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# ***Illustrated Parts Manual***

## ***Model 1044C-54 Series II***

**SN 0160009654 to Present  
including 0160008714**

**31200069**

**February 15, 2023 - Rev O**







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## **SECTION 1 - FRAME AND ATTACHING PARTS**

## **SECTION 1 - FRAME AND ATTACHING PARTS**

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## 1044C-54 Series II





## SECTION 1 - FRAME AND ATTACHING PARTS

**FIGURE 1-1. MAIN FRAME ASSEMBLY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                | REV |
|------|-------------|-----|----------------------------------------------------------------------------------------------------------------------------|-----|
| 1    | 1001096074  | 1   | MAIN FRAME (SN 0160040413 through 0160051139, Including 0160037824 and 0160038521, Excluding 0160050734 and 0160050735)    | E   |
| 1    | 1001145161  | 1   | MAIN FRAME (SN 0160051140 to Present, Including 0160050734 and 0160050735)                                                 | D   |
| 2    | 10700784    | 10  | HEX HD CAPSCREW, 3/4-16X3-3/4, GR8, (loctite and torque to 465 lb-ft)                                                      |     |
| 3    | 3271501     | 4   | HEX NUT, 5/16-18, GR8                                                                                                      |     |
| 4    | 10701309    | 4   | LOCKWASHER, 5/16 (Prior to SN 0160040413, Excluding 0160037824 and 0160038521)                                             |     |
| 5    | 4711500     | 4   | WASHER, 5/16                                                                                                               |     |
| 6    |             | Ref | DOWEL PIN, 3/4X2, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                                         |     |
| 7    | 90027473    | 20  | HARDWASHER, 3/4                                                                                                            |     |
| 8    | 10701512    | 4   | HEX NUT, 5/8-11                                                                                                            |     |
| 9    | 10700104    | 4   | HEX HD CAPSCREW, 5/16-18X1 (Prior to SN 0160040413, Excluding 0160037824 and 0160038521)                                   |     |
| 9    | 0641507     | 4   | HEX HD CAPSCREW, 5/16-18X7/8, GR4 (SN 0160040413 to Present, Including 0160037824 and 0160038521)                          |     |
| 10   | 10236818    | 1   | GRILLE , (with latch) (SN 0160009654 through 0160040407, Excluding 0160037824 and 0160038521)                              |     |
| 10   | 1001113283  | 1   | GRILLE , (without latch) (SN 0160040413 to Present, Including 0160037824 and 0160038521)                                   |     |
| 11   | 10116228    | 4   | CYLINDER BUSHING                                                                                                           |     |
| 12   | 10732689    | 4   | GREASE FITTING COVER                                                                                                       |     |
| 13   | 10716611    | 4   | GREASE FITTING                                                                                                             |     |
| 14   | 4761800     | 4   | WASHER, 1/2                                                                                                                |     |
| 15   | 3423197     | 2   | FRAME TILT AND OSCILLATION LOCK CYLINDER PIN, (lower)                                                                      |     |
| 16   | 3841709     | 2   | LOCK PIN                                                                                                                   |     |
| 17   | 0641810     | 2   | HEX HD CAPSCREW, 1/2-13X1-1/4                                                                                              |     |
| 18   | 10701312    | 8   | LOCKWASHER, 1/2                                                                                                            |     |
| 19   | 10124732    | 2   | FRAME TILT AND OSCILLATION LOCK CYLINDER PIN, (upper)                                                                      |     |
| 20   | 10701508    | 4   | HEX NUT, 3/8-16                                                                                                            |     |
| 21   | 10701310    | 4   | LOCKWASHER, 3/8                                                                                                            |     |
| 22   | 0641832     | 2   | HEX HD CAPSCREW, 1/2-13X4                                                                                                  |     |
| 23   | 10701510    | 10  | HEX NUT, 1/2-13                                                                                                            |     |
| 24   | 3282201     | 10  | HEX NUT, 3/4-16, GR8                                                                                                       |     |
| 25   | 4341026     | 1   | SUBFRAME - 4 CYLINDER ENGINE (SN 0160009654 through 0160040407)                                                            |     |
| 25   | 1001096419  | 1   | SUBFRAME - 4 CYLINDER ENGINE (SN 0160040413 to Present, Including 0160037824 and 0160038521)                               |     |
| 26   | 10338513    | 1   | MIRROR BRACKET                                                                                                             |     |
| 27   | 10700205    | 4   | HEX HD CAPSCREW, 3/8-16X1-1/4                                                                                              |     |
| 28   | 10700107    | 1   | HEX HD CAPSCREW, 5/16-16X1-3/4 (SN 0160009654 through 0160011418, Including 0160008714)                                    |     |
| 29   | 10701309    | 1   | LOCKWASHER, 5/16 (SN 0160009654 through 0160011418, Including 0160008714)                                                  |     |
| 30   | 10837299    | 1   | END CAP PLUG (SN 0160009654 through 0160011418, Including 0160008714)                                                      |     |
| 31   | N.S.S.      | NLA | CONVEX MIRROR , (no longer available, use Kit K1 for replacement) (SN 0160009654 through 0160011418, Including 0160008714) |     |
| 32   | 8866348     | 1   | CONVEX MIRROR, (includes mounting hardware) (SN 0160011439                                                                 |     |

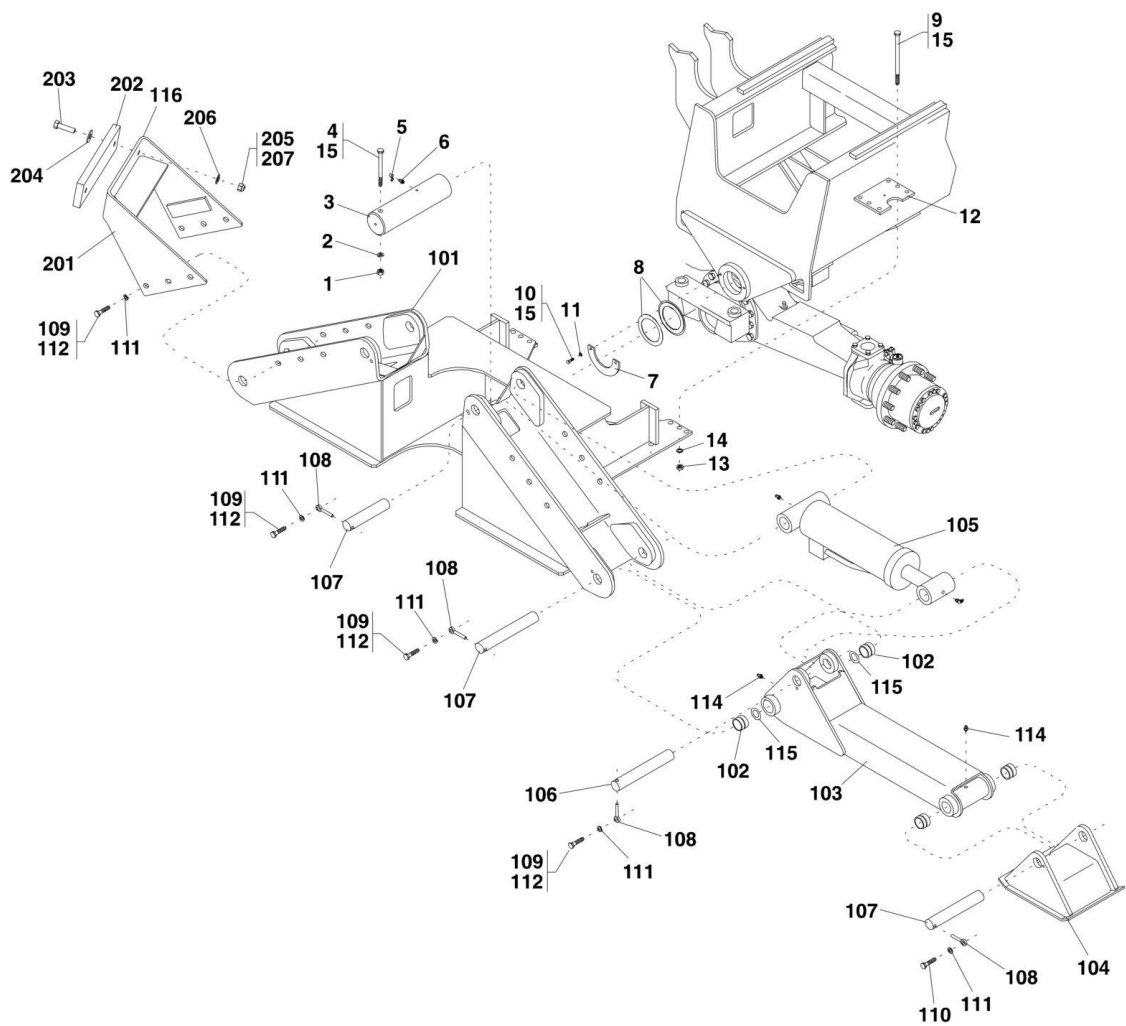
## SECTION 1 - FRAME AND ATTACHING PARTS

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                         | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------------------------|-----|
|      |             |     | <b>to Present)</b>                                                                                                  |     |
| 32   | 88521005    | 1   | LOCKNUT, 5/16                                                                                                       |     |
| 32   | 88551010    | 2   | LOCKWASHER, 5/16                                                                                                    |     |
| 33   | 10700404    | 8   | HEX HD CAPSCREW, 1/2-13X1-1/2                                                                                       |     |
| 34   |             | Ref | REAR STABILIZER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                          |     |
| 35   |             | Ref | FRONT AXLE ASSY, (See DRIVE TRAIN SECTION for Breakdown)                                                            |     |
| 36   |             | Ref | FRAME TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                               |     |
| 37   |             | Ref | REAR AXLE ASSY, (See DRIVE TRAIN SECTION for Breakdown)                                                             |     |
| 38   | 4341020     | 1   | TRANSMISSION MOUNT WELDMENT                                                                                         |     |
| 39   | 0642018     | 4   | HEX HD CAPSCREW, 5/8-11X2-1/4, GR5 <b>(Prior to SN 0160051140)</b>                                                  |     |
| 39   | 10700605    | 4   | HEX HD CAPSCREW, 5/8-11X2-1/4, GR5 <b>(SN 0160051140 to Present, Including 0160050734 and 0160050735)</b>           |     |
| 40   | 4752000     | 8   | PLAIN WASHER, 5/8 <b>(Prior to SN 0160051140)</b>                                                                   |     |
| 40   | 10701408    | 6   | PLAIN WASHER, 5/8 <b>(SN 0160051140 to Present, Including 0160050734 and 0160050735)</b>                            |     |
| 41   | 4762000     | 6   | LOCKWASHER, 5/8 <b>(Prior to SN 0160051140)</b>                                                                     |     |
| 41   | 10701314    | 6   | PLAIN WASHER, 5/8 <b>(SN 0160051140 to Present, Including 0160050734 and 0160050735)</b>                            |     |
| 42   |             | Ref | TANK SUPPORT MOUNT, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                                |     |
| 43   | 0100071     | AR  | LOCTITE 262, (apply to item 2 & 39 ) <b>(SN 0160009654 through 0160040407, Excluding 0160037824 and 0160038521)</b> |     |
| 43   | 0100011     | AR  | LOCTITE 242, (apply to item 2 & 39 ) <b>(SN 0160040413 to Present, Including 0160037824 and 0160038521)</b>         |     |
| 44   | 10700703    | 2   | HEX HD CAPSCREW, 3/4-10X2-1/4, GR5                                                                                  |     |
| 45   | 10701315    | 2   | LOCKWASHER, 3/4                                                                                                     |     |
| 46   | 10717809    | 2   | CLAMP                                                                                                               |     |
| 47   |             | Ref | VALVE PLATE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                                       |     |
| K1   | 10732579    | 1   | CONVEX MIRROR SERVICE KIT, (includes item 32)                                                                       |     |



SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-2. OUTRIGGER ASSEMBLY



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## SECTION 1 - FRAME AND ATTACHING PARTS

**FIGURE 1-2. OUTRIGGER ASSEMBLY**

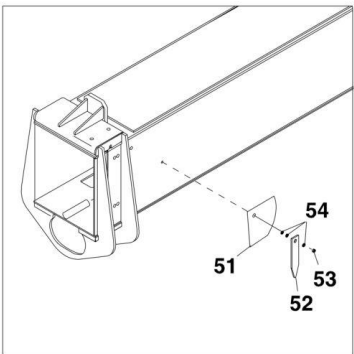
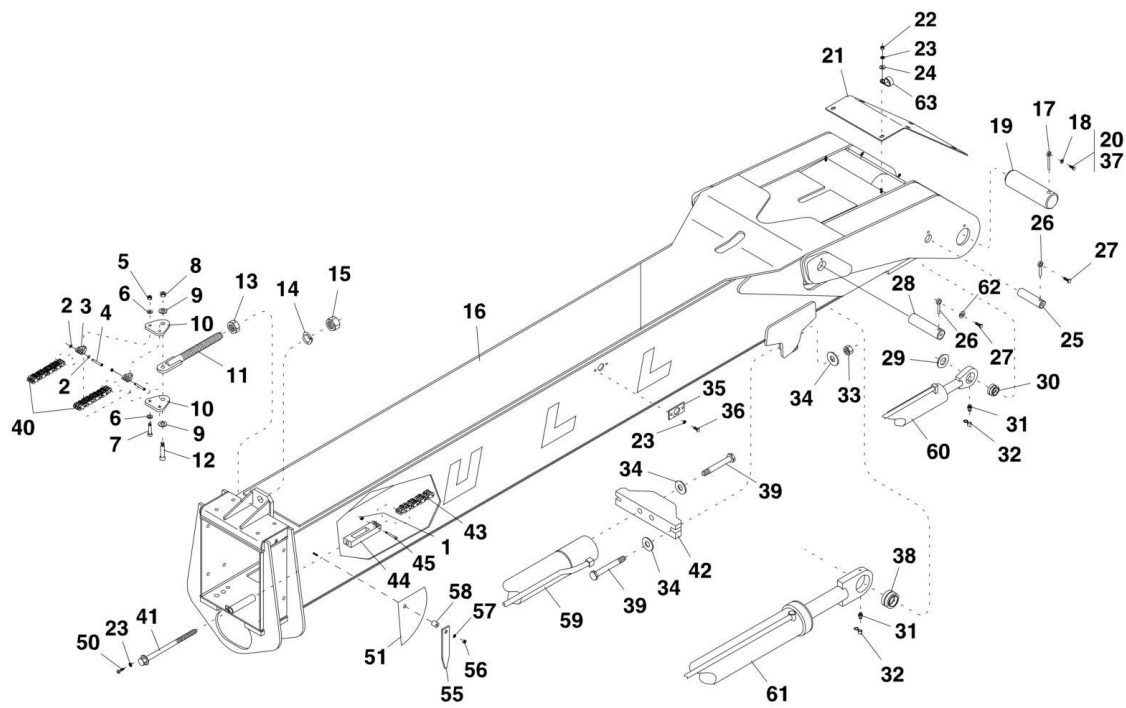
| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                           | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------|-----|
| 1    | 3312201     | 1   | HEX NUT, 3/4-10                                                                       | E   |
| 2    | 4762200     | 1   | WASHER, 3/4                                                                           |     |
| 3    | 3423213     | 1   | CENTER SHAFT                                                                          |     |
| 4    | 0642256     | 1   | HEX HD CAPSCREW, 3/4-10X7                                                             |     |
| 5    | 10732689    | 1   | GREASE FITTING COVER                                                                  |     |
| 6    | 10715272    | 1   | GREASE FITTING, 1/8                                                                   |     |
| 7    | 10167750    | 1   | BUSHING RETAINER                                                                      |     |
| 8    | 10139945    | AR  | SHIM, 16 GA                                                                           |     |
| 8    | 10139946    | AR  | SHIM, 20 GA                                                                           |     |
| 8    | 10139947    | AR  | SHIM, 24 GA                                                                           |     |
| 9    | 8310475     | 12  | HEX HD CAPSCREW, 3/4-10X10, GR8                                                       |     |
| 10   | 0641608     | 2   | HEX HD CAPSCREW, 3/8-16X3/4                                                           |     |
| 11   | 4761600     | 2   | WASHER, 3/8                                                                           |     |
| 12   | 3575851     | 2   | MOUNTING PLATE                                                                        |     |
| 13   | 3272205     | 12  | HEX NUT, 3/4-10, GR8                                                                  |     |
| 14   | 8307703     | 12  | PLAIN WASHER, 3/4                                                                     |     |
| 15   | 0100011     | AR  | LOCTITE 242, (apply to item 2, 9 & 10)                                                | AE  |
|      | 4210021     | Ref | OUTRIGGER ASSY, (includes items 101 thru 116 & items 3, 4 & 24 on HYDRAULIC CIRCUITS) |     |
| 101  | 4210020     | 1   | OUTRIGGER FRAME                                                                       |     |
| 102  | 10116228    | 8   | BUSHING                                                                               |     |
| 103  | 10239253    | 2   | OUTRIGGER LEG ASSY, (includes qty 4 of item 102 & qty 2 of item 114)                  |     |
| 104  | 10266234    | 2   | FOOT PAD                                                                              |     |
| 105  |             | Ref | OUTRIGGER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                  |     |
| 106  | 10165360    | 2   | OUTRIGGER CYLINDER PIN                                                                |     |
| 107  | 10165359    | 6   | OUTRIGGER LEG AND CYLINDER PIN                                                        |     |
| 108  | 10232432    | 8   | LOCK PIN                                                                              |     |
| 109  | 0642014     | 18  | HEX HD CAPSCREW, 5/8-11X1-3/4, (torque to 140-145 lb-ft)                              |     |
| 110  | 0642012     | 2   | HEX HD CAPSCREW, 5/8-11X1-1/2                                                         |     |
| 111  | 4762000     | 20  | WASHER, 5/8                                                                           |     |
| 112  | 0100011     | AR  | LOCTITE 242, (apply to item 109)                                                      |     |
| 114  | 10716611    | 2   | GREASE FITTING                                                                        | A   |
| 115  | 1101704     | AR  | SHIM, 14 GA                                                                           |     |
| 116  | 0903209     | 2   | OUTRIGGER STOP BRACKET ASSY, (includes items 201 thru 207)                            |     |
| 201  | 4220249     | 2   | STOP WELDMENT                                                                         |     |
| 202  | 4220248     | 2   | RUBBER PAD                                                                            |     |
| 203  | 0642019     | 4   | HEX HD CAPSCREW, 5/8-11X2-3/8, (torque to 10-20 lb-ft)                                |     |
| 204  | 4752000     | 4   | PLAIN WASHER, 5/8                                                                     |     |
| 205  | 8305643     | 4   | HEX LOCKNUT, 5/8-11                                                                   |     |
| 206  | 4712000     | 4   | PLAIN WASHER, 5/8                                                                     |     |
| 207  | 0100011     | AR  | LOCTITE 242, (apply to item 205)                                                      |     |



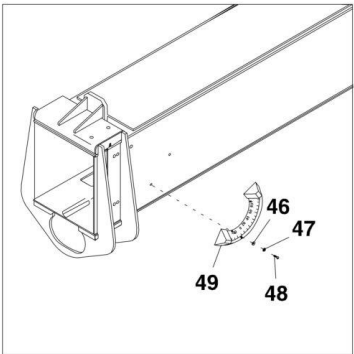
**SECTION 2 - BOOM**

SECTION 2 - BOOM

FIGURE 2-1. FIRST BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)



SN 0160014713 THROUGH 0160033170



SN 0160009654 THROUGH 0160014712  
INCLUDING 0160008714

PAP14860



## SECTION 2 - BOOM

**FIGURE 2-1. FIRST BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                       | REV |
|------|-------------|-----|-----------------------------------------------------------------------------------|-----|
| 1    | 10705000    | 1   | HEX LOCKNUT, 1/4-20                                                               |     |
| 2    | 8642237     | 4   | RETAINING RING                                                                    |     |
| 3    | 7139416     | 2   | ANCHOR CLEVIS                                                                     |     |
| 4    | 8124138     | 2   | CHAIN CLEVIS PIN                                                                  |     |
| 5    | 10701658    | 2   | HEX LOCKNUT, 3/8-16                                                               |     |
| 6    | 10701254    | 4   | FLAT WASHER, 1/2                                                                  |     |
| 7    | 10837753    | 2   | SHOULDER BOLT, 1/2X1-3/4                                                          |     |
| 8    | 10701662    | 1   | HEX LOCKNUT, 5/8-11                                                               |     |
| 9    | 10701257    | 2   | FLAT WASHER, 3/4                                                                  |     |
| 10   | 10265729    | 2   | CHAIN EQUALIZER                                                                   |     |
| 11   | 10238726    | 1   | CHAIN ADJUSTMENT ANCHOR                                                           |     |
| 12   | 10721439    | 1   | SHOULDER BOLT, 3/4X2                                                              |     |
| 13   | 10701567    | 1   | HEX JAM NUT, 1-1/4-7                                                              |     |
| 14   | 10701319    | 1   | LOCKWASHER, 1-1/4                                                                 |     |
| 15   | 10701517    | 1   | HEX NUT, 1-1/4-7                                                                  |     |
| 16   | 10438566    | 1   | FIRST BOOM SECTION                                                                |     |
| 17   | 10138806    | 2   | LOCK PIN                                                                          |     |
| 18   | 10701314    | 2   | LOCKWASHER, 5/8                                                                   |     |
| 19   | 10267799    | 2   | BOOM PIVOT PIN                                                                    |     |
| 20   | 10700605    | 2   | HEX CAPSCREW, 5/8-11X2-1/4                                                        |     |
| 21   | 10239098    | 1   | BOOM COVER                                                                        |     |
| 22   | 10701508    | 6   | HEX NUT, 3/8-16                                                                   |     |
| 23   | 10701310    | 8   | LOCKWASHER, 3/8                                                                   |     |
| 24   | 10701404    | 6   | FLAT WASHER, 3/8                                                                  |     |
| 25   | 10136240    | 2   | REAR CARRIAGE TILT CYLINDER PIN, (rod end)                                        |     |
| 26   | 3841203     | 4   | LOCK PIN                                                                          |     |
| 27   | 10700403    | 4   | HEX CAPSCREW, 1/2-13X1-1/4                                                        |     |
| 28   | 10136907    | 2   | HOIST CYLINDER PIN, (rod end)                                                     |     |
| 29   | 10701446    | AR  | FLAT WASHER                                                                       |     |
| 30   | 8050001     | 2   | REAR CARRIAGE TILT CYLINDER BUSHING, (rod end)                                    |     |
| 31   | 10716611    | 4   | GREASE FITTING                                                                    |     |
| 32   | 10732689    | 4   | GREASE FITTING COVER                                                              |     |
| 33   | 10701209    | 2   | HEX NUT, 1-8, GR8                                                                 |     |
| 34   | 10701259    | 4   | FLAT WASHER, 1                                                                    |     |
| 35   | 10139068    | 1   | PROXIMITY MOUNTING PLATE (SN 0160009654 through 0160032405, Including 0160008714) |     |
| 35   | 1001091370  | 1   | PROXIMITY MOUNTING PLATE (SN 0160032406 to Present)                               |     |
| 36   | 10700202    | 2   | HEX HD CAPSCREW, 3/8-16X3/4                                                       |     |
| 37   | 0100011     | AR  | LOCTITE 242, (apply to item 20)                                                   |     |
| 38   | 10718830    | 4   | HOIST CYLINDER BUSHING, (rod end)                                                 |     |
| 39   | 10700940    | 2   | HEX HD CAPSCREW, 1-8X6-1/2, GR8                                                   |     |
| 40   | 8127030     | 2   | UPPER CHAIN, (197.25in long)                                                      |     |
| 41   | 10138374    | 1   | ROD TENSIONER                                                                     |     |
| 42   | 10238512    | 1   | EXTENSION CYLINDER BASE MOUNT                                                     |     |
| 43   | 10138745    | 1   | LOWER CHAIN, (167.25in long)                                                      |     |
| 44   | 10238723    | 1   | ADJUSTMENT BLOCK CHAIN                                                            |     |
| 45   | 10727310    | 1   | SHOULDER BOLT, 1/2 DIA X2                                                         |     |
| 46   | 10701430    | 2   | FLAT WASHER, #8 (SN 0160009654 through 0160014712, Including 0160008714)          |     |
| 47   | 10701354    | 2   | STAR WASHER, #8 (SN 0160009654 through 0160014712,                                |     |

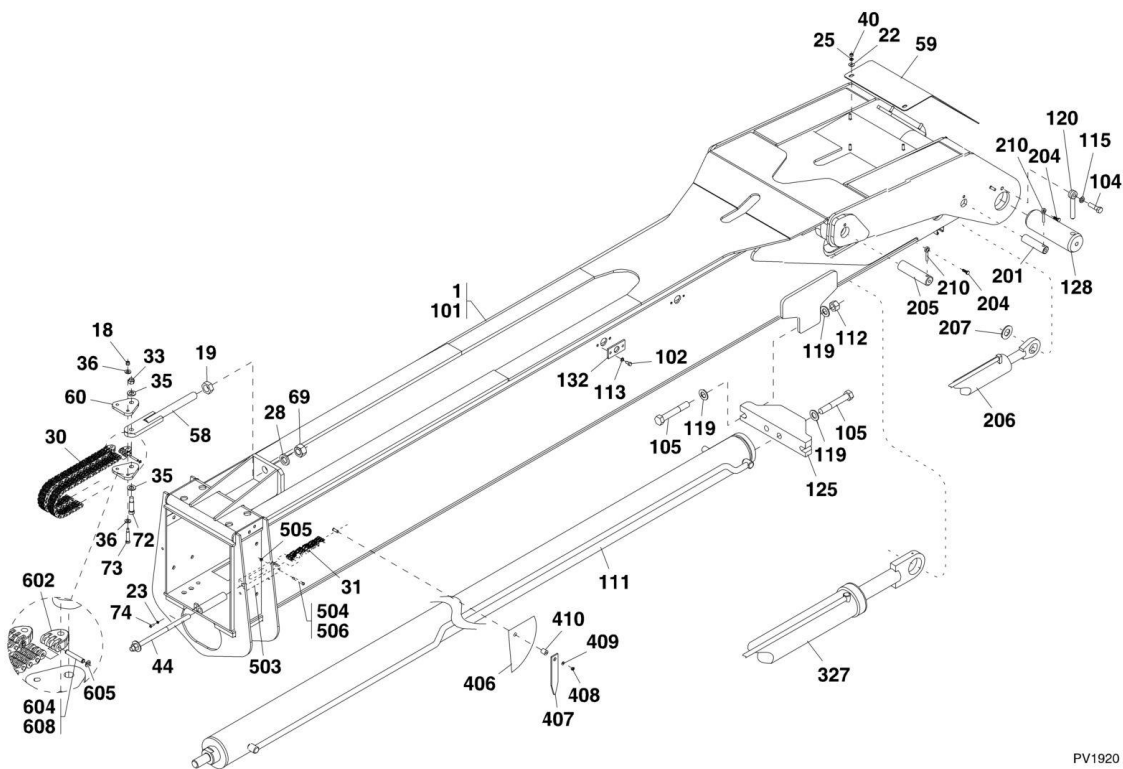
## SECTION 2 - BOOM

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                | REV |
|------|-------------|-----|----------------------------------------------------------------------------------------------------------------------------|-----|
| 48   | 10702034    | 2   | <b>Including 0160008714)</b><br>ROUND HD SLOTTED SCREW, #8-32X1/2 (SN 0160009654 through 0160014712, Including 0160008714) |     |
| 49   | 10238252    | 1   | BOOM ANGLE INCLINOMETER (SN 0160009654 through 0160014712, Including 0160008714)                                           |     |
| 50   | 10703194    | 1   | BUTTON HD SOCKET CAPSCREW, 1/4-20X1/2                                                                                      |     |
| 51   | 4105262     | 1   | BOOM ANGLE INDICATOR DECAL (SN 0160014713 to Present)                                                                      |     |
| 52   | 7075611     | 1   | BOOM ANGLE INDICATOR POINTER (SN 0160014713 through 0160033170)                                                            |     |
| 53   | 8305647     | 1   | HEX LOCK NUT, 7/16-14 (SN 0160014713 through 0160033170)                                                                   |     |
| 54   | 8307113     | 3   | PLAIN WASHER, 7/16 (SN 0160014713 through 0160033170)                                                                      |     |
| 55   | 1001098769  | 1   | BOOM ANGLE INDICATOR POINTER (SN 0160033171 to Present)                                                                    |     |
| 56   | 8305645     | 1   | HEX LOCK NUT, 3/8-16 (SN 0160033171 to Present)                                                                            |     |
| 57   | 4711600     | 1   | PLAIN WASHER, 3/8 (SN 0160033171 to Present)                                                                               |     |
| 58   | 1001096404  | 1   | ANGLE INDICATOR SPACER (SN 0160033171 to Present)                                                                          |     |
| 59   |             | Ref | BOOM EXTENSION CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                                  |     |
| 60   |             | Ref | REAR CARRIAGE TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                              |     |
| 61   |             | Ref | HOIST CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                                           |     |
| 62   | 10701312    | 4   | LOCKWASHER, 1/2                                                                                                            |     |
| 63   | 10717554    | 4   | CLAMP, 3/8                                                                                                                 |     |



SECTION 2 - BOOM

FIGURE 2-2. FIRST BOOM SECTION (SN 0160037900 to Present, Including 0160037855)



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## SECTION 2 - BOOM

**FIGURE 2-2. FIRST BOOM SECTION (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                             | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------------|-----|
| 1    | 1001103578  | Ref | FIRST BOOM SECTION SUB ASSY, (Single Aux), (not available to order, see items 101 thru 132 for service) | C   |
| 1    | 1001103583  | Ref | FIRST BOOM SECTION SUB ASSY, (Dual Aux), (not available to order, see items 101 thru 132 for service)   | C   |
| 18   | 3300143     | 2   | WHEEL NUT                                                                                               |     |
| 19   | 3313002     | 1   | HEX JAM NUT, 1-1/4-7                                                                                    |     |
| 22   | 4751600     | 6   | FLAT WASHER, 3/8                                                                                        |     |
| 23   | 4761400     | 1   | LOCKWASHER, 5/16                                                                                        |     |
| 25   | 4761600     | 6   | LOCKWASHER, 3/8                                                                                         |     |
| 28   | 4763000     | 1   | LOCKWASHER, 1-1/4                                                                                       |     |
| 30   |             | Ref | CHAIN AND CLEVIS ASSY, (See THIRD BOOM SECTION for Breakdown)                                           |     |
| 31   |             | Ref | CHAIN AND CLEVIS ASSY, (See THIRD BOOM SECTION for Breakdown)                                           |     |
| 33   | 8305643     | 1   | LOCKNUT, 5/8-11                                                                                         |     |
| 35   | 8307703     | 2   | FLAT WASHER, 3/4                                                                                        |     |
| 36   | 8310056     | 4   | FLAT WASHER, 1/2                                                                                        |     |
| 40   | 8310454     | 6   | HEX NUT, 3/8-16                                                                                         |     |
| 44   | 10138374    | 1   | TENSIONER ASSY                                                                                          |     |
| 58   | 10238726    | 1   | EQUALIZER CHAIN ANCHOR                                                                                  |     |
| 59   | 10239098    | 1   | BOOM COVER                                                                                              |     |
| 60   | 10265729    | 2   | EQUALIZER BAR                                                                                           |     |
| 69   | 10701517    | 1   | HEX NUT, 1-1/4-7                                                                                        |     |
| 72   | 10721439    | 1   | SHOULDER BOLT, 3/4X2                                                                                    |     |
| 73   | 10837753    | 2   | SHOULDER BOLT, 1/2X2                                                                                    |     |
| 74   | 88261014    | 1   | BUTTON HD CAPSCREW, 1/4-20X1/2                                                                          |     |
| 101  | 10438566    | 1   | FIRST BOOM SECTION WELDMENT                                                                             |     |
| 102  | 0641606     | 2   | HEX HD CAPSCREW, 3/8-16X3/4, GR5                                                                        |     |
| 104  | 0642018     | 2   | HEX HD CAPSCREW, 5/8-11X2-1/4, GR5                                                                      |     |
| 105  | 0682652     | 4   | HEX HD CAPSCREW, 1/8X6-1/2, GR5                                                                         |     |
| 111  |             | Ref | BOOM EXTENSION CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                               |     |
| 112  | 3272601     | 2   | HEX NUT, 1-8                                                                                            |     |
| 113  | 4761600     | 2   | LOCKWASHER, 3/8                                                                                         |     |
| 115  | 4762000     | 2   | LOCKWASHER, 5/8                                                                                         |     |
| 119  | 8310061     | 6   | FLAT WASHER, 1                                                                                          |     |
| 120  | 10138806    | 2   | LOCK PIN, 3/4                                                                                           |     |
| 125  | 10238512    | 1   | CYLINDER SUPPORT LUG                                                                                    |     |
| 128  | 10267799    | 2   | FRONT SHEAVE CHAIN PIN                                                                                  |     |
| 132  | 1001091370  | 1   | PROXIMITY SWITCH MOUNT PLATE                                                                            |     |
| 201  | 10136240    | 2   | TILT CYLINDER PIN                                                                                       |     |
| 204  | 0641810     | 4   | HEX HD CAPSCREW, 1/2-13X1-1/4, GR5                                                                      |     |
| 205  | 10136907    | 2   | HOIST CYLINDER PIN                                                                                      |     |
| 206  |             | Ref | REAR CARRIAGE TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                           |     |
| 207  | 4713400     | AR  | FLAT WASHER, 1-1/2                                                                                      |     |
| 210  | 3841203     | 4   | ROD WIPER                                                                                               |     |
| 327  |             | Ref | HOIST CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                        |     |
| 406  | 4105262     | 1   | BOOM ANGLE INDICATOR DECAL                                                                              |     |
| 407  | 1001098769  | 1   | BOOM ANGLE INDICATOR PLATE                                                                              |     |

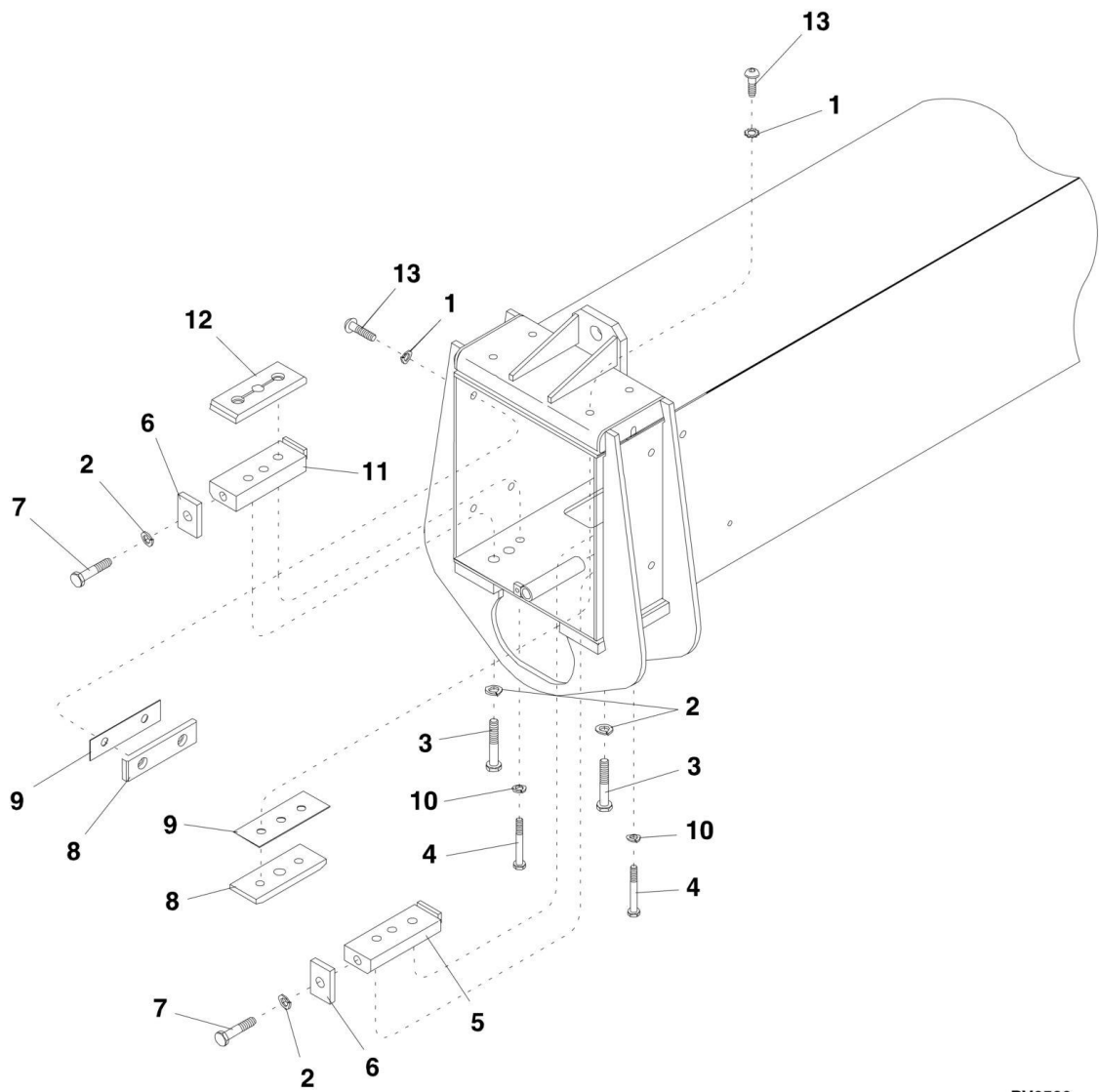
## SECTION 2 - BOOM

| ITEM | PART NUMBER | QTY | DESCRIPTION         | REV |
|------|-------------|-----|---------------------|-----|
| 408  | 8305645     | 1   | HEX LOCKNUT, 3/8-16 |     |
| 409  | 4711600     | 1   | FLAT WASHER, 3/8    |     |
| 410  | 1001096404  | 1   | SPACER              |     |
| 503  | 10238723    | 1   | CHAIN ANCHOR        |     |
| 504  | 10727310    | 1   | BOLT, 5/16X2        |     |
| 505  | 10705000    | 1   | LOCKNUT, 1/4-20     |     |
| 506  | 8522012     | AR  | ANTI-SEIZE LUBE     |     |
| 602  | 7139416     | 2   | ANCHOR CLEVIS       |     |
| 604  | 8124138     | 2   | CHAIN CLEVIS PIN    |     |
| 605  | 8642237     | 4   | RETAINING RING      |     |
| 608  | 8522012     | AR  | ANTI-SEIZE LUBE     |     |



SECTION 2 - BOOM

FIGURE 2-3. BEARING PADS, SPACERS AND SHIMS, (FIRST BOOM SECTION) (Prior to SN 0160037900, Excluding 0160037855)



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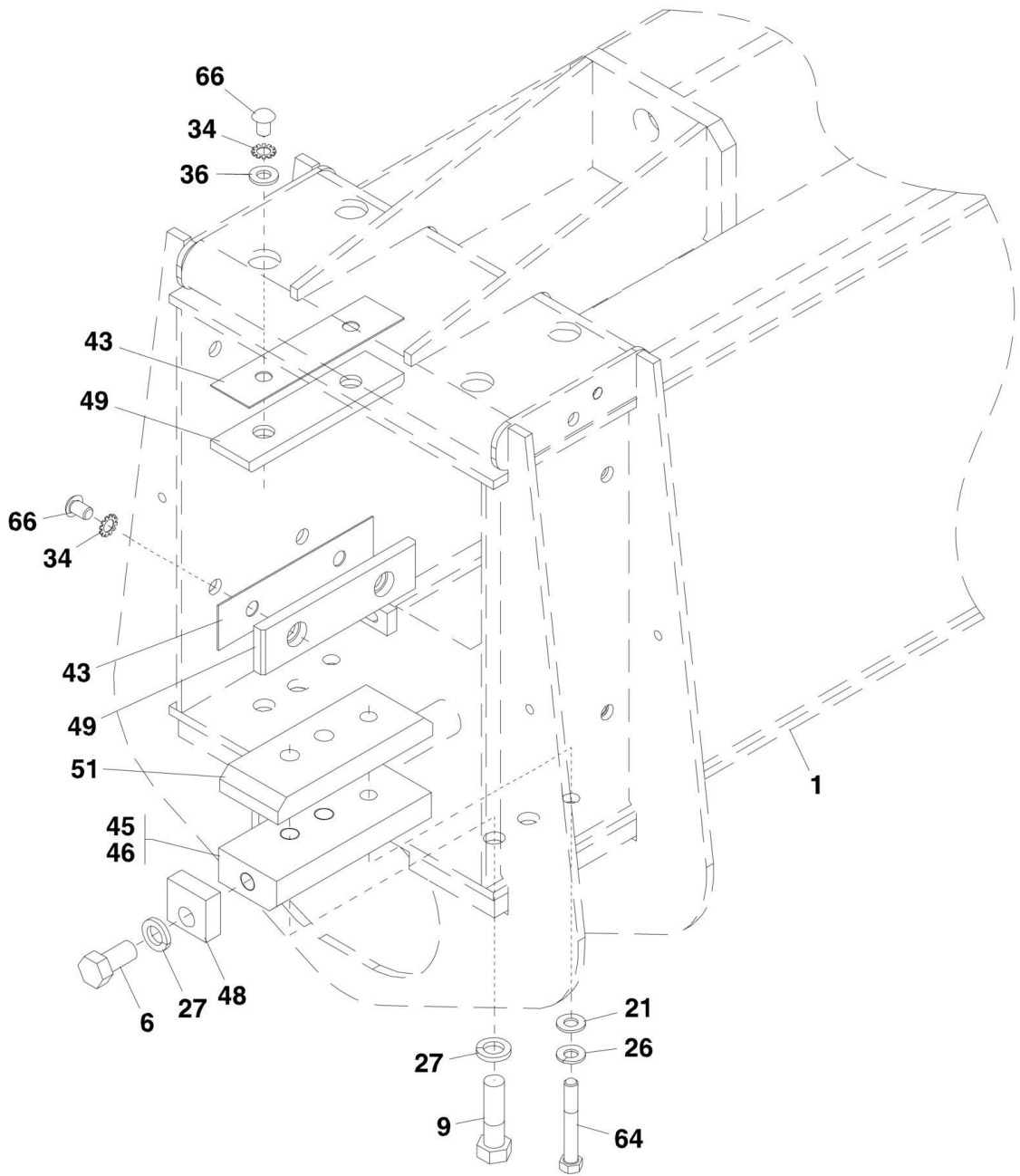
## SECTION 2 - BOOM

**FIGURE 2-3. BEARING PADS, SPACERS AND SHIMS, (FIRST BOOM SECTION) (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                             | REV |
|------|-------------|-----|-----------------------------------------|-----|
| 1    | 10701361    | 12  | STAR WASHER, 1/2                        |     |
| 2    | 10701315    | 6   | LOCKWASHER, 3/4                         |     |
| 3    | 10700730    | 2   | HEX HD CAPSCREW, 3/4-10X2-3/4           |     |
| 4    | 10700489    | 4   | HEX HD CAPSCREW, 1/2-20X3-1/2, GR8      |     |
| 5    | 10138615    | 1   | LH RETAINER BLOCK PAD                   |     |
| 6    | 10138773    | 2   | PAD RETAINER, ALUMINUM                  |     |
| 7    | 10700700    | 2   | HEX HD CAPSCREW, 3/4-10X1-1/2           |     |
| 8    | 10139023    | 6   | BOOM SLIDE PAD, (9/16X2 wide)           |     |
| 9    | 10136329    | AR  | SHIM, 16 GA, (.060X2 wide)              |     |
| 10   | 10701312    | 2   | LOCKWASHER, 1/2                         |     |
| 11   | 10138721    | 1   | RH RETAINER BLOCK PAD                   |     |
| 12   | 10139530    | 2   | BOOM SLIDE PAD, (1X3 wide)              |     |
| 13   | 10703236    | AR  | SOCKET BUTTON HD CAPSCREW, 1/2-20X3/4   |     |
| 13   | 10703237    | AR  | SOCKET BUTTON HD CAPSCREW, 1/2-20X1     |     |
| 13   | 10703242    | AR  | SOCKET BUTTON HD CAPSCREW, 1/2-20X1-1/4 |     |

SECTION 2 - BOOM

FIGURE 2-4. BEARING PADS, SPACERS AND SHIMS, (FIRST BOOM SECTION) (SN 0160037900 to Present, Including 0160037855)



NOTE: USE LOCTITE® 242TM (0100011) ON ALL BOLT THREADS.

PV01880

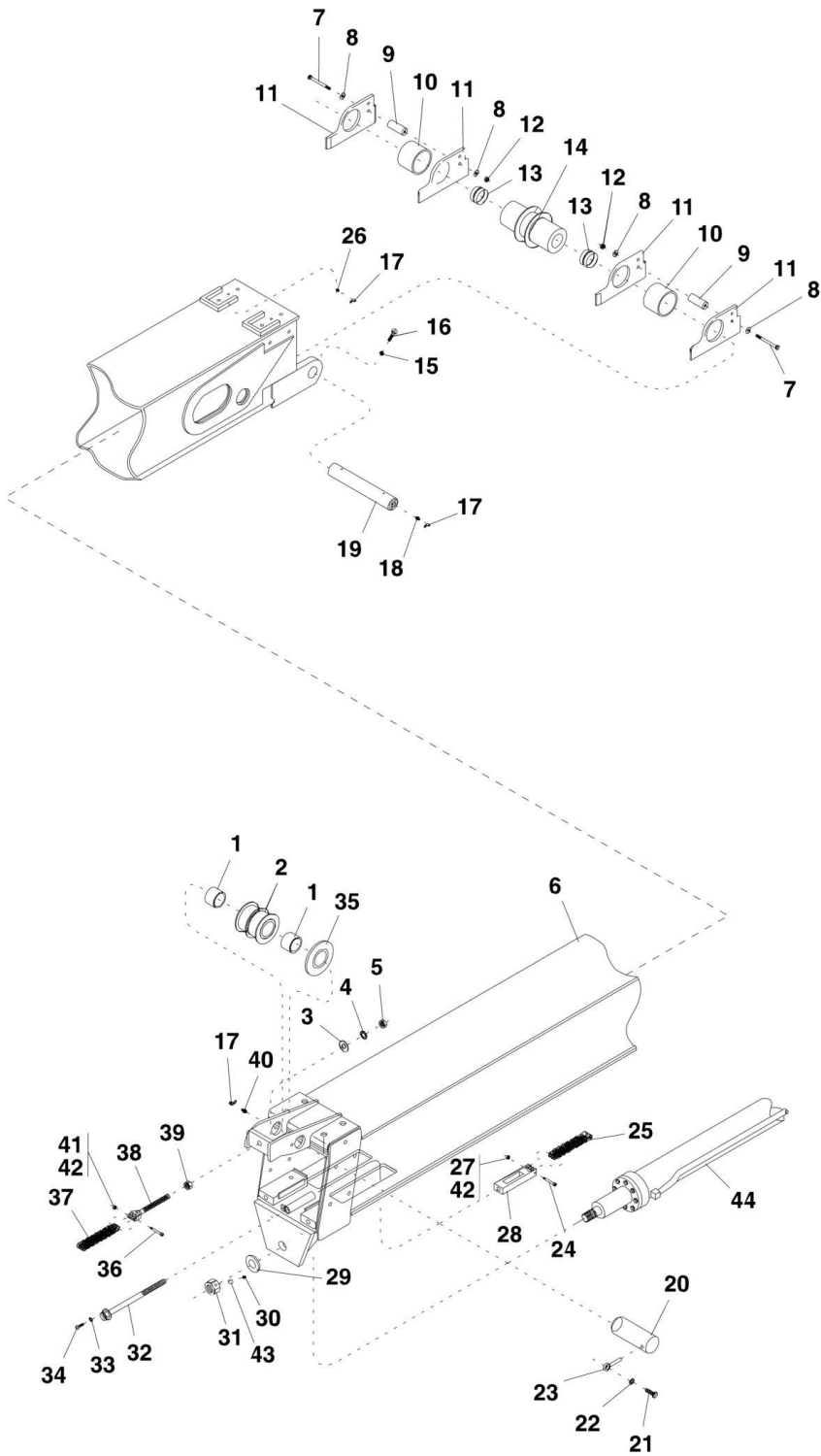
## SECTION 2 - BOOM

**FIGURE 2-4. BEARING PADS, SPACERS AND SHIMS, (FIRST BOOM SECTION) (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                         | REV |
|------|-------------|-----|---------------------------------------------------------------------|-----|
| 1    |             | Ref | FIRST BOOM SECTION WELDMENT, (See FIRST BOOM SECTION for Breakdown) |     |
| 6    | 0642212     | 2   | HEX HD CAPSCREW, 3/4-10X1-1/2, GR5                                  |     |
| 9    | 0682222     | 4   | HEX HD CAPSCREW, 3/4-10X2-3/4, GR8                                  |     |
| 21   | 4711800     | 2   | FLAT WASHER, 1/2                                                    |     |
| 26   | 4761800     | 2   | LOCKWASHER, 1/2                                                     |     |
| 27   | 4762200     | 6   | LOCKWASHER, 3/4                                                     |     |
| 34   | 8307028     | 12  | LOCKWASHER, 1/2, (external tooth)                                   |     |
| 36   | 8310056     | 4   | FLAT WASHER, 1/2                                                    |     |
| 43   | 10136329    | AR  | SHIM, (.06)                                                         |     |
| 45   | 10138615    | 1   | LH PAD SPACER                                                       |     |
| 46   | 10138721    | 1   | RH PAD SPACER                                                       |     |
| 48   | 10138773    | 2   | PAD RETAINER                                                        |     |
| 49   | 10139023    | 6   | BOOM PAD                                                            |     |
| 51   | 10139530    | 2   | BOOM PAD                                                            |     |
| 64   | 10700489    | 2   | HEX HD CAPSCREW, 1/2-20X1-1/2, GR8                                  |     |
| 66   | 10703236    | 12  | BUTTON HD CAPSCREW, 1/2-20X3/4, GR8                                 |     |
| 66   | 10703237    | 12  | BUTTON HD CAPSCREW, 1/2-20X1, GR8                                   |     |
| 66   | 10703242    | 12  | BUTTON HD CAPSCREW, 1/2-20X1-1/4, GR8                               |     |
| 101  | 0100011     | AR  | LOCTITE 242                                                         |     |

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FIGURE 2-5. SECOND BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)



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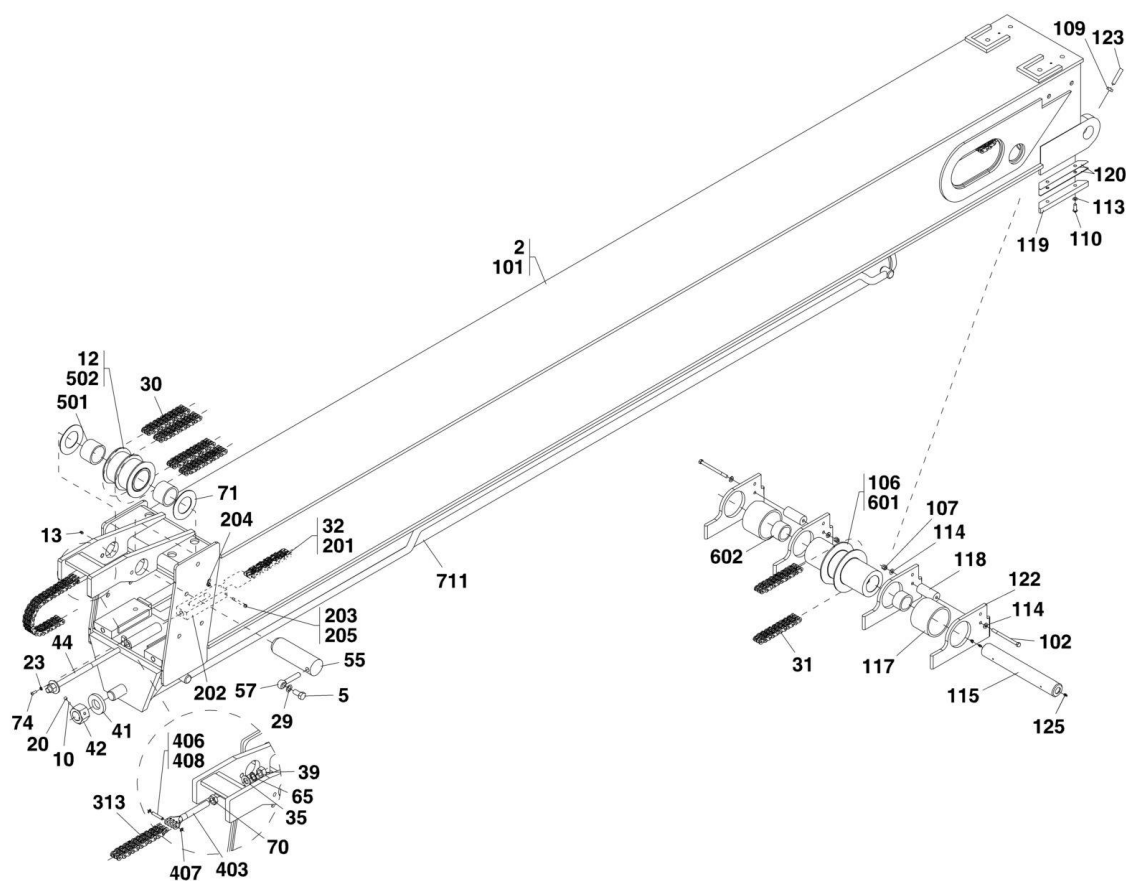
## SECTION 2 - BOOM

**FIGURE 2-5. SECOND BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                               | REV |
|------|-------------|-----|---------------------------------------------------------------------------|-----|
| 1    | 10165692    | 2   | CHAIN ROLLER, GARLOCK BUSHING                                             |     |
| 2    | 10265755    | 1   | CHAIN ROLLER                                                              |     |
| 3    | 10701257    | 1   | FLAT WASHER, 3/4                                                          |     |
| 4    | 10701364    | 1   | STAR WASHER, 3/4                                                          |     |
| 5    | 10701232    | 1   | HEX NUT, 3/4-16                                                           |     |
| 6    | 10438565    | 1   | SECOND BOOM SECTION, (rear)                                               |     |
| 7    | 10700218    | 2   | HEX HD CAPSCREW, 3/8-16X5                                                 |     |
| 8    | 10701277    | 4   | FLAT WASHER, 3/8                                                          |     |
| 9    | 10139849    | 2   | ROLLER                                                                    |     |
| 10   | 10139838    | 2   | PLASTIC BUSHING                                                           |     |
| 11   | 10239832    | 4   | HOSE GUIDE                                                                |     |
| 12   | 10705002    | 2   | HEX LOCKNUT, 3/8-16                                                       |     |
| 13   | 10165723    | 2   | CHAIN AND HOSE ROLLER BUSHING, GARLOCK                                    |     |
| 14   | 1101674     | 1   | CHAIN AND HOSE ROLLER, (includes item 13)                                 |     |
| 15   | 10701560    | 1   | HEX JAM NUT, 1/2-13                                                       |     |
| 16   | 10702757    | 1   | SQUARE HD SETSCREW, CUP PT, 1/2-13X1-3/4                                  |     |
| 17   | 10732689    | 5   | GREASE FITTING COVER                                                      |     |
| 18   | 10716611    | 2   | GREASE FITTING, 1/8                                                       |     |
| 19   | 10136174    | 1   | CHAIN AND HOSE ROLLER SHAFT                                               |     |
| 20   | 10165263    | 1   | CHAIN ROLLER PIN                                                          |     |
| 21   | 10700601    | 1   | HEX HD CAPSCREW, 5/8-13X1-1/4                                             |     |
| 22   | 10701363    | 1   | STAR WASHER, 5/8                                                          |     |
| 23   | 10232432    | 1   | LOCK PIN, 5/8                                                             |     |
| 24   | 10727310    | 1   | SHOULDER BOLT, 5/16 DIA X2                                                |     |
| 25   | 8127023     | 1   | LEAF CHAIN, (165.75in long)                                               |     |
| 26   | 10715367    | 2   | GREASE FITTING, 45, 1/4                                                   |     |
| 27   | 10705000    | 1   | HEX LOCKNUT, 1/4-20                                                       |     |
| 28   | 10238723    | 1   | CHAIN ADJUSTMENT BLOCK                                                    |     |
| 29   | 10113599    | 1   | TOGGLE PLATE BOSS                                                         |     |
| 30   | 10702612    | 2   | SOCKET HD SETSCREW, CUP PT., 3/8-16X3/8                                   |     |
| 31   | 10116369    | 1   | EXTENSION CYLINDER ROD NUT                                                |     |
| 32   | 10138374    | 1   | CHAIN ADJUSTMENT ROD                                                      |     |
| 33   | 10701308    | 1   | LOCKWASHER, 1/4                                                           |     |
| 34   | 10703194    | 1   | SOCKET BUTTON HD CAPSCREW, 1/4-20X1/2                                     |     |
| 35   | 10720431    | 1   | SPECIAL WASHER                                                            |     |
| 36   | 8124138     | 1   | CLEVIS PIN                                                                |     |
| 37   | 10165712    | 1   | LEAF CHAIN, (195.75in long)                                               |     |
| 38   | 7139032     | 1   | ANCHOR CLEVIS                                                             |     |
| 39   | 10701586    | 1   | JAM NUT, 3/4-16                                                           |     |
| 40   | 10715272    | 1   | GREASE FITTING, 1/8                                                       |     |
| 41   | 8642237     | 1   | RETAINING RING                                                            |     |
| 42   | 8522012     | AR  | ANTI-SEIZE LUBE, (apply to items 27 & 41)                                 |     |
| 43   | 1100417     | 2   | LEAD BALL                                                                 |     |
| 44   |             | Ref | BOOM EXTENSION CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |

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FIGURE 2-6. SECOND BOOM SECTION (SN 0160037900 to Present, Including 0160037855)



PAP14710

## SECTION 2 - BOOM

**FIGURE 2-6. SECOND BOOM SECTION (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                              | REV |
|------|-------------|-----|----------------------------------------------------------------------------------------------------------|-----|
| 2    | 1001103579  | Ref | SECOND BOOM SECTION SUB ASSY, (Single Aux), (not available to order, see items 101 thru 125 for service) | C   |
| 2    | 1001103584  | Ref | SECOND BOOM SECTION SUB ASSY, (Dual Aux), (not available to order, see items 101 thru 125 for service)   | C   |
| 5    | 0642010     | 1   | HEX HD CAPSCREW, 5/8-11X1-1/4, GR5                                                                       | B   |
| 10   | 1100417     | 2   | LEAD BALL                                                                                                |     |
| 12   | 1101672     | 1   | CHAIN SHEAVE SUB ASSY, (includes items 501 & 502)                                                        |     |
| 13   | 2160002     | 1   | GREASE FITTING, 1/8, (straight)                                                                          |     |
| 20   | 3951603     | 2   | SET SCREW, 3/8X3/8                                                                                       |     |
| 23   | 4761400     | 1   | LOCKWASHER, 1/4                                                                                          |     |
| 29   | 4792000     | 1   | STAR WASHER, 5/8                                                                                         |     |
| 30   |             | Ref | CHAIN AND CLEVIS ASSY, (See THIRD BOOM SECTION for Breakdown)                                            |     |
| 31   |             | Ref | CHAIN AND CLEVIS ASSY, (See THIRD BOOM SECTION for Breakdown)                                            |     |
| 32   | 7139775     | 1   | CHAIN AND CLEVIS ASSY, (includes items 201 thru 205)                                                     |     |
| 35   | 8307703     | 1   | FLAT WASHER, 3/4                                                                                         | B   |
| 39   | 8310450     | 1   | HEX NUT, 3/4-16                                                                                          |     |
| 41   | 10113599    | 1   | TOGGLE PLATE                                                                                             |     |
| 42   | 10116369    | 1   | SPECIAL HEX NUT                                                                                          |     |
| 44   | 10138374    | 1   | TENSIONER ASSY                                                                                           |     |
| 55   | 10165263    | 1   | CHAIN SHEAVE PIN                                                                                         |     |
| 57   | 10232432    | 1   | PIN LOCK                                                                                                 |     |
| 65   | 10701364    | 1   | HEX NUT, 3/4-16                                                                                          |     |
| 70   | 10701586    | 1   | HEX JAM NUT, 3/4-16                                                                                      |     |
| 71   | 10720431    | AR  | SHIM WASHER                                                                                              |     |
| 74   | 88261014    | 1   | BUTTON HD CAPSCREW, 1/4-20X1/2                                                                           | AA  |
| 101  | 10438565    | 1   | SECOND BOOM SECTION WELDMENT                                                                             |     |
| 102  | 0641640     | 2   | HEX HD CAPSCREW, 3/8-16X5, GR5                                                                           |     |
| 106  | 1101674     | 1   | CHAIN/HOSE ROLLER ASSY, (includes items 601 & 602)                                                       |     |
| 107  | 3300143     | 2   | WHEEL NUT                                                                                                |     |
| 109  | 3311802     | 1   | HEX JAM NUT, 1/2-13                                                                                      |     |
| 110  | 3900316     | 4   | SOCKET BUTTON HD CAPSCREW, 3-8-161                                                                       |     |
| 113  | 4791600     | 4   | STAR WASHER, 3/8                                                                                         |     |
| 114  | 8310054     | 4   | FLAT WASHER, 3/8                                                                                         |     |
| 115  | 10136174    | 1   | PIN                                                                                                      |     |
| 117  | 10139838    | 2   | PLASTIC BUSHING                                                                                          |     |
| 118  | 10139849    | 2   | HOSE SPACER                                                                                              |     |
| 122  | 10239832    | 4   | HOSE GUIDE                                                                                               |     |
| 123  | 3951820     | 1   | SET SCREW, 1/2X2X1/2                                                                                     |     |
| 125  | 10716611    | 2   | GREASE FITTING, 1/4-28, (straight)                                                                       |     |
| 201  | 8127023     | 1   | RETRACT CHAIN, BL666                                                                                     |     |
| 202  | 10238723    | 1   | CHAIN ANCHOR                                                                                             |     |
| 203  | 10727310    | 1   | BOLT, 5/16X2                                                                                             |     |
| 204  | 10705000    | 1   | LOCKNUT, 1/4-20                                                                                          |     |
| 205  | 8522012     | AR  | ANTI-SEIZE LUBE                                                                                          |     |
| 313  |             | Ref | CHAIN AND CLEVIS ASSY, (See FOURTH BOOM SECTION for Breakdown)                                           |     |
| 403  | 7139032     | 1   | CHAIN ANCHOR                                                                                             |     |
| 406  | 8124138     | 1   | CHAIN CLEVIS PIN                                                                                         |     |
| 407  | 8642237     | 2   | RETAINING RING                                                                                           |     |

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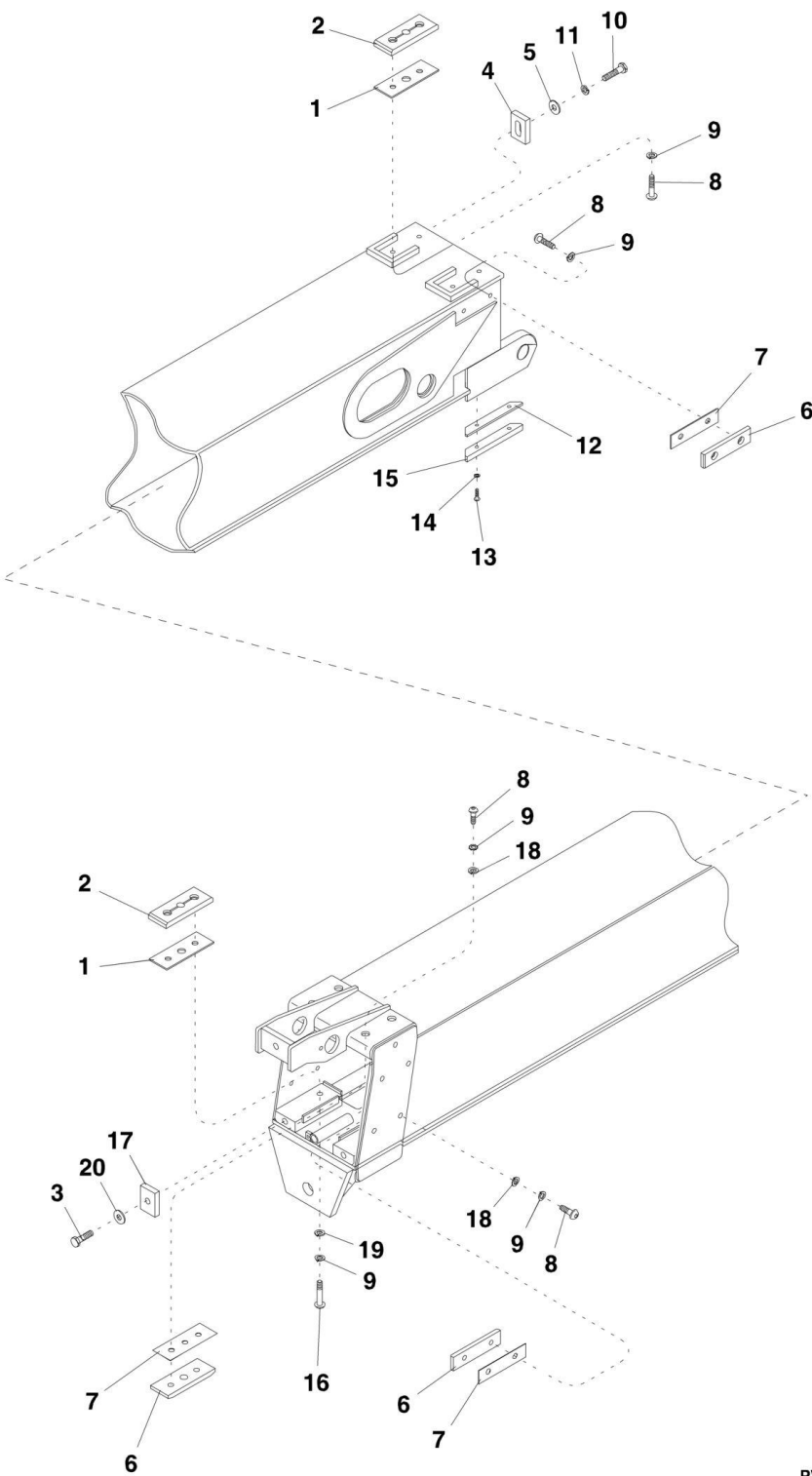
| ITEM | PART NUMBER | QTY | DESCRIPTION                                                               | REV |
|------|-------------|-----|---------------------------------------------------------------------------|-----|
| 408  | 8522012     | AR  | ANTI-SEIZE LUBE                                                           |     |
| 501  | 10165692    | 2   | BUSHING                                                                   |     |
| 502  | 10265755    | 1   | CHAIN SHEAVE                                                              |     |
| 601  | 10265837    | 1   | CHAIN/HOSE ROLLER                                                         |     |
| 602  | 10165723    | 2   | BUSHING                                                                   |     |
| 711  |             | Ref | BOOM EXTENSION CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |





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FIGURE 2-7. BEARING PADS, SPACERS AND SHIMS, (SECOND BOOM SECTION) (Prior to SN 0160037900, Excluding 0160037855)



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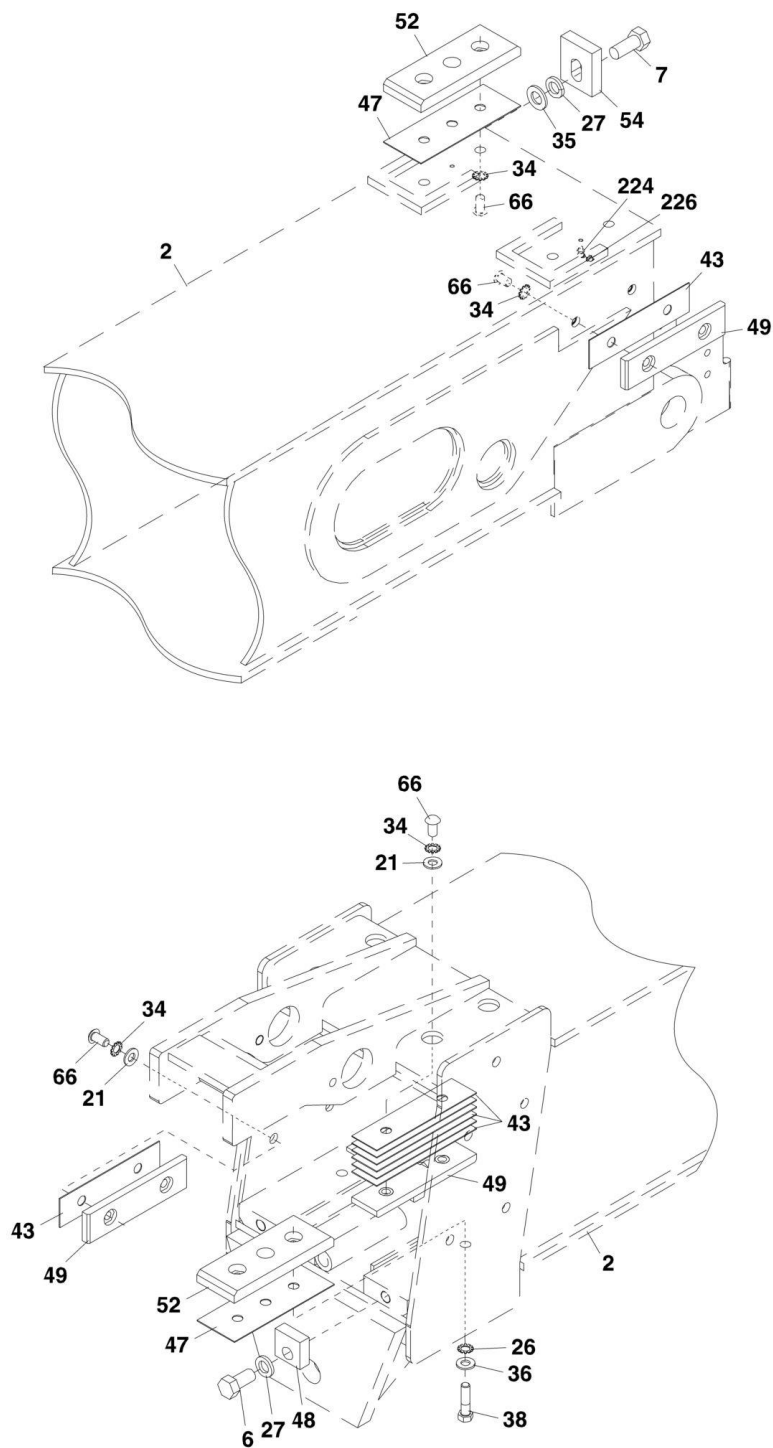
## SECTION 2 - BOOM

**FIGURE 2-7. BEARING PADS, SPACERS AND SHIMS, (SECOND BOOM SECTION) (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                             | REV |
|------|-------------|-----|-----------------------------------------|-----|
| 1    | 10138770    | AR  | SHIM, 16 GA, (.060X3 wide)              |     |
| 2    | 10139594    | 2   | BOOM SLIDE PAD, (3/4X3 wide)            |     |
| 3    | 10700700    | 2   | HEX HD CAPSCREW, 3/4-10X1-1/2, GR5      |     |
| 4    | 10139809    | 2   | PAD RETAINER, ALUMINUM                  |     |
| 5    | 10701257    | 3   | FLAT WASHER, 3/4                        |     |
| 6    | 10139023    | 8   | BOOM SLIDE PAD, (9/16X2 wide)           |     |
| 7    | 10136329    | AR  | SHIM, 16 GA, (.060X2 wide)              |     |
| 8    | 10703236    | AR  | SOCKET BUTTON HD CAPSCREW, 1/2-20X3/4   |     |
| 8    | 10703237    | AR  | SOCKET BUTTON HD CAPSCREW, 1/2-20X1     |     |
| 8    | 10703242    | AR  | SOCKET BUTTON HD CAPSCREW, 1/2-20X1-1/4 |     |
| 9    | 10701361    | 23  | STAR WASHER, 1/2                        |     |
| 10   | 10700701    | 2   | HEX HD CAPSCREW, 3/4-10X1-3/4           |     |
| 11   | 10701315    | 4   | LOCKWASHER, 3/4                         |     |
| 12   | 10165243    | AR  | SLIDE SHIM                              |     |
| 13   | 10703227    | 4   | SOCKET BUTTON HD CAPSCREW, 3/8-161      |     |
| 14   | 10701359    | 4   | STAR WASHER, 3/8                        |     |
| 15   | 10139863    | 2   | BOTTOM SLIDE PAD                        |     |
| 16   | 10700489    | 2   | HEX HD CAPSCREW, 1/2-20X2, GR8          |     |
| 17   | 10138773    | 2   | PAD RETAINER                            |     |
| 18   | 10701437    | 8   | FLAT WASHER, 1/2                        |     |
| 19   | 10701254    | 2   | FLAT WASHER, 1/2                        |     |
| 20   | 10701308    | 1   | LOCKWASHER, 1/4                         |     |

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FIGURE 2-8. BEARING PADS, SPACERS AND SHIMS, (SECOND BOOM SECTION) (SN 0160037900 to Present, Including 0160037855)



NOTE: USE LOCTITE® 242TM (0100011) ON ALL BOLT THREADS.

PV1890

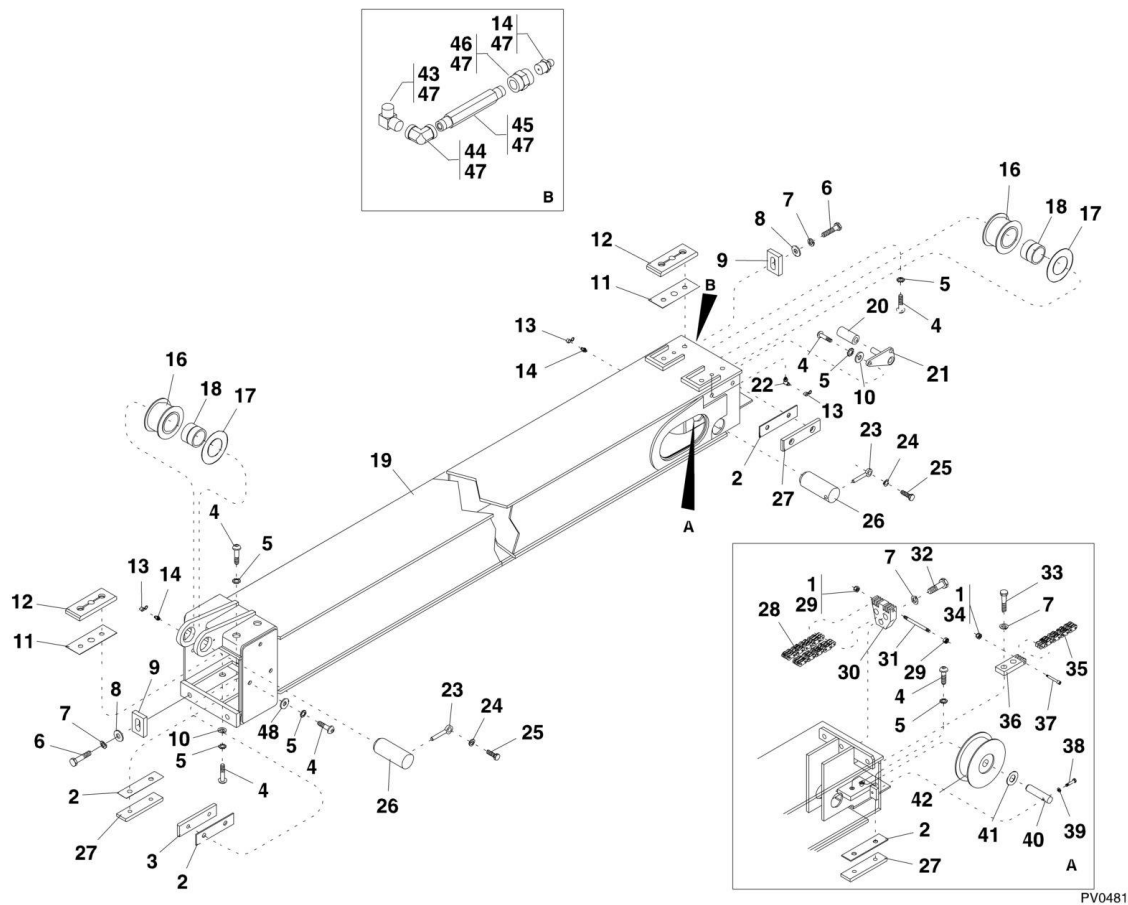
## SECTION 2 - BOOM

**FIGURE 2-8. BEARING PADS, SPACERS AND SHIMS, (SECOND BOOM SECTION) (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                           | REV |
|------|-------------|-----|-----------------------------------------------------------------------|-----|
| 2    |             | Ref | SECOND BOOM SECTION WELDMENT, (See SECOND BOOM SECTION for Breakdown) |     |
| 6    | 0642212     | 2   | HEX HD CAPSCREW, 3/4-10X1-1/2, GR5                                    |     |
| 7    | 0642214     | 2   | HEX HD CAPSCREW, 3/4-10X1-3/4, GR5                                    |     |
| 21   | 4711800     | 12  | FLAT WASHER, 1/2                                                      |     |
| 26   | 4761800     | 2   | LOCKWASHER, 1/2                                                       |     |
| 27   | 4762200     | 4   | LOCKWASHER, 3/4                                                       |     |
| 34   | 8307028     | 20  | LOCKWASHER, 1/2, (external tooth)                                     |     |
| 35   | 8307703     | 2   | FLAT WASHER, 3/4                                                      |     |
| 36   | 8310056     | 2   | FLAT WASHER, 1/2                                                      |     |
| 38   | 8310084     | 2   | HEX HD CAPSCREW, 1/2-20X2, GR8                                        |     |
| 43   | 10136329    | AR  | SHIM, (.06)                                                           |     |
| 47   | 10138770    | AR  | SHIM, (.06)                                                           |     |
| 48   | 10138773    | 2   | RETAINER PAD                                                          |     |
| 49   | 10139023    | 8   | BOOM PAD                                                              |     |
| 52   | 10139594    | 4   | BOOM PAD                                                              |     |
| 54   | 10139809    | 2   | RETAINER PAD                                                          |     |
| 66   | 10703236    | 20  | BUTTON HD CAPSCREW, 1/2-20X3/4                                        |     |
| 66   | 10703237    | 20  | BUTTON HD CAPSCREW, 1/2-20X1                                          |     |
| 66   | 10703242    | 20  | BUTTON HD CAPSCREW, 1/2-20X1-1/4                                      |     |
| 101  | 0100011     | AR  | LOCTITE 242                                                           |     |
| 224  | 10715367    | 2   | GREASE FITTING, 45                                                    |     |
| 226  | 10732689    | 2   | GREASE COVER                                                          |     |

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FIGURE 2-9. THIRD BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)



## SECTION 2 - BOOM

**FIGURE 2-9. THIRD BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                             | REV |
|------|-------------|-----|-------------------------------------------------------------------------|-----|
| 1    | 8522012     | AR  | ANTI-SEIZE LUBE, (apply to items 29 & 34)                               |     |
| 2    | 10136329    | AR  | SHIM, 16 GA, (.060X2 wide)                                              |     |
| 3    | 10139604    | 2   | BOOM SLIDE PAD, (7/16X2 wide)                                           |     |
| 4    | 10703236    | AR  | SOCKET BUTTON HD CAPSCREW, 1/2-20X3/4                                   |     |
| 4    | 10703237    | AR  | SOCKET BUTTON HD CAPSCREW, 1/2-20X1                                     |     |
| 4    | 10703242    | AR  | SOCKET BUTTON HD CAPSCREW, 1/2-20X1-1/4                                 |     |
| 5    | 10701361    | 22  | STAR WASHER, 1/2                                                        |     |
| 6    | 10700701    | 4   | HEX HD CAPSCREW, 3/4-10X1-3/4                                           |     |
| 7    | 10701315    | 9   | LOCKWASHER, 3/4                                                         |     |
| 8    | 10701257    | 4   | FLAT WASHER, 3/4                                                        |     |
| 9    | 10139809    | 4   | PAD RETAINER, ALUMINUM                                                  |     |
| 10   | 10701254    | 6   | FLAT WASHER, 1/2                                                        |     |
| 11   | 10138770    | AR  | SHIM, 16 GA, (.060X3 wide)                                              |     |
| 12   | 10139530    | 4   | BOOM SLIDE PAD, (1X3 wide)                                              |     |
| 13   | 10732689    | 4   | GREASE FITTING COVER                                                    |     |
| 14   | 10715272    | 4   | GREASE FITTING, 1/8 N.P.T.                                              |     |
| 16   | 10265833    | 2   | CHAIN ROLLER                                                            |     |
| 17   | 10720431    | AR  | CHAIN ROLLER SHIM                                                       |     |
| 18   | 10165715    | 2   | CHAIN ROLLER BUSHING                                                    |     |
| 19   | 10438564    | 1   | MIDDLE BOOM, (forward)                                                  |     |
| 20   | 10167073    | 2   | HOSE FOLLOWER ROLLER                                                    |     |
| 21   | 10267068    | 1   | LH HOSE ROLLER WELDMENT                                                 |     |
| 21   | 10267069    | 1   | RH HOSE ROLLER WELDMENT                                                 |     |
| 22   | 10715367    | 2   | GREASE FITTING, 45, 1/4                                                 |     |
| 23   | 10232432    | 2   | LOCK PIN, 5/8                                                           |     |
| 24   | 10701363    | 2   | LOCKWASHER, 5/8                                                         |     |
| 25   | 10700601    | 2   | HEX HD CAPSCREW, 5/8-13X1-1/4                                           |     |
| 26   | 10165735    | 2   | CHAIN ROLLER PIN                                                        |     |
| 27   | 10139023    | 4   | BOOM SLIDE PAD, (9/16X2 wide)                                           |     |
| 28   | 8127030     | 2   | UPPER CHAIN, (197.25in long)                                            |     |
| 29   | 10705001    | 2   | HEX LOCKNUT, 5/16-18                                                    |     |
| 30   | 10238661    | 1   | UPPER CHAIN ANCHOR                                                      |     |
| 31   | 10139379    | 1   | CHAIN ANCHOR ROD                                                        |     |
| 32   | 10700730    | 3   | HEX HD CAPSCREW, 3/4-10X2-3/4, GR8                                      |     |
| 33   | 10700726    | 2   | HEX HD CAPSCREW, 3/4-10X1-3/4, GR8                                      |     |
| 34   | 10705000    | 1   | HEX LOCKNUT, 1/4-20                                                     |     |
| 35   | 10138745    | 1   | LOWER CHAIN, (167.25in long)                                            |     |
| 36   | 10238724    | 1   | LOWER CHAIN ANCHOR                                                      |     |
| 37   | 10727310    | 1   | SHOULDER BOLT, 5/16 DIA X2                                              |     |
| 38   | 10700133    | 2   | HEX HD CAPSCREW, 5/16-18X1-1/2, GR8                                     |     |
| 39   | 10701309    | 2   | LOCKWASHER, 5/16                                                        |     |
| 40   | 10139287    | 2   | HOSE REEL PIN                                                           |     |
| 41   | 10701259    | 2   | FLAT WASHER, 1                                                          |     |
| 42   | 1101522     | 2   | HOSE REEL                                                               |     |
| 43   | 2220855     | 2   | PIPE NIPPLE, 90 (SN 0160032947 to Present)                              |     |
| 44   | 2221301     | 2   | ADAPTER, 90 (SN 0160032947 to Present)                                  |     |
| 45   | 2221302     | 2   | STRAIGHT ADAPTER (SN 0160032947 to Present)                             |     |
| 46   | 2200261     | 2   | COUPLING (SN 0160032947 to Present)                                     |     |
| 47   | 0100011     | AR  | LOCTITE 242, (apply to items 14, 43 thru 46) (SN 0160032947 to Present) |     |

SECTION 2 - BOOM

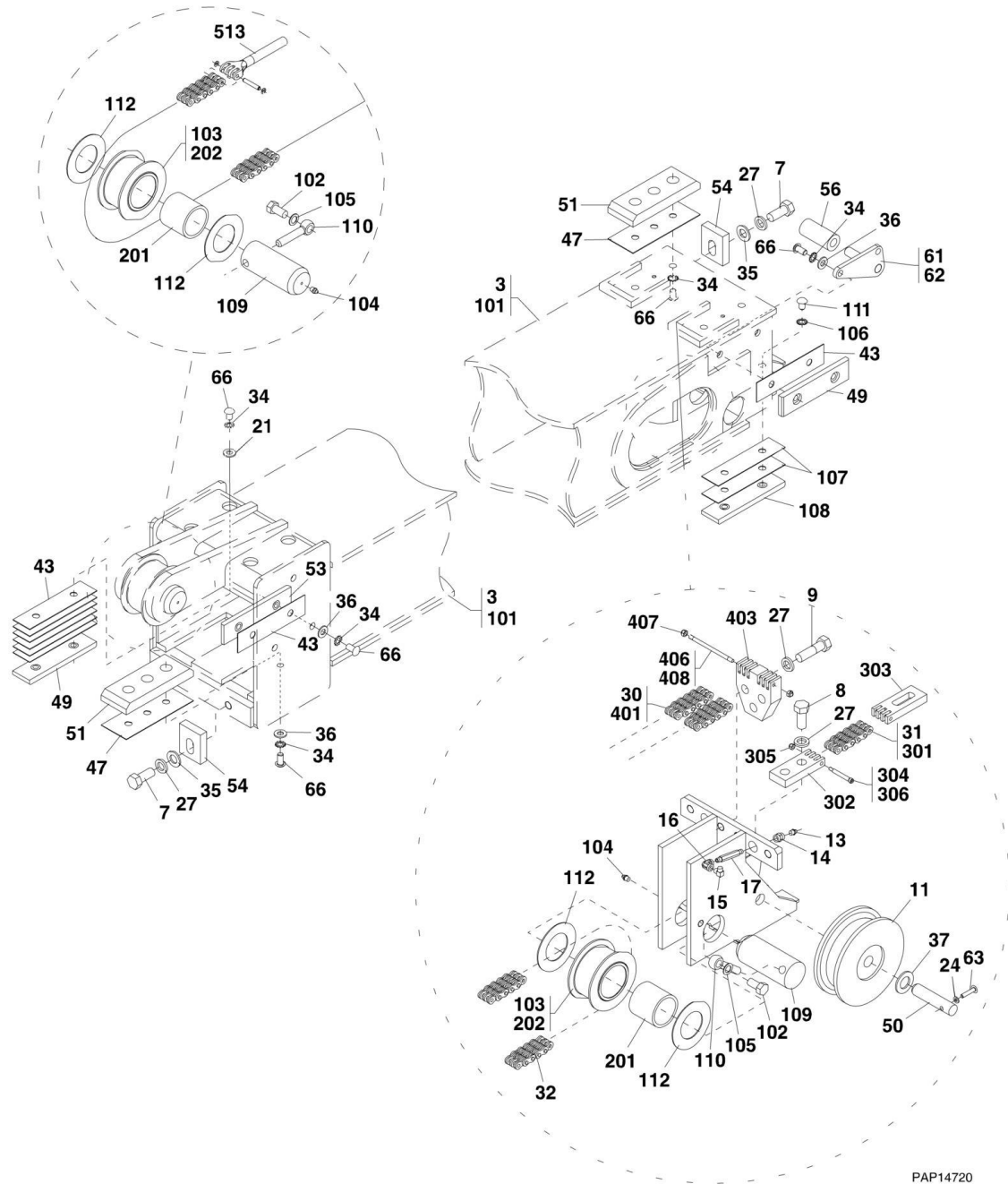
| ITEM | PART NUMBER | QTY | DESCRIPTION                                 | REV |
|------|-------------|-----|---------------------------------------------|-----|
| 48   | 10701437    | 8   | FLAT WASHER, 1/2 (SN 0160032947 to Present) |     |





SECTION 2 - BOOM

FIGURE 2-10. THIRD BOOM SECTION (SN 0160037900 to Present, Including 0160037855)



PAP14720

## SECTION 2 - BOOM

**FIGURE 2-10. THIRD BOOM SECTION (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                         | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------------------------|-----|
| 3    | 1001103580  | Ref | THIRD BOOM SECTION SUB ASSY, (Single Aux), (Dual Aux), (not available to order, see items 101 thru 112 for service) | A   |
| 7    | 0642214     | 4   | HEX HD CAPSCREW, 3/4-10X1-3/4, GR5                                                                                  |     |
| 8    | 0682214     | 2   | HEX HD CAPSCREW, 3/4-10X1-3/4, GR8                                                                                  |     |
| 9    | 0682222     | 3   | HEX HD CAPSCREW, 3/4-10X2-3/4, GR8                                                                                  |     |
| 11   | 1101522     | 1   | HOSE SHEAVE, (Single Aux)                                                                                           |     |
| 11   | 1101525     | 1   | HOSE SHEAVE, (Dual Aux)                                                                                             |     |
| 13   | 2160002     | 2   | GREASE FITTING, 1/8, (straight)                                                                                     |     |
| 14   | 2200261     | 2   | COUPLING                                                                                                            |     |
| 15   | 2220855     | 2   | ELBOW, 90                                                                                                           |     |
| 16   | 2221301     | 2   | ELBOW, 90                                                                                                           |     |
| 17   | 2221302     | 2   | CONNECTOR                                                                                                           |     |
| 21   | 4711800     | 4   | FLAT WASHER, 1/2                                                                                                    |     |
| 24   | 4761500     | 2   | LOCKWASHER, 5/16                                                                                                    |     |
| 27   | 4762200     | 9   | LOCKWASHER, 3/4                                                                                                     |     |
| 30   | 7139773     | 1   | CHAIN AND CLEVIS ASSY, (includes items 401, 403 & 406 thru 408)                                                     | C   |
| 31   | 7139774     | 1   | CHAIN AND CLEVIS ASSY, (includes items 301 thru 306)                                                                | B   |
| 32   |             | Ref | CHAIN AND CLEVIS ASSY, (See SECOND BOOM SECTION for Breakdown)                                                      |     |
| 34   | 8307028     | 18  | LOCKWASHER, 1/2, (external tooth)                                                                                   |     |
| 35   | 8307703     | 4   | FLAT WASHER, 3/4                                                                                                    |     |
| 36   | 8310056     | 6   | FLAT WASHER, 1/2                                                                                                    |     |
| 37   | 8310061     | 2   | FLAT WASHER, 1                                                                                                      |     |
| 43   | 10136329    | AR  | SHIM, (.06)                                                                                                         |     |
| 47   | 10138770    | AR  | SHIM, (.06)                                                                                                         |     |
| 49   | 10139023    | 4   | BOOM PAD                                                                                                            |     |
| 50   | 10139287    | 2   | CHAIN SHEAVE PIN                                                                                                    |     |
| 51   | 10139530    | 4   | BOOM PAD                                                                                                            |     |
| 53   | 10139604    | 2   | BOOM PAD                                                                                                            |     |
| 54   | 10139809    | 4   | RETAINER PAD                                                                                                        |     |
| 56   | 10167073    | 2   | HOSE ROLLER                                                                                                         |     |
| 61   | 10267068    | 1   | LH HOSE ROLLER WELDMENT                                                                                             |     |
| 62   | 10267069    | 1   | RH HOSE ROLLER WELDMENT                                                                                             |     |
| 63   | 10700133    | 2   | BUTTON HD CAPSCREW, 1/2-20X1                                                                                        |     |
| 66   | 10703236    | 18  | HEX HD CAPSCREW, 1/2-20X3/4                                                                                         |     |
| 66   | 10703237    | 18  | HEX HD CAPSCREW, 1/2-20X1                                                                                           |     |
| 66   | 10703242    | 18  | HEX HD CAPSCREW, 1/2-20X1-1/4                                                                                       |     |
| 101  | 10438564    | 1   | THIRD BOOM SECTION WELDMENT                                                                                         |     |
| 102  | 0642010     | 2   | HEX HD CAPSCREW, 5/8-11X1-1/4, GR5                                                                                  |     |
| 103  | 1101673     | 2   | CHAIN SHEAVE SUB ASSY, (includes items 201 & 202)                                                                   | B   |
| 104  | 2160002     | 2   | GREASE FITTING, 1/8, (straight)                                                                                     |     |
| 105  | 4792000     | 2   | STAR WASHER, 5/8                                                                                                    |     |
| 106  | 8307028     | 2   | LOCKWASHER, 1/2, (external tooth)                                                                                   |     |
| 107  | 10136329    | 2   | SHIM, (.06)                                                                                                         |     |
| 108  | 10139023    | 1   | BOOM PAD                                                                                                            |     |
| 109  | 10165735    | 2   | CHAIN SHEAVE PIN                                                                                                    |     |
| 110  | 10232432    | 2   | LOCK PIN                                                                                                            |     |
| 111  | 10703236    | 2   | BUTTON HD CAPSCREW, 1/2-20X3/4                                                                                      |     |
| 112  | 10720431    | AR  | SHIM WASHER                                                                                                         |     |

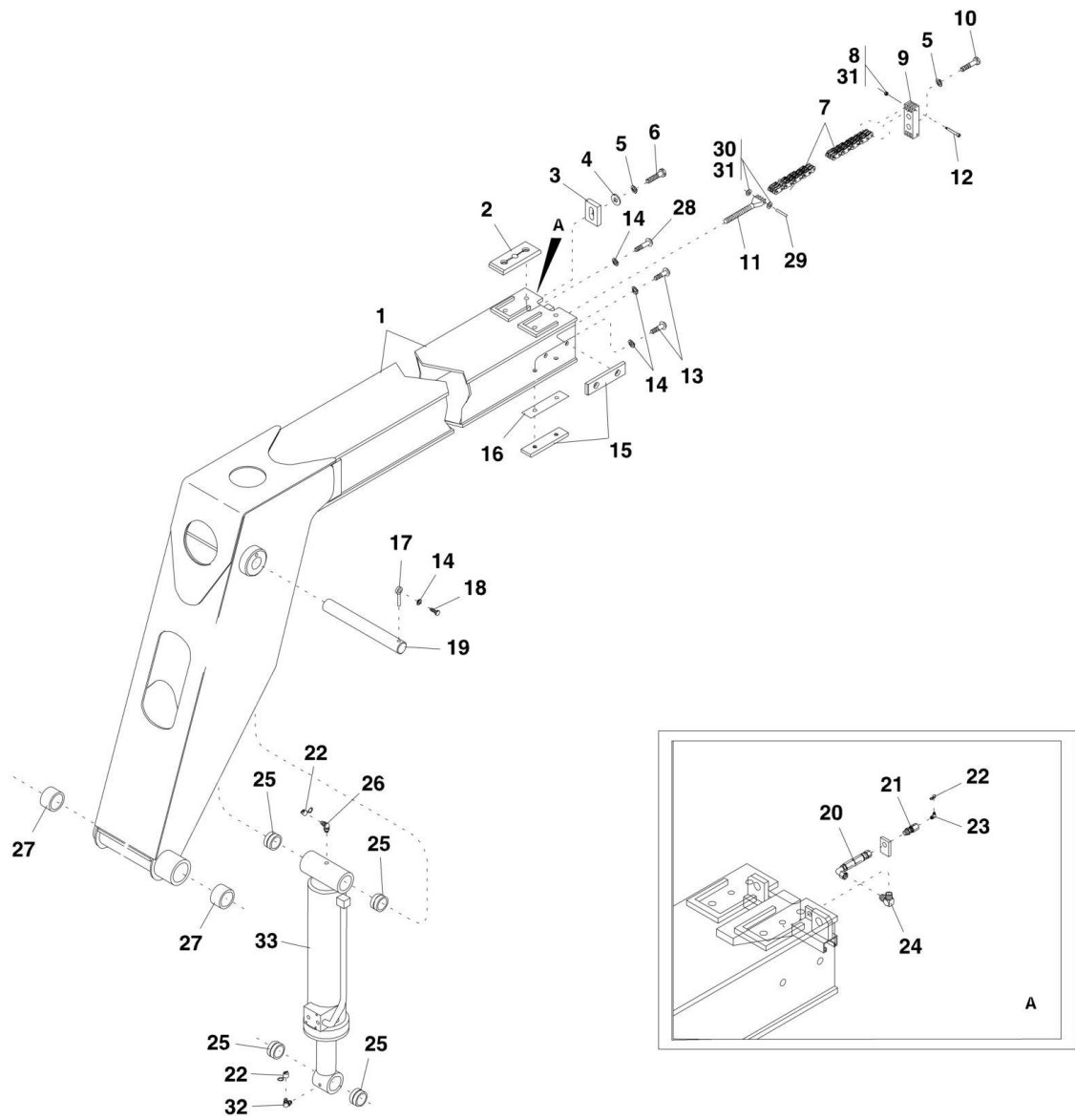
## SECTION 2 - BOOM

| ITEM | PART NUMBER | QTY | DESCRIPTION                                           | REV |
|------|-------------|-----|-------------------------------------------------------|-----|
| 201  | 10165715    | 2   | BUSHING                                               |     |
| 202  | 10265833    | 2   | CHAIN SHEAVE                                          |     |
| 301  | 10138745    | 1   | RETRACTION CHAIN, BL666                               |     |
| 302  | 10238724    | 1   | CHAIN ANCHOR                                          |     |
| 303  | 10238723    | 1   | CHAIN ANCHOR                                          |     |
| 304  | 10727310    | 2   | BOLT, 5/16X2                                          |     |
| 305  | 10705000    | 2   | LOCKNUT, 1/4-20                                       |     |
| 306  | 8522012     | AR  | ANTI-SEIZE LUBE                                       |     |
| 401  | 8127030     | 2   | EXTEND CHAIN, BL666                                   |     |
| 403  | 10238661    | 1   | ANCHOR CHAIN                                          |     |
| 406  | 10139379    | 1   | CHAIN ANCHOR ROD                                      |     |
| 407  | 10705001    | 2   | LOCKNUT, 5/16-18                                      |     |
| 408  | 8522012     | AR  | ANTI-SEIZE LUBE                                       |     |
| 513  |             | Ref | EXTEND CHAIN, (See SECOND BOOM SECTION for Breakdown) |     |



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FIGURE 2-11. FOURTH BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)



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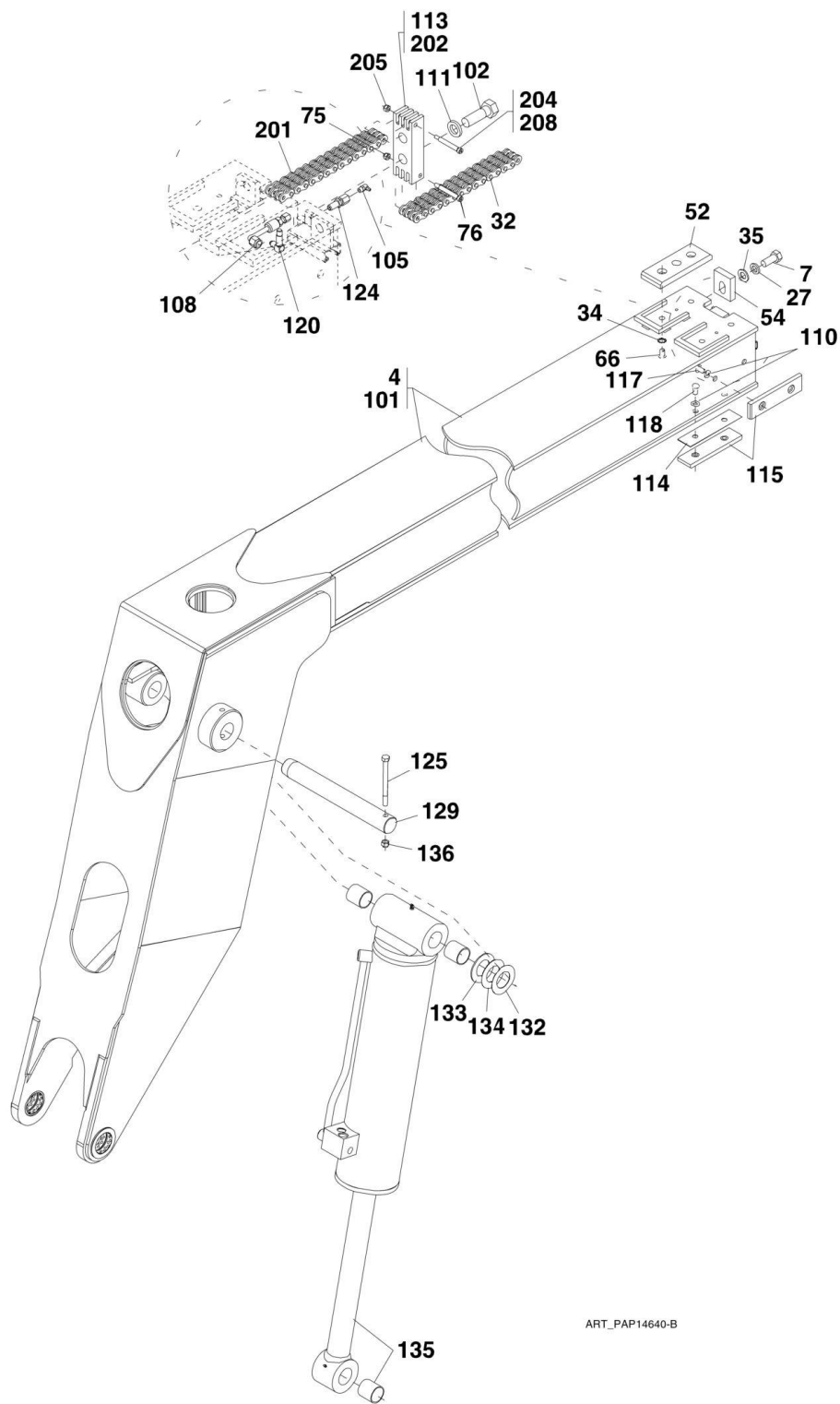
## SECTION 2 - BOOM

**FIGURE 2-11. FOURTH BOOM SECTION (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                    | REV |
|------|-------------|-----|--------------------------------------------------------------------------------|-----|
| 1    | 10438563    | 1   | FOURTH BOOM SECTION                                                            |     |
| 2    | 10139594    | 2   | BOOM SLIDE PAD, (3/4X3 wide)                                                   |     |
| 3    | 10139809    | 2   | PAD RETAINER, ALUMINUM                                                         |     |
| 4    | 10701257    | 2   | FLAT WASHER, 3/4                                                               |     |
| 5    | 10701315    | 4   | LOCKWASHER, 3/4                                                                |     |
| 6    | 10700701    | 2   | HEX HD CAPSCREW, 3/4-10X1-3/4                                                  |     |
| 7    | 8127029     | 1   | LEAF CHAIN, (195.75in long)                                                    |     |
| 8    | 10705000    | 1   | HEX LOCKNUT, 1/4-20                                                            |     |
| 9    | 10238628    | 1   | CHAIN ANCHOR, (rear)                                                           |     |
| 10   | 10700728    | 2   | HEX HD CAPSCREW, 3/4-10X2-1/4, GR8                                             |     |
| 11   | 7139032     | 1   | ANCHOR CLEVIS                                                                  |     |
| 12   | 10727310    | 2   | SHOULDER BOLT, 5/16 DIA X2                                                     |     |
| 13   | 10703236    | 8   | SOCKET BUTTON HD CAPSCREW, 1/2-20X3/4, (torque to 85 lb-ft)                    |     |
| 14   | 10701312    | 13  | LOCKWASHER, 1/2                                                                |     |
| 15   | 10139023    | 4   | BOOM SLIDE PAD, (9/16X2 wide)                                                  |     |
| 16   | 10136329    | 2   | SLIDE PAD SHIM                                                                 |     |
| 17   | 3841709     | 1   | LOCK PIN                                                                       |     |
| 18   | 10700403    | 1   | HEX HD CAPSCREW, 1/2-13X1-1/4                                                  |     |
| 19   | 10136541    | 1   | FRONT CARRIAGE TILT CYLINDER PIN, (base end)                                   |     |
| 20   | 2754547     | 2   | GREASE HOSE                                                                    |     |
| 21   | 80623016    | 2   | BULKHEAD ADAPTER                                                               |     |
| 22   | 10732689    | 5   | GREASE FITTING COVER                                                           |     |
| 23   | 10715277    | 2   | GREASE FITTING, 90, 1/8                                                        |     |
| 24   | 10726600    | 2   | ELBOW, 90                                                                      |     |
| 25   | 10116228    | 4   | FRONT CARRIAGE TILT CYLINDER BUSHING                                           |     |
| 26   | 10716611    | 2   | GREASE FITTING                                                                 |     |
| 27   | 10124257    | 2   | QUICK ATTACH PIVOT BOOM BUSHING                                                |     |
| 28   | 10703237    | 4   | SOCKET BUTTON HD CAPSCREW, 1/2-20X1                                            |     |
| 29   | 8124138     | 1   | CHAIN CLEVIS PIN                                                               |     |
| 30   | 8642237     | 2   | RETAINING RING                                                                 |     |
| 31   | 8522012     | AR  | ANTI-SEIZE LUBE, (apply to items 8 & 30)                                       |     |
| 32   | 10716611    | 1   | GREASE FITTING                                                                 |     |
| 33   |             | Ref | FRONT CARRIAGE TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |

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FIGURE 2-12. FOURTH BOOM SECTION (SN 0160037900 to Present, Including 0160037855)



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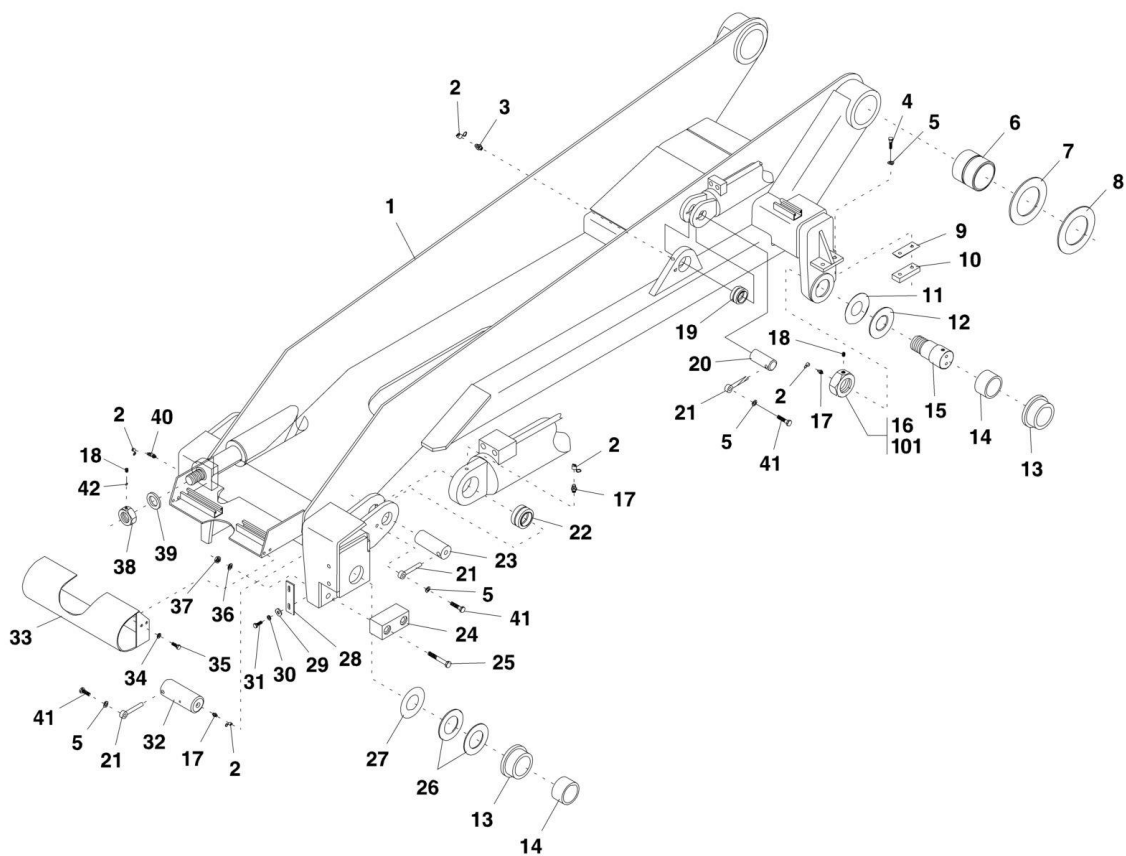
## SECTION 2 - BOOM

**FIGURE 2-12. FOURTH BOOM SECTION (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                              | REV |
|------|-------------|-----|----------------------------------------------------------------------------------------------------------|-----|
| 4    | 1001103581  | Ref | FOURTH BOOM SECTION WELDMENT, (Single Aux), (not available to order, see items 101 thru 136 for service) | G   |
| 4    | 1001103585  | Ref | FOURTH BOOM SECTION WELDMENT, (Dual Aux), (not available to order, see items 101 thru 136 for service)   | H   |
| 7    | 0642214     | 2   | HEX HD CAPSCREW, 3/4-10X1-3/4, GR5                                                                       |     |
| 27   | 4762200     | 2   | LOCKWASHER, 3/4                                                                                          |     |
| 32   |             | Ref | CHAIN AND CLEVIS ASSY, (See SECOND BOOM SECTION for Breakdown)                                           |     |
| 34   | 8307028     | 4   | LOCKWASHER, 1/2, (external tooth)                                                                        |     |
| 35   | 8307703     | 2   | FLAT WASHER, 3/4                                                                                         |     |
| 52   | 10139594    | 2   | BOOM PAD                                                                                                 |     |
| 54   | 10139809    | 2   | RETAINER PAD                                                                                             |     |
| 66   | 10703236    | 4   | BUTTON HD CAPSCREW, 1/2-20X3/4                                                                           |     |
| 66   | 10703237    | 4   | BUTTON HD CAPSCREW, 1/2-20X1                                                                             |     |
| 66   | 10703242    | 4   | BUTTON HD CAPSCREW, 1/2-20X1-1/4                                                                         |     |
| 75   | 8305624     | 1   | HEX LOCKNUT, 5/16-20                                                                                     |     |
| 76   | 10727310    | 1   | SHOULDER BOLT, 5/16-20                                                                                   |     |
| 101  | 1001098665  | 1   | FOURTH BOOM SECTION WELDMENT                                                                             |     |
| 102  | 0682218     | 2   | HEX HD CAPSCREW, 3/4-10X2-1/4, GR8, (torque to 420 lb-ft)                                                |     |
| 105  | 10715277    | 2   | 90, GREASE FITTING, 1/8                                                                                  |     |
| 108  | 2754547     | 2   | GREASE HOSE                                                                                              |     |
| 110  | 4761800     | 8   | LOCKWASHER, 1/2, (Single Aux)                                                                            |     |
| 110  | 4761800     | 6   | LOCKWASHER, 1/2, (Dual Aux)                                                                              |     |
| 111  | 4762200     | 2   | LOCKWASHER, 3/4                                                                                          |     |
| 113  | 7139772     | 1   | CHAIN AND CLEVIS ASSY, (includes items 201 thru 208)                                                     | C   |
| 114  | 10136329    | 2   | SHIM, (.06)                                                                                              |     |
| 115  | 10139023    | 4   | BOOM PAD                                                                                                 |     |
| 117  | 10703236    | 4   | BUTTON HD CAPSCREW, 1/2-20X3/4, (torque to 64 lb-ft lubricated, 85 lb-ft dry)                            |     |
| 118  | 10703237    | 4   | BUTTON HD CAPSCREW, 1/2-20X1                                                                             |     |
| 120  | 10726600    | 2   | ELBOW, 90                                                                                                |     |
| 124  | 80623016    | 2   | BULKHEAD ADAPTER                                                                                         |     |
| 125  | 0641848     | 1   | HEX HD CAPSCREW, 1/2-13X6, GR5                                                                           |     |
| 129  | 1001109548  | 1   | CYLINDER PIN                                                                                             |     |
| 132  | 8307904     | AR  | SHIM WASHER, (.042-.054)                                                                                 |     |
| 133  | 8307918     | AR  | SHIM WASHER, (.142-.126)                                                                                 |     |
| 134  | 8310093     | AR  | SHIM WASHER, (.082-.068)                                                                                 |     |
| 135  |             | Ref | TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                          |     |
| 136  | 8305644     | 1   | HEX LOCKNUT, 1/2-13                                                                                      |     |
| 201  | 8127029     | 1   | EXTEND CHAIN, BL666                                                                                      |     |
| 202  | 10238628    | 1   | ANCHOR CHAIN                                                                                             |     |
| 204  | 10727310    | 1   | BOLT, 5/16X2                                                                                             |     |
| 205  | 10705000    | 1   | LOCKNUT, 1/4-20                                                                                          |     |
| 208  | 8522012     | AR  | ANTI-SEIZE LUBE                                                                                          |     |

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FIGURE 2-13. TRANSFER CARRIAGE/BOOM CRADLE ASSEMBLY



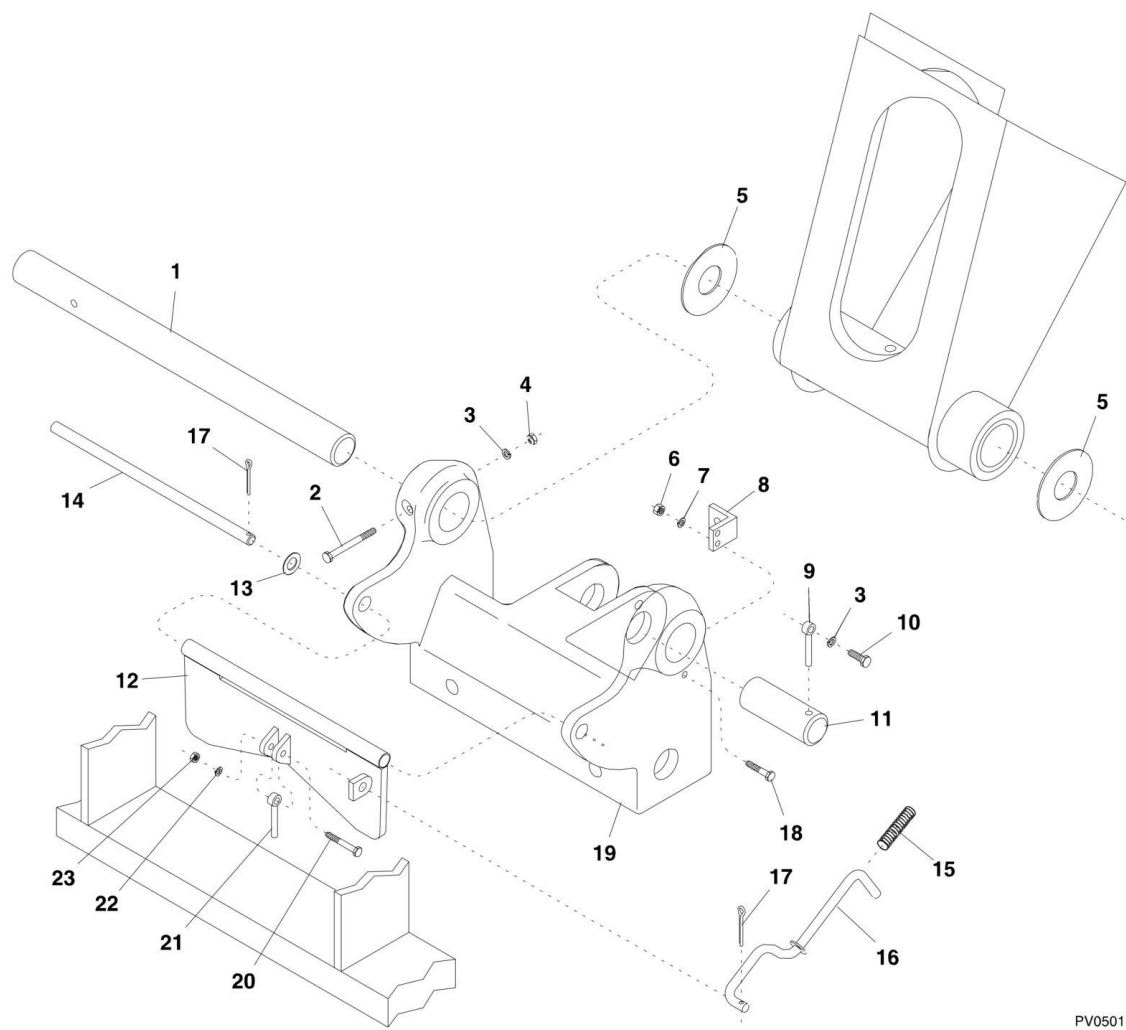
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FIGURE 2-13. TRANSFER CARRIAGE/BOOM CRADLE ASSEMBLY

| ITEM | PART NUMBER | QTY | DESCRIPTION                               | REV |
|------|-------------|-----|-------------------------------------------|-----|
| 1    | 10338244    | 1   | TRANSFER CARRIAGE                         |     |
| 2    | 10732689    | 8   | GREASE FITTING COVER                      |     |
| 3    | 10715272    | 2   | GREASE FITTING, 1/8 N.P.T.                |     |
| 4    | 10700453    | 4   | HEX HD CAPSCREW, 1/2-20X1-1/4             |     |
| 5    | 10701312    | 10  | LOCKWASHER, 1/2                           |     |
| 6    | 1101132     | 2   | BOOM PIVOT BUSHING                        |     |
| 7    | 10138394    | AR  | SHIM, 0.06, (1.52mm)                      |     |
| 8    | 10138395    | AR  | SHIM, 0.12, (3.05mm)                      |     |
| 9    | 10165110    | AR  | SLIDE BLOCK SHIM, 11 GA, (.1196in)        |     |
| 9    | 10118167    | AR  | SLIDE BLOCK SHIM, 22 GA, (.0299in)        |     |
| 10   | 10165950    | 2   | SLIDE BLOCK, (rear)                       |     |
| 11   | 10118329    | AR  | SPACER WASHER                             |     |
| 12   | 10118328    | 2   | THRUST WASHER                             |     |
| 13   | 10230339    | 4   | TRANSFER ROLLER                           |     |
| 14   | 10124257    | 4   | ROLLER BUSHING                            |     |
| 15   | 10265716    | 2   | REAR ROLLER SPINDLE                       |     |
| 16   | 10119920    | 2   | REAR ROLLER SPINDLE NUT                   |     |
| 17   | 10716611    | 5   | GREASE FITTING                            |     |
| 18   | 10702612    | 3   | SOCKET HD SETSCREW, 3/8-16X1/2            |     |
| 19   | 8050001     | 2   | REAR CARRIAGE TILT CYLINDER MOUNT BUSHING |     |
| 20   | 10136464    | 2   | REAR CARRIAGE TILT CYLINDER PIN, (lower)  |     |
| 21   | 3841709     | 6   | LOCK PIN                                  |     |
| 22   | 10718830    | 2   | HOIST CYLINDER BUSHING, (base end)        |     |
| 23   | 10136487    | 2   | HOIST CYLINDER PIN, (base end)            |     |
| 24   | 10115972    | 2   | SLIDE BLOCK, (front)                      |     |
| 25   | 10700708    | 4   | HEX HD CAPSCREW, 3/4-10X3-1/2             |     |
| 26   | 10117012    | AR  | ROLLER SHIM                               |     |
| 27   | 10117180    | 2   | ROLLER SPACER                             |     |
| 28   | 10116309    | 2   | SCRAPER PLATE                             |     |
| 29   | 10701403    | 4   | FLAT WASHER, 5/16                         |     |
| 30   | 10701309    | 4   | LOCKWASHER, 5/16                          |     |
| 31   | 10700102    | 4   | HEX HD CAPSCREW, 5/16-183/4               |     |
| 32   | 10138090    | 2   | FRONT ROLLER PIN                          |     |
| 33   | 10265025    | 1   | PLASTIC HOSE COVER                        |     |
| 34   | 10701308    | 4   | LOCKWASHER, 1/4                           |     |
| 35   | 10700004    | 4   | HEX HD CAPSCREW, 1/4-20X3/4               |     |
| 36   | 10701315    | 4   | LOCKWASHER, 3/4                           |     |
| 37   | 10701513    | 4   | HEX NUT, 3/4-10                           |     |
| 38   | 10116369    | 1   | TRANSFER CYLINDER NUT                     |     |
| 39   | 10115976    | 1   | CYLINDER ROD BOSS                         |     |
| 40   | 10715367    | 1   | GREASE FITTING, 45, 1/4                   |     |
| 41   | 10700403    | 10  | HEX HD CAPSCREW, 1/2-13X1-1/4             |     |
| 42   | 1100417     | 1   | LEAD BALL                                 |     |
| 101  | 0100011     | AR  | LOCTITE 242, (apply to item 16)           |     |

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FIGURE 2-14. QUICK ATTACH GROUP INSTALLATION (Prior to SN 0160037900, Excluding 0160037855)



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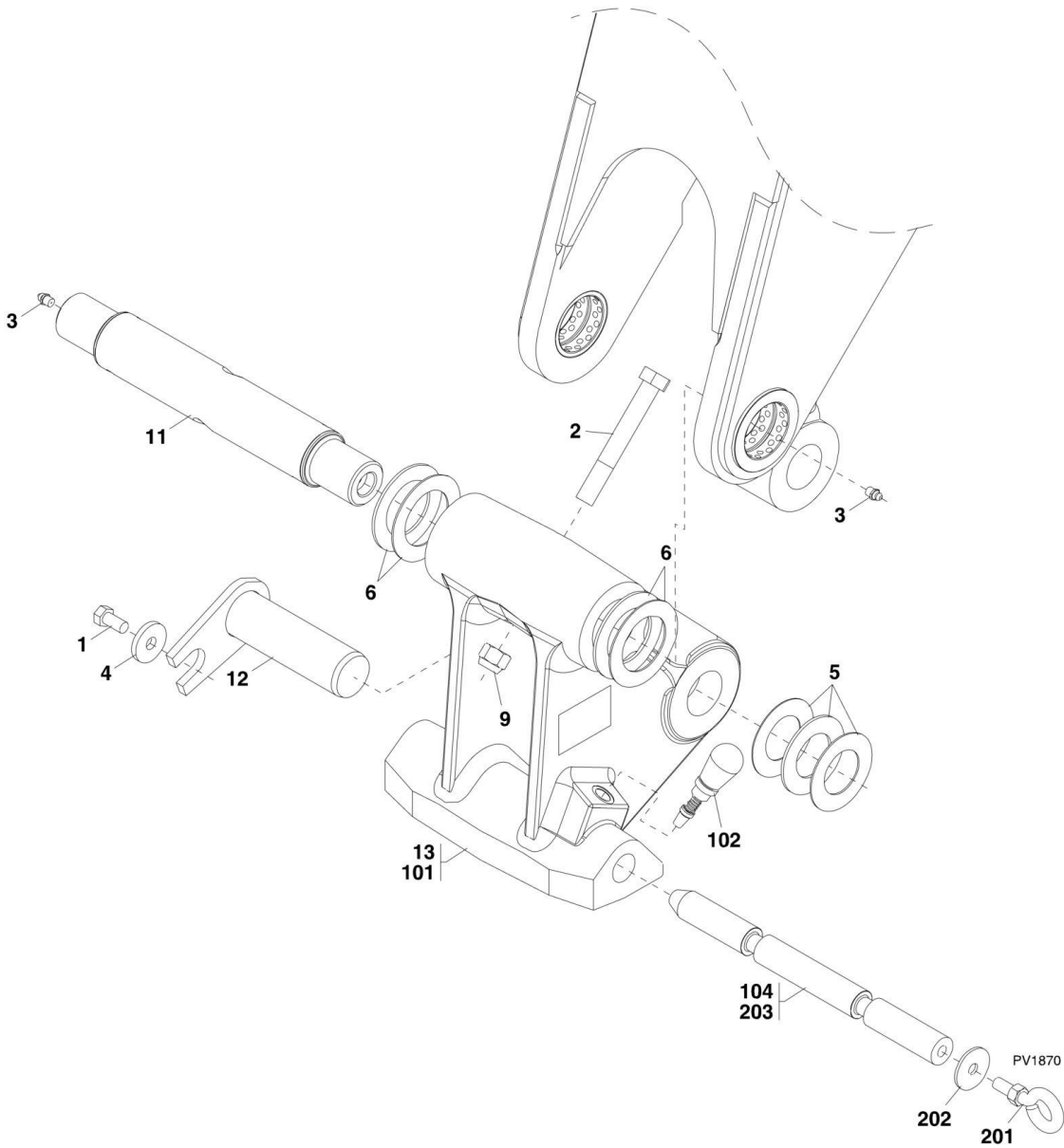
## SECTION 2 - BOOM

**FIGURE 2-14. QUICK ATTACH GROUP INSTALLATION (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                          | REV |
|------|-------------|-----|--------------------------------------------------------------------------------------|-----|
|      | 10465744    | Ref | QUICK ATTACH INSTALLATION, (not available to order, see items 1 thru 23 for service) | J   |
| 1    | 10136863    | 1   | QUICK ATTACH PIVOT PIN                                                               |     |
| 2    | 10700420    | 1   | HEX HD CAPSCREW, 1/2-13X7                                                            |     |
| 3    | 10701312    | 2   | LOCKWASHER, 1/2                                                                      |     |
| 4    | 10701510    | 1   | HEX NUT, 1/2-13                                                                      |     |
| 5    | 10136013    | AR  | SHIM, 0.036, (.91mm)                                                                 |     |
| 5    | 10117012    | AR  | SHIM, 0.075, (1.90mm)                                                                |     |
| 6    | 10701200    | 2   | HEX NUT, 1/4-20                                                                      |     |
| 7    | 10701308    | 2   | LOCKWASHER, 1/4                                                                      |     |
| 8    | 10167213    | 1   | ROD SUPPORT BRACKET                                                                  |     |
| 9    | 3841203     | 1   | LOCK PIN                                                                             |     |
| 10   | 10700403    | 1   | HEX HD CAPSCREW, 1/2-13X1-1/4                                                        |     |
| 11   | 10165667    | 1   | FRONT CARRIAGE TILT PIN, (rod end)                                                   |     |
| 12   | 10265671    | 1   | LOCK PLATE                                                                           |     |
| 13   | 10701411    | 2   | FLAT WASHER, 1                                                                       |     |
| 14   | 10165668    | 1   | LOCK PIVOT PLATE PIN                                                                 |     |
| 15   | 10866835    | 1   | RELEASE SPRING                                                                       |     |
| 16   | 10167059    | 1   | QUICK ATTACH RELEASE ROD                                                             |     |
| 17   | 10703865    | 3   | COTTER PIN, 3/16X1-1/2                                                               |     |
| 18   | 10700008    | 2   | HEX HD CAPSCREW, 1/4-20X1-3/4                                                        |     |
| 19   | 10438176    | 1   | QUICK ATTACH CASTING                                                                 |     |
| 20   | 10700209    | 1   | HEX HD CAPSCREW, 3/8-16X2-1/4                                                        |     |
| 21   | 3841708     | 1   | LOCK PIN                                                                             |     |
| 22   | 10701310    | 1   | LOCKWASHER, 3/8                                                                      |     |
| 23   | 10701508    | 1   | HEX NUT, 3/8-16                                                                      |     |

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FIGURE 2-15. QUICK ATTACH GROUP INSTALLATION (SN 0160037900 to Present, Including 0160037855)



## SECTION 2 - BOOM

**FIGURE 2-15. QUICK ATTACH GROUP INSTALLATION (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                          | REV |
|------|-------------|-----|--------------------------------------------------------------------------------------|-----|
|      | 1001108582  | 1   | QUICK ATTACH INSTALLATION, (not available to order, see items 1 thru 13 for service) | A   |
| 1    | 0641808     | 1   | HEX HD CAPSCREW, 1/2-13X1, GR5                                                       |     |
| 2    | 0682244     | 1   | HEX HD CAPSCREW, 3/4-10X5-1/2, GR8                                                   |     |
| 3    | 2160002     | 2   | GREASE FITTING, (straight)                                                           |     |
| 4    | 4740003     | 1   | FLAT WASHER                                                                          |     |
| 5    | 8307904     | AR  | SHIM WASHER, (.048)                                                                  |     |
| 5    | 8310093     | AR  | SHIM WASHER, (.075)                                                                  |     |
| 5    | 8307918     | AR  | SHIM WASHER, (.134)                                                                  |     |
| 6    | 8307916     | AR  | SHIM WASHER, (.075)                                                                  |     |
| 6    | 8307917     | AR  | SHIM WASHER, (.134)                                                                  |     |
| 9    | 8310067     | 1   | HEX LOCKNUT, 3/4-10                                                                  |     |
| 11   | 1001098233  | 1   | QUICK ATTACH CARRIAGE PIVOT PIN                                                      |     |
| 12   | 1001098492  | 1   | QUICK ATTACH CYLINDER PIN WELDMENT                                                   |     |
| 13   | 1001098770  | 1   | QUICK ATTACH COUPLING ASSY, (includes items 101 thru 104)                            | D   |
| 101  | 1001100756  | 1   | QUICK ATTACH COUPLING                                                                |     |
| 102  | 1001143692  | 1   | POPPIN PIN                                                                           |     |
| 104  | 1001105441  | 1   | QUICK ATTACH PIVOT LOCK PIN, (includes items 201 thru 203)                           | B   |
| 201  | 8310266     | 1   | HEX NUT, 1/2-13                                                                      |     |
| 202  | 8310276     | 1   | WASHER                                                                               |     |
| 203  | 1001105440  | 1   | QUICK ATTACH LOCK PIN                                                                |     |

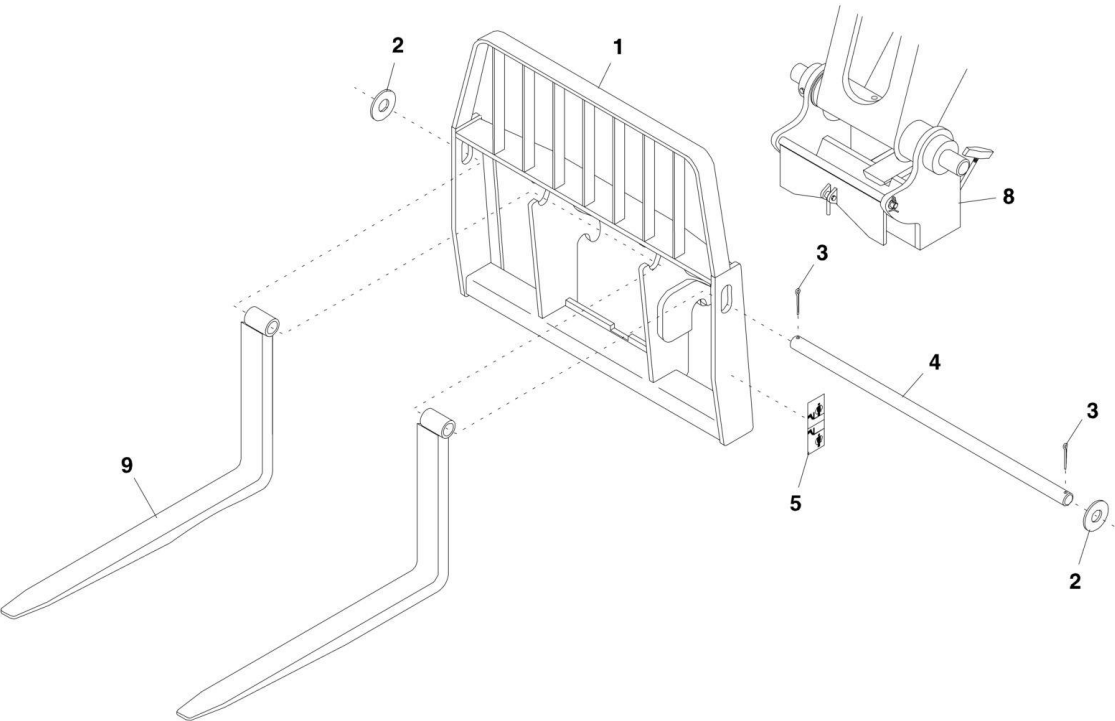




**SECTION 3 - ATTACHMENTS**

SECTION 3 - ATTACHMENTS

FIGURE 3-1. CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)



PV1171

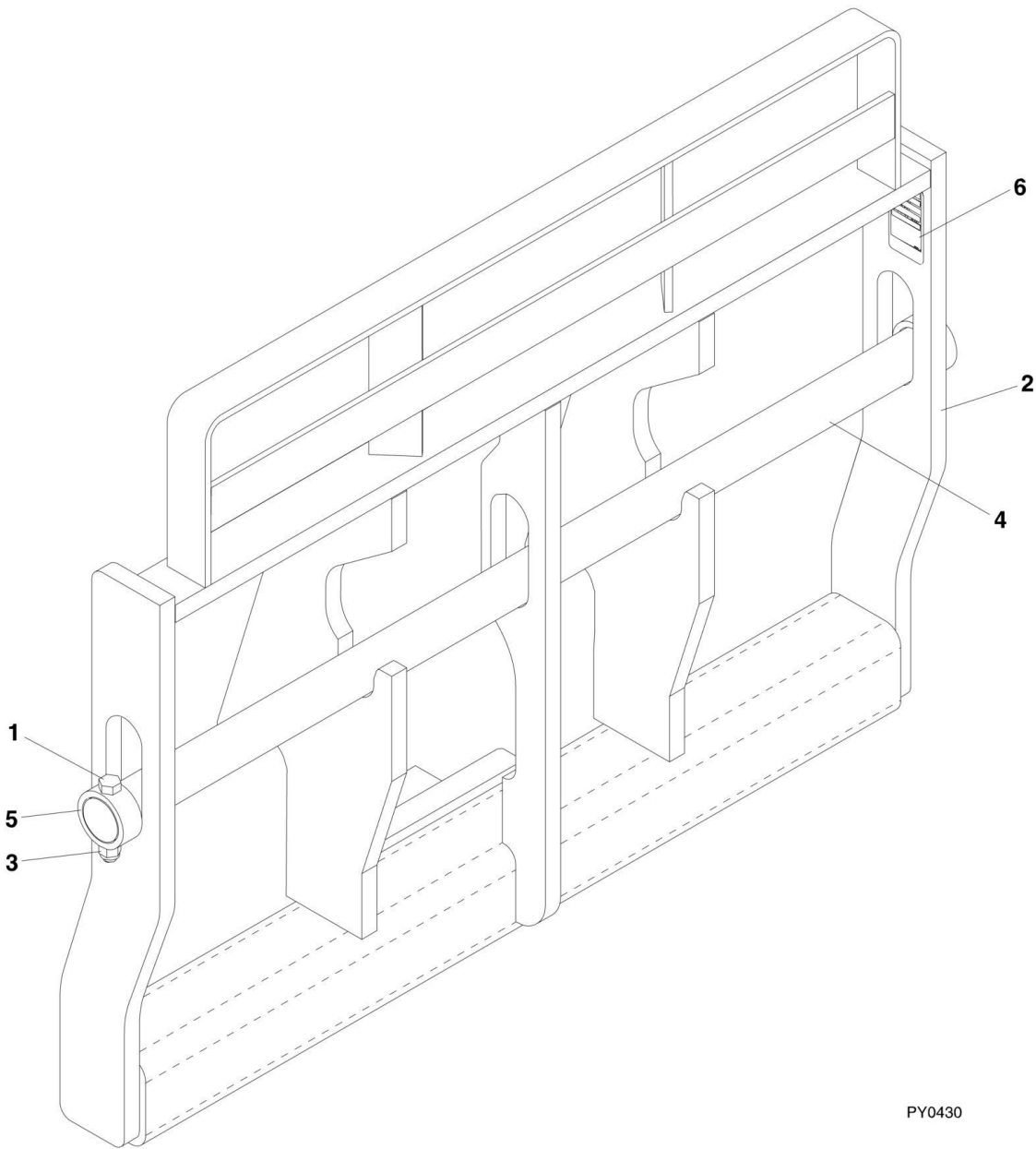
## SECTION 3 - ATTACHMENTS

**FIGURE 3-1. CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                      | REV |
|------|-------------|-----|------------------------------------------------------------------|-----|
|      | 48040       | 1   | 50IN STANDARD CARRIAGE ASSY, (includes items 1 thru 5 & item 10) | 3   |
|      | 48042       | 1   | 74IN FRAMERS CARRIAGE ASSY, (includes items 1 thru 5 & item 10)  | 3   |
| 1    | N.S.S.      | 1   | CARRIAGE WELDMENT, (50in)                                        |     |
| 1    | N.S.S.      | 1   | CARRIAGE WELDMENT, (74in)                                        |     |
| 2    | 10138066    | 2   | FORK SHAFT WASHER                                                |     |
| 3    | 10703906    | 2   | COTTER PIN, 3/8X3                                                |     |
| 4    | 10223049    | 1   | FORK SHAFT, (50in)                                               |     |
| 4    | 10124495    | 1   | FORK SHAFT, (74in)                                               |     |
| 5    | 10224752    | 2   | CARRIAGE SAFETY DECAL                                            |     |
| 8    |             | Ref | QUICK ATTACH GROUP, (See BOOM SECTION for Breakdown)             |     |
| 9    |             | Ref | FORK, (See FORKS for Breakdown)                                  |     |
| 10   | N.S.S.      | 1   | SN PLATE, (not shown)                                            |     |

**SECTION 3 - ATTACHMENTS**

**FIGURE 3-2. CARRIAGE ASSEMBLY (SN 0160037900 through 0160051920, Including 0160037855)**



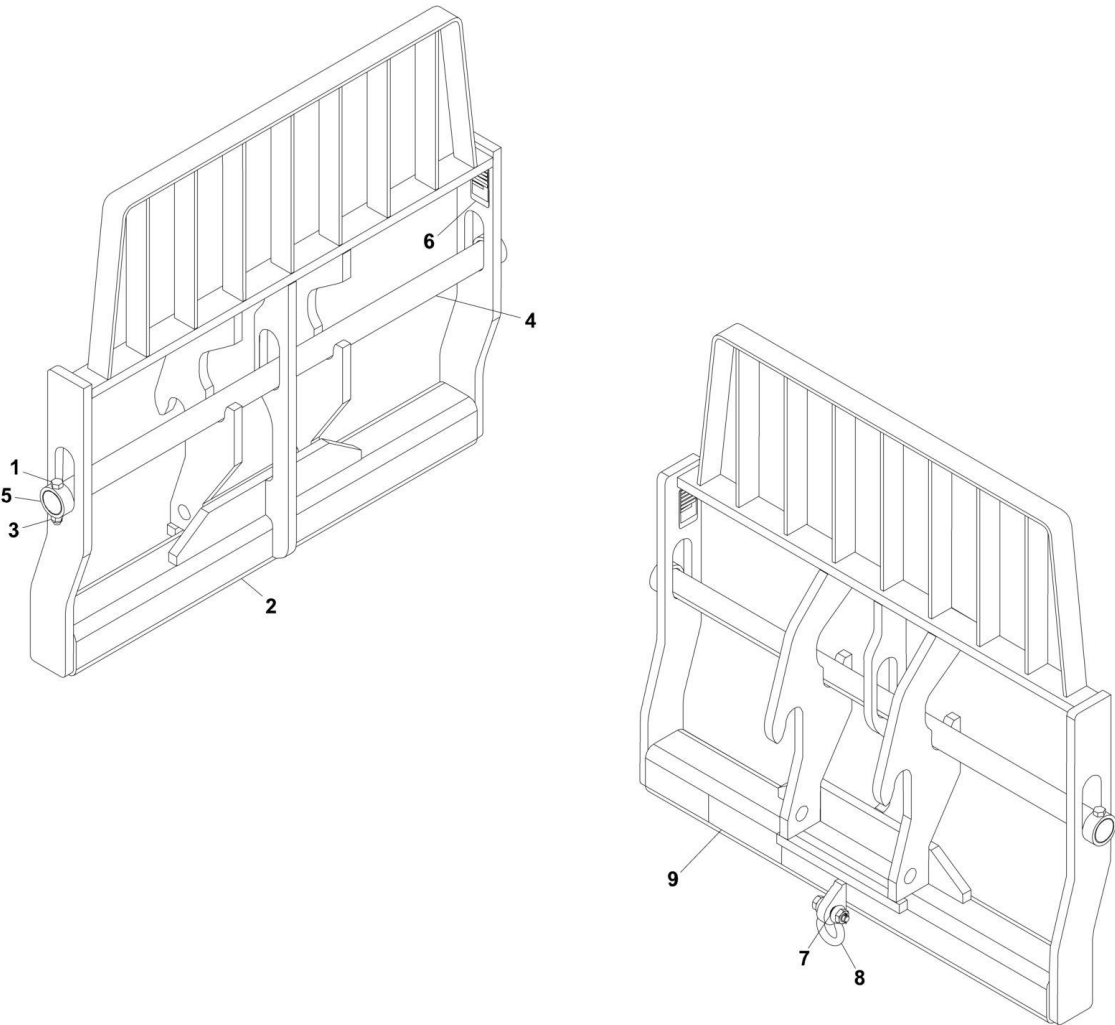
## SECTION 3 - ATTACHMENTS

**FIGURE 3-2. CARRIAGE ASSEMBLY (SN 0160037900 through 0160051920, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                             | REV |
|------|-------------|-----|-----------------------------------------------------------------------------------------|-----|
|      | 1170021     | 1   | 50IN TILT CARRIAGE, (includes all items)                                                | E   |
|      | 1170024     | 1   | 60IN TILT CARRIAGE, (includes all items)                                                | E   |
|      | 1170027     | 1   | 72IN TILT CARRIAGE, (includes items 1 thru 6) <b>(Prior to SN 0160042910)</b>           | E   |
|      | 1001132514  | 1   | 72IN TILT CARRIAGE, (includes items 1 thru 6) <b>(SN 0160042910 through 0160051920)</b> | B   |
| 1    | 0642032     | 2   | HEX HD CAPSCREW, 5/8-11X4, GR5                                                          |     |
| 2    | N.S.S.      | 1   | TILT CARRIAGE                                                                           |     |
| 3    | 3300240     | 2   | LOCKNUT, 5/8-11                                                                         |     |
| 4    | 3423275     | 1   | 50IN FORK PIN                                                                           |     |
| 4    | 3423242     | 1   | 60IN FORK PIN                                                                           |     |
| 4    | 3423276     | 1   | 72IN FORK PIN                                                                           |     |
| 5    | 90200003    | 2   | COLLAR                                                                                  |     |
| 6    | N.S.S.      | 1   | SN PLATE                                                                                |     |

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FIGURE 3-3. CARRIAGE ASSEMBLY (SN 0160051921 to Present)



ART\_31200069-3-3

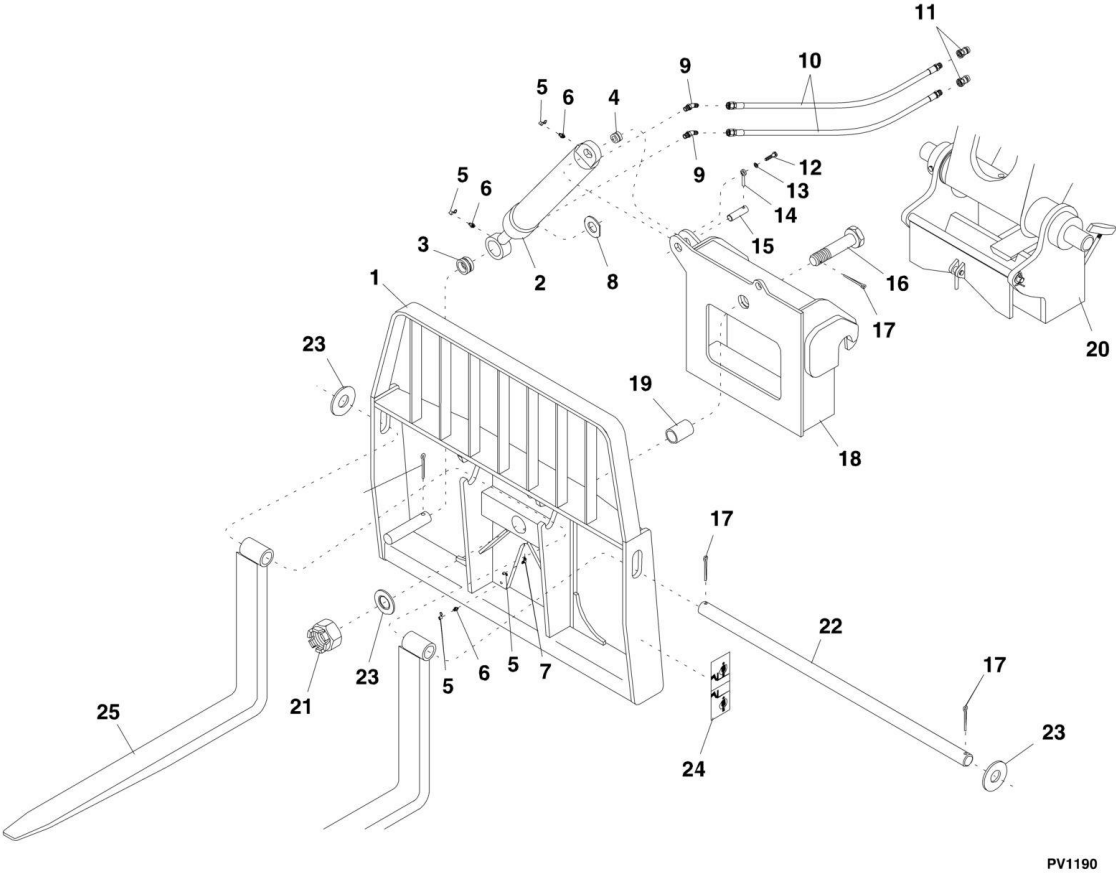
## SECTION 3 - ATTACHMENTS

**FIGURE 3-3. CARRIAGE ASSEMBLY (SN 0160051921 to Present)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                    | REV |
|------|-------------|-----|------------------------------------------------|-----|
|      | 1001146084  | 1   | 50IN TILT CARRIAGE, (includes items 1 thru 10) | C   |
|      | 1001146086  | 1   | 60IN TILT CARRIAGE, (includes items 1 thru10)  | C   |
|      | 1001146088  | 1   | 72IN TILT CARRIAGE, (includes items 1 thru 10) | C   |
| 1    | 0642032     | 2   | HEX HD CAPSCREW, 5/8-11X4, GR5                 |     |
| 2    | N.S.S.      | 1   | TILT CARRIAGE                                  |     |
| 3    | 3300240     | 2   | LOCKNUT, 5/8-11                                |     |
| 4    | 3423275     | 1   | 50IN FORK PIN                                  |     |
| 4    | 3423242     | 1   | 60IN FORK PIN                                  |     |
| 4    | 3423276     | 1   | 72IN FORK PIN                                  |     |
| 5    | 90200003    | 2   | COLLAR                                         |     |
| 6    | N.S.S.      | 1   | SN PLATE                                       |     |
| 7    | 1001146159  | 1   | SLEEVE                                         |     |
| 8    | 1001146160  | 1   | SHACKLE                                        |     |
| 9    | 1001151561  | 1   | DANGER SWING LOADS DECAL                       |     |

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FIGURE 3-4. TILT CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)



PV1190



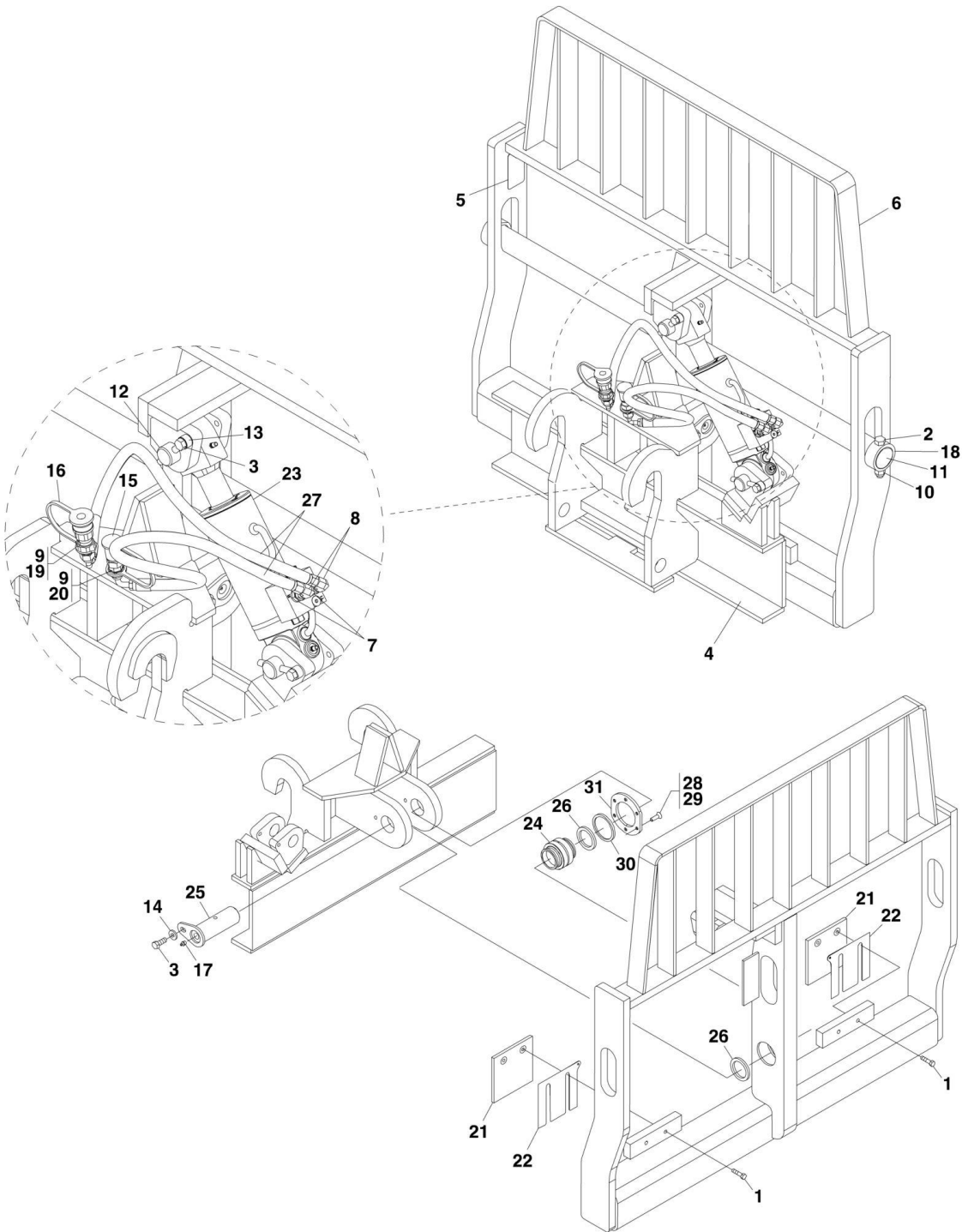
## SECTION 3 - ATTACHMENTS

**FIGURE 3-4. TILT CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                         | REV |
|------|-------------|-----|-------------------------------------------------------------------------------------|-----|
|      | 48041       | 1   | 50IN TILT CARRIAGE ASSY, (includes items 1 thru 19, 21 thru 24 & 26)                | 4   |
|      | 48043       | 1   | 74IN FRAME TILT CARRIAGE ASSY, (includes items 1 thru 19, 21 thru 24 & 26)          | 5   |
| 1    | N.S.S.      | 1   | TILT CARRIAGE WELDMENT, (50in)                                                      |     |
| 1    | N.S.S.      | 1   | TILT CARRIAGE WELDMENT, (74in)                                                      |     |
| 2    |             | Ref | TILT CARRIAGE CYLINDER, (includes items 3 & 4), (See OPTIONS SECTION for Breakdown) |     |
| 3    | 10116228    | 1   | CYLINDER BUSHING, (rod end)                                                         |     |
| 4    | 10116227    | 1   | CYLINDER BUSHING, (base end)                                                        |     |
| 5    | 10732689    | 5   | GREASE FITTING COVER                                                                |     |
| 6    | 11160110    | 4   | GREASE FITTING                                                                      |     |
| 7    | 11160140    | 1   | GREASE FITTING, 90                                                                  |     |
| 8    | 10116323    | 1   | SPECIAL WASHER                                                                      |     |
| 9    | 2220501     | 2   | ELBOW, 45, (includes o-ring)                                                        |     |
| 10   | 10837863    | 2   | HOSE ASSY, (o-rings ends)                                                           |     |
| 11   | 10866136    | 2   | MALE QUICK COUPLER, (includes o-ring)                                               |     |
| 11   | 10730518    | AR  | DUST CAP                                                                            |     |
| 12   | 14994050    | 1   | HEX HD CAPSCREW, 1/2-13X1-1/4                                                       |     |
| 13   | 11009080    | 1   | LOCKWASHER, 1/2                                                                     |     |
| 14   | 10135707    | 1   | LOCK PIN                                                                            |     |
| 15   | 10138014    | 1   | TILT CYLINDER PIN                                                                   |     |
| 16   | 10138065    | 1   | CARRIAGE BOLT                                                                       |     |
| 17   | 10703906    | 4   | COTTER PIN, 3/8X3                                                                   |     |
| 18   | 10338004    | 1   | INNER CARRIAGE                                                                      |     |
| 19   | 10138013    | 1   | PIVOT SLEEVE                                                                        |     |
| 20   |             | Ref | QUICK ATTACH GROUP ASSY, (See BOOM SECTION for Breakdown)                           |     |
| 21   | 10837794    | 1   | CASTLE HEX NUT, 2-12                                                                |     |
| 22   | 10223049    | 1   | FORK SHAFT, (50in)                                                                  |     |
| 22   | 10124495    | 1   | FORK SHAFT, (74in)                                                                  |     |
| 23   | 10138066    | 3   | FORK SHAFT WASHER                                                                   |     |
| 24   | 10224752    | 2   | CARRIAGE SAFETY DECAL                                                               |     |
| 25   |             | Ref | FORKS, (See FORKS for Breakdown)                                                    |     |
| 26   | N.S.S.      | 1   | SN PLATE, (not shown)                                                               |     |

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FIGURE 3-5. TILT CARRIAGE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)



ART\_31200069-3-5

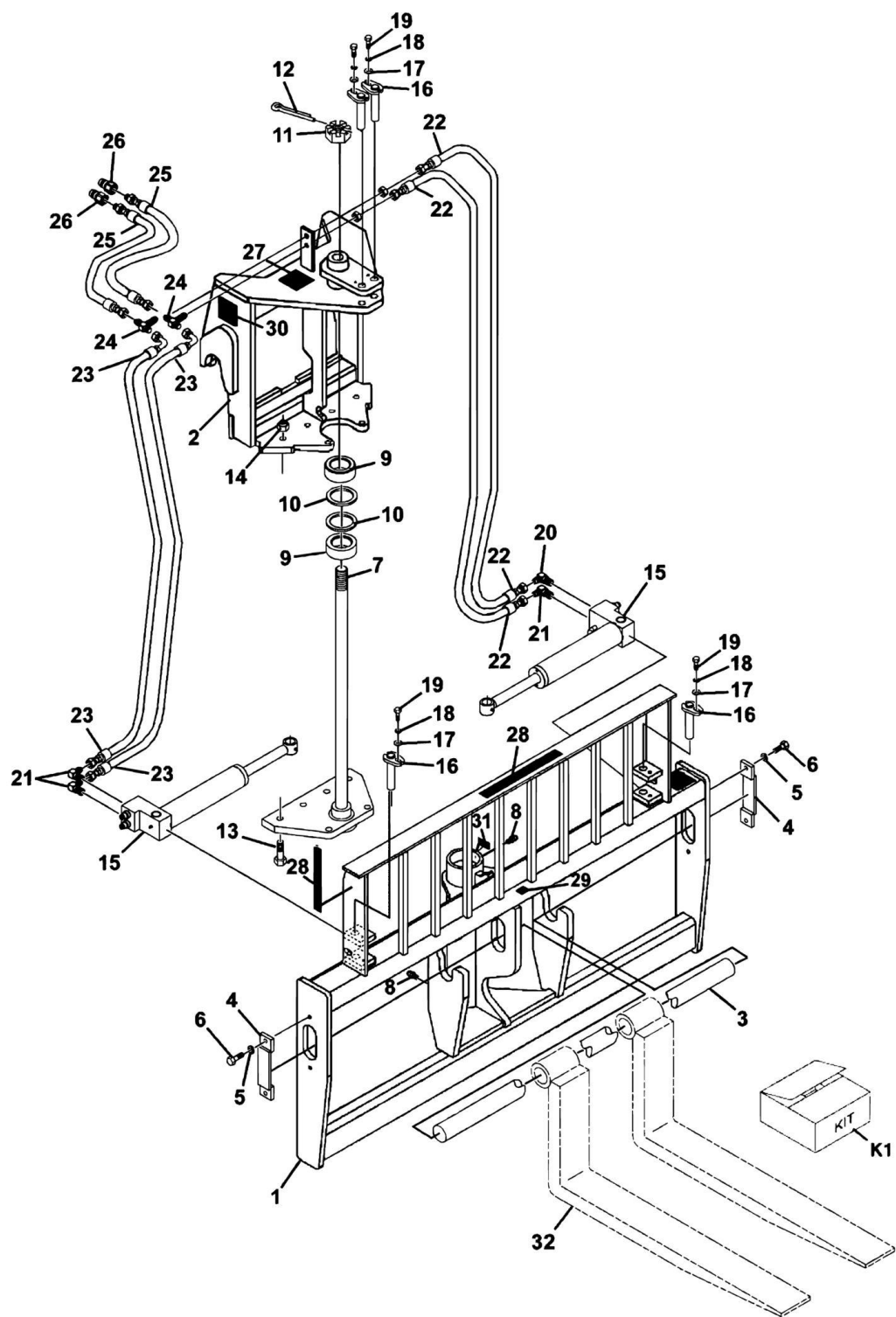
## SECTION 3 - ATTACHMENTS

**FIGURE 3-5. TILT CARRIAGE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                   | REV |
|------|-------------|-----|-------------------------------------------------------------------------------|-----|
|      | 1170054     | 1   | 50IN SIDE TILT CARRIAGE, (includes all items)                                 | J   |
|      | 1001101956  | 1   | 60IN SIDE TILT CARRIAGE, (includes all items)                                 | J   |
|      | 1170057     | 1   | 72IN SIDE TILT CARRIAGE, (includes all items)                                 | J   |
| 1    | 0641612     | 4   | HEX HD CAPSCREW, 3/8-16X1-1/2                                                 |     |
| 2    | 0642032     | 2   | HEX HD CAPSCREW, 5/8-11X4                                                     |     |
| 3    | 0681810     | 3   | HEX HD CAPSCREW, 1/2-13X1-1/4                                                 |     |
| 4    | 1001133072  | 1   | CARRIAGE BASE                                                                 |     |
| 5    | N.S.S.      | 1   | SN PLATE                                                                      |     |
| 6    | N.S.S.      | 1   | CARRIAGE, SIDE TILT                                                           |     |
| 7    | 2110606     | 2   | CONNECTOR                                                                     |     |
| 8    | 2172106     | 2   | CONNECTOR, 90                                                                 |     |
| 9    | 2110808     | 2   | CONNECTOR                                                                     |     |
| 10   | 3300240     | 2   | LOCK NUT, 5/8-11                                                              |     |
| 11   | 3423275     | 1   | FORK PIN, (50in)                                                              |     |
| 11   | 3423242     | 1   | FORK PIN, (60in)                                                              |     |
| 11   | 3423276     | 1   | FORK PIN, (72in)                                                              |     |
| 12   | 3423307     | 2   | PIN                                                                           |     |
| 13   | 3841203     | 2   | KEEPER                                                                        |     |
| 14   | 4891800     | 1   | WASHER, 1/2                                                                   |     |
| 15   | 8420053     | 1   | DUST CAP                                                                      |     |
| 16   | 8420055     | 1   | DUST PLUG                                                                     |     |
| 17   | 88671001    | 1   | GREASE FITTING                                                                |     |
| 18   | 90200003    | 2   | COLLAR                                                                        |     |
| 19   | 91403413    | 1   | CONNECTOR                                                                     |     |
| 20   | 91403414    | 1   | CONNECTOR                                                                     |     |
| 21   | 1001090063  | 2   | WEAR PAD                                                                      |     |
| 22   | 1001090064  | AR  | SHIM                                                                          |     |
| 23   |             | Ref | SIDE TILT CARRIAGE CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| 24   | 1001090140  | 1   | BEARING                                                                       |     |
| 25   | 1001099113  | 1   | PIN                                                                           |     |
| 26   | 1001099115  | 2   | SLEEVE                                                                        |     |
| 27   | 1001102378  | 2   | HOSE ASSY, 3/8X39                                                             |     |
| 28   | 0100011     | AR  | LOCTITE 242, (apply to item 29)                                               |     |
| 29   | 0741610     | 6   | FLAT HEAD SOCKET SCREW, 3/8-16                                                |     |
| 30   | 1001120914  | 1   | BEARING RETAINER SHIM                                                         |     |
| 31   | 1001120915  | 1   | BEARING RETAINER PLATE                                                        |     |

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FIGURE 3-6. SWING CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)



PV1721

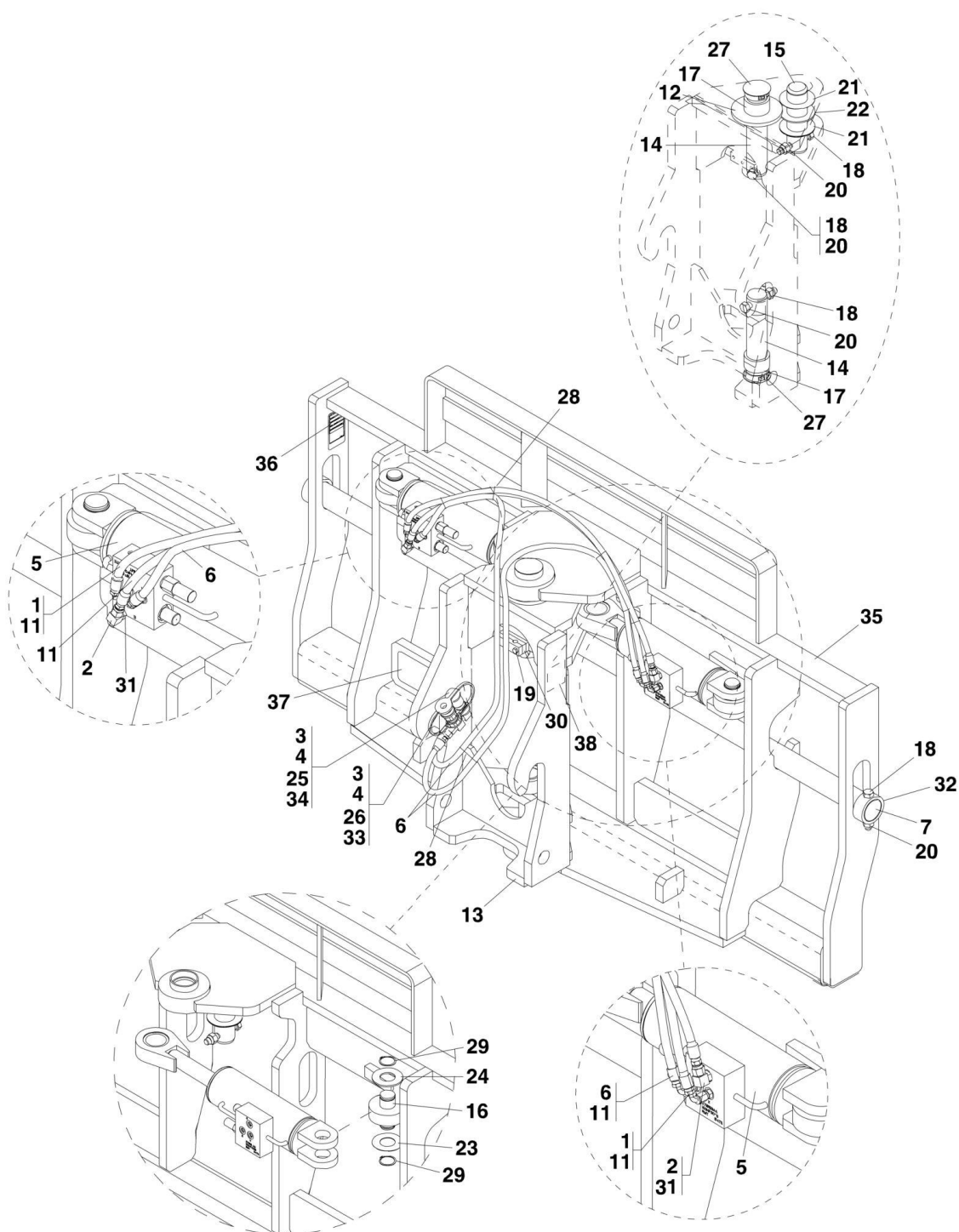
## SECTION 3 - ATTACHMENTS

**FIGURE 3-6. SWING CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                 | REV |
|------|-------------|-----|-------------------------------------------------------------|-----|
|      | 1100532     | 1   | 72IN WIDE SWING CARRIAGE ASSY, (includes items 1 thru 31)   | D   |
| 1    | N.S.S.      | 1   | SWING CARRIAGE                                              |     |
| 2    | N.S.S.      | 1   | SWING FRAME                                                 |     |
| 3    | 7029710     | 1   | FORK PIN                                                    |     |
| 4    | 7029690     | 2   | FORK PIN RETAINER WELDMENT                                  |     |
| 5    | 90554020    | 4   | LOCKWASHER, 1/2                                             |     |
| 6    | 7029691     | 4   | HEX HD CAPSCREW, 1/2-20X1-1/4                               |     |
| 7    | 7029693     | 1   | SWING POST WELDMENT                                         |     |
| 8    | 7029714     | 4   | LUBE FITTING, 1/8                                           |     |
| 9    | 7029694     | 2   | BEARING                                                     |     |
| 10   | 7029695     | 2   | THRUST WASHER                                               |     |
| 11   | 7029713     | 1   | CASTLE NUT, 1-1/2                                           |     |
| 12   | 7029700     | 1   | COTTER PIN, 1/4X2-1/2                                       |     |
| 13   | 7029697     | 6   | HEX HD CAPSCREW, 3/4-16X3                                   |     |
| 14   | 7029698     | 6   | LOCKNUT, 3/4-16                                             |     |
| 15   | 7029590     | 2   | CYLINDER ASSY                                               |     |
| 16   | 7029702     | 4   | LOCKING PIN                                                 |     |
| 17   | 7029703     | 4   | FLAT WASHER, 3/8                                            |     |
| 18   | 90554042    | 4   | LOCKWASHER, 3/8                                             |     |
| 19   | 7029704     | 4   | HEX HD CAPSCREW, 3/8-24X1                                   |     |
| 20   | 7029705     | 1   | ELBOW, 90                                                   |     |
| 21   | 90554065    | 3   | ELBOW, 90                                                   |     |
| 22   | 7029706     | 2   | HOSE ASSY                                                   |     |
| 23   | 7029707     | 2   | HOSE ASSY                                                   |     |
| 24   | 7029708     | 2   | TEE, (includes nut)                                         |     |
| 25   | 7029709     | 2   | HOSE ASSY                                                   |     |
| 26   | 7029692     | 2   | MALE QUICK COUPLER                                          |     |
| 27   | 7029711     | 1   | HIGH PRESSURE WARNING DECAL                                 |     |
| 28   | 7029699     | 2   | MAJOR DECAL, (small)                                        |     |
| 28   | 7029701     | 1   | MAJOR DECAL, (large)                                        |     |
| 29   | 90554016    | 1   | USA DECAL                                                   |     |
| 30   | 90554018    | 2   | PINCH POINT DANGER DECAL                                    |     |
| 31   | 7029712     | 6   | GREASE DECAL                                                |     |
| 32   |             | Ref | FORKS, (See FORKS for Breakdown)                            |     |
| 33   |             | Ref | LOAD CHART, (not shown), (See DECALS SECTION for Breakdown) |     |
| 34   | N.S.S.      | 1   | SN PLATE, (not shown)                                       |     |
| K1   | 70021452    | 1   | CYLINDER SEAL KIT                                           |     |

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**FIGURE 3-7. SWING CARRIAGE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)**



PAP3360

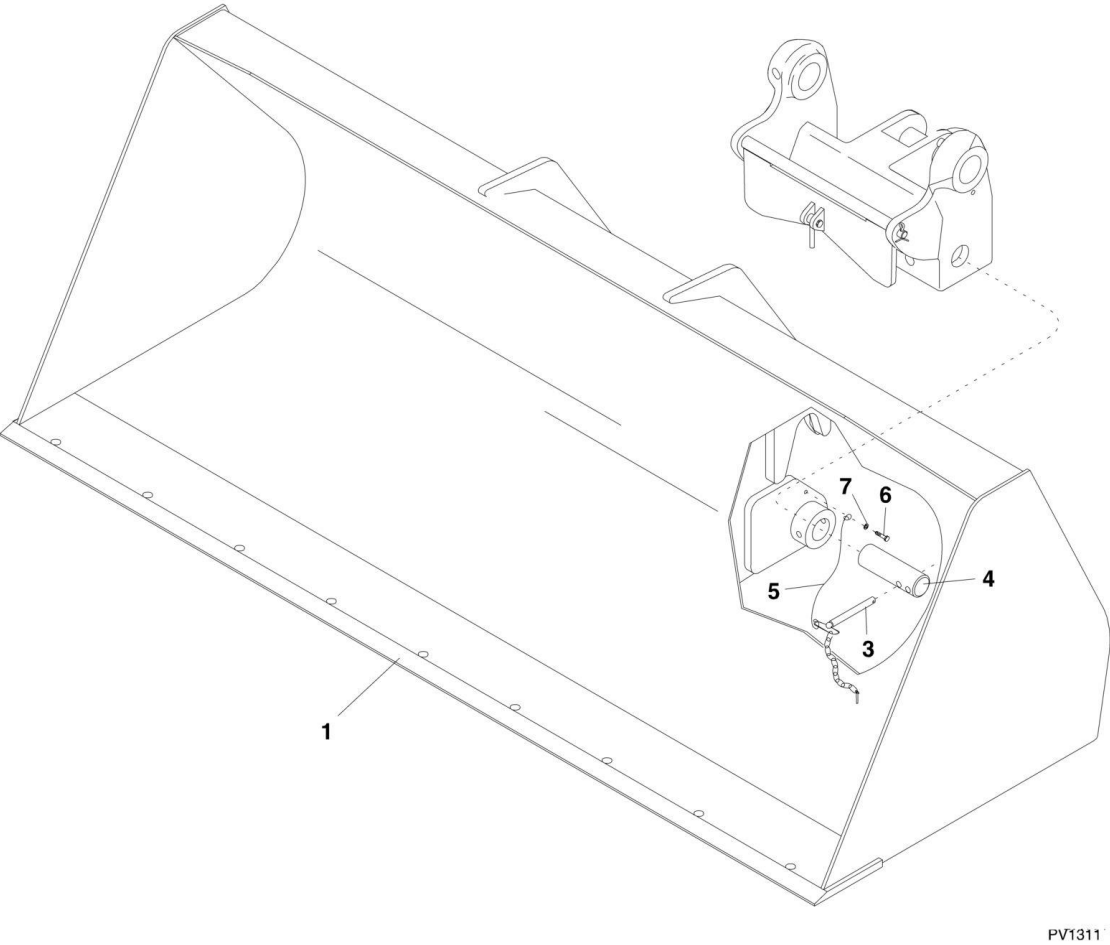
## SECTION 3 - ATTACHMENTS

**FIGURE 3-7. SWING CARRIAGE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                        | REV |
|------|-------------|-----|------------------------------------------------------------------------------------|-----|
|      | 1001095418  | 1   | 72IN 90, SWING CARRIAGE, (includes all items)                                      | K   |
| 1    | 2220415     | 4   | CONNECTOR                                                                          |     |
| 2    | 2220473     | 2   | CONNECTOR, 90                                                                      |     |
| 3    | 2220609     | 2   | CONNECTOR                                                                          |     |
| 4    | 2220628     | 2   | CONNECTOR, 90                                                                      |     |
| 5    |             | Ref | 72IN 90, SWING CARRIAGE CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| 6    | 2717287     | 2   | HOSE ASSY, 1/4X58                                                                  |     |
| 7    | 3423276     | 1   | PIN                                                                                |     |
| 11   | 6604662     | 2   | HOSE ASSY, 1/4X40.5                                                                |     |
| 12   | 7062922     | 1   | WASHER                                                                             |     |
| 13   | N.S.S.      | 1   | PIVOT WELDMENT                                                                     |     |
| 14   | 7110702     | 2   | PIVOT PIN                                                                          |     |
| 15   | 7110712     | 1   | PIN                                                                                |     |
| 16   | 7110722     | 2   | PIN                                                                                |     |
| 17   | 8065062     | 2   | BUSHING                                                                            |     |
| 18   | 8303634     | 5   | HEX HD CAPSCREW, 5/8-11X4, GR5                                                     |     |
| 19   | 8303715     | 3   | HEX HD CAPSCREW, 5/16-18X1.5, GR5                                                  |     |
| 20   | 8305643     | 5   | HEX NUT, 5/8-11                                                                    |     |
| 21   | 8307904     | AR  | SHIM                                                                               |     |
| 22   | 8307918     | AR  | SHIM                                                                               |     |
| 23   | 8310160     | AR  | SHIM                                                                               |     |
| 24   | 8310161     | AR  | SHIM                                                                               |     |
| 25   | 8420053     | 1   | DUST CAP                                                                           |     |
| 26   | 8420055     | 1   | DUST PLUG                                                                          |     |
| 27   | 8580315     | 2   | PLUG                                                                               |     |
| 28   | 8584001     | 5   | TIE WRAP                                                                           |     |
| 29   | 8642207     | 4   | RETAINING RING                                                                     |     |
| 30   | 8769132     | 2   | CLAMP                                                                              |     |
| 31   | 8770016     | 2   | CONNECTOR                                                                          |     |
| 32   | 90200003    | 2   | COLLAR                                                                             |     |
| 33   | 91403413    | 1   | CONNECTOR                                                                          |     |
| 34   | 91403414    | 1   | CONNECTOR                                                                          |     |
| 35   | N.S.S.      | 1   | CARRIAGE FRAME                                                                     |     |
| 36   | N.S.S.      | 1   | SN PLATE                                                                           |     |
| 37   | 1001110704  | 1   | WARNING CRUSH HAZARD DECAL                                                         |     |
| 38   | 1001111190  | 2   | WARNING DECAL                                                                      |     |

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FIGURE 3-8. UTILITY BUCKET (Prior to SN 0160037900, Excluding 0160037855)





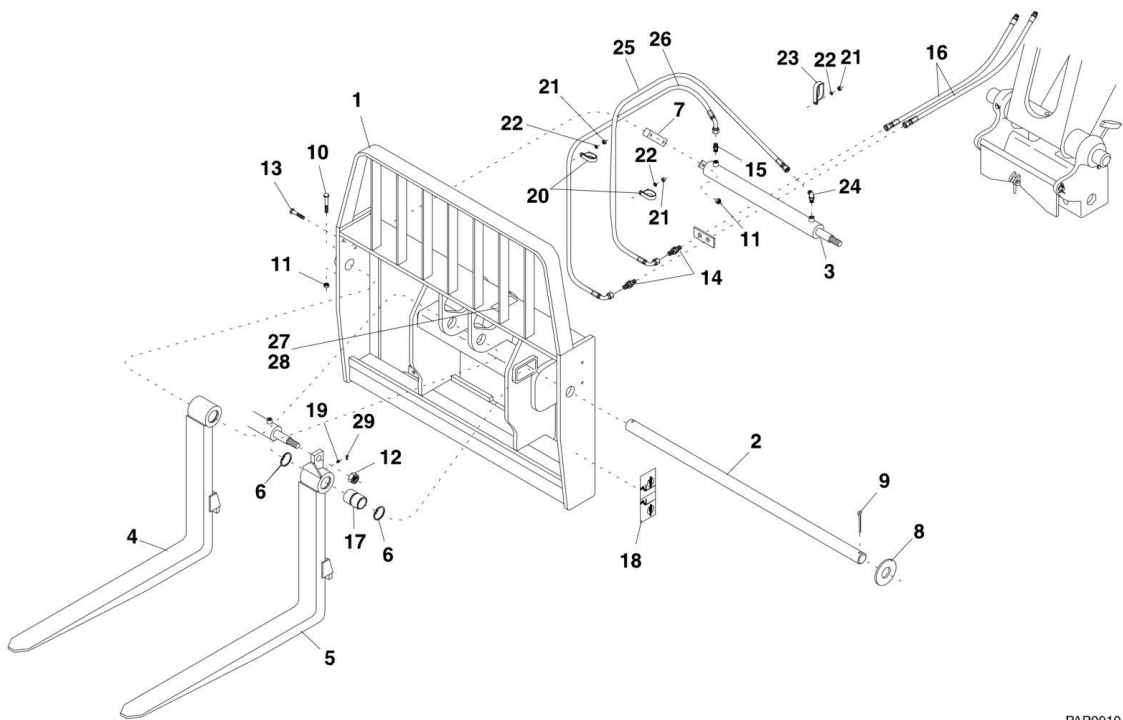
## SECTION 3 - ATTACHMENTS

**FIGURE 3-8. UTILITY BUCKET (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                  | REV |
|------|-------------|-----|------------------------------------------------------------------------------|-----|
|      | 1101435     | 1   | UTILITY BUCKET ASSY 1.25 CU YD, (includes all items)                         | C   |
| 1    | 10439995    | 1   | UTILITY BUCKET WELDMENT                                                      |     |
| 2    | 10239973    | 1   | CAUTION DECAL, (not shown), (apply to inside back cover of operators manual) |     |
| 3    | 10867583    | 2   | HITCH PIN                                                                    |     |
| 4    | 10168505    | 2   | PIN                                                                          |     |
| 5    | 10867584    | 2   | PIN ATTACHMENT CABLE                                                         |     |
| 6    | 10700202    | 2   | HEX HD CAPSCREW, 3/8-16X3/4                                                  |     |
| 7    | 10701404    | 2   | FLAT WASHER, 3/8                                                             |     |

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FIGURE 3-9. 50IN SINGLE FORK POSITIONING CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)



PAP0010

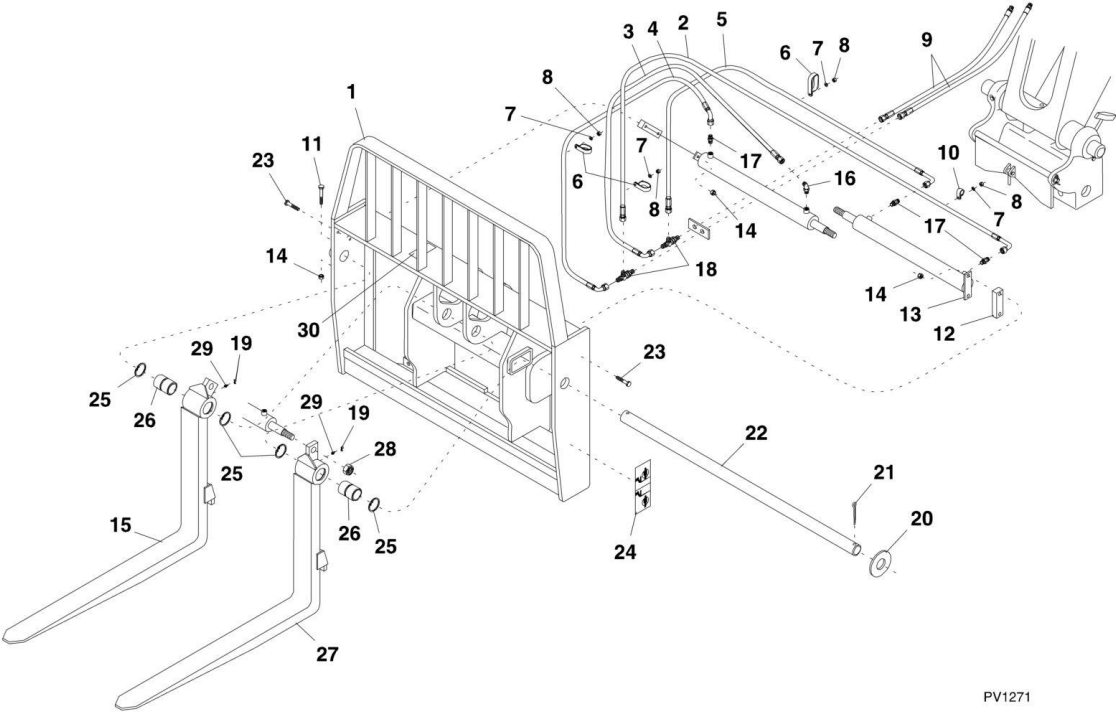
## SECTION 3 - ATTACHMENTS

**FIGURE 3-9. 50IN SINGLE FORK POSITIONING CARRIAGE ASSEMBLY (Prior to SN 0160037900,  
Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                           | REV |
|------|-------------|-----|-----------------------------------------------------------------------|-----|
|      | 1100469     | 1   | 50IN DUAL FORK POSITIONING CARRIAGE ASSEMBLY,<br>(includes all items) | C   |
| 1    | 10465660    | 1   | CARRIAGE ASSY                                                         |     |
| 2    | 10165685    | 1   | FORK SHAFT                                                            |     |
| 3    |             | Ref | FORK POSITIONING CYLINDER, (See OPTIONS SECTION for<br>Breakdown)     |     |
| 4    | 10238569    | 1   | RH 48IN PALLET FORK                                                   |     |
| 5    | 1100439     | 1   | LH 48IN PALLET FORK                                                   |     |
| 6    | 10727322    | 2   | INTERNAL SNAP RING                                                    |     |
| 7    | 10138493    | 1   | SPACER                                                                |     |
| 8    | 10701419    | 1   | FORK SHAFT WASHER                                                     |     |
| 9    | 10703906    | 1   | COTTER PIN, 3/8X3                                                     |     |
| 10   | 10700411    | 1   | HEX HD CAPSCREW, 1/2-13X3-1/4                                         |     |
| 11   | 10705004    | 3   | HEX LOCKNUT, 1/2-13, GRC                                              |     |
| 12   | 10705034    | 1   | HEX LOCKNUT, 1-1/4, GRC                                               |     |
| 13   | 10700409    | 2   | HEX HD CAPSCREW, 1/2-13X2-3/4                                         |     |
| 14   | 2230024     | 2   | BULKHEAD UNION                                                        |     |
| 15   | 2220371     | 1   | CONNECTOR, (includes o-ring)                                          |     |
| 16   | 10837863    | 2   | HOSE ASSY                                                             |     |
| 17   | 10165693    | 1   | BUSHING                                                               |     |
| 18   | 10224752    | 2   | CARRIAGE SAFETY DECAL                                                 |     |
| 19   | 10716611    | 1   | GREASE FITTING                                                        |     |
| 20   | 10717810    | 2   | HOSE CLAMP                                                            |     |
| 21   | 10701201    | 3   | HEX NUT, 5/16-18, GR8                                                 |     |
| 22   | 10701309    | 3   | LOCKWASHER, 5/16                                                      |     |
| 23   | 10717553    | 1   | HOSE CLAMP                                                            |     |
| 24   | 2220501     | 1   | ELBOW, 45, (includes o-ring)                                          |     |
| 25   | 10719736    | 1   | HOSE ASSY                                                             |     |
| 26   | 10837523    | 1   | HOSE ASSY                                                             |     |
| 27   | N.S.S.      | 1   | SN PLATE                                                              |     |
| 28   | 10837315    | 4   | METAL TACK                                                            |     |
| 29   | 10732689    | 1   | GREASE FITTING COVER                                                  |     |

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FIGURE 3-10. 50IN DUAL FORK POSITIONING CARRIAGE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)



PV1271

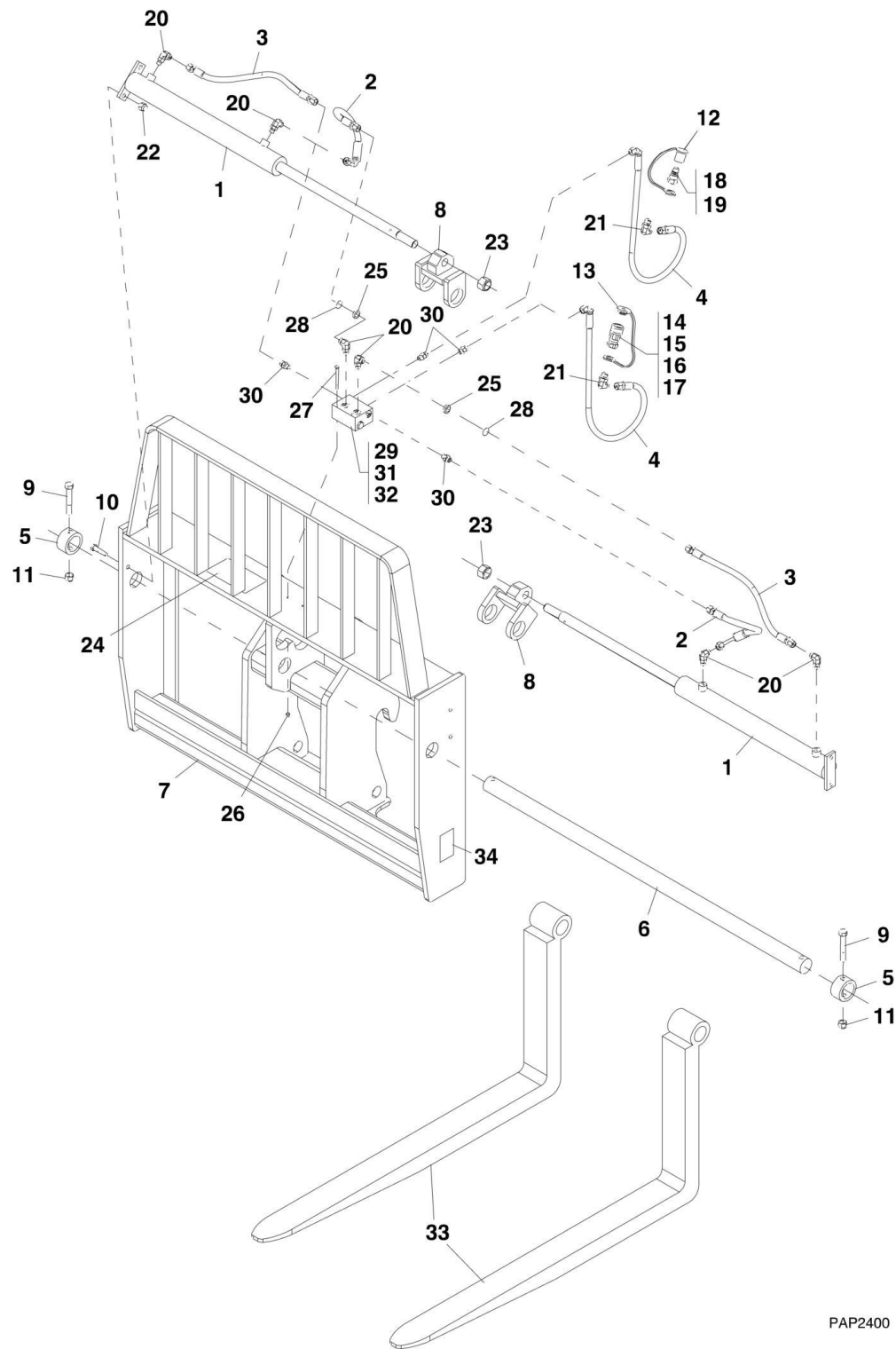
## SECTION 3 - ATTACHMENTS

**FIGURE 3-10. 50IN DUAL FORK POSITIONING CARRIAGE ASSEMBLY (Prior to SN 0160037900,  
Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                           | REV |
|------|-------------|-----|-----------------------------------------------------------------------|-----|
|      | 10448045    | 1   | 50IN DUAL FORK POSITIONING CARRIAGE ASSEMBLY,<br>(includes all items) | G   |
| 1    | 10465660    | 1   | CARRIAGE ASSY                                                         |     |
| 2    | 10837517    | 1   | HOSE ASSY                                                             |     |
| 3    | 10719736    | 1   | HOSE ASSY                                                             |     |
| 4    | 10837523    | 1   | HOSE ASSY                                                             |     |
| 5    | 10837519    | 1   | HOSE ASSY                                                             |     |
| 6    | 10717810    | 3   | HOSE CLAMP                                                            |     |
| 7    | 10701309    | 4   | LOCKWASHER, 5/16                                                      |     |
| 8    | 10701201    | 4   | HEX NUT, 5/16-18, GR8                                                 |     |
| 9    | 10837863    | 2   | HOSE ASSY                                                             |     |
| 10   | 10717553    | 1   | HOSE CLAMP                                                            |     |
| 11   | 10700411    | 4   | HEX HD CAPSCREW, 1/2-13X3-1/4                                         |     |
| 12   | 10138493    | 2   | SPACER                                                                |     |
| 13   |             | Ref | FORK POSITIONING CYLINDER, (See OPTIONS SECTION for<br>Breakdown)     |     |
| 14   | 10705004    | 5   | HEX LOCKNUT, 1/2-13, GRC                                              |     |
| 15   | 10365686    | 1   | RH 42IN PALLET FORK                                                   |     |
| 16   | 2220501     | 1   | ELBOW, 45, (includes o-ring)                                          |     |
| 17   | 2220371     | 3   | CONNECTOR, (includes o-ring)                                          |     |
| 18   | 10725302    | 2   | BULKHEAD TEE                                                          |     |
| 19   | 10732689    | 2   | GREASE FITTING COVER                                                  |     |
| 20   | 10701419    | 2   | FORK SHAFT WASHER                                                     |     |
| 21   | 10703906    | 2   | COTTER PIN, 3/8X3                                                     |     |
| 22   | 10165685    | 1   | FORK SHAFT                                                            |     |
| 23   | 10700409    | 4   | HEX HD CAPSCREW, 1/2-13X2-3/4                                         |     |
| 24   | 10224752    | 2   | CARRIAGE SAFETY DECAL                                                 |     |
| 25   | 10727322    | 4   | INTERNAL SNAP RING                                                    |     |
| 26   | 10165693    | 2   | BUSHING                                                               |     |
| 27   | 10365687    | 1   | LH 42IN PALLET FORK                                                   |     |
| 28   | 10705034    | 2   | HEX LOCKNUT, 1-1/4, GRC                                               |     |
| 29   | 10716611    | 2   | GREASE FITTING                                                        |     |
| 30   | N.S.S.      | 1   | SN PLATE                                                              |     |

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FIGURE 3-11. 50IN DUAL FORK POSITIONING CARRIAGE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)



PAP2400

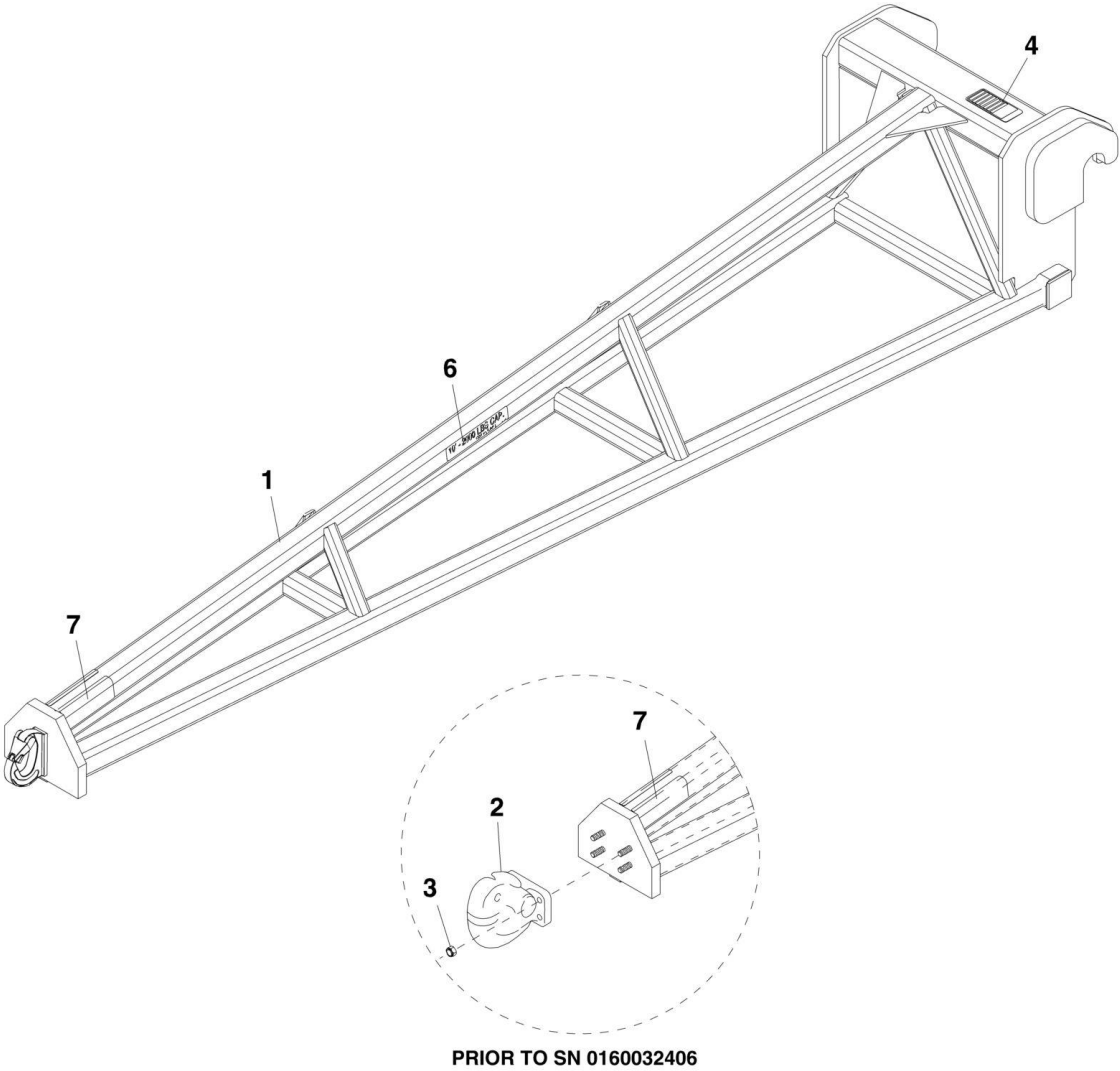
## SECTION 3 - ATTACHMENTS

**FIGURE 3-11. 50IN DUAL FORK POSITIONING CARRIAGE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                          | REV |
|------|-------------|-----|----------------------------------------------------------------------|-----|
|      | 7301568     | 1   | 50IN DUAL FORK POSITIONING CARRIAGE ASSY, (includes items 1 thru 32) | H   |
| 1    | 2717283     | 2   | FORK POSITIONING CYLINDER                                            |     |
| 1    | 8036733     | 1   | SEAL KIT                                                             |     |
| 2    | 2717160     | 2   | HOSE ASSY                                                            |     |
| 3    | 2717161     | 2   | HOSE ASSY                                                            |     |
| 4    | 2717162     | 2   | HOSE ASSY                                                            |     |
| 5    | 90200003    | 2   | LOCKING HUB                                                          |     |
| 6    | 90451058    | 1   | FORK SHAFT                                                           |     |
| 7    | 7301569     | 1   | 50IN CARRIAGE WELDMENT                                               |     |
| 8    | 7301579     | 2   | FORK ADAPTER WELDMENT                                                |     |
| 9    | 8303634     | 2   | HEX HD CAPSCREW, 5/8-11X4, GR5                                       |     |
| 10   | 8303658     | 4   | HEX HD CAPSCREW, 1/2-13X2, GR5                                       |     |
| 11   | 8305643     | 2   | HEX LOCKNUT, 5/8-11                                                  |     |
| 12   | 8420053     | 1   | DUST CAP                                                             |     |
| 13   | 8420055     | 1   | DUST PLUG                                                            |     |
| 14   | 91403413    | 1   | FEMALE QUICK DISCONNECT, (includes items 15 thru 17)                 |     |
| 15   | 8640029     | 1   | NOSE SEAL                                                            |     |
| 16   | 8640028     | 1   | COUPLER BODY SEAL                                                    |     |
| 17   | 8640032     | 1   | COUPLER BODY SEAL BACK-UP RING                                       |     |
| 18   | 91403414    | 1   | MALE QUICK DISCONNECT, (includes item 19)                            |     |
| 19   | 8640029     | 1   | NOSE SEAL                                                            |     |
| 20   | 2130606     | 6   | ELBOW, 90                                                            |     |
| 21   | 2130608     | 2   | ELBOW, 90                                                            |     |
| 22   | 8310302     | 4   | HEX LOCKNUT, 1/2-13                                                  |     |
| 23   | 10705034    | 2   | HEX LOCKNUT                                                          |     |
| 24   | 4110473     | 1   | HOSE ROUTE WARNING DECAL                                             |     |
| 25   | 7139918     | 2   | DISC ORIFICE                                                         |     |
| 26   | 8305624     | 2   | HEX LOCKNUT, 1/4-20                                                  |     |
| 27   | 8310435     | 2   | HEX HD CAPSCREW, 1/4-20X3-1/4, GR5                                   |     |
| 28   | 8630003     | 2   | O-RING                                                               |     |
| 29   | 4641502     | 1   | VALVE ASSY, (Includes items 30 thru 32)                              |     |
| 30   | 2110606     | 4   | ADAPTER                                                              |     |
| 31   | 4641501     | 1   | VALVE BODY                                                           |     |
| 32   | 2130606     | 2   | CONNECTOR                                                            |     |
| 33   | 7301408     | 2   | PALLET FORK, 60X100X1220mm                                           |     |
| 34   | N.S.S.      | 1   | SN PLATE                                                             |     |

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FIGURE 3-12. TRUSS BOOM ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)



PV1291



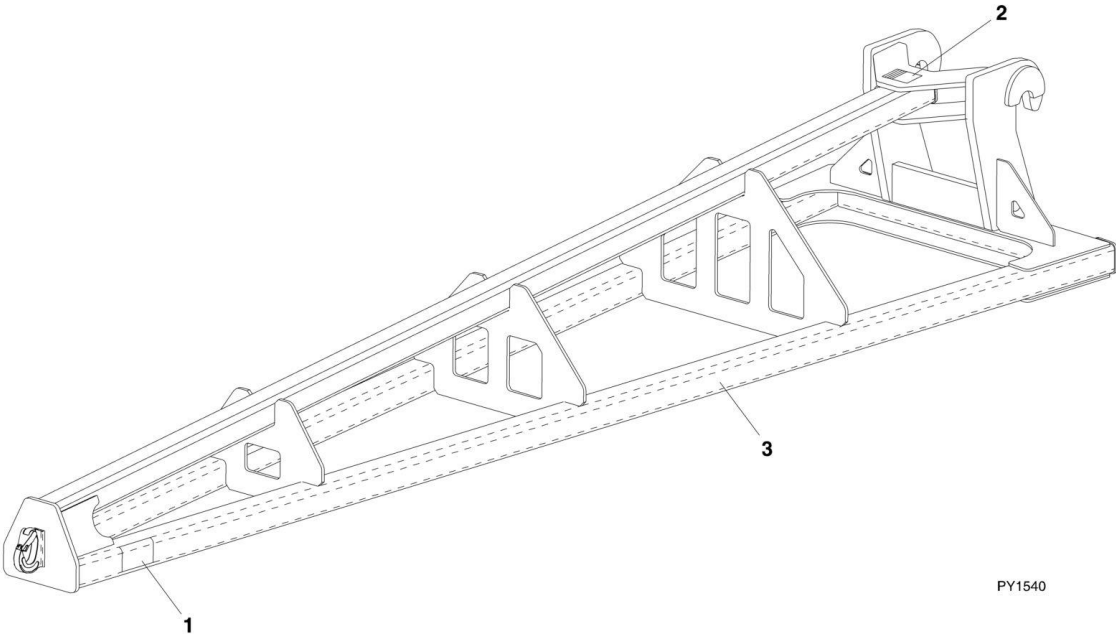
## SECTION 3 - ATTACHMENTS

**FIGURE 3-12. TRUSS BOOM ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                               | REV |
|------|-------------|-----|---------------------------------------------------------------------------|-----|
|      | 10338932    | 1   | 10FT TRUSS BOOM ASSY, (includes all items)                                | F   |
| 1    | N.S.S.      | 1   | TRUSS BOOM WELDMENT                                                       |     |
| 2    | 8382017     | 1   | PINTLE HOOK <b>(Prior to SN 0160032406)</b>                               |     |
| 3    | 10705029    | 4   | HEX LOCKNUT, 1/2-20, (torque to 90 lb-ft) <b>(Prior to SN 0160032406)</b> |     |
| 4    | N.S.S.      | 1   | SN PLATE                                                                  |     |
| 6    | 4110412     | 2   | LENGTH AND CAPACITY DECAL                                                 |     |
| 7    | 4110422     | 2   | SWING LOAD DANGER DECAL                                                   |     |

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**FIGURE 3-13. TRUSS BOOM ASSEMBLY (SN 0160037900 to Present, Including 0160037855)**



PY1540

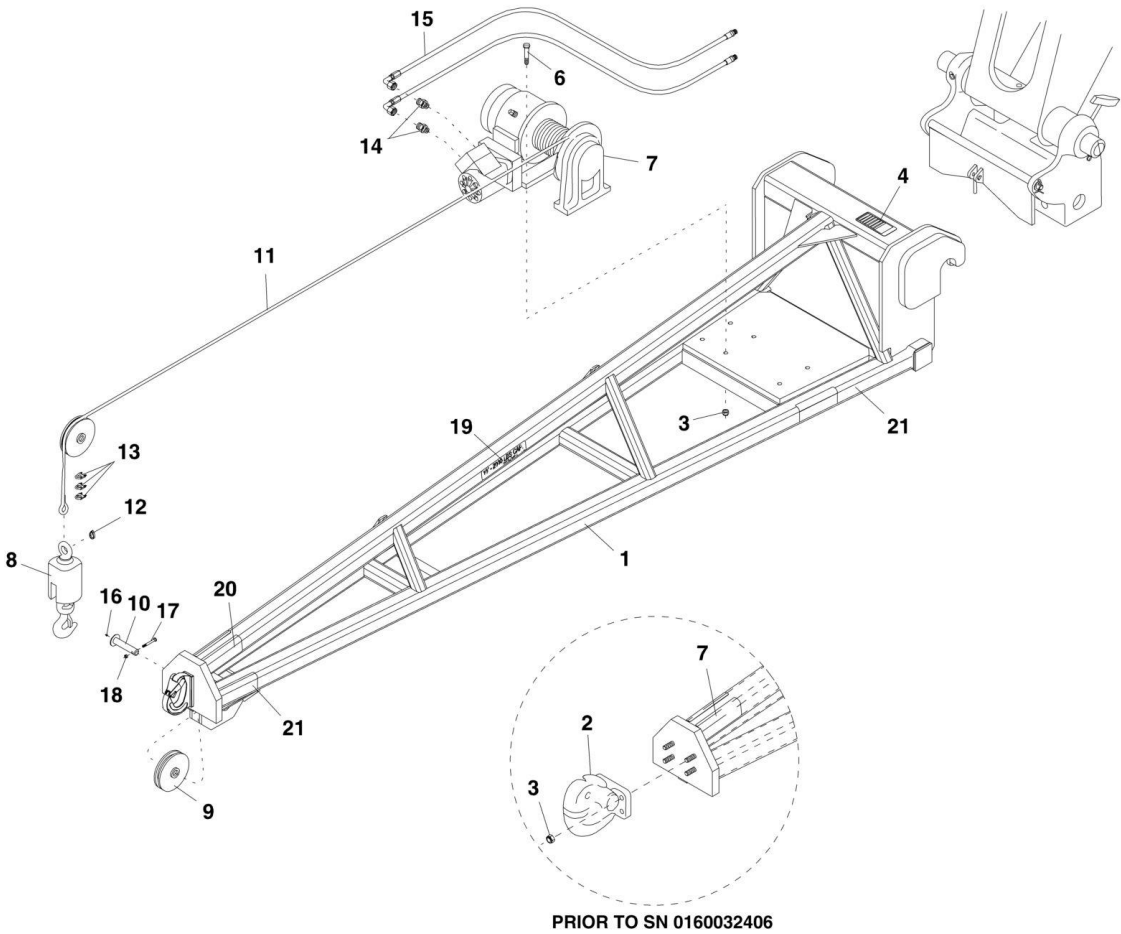
## SECTION 3 - ATTACHMENTS

**FIGURE 3-13. TRUSS BOOM ASSEMBLY (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                           | REV |
|------|-------------|-----|---------------------------------------|-----|
| 1    | 1001099902  | 1   | 12FT TRUSS BOOM, (includes all items) | A   |
|      | 1001099901  | 1   | 15FT TRUSS BOOM, (includes all items) | A   |
|      | 4110422     | 2   | DANGER SWINGING LOADS DECAL           |     |
|      | N.S.S.      | 1   | SN PLATE                              |     |
|      | N.S.S.      | 1   | TRUSS BOOM                            |     |

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FIGURE 3-14. 12FT TRUSS BOOM WITH WINCH (Prior to SN 0160037900, Excluding 0160037855)



PV1301

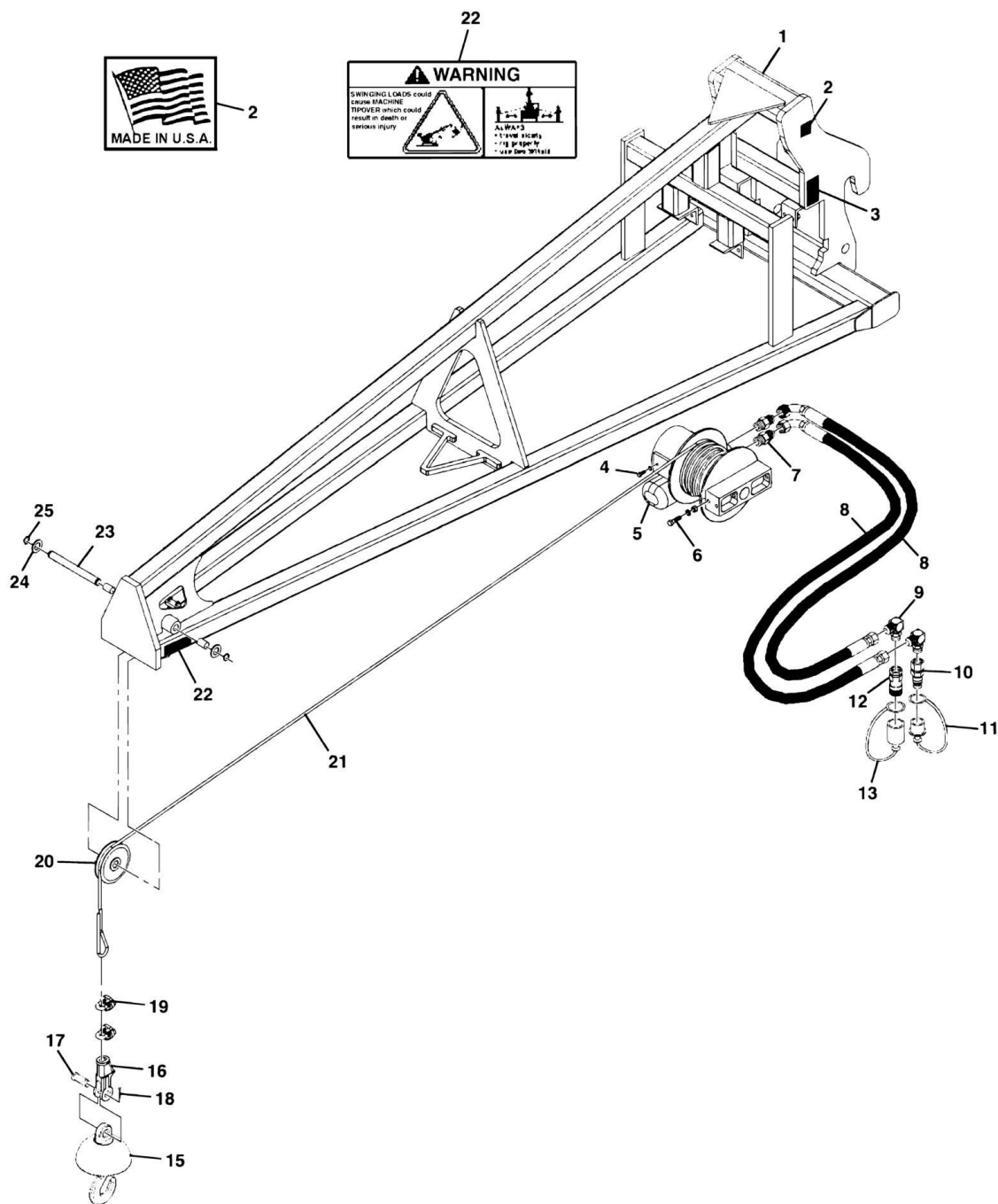
## SECTION 3 - ATTACHMENTS

**FIGURE 3-14. 12FT TRUSS BOOM WITH WINCH (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                 | REV |
|------|-------------|-----|-----------------------------------------------------------------------------|-----|
|      | 10338933    | 1   | 10FT TRUSS BOOM ASSEMBLY WITH WINCH, (includes all items)                   | H   |
| 1    | N.S.S.      | 1   | TRUSS BOOM WELDMENT                                                         |     |
| 2    | 8382017     | 1   | PINTLE HOOK ( <b>Prior to SN 0160032406</b> )                               |     |
| 3    | 10705029    | 10  | HEX LOCKNUT, 1/2-20, (torque to 90 lb-ft) ( <b>Prior to SN 0160032406</b> ) |     |
| 3    | 10705029    | 6   | HEX LOCKNUT, 1/2-20 ( <b>SN 0160032406 to Present</b> )                     |     |
| 4    | N.S.S.      | 1   | SN PLATE                                                                    |     |
| 6    | 10700484    | 6   | HEX HD CAPSCREW, 1/2-20X2-1/4, GR8                                          |     |
| 7    | 10727770    | 1   | TRUSS BOOM WINCH                                                            |     |
| 7    | 70021573    | 1   | WINCH MOTOR                                                                 |     |
| 8    | 10267585    | 1   | HOOK ASSY                                                                   |     |
| 9    | 10727327    | 1   | CABLE SHEAVE                                                                |     |
| 10   | 10125085    | 1   | PIN                                                                         |     |
| 11   | 1012355     | 1   | WIRE ROPE                                                                   |     |
| 12   | 10721556    | 1   | THIMBLE, 3/8IN                                                              |     |
| 13   | 10721557    | 3   | WIRE CLIP, 3/8                                                              |     |
| 14   | 2220374     | 2   | STRAIGHT ADAPTER                                                            |     |
| 15   | 10837865    | 2   | HYDRAULIC HOSE, 1/2X60IN                                                    |     |
| 16   | 10716611    | 1   | GREASE FITTING, 1/4-28                                                      |     |
| 17   | 10700009    | 1   | HEX HD CAPSCREW, 1/4-20X2                                                   |     |
| 18   | 10705000    | 1   | HEX NUT, 1/4-20                                                             |     |
| 19   | 4110412     | 2   | LENGTH AND CAPACITY DECAL                                                   |     |
| 20   | 4110422     | 2   | DANGER SWINGING LOADS DECAL                                                 |     |
| 21   | 4110252     | 4   | PINCH POINT DECAL                                                           |     |

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FIGURE 3-15. 12FT TRUSS BOOM WITH WINCH (SN 0160037900 to Present, Including 0160037855)



PAP3440

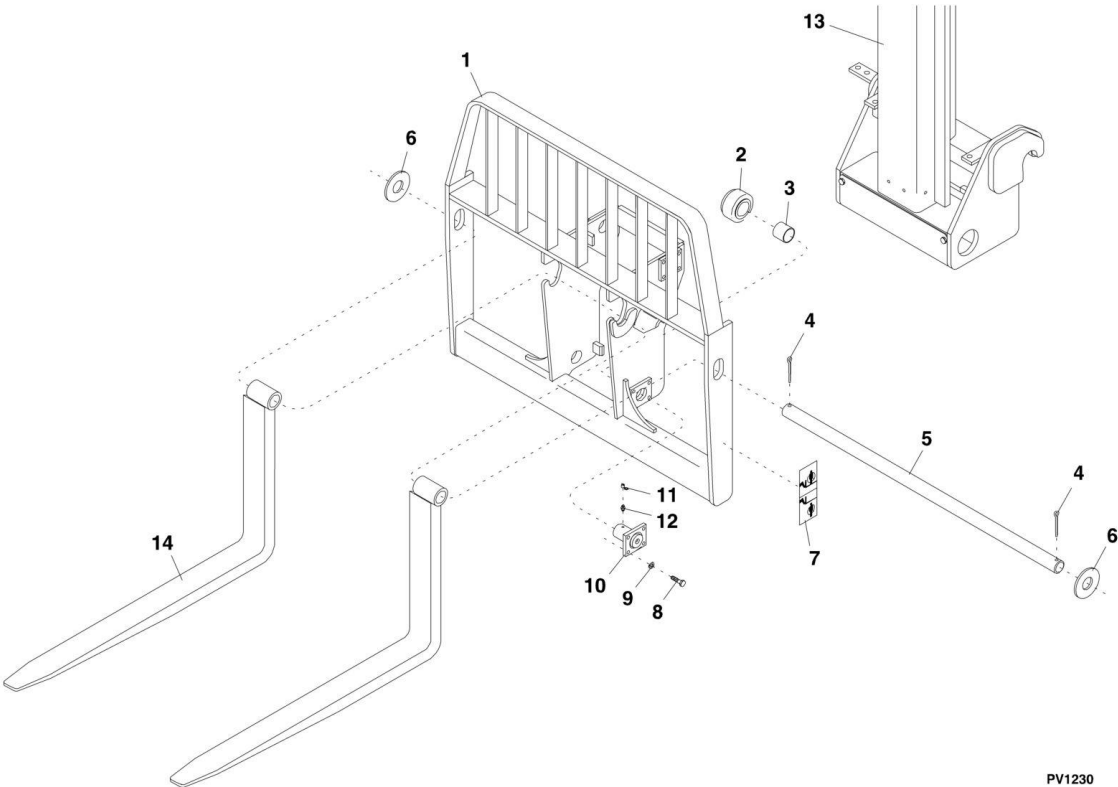
## SECTION 3 - ATTACHMENTS

**FIGURE 3-15. 12FT TRUSS BOOM WITH WINCH (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                      | REV |
|------|-------------|-----|--------------------------------------------------|-----|
|      | 1001099351  | 1   | 12FT TRUSS BOOM WITH WINCH, (includes all items) | F   |
| 1    | N.S.S.      | 1   | TRUSS BOOM FRAME                                 |     |
| 2    | 90554016    | 1   | USA DECAL                                        |     |
| 3    | N.S.S.      | 1   | SN PLATE                                         |     |
| 4    | 70021349    | 4   | HEX HD CAPSCREW, 3/8X1                           |     |
| 4    | 90554042    | 4   | LOCK WASHER, 3/8                                 |     |
| 5    | 70021921    | 1   | TRUSS BOOM WINCH MOTOR                           |     |
| 6    | N.S.S.      | 2   | HEX HD CAPSCREW, 1/2X1.75                        |     |
| 6    | 90554020    | 2   | LOCK WASHER, 1/2                                 |     |
| 6    | 90554054    | 2   | HEX NUT, 1/2                                     |     |
| 7    | 70021415    | 2   | CONNECTOR                                        |     |
| 8    | 70021977    | 2   | HOSE ASSY, 3/8X32                                |     |
| 9    | N.S.S.      | 1   | ELBOW, 90                                        |     |
| 10   | 7029692     | 1   | MALE QUICK COUPLER                               |     |
| 11   | 90554062    | 1   | DUST CAP                                         |     |
| 12   | 70021342    | 1   | FEMALE QUICK COUPLER                             |     |
| 13   | 90554076    | 1   | DUST COVER                                       |     |
| 15   | 70021978    | 1   | BALL SWIVEL WITH SAFETY HOOK                     |     |
| 16   | 70021979    | 1   | SOCKET ASSY, (includes items 17 & 18)            |     |
| 17   | N.S.S.      | 1   | PIN                                              |     |
| 18   | N.S.S.      | 1   | COTTER PIN                                       |     |
| 19   | N.S.S.      | 2   | CLAMP                                            |     |
| 20   | 70021935    | 1   | PULLEY                                           |     |
| 21   | 70022028    | 1   | CABLE                                            |     |
| 22   | 4110422     | 2   | WARNING SWINGING LOADS DECAL                     |     |
| 23   | N.S.S.      | 1   | PIN                                              |     |
| 24   | N.S.S.      | 2   | FLAT WASHER, 1                                   |     |
| 25   | N.S.S.      | 2   | SNAP RING                                        |     |

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FIGURE 3-16. CARRIAGE ASSEMBLY WITH 8FT VERTICAL MAST (NON-TILT) (Prior to SN 0160037900, Excluding 0160037855)





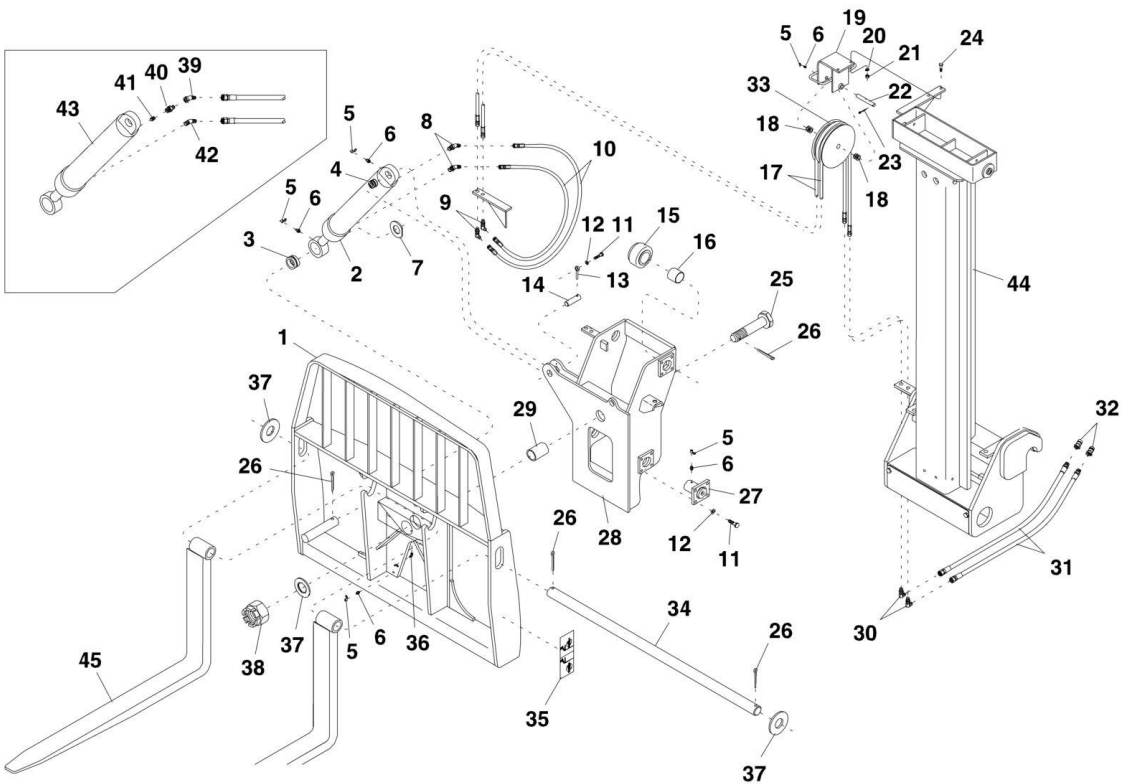
## SECTION 3 - ATTACHMENTS

**FIGURE 3-16. CARRIAGE ASSEMBLY WITH 8FT VERTICAL MAST (NON-TILT) (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                  | REV |
|------|-------------|-----|------------------------------------------------------------------------------|-----|
|      | 48056       | 1   | CARRIAGE ASSY WITH 8FT VERTICAL MAST, (non-tilt), (includes items 1 thru 14) | 3   |
| 1    | N.S.S.      | 1   | TOWER CARRIAGE                                                               |     |
| 2    | 10226150    | 4   | TOWER ROLLER                                                                 |     |
| 3    | 10719110    | 4   | TOWER ROLLER BUSHING                                                         |     |
| 4    | 10703906    | 2   | COTTER PIN, 3/8X3                                                            |     |
| 5    | 10138064    | 1   | FORK SHAFT                                                                   |     |
| 6    | 10138066    | 2   | FORK SHAFT WASHER                                                            |     |
| 7    | 10224752    | 1   | CARRIAGE SAFETY DECAL                                                        |     |
| 8    | 14994040    | 16  | HEX HD CAPSCREW, 1/2X1                                                       |     |
| 9    | 11009080    | 16  | LOCKWASHER, 1/2                                                              |     |
| 10   | 10226146    | 4   | TOWER ROLLER PIN                                                             |     |
| 11   | 10732689    | 4   | GREASE FITTING COVER                                                         |     |
| 12   | 11160110    | 4   | GREASE FITTING                                                               |     |
| 13   |             | Ref | VERTICAL MAST ASSY, (See 8FT VERTICAL MAST ASSEMBLY for Breakdown)           |     |
| 14   |             | Ref | FORKS, (See FORKS for Breakdown)                                             |     |

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FIGURE 3-17. CARRIAGE ASSEMBLY WITH 8FT VERTICAL MAST (TILT) (Prior to SN 0160037900, Excluding 0160037855)



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## SECTION 3 - ATTACHMENTS

**FIGURE 3-17. CARRIAGE ASSEMBLY WITH 8FT VERTICAL MAST (TILT) (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                         | REV |
|------|-------------|-----|-------------------------------------------------------------------------------------|-----|
|      | 48057       | 1   | CARRIAGE ASSY WITH 8FT VERTICAL MAST, (tilt), (includes items 1 thru 38)            | 4   |
| 1    | N.S.S.      | 1   | TOWER CARRIAGE                                                                      |     |
| 2    |             | Ref | TILT CARRIAGE CYLINDER, (includes items 3 & 4), (See OPTIONS SECTION for Breakdown) |     |
| 3    | 10116228    | 1   | CYLINDER BUSHING, ROD END                                                           |     |
| 4    | 10116227    | 1   | CYLINDER BUSHING, BASE END                                                          |     |
| 5    | 10732689    | 8   | GREASE FITTING COVER                                                                |     |
| 6    | 11160110    | 8   | GREASE FITTING                                                                      |     |
| 7    | 10116323    | 1   | SPECIAL WASHER                                                                      |     |
| 8    | 2220501     | 2   | ELBOW, 45, (includes o-ring)                                                        |     |
| 9    | 8770189     | 2   | BULKHEAD ELBOW, 45                                                                  |     |
| 10   | 10836590    | 2   | HYDRAULIC HOSE ASSY                                                                 |     |
| 11   | 14994040    | 16  | HEX HD CAPSCREW, 1/2X1                                                              |     |
| 12   | 11009080    | 16  | LOCKWASHER, 1/2                                                                     |     |
| 13   | 10135707    | 1   | LOCK PIN                                                                            |     |
| 14   | 10138014    | 1   | TILT CYLINDER PIN                                                                   |     |
| 15   | 10226150    | 4   | TOWER ROLLER                                                                        |     |
| 16   | 10719110    | 4   | TOWER ROLLER BUSHING                                                                |     |
| 17   | 10837535    | 2   | HYDRAULIC HOSE ASSY                                                                 |     |
| 18   | 11016150    | 6   | FLAT WASHER, 5/8                                                                    |     |
| 19   | 10216114    | 1   | SHEAVE SUPPORT                                                                      |     |
| 20   | 11009060    | 2   | LOCKWASHER, 3/8                                                                     |     |
| 21   | 11261060    | 2   | HEX NUT, 3/8-16                                                                     |     |
| 22   | 10116117    | 1   | SHEAVE SHAFT                                                                        |     |
| 23   | 11133050    | 1   | COTTER PIN, 1/8X1-1/4                                                               |     |
| 24   | 11143040    | 2   | HEX HD CAPSCREW, 3/8-16X1                                                           |     |
| 25   | 10138065    | 1   | CARRIAGE PIVOT BOLT                                                                 |     |
| 26   | 10703906    | 4   | COTTER PIN, 3/8X3                                                                   |     |
| 27   | 10226146    | 4   | TOWER ROLLER PIN                                                                    |     |
| 28   | 10438873    | 1   | INNER CARRIAGE                                                                      |     |
| 29   | 10138013    | 1   | PIVOT SLEEVE                                                                        |     |
| 30   | 2230043     | 2   | BULKHEAD ELBOW, 90                                                                  |     |
| 31   | 10837864    | 2   | HYDRAULIC HOSE ASSY                                                                 |     |
| 32   | 10866136    | 2   | MALE QUICK COUPLER, (includes o-ring)                                               |     |
| 32   | 10730518    | 2   | DUST CAP                                                                            |     |
| 33   | 10216115    | 1   | TOWER SHEAVE                                                                        |     |
| 34   | 10138064    | 1   | FORK SHAFT                                                                          |     |
| 35   | 10224752    | 1   | CARRIAGE SAFETY DECAL                                                               |     |
| 36   | 11160140    | 1   | GREASE FITTING, 90                                                                  |     |
| 37   | 10138066    | 4   | PIVOT WASHER                                                                        |     |
| 38   | 10837794    | 1   | HEX CASTLE NUT, 2-12                                                                |     |
| 39   | 2220657     | 1   | SWIVEL ELBOW, 45                                                                    |     |
| 40   | 10135420    | 1   | SPECIAL ADAPTER                                                                     |     |
| 41   | 10138114    | 1   | ORIFICE                                                                             |     |
| 42   | 10718943    | 1   | PIPE ELBOW, 45                                                                      |     |
| 43   | 10266336    | 1   | CYLINDER REPLACEMENT KIT, (includes items 2, 3, 4 & 9)                              |     |
| 44   |             | Ref | VERTICAL MAST ASSY, (See 8FT VERTICAL MAST ASSEMBLY for Breakdown)                  |     |

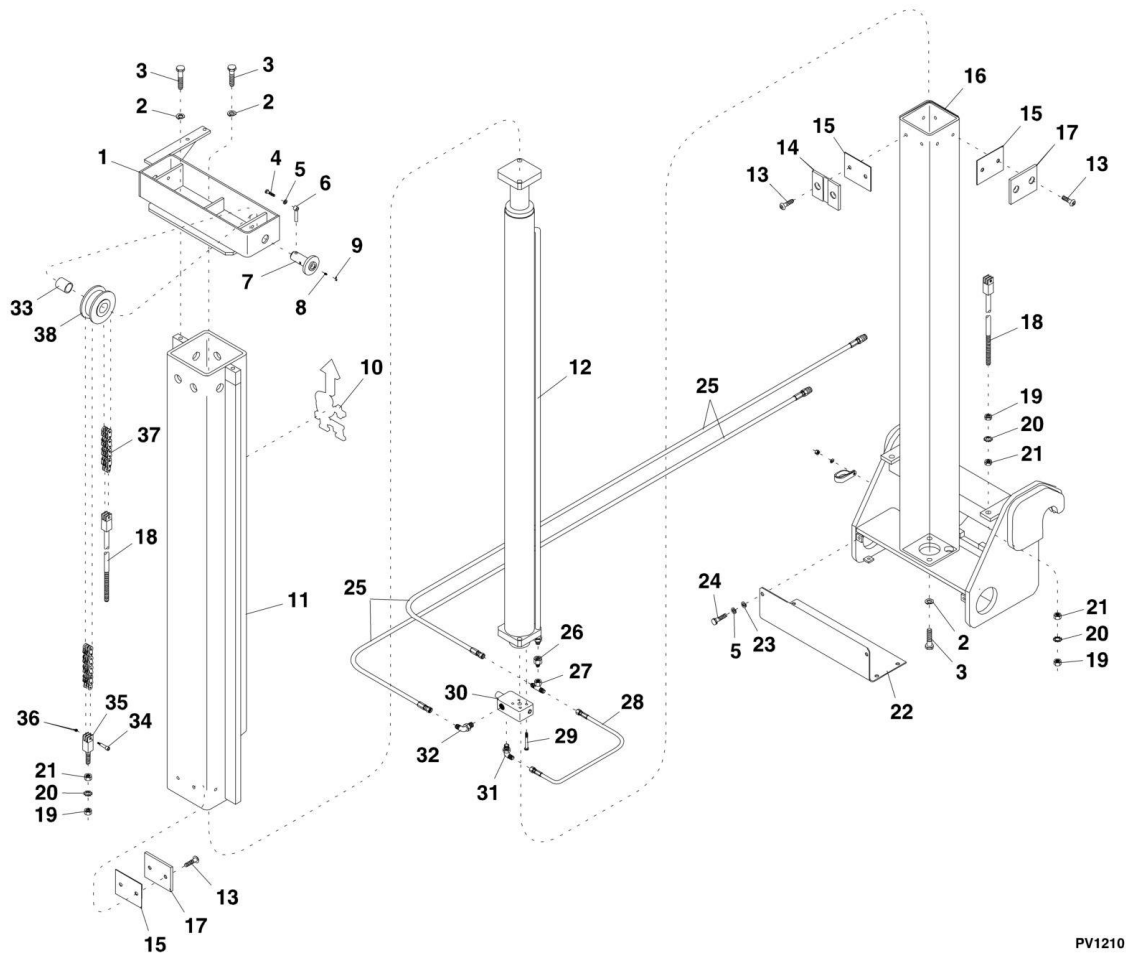
SECTION 3 - ATTACHMENTS

| ITEM | PART NUMBER | QTY | DESCRIPTION                     | REV |
|------|-------------|-----|---------------------------------|-----|
| 45   |             | Ref | FORK, (See FORKS for Breakdown) |     |



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FIGURE 3-18. 8FT VERTICAL MAST ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)



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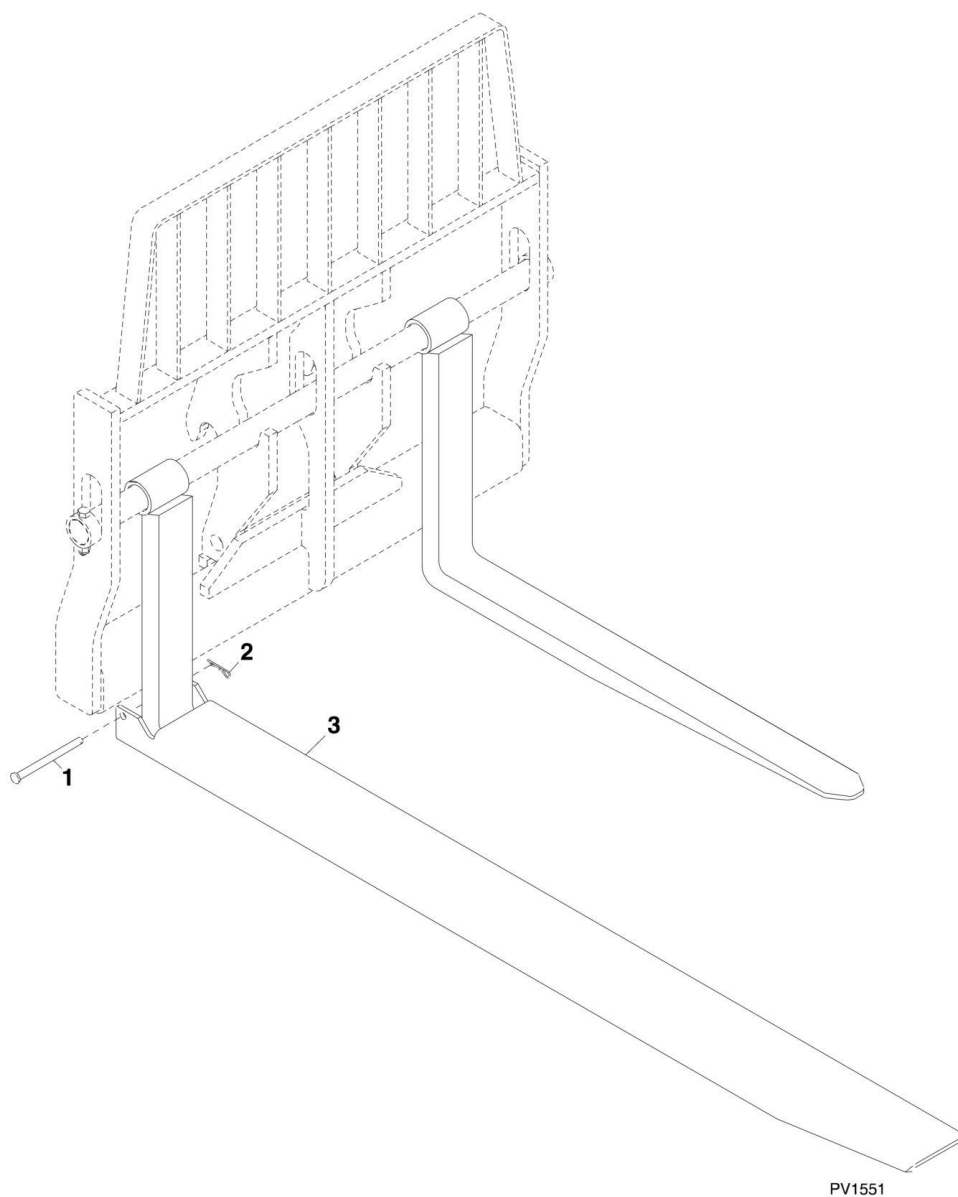
## SECTION 3 - ATTACHMENTS

**FIGURE 3-18. 8FT VERTICAL MAST ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                         | REV |
|------|-------------|-----|-----------------------------------------------------|-----|
|      | 48060       | 1   | VERTICAL MAST ASSY, (includes all items)            | 3   |
| 1    | 10326137    | 1   | PULLEY HOUSING                                      |     |
| 2    | 11009100    | 6   | LOCKWASHER, 5/8                                     |     |
| 3    | 11894070    | 6   | HEX HD CAPSCREW, 5/8-11X1-3/4                       |     |
| 4    | 10700203    | 2   | HEX HD CAPSCREW, 3/8-16X7/8                         |     |
| 5    | 11009060    | 8   | LOCKWASHER, 3/8                                     |     |
| 6    | 10126161    | 2   | LOCK PIN                                            |     |
| 7    | 10126143    | 2   | CHAIN PULLEY WELDMENT PIN                           |     |
| 8    | 11160110    | 2   | GREASE FITTING                                      |     |
| 9    | 10732689    | 2   | GREASE FITTING COVER                                |     |
| 10   | 10239382    | 1   | 8FT TOWER DECAL                                     |     |
| 11   | 10438860    | 1   | OUTER TUBE WELDMENT                                 |     |
| 12   |             | Ref | TOWER CYLINDER, (See OPTIONS SECTION for Breakdown) |     |
| 13   | 10703115    | 16  | FLAT SOCKET HD CAPSCREW, 1/2-13X1                   |     |
| 14   | 10728504    | 1   | GROOVED TOWER SLIDE PAD                             |     |
| 15   | 101261521   | AR  | TOWER SHIM, 11 GA                                   |     |
| 15   | 101261522   | AR  | TOWER SHIM, 14 GA                                   |     |
| 15   | 101261523   | AR  | TOWER SHIM, 20 GA                                   |     |
| 16   | 10438852    | 1   | UPRIGHT ASSEMBLY FRAME                              |     |
| 17   | 10728503    | 7   | TOWER SLIDE PAD                                     |     |
| 18   | 10226141    | 2   | CHAIN ANCHOR                                        |     |
| 19   | 11486100    | 6   | HEX JAM NUT, 5/8-18                                 |     |
| 20   | 10701363    | 6   | STAR WASHER, 5/8                                    |     |
| 21   | 11129100    | 6   | HEX NUT, 5/8-18                                     |     |
| 22   | 10239047    | 1   | COVER PLATE                                         |     |
| 23   | 11016130    | 6   | FLAT WASHER, 3/8                                    |     |
| 24   | 11143030    | 6   | HEX HD CAPSCREW, 3/8-16X1                           |     |
| 25   | 10837866    | 2   | HYDRAULIC HOSE ASSY                                 |     |
| 26   | 2220619     | 1   | SWIVEL REDUCER                                      |     |
| 27   | 2220579     | 1   | BRANCH SWIVEL TEE                                   |     |
| 28   | 10721617    | 1   | HYDRAULIC HOSE ASSY                                 |     |
| 29   | 11047270    | 4   | HEX HD CAPSCREW, 5/16-18X2                          |     |
| 30   | 10726324    | 1   | COUNTERBALANCE VALVE                                |     |
| 31   | 2220628     | 1   | ELBOW, 90                                           |     |
| 32   | 2220775     | 1   | ELBOW, 90                                           |     |
| 33   | 10720365    | 2   | BUSHING                                             |     |
| 34   | 10727971    | 4   | SHOULDER BOLT, 5/16-20X1                            |     |
| 35   | 10215055    | 2   | ANCHOR CHAIN                                        |     |
| 36   | 11170040    | 4   | HEX LOCKNUT, 1/4-20                                 |     |
| 37   | 10138898    | 2   | 8FT TOWER LIFT CHAIN                                |     |
| 38   | 10214979    | 2   | PULLEY                                              |     |

## SECTION 3 - ATTACHMENTS

FIGURE 3-19. FORKS



**NOTE:**  
FORKS RATED LESS THAN THE ATTACHMENT OR MACHINE'S CAPACITY DECREASES CAPACITY OF THE ATTACHMENT OR MACHINE TO THAT OF THE FORKS.  
FORKS RATED MORE THAN THE ATTACHMENT OR MACHINE'S CAPACITY DO NOT INCREASE ATTACHMENT OR MACHINE'S CAPACITY.  
PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.



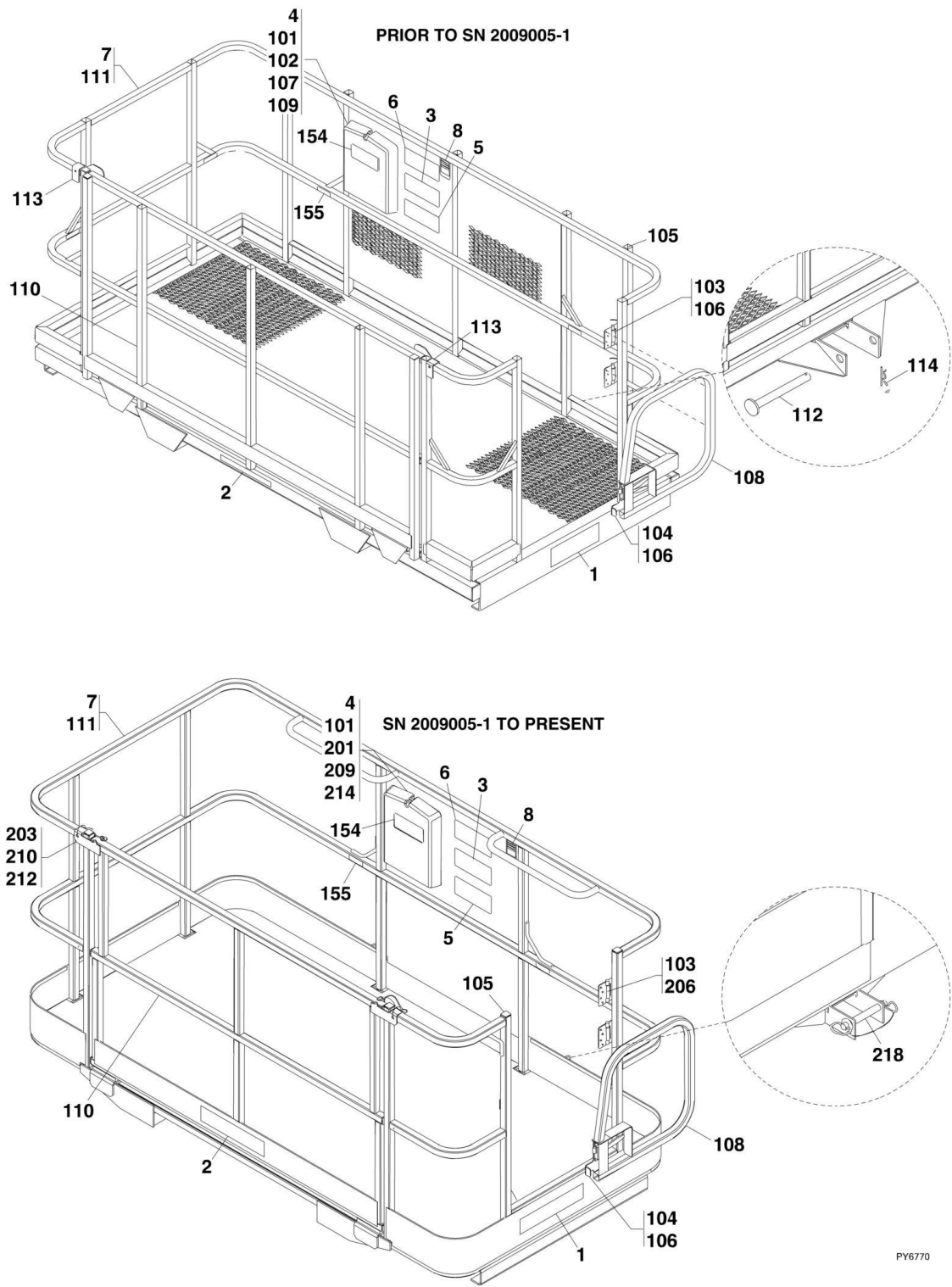
## SECTION 3 - ATTACHMENTS

**FIGURE 3-19. FORKS**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                                                                     | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|      | 10238118    | 2   | 48IN CUBING FORK, 2X2, 4,000LB (SN 0160009654 through 0160035580, Including 0160008714)                                                                                         | E   |
|      | 1001099845  | 2   | 48IN CUBING FORK, 2X2, 4,000LB (SN 0160035581 through 0160037899, Excluding 0160037855)                                                                                         | B   |
|      | 2340037     | 2   | 48IN CUBING FORK, 2X2, 3,880LB (SN 0160037900 to Present, Including 0160037855)                                                                                                 | A   |
|      | 10239894    | NLA | 48IN PALLET FORK, 4X2.25, 10,000LB , (no longer available, use a set of 1001099847 for replacement) (SN 0160009654 through 0160035580, Including 0160008714)                    | B   |
|      | 1001099847  | 2   | 48IN PALLET FORK, 4X2.25, 10,000LB (SN 0160035581 through 0160037899, Excluding 0160037855)                                                                                     | A   |
|      | 2340045     | 2   | 48IN PALLET FORK, 4X2.36, 10,950LB (SN 0160037900 to Present, Including 0160037855)                                                                                             | A   |
|      | 10238569    | NLA | 48IN PALLET FORK, 5X2, 10,000LB , (no longer available, use a set of 1001099846 for replacement) (SN 0160009654 through 0160035580, Including 0160008714)                       | C   |
|      | 1001099846  | 2   | 48IN PALLET FORK, 5X2, 10,000LB (SN 0160035581 through 0160037899, Excluding 0160037855)                                                                                        | A   |
|      | 2340038     | 2   | 48IN PALLET FORK, 5X2.36, 13,700LB (SN 0160037900 to Present, Including 0160037855)                                                                                             | A   |
|      | 10238570    | NLA | 60IN PALLET FORK, 5X2, 10,000LB , (no longer available, use a set of 1001099848 for replacement) (SN 0160009654 through 0160035580, Including 0160008714)                       | B   |
|      | 1001099848  | 2   | 60IN PALLET FORK, 5X2, 10,000LB (SN 0160035581 through 0160037899, Excluding 0160037855)                                                                                        | A   |
|      | 10239095    | NLA | 60IN PALLET FORK, 7X1-3/4, 10,000LB , (no longer available, use a set of 1001099849 for replacement) (SN 0160009654 through 0160035580, Including 0160008714)                   | B   |
|      | 1001099849  | 2   | 60IN PALLET FORK, 7X1-3/4, 10,000LB (SN 0160035581 through 0160037899, Excluding 0160037855)                                                                                    | A   |
|      | 10239969    | 2   | 60IN LUMBER FORK, 1-3/4X7 , (use with swing carriage only) (Prior to SN 0160037900, Excluding 0160037855)                                                                       | AA  |
|      | 10238025    | NLA | 48IN PALLET FORK, 2X4, 8,000LB , (use with tower only), (no longer available, use a set of 1001099850 for replacement) (SN 0160009654 through 0160035580, Including 0160008714) | C   |
|      | 1001099850  | 2   | 48IN PALLET FORK, 2X4, 8,000LB , (use with tower only) (SN 0160035581 through 0160037899, Excluding 0160037855)                                                                 | A   |
|      | 10239970    | 2   | 60IN PALLET FORK, 2X5 , (use with swing carriage only) (Prior to SN 0160037900, Excluding 0160037855)                                                                           | AA  |
|      | 2340046     | 2   | 60IN DUAL TAPER FORK, 1-3/4X7, 10,800LB (SN 0160037900 to Present, Including 0160037855)                                                                                        | A   |
|      | 2340039     | 2   | 60IN DUAL TAPER FORK, 2-23/64X6, 16,300LB (SN 0160037900 to Present, Including 0160037855)                                                                                      | A   |
|      | 1001092391  | 2   | 72IN DUAL TAPER FORK, 2X6, 11,300LB (SN 0160037900 to Present, Including 0160037855)                                                                                            | A   |
|      | 1001137512  | 2   | 90IN FORK EXTENSION, (includes items 1 thru 3)                                                                                                                                  | D   |
| 1    | 70024306    | 1   | PIN                                                                                                                                                                             |     |
| 2    | 70024307    | 1   | CLIP                                                                                                                                                                            |     |
| 3    | N.S.S.      | 1   | WELDMENT                                                                                                                                                                        |     |

SECTION 3 - ATTACHMENTS

FIGURE 3-20. FORK MOUNTED PLATFORM



PY6770

## SECTION 3 - ATTACHMENTS

**FIGURE 3-20. FORK MOUNTED PLATFORM**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                                            | REV |
|------|-------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|      | 1001092280  | NLA | FORK MOUNTED PLATFORM, (Prior to SN 2009005-1), (ASME), (no longer available, order 1001103637 for replacement or items 1 thru 8 for service)          | E   |
|      | 1001103637  | 1   | FORK MOUNTED PLATFORM, (SN 2009005-1 to Present), (ASME), (includes items 1 thru 8)                                                                    | D   |
|      | 1001096306  | NLA | FORK MOUNTED PLATFORM, (Prior to SN 2009005-1), (ISO), (no longer available, order 1001103730 for replacement or items 1 thru 8 for service)           | C   |
|      | 1001103730  | 1   | FORK MOUNTED PLATFORM, (SN 2009005-1 to Present), (ISO), (includes items 1 thru 8)                                                                     | D   |
|      | 1001097072  | NLA | FORK MOUNTED PLATFORM, (Prior to SN 2009005-1), (ASME - FRENCH), (no longer available, order 1001103736 for replacement or items 1 thru 8 for service) | C   |
|      | 1001103736  | 1   | FORK MOUNTED PLATFORM, (SN 2009005-1 to Present), (ASME - FRENCH), (includes 1 thru 8)                                                                 | D   |
| 1    | 1702773     | 2   | JLG DECAL                                                                                                                                              |     |
| 2    | 1704885     | 1   | WEBSITE DECAL                                                                                                                                          |     |
| 3    | 1706892     | 1   | PLATFORM WARNING DECAL, (ASME)                                                                                                                         |     |
| 3    | 1001096025  | 1   | PLATFORM WARNING DECAL, (ISO)                                                                                                                          |     |
| 3    | 1001096024  | 1   | PLATFORM WARNING DECAL, (ASME - FRENCH)                                                                                                                |     |
| 4    | 31200160    | 1   | OPERATION AND SAFETY MANUAL, (ASME)                                                                                                                    |     |
| 4    | 31200387    | 1   | OPERATION AND SAFETY MANUAL, (ISO - SPANISH)                                                                                                           |     |
| 4    | 31200388    | 1   | OPERATION AND SAFETY MANUAL, (ISO - PORTUGUESE)                                                                                                        |     |
| 4    | 31200386    | 1   | OPERATION AND SAFETY MANUAL, (ASME - FRENCH)                                                                                                           |     |
| 5    | 1001092481  | 1   | WARNING DECAL, (ASME)                                                                                                                                  |     |
| 5    | 1001096021  | 1   | WARNING DECAL, (ISO)                                                                                                                                   |     |
| 5    | 1001096019  | 1   | WARNING DECAL, (ASME - FRENCH)                                                                                                                         |     |
| 6    | 1001092482  | 1   | CAPACITY DECAL, (ASME)                                                                                                                                 |     |
| 6    | 1001096023  | 1   | CAPACITY DECAL, (ISO)                                                                                                                                  |     |
| 6    | 1001096020  | 1   | CAPACITY DECAL, (ASME - FRENCH)                                                                                                                        |     |
| 7    | N.S.S.      | 1   | FORK MOUNTED PLATFORM, (Prior to SN 2009005-1), (includes items 101 thru 114)                                                                          | B   |
| 7    | N.S.S.      | 1   | FORK MOUNTED PLATFORM, (SN 2009005-1 to Present), (includes items 101, 103 thru 106, 108, 110, 111, 154, 155 & 201 thru 218)                           | J   |
| 8    | N.S.S.      | 1   | SN PLATE                                                                                                                                               |     |
| 101  | 0860520     | 1   | MANUAL STORAGE BOX                                                                                                                                     |     |
| 102  | 2080044     | 4   | RIVNUT FASTENER, 1/4-20                                                                                                                                |     |
| 103  | 2600281     | 2   | HINGE                                                                                                                                                  |     |
| 104  | 2940074     | 1   | LATCH                                                                                                                                                  |     |
| 105  | 3520198     | 21  | PLUG, (Prior to SN 2009005-1)                                                                                                                          |     |
| 105  | 3520072     | 10  | PLUG, (SN 2009005-1 to Present)                                                                                                                        |     |
| 106  | 3820020     | 20  | POP RIVET, (Prior to SN 2009005-1)                                                                                                                     |     |
| 106  | 3820020     | 4   | POP RIVET, (SN 2009005-1 to Present)                                                                                                                   |     |
| 107  | 4751400     | 4   | WASHER, 1/4                                                                                                                                            |     |
| 108  | 4846452     | 1   | GATE WELDMENT                                                                                                                                          |     |
| 109  | 80263012    | 4   | SCREW WHIZ-LOCK, 1/4-20X1/2                                                                                                                            |     |
| 110  | 1001093140  | 1   | GATE WELDMENT, (Prior to SN 2009005-1)                                                                                                                 |     |
| 110  | 1001095810  | 1   | GATE WELDMENT, (SN 2009005-1 to Present)                                                                                                               |     |
| 111  | N.S.S.      | 1   | PLATFORM WELDMENT                                                                                                                                      |     |
| 112  | 1001093171  | 2   | PIN                                                                                                                                                    |     |
| 113  | 1001097168  | 2   | SAFETY SNAP PIN WITH LANYARD                                                                                                                           |     |

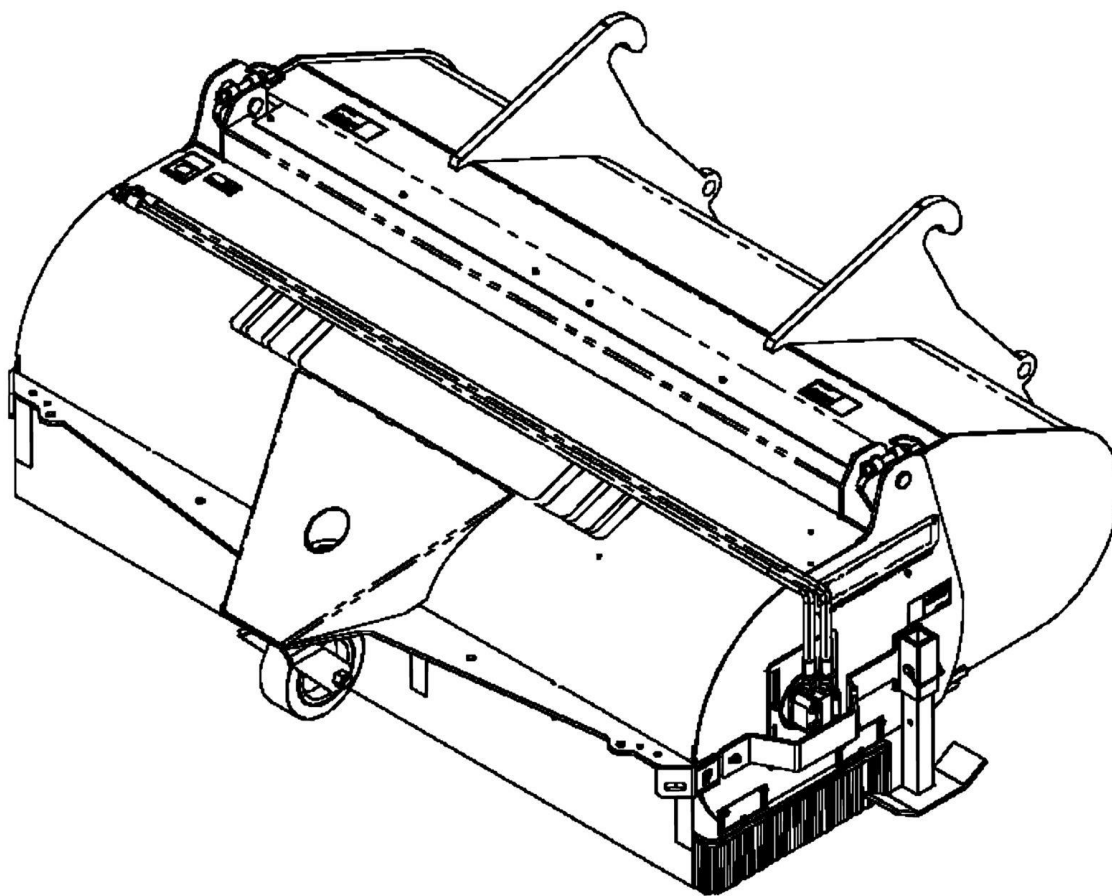
## SECTION 3 - ATTACHMENTS

| ITEM | PART NUMBER | QTY | DESCRIPTION                                     | REV |
|------|-------------|-----|-------------------------------------------------|-----|
| 114  | 1001098582  | 2   | LYNCH PIN 3/16 WITH LANYARD                     |     |
| 154  | 1701509     | 1   | MANUAL DECAL                                    |     |
| 155  | 1704277     | 8   | LANYARD ATTACH DECAL, (Prior to SN 2009005-1)   |     |
| 155  | 1704277     | 3   | LANYARD ATTACH DECAL, (SN 2009005-1 to Present) |     |
| 201  | 0641405     | 4   | HEX HD CAPSCREW, 1/4-20X5/8                     |     |
| 203  | 1060379     | 2   | 6IN LANYARD CABLE                               |     |
| 206  | 2080040     | 16  | FASTENER                                        |     |
| 209  | 3311405     | 4   | HEX NUT, 1/4-20                                 |     |
| 210  | 3421453     | 2   | PIN                                             |     |
| 212  | 3760170     | 4   | RING                                            |     |
| 214  | 4711400     | 8   | WASHER, 1/4                                     |     |
| 218  | 1001102813  | 2   | HITCH PIN                                       |     |



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FIGURE 3-21. SWEEPER ASSEMBLY (SN 0160037900 to Present, Including 0160037855)



PV1740

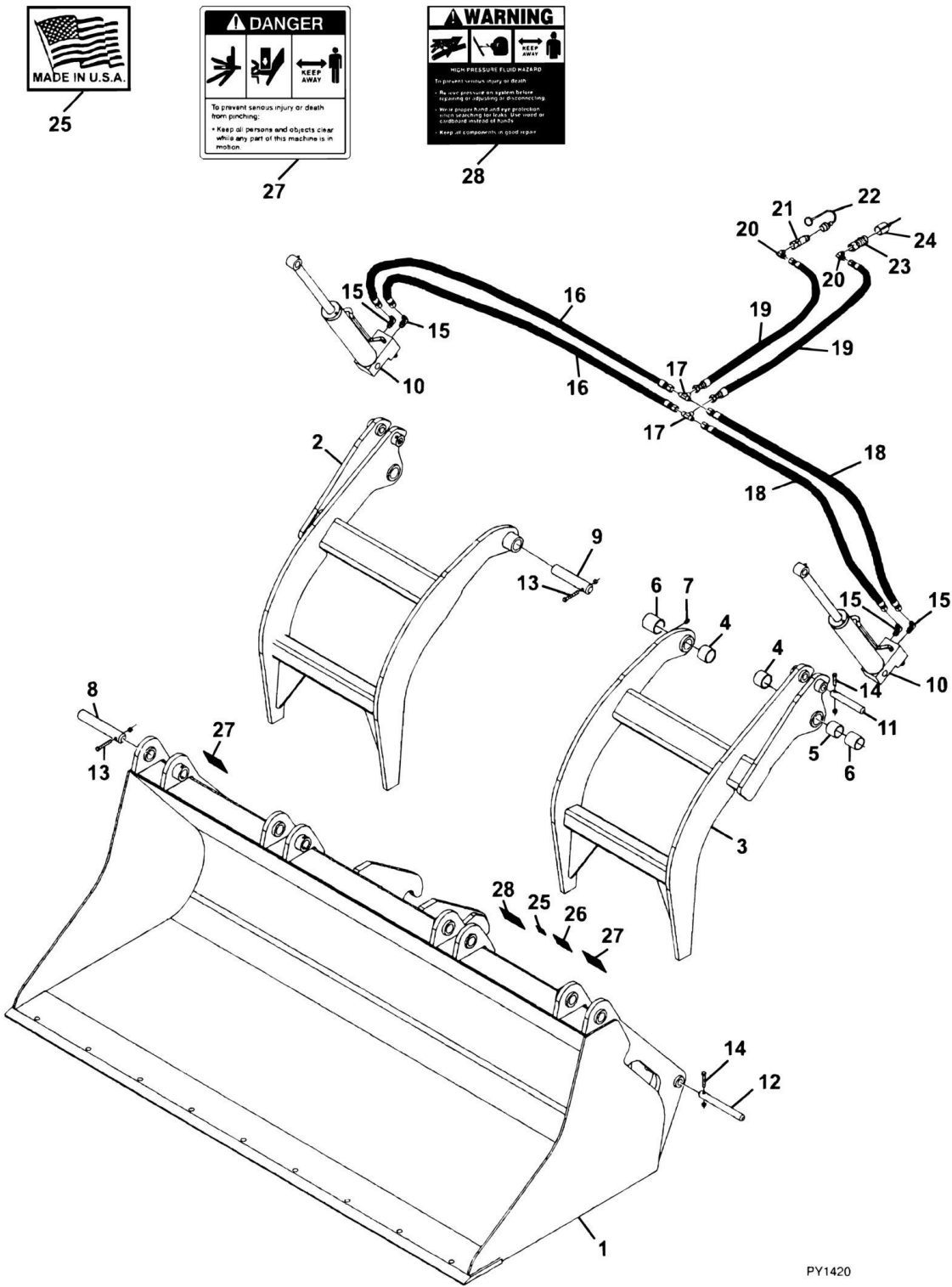
## SECTION 3 - ATTACHMENTS

**FIGURE 3-21. SWEEPER ASSEMBLY (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION         | REV |
|------|-------------|-----|---------------------|-----|
|      | 0274719     | 1   | SWEEPER ASSY        | C   |
|      | 10266970    | 1   | SWEEPER WITH BUCKET |     |

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FIGURE 3-22. GRAPPLE BUCKET (SN 0160037900 to Present, Including 0160037855)



PY1420



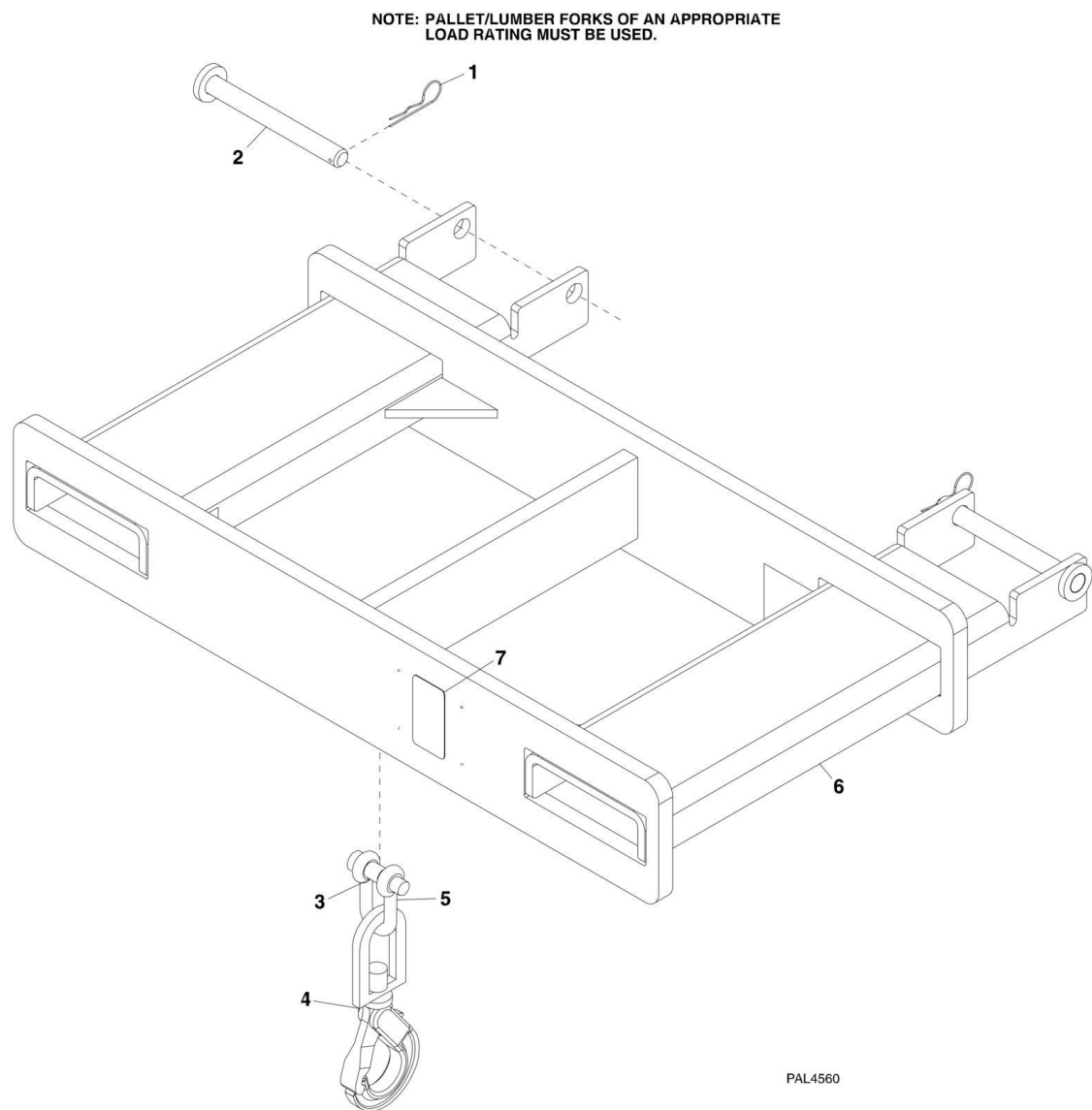
## SECTION 3 - ATTACHMENTS

**FIGURE 3-22. GRAPPLE BUCKET (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                               | REV |
|------|-------------|-----|---------------------------------------------------------------------------|-----|
|      | 0930020     | 1   | GRAPPLE BUCKET, (includes all items)                                      | G   |
| 1    | N.S.S.      | 1   | BUCKET                                                                    |     |
| 1    | 70021387    | 4   | HOSE CLAMP                                                                |     |
| 2    | 70021391    | 1   | RIGHT GRAPPLE HOOK                                                        |     |
| 3    | 70021392    | 1   | LEFT GRAPPLE HOOK                                                         |     |
| 4    | 70021358    | 4   | BUSHING                                                                   |     |
| 5    | 70021359    | 2   | SPACER                                                                    |     |
| 6    | 70021360    | 4   | BUSHING                                                                   |     |
| 7    | 7029714     | 4   | GREASE FITTING                                                            |     |
| 8    | 70021361    | 2   | OUTER PIVOT PIN                                                           |     |
| 9    | 70021362    | 2   | INNER PIVOT PIN                                                           |     |
| 10   |             | Ref | GRAPPLE BUCKET CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| 11   | 70021364    | 2   | PIN                                                                       |     |
| 12   | 70021365    | 2   | PIN                                                                       |     |
| 13   | 70021366    | 4   | HEX HD CAPSCREW, 3/8X2.75                                                 |     |
| 13   | 70021367    | 4   | LOCK NUT, 3/8                                                             |     |
| 14   | 70021399    | 4   | HEX HD CAPSCREW, 3/8X2.25                                                 |     |
| 14   | 70021367    | 4   | LOCK NUT, 3/8                                                             |     |
| 15   | 90554065    | 4   | ELBOW, 90                                                                 |     |
| 16   | 70021980    | 2   | HOSE ASSY, 3/8X73IN                                                       |     |
| 17   | 70020562    | 2   | TEE FITTING                                                               |     |
| 18   | 70021981    | 2   | HOSE ASSY, 3/8X46IN                                                       |     |
| 19   | 70021982    | 2   | HOSE ASSY, 3/8X34IN                                                       |     |
| 20   | 70022527    | 2   | ELBOW, 90                                                                 |     |
| 21   | 7029692     | 1   | MALE QUICK COUPLER                                                        |     |
| 22   | 90554062    | 1   | DUST COVER                                                                |     |
| 23   | 70021342    | 1   | FEMALE QUICK COUPLER                                                      |     |
| 24   | 90554076    | 1   | DUST COVER                                                                |     |
| 25   | 90554016    | 1   | USA DECAL                                                                 |     |
| 26   | N.S.S.      | 1   | SN PLATE                                                                  |     |
| 27   | 90554017    | 2   | DANGER PINCH POINT DECAL                                                  |     |
| 28   | 90554018    | 1   | HIGH PRESSURE WARNING DECAL                                               |     |

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FIGURE 3-23. FORK MOUNTED LIFTING HOOK (SN 0160037900 to Present, Including 0160037855)



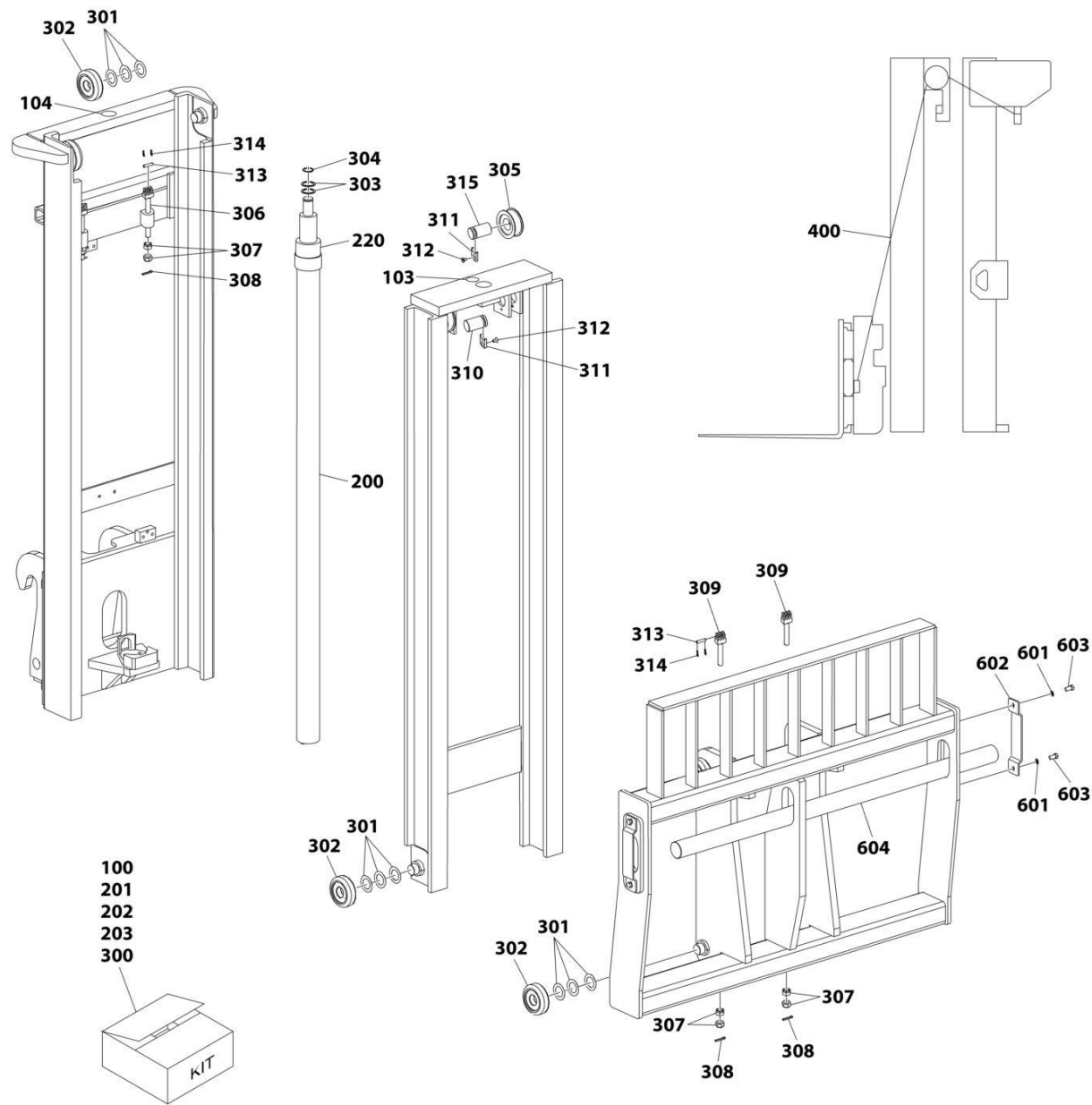
## SECTION 3 - ATTACHMENTS

**FIGURE 3-23. FORK MOUNTED LIFTING HOOK (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                     | REV |
|------|-------------|-----|-------------------------------------------------|-----|
|      | 91565094    | 1   | FORK MOUNTED LIFTING HOOK, (includes all items) | F   |
| 1    | 7029520     | 2   | HAIRPIN CLIP                                    |     |
| 2    | 1001093171  | 2   | PIN                                             |     |
| 3    | 70020555    | 1   | SPRING BUSHING                                  |     |
| 4    | 90554080    | 1   | SLING HOOK                                      |     |
| 5    | 7029521     | 1   | CHAIN SHACKLE, 12,000LB                         |     |
| 6    | N.S.S.      | 1   | LIFTING HOOK                                    |     |
| 7    | N.S.S.      | 1   | SN PLATE                                        |     |

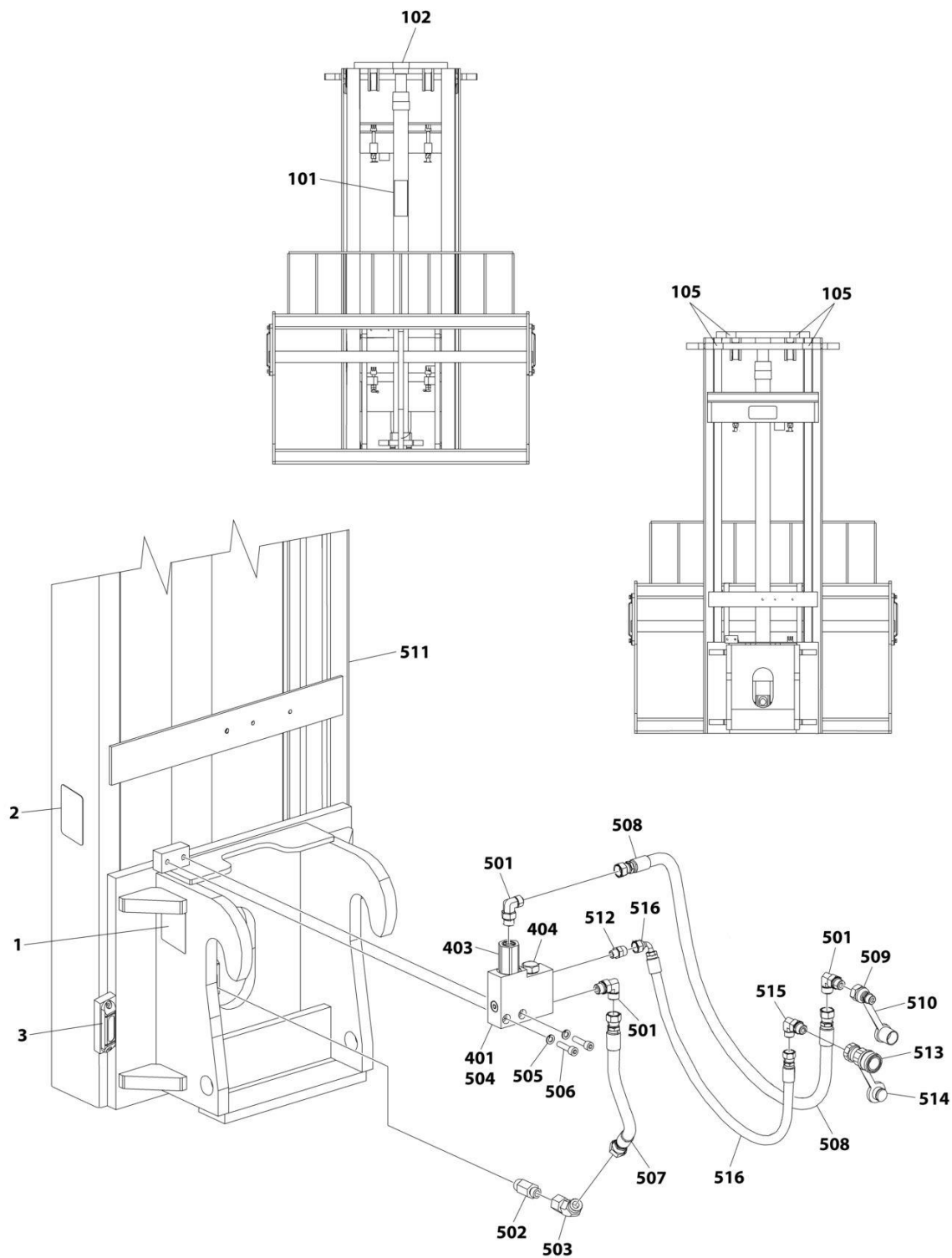
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FIGURE 3-24. MAST ASSEMBLY - 8FT (4500LBS) (WITHOUT SIDE TILT) (SN 0160037900 to Present, Including 0160037855)



ART\_1001108668\_1OF2

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ART\_1001108668\_2OF2

## SECTION 3 - ATTACHMENTS

**FIGURE 3-24. MAST ASSEMBLY - 8FT (4500LBS) (WITHOUT SIDE TILT) (SN 0160037900 to Present, Including 0160037855)**

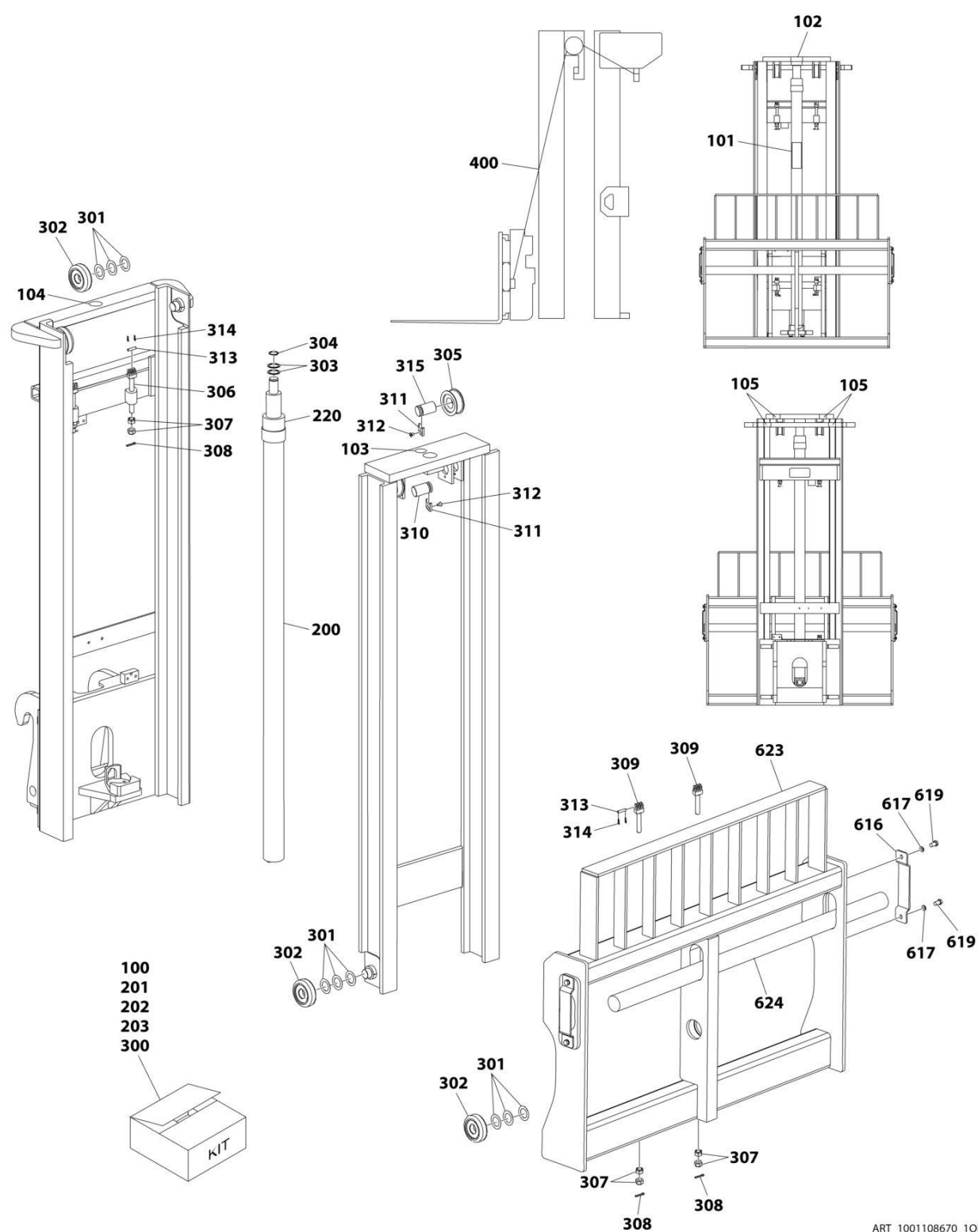
| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                               | REV |
|------|-------------|-----|-------------------------------------------------------------------------------------------|-----|
|      | 1001108668  | Ref | MAST ASSEMBLY - 8FT                                                                       | G   |
| 1    | See Note    | NSS | Nameplate, Serial Number (Note: Not Available for Purchase)                               |     |
| 2    | 1001111190  | 2   | Decal - Warning                                                                           |     |
| 3    | 1001227670  | 1   | RFID Tag                                                                                  |     |
| 100  | 70023925    | 1   | Decal Kit (includes items 1, Warning, No Step & Hose Routing Decals)                      |     |
| 101  | See Note    | NSS | Decal, Warning (Use Item 100)                                                             |     |
| 102  | See Note    | NSS | Decal, Warning (Use Item 100)                                                             |     |
| 103  | See Note    | NSS | Decal, No Step (Use Item 100)                                                             |     |
| 104  | See Note    | NSS | Decal, No Step (Use Item 100)                                                             |     |
| 105  | See Note    | NSS | Decal, Hands Off (Use Item 100)                                                           |     |
| 200  | 70023008    | 1   | Cylinder Assembly - Lift (includes items 201-203 & 220. No Other Service Parts Available) |     |
| 201  | 70023005    | 1   | Seal Kit - 70023008 Cylinder (includes Seals & Seal Retaining Hardware)                   |     |
| 202  | 70023006    | 1   | Check Valve Kit (includes Mounting O-Rings & Hardware)                                    |     |
| 203  | 70023007    | 1   | Shim Kit (Includes items 303)                                                             |     |
| 220  | 70023004    | 1   | Head/Retainer                                                                             |     |
| 300  | 70023015    | 1   | Mast Kit (includes items 100 & 301-315)                                                   |     |
| 301  | 70023014    | 24  | Shim                                                                                      |     |
| 302  | 70022987    | 8   | Bearing, Ball                                                                             |     |
| 303  | See Note    | NLA | Shim (Note: Use item 203)                                                                 |     |
| 304  | 70023016    | 1   | Ring, Retaining                                                                           |     |
| 305  | 70022969    | 2   | Sheave                                                                                    |     |
| 306  | 70022960    | 2   | Anchor, Chain                                                                             |     |
| 307  | 70022957    | 8   | Nut 5/8                                                                                   |     |
| 308  | 70022993    | 4   | Pin, Cotter                                                                               |     |
| 309  | 70022995    | 2   | Anchor, Chain                                                                             |     |
| 310  | 70022984    | 1   | Shaft, Sheave                                                                             |     |
| 311  | 70022970    | 2   | Bar                                                                                       |     |
| 312  | 70023003    | 2   | Screw                                                                                     |     |
| 313  | 70022994    | 4   | Pin                                                                                       |     |
| 314  | 70022992    | 8   | Pin, Cotter                                                                               |     |
| 315  | 70022985    | 1   | Shaft, Sheave                                                                             |     |
| 400  | 70023009    | 2   | Chain, Hoist                                                                              |     |
| 401  | 70022932    | 1   | Valve Assembly - Lowering Control                                                         |     |
| 403  | 70022931    | 1   | Cartridge, Valve                                                                          |     |
| 404  | 70023010    | 1   | Cartridge, Valve                                                                          |     |
| 501  | 70022934    | 3   | Fitting, 90                                                                               |     |
| 502  | 70022936    | 1   | Fitting, Flow Limiter                                                                     |     |
| 503  | 70022937    | 1   | Fitting, 45                                                                               |     |
| 504  | 70022932    | 1   | Valve Assembly - Lowering Control (Note: Duplicate of Item 401 - Only Qty 1 Used)         |     |
| 505  | 70022949    | 2   | Washer, M10                                                                               |     |
| 506  | 70022950    | 2   | Bolt M10                                                                                  |     |
| 507  | 70022942    | 1   | Hose                                                                                      |     |
| 508  | 70022952    | 1   | Hose                                                                                      |     |
| 509  | 91403414    | 1   | Fitting, Quick Disconnect Coupling (Male)                                                 |     |
| 510  | 91043126    | 1   | Cap, Dust                                                                                 |     |
| 511  | 70023015    | 1   | Mast Kit (Note: Duplicate of Item 300 - Only Qty 1 Used)                                  |     |

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| ITEM | PART NUMBER | QTY | DESCRIPTION                                 | REV |
|------|-------------|-----|---------------------------------------------|-----|
| 512  | 70022939    | 1   | Fitting, Straight                           |     |
| 513  | 91403413    | 1   | Fitting, Quick Disconnect Coupling (Female) |     |
| 514  | 91043125    | 1   | Cap, Dust                                   |     |
| 515  | 70022935    | 1   | Fitting, 90                                 |     |
| 516  | 70022946    | 1   | Hose                                        |     |
| 601  | 70022949    | 4   | Washer M10                                  |     |
| 602  | 70022980    | 2   | Keeper, Pin                                 |     |
| 603  | 70022998    | 4   | Bolt M10 x 20                               |     |
| 604  | 70022990    | 1   | Pin, Fork                                   |     |

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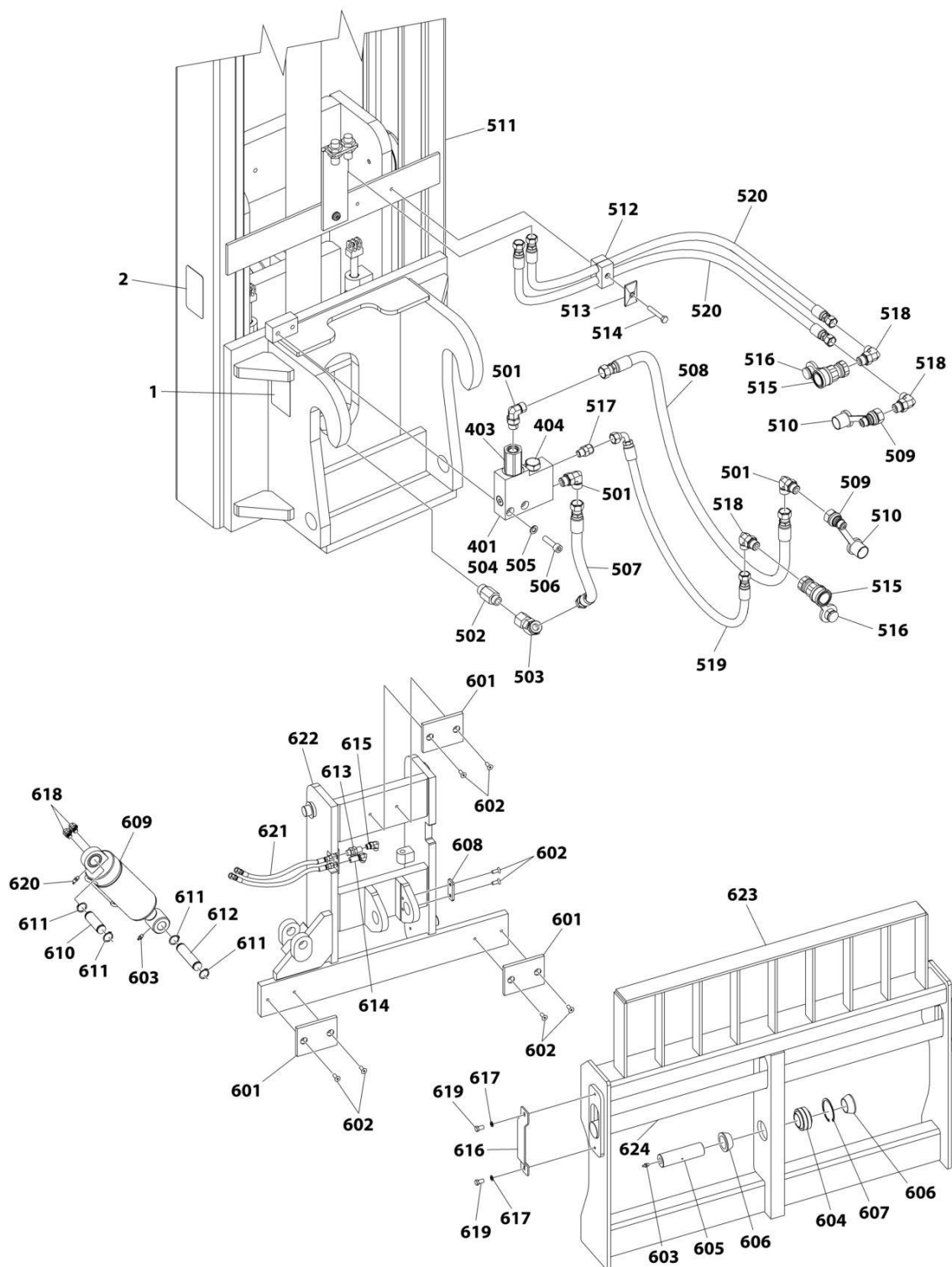
FIGURE 3-25. MAST ASSEMBLY - 8FT (4500LBS) (WITH SIDE TILT) (SN 0160037900 to Present, Including 0160037855)



ART\_1001108670\_1OF2



## SECTION 3 - ATTACHMENTS



ART\_1001108670\_2OF2

## SECTION 3 - ATTACHMENTS

**FIGURE 3-25. MAST ASSEMBLY - 8FT (4500LBS) (WITH SIDE TILT) (SN 0160037900 to Present, Including 0160037855)**

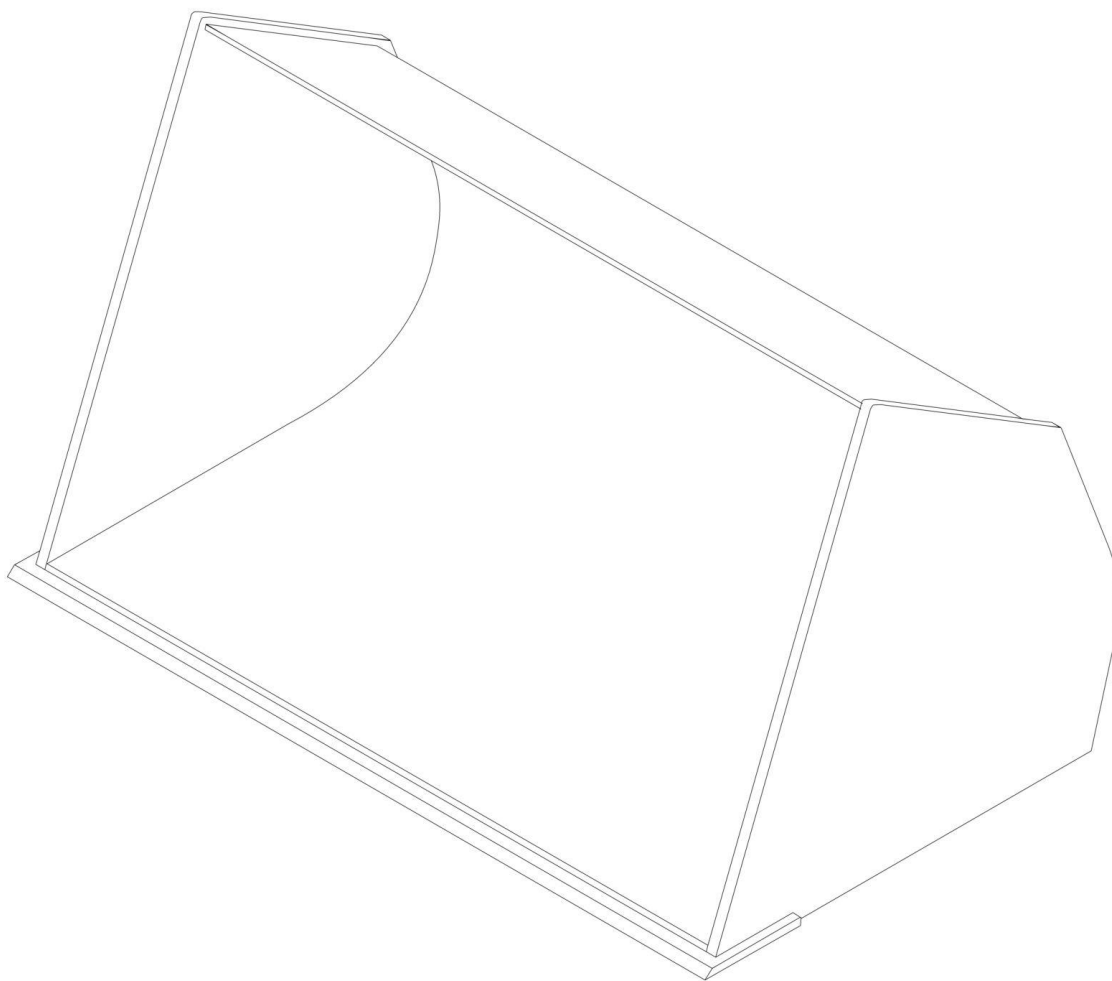
| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                               | REV |
|------|-------------|-----|-------------------------------------------------------------------------------------------|-----|
|      | 1001108670  | Ref | MAST ASSEMBLY - 8FT WITH SIDE TILT                                                        | E   |
| 1    | 1001111190  | 2   | Decal - Warning                                                                           |     |
| 2    | See Note    | NSS | Nameplate, Serial Number (Note: Not Available for Purchase)                               |     |
| 100  | 70023925    | 1   | Decal Kit (includes items 1, Warning, No Step & Hose Routing Decals)                      |     |
| 101  | See Note    | NSS | Decal, Warning (Use Item 100)                                                             |     |
| 102  | See Note    | NSS | Decal, Warning (Use Item 100)                                                             |     |
| 103  | See Note    | NSS | Decal, No Step (Use Item 100)                                                             |     |
| 104  | See Note    | NSS | Decal, No Step (Use Item 100)                                                             |     |
| 105  | See Note    | NSS | Decal, Hands Off (Use Item 100)                                                           |     |
| 200  | 70023008    | 1   | Cylinder Assembly - Lift (includes items 201-203 & 220. No Other Service Parts Available) |     |
| 201  | 70023005    | 1   | Seal Kit - 70023008 Cylinder (includes Seals & Seal Retaining Hardware)                   |     |
| 202  | 70023006    | 1   | Check Valve Kit (includes Mounting O-Rings & Hardware)                                    |     |
| 203  | 70023007    | 1   | Shim Kit (Includes items 303)                                                             |     |
| 220  | 70023004    | 1   | Head/Retainer                                                                             |     |
| 300  | 70023015    | 1   | Mast Kit (includes items 100 & 301-315)                                                   |     |
| 301  | 70023014    | 24  | Shim                                                                                      |     |
| 302  | 70022987    | 8   | Bearing, Ball                                                                             |     |
| 303  | See Note    | NLA | Shim (Note: Use item 203)                                                                 |     |
| 304  | 70023016    | 1   | Ring, Retaining                                                                           |     |
| 305  | 70022969    | 2   | Sheave                                                                                    |     |
| 306  | 70022960    | 2   | Anchor, Chain                                                                             |     |
| 307  | 70022957    | 8   | Nut 5/8                                                                                   |     |
| 308  | 70022993    | 4   | Pin, Cotter                                                                               |     |
| 309  | 70022995    | 2   | Anchor, Chain                                                                             |     |
| 310  | 70022984    | 1   | Shaft, Sheave                                                                             |     |
| 311  | 70022970    | 2   | Bar                                                                                       |     |
| 312  | 70023003    | 2   | Screw                                                                                     |     |
| 313  | 70022994    | 4   | Pin                                                                                       |     |
| 314  | 70022992    | 8   | Pin, Cotter                                                                               |     |
| 315  | 70022985    | 1   | Shaft, Sheave                                                                             |     |
| 400  | 70023009    | 2   | Chain, Hoist                                                                              |     |
| 401  | 70022932    | 1   | Valve Assembly - Lowering Control                                                         |     |
| 403  | 70022931    | 1   | Cartridge, Valve                                                                          |     |
| 404  | 70023010    | 1   | Cartridge, Valve                                                                          |     |
| 501  | 70022934    | 3   | Fitting, 90                                                                               |     |
| 502  | 70022936    | 1   | Fitting, Flow Limiter                                                                     |     |
| 503  | 70022937    | 1   | Fitting, 45                                                                               |     |
| 504  | 70022932    | 1   | Valve Assembly - Lowering Control (Note: Duplicate of Item 401 - Only Qty 1 Used)         |     |
| 505  | 70022949    | 2   | Washer, M10                                                                               |     |
| 506  | 70022950    | 2   | Bolt M10                                                                                  |     |
| 507  | 70022942    | 1   | Hose                                                                                      |     |
| 508  | 70022952    | 1   | Hose                                                                                      |     |
| 509  | 91403414    | 2   | Fitting, Quick Disconnect Coupling (Male)                                                 |     |
| 510  | 91043126    | 2   | Cap, Dust                                                                                 |     |
| 511  | 70023015    | 1   | Mast Kit (Note: Duplicate of Item 300 - Only Qty 1 Used)                                  |     |
| 512  | NPN         | 1   | Clamp                                                                                     |     |

## SECTION 3 - ATTACHMENTS

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                        | REV |
|------|-------------|-----|--------------------------------------------------------------------|-----|
| 513  | NPN         | 1   | Cover, Clamp                                                       |     |
| 514  | NPN         | 1   | Bolt M8 x 50                                                       |     |
| 515  | 91403413    | 2   | Fitting, Quick Disconnect Coupling (Female)                        |     |
| 516  | 91043125    | 2   | Cap, Dust                                                          |     |
| 517  | 70022939    | 1   | Fitting, Straight                                                  |     |
| 518  | 70022935    | 3   | Fitting, 90                                                        |     |
| 519  | 70022946    | 1   | Hose                                                               |     |
| 520  | NPN         | 2   | Hose                                                               |     |
| 601  | NPN         | 3   | Pad, Wear                                                          |     |
| 602  | NPN         | 8   | Screw                                                              |     |
| 603  | NPN         | 2   | Fitting, Grease                                                    |     |
| 604  | NPN         | 1   | Bearing                                                            |     |
| 605  | NPN         | 1   | Shaft                                                              |     |
| 606  | NPN         | 2   | Spacer, Beveled                                                    |     |
| 607  | NPN         | 1   | Ring, Retaining                                                    |     |
| 608  | NPN         | 1   | Plate                                                              |     |
| 609  | NPN         | 1   | Cylinder Assembly - Tilt ( Note: No Other Service Parts Available) |     |
| 610  | NPN         | 1   | Pin                                                                |     |
| 611  | NPN         | 4   | Ring, Retaining                                                    |     |
| 612  | NPN         | 1   | Pin                                                                |     |
| 613  | NPN         | 1   | Fitting, Straight                                                  |     |
| 614  | NPN         | 1   | Fitting, 90                                                        |     |
| 615  | NPN         | 1   | Fitting, 90                                                        |     |
| 616  | 70022980    | 2   | Keeper, Pin                                                        |     |
| 617  | 70022949    | 4   | Washer M10                                                         |     |
| 618  | NPN         | 2   | Fitting, 90                                                        |     |
| 619  | 70022998    | 4   | Bolt M10 x 20                                                      |     |
| 620  | NPN         | 1   | Fitting, Grease                                                    |     |
| 621  | NPN         | 2   | Hose                                                               |     |
| 622  | NPN         | 1   | Spine                                                              |     |
| 623  | NPN         | 1   | Frame, Carriage                                                    |     |
| 624  | 70022990    | 1   | Pin, Fork                                                          |     |

## SECTION 3 - ATTACHMENTS

FIGURE 3-26. BUCKETS (SN 0160037900 to Present, Including 0160037855)



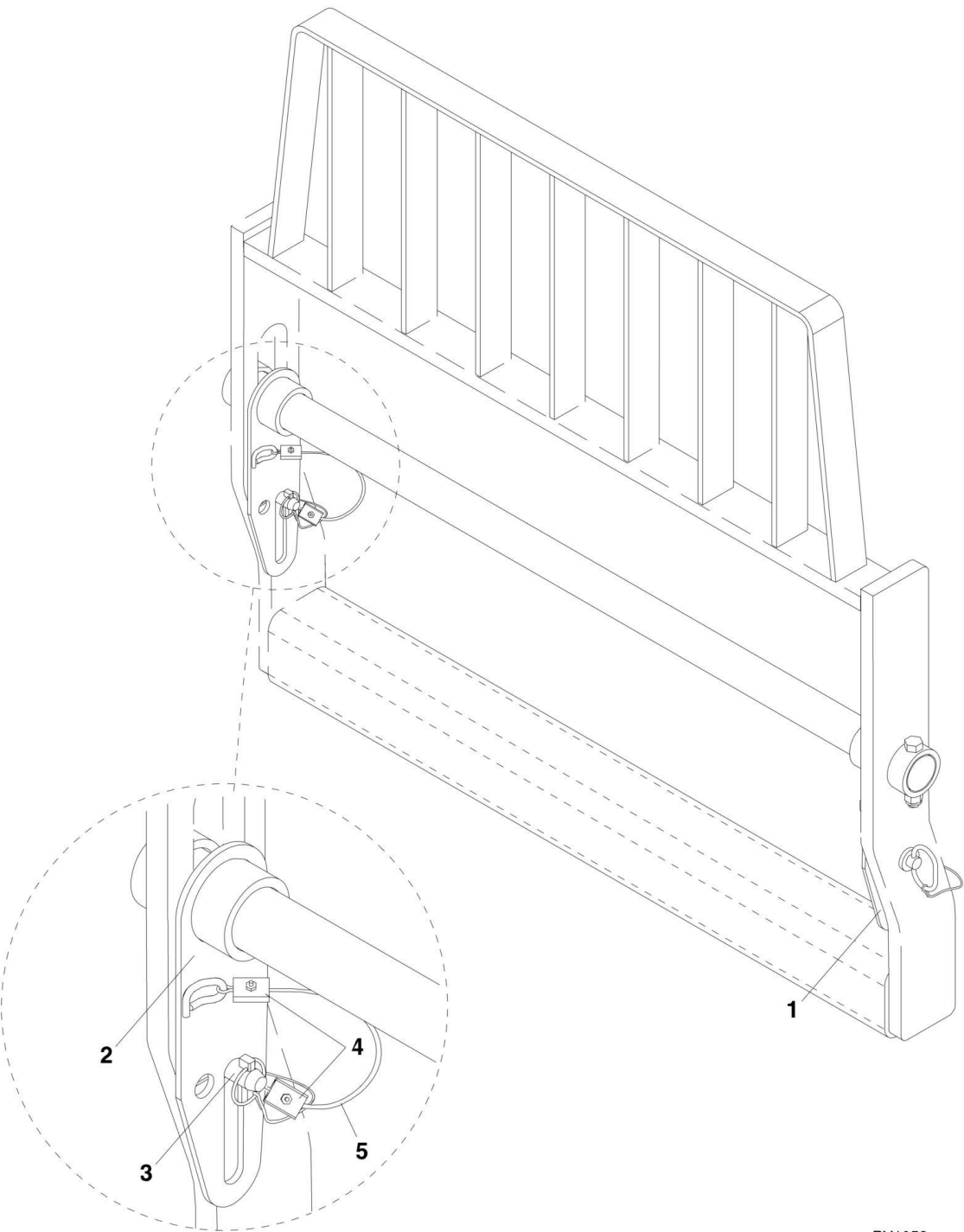
## SECTION 3 - ATTACHMENTS

**FIGURE 3-26. BUCKETS (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                         | REV |
|------|-------------|-----|-------------------------------------|-----|
|      | 1001100822  | 1   | 72IN BUCKET, 1.0 <sup>3</sup> YARD  | B   |
|      | 1001100823  | 1   | 96IN BUCKET, 1.5 <sup>3</sup> YARD  | B   |
|      | 1001100824  | 1   | 102IN BUCKET, 2.0 <sup>3</sup> YARD | B   |

**SECTION 3 - ATTACHMENTS**

**FIGURE 3-27. FORK PIN LOCK INSTALLATION (SN 0160037900 to Present, Including 0160037855)**



PY1650

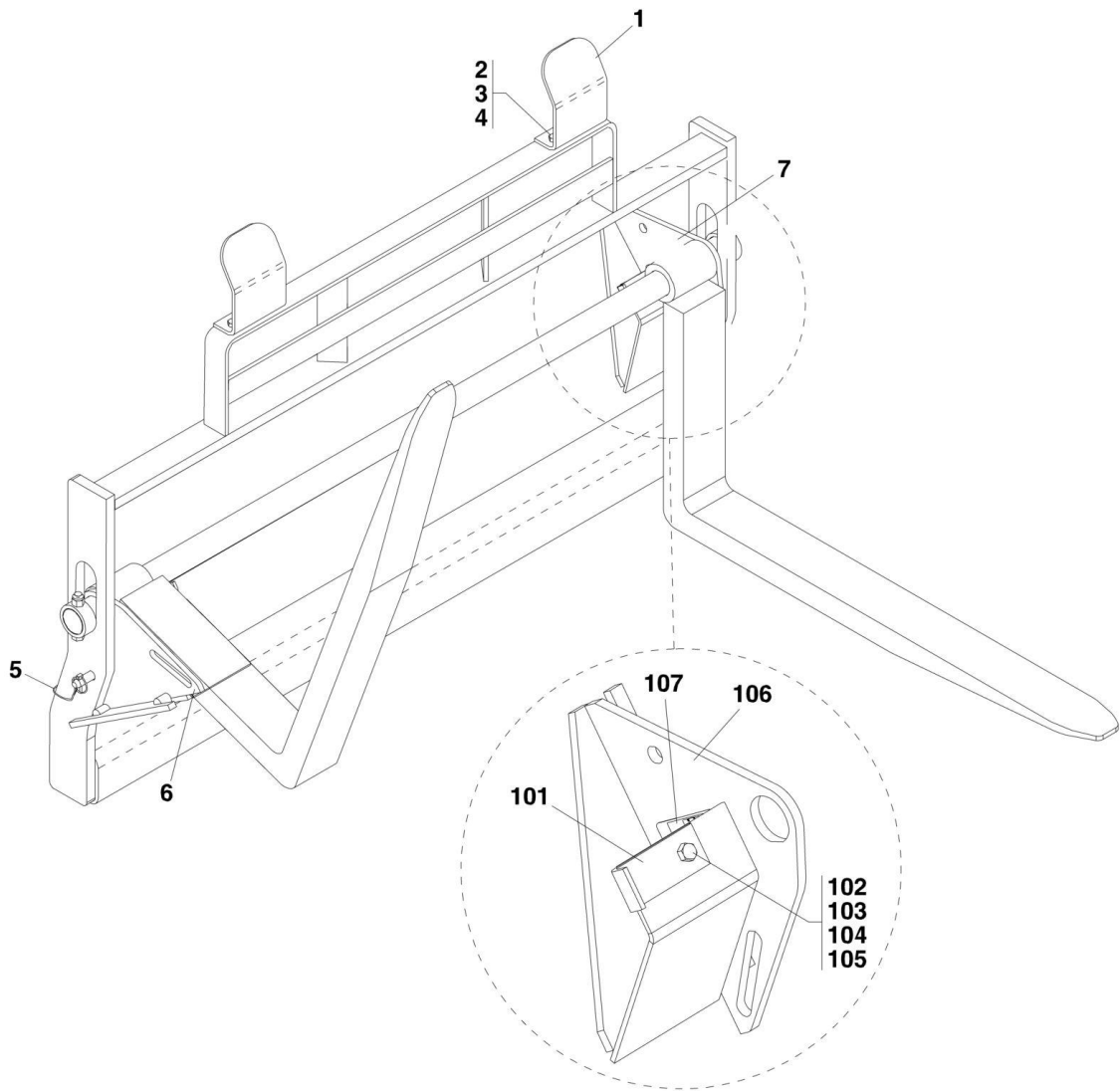
## SECTION 3 - ATTACHMENTS

**FIGURE 3-27. FORK PIN LOCK INSTALLATION (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                         | REV |
|------|-------------|-----|-------------------------------------------------------------------------------------|-----|
|      | 1001093465  | 1   | FORK PIN LOCK INSTALLATION (not available to order, see items 1 thru 5 for service) | B   |
| 1    | 0240156     | 1   | LH FORK PIN LOCK                                                                    |     |
| 2    | 1001093273  | 1   | RH FORK PIN LOCK                                                                    |     |
| 3    | 1001093377  | 2   | HITCH PIN                                                                           |     |
| 4    | 1001094830  | 4   | CLAMP                                                                               |     |
| 5    | 1001094330  | 2   | LANYARD                                                                             |     |

SECTION 3 - ATTACHMENTS

FIGURE 3-28. SHEET MATERIAL HANDLER



PY1510



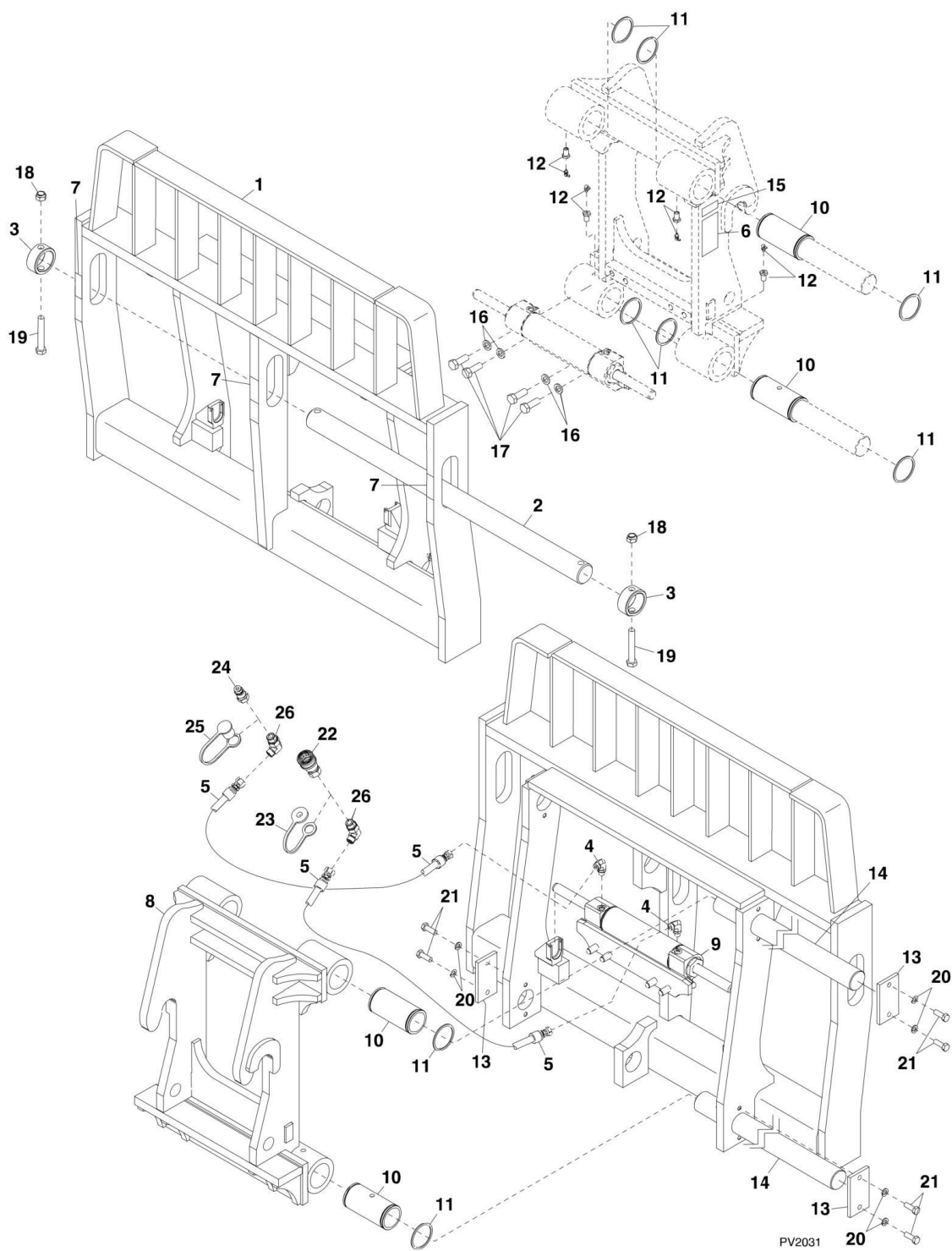
## SECTION 3 - ATTACHMENTS

**FIGURE 3-28. SHEET MATERIAL HANDLER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                            | REV |
|------|-------------|-----|--------------------------------------------------------|-----|
|      | 1001100227  | 1   | SHEET MATERIAL HANDLER ASSY, (includes items 1 thru 7) | A   |
| 1    | 7112642     | 2   | BACKREST EXTENSION                                     |     |
| 2    | 8303626     | 4   | HEX HD CAPSCREW, 1/2-13X1-1/2, GR5                     |     |
| 3    | 8305012     | 4   | HEX NUT, 1/2-13                                        |     |
| 4    | 8307007     | 4   | LOCK WASHER, 1/2                                       |     |
| 5    | 1001093377  | 2   | HITCH PIN                                              |     |
| 6    | 1001101115  | 1   | RH FORK SUPPORT ASSY, (includes items 101 thru 107)    | A   |
| 7    | 1001101116  | 1   | LH FORK SUPPORT ASSY, (includes items 101 thru 107)    | B   |
| 101  | 7114941     | 1   | LOCK BAR                                               |     |
| 102  | 8303626     | 1   | HEX HD CAPSCREW, 1/2-13X1-1/2, GR5                     |     |
| 103  | 8305644     | 1   | HEX LOCK NUT, 1/2-13                                   |     |
| 104  | 8307007     | 1   | LOCK WASHER, 1/2                                       |     |
| 105  | 8307112     | 1   | WASHER, 1/2                                            |     |
| 106  | N.S.S.      | 1   | FORK SUPPORT RH, (not shown)                           |     |
| 106  | N.S.S.      | 1   | FORK SUPPORT LH, (shown)                               |     |
| 107  | N.S.S.      | 1   | SN PLATE                                               |     |

SECTION 3 - ATTACHMENTS

FIGURE 3-29. 50IN SIDE SHIFT CARRIAGE (SN 0160037900 to Present, Including 0160037855)



## SECTION 3 - ATTACHMENTS

**FIGURE 3-29. 50IN SIDE SHIFT CARRIAGE (SN 0160037900 to Present, Including 0160037855)**

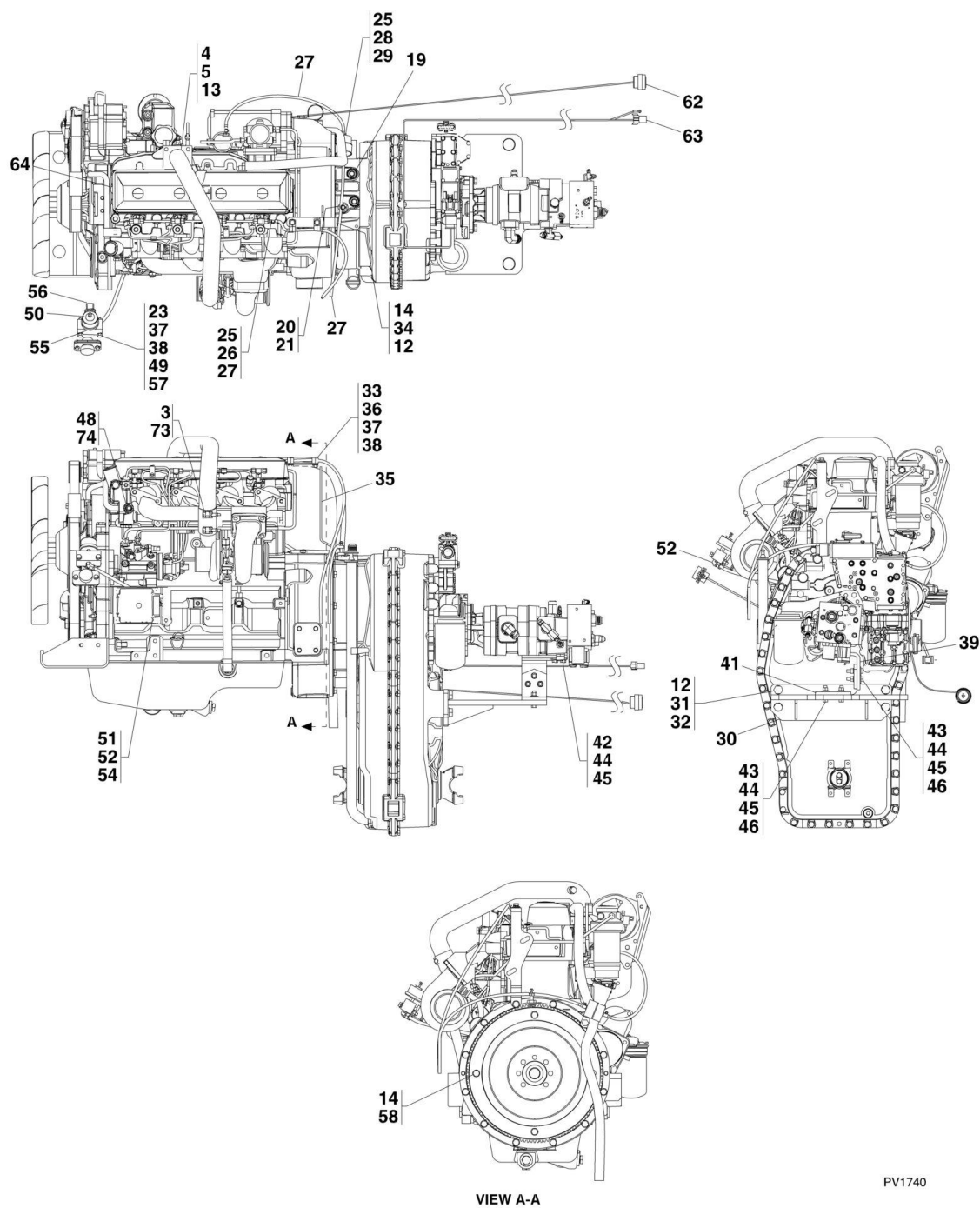
| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                | REV |
|------|-------------|-----|----------------------------------------------------------------------------|-----|
|      | 1001142790  | 1   | 50IN SIDE SHIFT CARRIAGE, (includes all items)                             | B   |
| 1    | N.S.S.      | 1   | WELDMENT                                                                   |     |
| 2    | 70024535    | 1   | SHAFT                                                                      |     |
| 3    | 70024536    | 2   | COLLAR                                                                     |     |
| 4    | 70024123    | 2   | ADAPTER, 90, (includes o-ring)                                             |     |
| 5    | 70024537    | 2   | HOSE ASSEMBLY                                                              |     |
| 6    | N.S.S.      | 1   | SN PLATE                                                                   |     |
| 7    | 70024538    | 3   | WARNING DECAL                                                              |     |
| 8    | N.S.S.      | 1   | WELDMENT                                                                   |     |
| 9    |             | Ref | 50IN SIDE SHIFT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| 10   | 70024540    | 4   | BUSHING                                                                    |     |
| 11   | 70024541    | 8   | CIRCLIP                                                                    |     |
| 12   | 70024542    | 4   | GREASE FITTING                                                             |     |
| 13   | 70024543    | 4   | RETAINER                                                                   |     |
| 14   | 70024544    | 2   | SHAFT                                                                      |     |
| 15   | N.S.S.      | 1   | SN PLATE                                                                   |     |
| 16   | 70024551    | 4   | LOCKWASHER, 16mm                                                           |     |
| 17   | 70024552    | 4   | HEX HD CAPSCREW, M16X45, GR10.9                                            |     |
| 18   | 70024553    | 2   | HEX NUT, M16, GR8                                                          |     |
| 19   | 70024554    | 2   | HEX HD CAPSCREW, M16X100, GR10.9                                           |     |
| 20   | 70022997    | 8   | LOCKWASHER, 12mm                                                           |     |
| 21   | 70024555    | 8   | HEX HD CAPSCREW, M12X35, GR10.9                                            |     |
| 22   | 91403413    | 1   | FEMALE QUICK DISCONNECT                                                    |     |
| 23   | 8420055     | 1   | DUST PLUG                                                                  |     |
| 24   | 91403414    | 1   | MALE QUICK DISCONNECT                                                      |     |
| 25   | 8420053     | 1   | DUST CAP                                                                   |     |
| 26   | 70024550    | 2   | ADAPTER, 90, (includes o-ring)                                             |     |
| K1   | 70024545    | 1   | HYDRAULIC REPAIR KIT, (includes items 5, 22 thru 26)                       | B   |
| K2   | 70024546    | 1   | RETAINER KIT, (includes items 13, 20 & 21)                                 | B   |



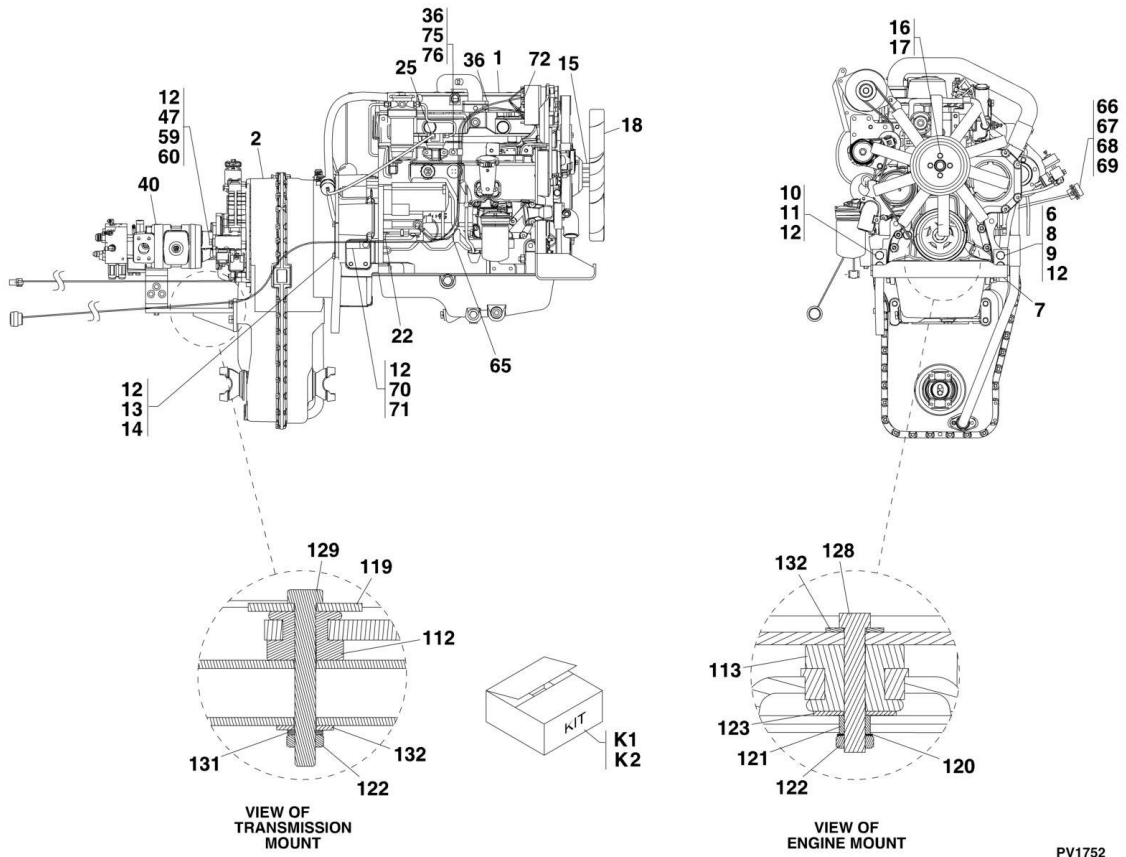
**SECTION 4 - ENGINE AND ATTACHING PARTS**

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-1. ENGINE INSTALLATION (SN 0160009654 through 0160018506, Including 0160008714)



# SECTION 4 - ENGINE AND ATTACHING PARTS



## SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-1. ENGINE INSTALLATION (SN 0160009654 through 0160018506, Including 0160008714)**

| ITEM | PART NUMBER | QTY   | DESCRIPTION                                                                                 | REV |
|------|-------------|-------|---------------------------------------------------------------------------------------------|-----|
|      | 0274396     | Ref   | ENGINE INSTALLATION, (not available to order, see items 1 thru 71 & 73 thru 76 for service) | I   |
| 1    |             | Ref   | JOHN DEERE ENGINE, (See ENGINE for Breakdown)                                               |     |
| 2    |             | Ref   | ZF TRANSMISSION, (See DRIVE TRAIN SECTION for Breakdown)                                    |     |
| 3    | 2720550     | 1     | AIR INTAKE HOSE COUPLING                                                                    |     |
| 4    | 3460480     | 1     | AIR INTAKE HOSE                                                                             |     |
| 5    | 91553057    | 1     | INTAKE GASKET                                                                               |     |
| 6    | 0642022     | 2     | HEX HD CAPSCREW, 5/8-11X2-3/4                                                               |     |
| 7    | 10265156    | 1     | ENGINE MOUNT                                                                                |     |
| 8    | 10701314    | 4     | LOCKWASHER, 5/8                                                                             |     |
| 9    | 10701512    | 2     | HEX NUT, 5/8-11                                                                             |     |
| 10   | 10704303    | 2     | SOCKET HD CAPSCREW, M16X2.0X40, GR8.8                                                       |     |
| 11   | 10704611    | 2     | LOCKWASHER, M16                                                                             |     |
| 12   | 0100011     | AR    | LOCTITE 242                                                                                 |     |
| 13   | 0711014     | 13    | HEX HD CAPSCREW, M10X30, (torque to 53-58 lb-ft)                                            |     |
| 14   | 4812000     | 16    | WASHER, 10mm                                                                                |     |
| 15   | 0080270     | 1     | FAN SPACER                                                                                  |     |
| 16   | 0700822     | 4     | HEX HD CAPSCREW, M8X70                                                                      |     |
| 17   | 4811900     | 4     | WASHER, 8mm                                                                                 |     |
| 18   | 10728734    | 1     | FAN                                                                                         |     |
| 19   | 2220408     | 2     | CONNECTOR, (includes o-ring)                                                                |     |
| 19   | 88591206    | 2     | O-RING                                                                                      |     |
| 20   | 2180858     | 1     | CONNECTOR, 1/8 NPT TO 3/4 ORB                                                               |     |
| 21   | 10719472    | 1     | OIL TEMP SENDER                                                                             |     |
| 22   | 5251016     | 1     | HEX HD CAPSCREW, M10X40, FLNG                                                               |     |
| 23   | 8130647     | 2     | LOCKWASHER, M8                                                                              |     |
| 25   | 8405009     | 4     | HOSE CLAMP                                                                                  |     |
| 26   | 80373025    | 1     | PUSH-LOCK FITTING                                                                           |     |
| 27   | 82092118    | 17 ft | HOSE, 5/16IN                                                                                |     |
| 28   | 90028660    | 1     | LOOP CLAMP                                                                                  |     |
| 29   | 91083218    | 1     | FUEL STRAINER                                                                               |     |
| 30   | 4341019     | 1     | TRANSMISSION MOUNT WELDMENT                                                                 |     |
| 31   | 8307049     | 4     | LOCKWASHER, M16                                                                             |     |
| 32   | 0701617     | 4     | HEX HD CAPSCREW, M16X45                                                                     |     |
| 33   | 0641506     | 2     | HEX HD CAPSCREW, 5/16-18X3/4                                                                |     |
| 34   | 0711015     | 1     | HEX HD CAPSCREW, M10X35, (torque to 53-58 lb-ft)                                            |     |
| 35   | 0903245     | 1     | INTAKE TUBE SUPPORT BRACKET                                                                 |     |
| 36   | 8406101     | 4     | HOSE CLAMP                                                                                  |     |
| 37   | 3271501     | 4     | HEX NUT, 5/16                                                                               |     |
| 38   | 4711500     | 8     | WASHER, 5/16                                                                                |     |
| 39   | 0903213     | 1     | UPPER PUMP SUPPORT BRACKET                                                                  |     |
| 40   | N.S.S.      | 1     | VALVE AND PUMP ASSY                                                                         |     |
| 40   |             | Ref   | ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                  |     |
| 40   | 3931648     | 4     | SOCKET HD CAPSCREW, 3/8-16X3, (Accum Charge Valve to Pump)                                  |     |
| 40   |             | Ref   | TANDEM PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                               |     |
| 41   | 10239839    | 1     | LOWER PUMP SUPPORT BRACKET                                                                  |     |
| 42   | 10700205    | 2     | HEX HD CAPSCREW, 3/8-16X1-1/4                                                               |     |

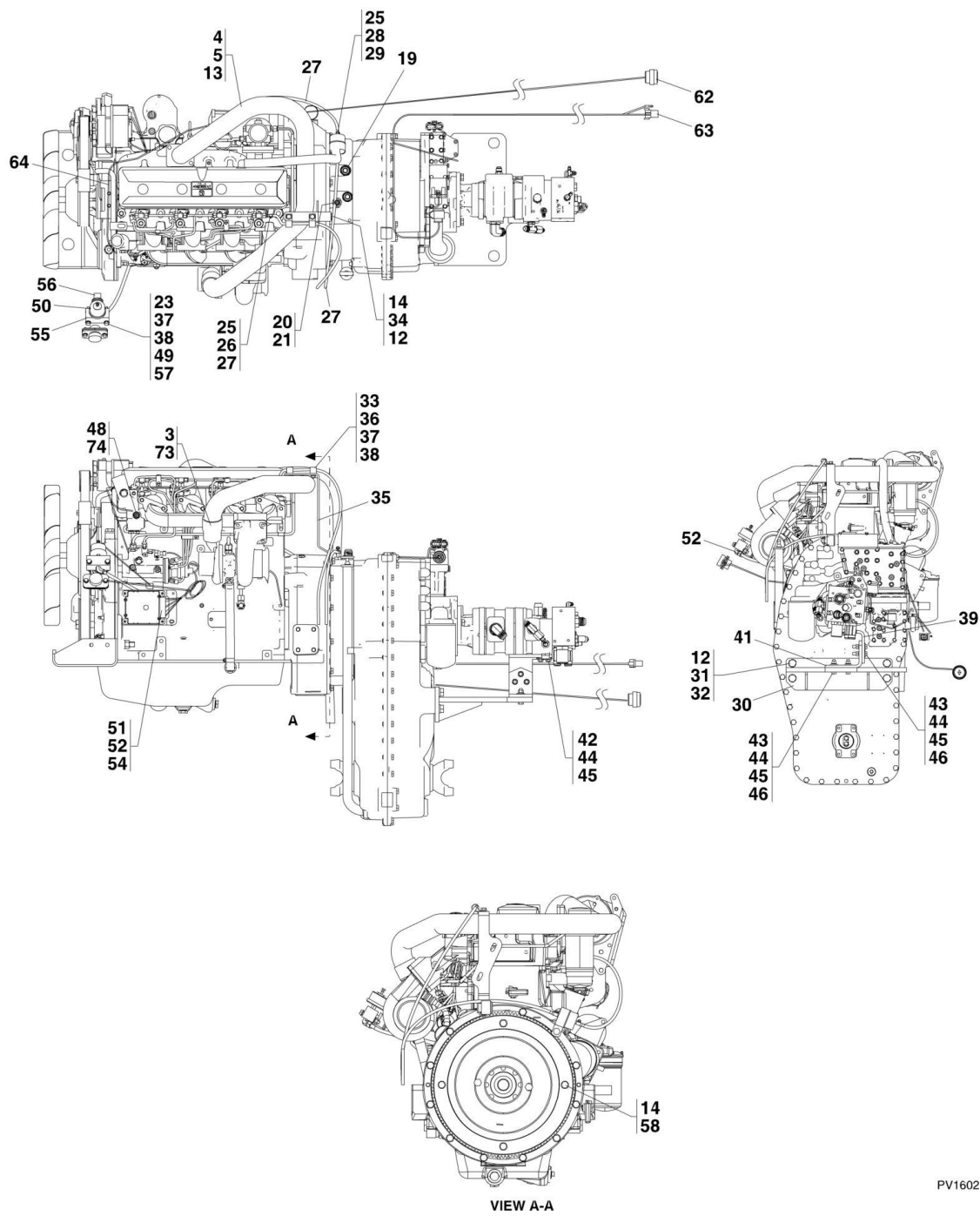


## SECTION 4 - ENGINE AND ATTACHING PARTS

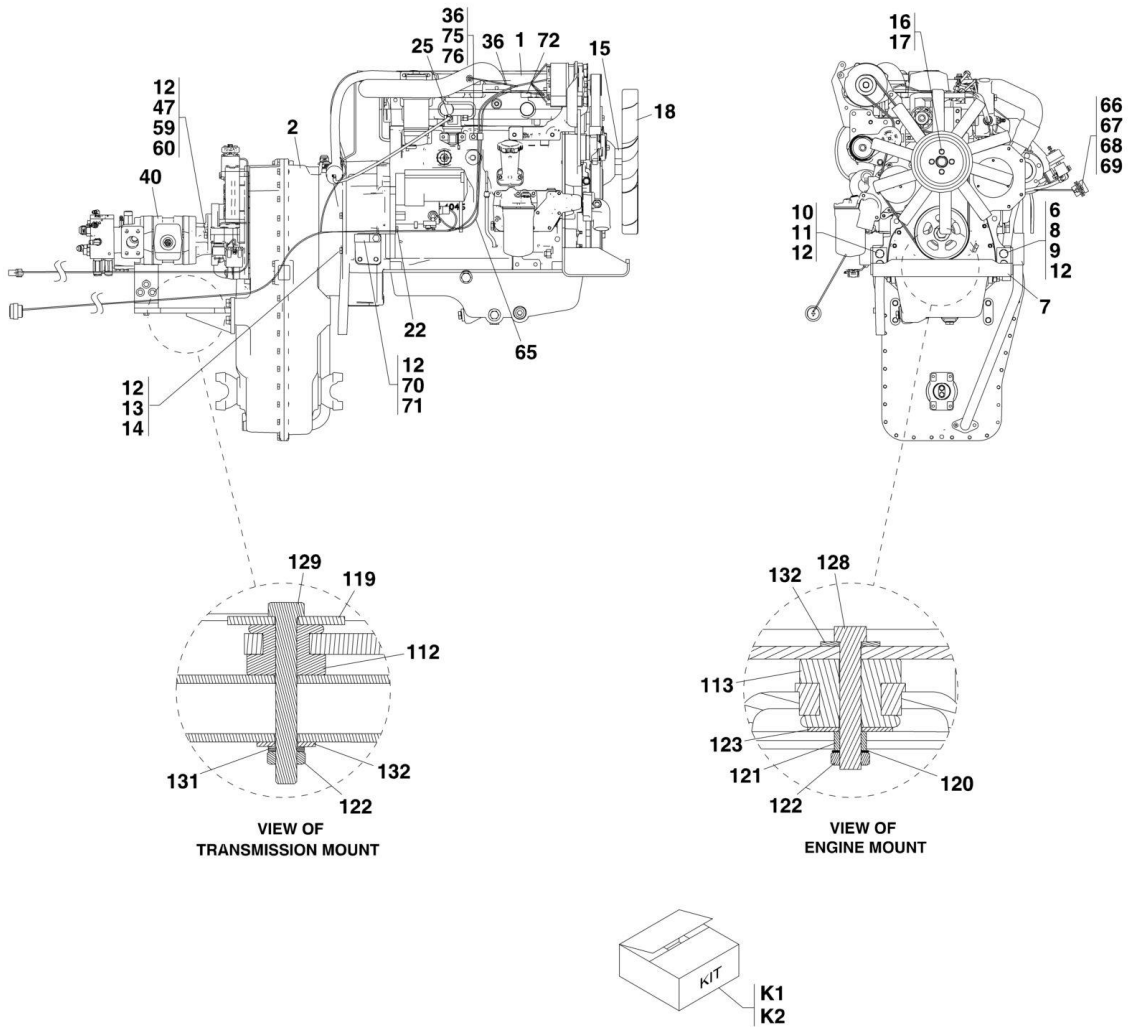
| ITEM | PART NUMBER | QTY    | DESCRIPTION                                                                                                                                                                                            | REV |
|------|-------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 43   | 10700207    | 5      | HEX HD CAPSCREW, 3/8-16X1-3/4                                                                                                                                                                          |     |
| 44   | 10701277    | 7      | HARDENED FLAT WASHER, 3/8IN                                                                                                                                                                            |     |
| 45   | 10701310    | 7      | LOCKWASHER, 3/8                                                                                                                                                                                        |     |
| 46   | 10701508    | 5      | HEX NUT, 3/8-16                                                                                                                                                                                        |     |
| 47   | 10718602    | 1      | O-RING                                                                                                                                                                                                 |     |
| 48   | 10723222    | 1      | WATER TEMP SENDER                                                                                                                                                                                      |     |
| 49   | 4761500     | 2      | LOCKWASHER, 5/16                                                                                                                                                                                       |     |
| 50   | 10723217    | 1      | OIL PRESSURE SENDER                                                                                                                                                                                    |     |
| 51   | 72071980    | 1.5 ft | NYLON HOSE, 3/8IN                                                                                                                                                                                      |     |
| 52   | 86883074    | 2      | ELBOW, 90, 1/8 NPT TO 3/8 TUBE                                                                                                                                                                         |     |
| 54   | 88711570    | 1      | PIPE ADAPTER                                                                                                                                                                                           |     |
| 55   | 91081388    | 1      | TAPPED BAR                                                                                                                                                                                             |     |
| 56   | 91563122    | 1      | OIL PRESSURE SWITCH                                                                                                                                                                                    |     |
| 57   | 0641518     | 2      | HEX HD CAPSCREW, 5/16-18X2-1/4                                                                                                                                                                         |     |
| 58   | 0761012     | 4      | HEX HD CAPSCREW, M10X25                                                                                                                                                                                |     |
| 59   | 0701216     | 2      | HEX HD CAPSCREW, M12X40                                                                                                                                                                                |     |
| 60   | 4832100     | 2      | SPRING LOCKWASHER, M12                                                                                                                                                                                 |     |
| 62   |             | Ref    | ENGINE ECU HARNESS, (See ELECTRICAL SECTION for Breakdown)                                                                                                                                             |     |
| 63   |             | Ref    | TRANSMISSION SOLENOID HARNESS, (See ELECTRICAL SECTION for Breakdown)                                                                                                                                  |     |
| 64   | 10720496    | 2      | TIE WRAP                                                                                                                                                                                               |     |
| 65   | 1033820006  | 1      | JUMPER WIRE, 26IN                                                                                                                                                                                      |     |
| 66   | 0641408     | 2      | HEX HD CAPSCREW, 1/4-20X1                                                                                                                                                                              |     |
| 67   | 3311405     | 2      | HEX LOCKNUT, 1/4-20                                                                                                                                                                                    |     |
| 68   | 4711400     | 4      | WASHER, 1/4                                                                                                                                                                                            |     |
| 69   | 91561291    | 2      | MOUNT PLATE                                                                                                                                                                                            |     |
| 70   | 1320239     | 1      | CLAMP, 1-3/4                                                                                                                                                                                           |     |
| 71   | 0701210     | 1      | HEX HD CAPSCREW, M12X20                                                                                                                                                                                |     |
| 72   |             | Ref    | DIODE HARNESS, (supplied with engine), (See ELECTRICAL SECTION for Breakdown)                                                                                                                          |     |
| 73   | 8405209     | 1      | T-BOLT CLAMP                                                                                                                                                                                           |     |
| 74   | 91403265    | 1      | REDUCER, 14mm                                                                                                                                                                                          |     |
| 75   | 8303784     | 1      | HEX HD CAPSCREW, M10X1.5X20mm, PC8.8                                                                                                                                                                   |     |
| 76   | 8307221     | 1      | PLAIN WASHER, M10                                                                                                                                                                                      |     |
| 77   | 10837776    | 1      | BLOCK HEATER, 120V, (not shown)                                                                                                                                                                        |     |
| 112  | 10732961    | 2      | CENTER BONDED MOUNT                                                                                                                                                                                    |     |
| 113  | 10718181    | 1      | CENTER BONDED ISOLATOR                                                                                                                                                                                 |     |
| 119  | 10115616    | 2      | MOUNT WASHER                                                                                                                                                                                           |     |
| 120  | 4792000     | 1      | STAR WASHER, 5/8                                                                                                                                                                                       |     |
| 121  | 10701535    | 1      | HEX NUT, 5/8-18                                                                                                                                                                                        |     |
| 122  | 10701585    | 3      | JAM NUT, 5/8-18                                                                                                                                                                                        |     |
| 123  | 10115618    | 1      | SNUBBING WASHER                                                                                                                                                                                        |     |
| 128  | 10700690    | 1      | HEX HD CAPSCREW, 5/8-18X3-3/4, GR8                                                                                                                                                                     |     |
| 129  | 10700693    | 2      | HEX HD CAPSCREW, 5/8-18X5, GR8                                                                                                                                                                         |     |
| 131  | 10701314    | 2      | LOCKWASHER, 5/8                                                                                                                                                                                        |     |
| 132  | 10701408    | 3      | WASHER, 5/8                                                                                                                                                                                            |     |
| K1   | 2915065     | 1      | 250 HOUR FILTER KIT, (includes engine oil filter, primary fuel filter, in-line fuel filter, primary air filter and safety air filter)                                                                  |     |
| K2   | 2915066     | 1      | 1000 HOUR FILTER KIT, (includes engine oil filter, primary fuel filter, in-line fuel filter, primary air filter, safety air filter, transmission oil filter, hydraulic oil filter and breather filter) |     |

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-2. ENGINE INSTALLATION (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)



# SECTION 4 - ENGINE AND ATTACHING PARTS



PAP14910

## SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-2. ENGINE INSTALLATION (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)**

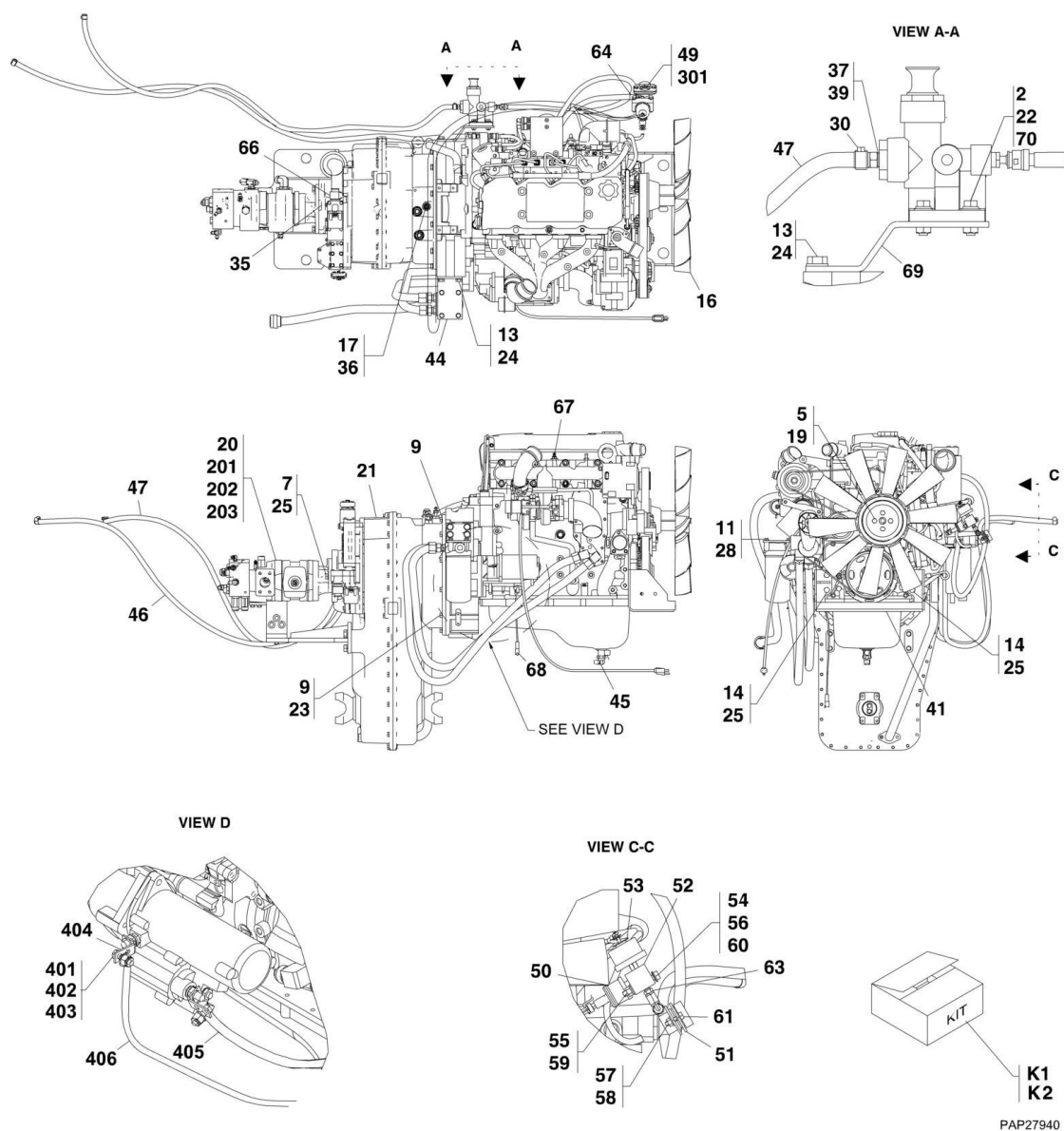
| ITEM | PART NUMBER | QTY   | DESCRIPTION                                                                                 | REV |
|------|-------------|-------|---------------------------------------------------------------------------------------------|-----|
|      | 0274396     | Ref   | ENGINE INSTALLATION, (not available to order, see items 1 thru 71 & 73 thru 76 for service) | M   |
| 1    |             | Ref   | JOHN DEERE ENGINE, (See ENGINE for Breakdown)                                               |     |
| 2    |             | Ref   | ZF TRANSMISSION, (See DRIVE TRAIN SECTION for Breakdown)                                    |     |
| 3    | 2720550     | 1     | AIR INTAKE HOSE COUPLING                                                                    |     |
| 4    | 3460480     | 1     | AIR INTAKE HOSE                                                                             |     |
| 5    | 91553057    | 1     | INTAKE GASKET                                                                               |     |
| 6    | 0642022     | 2     | HEX HD CAPSCREW, 5/8-11X2-3/4                                                               |     |
| 7    | 10265156    | 1     | ENGINE MOUNT                                                                                |     |
| 8    | 10701314    | 4     | LOCKWASHER, 5/8                                                                             |     |
| 9    | 10701512    | 2     | HEX NUT, 5/8-11                                                                             |     |
| 10   | 10704303    | 2     | SOCKET HD CAPSCREW, M16X2.0X40, GR8.8                                                       |     |
| 11   | 10704611    | 2     | LOCKWASHER, M16                                                                             |     |
| 12   | 0100011     | AR    | LOCTITE 242                                                                                 |     |
| 13   | 0711014     | 13    | HEX HD CAPSCREW, M10X30, (torque to 53-58 lb-ft)                                            |     |
| 14   | 4812000     | 16    | WASHER, 10mm                                                                                |     |
| 15   | 0080270     | 1     | FAN SPACER                                                                                  |     |
| 16   | 0700822     | 4     | HEX HD CAPSCREW, M8X70                                                                      |     |
| 17   | 4811900     | 4     | WASHER, 8mm                                                                                 |     |
| 18   | 10728734    | 1     | FAN                                                                                         |     |
| 19   | 2220408     | 2     | CONNECTOR, (includes o-ring)                                                                |     |
| 19   | 88591206    | 2     | O-RING                                                                                      |     |
| 20   | 2180858     | 1     | CONNECTOR, 1/8 NPT TO 3/4 ORB                                                               |     |
| 21   | 10719472    | 1     | OIL TEMP SENDER                                                                             |     |
| 22   | 5251016     | 1     | HEX HD CAPSCREW, M10X40, FLNG                                                               |     |
| 23   | 8310647     | 2     | LOCKWASHER, M8                                                                              |     |
| 25   | 8405009     | 4     | HOSE CLAMP                                                                                  |     |
| 26   | 80373025    | 1     | PUSH-LOCK FITTING                                                                           |     |
| 27   | 82092118    | 17 ft | HOSE, 5/16IN                                                                                |     |
| 28   | 90028660    | 1     | LOOP CLAMP                                                                                  |     |
| 29   | 91083218    | 1     | FUEL STRAINER                                                                               |     |
| 30   | 4341019     | 1     | TRANSMISSION MOUNT WELDMENT                                                                 |     |
| 31   | 8307049     | 4     | LOCKWASHER, M16                                                                             |     |
| 32   | 0701617     | 4     | HEX HD CAPSCREW, M16X45                                                                     |     |
| 33   | 0641506     | 2     | HEX HD CAPSCREW, 5/16-18X3/4                                                                |     |
| 34   | 0711015     | 1     | HEX HD CAPSCREW, M10X35, (torque to 53-58 lb-ft)                                            |     |
| 35   | 0903245     | 1     | INTAKE TUBE SUPPORT BRACKET                                                                 |     |
| 36   | 8406101     | 4     | HOSE CLAMP                                                                                  |     |
| 37   | 3271501     | 4     | HEX NUT, 5/16                                                                               |     |
| 38   | 4711500     | 8     | WASHER, 5/16                                                                                |     |
| 39   | 0903213     | 1     | UPPER PUMP SUPPORT BRACKET                                                                  |     |
| 40   | N.S.S.      | 1     | VALVE AND PUMP ASSY                                                                         |     |
| 40   |             | Ref   | ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                  |     |
| 40   | 3931648     | 4     | SOCKET HD CAPSCREW, 3/8-16X3, (Accum Charge Valve to Pump)                                  |     |
| 40   |             | Ref   | TANDEM PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                               |     |
| 41   | 10239839    | 1     | LOWER PUMP SUPPORT BRACKET                                                                  |     |

## SECTION 4 - ENGINE AND ATTACHING PARTS

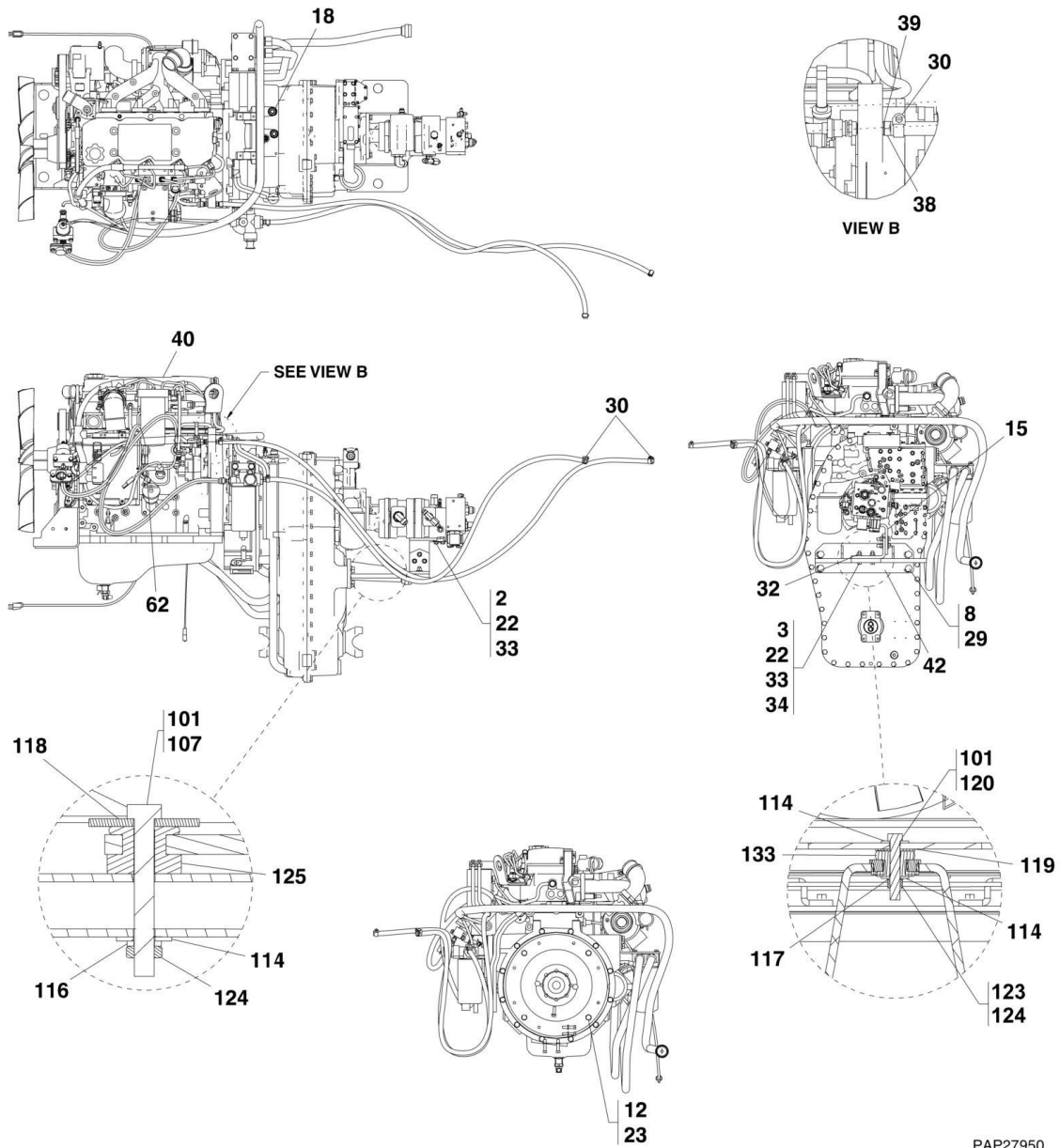
| ITEM | PART NUMBER | QTY    | DESCRIPTION                                                                                                                                                                                            | REV |
|------|-------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 42   | 10700205    | 2      | HEX HD CAPSCREW, 3/8-16X1-1/4                                                                                                                                                                          |     |
| 43   | 10700207    | 5      | HEX HD CAPSCREW, 3/8-16X1-3/4                                                                                                                                                                          |     |
| 44   | 10701277    | 7      | HARDENED FLAT WASHER, 3/8IN                                                                                                                                                                            |     |
| 45   | 10701310    | 7      | LOCKWASHER, 3/8                                                                                                                                                                                        |     |
| 46   | 10701508    | 5      | HEX NUT, 3/8-16                                                                                                                                                                                        |     |
| 47   | 10718602    | 1      | O-RING                                                                                                                                                                                                 |     |
| 48   | 10723222    | 1      | WATER TEMP SENDER                                                                                                                                                                                      |     |
| 49   | 4761500     | 2      | LOCKWASHER, 5/16                                                                                                                                                                                       |     |
| 50   | 10723217    | 1      | OIL PRESSURE SENDER                                                                                                                                                                                    |     |
| 51   | 72071980    | 1.5 ft | NYLON HOSE, 3/8IN                                                                                                                                                                                      |     |
| 52   | 86883074    | 2      | ELBOW, 90, 1/8 NPT TO 3/8 TUBE                                                                                                                                                                         |     |
| 54   | 88711570    | 1      | PIPE ADAPTER                                                                                                                                                                                           |     |
| 55   | 91081388    | 1      | TAPPED BAR                                                                                                                                                                                             |     |
| 56   | 91563122    | 1      | OIL PRESSURE SWITCH                                                                                                                                                                                    |     |
| 57   | 0641518     | 2      | HEX HD CAPSCREW, 5/16-18X2-1/4                                                                                                                                                                         |     |
| 58   | 0761012     | 4      | HEX HD CAPSCREW, M10X25                                                                                                                                                                                |     |
| 59   | 0701216     | 2      | HEX HD CAPSCREW, M12X40                                                                                                                                                                                |     |
| 60   | 4832100     | 2      | SPRING LOCKWASHER, M12                                                                                                                                                                                 |     |
| 62   |             | Ref    | ENGINE ECU HARNESS, (See ELECTRICAL SECTION for Breakdown)                                                                                                                                             |     |
| 63   |             | Ref    | TRANSMISSION SOLENOID HARNESS, (See ELECTRICAL SECTION for Breakdown)                                                                                                                                  |     |
| 64   | 10720496    | 2      | TIE WRAP                                                                                                                                                                                               |     |
| 65   | 1033820006  | 1      | JUMPER WIRE, 26IN                                                                                                                                                                                      |     |
| 66   | 0641408     | 2      | HEX HD CAPSCREW, 1/4-20X1                                                                                                                                                                              |     |
| 67   | 3311405     | 2      | HEX LOCKNUT, 1/4-20                                                                                                                                                                                    |     |
| 68   | 4711400     | 4      | WASHER, 1/4                                                                                                                                                                                            |     |
| 69   | 91561291    | 2      | MOUNT PLATE                                                                                                                                                                                            |     |
| 70   | 80673023    | 1      | SUPPORT CLAMP                                                                                                                                                                                          |     |
| 71   | 0701210     | 1      | HEX HD CAPSCREW, M12X20                                                                                                                                                                                |     |
| 72   |             | Ref    | DIODE HARNESS, (supplied with engine), (See ELECTRICAL SECTION for Breakdown)                                                                                                                          |     |
| 73   | 8405209     | 1      | T-BOLT CLAMP                                                                                                                                                                                           |     |
| 74   | 91403265    | 1      | REDUCER, 14mm                                                                                                                                                                                          |     |
| 75   | 8303784     | 1      | HEX HD CAPSCREW, M10X1.5X20mm, PC8.8                                                                                                                                                                   |     |
| 76   | 8307221     | 1      | PLAIN WASHER, M10                                                                                                                                                                                      |     |
| 77   | 10837776    | 1      | BLOCK HEATER, 120V, (not shown)                                                                                                                                                                        |     |
| 112  | 10732961    | 2      | CENTER BONDED MOUNT                                                                                                                                                                                    |     |
| 113  | 10718181    | 1      | CENTER BONDED ISOLATOR                                                                                                                                                                                 |     |
| 119  | 10115616    | 2      | MOUNT WASHER                                                                                                                                                                                           |     |
| 120  | 4792000     | 1      | STAR WASHER, 5/8                                                                                                                                                                                       |     |
| 121  | 10701535    | 1      | HEX NUT, 5/8-18                                                                                                                                                                                        |     |
| 122  | 10701585    | 3      | JAM NUT, 5/8-18                                                                                                                                                                                        |     |
| 123  | 10115618    | 1      | SNUBBING WASHER                                                                                                                                                                                        |     |
| 128  | 10700690    | 1      | HEX HD CAPSCREW, 5/8-18X3-3/4, GR8                                                                                                                                                                     |     |
| 129  | 10700693    | 2      | HEX HD CAPSCREW, 5/8-18X5, GR8                                                                                                                                                                         |     |
| 131  | 10701314    | 2      | LOCKWASHER, 5/8                                                                                                                                                                                        |     |
| 132  | 10701408    | 3      | WASHER, 5/8                                                                                                                                                                                            |     |
| K1   | 2915065     | 1      | 250 HOUR FILTER KIT, (includes engine oil filter, primary fuel filter, in-line fuel filter, primary air filter and safety air filter)                                                                  |     |
| K2   | 2915066     | 1      | 1000 HOUR FILTER KIT, (includes engine oil filter, primary fuel filter, in-line fuel filter, primary air filter, safety air filter, transmission oil filter, hydraulic oil filter and breather filter) |     |

## SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-3. ENGINE INSTALLATION (SN 0160040413 to Present, Including 0160037824 and 0160038521)**



# SECTION 4 - ENGINE AND ATTACHING PARTS



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## SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-3. ENGINE INSTALLATION (SN 0160040413 to Present, Including 0160037824 and 0160038521)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                                            | REV |
|------|-------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|      | 1001096071  | Ref | ENGINE INSTALLATION, (not available to order, see items 1 thru 70 for service ) <b>(Prior to SN 0160051140, Excluding 0160050734 and 0160050735)</b>   | L   |
|      | 1001115056  | Ref | ENGINE INSTALLATION, (not available to order, see items 1 thru 70 for service ) <b>(SN 0160051140 to Present, Including 0160050734 and 0160050735)</b> | A   |
| 1    | 0100011     | AR  | LOCTITE 242                                                                                                                                            |     |
| 2    | 0641610     | 4   | HEX HD CAPSCREW, 3/8-16X1-1/4, GR5                                                                                                                     |     |
| 3    | 0641614     | 5   | HEX HD CAPSCREW, 3/8-16X1-3/4, GR5                                                                                                                     |     |
| 5    | 8310645     | 4   | HEX HD CAPSCREW, M10X100, GR8.8, (torque to 34-61 lb-ft)                                                                                               |     |
| 7    | 0701216     | 2   | HEX HD CAPSCREW, M12X40, GR8.8                                                                                                                         |     |
| 8    | 0701617     | 4   | HEX HD CAPSCREW, M16X45, GR8.8                                                                                                                         |     |
| 9    | 0711014     | 12  | HEX HD CAPSCREW, M10X30, GR10.9                                                                                                                        |     |
| 11   | 0760810     | 4   | HEX HD CAPSCREW, M8X20, GR8.8                                                                                                                          |     |
| 12   | 0761012     | 4   | HEX HD CAPSCREW, M10X25, GR8.8                                                                                                                         |     |
| 13   | 0761214     | 6   | HEX HD CAPSCREW, M12X30, GR8.8                                                                                                                         |     |
| 14   | 0761215     | 4   | HEX HD CAPSCREW, M12X35, GR8.8                                                                                                                         |     |
| 15   | 0903213     | 1   | PUMP UPPER SUPPORT BRACKET                                                                                                                             |     |
| 16   | 2060045     | 1   | FAN                                                                                                                                                    |     |
| 17   | 2180858     | 1   | CONNECTOR                                                                                                                                              |     |
| 18   | 2220408     | 2   | CONNECTOR                                                                                                                                              |     |
| 19   | 3575947     | 2   | FAN HUB PLATE                                                                                                                                          |     |
| 20   | 3600427     | 1   | VALVE AND PUMP ASSEMBLY, (includes items 201 thru 203 ) <b>(Prior to SN 0160051140, Excluding 0160050734 and 0160050735)</b>                           | B   |
| 20   | 1001115055  | 1   | VALVE AND PUMP ASSEMBLY, (includes items 201 thru 203 ) <b>(SN 0160051140 to Present, Including 0160050734 and 0160050735)</b>                         | A   |
| 21   |             | Ref | TRANSMISSION ASSEMBLY, (See DRIVE TRAIN SECTION for Breakdown)                                                                                         |     |
| 22   | 4761600     | 9   | LOCKWASHER, 3/8                                                                                                                                        |     |
| 23   | 4812000     | 16  | FLAT WASHER, 10mm                                                                                                                                      |     |
| 24   | 4812100     | 6   | FLAT WASHER, 12mm                                                                                                                                      |     |
| 25   | 4832100     | 6   | SPRING LOCKWASHER, 12mm                                                                                                                                |     |
| 28   | 5240800     | 4   | HARDENED WASHER, 8mm                                                                                                                                   |     |
| 29   | 8307049     | 4   | LOCKWASHER, 16mm                                                                                                                                       |     |
| 30   | 8410013     | 4   | GEAR CLAMP, (torque to 16-20 lb-ft)                                                                                                                    |     |
| 32   | 10239839    | 1   | PUMP LOWER SUPPORT BRACKET                                                                                                                             |     |
| 33   | 10701277    | 7   | FLAT WASHER, 3/8                                                                                                                                       |     |
| 34   | 10701508    | 5   | HEX NUT, 3/8-16                                                                                                                                        |     |
| 35   | 10718602    | 1   | O-RING                                                                                                                                                 |     |
| 36   | 10719472    | 1   | OIL TEMPERATURE SENDER                                                                                                                                 |     |
| 37   | 1001093891  | 1   | HOSE COUPLING                                                                                                                                          |     |
| 38   | 1001093892  | 1   | HOSE COUPLING                                                                                                                                          |     |
| 39   | 1001093944  | 2   | SEALING WASHER                                                                                                                                         |     |
| 40   |             | Ref | CUMMINS ENGINE, (See ENGINE for Breakdown)                                                                                                             |     |
| 41   | 1001096073  | 1   | ENGINE MOUNT WELDMENT                                                                                                                                  |     |
| 42   | 1001096412  | 1   | TRANSMISSION MOUNT WELDMENT                                                                                                                            |     |
| 44   | 1001097579  | 1   | OIL FILTER BRACKET MOUNT                                                                                                                               |     |
| 45   | 1001099493  | 1   | OIL CHANGER PLUG                                                                                                                                       |     |
| 46   | 1001103406  | 1   | FUEL RETURN HOSE                                                                                                                                       |     |



## SECTION 4 - ENGINE AND ATTACHING PARTS

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                    | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------------|-----|
| 47   | 1001103407  | 1   | FUEL SUPPLY HOSE                                                                               |     |
| 49   |             | Ref | ECU ENGINE HARNESS, (See ELECTRICAL SECTION for Breakdown)                                     |     |
| 50   | 91563122    | 1   | OIL PRESSURE SWITCH                                                                            |     |
| 51   | 91561291    | 2   | MOUNT PLATE                                                                                    |     |
| 52   | 91081388    | 1   | TAPPED BAR                                                                                     |     |
| 53   | 10723217    | 1   | ENGINE OIL PRESSURE SENDER                                                                     |     |
| 54   | 8310647     | 2   | LOCKWASHER, 8mm                                                                                |     |
| 55   | 4761500     | 2   | LOCKWASHER, 5/16                                                                               |     |
| 56   | 4711500     | 4   | FLAT WASHER, 5/16                                                                              |     |
| 57   | 4711400     | 4   | FLAT WASHER, 1/4                                                                               |     |
| 58   | 3311405     | 2   | HEX LOCKNUT, 5/16-18, GR8                                                                      |     |
| 59   | 3271501     | 2   | HEX NUT, 5/16-18, GR8                                                                          |     |
| 60   | 0641518     | 2   | HEX HD CAPSCREW, 5/16-18X2-1/4, GR5                                                            |     |
| 61   | 0641408     | 2   | HEX HD CAPSCREW, 1/4-20X1, GR5                                                                 |     |
| 62   | 8770064     | 1   | CONNECTOR                                                                                      |     |
| 63   | 2220574     | 1   | CONNECTOR                                                                                      |     |
| 64   | 1001113262  | 1   | HOSE ASSY                                                                                      |     |
| 66   |             | Ref | TRANSMISSION SOLENOID HARNESS, (See ELECTRICAL SECTION for Breakdown)                          |     |
| 67   | 10723222    | 1   | WATER TEMPERATURE SENDER                                                                       |     |
| 68   | 1001114191  | 1   | STARTER EXTENSION HARNESS                                                                      |     |
| 69   | 1001118512  | 1   | FUEL FILTER BRACKET                                                                            |     |
| 70   | 4711600     | 2   | FLAT WASHER, 3/8                                                                               |     |
| 101  | 0100011     | AR  | LOCTITE 242                                                                                    |     |
| 107  | 0692040     | 2   | HEX HD CAPSCREW, 5/8-18X5, GR8 (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)   |     |
| 107  | 10700693    | 2   | HEX HD CAPSCREW, 5/8-18X5, GR8 (SN 0160051140 to Present, Including 0160050734 and 0160050735) |     |
| 114  | 4752000     | 4   | FLAT WASHER, 5/8 (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)                 |     |
| 114  | 10701408    | 2   | FLAT WASHER, 5/8 (SN 0160051140 to Present, Including 0160050734 and 0160050735)               |     |
| 116  | 4762000     | 2   | LOCKWASHER, 5/8                                                                                |     |
| 117  | 4792000     | 1   | STAR WASHER, 5/8                                                                               |     |
| 118  | 10115616    | 2   | LORD MOUNT WASHER                                                                              |     |
| 119  | 10115618    | 1   | SNUBBING WASHER                                                                                |     |
| 120  | 10700690    | 1   | HEX HD CAPSCREW, 5/8-18X3-3/4, GR8                                                             |     |
| 123  | 10701535    | 1   | HEX NUT, 5/8-18                                                                                |     |
| 124  | 10701585    | 3   | JAM NUT, 5/8-18 (Prior to SN 0160051140, Excluding 0160050734 and 0160050735)                  |     |
| 124  | 10701585    | 2   | JAM NUT, 5/8-18 (SN 0160051140 to Present, Including 0160050734 and 0160050735)                |     |
| 125  | 10732961    | 2   | CENTER BONDED MOUNT                                                                            |     |
| 133  | 1001096418  | 1   | ENGINE CENTER BONDED MOUNT                                                                     |     |
| 201  |             | Ref | ACCUMULATOR VALVE ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                   |     |
| 202  | 3931648     | 4   | SOCKET HD CAPSCREW, 3/8-16X3, (torque to 35 lb-ft)                                             |     |
| 203  |             | Ref | TANDEM PUMP ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                         |     |
| 301  |             | Ref | DASH HARNESS, (See ELECTRICAL SECTION for Breakdown)                                           |     |
| 401  | 0641610     | 2   | HEX HD CAPSCREW 3/8-16X1-1/4                                                                   |     |
| 402  | 4711600     | 2   | FLAT WASHER, 3/8                                                                               |     |
| 403  | 88521206    | 2   | LOCKNUT, 3/8-16                                                                                |     |

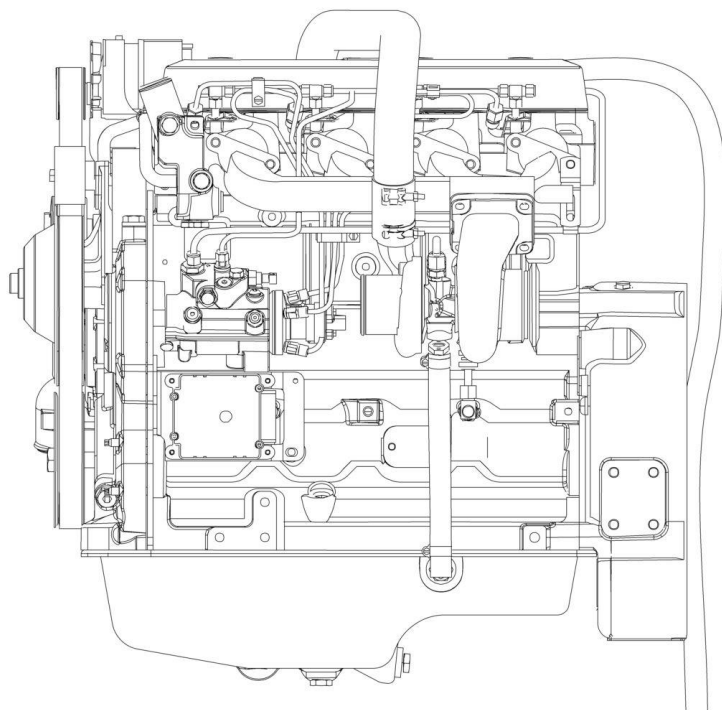
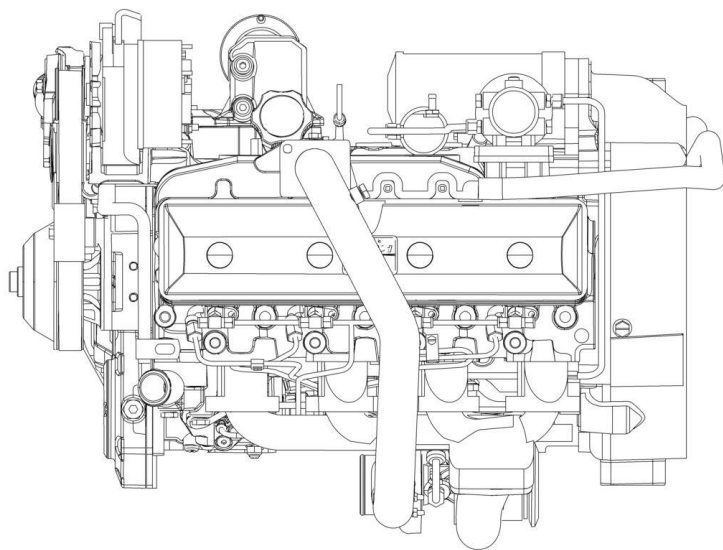
## SECTION 4 - ENGINE AND ATTACHING PARTS

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                                                                                                                                                   | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 404  | 7300344     | 2   | STARTER NEGATIVE BAR                                                                                                                                                                                                                                          |     |
| 405  |             | Ref | POSITIVE BATTERY CABLE, (See ELECTRICAL SECTION for Breakdown)                                                                                                                                                                                                |     |
| 406  |             | Ref | NEGATIVE BATTERY CABLE, (See ELECTRICAL SECTION for Breakdown)                                                                                                                                                                                                |     |
| K1   | 1001128966  | 1   | 250 HOUR FILTER KIT, (includes engine oil filter, primary fuel filter, secondary fuel filter, primary air filter and safety air filter)                                                                                                                       |     |
| K2   | 1001128965  | 1   | 1000 HOUR FILTER KIT, (includes engine oil filter, primary fuel filter, secondary fuel filter, primary air filter, safety air filter, transmission oil filter, hydraulic oil filter, hydraulic pressure filter, hydraulic in-line filter and breather filter) |     |



## SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-4. ENGINE (SN 0160009654 through 0160018506, Including 0160008714)



PV1621

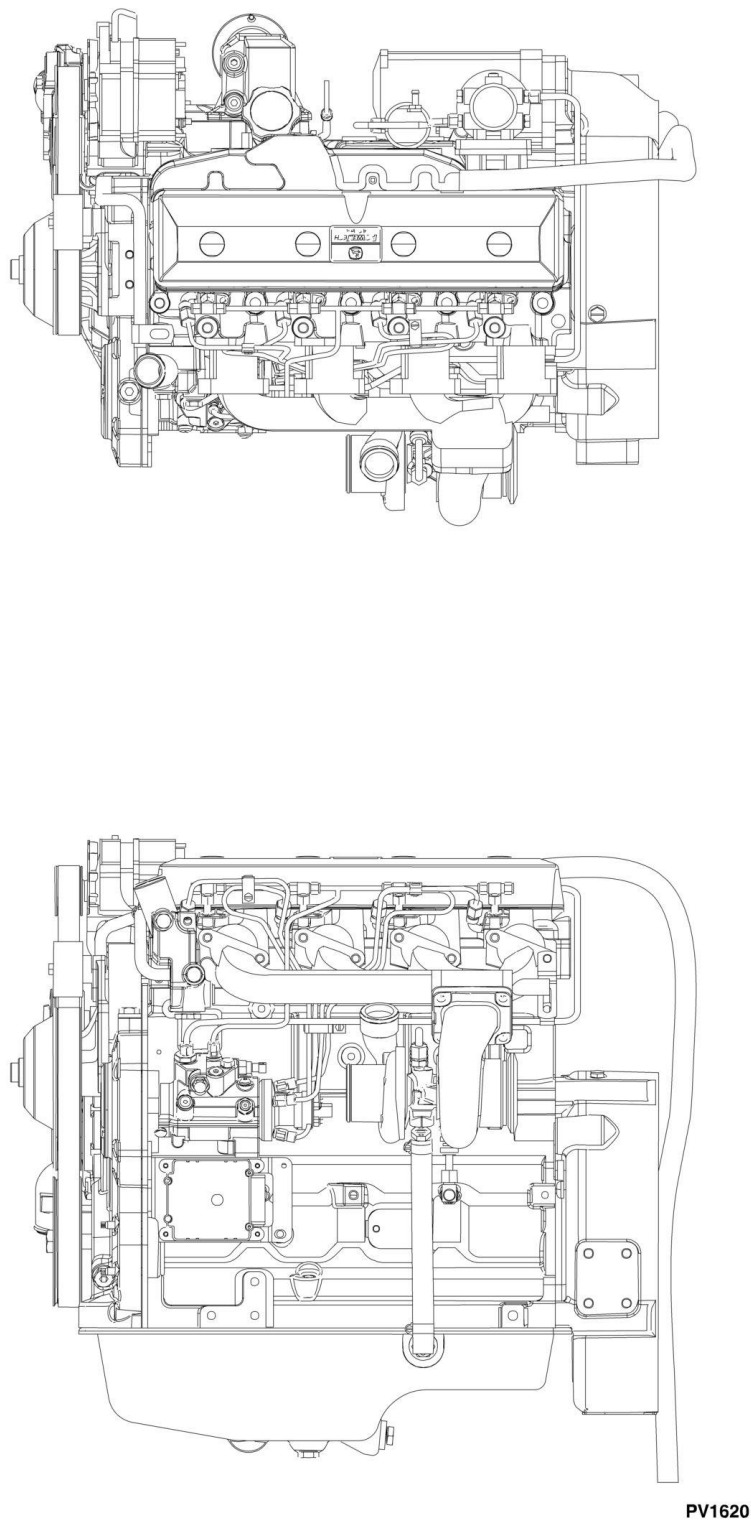
## SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-4. ENGINE (SN 0160009654 through 0160018506, Including 0160008714)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                     | REV |
|------|-------------|-----|-------------------------------------------------|-----|
|      | 2000294     | 1   | JOHN DEERE ENGINE, 115 HP, (includes all items) | C   |
|      | 91404257    | 1   | GASKET, VALVE COVER                             |     |
|      | 91404256    | 4   | PLUG, VALVE COVER                               |     |
|      | 91404259    | 4   | O-RING, VALVE COVER PLUG                        |     |
|      | 91404258    | 1   | FILLER CAP, (includes packing)                  |     |
|      | 91404255    | 1   | PACKING, FILLER CAP                             |     |
|      | 91404253    | 2   | GASKET, OIL FILLER                              |     |
|      | 91404251    | 1   | SEAL, FLYWHEEL HOUSING                          |     |
|      | 7029210     | 1   | FLYWHEEL, (includes ring gear)                  |     |
|      | 80374031    | 1   | RING GEAR                                       |     |
|      | 7029211     | 1   | FUEL INJECTION PUMP                             |     |
|      | 7026918     | 1   | AIR INLET GASKET                                |     |
|      | 91553057    | 1   | AIR INLET GASKET                                |     |
|      | 7026927     | 1   | THERMOSTAT COVER GASKET                         |     |
|      | 91404242    | 1   | OIL PAN GASKET                                  |     |
|      | 7026920     | 1   | THERMOSTAT                                      |     |
|      | 91404086    | 1   | BELT                                            |     |
|      | 80374047    | 1   | IDLER                                           |     |
|      | 91404237    | 1   | SPACER, IDLER                                   |     |
|      | 91404238    | 1   | SLEEVE, IDLER                                   |     |
|      | 91404236    | 1   | SCREW, IDLER                                    |     |
|      | 91404234    | 4   | GASKET, EXHAUST MANIFOLD                        |     |
|      | 7026921     | 1   | STARTER MOTOR                                   |     |
|      | 7026922     | 1   | ALTERNATOR                                      |     |
|      | 80474020    | 1   | PULLEY, ALTERNATOR                              |     |
|      | 91474631    | 1   | STRAP, ALTERNATOR                               |     |
|      | 91534004    | 1   | FUEL FILTER ELEMENT                             |     |
|      | 80374050    | 1   | FUEL FILTER KIT                                 |     |
|      | 80374054    | 1   | FUEL FILTER KIT                                 |     |
|      | 80374154    | 1   | SEAL KIT, FUEL FILTER                           |     |
|      | 91404262    | 1   | FUEL PUMP, (includes o-ring)                    |     |
|      | 7026923     | 1   | O-RING, FUEL PUMP                               |     |
|      | 91404085    | 1   | DIPSTICK                                        |     |
|      | 91554032    | 1   | DIPSTICK TUBE                                   |     |
|      | 80374126    | 1   | WATER PUMP, (includes seal)                     |     |
|      | 91404264    | 1   | SEAL, WATER PUMP                                |     |
|      | 91404232    | 1   | GASKET, WATER PUMP                              |     |
|      | 91404229    | 1   | O-RING, WATER PUMP INLET                        |     |
|      | 7029212     | 1   | TURBOCHARGER                                    |     |
|      | 91404267    | 1   | GASKET, TURBOCHARGER                            |     |
|      | 91404268    | 1   | HOSE ASSY                                       |     |
|      | 91404223    | 1   | PULLEY, BELT TENSIONER, (includes bolt)         |     |
|      | 91404221    | 1   | BOLT, BELT TENSIONER PULLEY                     |     |
|      | 91404222    | 1   | SCREW, BELT TENSIONER PULLEY                    |     |
|      | 91534005    | 1   | OIL FILTER                                      |     |
|      | 80374036    | 1   | GASKET, OIL FILTER HEAD                         |     |
|      | 91474506    | 1   | DRAIN PLUG, OIL FILTER, (includes o-ring)       |     |
|      | 80374020    | 1   | O-RING, DRAIN PLUG                              |     |

**SECTION 4 - ENGINE AND ATTACHING PARTS**

**FIGURE 4-5. ENGINE (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)**



## SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-5. ENGINE (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                  | REV |
|------|-------------|-----|--------------------------------------------------------------|-----|
|      | 2000381     | 1   | JOHN DEERE ENGINE, 115 HP, (includes all items)              | A   |
|      | 91404257    | 1   | GASKET, VALVE COVER                                          |     |
|      | 91404256    | 4   | PLUG, VALVE COVER                                            |     |
|      | 91404259    | 4   | O-RING, VALVE COVER PLUG                                     |     |
|      | 91404258    | 1   | FILLER CAP, (includes packing)                               |     |
|      | 91404255    | 1   | PACKING, FILLER CAP                                          |     |
|      | 91404253    | 2   | GASKET, OIL FILLER                                           |     |
|      | 91404251    | 1   | SEAL, FLYWHEEL HOUSING                                       |     |
|      | 7026915     | 1   | FLYWHEEL, (includes ring gear)                               |     |
|      | 80374031    | 1   | RING GEAR                                                    |     |
|      | 7029211     | 1   | FUEL INJECTION PUMP                                          |     |
|      | 70022289    | 4   | INJECTION NOZZLE                                             |     |
|      | 7026918     | 1   | GASKET, AIR INLET                                            |     |
|      | 91553057    | 1   | GASKET, AIR INLET                                            |     |
|      | 7026927     | 1   | GASKET, THERMOSTAT COVER                                     |     |
|      | 70023458    | 1   | OIL PAN                                                      |     |
|      | 91404242    | 1   | GASKET, OIL PAN                                              |     |
|      | 7026920     | 1   | THERMOSTAT                                                   |     |
|      | 70021491    | 1   | BELT                                                         |     |
|      | 80374047    | 1   | IDLER                                                        |     |
|      | 91404237    | 1   | SPACER, IDLER                                                |     |
|      | 91404238    | 1   | SLEEVE, IDLER                                                |     |
|      | 91404236    | 1   | SCREW, IDLER                                                 |     |
|      | 91404234    | 4   | GASKET, EXHAUST MANIFOLD                                     |     |
|      | 7026921     | 1   | STARTER MOTOR                                                |     |
|      | 7026922     | 1   | ALTERNATOR                                                   |     |
|      | 80474020    | 1   | PULLEY, ALTERNATOR                                           |     |
|      | 91474631    | 1   | STRAP, ALTERNATOR                                            |     |
|      | 91534004    | 1   | FUEL FILTER ELEMENT                                          |     |
|      | 80374050    | 1   | FUEL FILTER KIT                                              |     |
|      | 80374054    | 1   | FUEL FILTER KIT                                              |     |
|      | 80374154    | 1   | FUEL FILTER SEAL KIT                                         |     |
|      | 91404262    | 1   | FUEL PUMP, (includes o-ring)                                 |     |
|      | 7026923     | 1   | O-RING, FUEL PUMP                                            |     |
|      | 91404085    | 1   | DIPSTICK                                                     |     |
|      | 91554032    | 1   | DIPSTICK TUBE                                                |     |
|      | 80374126    | 1   | WATER PUMP, (includes seal)                                  |     |
|      | 91404264    | 1   | SEAL, WATER PUMP                                             |     |
|      | 91404232    | 1   | GASKET, WATER PUMP                                           |     |
|      | 91404229    | 1   | O-RING, WATER PUMP INLET                                     |     |
|      | 70021492    | 1   | TURBOCHARGER                                                 |     |
|      | 91404267    | 1   | GASKET, TURBOCHARGER                                         |     |
|      | 70021493    | 1   | HOSE ASSY, TURBOCHARGER, (requires turbocharger hose o-ring) |     |
|      | 91404266    | 2   | O-RING, TURBOCHARGER HOSE                                    |     |
|      | 80374051    | 1   | OIL LINE, TURBOCHARGER                                       |     |
|      | 91404265    | 1   | GASKET, TURBOCHARGER OIL LINE                                |     |
|      | 70023461    | 4   | SCREW, M10X25, (turbocharger)                                |     |
|      | 91404223    | 1   | PULLEY, BELT TENSIONER, (includes bolt)                      |     |
|      | 91404221    | 1   | BOLT, BELT TENSIONER PULLEY                                  |     |

## SECTION 4 - ENGINE AND ATTACHING PARTS

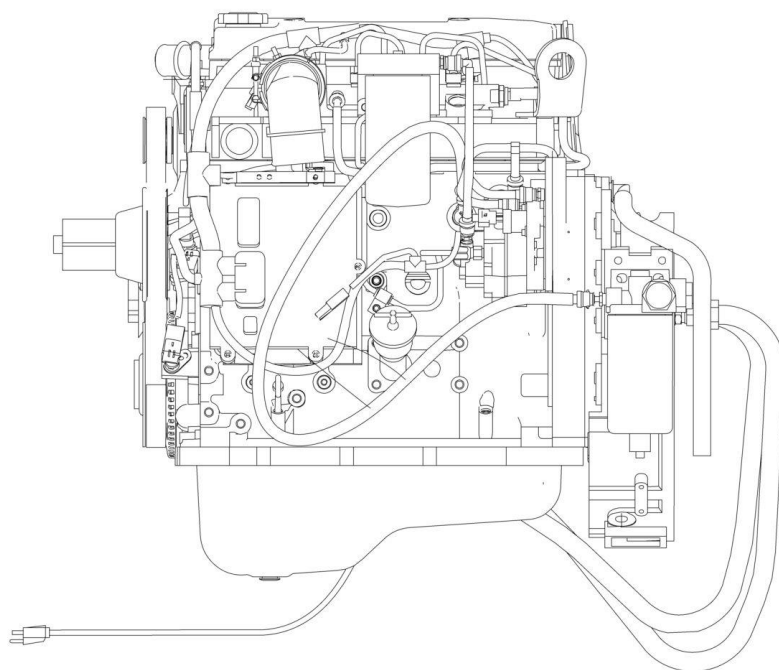
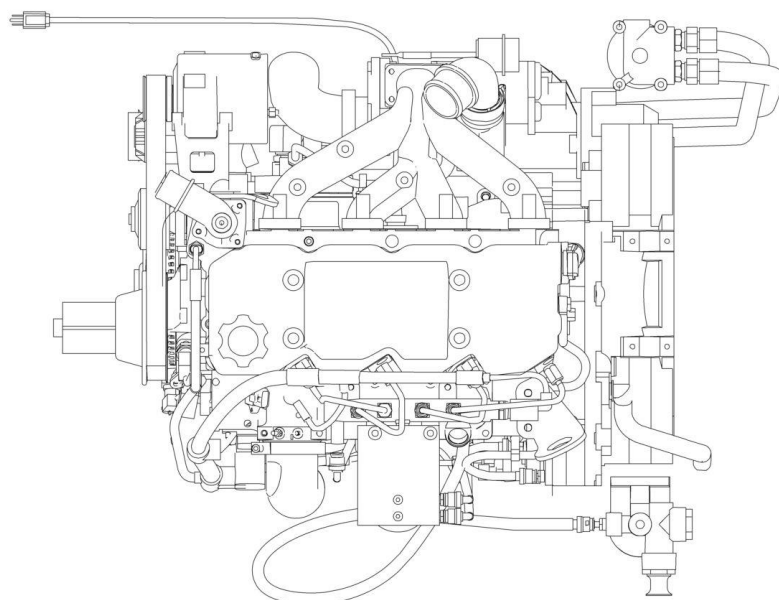
| ITEM | PART NUMBER | QTY | DESCRIPTION                               | REV |
|------|-------------|-----|-------------------------------------------|-----|
|      | 91404222    | 1   | SCREW, BELT TENSIONER PULLEY              |     |
|      | 91534005    | 1   | OIL FILTER                                |     |
|      | 80374036    | 1   | GASKET, OIL FILTER HEAD                   |     |
|      | 91474506    | 1   | DRAIN PLUG, OIL FILTER, (includes o-ring) |     |
|      | 80374020    | 1   | O-RING, DRAIN PLUG                        |     |
|      | 70021899    | 1   | PULLEY, FAN                               |     |
|      | 70021897    | 1   | AIR INTAKE SENSOR                         |     |
|      | 80374019    | 1   | O-RING, (use with air intake sensor)      |     |





## SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-6. ENGINE (SN 0160040413 to Present, Including 0160037824 and 0160038521)



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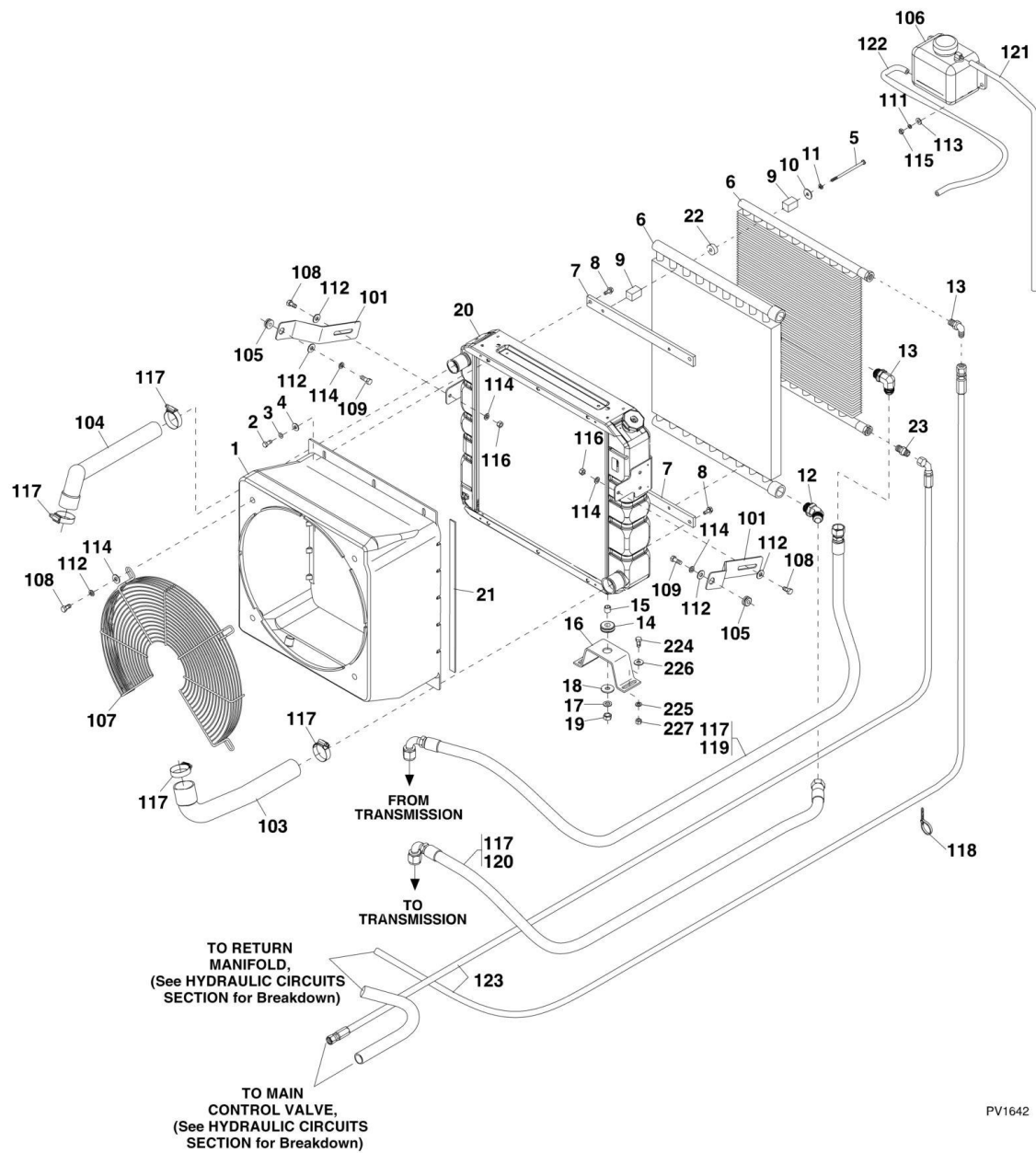
## SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-6. ENGINE (SN 0160040413 to Present, Including 0160037824 and 0160038521)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                                                    | REV |
|------|-------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|      | 1001095708  | 1   | CUMMINS ENGINE, 110 HP QSB4.5, (includes all items ) (SN 0160040413 through 0160044029, Including 0160044121, Excluding 0160043949, 0160044016 and 0160044029) | E   |
|      | 1001137645  | 1   | CUMMINS ENGINE, 110 HP QSB4.5, (includes all items ) (SN 0160044054 through 0160050734, Including 0160043949, 0160044016 and 160044029, Excluding 0160044121)  | B   |
|      | 1001147575  | 1   | CUMMINS ENGINE, 110 HP QSB4.5, (includes all items) (SN 0160050882 to Present)                                                                                 | B   |
|      | 70021793    | 1   | VALVE COVER GASKET                                                                                                                                             |     |
|      | 70022633    | 1   | FUEL PUMP                                                                                                                                                      |     |
|      | 70022634    | 1   | FLYWHEEL                                                                                                                                                       |     |
|      | 70023736    | 1   | RING GEAR, FLYWHEEL                                                                                                                                            |     |
|      | 70021796    | 1   | ENGINE OIL COOLER                                                                                                                                              |     |
|      | 70022635    | 1   | ENGINE OIL COOLER GASKET                                                                                                                                       |     |
|      | 70021798    | 1   | OIL LEVEL DIPSTICK                                                                                                                                             |     |
|      | 70021799    | 1   | DIPSTICK TUBE                                                                                                                                                  |     |
|      | 70021800    | 1   | LUBRICATION OIL PUMP                                                                                                                                           |     |
|      | 70021801    | 1   | OIL PAN                                                                                                                                                        |     |
|      | 70022636    | 1   | OIL PAN GASKET                                                                                                                                                 |     |
|      | 70021803    | 1   | OIL PAN PLUG                                                                                                                                                   |     |
|      | 70022637    | 1   | OIL PAN PLUG GASKET                                                                                                                                            |     |
|      | 70021805    | 1   | WATER PUMP                                                                                                                                                     |     |
|      | 70021806    | 1   | WATER PUMP GASKET                                                                                                                                              |     |
|      | 70021807    | 1   | FAN BELT                                                                                                                                                       |     |
|      | 70022638    | 1   | INJECTOR                                                                                                                                                       |     |
|      | 70021809    | 1   | BELT TENSIONER                                                                                                                                                 |     |
|      | 70022639    | 1   | OIL FILLER CAP                                                                                                                                                 |     |
|      | 70023287    | 1   | ALTERNATOR                                                                                                                                                     |     |
|      | 1322158     | 1   | PULLEY, ALTERNATOR                                                                                                                                             |     |
|      | 70023289    | 1   | ALTERNATOR SUPPORT                                                                                                                                             |     |
|      | 70023288    | 1   | ALTERNATOR BRACE                                                                                                                                               |     |
|      | 70023286    | 1   | MOUNTING SPACER                                                                                                                                                |     |
|      | 70022640    | 1   | STARTER (Prior to SN 0160050882)                                                                                                                               |     |
|      | 1001128594  | 1   | STARTER (SN 0160050882 to Present)                                                                                                                             |     |
|      | 70020356    | 1   | THERMOSTAT                                                                                                                                                     |     |
|      | 70020349    | 1   | PRIMARY FUEL FILTER                                                                                                                                            |     |
|      | 70020348    | 1   | SECONDARY FUEL FILTER                                                                                                                                          |     |
|      | 70022641    | 1   | FUEL FILTER HEAD WITH FITTINGS                                                                                                                                 |     |
|      | 70020358    | 1   | OIL FILTER                                                                                                                                                     |     |
|      | 77384830    | 1   | BAND CLAMP                                                                                                                                                     |     |
|      | 91044340    | 1   | EXHAUST OUTLET                                                                                                                                                 |     |
|      | 70023443    | 1   | ENGINE HEATER, (includes o-ring)                                                                                                                               |     |
|      | 70023444    | 1   | ENGINE HEATER CABLE                                                                                                                                            |     |

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-7. RADIATOR ASSEMBLY (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)



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## SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-7. RADIATOR ASSEMBLY (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)**

| ITEM | PART NUMBER | QTY  | DESCRIPTION                                                                         | REV |
|------|-------------|------|-------------------------------------------------------------------------------------|-----|
|      | 63231       | 1    | RADIATOR ASSY, (includes items 1 thru 23)                                           | G   |
| 1    | 10465024    | 1    | FAN SHROUD                                                                          |     |
| 2    | 10700102    | 6    | HEX HD CAPSCREW, 5/16-18X3/4, GR5                                                   |     |
| 3    | 10701358    | 6    | STAR WASHER, 5/16                                                                   |     |
| 4    | 10701403    | 6    | FLAT WASHER, 5/16                                                                   |     |
| 5    | 0641544     | 4    | HEX HD CAPSCREW, 5/16-18X5-1/2                                                      |     |
| 6    | 8180315     | 2    | TRANSMISSION OIL COOLER                                                             |     |
| 7    | 10136429    | 2    | MOUNTING STRAP                                                                      |     |
| 8    | 10705322    | 4    | FLAT HD CAPSCREW, 5/16-18X3/4, GR5                                                  |     |
| 9    | 10726312    | 8    | RUBBER MOUNTING BLOCK                                                               |     |
| 10   | 10701453    | 4    | FENDER WASHER, 5/16                                                                 |     |
| 11   | 10701309    | 4    | LOCK WASHER, 5/16                                                                   |     |
| 12   | 2220498     | 1    | ELBOW, 45                                                                           |     |
| 13   | 2220578     | 2    | ELBOW, 90                                                                           |     |
| 14   | 10724306    | 2    | RUBBER GROMMET, 3/8                                                                 |     |
| 15   | 10724305    | 2    | BUSHING                                                                             |     |
| 16   | 10265701    | 2    | RADIATOR SUPPORT                                                                    |     |
| 17   | 10701312    | 2    | LOCKWASHER, 1/2                                                                     |     |
| 18   | 10701279    | 2    | FLAT WASHER, 1/2                                                                    |     |
| 19   | 10701510    | 2    | HEX NUT, 1/2-13                                                                     |     |
| 20   | 1101083     | 1    | RADIATOR                                                                            |     |
| 20   | 8180318     | 1    | RADIATOR CAP, 10PSI                                                                 |     |
| 20   | 7029214     | 1    | DRAIN COCK                                                                          |     |
| 21   | 80383368    | 4 ft | GASKET TAPE                                                                         | D   |
| 22   | 10133344    | 4    | SPACER                                                                              |     |
| 23   | 2220451     | 1    | ADAPTER, (includes o-ring)                                                          |     |
|      | 0274432     | Ref  | RADIATOR INSTALLATION, (not available to order, see items 101 thru 123 for service) |     |
| 101  | 0903204     | 2    | RADIATOR SUPPORT, (tank side)                                                       |     |
| 103  | 2720546     | 1    | LOWER RADIATOR HOSE                                                                 |     |
| 104  | 2720547     | 1    | UPPER RADIATOR HOSE                                                                 |     |
| 105  | 10215845    | 2    | RUBBER GROMMET                                                                      |     |
| 106  | 10236491    | 1    | COOLANT RECOVERY TANK                                                               |     |
| 106  | 7026726     | 1    | TANK CAP                                                                            |     |
| 107  | 10238470    | 1    | FAN GUARD                                                                           |     |
| 108  | 10700202    | 6    | HEX HD CAPSCREW, 3/8-16X3/4, GR5                                                    |     |
| 109  | 10700204    | 2    | HEX HD CAPSCREW, 3/8-16X1, GR5                                                      |     |
| 111  | 10701308    | 2    | LOCKWASHER, 1/4                                                                     |     |
| 112  | 10701310    | 8    | LOCKWASHER, 3/8                                                                     |     |
| 113  | 10701402    | 2    | FLAT WASHER, 1/4                                                                    |     |
| 114  | 10701404    | 8    | FLAT WASHER, 3/8                                                                    |     |
| 115  | 10701506    | 2    | HEX NUT, 1/4-20                                                                     |     |
| 116  | 10701508    | 2    | HEX NUT, 3/8-16                                                                     |     |
| 117  | 10710601    | 4    | HOSE CLAMP, 1-3/4X2                                                                 |     |
| 118  | 10720496    | 3    | TIE CLAMP                                                                           |     |
| 119  | 10732420    | 1    | HOSE ASSY                                                                           |     |
| 120  | 10837604    | 1    | HOSE ASSY                                                                           |     |
| 121  | 1016712935  | 1    | HOSE, 5/16X35                                                                       |     |
| 122  | 1016712947  | 1    | HOSE, 5/16X47                                                                       |     |

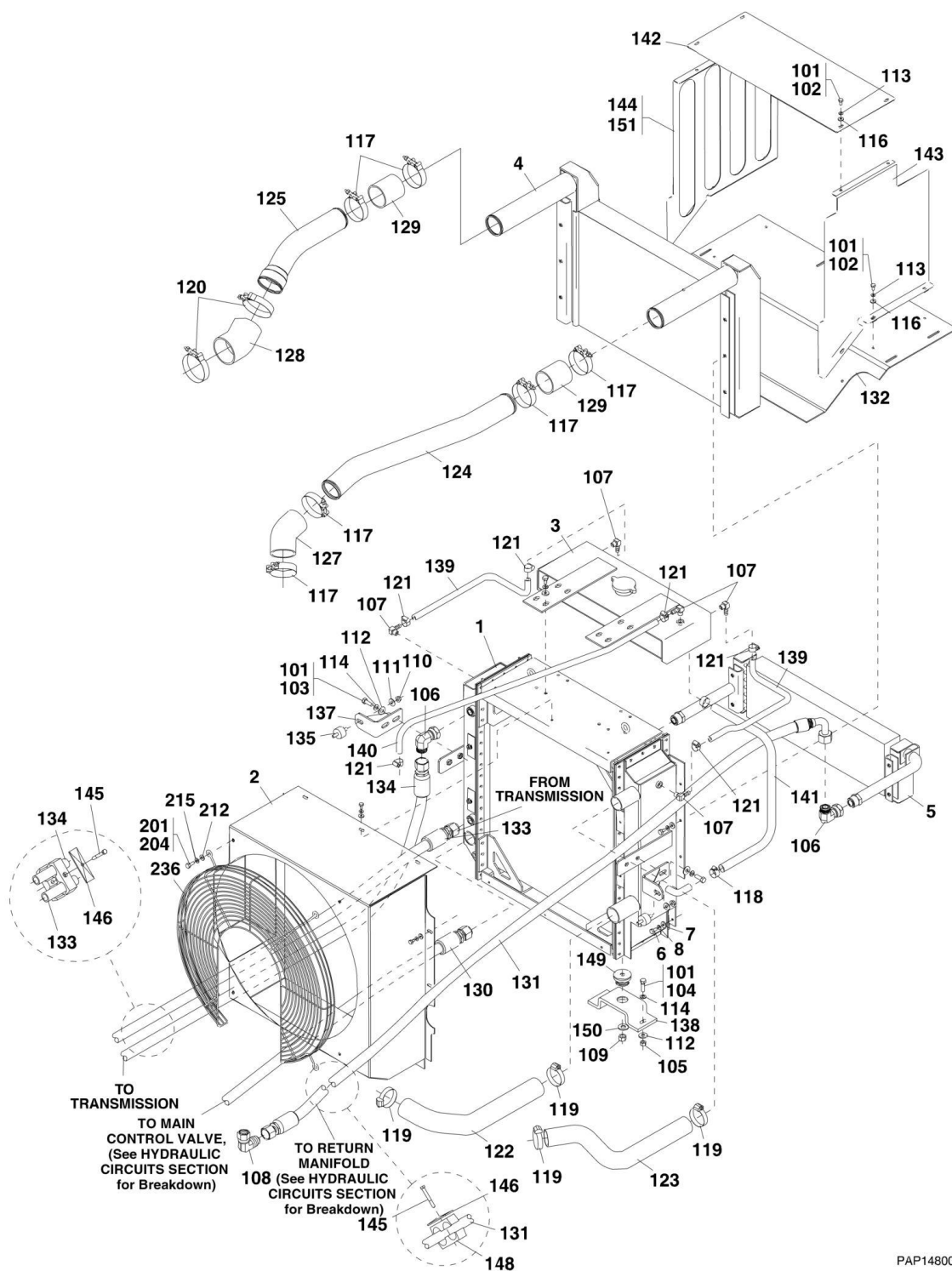
## SECTION 4 - ENGINE AND ATTACHING PARTS

| ITEM | PART NUMBER | QTY | DESCRIPTION                        | REV |
|------|-------------|-----|------------------------------------|-----|
| 123  | 10837649    | 2   | OIL COOLER HOSE                    |     |
| 224  | 10700205    | 4   | HEX HD CAPSCREW, 3/8-16X1-1/4, GR5 |     |
| 225  | 10701310    | 4   | LOCKWASHER, 3/8                    |     |
| 226  | 10701404    | 8   | FLAT WASHER, 3/8                   |     |
| 227  | 10701508    | 4   | HEX NUT, 3/8-16                    |     |



## SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-8. RADIATOR ASSEMBLY (SN 0160040413 to Present, Including 0160037824 and 0160038521)**



PAP14800



## SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-8. RADIATOR ASSEMBLY (SN 0160040413 to Present, Including 0160037824 and 0160038521)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                         | REV |
|------|-------------|-----|-------------------------------------------------------------------------------------|-----|
|      | 1001098968  | 1   | RADIATOR ASSEMBLY, (includes items 1 thru 8)                                        | C   |
| 1    | 70022539    | 1   | RADIATOR                                                                            |     |
| 1    | 70022544    | 1   | RADIATOR CAP, 15PSI                                                                 |     |
| 2    | 70022540    | 1   | SHROUD ASSEMBLY                                                                     |     |
| 3    | 70022541    | 1   | SURGE TANK ASSEMBLY                                                                 |     |
| 4    | 70022542    | 1   | CHARGE AIR COOLER                                                                   |     |
| 5    | 70022543    | 1   | HOT OIL COOLER                                                                      |     |
| 6    | N.S.S.      | 10  | HEX HD BOLT, 5/16-18X3/4, GR5                                                       |     |
| 7    | N.S.S.      | 10  | FLAT WASHER, 5/16                                                                   | H   |
| 8    | N.S.S.      | 10  | LOCKWASHER, 5/16                                                                    |     |
|      | 1001098955  | Ref | RADIATOR INSTALLATION, (not available to order, see items 101 thru 151 for service) |     |
| 101  | 0100011     | AR  | LOCTITE 242                                                                         |     |
| 102  | 0641406     | 15  | HEX HD CAPSCREW, 1/4-20X3/4, GR5                                                    |     |
| 103  | 0641608     | 4   | HEX HD CAPSCREW, 3/8-16X1, GR5                                                      |     |
| 104  | 0641610     | 4   | HEX HD CAPSCREW, 3/8-16X1-1/4, GR5                                                  |     |
| 105  | 10701508    | 4   | HEX NUT, 3/8-16                                                                     |     |
| 106  | 2172112     | 2   | ELBOW, 90, (includes o-ring)                                                        |     |
| 107  | 2180467     | 5   | FITTING, 90                                                                         |     |
| 108  | 2220655     | 1   | ELBOW, 90                                                                           |     |
| 109  | 3271805     | 2   | HEX NUT, 1/2-13, GR8                                                                |     |
| 110  | 3311508     | 2   | HEX NUT, 5/16-18                                                                    |     |
| 111  | 4751500     | 2   | FLAT WASHER, 5/16                                                                   |     |
| 112  | 4751600     | 12  | FLAT WASHER, 3/8                                                                    |     |
| 113  | 4761400     | 15  | LOCKWASHER, 1/4                                                                     |     |
| 114  | 4761600     | 8   | LOCKWASHER, 3/8                                                                     |     |
| 116  | 4891400     | 15  | WASHER, 1/4                                                                         |     |
| 117  | 8405212     | 6   | HEAVY DUTY BAND CLAMP                                                               |     |
| 118  | 8405007     | 2   | GEAR CLAMP                                                                          |     |
| 119  | 8405104     | 4   | GEAR CLAMP                                                                          |     |
| 120  | 8405306     | 2   | T-BOLT CLAMP                                                                        |     |
| 121  | 8410013     | 6   | GEAR CLAMP                                                                          |     |
| 122  | 1001098958  | 1   | LOWER RADIATOR HOSE                                                                 |     |
| 123  | 1001098959  | 1   | UPPER RADIATOR HOSE                                                                 |     |
| 124  | 1001098960  | 1   | TUBE                                                                                |     |
| 125  | 1001098961  | 1   | TUBE                                                                                |     |
| 127  | 1001098971  | 1   | ELBOW, 45                                                                           |     |
| 128  | 1001098973  | 1   | ELBOW, 30                                                                           |     |
| 129  | 1001099251  | 2   | HOSE                                                                                |     |
| 130  | 1001103383  | 1   | HOSE ASSY                                                                           |     |
| 131  | 1001103384  | 1   | HOSE ASSY                                                                           |     |
| 132  | 1001131588  | 1   | INTAKE WELDMENT                                                                     |     |
| 133  | 1001103393  | 1   | HOSE ASSY                                                                           |     |
| 134  | 1001103394  | 1   | HOSE ASSY                                                                           |     |
| 135  | 1001103961  | 2   | ISOLATOR, UPPER                                                                     |     |
| 137  | 1001103991  | 2   | STABILIZER BRACKET                                                                  |     |
| 138  | 1001103992  | 2   | RADIATOR MOUNTING BRACKET                                                           |     |
| 139  | 1001105000  | 2   | RADIATOR HOSE                                                                       |     |
| 140  | 1001105001  | 1   | RADIATOR HOSE                                                                       |     |

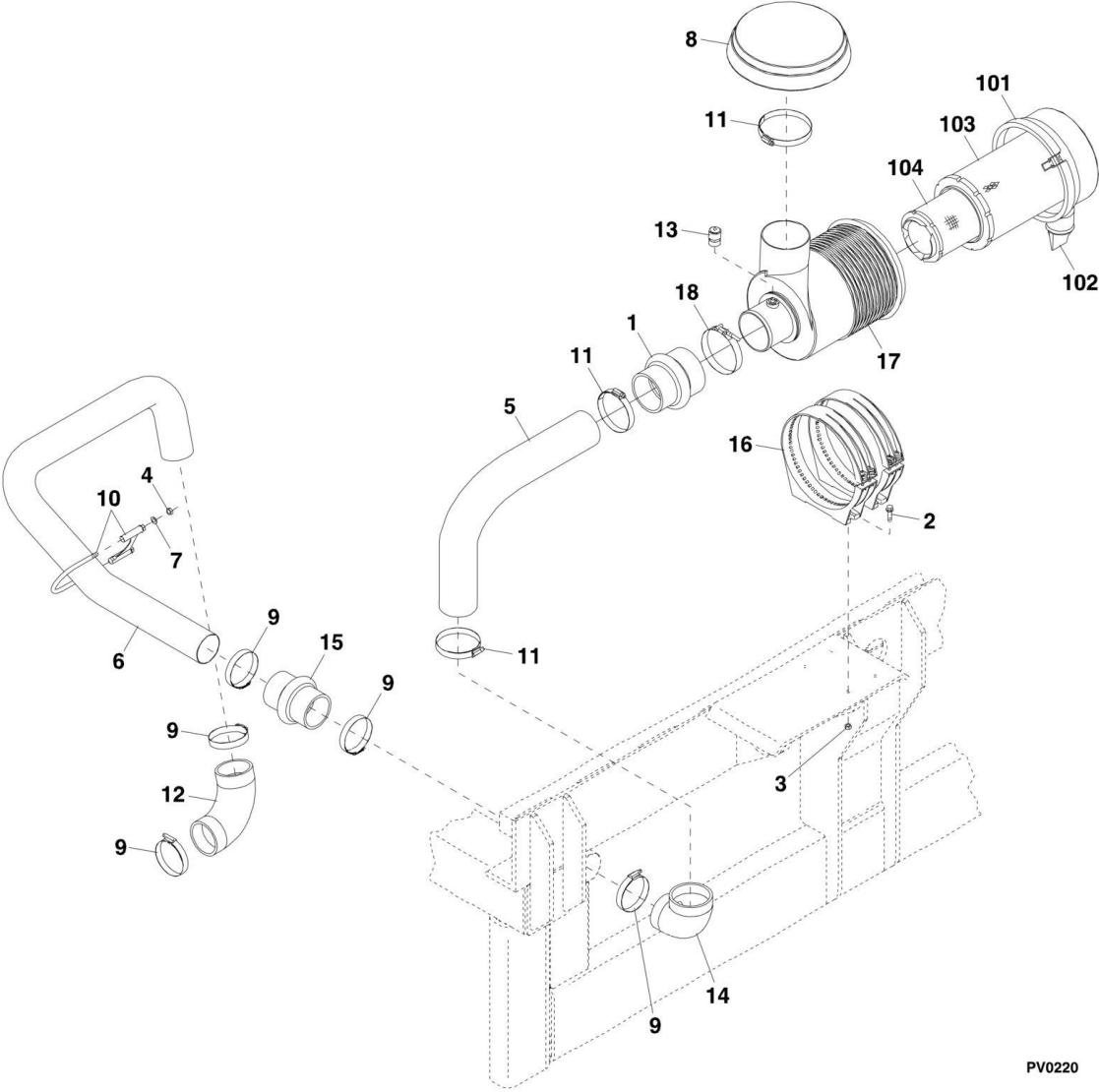
## SECTION 4 - ENGINE AND ATTACHING PARTS

| ITEM | PART NUMBER | QTY | DESCRIPTION                         | REV |
|------|-------------|-----|-------------------------------------|-----|
| 141  | 1001105002  | 1   | RADIATOR HOSE                       |     |
| 142  | 1001113176  | 1   | AIR BAFFLE TOP                      |     |
| 143  | 1001131582  | 1   | LEFT BAFFLE PLATE                   |     |
| 144  | 1001131585  | 1   | RIGHT BAFFLE PLATE                  |     |
| 145  | 8303757     | 2   | HEX HD CAPSCREW, 5/16-18X2-1/2, GR5 |     |
| 146  | 8750025     | 2   | COVER PLATE                         |     |
| 148  | 8750040     | 2   | CLAMP SET                           |     |
| 149  | 1001114803  | 2   | ISOLATER MOUNT                      |     |
| 150  | 4740274     | 4   | WASHER                              |     |
| 151  | 90206196    | AR  | PVC VINYL EDGE TRIM                 |     |
| 201  | 0100011     | AR  | LOCTITE 242                         |     |
| 204  | 0641506     | 4   | HEX HD CAPSCREW, 5/16-18X3/4, GR5   |     |
| 212  | 4711500     | 4   | FLAT WASHER, 5/16                   |     |
| 215  | 4761500     | 4   | LOCKWASHER, 5/16                    |     |
| 236  | 1001098963  | 1   | FAN GUARD                           |     |



**SECTION 4 - ENGINE AND ATTACHING PARTS**

**FIGURE 4-9. AIR CLEANER INSTALLATION (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)**



PV0220

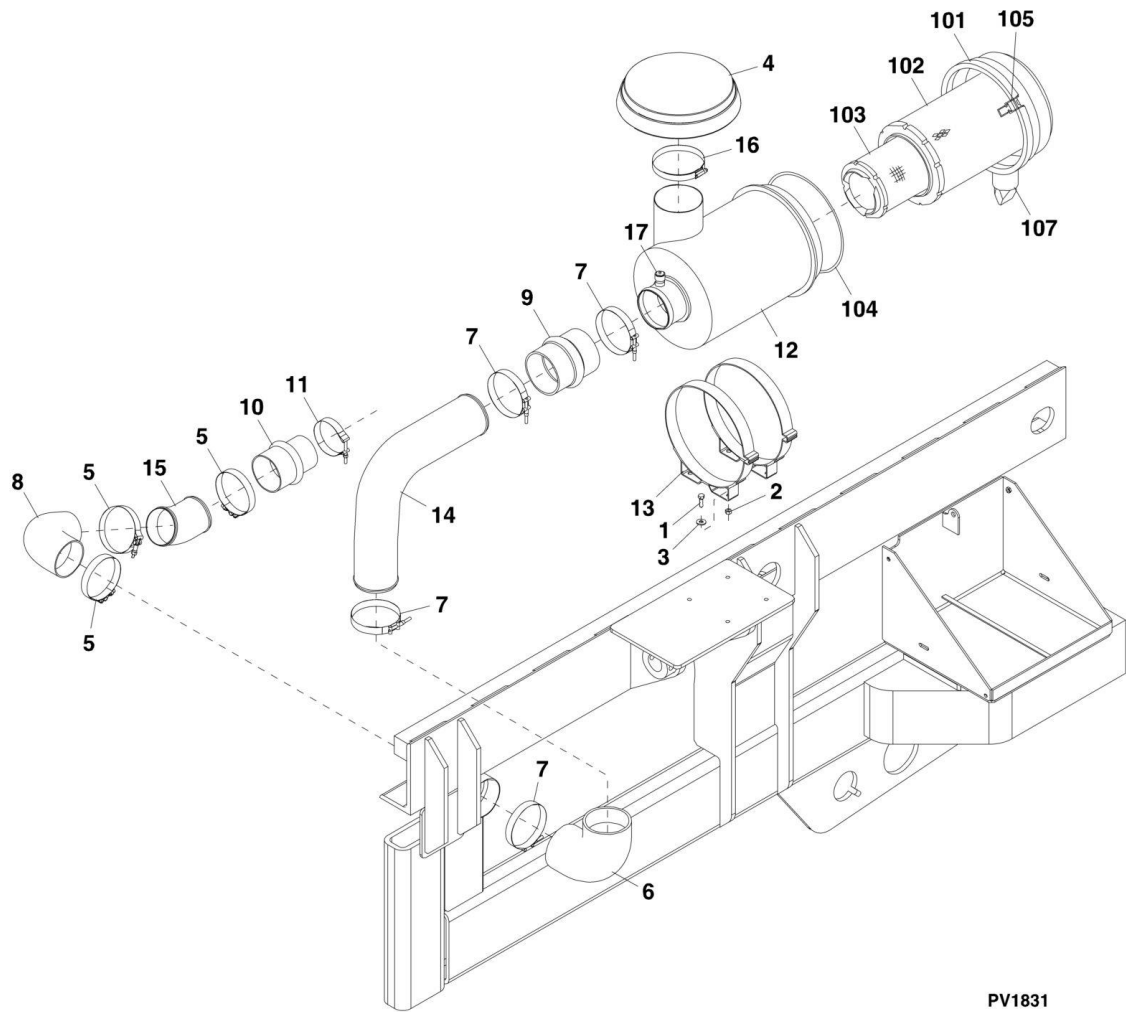
## SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-9. AIR CLEANER INSTALLATION (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                         | REV |
|------|-------------|-----|-------------------------------------------------------------------------------------|-----|
|      | 0274409     | Ref | AIR CLEANER INSTALLATION, (not available to order, see items 1 thru 18 for service) | E   |
| 1    | 0080269     | 1   | RUBBER REDUCER HUMP                                                                 |     |
| 2    | 0811510     | 4   | SCREW, 5/16-18X1-1/4                                                                |     |
| 3    | 3271505     | 4   | HEX LOCKNUT, 5/16-18                                                                |     |
| 4    | 3311602     | 2   | HEX JAM NUT, 3/8-16                                                                 |     |
| 5    | 4569244     | 1   | INTAKE TUBE, (air cleaner to bulkhead)                                              |     |
| 6    | 4569245     | 1   | INTAKE TUBE, (bulkhead to engine)                                                   |     |
| 7    | 4791600     | 2   | STAR WASHER, 3/8                                                                    |     |
| 8    | 8273257     | 1   | AIR INLET HOOD                                                                      |     |
| 9    | 10710553    | 5   | HOSE CLAMP                                                                          |     |
| 10   | 10717169    | 1   | MUFFLER CLAMP, 3IN                                                                  |     |
| 11   | 10719267    | 3   | HOSE CLAMP                                                                          |     |
| 12   | 91083128    | 1   | RUBBER ELBOW, 90                                                                    |     |
| 13   | 77383154    | 1   | SERVICE INDICATOR                                                                   |     |
| 14   | 91083129    | 1   | REDUCER ELBOW                                                                       |     |
| 15   | 91403244    | 1   | RUBBER HUMP, STRAIGHT                                                               |     |
| 16   | 10268516    | 2   | AIR CLEANER MOUNTING BAND                                                           |     |
| 17   | 8273029     | 1   | AIR CLEANER, 9IN, (includes items 101 thru 104)                                     | B   |
| 18   | 77383790    | 1   | BAND CLAMP                                                                          |     |
| 101  | 91364023    | 1   | COVER ASSY                                                                          |     |
| 102  | 80373094    | 1   | VACTUATOR                                                                           |     |
| 103  | 1101312     | 1   | MAIN ELEMENT, (outer)                                                               |     |
| 104  | 1101313     | 1   | SAFETY ELEMENT, (inner)                                                             |     |

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-10. AIR CLEANER INSTALLATION (SN 0160040413 to Present, Including 0160037824 and 0160038521)



PV1831

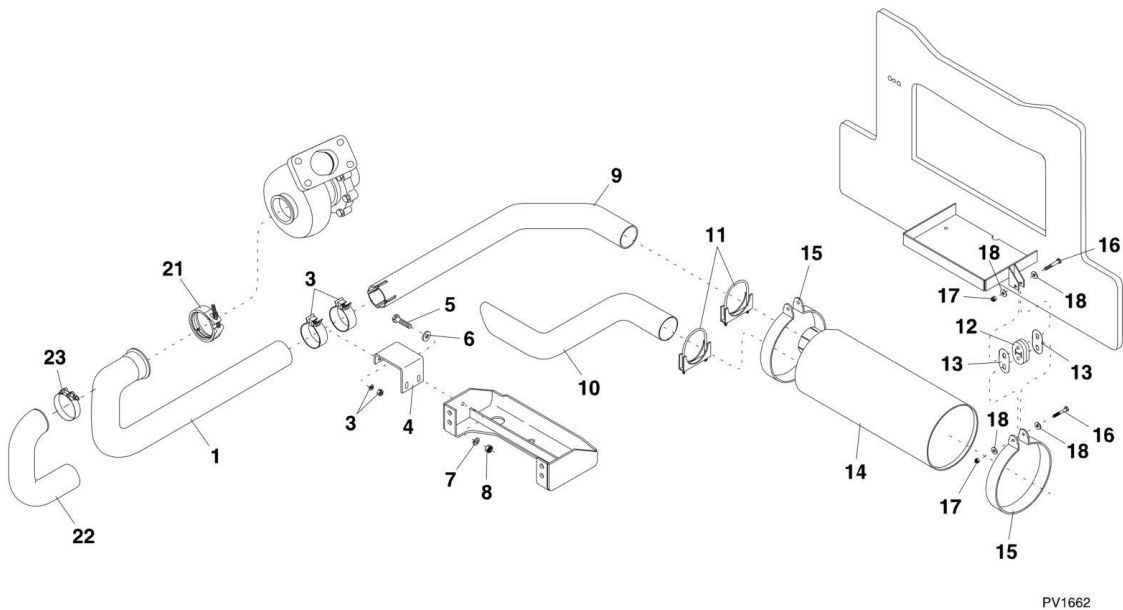
## SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-10. AIR CLEANER INSTALLATION (SN 0160040413 to Present, Including 0160037824 and 0160038521)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                              | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------|-----|
|      | 1001096080  | Ref | 10IN AIR CLEANER INSTALLATION, (not available to order, see items 1 thru 17 for service) | D   |
| 1    | 0641508     | 4   | HEX HD CAPSCREW, 5/16-18X1, GR5                                                          |     |
| 2    | 3271505     | 4   | HEX LOCKNUT, 5/16-18                                                                     |     |
| 3    | 4751500     | 4   | WIDE WASHER, 5/16                                                                        |     |
| 4    | 8273257     | 1   | AIR INLET HOOD                                                                           |     |
| 5    | 8405307     | 3   | T-BOLT CLAMP                                                                             |     |
| 6    | 09523572    | 1   | AIR INTAKE FITTING, 90                                                                   |     |
| 7    | 77383790    | 4   | HEAVY DUTY BAND CLAMP                                                                    |     |
| 8    | 80293007    | 1   | ELBOW, 90                                                                                |     |
| 9    | 80973107    | 1   | STRAIGHT HUMP COUPLING                                                                   |     |
| 10   | 91403239    | 1   | HOSE HUMP REDUCER                                                                        |     |
| 11   | 8405305     | 1   | BAND CLAMP                                                                               |     |
| 12   | 1001091068  | 1   | AIR CLEANER ASSY, 10IN, (includes items 101 thru 107)                                    | A   |
| 13   | 1001091069  | 2   | AIR CLEANER MOUNTING BAND                                                                |     |
| 14   | 1001096081  | 1   | AIR INTAKE PIPE                                                                          |     |
| 15   | 1001096082  | 1   | AIR INTAKE PIPE                                                                          |     |
| 16   | 10719267    | 1   | HOSE CLAMP                                                                               |     |
| 17   | 77383154    | 1   | INDICATOR SERVICE                                                                        |     |
| 101  | 80373090    | 1   | DUST CUP COVER                                                                           |     |
| 102  | 80373091    | 1   | PRIMARY FILTER                                                                           |     |
| 103  | 80373092    | 1   | SAFETY FILTER                                                                            |     |
| 104  | 80373093    | 1   | GASKET COVER                                                                             |     |
| 105  | 80373095    | 1   | LATCH                                                                                    |     |
| 107  | 80373094    | 1   | VACUATOR VALVE                                                                           |     |

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-11. EXHAUST INSTALLATION (SN 0160009654 through 0160040407, Excluding 0160037824 and 0160038521)





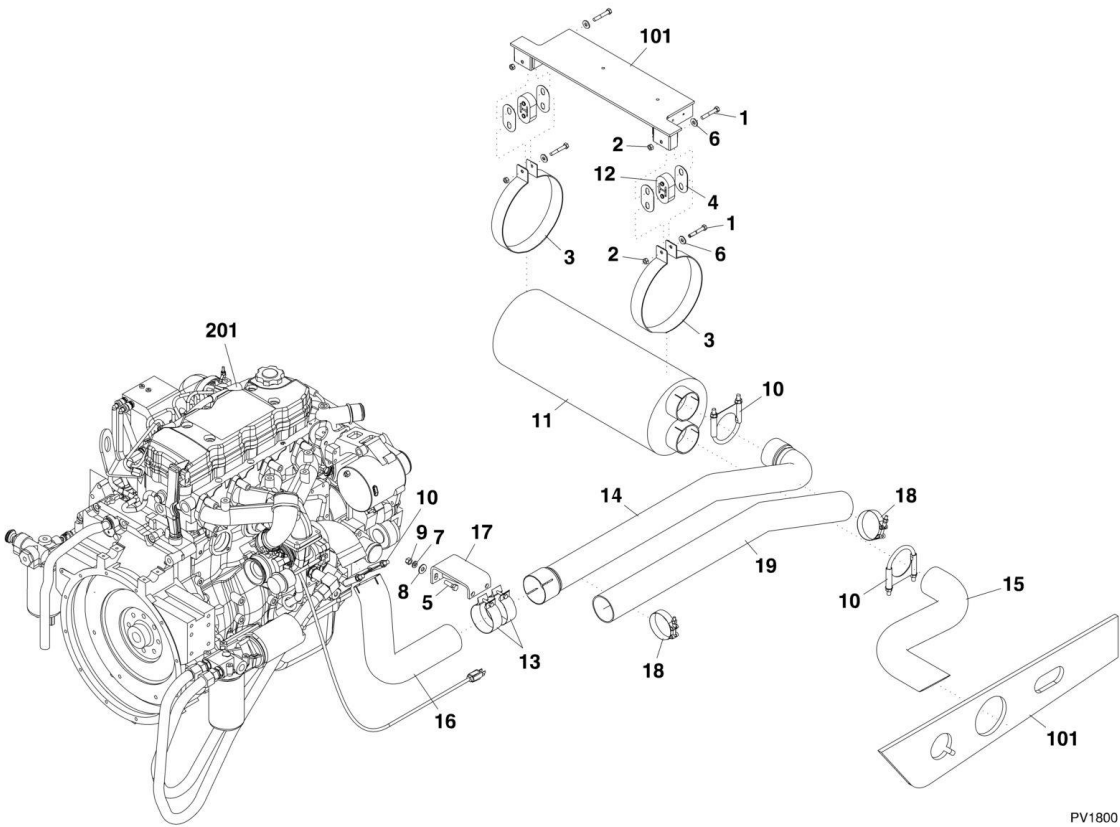
## SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-11. EXHAUST INSTALLATION (SN 0160009654 through 0160040407, Excluding 0160037824 and 0160038521)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                     | REV |
|------|-------------|-----|---------------------------------------------------------------------------------|-----|
|      | 10041066    | Ref | EXHAUST INSTALLATION, (not available to order, see items 1 thru 23 for service) | AA  |
| 1    | 10165161    | 1   | EXHAUST MANIFOLD PIPE                                                           |     |
| 3    | 10837475    | 2   | EXHAUST SEAL CLAMP                                                              |     |
| 4    | 10136405    | 1   | EXHAUST CLAMP BRACKET                                                           |     |
| 5    | 10700205    | 2   | HEX HD CAPSCREW, 3/8-16X1-1/4                                                   |     |
| 6    | 10701404    | 2   | FLAT WASHER, 3/8                                                                |     |
| 7    | 10701310    | 2   | LOCKWASHER, 3/8                                                                 |     |
| 8    | 10701508    | 2   | HEX NUT, 3/8-16                                                                 |     |
| 9    | 10136402    | 1   | EXHAUST PIPE                                                                    |     |
| 10   | 10136412    | 1   | TAIL PIPE                                                                       |     |
| 11   | 10717169    | 2   | MUFFLER CLAMP                                                                   |     |
| 12   | 10732982    | 2   | RUBBER EXHAUST HANGER                                                           |     |
| 13   | 10139922    | 4   | HANGER SUPPORT LINK                                                             |     |
| 14   | 10732697    | 1   | MUFFLER                                                                         |     |
| 15   | 10139876    | 2   | MUFFLER MOUNTING RING, (includes one each of items 16 & 17)                     |     |
| 16   | 10700158    | 4   | HEX HD CAPSCREW, 5/16-24X2                                                      |     |
| 17   | 10701680    | 4   | HEX LOCKNUT, 5/16-24                                                            |     |
| 18   | 10701276    | 8   | FLAT WASHER, 5/16                                                               |     |
| 21   | 10837750    | 1   | EXHAUST PIPE CLAMP                                                              |     |
| 22   | 4100109     | 2   | FIBER GLASS SLEEVE                                                              |     |
| 23   | 90028488    | 2   | T-BOLT CLAMP                                                                    |     |

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-12. EXHAUST INSTALLATION (SN 0160040413 to Present, Including 0160037824 and 0160038521)



## SECTION 4 - ENGINE AND ATTACHING PARTS

**FIGURE 4-12. EXHAUST INSTALLATION (SN 0160040413 to Present, Including 0160037824 and 0160038521)**

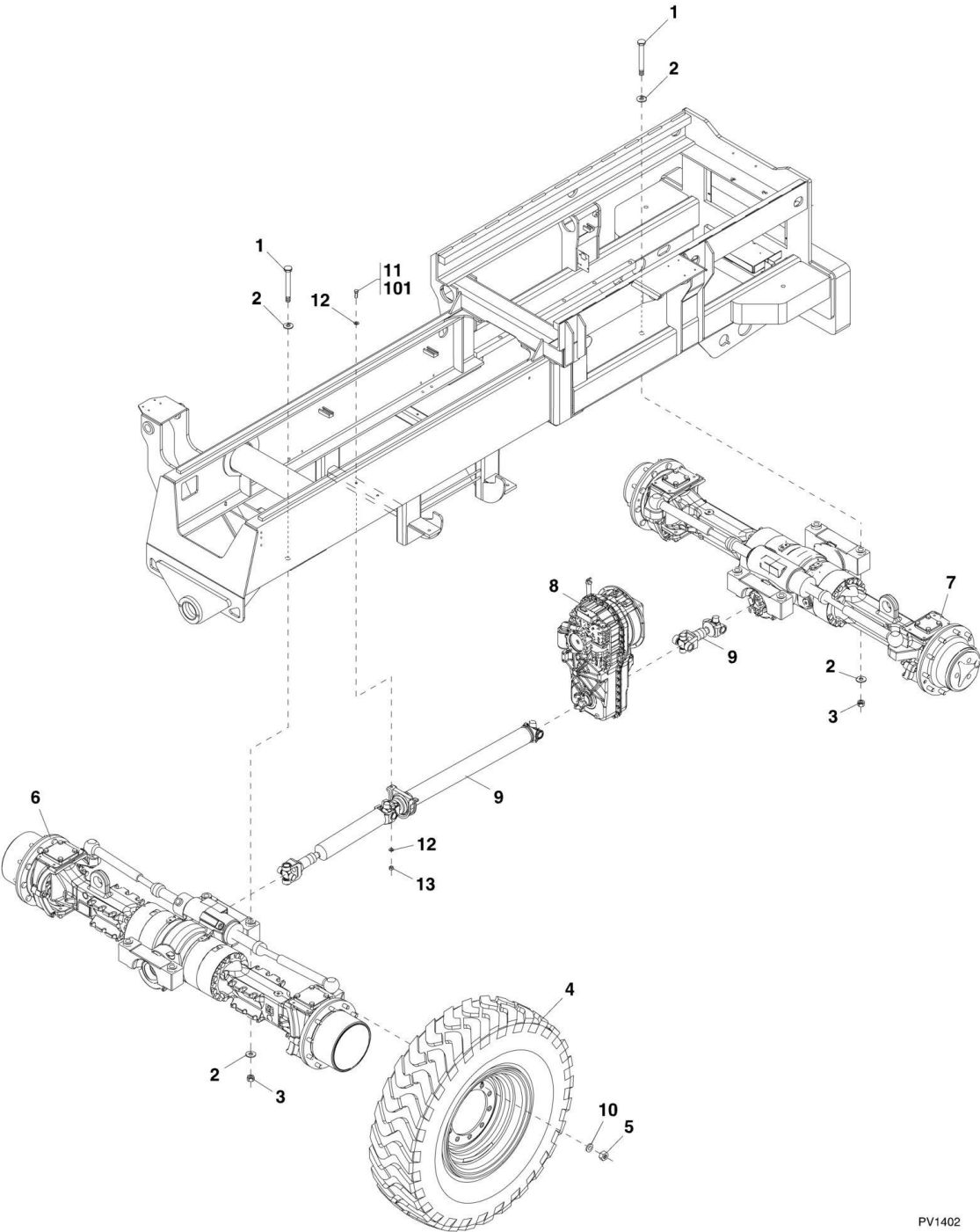
| ITEM | PART NUMBER | QTY   | DESCRIPTION                                                                       | REV |
|------|-------------|-------|-----------------------------------------------------------------------------------|-----|
|      | 1001097143  | Ref   | EXHAUST INSTALLATION, (not available to order, order items 1 thru 19 for service) | D   |
| 1    | 0651516     | 4     | HEX HD CAPSCREW, 5/16-24X2, GR5                                                   |     |
| 2    | 3281505     | 4     | HEX LOCKNUT, 5/16-24                                                              |     |
| 3    | 10139876    | 2     | MOUNTING RING                                                                     |     |
| 4    | 10139922    | 4     | EXHAUST HANGER LINK                                                               |     |
| 5    | 0641610     | 2     | HEX HD CAPSCREW, 3/8-16X1-1/4, GR5                                                |     |
| 6    | 10701276    | 4     | HARDENED WASHER, 5/16                                                             |     |
| 7    | 4761600     | 2     | LOCK WASHER, 3/8                                                                  |     |
| 8    | 4751600     | 2     | FLAT WASHER, 3/8                                                                  |     |
| 9    | 10701508    | 2     | HEX NUT, 3/8-16                                                                   |     |
| 10   | 10717169    | 3     | MUFFLER CLAMP                                                                     |     |
| 11   | 10732697    | 1     | MUFFLER ASSY                                                                      |     |
| 12   | 10732982    | 2     | RUBBER EXHAUST HANGER                                                             |     |
| 13   | 10837475    | 2     | EXHAUST CLAMP                                                                     |     |
| 14   | 1001097145  | 1     | EXHAUST PIPE                                                                      |     |
| 15   | 1001097146  | 1     | TAIL PIPE                                                                         |     |
| 16   | 1001097148  | 1     | EXHAUST MANIFOLD PIPE                                                             |     |
| 17   | 1001097573  | 1     | EXHAUST CLAMP BRACKET                                                             |     |
| 18   | 8405203     | 2     | HEAVY DUTY BAND CLAMP                                                             |     |
| 19   | 1001101193  | 34 in | FIBER GLASS SLEEVE, (sold by the foot)                                            |     |
| 101  |             | Ref   | MAIN FRAME, (See FRAME AND ATTACHING PARTS SECTION for Breakdown)                 |     |
| 201  |             | Ref   | ENGINE ASSEMBLY, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)           |     |



**SECTION 5 - DRIVE TRAIN**

SECTION 5 - DRIVE TRAIN

FIGURE 5-1. DRIVE TRAIN COMPONENTS



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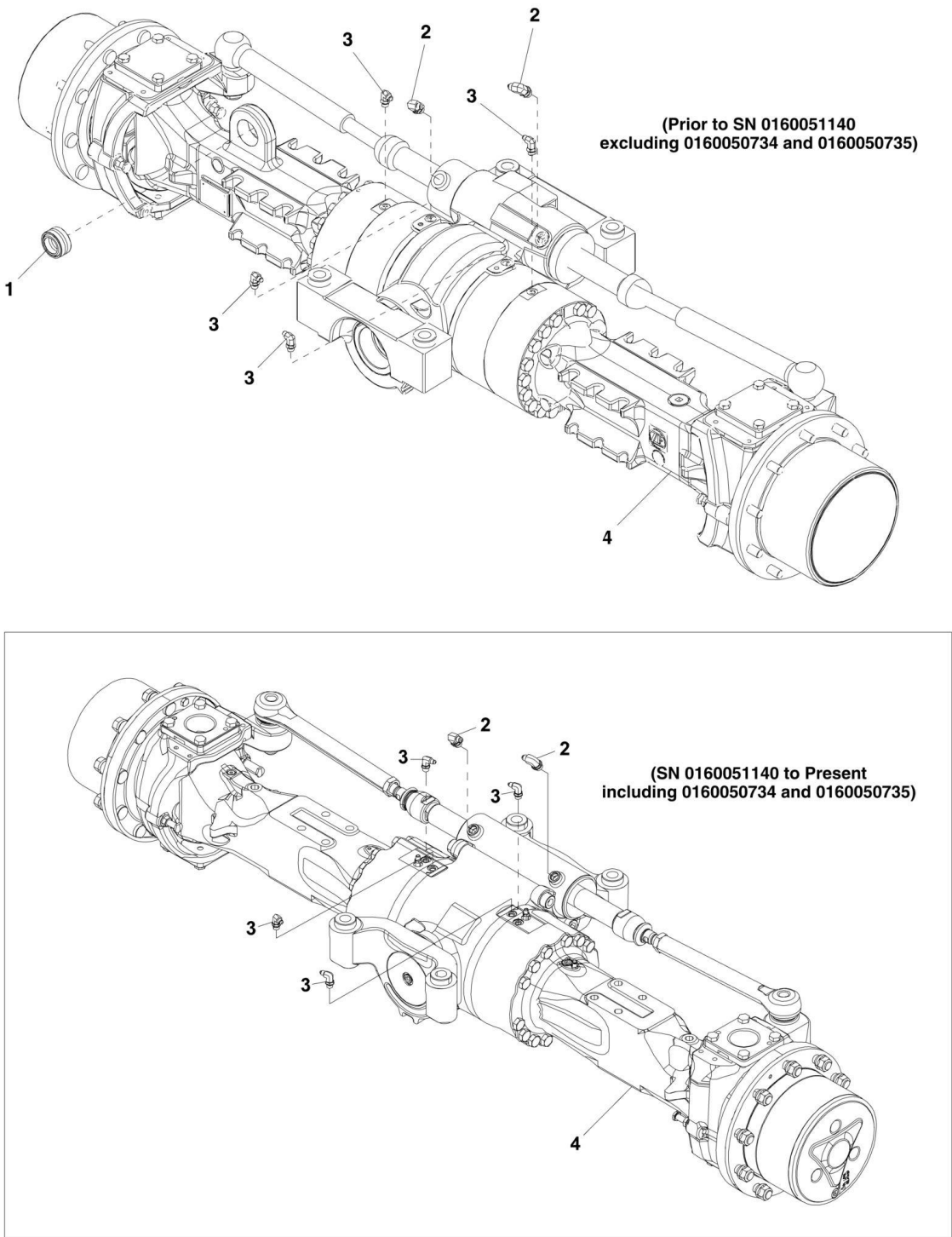
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-1. DRIVE TRAIN COMPONENTS**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                  | REV |
|------|-------------|-----|------------------------------------------------------------------------------|-----|
| 1    | 10700941    | 8   | HEX HD CAPSCREW, 1-8X7, GR8, (torque to 680 lb-ft)                           |     |
| 2    | 10701259    | 16  | FLAT WASHER, 1                                                               |     |
| 3    | 3272601     | 8   | HEX NUT, 1-8                                                                 |     |
| 4    |             | Ref | TIRE AND RIM ASSY, (See TIRES AND RIMS for Breakdown)                        |     |
| 5    | 8786572     | 40  | LUG NUT, (torque to 450-470 lb-ft), (not required with Firestone 400/75-28)  |     |
| 5    | 91403193    | 40  | WHEEL NUT, (torque to 430-470 lb-ft), (if equipped with Firestone 400/75-28) |     |
| 6    |             | Ref | FRONT AXLE ASSY, (See FRONT AXLE ASSEMBLY for Breakdown)                     |     |
| 7    |             | Ref | REAR AXLE ASSY, (See REAR AXLE ASSEMBLY for Breakdown)                       |     |
| 8    |             | Ref | ZF TRANSMISSION, (See REAR AXLE ASSEMBLY for Breakdown)                      |     |
| 9    |             | Ref | DRIVE SHAFTS, (See DRIVE SHAFT for Breakdown)                                |     |
| 10   | 8786573     | 40  | WASHER, (not required with Firestone 400/75-28)                              |     |
| 11   | 0641710     | 2   | HEX HD CAPSCREW, 7/16-14X2, GR5                                              |     |
| 12   | 4711700     | 4   | FLAT WASHER, 7/16                                                            |     |
| 13   | 3311705     | 2   | LOCKNUT, 7/16-14                                                             |     |
| 101  | 0100011     | AR  | LOCTITE 242                                                                  |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-2. FRONT AXLE ASSEMBLY



PAP27920



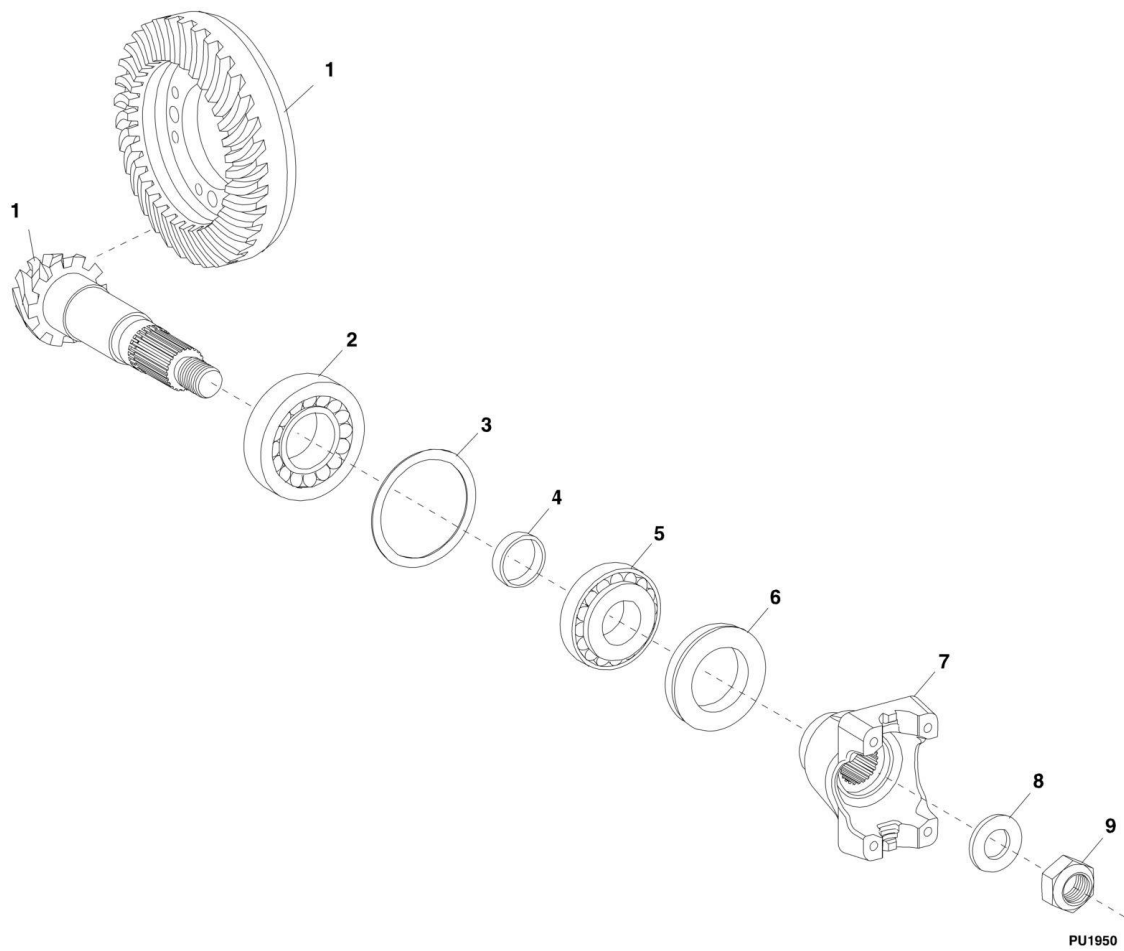
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-2. FRONT AXLE ASSEMBLY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                   | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------------------|-----|
|      | 0280191     | 1   | FRONT AXLE ASSY, (includes all items ) <b>(Prior to SN 0160051140, Excluding 0160050734 and 0160050735)</b>   | D   |
|      | 1001107570  | 1   | FRONT AXLE ASSY, (includes all items ) <b>(SN 0160051140 to Present, Including 0160050734 and 0160050735)</b> | A   |
| 1    | 8050001     | 1   | SELF ALIGN BEARING                                                                                            |     |
| 2    | 2220628     | 2   | ELBOW, 90                                                                                                     |     |
| 3    | 2220472     | 4   | ELBOW, 90                                                                                                     |     |
| 4    | 0280189     | 1   | FRONT AXLE <b>(Prior to SN 0160051140, Excluding 0160050734 and 0160050735)</b>                               | F   |
| 4    | 1001107080  | 1   | FRONT AXLE <b>(SN 0160051140 to Present, Including 0160050734 and 0160050735)</b>                             | C   |
| 4    |             | Ref | FRONT AXLE - INPUT, (See FRONT AXLE – INPUT for Breakdown)                                                    | E   |
| 4    |             | Ref | FRONT AXLE - LIMITED SLIP DIFFERENTIAL, (See FRONT AXLE - LIMITED SLIP DIFFERENTIAL for Breakdown)            |     |
| 4    |             | Ref | FRONT AXLE - AXLE CASING, (See FRONT AXLE – CASING for Breakdown)                                             |     |
| 4    |             | Ref | FRONT AXLE - M-DISC BRAKE, (See FRONT AXLE - M-DISC BRAKE for Breakdown)                                      |     |
| 4    |             | Ref | FRONT AXLE - BRAKE, (See FRONT AXLE – BRAKE for Breakdown)                                                    |     |
| 4    |             | Ref | FRONT AXLE - JOINT HOUSING, (See FRONT AXLE - JOINT HOUSING for Breakdown)                                    |     |
| 4    |             | Ref | FRONT AXLE - PLANETARY DRIVE, (See FRONT AXLE - PLANETARY DRIVE for Breakdown)                                |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-3. FRONT AXLE - INPUT



## SECTION 5 - DRIVE TRAIN

**FIGURE 5-3. FRONT AXLE - INPUT**

| ITEM | PART NUMBER | QTY | DESCRIPTION    | REV |
|------|-------------|-----|----------------|-----|
| 1    | 7028967     | 1   | GEAR SET BEVEL |     |
| 2    | 1321213     | 1   | ROLLER BEARING |     |
| 3    | 1321187     | AR  | SHIM, 1.5mm    |     |
| 3    | 8035871     | AR  | SHIM, 0.9mm    |     |
| 3    | 8035872     | AR  | SHIM, 0.95mm   |     |
| 3    | 8035873     | AR  | SHIM, 1.0mm    |     |
| 3    | 1321186     | AR  | SHIM, 1.05mm   |     |
| 3    | 8035874     | AR  | SHIM, 1.1mm    |     |
| 3    | 8035875     | AR  | SHIM, 1.15mm   |     |
| 3    | 1321185     | AR  | SHIM, 1.2mm    |     |
| 3    | 8035876     | AR  | SHIM, 1.25mm   |     |
| 3    | 8035877     | AR  | SHIM, 1.3mm    |     |
| 3    | 1321189     | AR  | SHIM, 0.7mm    |     |
| 3    | 8035878     | AR  | SHIM, 0.75mm   |     |
| 3    | 8035879     | AR  | SHIM, 0.8mm    |     |
| 3    | 1321190     | AR  | SHIM, 0.85mm   |     |
| 4    | 8035881     | AR  | RING, 11.30mm  |     |
| 4    | 8035882     | AR  | RING, 11.33mm  |     |
| 4    | 8035883     | AR  | RING, 11.36mm  |     |
| 4    | 8035884     | AR  | RING, 11.39mm  |     |
| 4    | 8035885     | AR  | RING, 11.42mm  |     |
| 4    | 8035886     | AR  | RING, 11.45mm  |     |
| 4    | 1321196     | AR  | RING, 11.48mm  |     |
| 4    | 8035887     | AR  | RING, 11.51mm  |     |
| 4    | 8035888     | AR  | RING, 11.54mm  |     |
| 4    | 8035889     | AR  | RING, 11.57mm  |     |
| 4    | 8035890     | AR  | RING, 11.60mm  |     |
| 4    | 8035891     | AR  | RING, 11.63mm  |     |
| 4    | 1321197     | AR  | RING, 11.66mm  |     |
| 4    | 8035892     | AR  | RING, 11.69mm  |     |
| 4    | 8035893     | AR  | RING, 11.72mm  |     |
| 4    | 8035894     | AR  | RING, 11.75mm  |     |
| 4    | 8035895     | AR  | RING, 11.78mm  |     |
| 4    | 8035896     | AR  | RING, 11.81mm  |     |
| 4    | 1321198     | AR  | RING, 11.84mm  |     |
| 4    | 8035897     | AR  | RING, 11.87mm  |     |
| 4    | 8035898     | AR  | RING, 11.90mm  |     |
| 4    | 8035899     | AR  | RING, 11.93mm  |     |
| 4    | 8035900     | AR  | RING, 11.96mm  |     |
| 4    | 8035901     | AR  | RING, 11.99mm  |     |
| 4    | 8035902     | AR  | RING, 12.02mm  |     |
| 4    | 1321199     | AR  | RING, 12.05mm  |     |
| 4    | 8035903     | AR  | RING, 12.08mm  |     |
| 4    | 8035904     | AR  | RING, 12.11mm  |     |
| 4    | 8035905     | AR  | RING, 12.14mm  |     |
| 4    | 8035906     | AR  | RING, 12.17mm  |     |
| 4    | 8036841     | AR  | RING, 12.20mm  |     |
| 4    | 8035907     | AR  | RING, 12.23mm  |     |
| 4    | 8035908     | AR  | RING, 12.26mm  |     |
| 4    | 8035909     | AR  | RING, 12.29mm  |     |

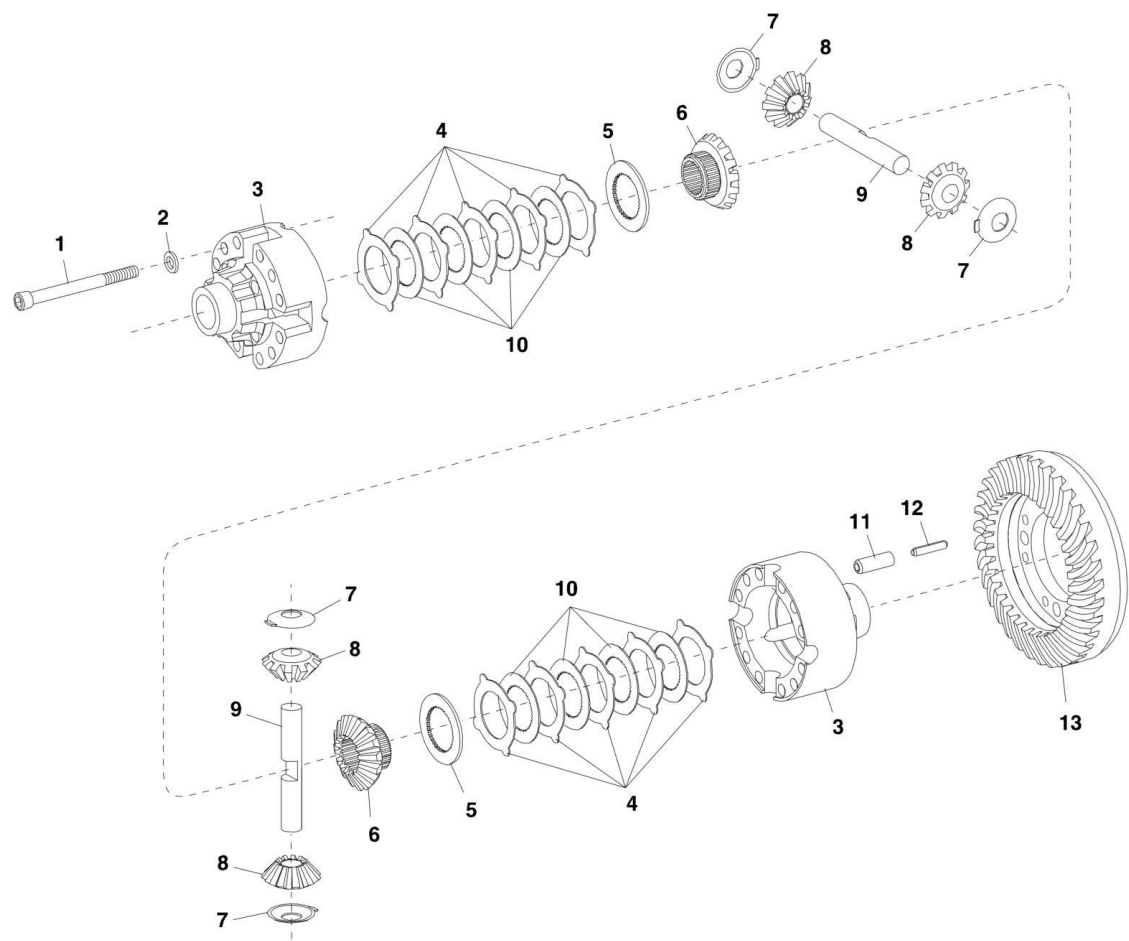
## SECTION 5 - DRIVE TRAIN

| ITEM | PART NUMBER | QTY | DESCRIPTION      | REV |
|------|-------------|-----|------------------|-----|
| 4    | 8035910     | AR  | RING, 12.32mm    |     |
| 4    | 8035911     | AR  | RING, 12.35mm    |     |
| 4    | 1321201     | AR  | RING, 12.38mm    |     |
| 4    | 8035912     | AR  | RING, 11.27mm    |     |
| 4    | 1321204     | AR  | RING, 11.24mm    |     |
| 4    | 8035913     | AR  | RING, 11.21mm    |     |
| 4    | 8035914     | AR  | RING, 11.18mm    |     |
| 4    | 8035915     | AR  | RING, 11.15mm    |     |
| 4    | 8035916     | AR  | RING, 11.12mm    |     |
| 4    | 1321203     | AR  | RING, 11.09mm    |     |
| 4    | 8035917     | AR  | RING, 11.06mm    |     |
| 4    | 8035918     | AR  | RING, 11.03mm    |     |
| 4    | 8035919     | AR  | RING, 11.00mm    |     |
| 4    | 8035920     | AR  | RING, 10.97mm    |     |
| 4    | 1321202     | AR  | RING, 10.94mm    |     |
| 5    | 1321212     | 1   | ROLLER BEARING   |     |
| 6    | 1321210     | 1   | COMBINATION RING |     |
| 7    | 1321248     | 1   | END YOKE         |     |
| 8    | 1321194     | 1   | WASHER           |     |
| 9    | 8035921     | 1   | HEXAGON NUT      |     |



SECTION 5 - DRIVE TRAIN

FIGURE 5-4. FRONT AXLE - LIMITED SLIP DIFFERENTIAL



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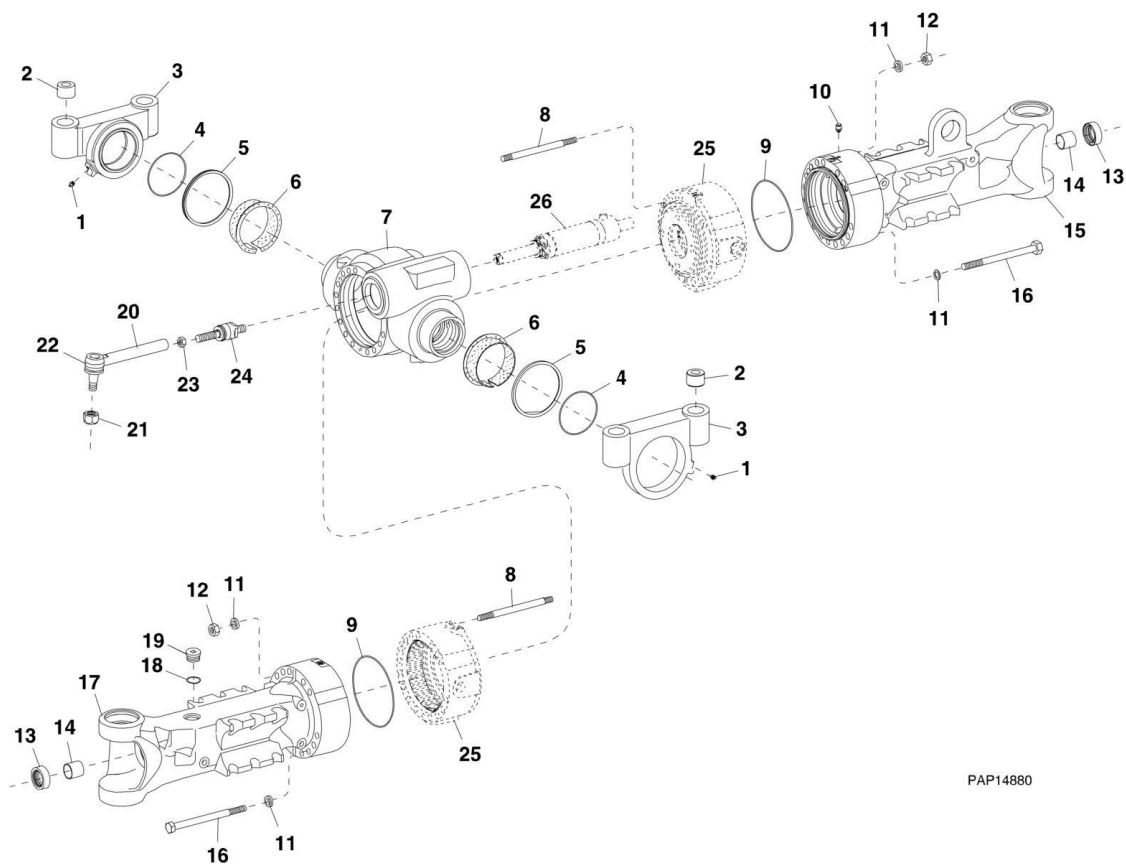
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-4. FRONT AXLE - LIMITED SLIP DIFFERENTIAL**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                | REV |
|------|-------------|-----|------------------------------------------------------------|-----|
|      | 7027230     | 1   | LIMITED SLIP DIFFERENTIAL ASSY, (includes items 1 thru 12) |     |
| 1    | 8035923     | 12  | CAPSCREW                                                   |     |
| 2    | 1321184     | 12  | WASHER                                                     |     |
| 3    | 1321215     | 1   | DIFFERENTIAL CASE                                          |     |
| 4    | 1321219     | 10  | O. CLUTCH DISC, 1.2mm                                      |     |
| 4    | 1321220     | 10  | O. CLUTCH DISC, 1.3mm                                      |     |
| 4    | 1321221     | 10  | O. CLUTCH DISC, 1.4mm                                      |     |
| 5    | 1321217     | 2   | PRESSURE DISC                                              |     |
| 6    | 7027225     | 2   | AXLE BEVEL GEAR                                            |     |
| 7    | 1319415     | 4   | THRUST WASHER                                              |     |
| 8    | 8036753     | 4   | DIFFERENTIAL BEVEL GEAR                                    |     |
| 9    | 1321225     | 2   | DIFFERENTIAL AXLE                                          |     |
| 10   | 1321218     | 8   | I. CLUTCH DISC                                             |     |
| 11   | 1321153     | 4   | SLOTTED PIN                                                |     |
| 12   | 1321154     | 4   | SLOTTED PIN                                                |     |
| 13   |             | Ref | GEAR SET BEVEL, (See FRONT AXLE – INPUT for Breakdown)     |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-5. FRONT AXLE - AXLE CASING



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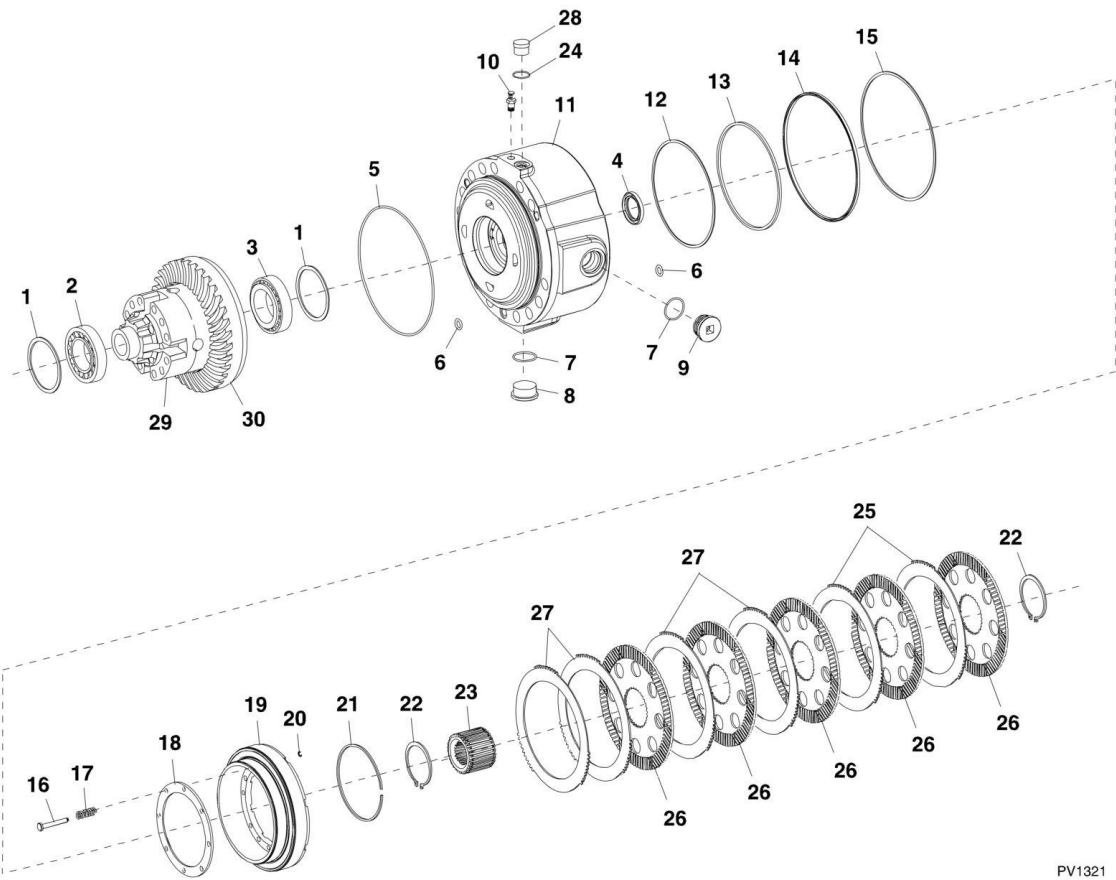
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-5. FRONT AXLE - AXLE CASING**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                               | REV |
|------|-------------|-----|---------------------------------------------------------------------------|-----|
| 1    | 1319423     | 2   | GREASE FITTING                                                            |     |
| 2    | 1319441     | 4   | CENTERING BUSHING                                                         |     |
| 3    | 8035933     | 2   | BRACKET                                                                   |     |
| 4    | 1319439     | 2   | O-RING                                                                    |     |
| 5    | 1319440     | 2   | V-RING                                                                    |     |
| 6    | 8036419     | 2   | FLANGE BUSHING                                                            |     |
| 7    | 7027227     | NLA | AXLE DRIVE HOUSING, (no longer available, order 70021111 for replacement) |     |
| 7    | 70021111    | 1   | AXLE DRIVE HOUSING                                                        |     |
| 8    | 8036313     | 6   | STUD                                                                      |     |
| 9    | 1319425     | 2   | O-RING                                                                    |     |
| 10   | 1319436     | 1   | VENT VALVE                                                                |     |
| 11   | 8036312     | 30  | WASHER, (only used with 7027227 axle drive housing)                       |     |
| 12   | 1319429     | 8   | HEX NUT                                                                   |     |
| 13   | 7027211     | 2   | SHAFT SEAL                                                                |     |
| 14   | 1319433     | 2   | BUSHING                                                                   |     |
| 15   | 8035924     | 1   | RIGHT FRONT AXLE CASING                                                   |     |
| 16   | 8035927     | 30  | HEX SCREW, (used with 7027227 axle drive housing)                         |     |
| 16   | 8035927     | 28  | HEX SCREW, (used with 70021111 axle drive housing)                        |     |
| 17   | 8035925     | 1   | LEFT FRONT AXLE CASING                                                    |     |
| 18   | 8036331     | 1   | O-RING                                                                    |     |
| 19   | 1319506     | 1   | SCREW PLUG                                                                |     |
| 20   | 1321148     | 2   | TRACK ROD, (includes items 21 thru 24)                                    |     |
| 21   | 8036758     | 1   | LOCKING NUT                                                               |     |
| 22   | 8036756     | 1   | BALL JOINT W/PIPE COUPLING                                                |     |
| 23   | 8036759     | 1   | HEX NUT                                                                   |     |
| 24   | 8036757     | 1   | AXIAL JOINT COUPLING                                                      |     |
| 25   |             | Ref | BRAKE HOUSING, (See FRONT AXLE - M-DISC BRAKE for Breakdown)              |     |
| 26   |             | Ref | STEERING CYLINDER, (See FRONT AXLE - PLANETARY DRIVE for Breakdown)       |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-6. FRONT AXLE - M-DISC BRAKE



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## SECTION 5 - DRIVE TRAIN

**FIGURE 5-6. FRONT AXLE - M-DISC BRAKE**

| ITEM | PART NUMBER | QTY | DESCRIPTION    | REV |
|------|-------------|-----|----------------|-----|
| 1    | 1319531     | AR  | SHIM, 0.1mm    |     |
| 1    | 8035945     | AR  | SHIM, 0.15mm   |     |
| 1    | 1319530     | AR  | SHIM, 0.2mm    |     |
| 1    | 8035946     | AR  | SHIM, 0.25mm   |     |
| 1    | 1319529     | AR  | SHIM, 0.3mm    |     |
| 1    | 8035947     | AR  | SHIM, 0.35mm   |     |
| 1    | 8035951     | AR  | SHIM, 0.4mm    |     |
| 1    | 1319543     | AR  | SHIM, 0.45mm   |     |
| 1    | 1319527     | AR  | SHIM, 0.5mm    |     |
| 1    | 1321158     | AR  | SHIM, 0.55mm   |     |
| 1    | 1319526     | AR  | SHIM, 0.6mm    |     |
| 1    | 1319532     | AR  | SHIM, 0.65mm   |     |
| 1    | 1319533     | AR  | SHIM, 0.7mm    |     |
| 1    | 1319534     | AR  | SHIM, 0.75mm   |     |
| 1    | 1319525     | AR  | SHIM, 0.8mm    |     |
| 1    | 1319535     | AR  | SHIM, 0.85mm   |     |
| 1    | 1319536     | AR  | SHIM, 0.9mm    |     |
| 1    | 1319537     | AR  | SHIM, 0.95mm   |     |
| 1    | 1319524     | AR  | SHIM, 1.0mm    |     |
| 1    | 1319545     | AR  | SHIM, 1.05mm   |     |
| 1    | 1319538     | AR  | SHIM, 1.10mm   |     |
| 1    | 1319539     | AR  | SHIM, 1.15mm   |     |
| 1    | 1319523     | AR  | SHIM, 1.20mm   |     |
| 1    | 1319540     | AR  | SHIM, 1.25mm   |     |
| 1    | 1319541     | AR  | SHIM, 1.30mm   |     |
| 1    | 1319542     | AR  | SHIM, 1.35mm   |     |
| 1    | 1319522     | AR  | SHIM, 1.40mm   |     |
| 1    | 1319521     | AR  | SHIM, 1.45mm   |     |
| 1    | 1319520     | AR  | SHIM, 1.50mm   |     |
| 1    | 1319519     | AR  | SHIM, 1.55mm   |     |
| 1    | 1319518     | AR  | SHIM, 1.60mm   |     |
| 1    | 1319517     | AR  | SHIM, 1.65mm   |     |
| 1    | 1319510     | AR  | SHIM, 2.0mm    |     |
| 1    | 1321159     | AR  | SHIM, 1.47mm   |     |
| 1    | 8035948     | AR  | SHIM, 1.63mm   |     |
| 1    | 1319515     | AR  | SHIM, 1.75mm   |     |
| 1    | 1319516     | AR  | SHIM, 1.70mm   |     |
| 1    | 1319514     | AR  | SHIM, 1.80mm   |     |
| 1    | 1319513     | AR  | SHIM, 1.85mm   |     |
| 1    | 1319512     | AR  | SHIM, 1.90mm   |     |
| 1    | 1319511     | AR  | SHIM, 1.95mm   |     |
| 2    | 8036445     | 2   | ROLLER BEARING |     |
| 3    | 8036447     | 2   | ROLLER BEARING |     |
| 4    | 8036444     | 2   | SHAFT SEAL     |     |
| 5    | 1319425     | 2   | O-RING         |     |
| 6    | 1319491     | 12  | O-RING         |     |
| 7    | 8036331     | 4   | O-RING         |     |
| 8    | 1319431     | 2   | SCREW PLUG     |     |
| 9    | 1319506     | 2   | SCREW PLUG     |     |
| 10   | 1319505     | 2   | VENT VALVE     |     |

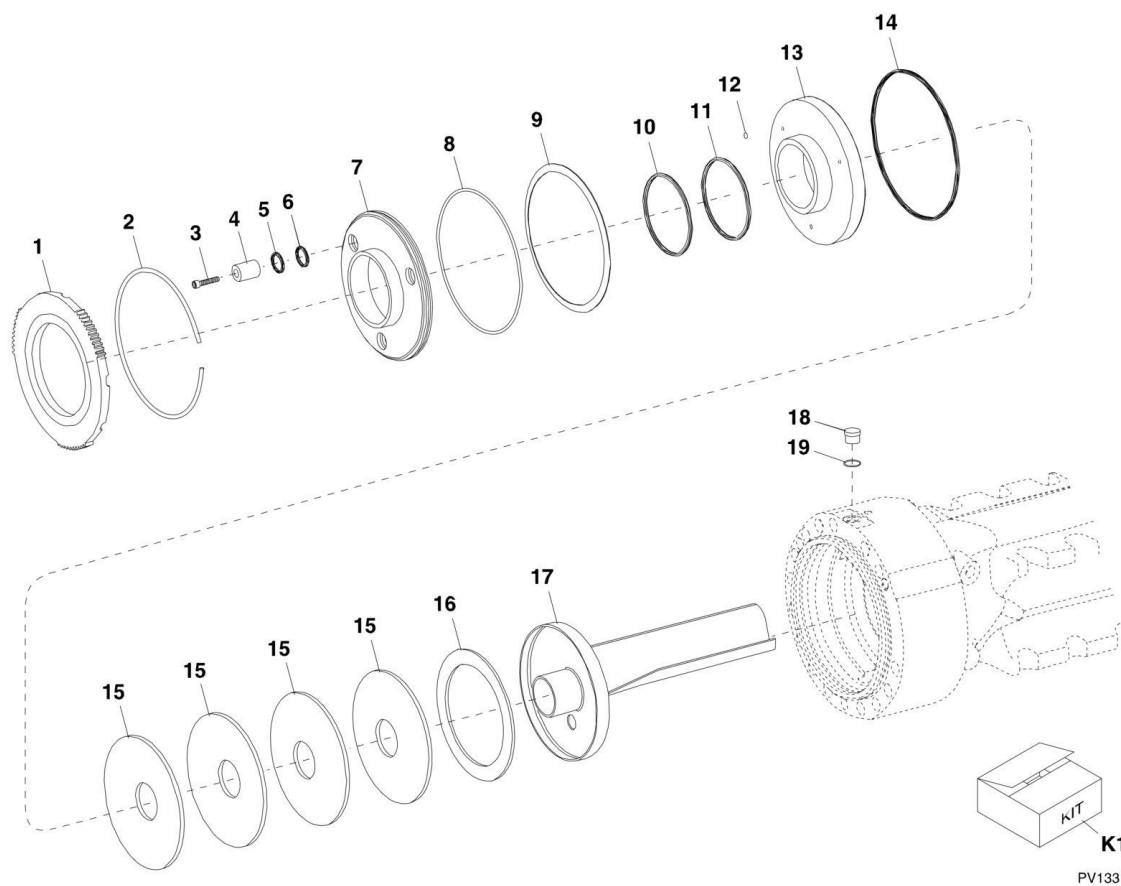
## SECTION 5 - DRIVE TRAIN

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                                                                                | REV |
|------|-------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 11   | 8035936     | NLA | BRAKE HOUSING, (right side), (Prior to Axle SN 679304), (no longer available, see note, order 70020483 for replacement)                                                                    |     |
| 11   | 70020483    | 1   | BRAKE HOUSING, (right side), (Axle SN 679304 to Present)                                                                                                                                   |     |
| 11   | 8035939     | NLA | BRAKE HOUSING, (left side), (Prior to Axle SN 679304), (no longer available, see note, order 70020484 for replacement)                                                                     |     |
| 11   | 70020484    | 1   | BRAKE HOUSING, (left side), (Axle SN 679304 to Present)                                                                                                                                    |     |
| 12   | 1321151     | 2   | SUPPORT RING                                                                                                                                                                               |     |
| 13   | 1321162     | 2   | U-RING                                                                                                                                                                                     |     |
| 14   | 1321163     | 2   | U-RING                                                                                                                                                                                     |     |
| 15   | 1321152     | 2   | SUPPORT RING                                                                                                                                                                               |     |
| 16   | 1319496     | 16  | PIN                                                                                                                                                                                        |     |
| 17   | 1319497     | 16  | COMPRESSION SPRING                                                                                                                                                                         |     |
| 18   | 8036305     | 2   | WASHER                                                                                                                                                                                     |     |
| 19   | 8036304     | 2   | PISTON                                                                                                                                                                                     |     |
| 20   | 1319499     | 16  | CRESCENT RING                                                                                                                                                                              |     |
| 21   | 1319504     | 2   | SNAP RING                                                                                                                                                                                  |     |
| 22   | 10731949    | 4   | RETAINING RING                                                                                                                                                                             |     |
| 23   | 1321174     | 2   | DISC CARRIER, (Prior to Axle SN 823786)                                                                                                                                                    |     |
| 23   | 70020409    | 1   | DISC CARRIER, (Axle SN 823786 to Present)                                                                                                                                                  |     |
| 24   | 7027217     | 2   | O-RING                                                                                                                                                                                     |     |
| 25   | 1319500     | 4   | O. CLUTCH DISC, 2.0mm, (Prior to Axle SN 679304)                                                                                                                                           |     |
| 25   | 70020485    | 4   | O. CLUTCH DISC, 2.0mm, (Axle SN 679304 to present)                                                                                                                                         |     |
| 25   | 1319501     | 4   | O. CLUTCH DISC, 2.5mm, (Prior to Axle SN 679304)                                                                                                                                           |     |
| 25   | 70020486    | 4   | O. CLUTCH DISC, 2.5mm, (Axle SN 679304 to Present)                                                                                                                                         |     |
| 25   | 1319502     | 4   | O. CLUTCH DISC, 3.0mm, (Prior to Axle SN 679304)                                                                                                                                           |     |
| 25   | 70020487    | 4   | O. CLUTCH DISC, 3.0mm, (Axle SN 679304 to Present)                                                                                                                                         |     |
| 26   | 1321150     | 10  | I. CLUTCH DISC, (Prior to Axle SN 823786)                                                                                                                                                  |     |
| 26   | 70020408    | 5   | I. CLUTCH DISC, (Axle SN 823786 to Present)                                                                                                                                                |     |
| 27   | 1319502     | 8   | O. CLUTCH DISC, 3.0mm, (Prior to Axle SN 679304)                                                                                                                                           |     |
| 27   | 70020487    | 8   | O. CLUTCH DISC, 3.0mm, (Axle SN 679304 to Present)                                                                                                                                         |     |
| 28   | 1319666     | 2   | SCREW PLUG                                                                                                                                                                                 |     |
| 29   |             | Ref | LIMITED SLIP DIFFERENTIAL, (See FRONT AXLE - LIMITED SLIP DIFFERENTIAL for Breakdown)                                                                                                      |     |
| 30   |             | Ref | GEAR SET BEVEL, (See FRONT AXLE – INPUT for Breakdown)                                                                                                                                     |     |
| N1   | Note        | Ref | <b>PARTS ARE NO LONGER AVAILABLE; ORDER BRAKE HOUSINGS 70020483 &amp; 70020484, QUANTITY REQUIRED OF OUTER DISCS 70020485, 70020486 &amp; 70020487, QUANTITY 2 OF 70020413 END PLATES.</b> |     |



## SECTION 5 - DRIVE TRAIN

**FIGURE 5-7. FRONT AXLE - BRAKE**



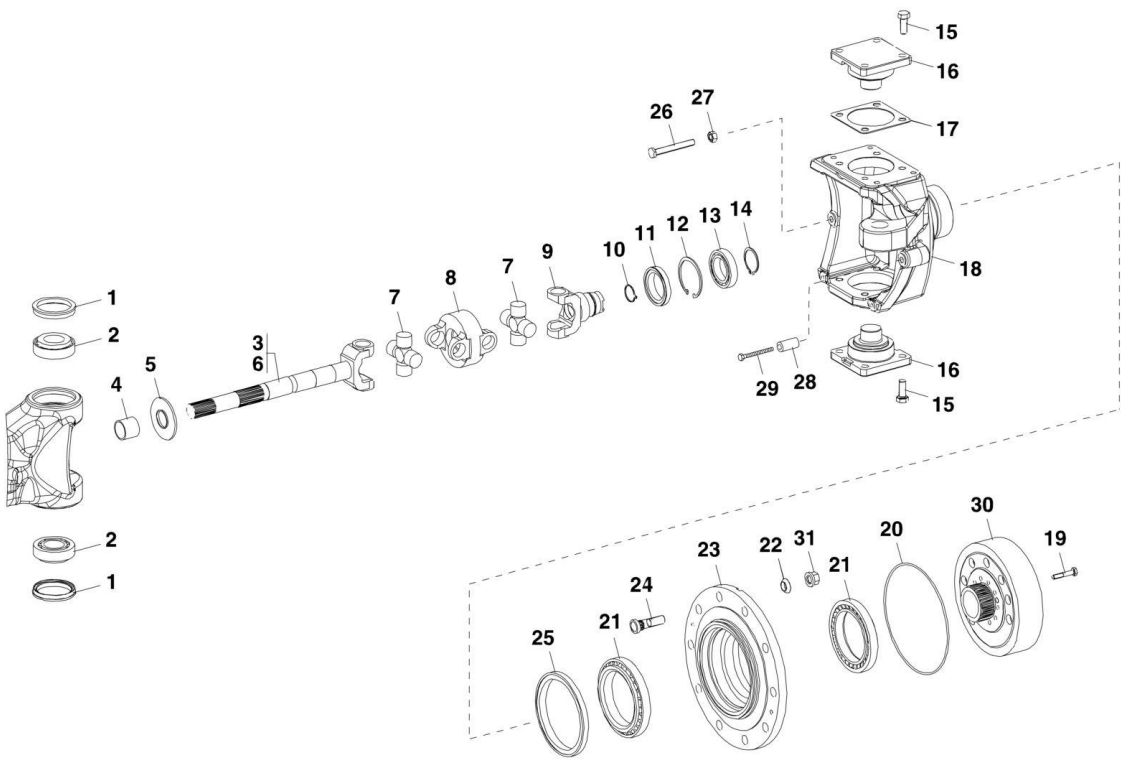
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-7. FRONT AXLE - BRAKE**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                                                                                    | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 1    | 8036848     | 2   | END SHIM, (Prior to Axle SN 679304)                                                                                                                                                            |     |
| 1    | 70020413    | 2   | END SHIM, (Axle SN 679304 to Present)                                                                                                                                                          |     |
| 2    | 1321206     | 2   | SNAP RING                                                                                                                                                                                      |     |
| 3    | 8036321     | 6   | CAP SCREW                                                                                                                                                                                      |     |
| 4    | 1321244     | 6   | PRESSURE PIN                                                                                                                                                                                   |     |
| 5    | 8036862     | 6   | O-RING                                                                                                                                                                                         |     |
| 6    | 8036861     | 6   | U-RING                                                                                                                                                                                         |     |
| 7    | 8036849     | 2   | SEALING WASHER                                                                                                                                                                                 |     |
| 8    | 8036320     | 2   | O-RING                                                                                                                                                                                         |     |
| 9    | 1321208     | 2   | CUP SPRING                                                                                                                                                                                     |     |
| 10   | 8036855     | 2   | BACK-UP RING                                                                                                                                                                                   |     |
| 11   | 8036854     | 2   | U-RING                                                                                                                                                                                         |     |
| 12   | 8036859     | 6   | BACK-UP RING                                                                                                                                                                                   |     |
| 13   | 7027212     | 2   | PISTON                                                                                                                                                                                         |     |
| 14   | 8036852     | 2   | U-RING                                                                                                                                                                                         |     |
| 15   | 1321207     | 8   | CUP SPRING                                                                                                                                                                                     |     |
| 16   | 8035958     | 2   | SPACING WASHER                                                                                                                                                                                 |     |
| 17   | 8036856     | 2   | OIL DAM                                                                                                                                                                                        |     |
| 18   | 1319666     | 2   | SCREW PLUG                                                                                                                                                                                     |     |
| 19   | 7027217     | 2   | O-RING                                                                                                                                                                                         |     |
| K1   | 7029104     | AR  | BRAKE UPGRADE KIT, (Prior to Axle SN 679304), (contains quantity of 1 each of items 1, 2, 7 thru 11, 13, 14, 17; quantity of 3 each of items 3 thru 6, 12 and quantity of 1 of 1319425 o-ring) |     |

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FIGURE 5-8. FRONT AXLE - JOINT HOUSING



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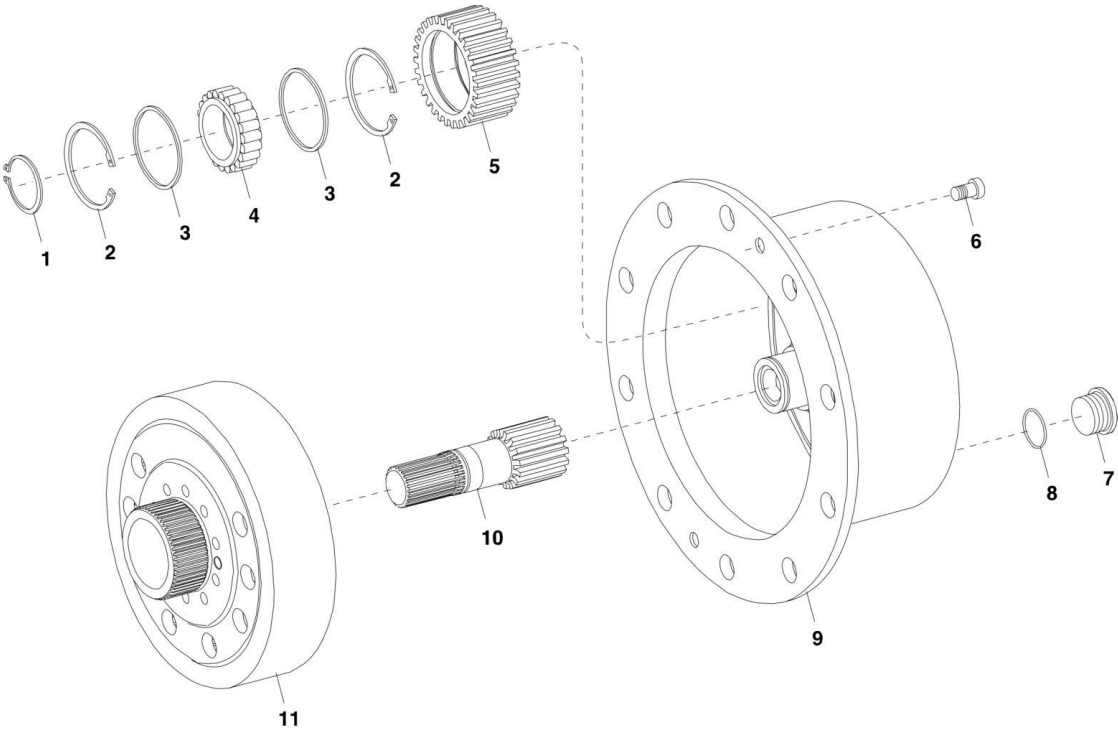
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-8. FRONT AXLE - JOINT HOUSING**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                 | REV |
|------|-------------|-----|-------------------------------------------------------------|-----|
| 1    | 1319447     | 4   | SHAFT SEAL                                                  |     |
| 2    | 1319445     | 4   | ROLLER BEARING                                              |     |
| 3    | 1321175     | 2   | DRIVESHAFT UNIVERSAL COUPLING, (includes items 4 thru 9)    |     |
| 4    | 8035973     | 1   | BUSHING                                                     |     |
| 5    | 8035974     | 1   | SCREENSHEET                                                 |     |
| 6    | 8035972     | 1   | JOINT COUPLING FORK                                         |     |
| 7    | 8035970     | 1   | JOINT FORK, (Prior to Axle SN 755298)                       |     |
| 7    | 70021790    | 1   | JOINT FORK, (Axle SN 755298 to Present)                     |     |
| 8    | 8035969     | 1   | CENTRAL PIECE, (Prior to Axle SN 755298)                    |     |
| 8    | 70021789    | 1   | CENTRAL PIECE, (Axle SN 755298 to Present)                  |     |
| 9    | 8035971     | 1   | JOINT FORK                                                  |     |
| 10   | 1321228     | 2   | RETAINING RING                                              |     |
| 11   | 7028977     | 2   | SHAFT SEAL                                                  |     |
| 12   | 1319210     | 2   | RETAINING RING                                              |     |
| 13   | 1321157     | 2   | BALL BEARING                                                |     |
| 14   | 80304405    | 2   | RETAINING RING                                              |     |
| 15   | 1319464     | 16  | HEX SCREW                                                   |     |
| 16   | 1319462     | 4   | BEARING PIN                                                 |     |
| 17   | 1321249     | AR  | SHIM, 0.2mm                                                 |     |
| 17   | 8035959     | AR  | SHIM, 0.3mm                                                 |     |
| 17   | 8035960     | AR  | SHIM, 0.4mm                                                 |     |
| 17   | 8035961     | AR  | SHIM, 0.5mm                                                 |     |
| 17   | 8035962     | AR  | SHIM, 0.6mm                                                 |     |
| 17   | 1321250     | AR  | SHIM, 0.7mm                                                 |     |
| 17   | 8035963     | AR  | SHIM, 0.8mm                                                 |     |
| 17   | 8035964     | AR  | SHIM, 1.0mm                                                 |     |
| 17   | 8035965     | AR  | SHIM, 1.2mm                                                 |     |
| 17   | 8035966     | AR  | SHIM, 1.4mm                                                 |     |
| 17   | 1321251     | AR  | SHIM, 1.6mm                                                 |     |
| 17   | 8035967     | AR  | SHIM, 1.8mm                                                 |     |
| 17   | 8035968     | AR  | SHIM, 2.0mm                                                 |     |
| 18   | 1321256     | 1   | JOINT HOUSING, (right side)                                 |     |
| 18   | 1321257     | 1   | JOINT HOUSING, (left side)                                  |     |
| 19   | 8036866     | 20  | HEX SCREW                                                   |     |
| 20   | 1321155     | 2   | O-RING                                                      |     |
| 21   | 1319472     | 4   | ROLLER BEARING                                              |     |
| 22   |             | Ref | WASHER, (See DRIVE TRAIN COMPONENTS for Breakdown)          |     |
| 23   | 1321254     | 2   | HUB                                                         |     |
| 24   | 8036434     | 20  | WHEEL BOLT                                                  |     |
| 25   | 80304173    | 2   | SHAFT SEAL                                                  |     |
| 26   | 1319475     | 2   | STOP SCREW                                                  |     |
| 27   | 1319477     | 2   | NUT                                                         |     |
| 28   | 7026664     | 2   | SPACER TUBE                                                 |     |
| 29   | 8036330     | 2   | STOP SCREW                                                  |     |
| 30   |             | Ref | RING GEAR, (See FRONT AXLE - PLANETARY DRIVE for Breakdown) |     |
| 31   |             | Ref | LUG NUT, (See DRIVE TRAIN COMPONENTS for Breakdown)         |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-9. FRONT AXLE - PLANETARY DRIVE



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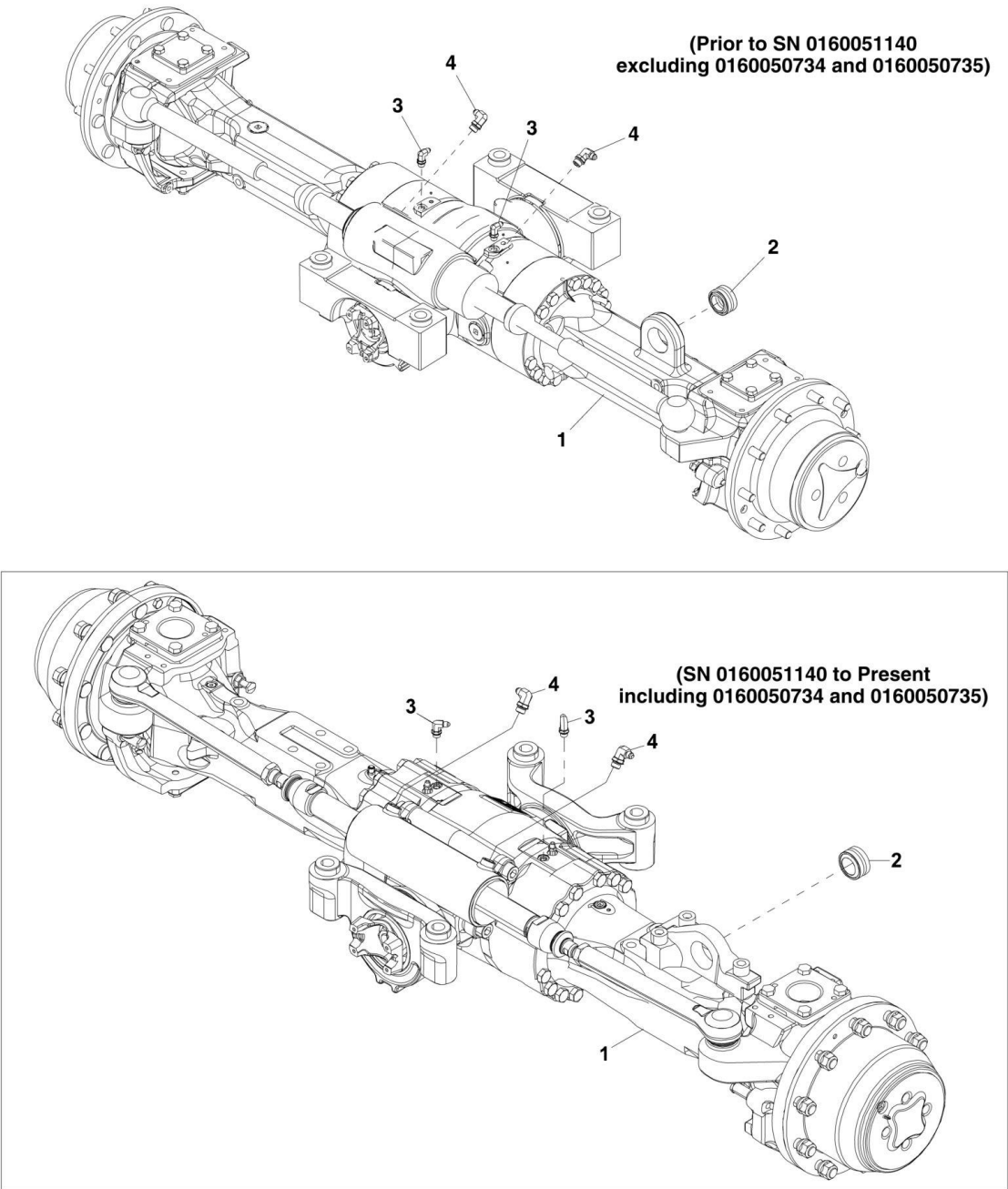
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-9. FRONT AXLE - PLANETARY DRIVE**

| ITEM | PART NUMBER | QTY | DESCRIPTION       | REV |
|------|-------------|-----|-------------------|-----|
| 1    | 80304227    | 3   | RETAINING RING    |     |
| 2    | 1321205     | 6   | SNAP RING         |     |
| 3    | 1321191     | 6   | WASHER            |     |
| 4    | 1321214     | 3   | ROLLER BEARING    |     |
| 5    | 1321233     | 3   | PLANETARY GEAR    |     |
| 6    | 8035977     | 2   | CAP SCREW         |     |
| 7    | 1319506     | 1   | SCREW PLUG        |     |
| 8    | 8036331     | 1   | O-RING            |     |
| 9    | 1321232     | 1   | PLANETARY CARRIER |     |
| 10   | 1321255     | 1   | SUN GEAR SHAFT    |     |
| 11   | 1321258     | 1   | RING GEAR         |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-10. REAR AXLE ASSEMBLY



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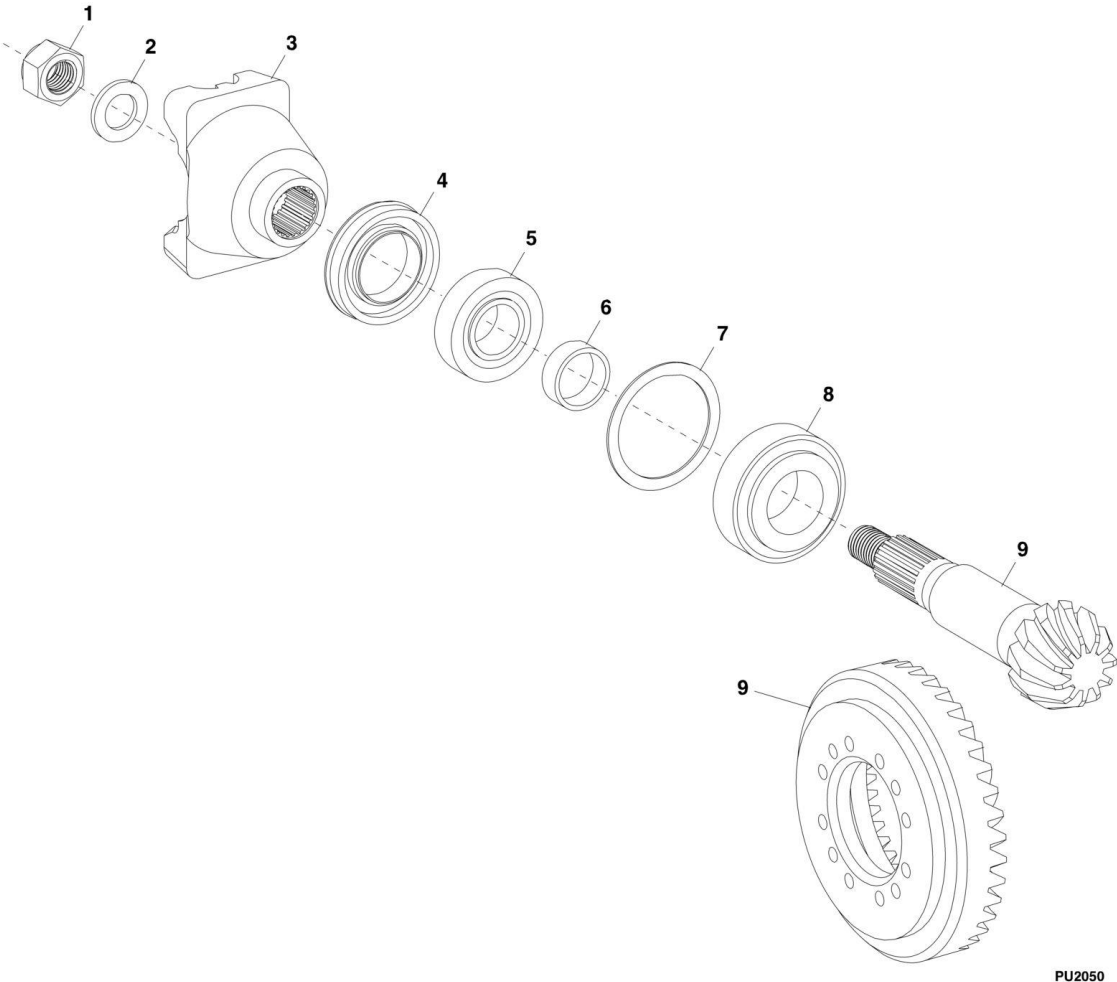
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-10. REAR AXLE ASSEMBLY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                   | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------------------|-----|
|      | 0280190     | 1   | REAR AXLE ASSY, (includes all items ) <b>(Prior to SN 0160051140, Excluding 0160050734 and 0160050735)</b>    | D   |
|      | 1001107571  | 1   | REAR AXLE ASSY, (includes all items ) <b>(SN 0160051140 to Present, Including 0160050734 and 01600507350)</b> | A   |
| 1    | 0280188     | 1   | REAR AXLE <b>(Prior to SN 0160051140, Excluding 0160050734 and 0160050735)</b>                                | F   |
| 1    | 1001107081  | 1   | REAR AXLE <b>(SN 0160051140 to Present, Including 0160050734 and 0160050735)</b>                              | C   |
| 1    |             | Ref | REAR AXLE - INPUT, (See REAR AXLE - INPUT for Breakdown)                                                      |     |
| 1    |             | Ref | REAR AXLE - DIFFERENTIAL, (See REAR AXLE – DIFFERENTIAL for Breakdown)                                        |     |
| 1    |             | Ref | REAR AXLE - AXLE CASING, (See REAR AXLE – CASING for Breakdown)                                               |     |
| 1    |             | Ref | REAR AXLE - M-DISC BRAKE, (See REAR AXLE - M-DISC BRAKE forBreakdown)                                         |     |
| 1    |             | Ref | REAR AXLE - BRAKE, (See REAR AXLE – BRAKE for Breakdown)                                                      |     |
| 1    |             | Ref | REAR AXLE - JOINT HOUSING, (See REAR AXLE - JOINT HOUSING for Breakdown)                                      |     |
| 1    |             | Ref | REAR AXLE - PLANETARY DRIVE, (See REAR AXLE - PLANETARY DRIVE for Breakdown)                                  |     |
| 2    | 8050001     | 1   | SELF ALIGN BEARING                                                                                            |     |
| 3    | 2220472     | 2   | ELBOW, 90                                                                                                     |     |
| 4    | 2220628     | 2   | ELBOW, 90                                                                                                     |     |

**SECTION 5 - DRIVE TRAIN**

**FIGURE 5-11. REAR AXLE - INPUT (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)**



## SECTION 5 - DRIVE TRAIN

**FIGURE 5-11. REAR AXLE - INPUT (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)**

| ITEM | PART NUMBER | QTY | DESCRIPTION      | REV |
|------|-------------|-----|------------------|-----|
| 1    | 8035983     | 1   | HEX NUT          |     |
| 2    | 1319406     | 1   | WASHER           |     |
| 3    | 1321237     | 1   | END YOKE         |     |
| 4    | 1321211     | 1   | COMBINATION RING |     |
| 5    | 1319444     | 1   | ROLLER BEARING   |     |
| 6    | 1319354     | 1   | RING, 15.1mm     |     |
| 6    | 1319355     | 1   | RING, 15.2mm     |     |
| 6    | 1319356     | 1   | RING, 15.3mm     |     |
| 6    | 1319357     | 1   | RING, 15.4mm     |     |
| 6    | 1319358     | 1   | RING, 15.5mm     |     |
| 6    | 1319359     | 1   | RING, 15.6mm     |     |
| 6    | 1319360     | 1   | RING, 15.7mm     |     |
| 6    | 1319361     | 1   | RING, 15.8mm     |     |
| 6    | 1319362     | 1   | RING, 15.9mm     |     |
| 6    | 1319363     | 1   | RING, 16.0mm     |     |
| 6    | 1319364     | 1   | RING, 16.1mm     |     |
| 6    | 1319365     | 1   | RING, 16.2mm     |     |
| 6    | 1319366     | 1   | RING, 16.3mm     |     |
| 6    | 1319367     | 1   | RING, 16.4mm     |     |
| 6    | 8035982     | 1   | RING, 16.26mm    |     |
| 6    | 1319369     | 1   | RING, 16.23mm    |     |
| 6    | 1319370     | 1   | RING, 16.16mm    |     |
| 6    | 1319371     | 1   | RING, 16.13mm    |     |
| 6    | 1319372     | 1   | RING, 16.06mm    |     |
| 6    | 1319373     | 1   | RING, 16.03mm    |     |
| 6    | 1319374     | 1   | RING, 15.96mm    |     |
| 6    | 1319375     | 1   | RING, 15.93mm    |     |
| 6    | 1319376     | 1   | RING, 15.86mm    |     |
| 6    | 1319377     | 1   | RING, 15.83mm    |     |
| 6    | 1319378     | 1   | RING, 15.76mm    |     |
| 6    | 1319379     | 1   | RING, 15.73mm    |     |
| 6    | 1319380     | 1   | RING, 15.66mm    |     |
| 6    | 1319381     | 1   | RING, 15.63mm    |     |
| 6    | 1319382     | 1   | RING, 15.56mm    |     |
| 6    | 1319383     | 1   | RING, 15.53mm    |     |
| 6    | 1319384     | 1   | RING, 15.46mm    |     |
| 6    | 1319385     | 1   | RING, 15.43mm    |     |
| 6    | 1319386     | 1   | RING, 15.36mm    |     |
| 6    | 1319387     | 1   | RING, 15.33mm    |     |
| 6    | 1319388     | 1   | RING, 15.26mm    |     |
| 6    | 1319389     | 1   | RING, 15.38mm    |     |
| 6    | 1319390     | 1   | RING, 15.48mm    |     |
| 6    | 1319391     | 1   | RING, 15.58mm    |     |
| 6    | 1319392     | 1   | RING, 15.68mm    |     |
| 6    | 1319393     | 1   | RING, 15.69mm    |     |
| 6    | 1319394     | 1   | RING, 15.72mm    |     |
| 6    | 1319395     | 1   | RING, 15.78mm    |     |
| 6    | 1319396     | 1   | RING, 15.81mm    |     |
| 6    | 1319397     | 1   | RING, 15.84mm    |     |

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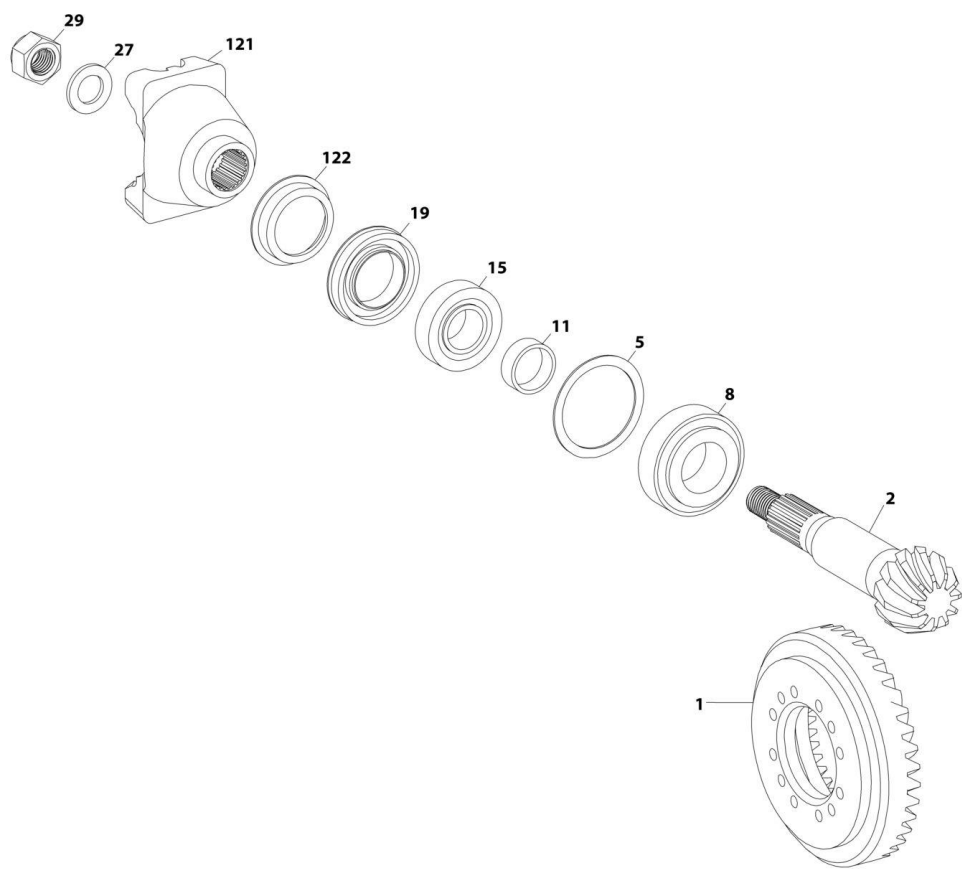
| ITEM | PART NUMBER | QTY | DESCRIPTION    | REV |
|------|-------------|-----|----------------|-----|
| 6    | 1319398     | 1   | RING, 15.88mm  |     |
| 6    | 1319399     | 1   | RING, 15.89mm  |     |
| 6    | 1319400     | 1   | RING, 15.91mm  |     |
| 6    | 1319401     | 1   | RING, 15.94mm  |     |
| 6    | 1319402     | 1   | RING, 15.97mm  |     |
| 7    | 1319333     | AR  | WASHER, 1.0mm  |     |
| 7    | 1319334     | AR  | WASHER, 1.05mm |     |
| 7    | 1319335     | AR  | WASHER, 1.1mm  |     |
| 7    | 1319336     | AR  | WASHER, 1.15mm |     |
| 7    | 1319337     | AR  | WASHER, 1.2mm  |     |
| 7    | 1319338     | AR  | WASHER, 1.25mm |     |
| 7    | 1319339     | AR  | WASHER, 1.3mm  |     |
| 7    | 1319340     | AR  | WASHER, 1.35mm |     |
| 7    | 1319341     | AR  | WASHER, 1.4mm  |     |
| 7    | 1319342     | AR  | WASHER, 1.45mm |     |
| 7    | 1319343     | AR  | WASHER, 1.5mm  |     |
| 7    | 1319344     | AR  | WASHER, 1.55mm |     |
| 7    | 1319345     | AR  | WASHER, 1.6mm  |     |
| 7    | 1319346     | AR  | WASHER, 0.9mm  |     |
| 7    | 1319347     | AR  | WASHER, 0.95mm |     |
| 7    | 1319348     | AR  | WASHER, 0.65mm |     |
| 7    | 1319349     | AR  | WASHER, 0.70mm |     |
| 7    | 1319350     | AR  | WASHER, 0.75mm |     |
| 7    | 1319351     | AR  | WASHER, 0.85mm |     |
| 7    | 1319352     | AR  | WASHER, 0.80mm |     |
| 8    | 1319353     | 1   | ROLLER BEARING |     |
| 9    | 7028974     | 1   | GEAR SET BEVEL |     |





SECTION 5 - DRIVE TRAIN

FIGURE 5-12. REAR AXLE - INPUT (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)



1001107081\_INPUT

## SECTION 5 - DRIVE TRAIN

**FIGURE 5-12. REAR AXLE - INPUT (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)**

| ITEM | PART NUMBER | QTY | DESCRIPTION            | REV |
|------|-------------|-----|------------------------|-----|
| 1    | 70022786    | 1   | Crown Wheel            |     |
| 2    | 70022786    | 1   | Bevel Gear             |     |
| 5    | 80304143    | 1   | Shim, 2.0mm            |     |
| 5    | 80304144    | 1   | Shim, 1.8mm            |     |
| 5    | 80304145    | 1   | Shim, 1.5mm            |     |
| 5    | 80304146    | 1   | Shim, 1.2mm            |     |
| 5    | 80304147    | 1   | Shim, 1.9mm            |     |
| 5    | 80304148    | 1   | Shim, 1.7mm            |     |
| 5    | 80304149    | 1   | Shim, 1.6mm            |     |
| 5    | 80304150    | 1   | Shim, 1.4mm            |     |
| 5    | 80304151    | 1   | Shim, 1.3mm            |     |
| 5    | 80304152    | 1   | Shim, 1.0mm            |     |
| 5    | 80304153    | 1   | Shim, 0.9mm            |     |
| 5    | 80304154    | 1   | Shim, 0.8mm            |     |
| 5    | 80304155    | 1   | Shim, 0.7mm            |     |
| 5    | 80304156    | 1   | Shim, 0.6mm            |     |
| 5    | 80304157    | 1   | Shim, 0.5mm            |     |
| 5    | 80304158    | 1   | Shim, 0.3mm            |     |
| 5    | 80304159    | 1   | Shim, 0.2mm            |     |
| 5    | 80304160    | 1   | Shim, 0.1mm            |     |
| 5    | 80304161    | 1   | Shim, 0.75mm           |     |
| 5    | 80304162    | 1   | Shim, 0.65mm           |     |
| 5    | 80304163    | 1   | Shim, 1.25mm           |     |
| 5    | 80304164    | 1   | Shim, 1.35mm           |     |
| 5    | 80304165    | 1   | Shim, 1.45mm           |     |
| 5    | 80304166    | 1   | Shim, 1.55mm           |     |
| 5    | 80304167    | 1   | Shim, 1.65mm           |     |
| 5    | 80304168    | 1   | Shim, 1.75mm           |     |
| 5    | 80304169    | 1   | Shim, 1.85mm           |     |
| 8    | 70023400    | 1   | Tapered Roller Bearing |     |
| 10   | 70024579    | 1   | Ring, 16.0mm           |     |
| 10   | 80304089    | 1   | Ring, 16.1mm           |     |
| 10   | 80304090    | 1   | Ring, 16.2mm           |     |
| 10   | 80304091    | 1   | Ring, 16.3mm           |     |
| 10   | 80304092    | 1   | Ring, 16.4mm           |     |
| 10   | 80304093    | 1   | Ring, 16.5mm           |     |
| 10   | 80304110    | 1   | Ring, 16.56mm          |     |
| 10   | 80304094    | 1   | Ring, 16.6mm           |     |
| 10   | 80304111    | 1   | Ring, 16.62mm          |     |
| 10   | 70024581    | 1   | Ring, 16.64mm          |     |
| 10   | 80304124    | 1   | Ring, 16.66mm          |     |
| 10   | 80304113    | 1   | Ring, 16.68mm          |     |
| 10   | 80304095    | 1   | Ring, 16.7mm           |     |
| 10   | 70022216    | 1   | Ring, 16.72mm          |     |
| 10   | 70024584    | 1   | Ring, 16.74mm          |     |
| 10   | 70024585    | 1   | Ring, 16.76mm          |     |
| 10   | 80304118    | 1   | Ring, 16.78mm          |     |
| 10   | 80304096    | 1   | Ring, 16.8mm           |     |
| 10   | 80304119    | 1   | Ring, 16.82mm          |     |

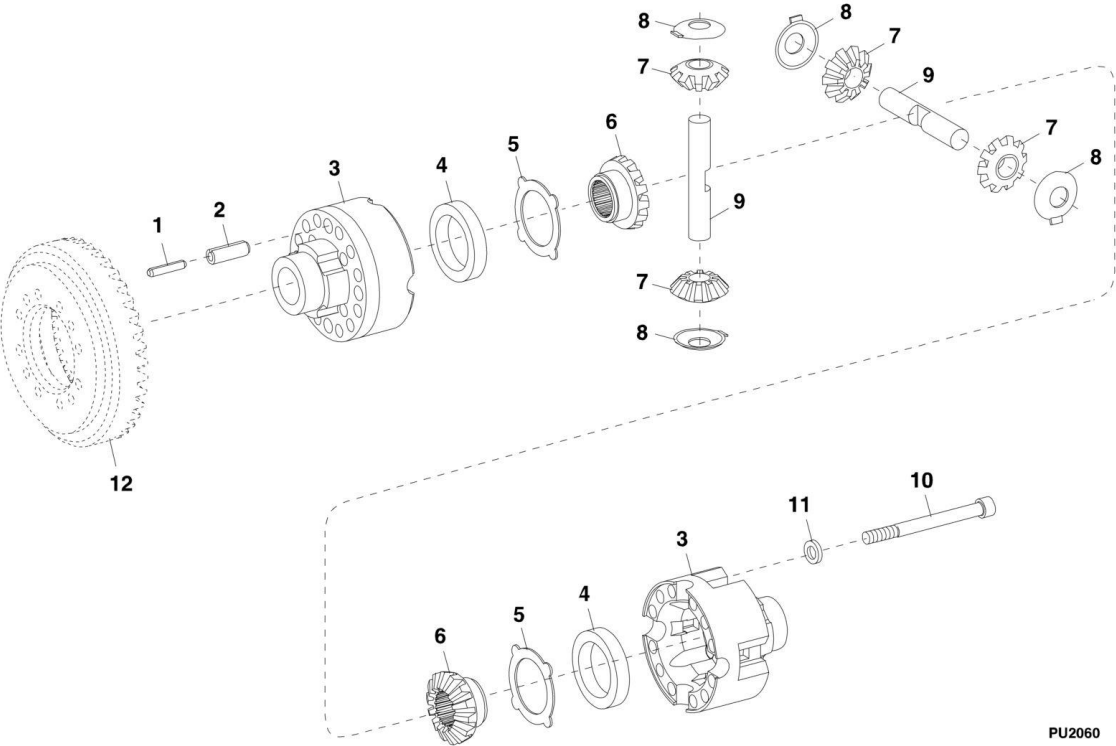
## SECTION 5 - DRIVE TRAIN

| ITEM | PART NUMBER | QTY | DESCRIPTION    | REV |
|------|-------------|-----|----------------|-----|
| 10   | 80304120    | 1   | Ring, 16.84mm  |     |
| 10   | 80304104    | 1   | Ring, 16.86mm  |     |
| 10   | 70024592    | 1   | Ring, 16.88mm  |     |
| 10   | 70023903    | 1   | Ring, 16.89mm  |     |
| 10   | 70024593    | 1   | Ring, 16.9mm   |     |
| 10   | 80304097    | 1   | Ring, 16.92mm  |     |
| 10   | 70024594    | 1   | Ring, 16.94mm  |     |
| 10   | 80304125    | 1   | Ring, 16.96mm  |     |
| 10   | 80304107    | 1   | Ring, 16.98mm  |     |
| 10   | 70024596    | 1   | Ring, 17.0mm   |     |
| 10   | 70024597    | 1   | Ring, 17.02mm  |     |
| 10   | 80304108    | 1   | Ring, 17.04mm  |     |
| 10   | 70024598    | 1   | Ring, 17.06mm  |     |
| 10   | 70024599    | 1   | Ring, 17.08mm  |     |
| 10   | 80304099    | 1   | Ring, 17.10mm  |     |
| 10   | 70024600    | 1   | Ring, 17.12mm  |     |
| 10   | 70024601    | 1   | Ring, 17.14mm  |     |
| 10   | 80304132    | 1   | Ring, 17.16mm  |     |
| 10   | 80304133    | 1   | Ring, 17.18mm  |     |
| 10   | 80304100    | 1   | Ring, 17.2mm   |     |
| 10   | 80304134    | 1   | Ring, 17.22mm  |     |
| 10   | 80304135    | 1   | Ring, 17.24mm  |     |
| 10   | 80304136    | 1   | Ring, 17.26mm  |     |
| 10   | 80304137    | 1   | Ring, 17.28mm  |     |
| 10   | 80304101    | 1   | Ring, 17.3mm   |     |
| 10   | 80304102    | 1   | Ring, 17.4mm   |     |
| 15   | 1319353     | 1   | Roller Bearing |     |
| 19   | 70022220    | 1   | Shaft Seal     |     |
| 27   | 80304082    | 1   | Washer         |     |
| 29   | 70022213    | 1   | Hex Nut        |     |
| 121  | 70022245    | 1   | Yoke End       |     |
| 122  | 70022776    | 1   | Screen Sheet   |     |



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FIGURE 5-13. REAR AXLE - DIFFERENTIAL (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)



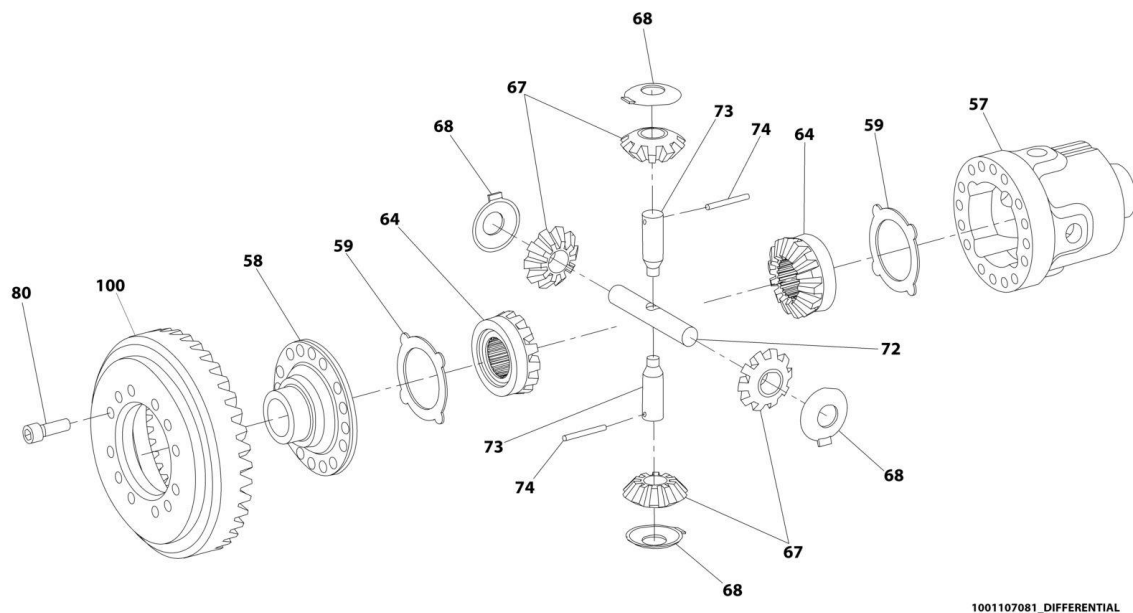
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-13. REAR AXLE - DIFFERENTIAL (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                           | REV |
|------|-------------|-----|-------------------------------------------------------|-----|
|      | 7028976     | 1   | DIFFERENTIAL ASSY, (includes items 1 thru 11)         |     |
| 1    | 1321154     | 4   | SLOT PIN                                              |     |
| 2    | 1321153     | 4   | SLOT PIN                                              |     |
| 3    | 1321215     | 1   | DIFFERENTIAL CASE                                     |     |
| 4    | 1321260     | 2   | DIFFERENTIAL RING, 13.7mm, (Prior to Axle SN 708692)  |     |
| 4    | 8035984     | 2   | DIFFERENTIAL RING, 13.6mm, (Prior to Axle SN 708692)  |     |
| 4    | 1321259     | 2   | DIFFERENTIAL RING, 13.5mm, (Prior to Axle SN 708692)  |     |
| 5    | 1319412     | 2   | THRUST WASHER                                         |     |
| 6    | 8036752     | 2   | AXLE BEVEL GEAR                                       |     |
| 7    | 8036753     | 4   | DIFFERENTIAL BEVEL GEAR, (Prior to Axle SN 708692)    |     |
| 7    | 1319414     | 4   | DIFFERENTIAL BEVEL GEAR, (Axle SN 708692 to Present)  |     |
| 8    | 1319415     | 4   | THRUST WASHER                                         |     |
| 9    | 1321225     | 2   | DIFFERENTIAL AXLE                                     |     |
| 10   | 8035923     | 12  | CAPSCREW                                              |     |
| 11   | 1321184     | 12  | WASHER                                                |     |
| 12   |             | Ref | GEAR SET BEVEL, (See REAR AXLE - INPUT for Breakdown) |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-14. REAR AXLE - DIFFERENTIAL (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)



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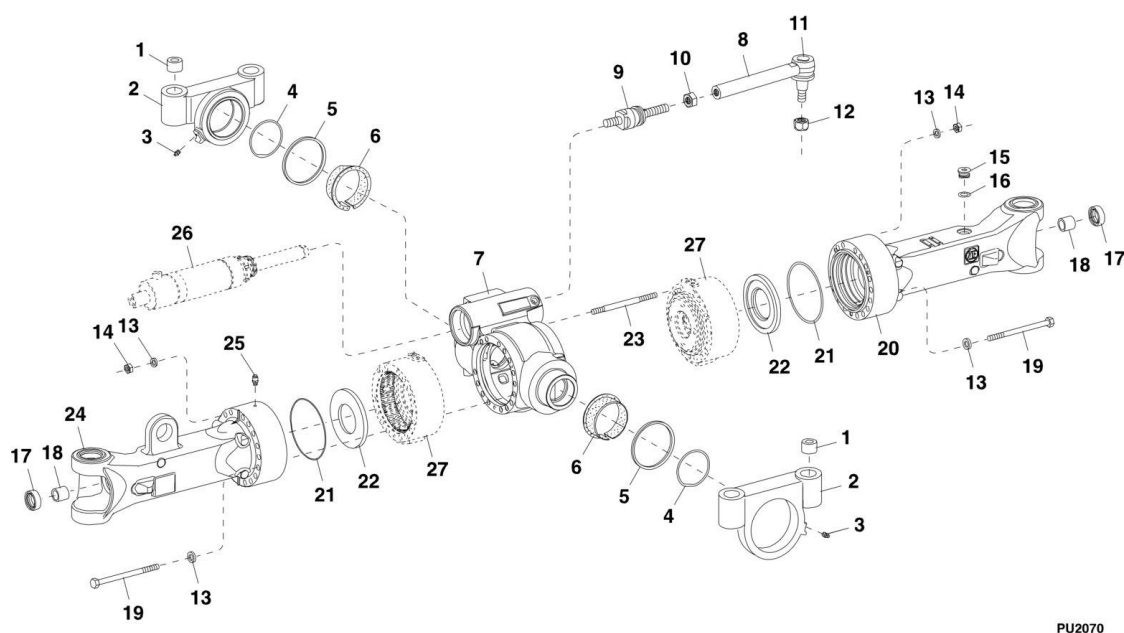
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-14. REAR AXLE - DIFFERENTIAL (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                       | REV |
|------|-------------|-----|---------------------------------------------------|-----|
| 57   | 70023910    | 1   | Differential Case                                 |     |
| 58   | 70022229    | 1   | Cover                                             |     |
| 59   | 70022284    | 2   | Thrust Washer                                     |     |
| 64   | See Note    | 2   | Bevel Gear (note: purchase 70024609)              |     |
| 67   | 70022185    | 4   | Differential Bevel Gear                           |     |
| 68   | 70022262    | 4   | Thrust Washer                                     |     |
| 72   | 70022227    | 1   | Differential Axle                                 |     |
| 73   | 70022228    | 2   | Differential Axle                                 |     |
| 74   | 70023904    | 2   | Slot Pin                                          |     |
| 80   | 70022211    | 16  | Bolt M12 x 35                                     |     |
| 100  |             | Ref | Crown Wheel (see REAR AXLE - INPUT for Breakdown) |     |

## SECTION 5 - DRIVE TRAIN

**FIGURE 5-15. REAR AXLE - AXLE CASING (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)**



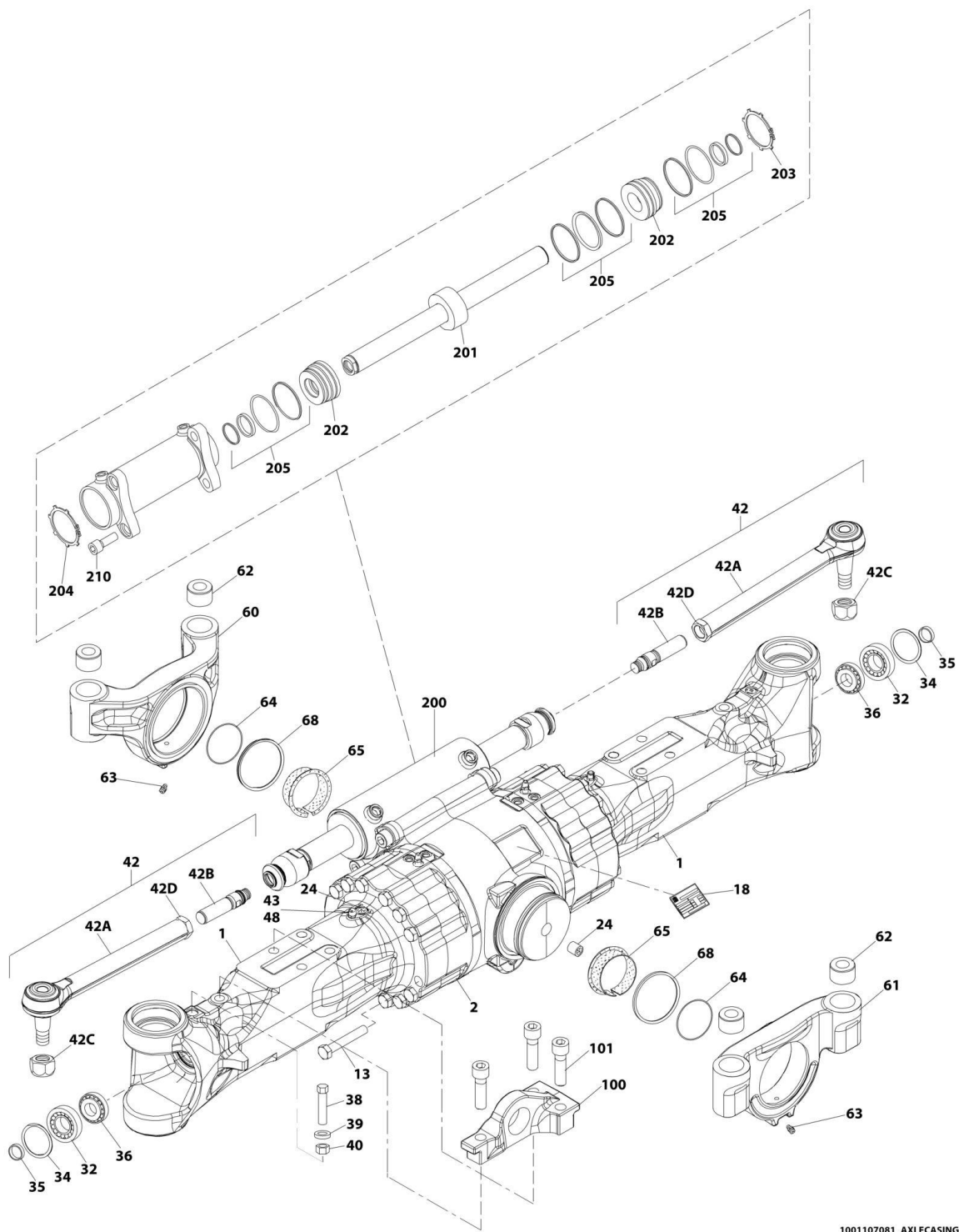
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-15. REAR AXLE - AXLE CASING (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                               | REV |
|------|-------------|-----|---------------------------------------------------------------------------|-----|
| 1    | 1319441     | 4   | CENTERING BUSHING                                                         |     |
| 2    | 8035933     | 2   | BRACKET                                                                   |     |
| 3    | 1319423     | 2   | GREASE FITTING                                                            |     |
| 4    | 1319439     | 2   | O-RING                                                                    |     |
| 5    | 1319440     | 2   | V-RING                                                                    |     |
| 6    | 8036419     | 2   | FLANGE BUSHING                                                            |     |
| 7    | 7027227     | NLA | AXLE DRIVE HOUSING, (no longer available, order 70021111 for replacement) |     |
| 7    | 70021111    | 1   | AXLE DRIVE HOUSING                                                        |     |
| 8    | 1321148     | 2   | TRACK ROD, (includes items 9 thru 12)                                     |     |
| 9    | 8036757     | 2   | AXIAL JOINT COUPLING                                                      |     |
| 10   | 8036759     | 2   | HEX NUT                                                                   |     |
| 11   | 8036756     | 2   | BALL JOINT w/PIPE COUPLING                                                |     |
| 12   | 8036758     | 2   | LOCKING NUT                                                               |     |
| 13   | 8036312     | 30  | WASHER, (if required), (only used with 7027227 axle drive housing)        |     |
| 14   | 1319429     | 8   | HEX NUT                                                                   |     |
| 15   | 1319506     | 1   | SCREW PLUG                                                                |     |
| 16   | 8036331     | 1   | O-RING                                                                    |     |
| 17   | 7027211     | 2   | SHAFT SEAL                                                                |     |
| 18   | 1319433     | 2   | BUSHING                                                                   |     |
| 19   | 8035927     | 30  | HEX SCREW, (used with 7027227 axle drive housing)                         |     |
| 19   | 8035927     | 28  | HEX SCREW, (used with 70021111 axle drive housing)                        |     |
| 20   | 8035987     | 1   | AXLE CASING, (right rear)                                                 |     |
| 21   | 1319425     | 2   | O-RING                                                                    |     |
| 22   | 8036606     | 2   | END SHIM, (Prior to Axle SN 679469)                                       |     |
| 22   | 70020413    | 2   | END SHIM, (Axle SN 679469 to Present)                                     |     |
| 23   | 8036313     | 8   | STUD                                                                      |     |
| 24   | 8035986     | 1   | AXLE CASING, (left rear)                                                  |     |
| 25   | 1319436     | 1   | VENT VALVE                                                                |     |
| 26   |             | Ref | STEERING CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)       |     |
| 27   |             | Ref | BRAKE HOUSING, (See REAR AXLE - M-DISC BRAKE for Breakdown)               |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-16. REAR AXLE - AXLE CASING (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)



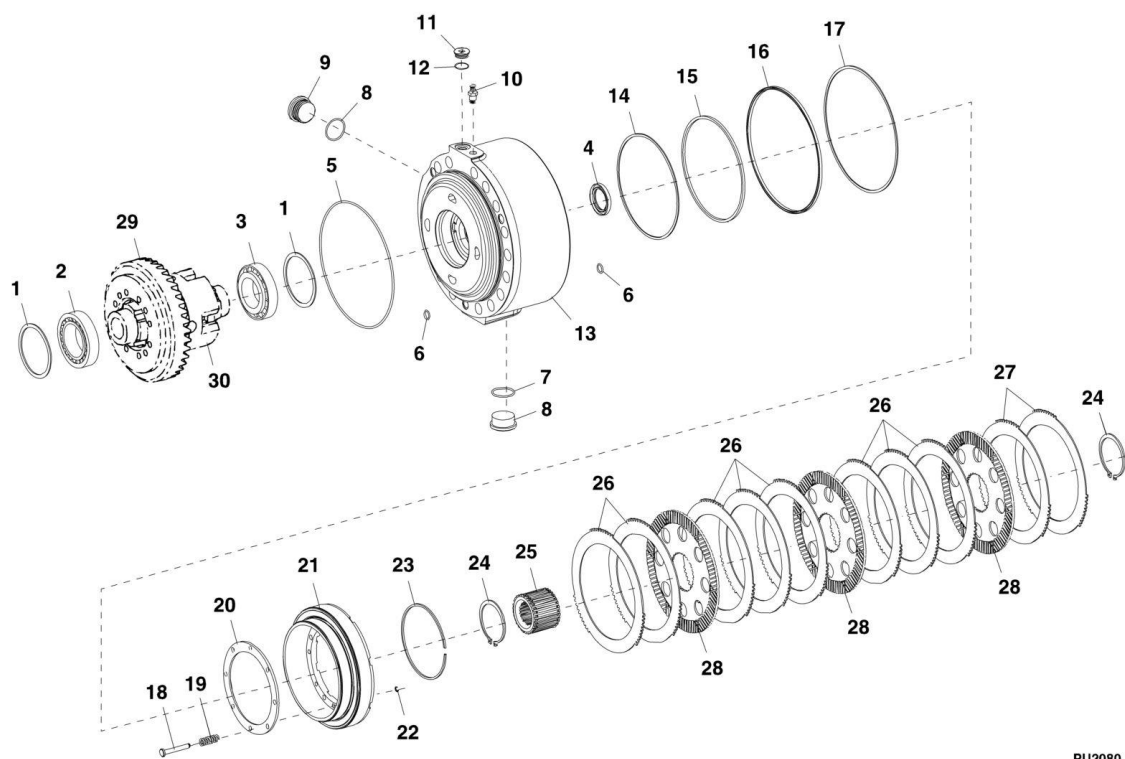
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-16. REAR AXLE - AXLE CASING (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                | REV |
|------|-------------|-----|----------------------------|-----|
| 1    | 70022255    | 2   | Axle Casing                |     |
| 3    | 70022259    | 1   | Housing                    |     |
| 13   | 70022206    | 28  | Bolt M18 x 180mm           |     |
| 18   | NSS         | NSS | SN Plate                   |     |
| 24   | 70023404    | 4   | Screw Plug                 |     |
| 32   | 70022241    | 2   | Bushing                    |     |
| 34   | 70022204    | 2   | O-Ring                     |     |
| 35   | 70022217    | 2   | Ring                       |     |
| 36   | 10731790    | 2   | Bearing                    |     |
| 38   | 70024615    | 2   | Bolt M10 x 55              |     |
| 39   | 70023906    | 2   | Washer                     |     |
| 40   | 70023907    | 2   | Nut                        |     |
| 42   | 70022174    | 2   | Tie Rod                    |     |
| 42A  | 70022175    | 1   | Ball Joint                 |     |
| 42B  | 70022172    | 1   | Joint                      |     |
| 42C  | 8036758     | 1   | Nut, Lock                  |     |
| 42D  | 8036759     | 1   | Nut                        |     |
| 43   | 1319436     | 1   | Breather                   |     |
| 48   | 8036418     | 2   | Plug                       |     |
| 60   | 70022246    | 1   | Bracket                    |     |
| 61   | 70022247    | 1   | Bracket                    |     |
| 62   | 1319441     | 4   | Bushing                    |     |
| 63   | 1319423     | 2   | Nipple                     |     |
| 64   | 70022205    | 2   | O-Ring                     |     |
| 65   | 70022182    | 2   | Flange Bushing             |     |
| 68   | 70022219    | 2   | V-Ring                     |     |
| 100  | 70022254    | 1   | Bracket                    |     |
| 101  | 1001103619  | 4   | Bolt M22 x 80              |     |
| 200  | 70022173    | 1   | Steering Cylinder Assembly |     |
| 201  | 70022177    | 1   | Piston Rod                 |     |
| 202  | 70022184    | 2   | Brake                      |     |
| 203  | 70022181    | 2   | Retaining Ring             |     |
| 204  | 70022180    | 2   | Retaining Ring             |     |
| 205  | 70022178    | 1   | Seal Kit                   |     |
| 210  | 70022789    | 4   | Bolt M22 x 55              |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-17. REAR AXLE - M-DISC BRAKE (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)



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## SECTION 5 - DRIVE TRAIN

**FIGURE 5-17. REAR AXLE - M-DISC BRAKE (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)**

| ITEM | PART NUMBER | QTY | DESCRIPTION    | REV |
|------|-------------|-----|----------------|-----|
| 1    | 1319531     | AR  | SHIM, 0.1mm    |     |
| 1    | 8035945     | AR  | SHIM, 0.15mm   |     |
| 1    | 1319530     | AR  | SHIM, 0.2mm    |     |
| 1    | 8035946     | AR  | SHIM, 0.25mm   |     |
| 1    | 1319529     | AR  | SHIM, 0.3mm    |     |
| 1    | 8035947     | AR  | SHIM, 0.35mm   |     |
| 1    | 8035951     | AR  | SHIM, 0.4mm    |     |
| 1    | 1319543     | AR  | SHIM, 0.45mm   |     |
| 1    | 1319527     | AR  | SHIM, 0.5mm    |     |
| 1    | 1321158     | AR  | SHIM, 0.55mm   |     |
| 1    | 1319526     | AR  | SHIM, 0.6mm    |     |
| 1    | 1319532     | AR  | SHIM, 0.65mm   |     |
| 1    | 1319533     | AR  | SHIM, 0.7mm    |     |
| 1    | 1319534     | AR  | SHIM, 0.75mm   |     |
| 1    | 1319525     | AR  | SHIM, 0.8mm    |     |
| 1    | 1319535     | AR  | SHIM, 0.85mm   |     |
| 1    | 1319536     | AR  | SHIM, 0.9mm    |     |
| 1    | 1319537     | AR  | SHIM, 0.95mm   |     |
| 1    | 1319524     | AR  | SHIM, 1.0mm    |     |
| 1    | 1319545     | AR  | SHIM, 1.05mm   |     |
| 1    | 1319538     | AR  | SHIM, 1.10mm   |     |
| 1    | 1319539     | AR  | SHIM, 1.15mm   |     |
| 1    | 1319523     | AR  | SHIM, 1.20mm   |     |
| 1    | 1319540     | AR  | SHIM, 1.25mm   |     |
| 1    | 1319541     | AR  | SHIM, 1.30mm   |     |
| 1    | 1319542     | AR  | SHIM, 1.35mm   |     |
| 1    | 1319522     | AR  | SHIM, 1.40mm   |     |
| 1    | 1319521     | AR  | SHIM, 1.45mm   |     |
| 1    | 1319520     | AR  | SHIM, 1.50mm   |     |
| 1    | 1319519     | AR  | SHIM, 1.55mm   |     |
| 1    | 1319518     | AR  | SHIM, 1.60mm   |     |
| 1    | 8035948     | AR  | SHIM, 1.63mm   |     |
| 1    | 1319517     | AR  | SHIM, 1.65mm   |     |
| 1    | 1319510     | AR  | SHIM, 2.0mm    |     |
| 1    | 1321159     | AR  | SHIM, 1.47mm   |     |
| 1    | 1319516     | AR  | SHIM, 1.70mm   |     |
| 1    | 1319515     | AR  | SHIM, 1.75mm   |     |
| 1    | 1319514     | AR  | SHIM, 1.80mm   |     |
| 1    | 1319513     | AR  | SHIM, 1.85mm   |     |
| 1    | 1319512     | AR  | SHIM, 1.90mm   |     |
| 1    | 1319511     | AR  | SHIM, 1.95mm   |     |
| 2    | 8036447     | 2   | ROLLER BEARING |     |
| 3    | 8036445     | 2   | ROLLER BEARING |     |
| 4    | 8036444     | 2   | SHAFT SEAL     |     |
| 5    | 1319425     | 2   | O-RING         |     |
| 6    | 1319491     | 12  | O-RING         |     |
| 7    | 8036331     | 4   | O-RING         |     |
| 8    | 1319431     | 2   | SCREW PLUG     |     |
| 9    | 1319506     | 2   | SCREW PLUG     |     |

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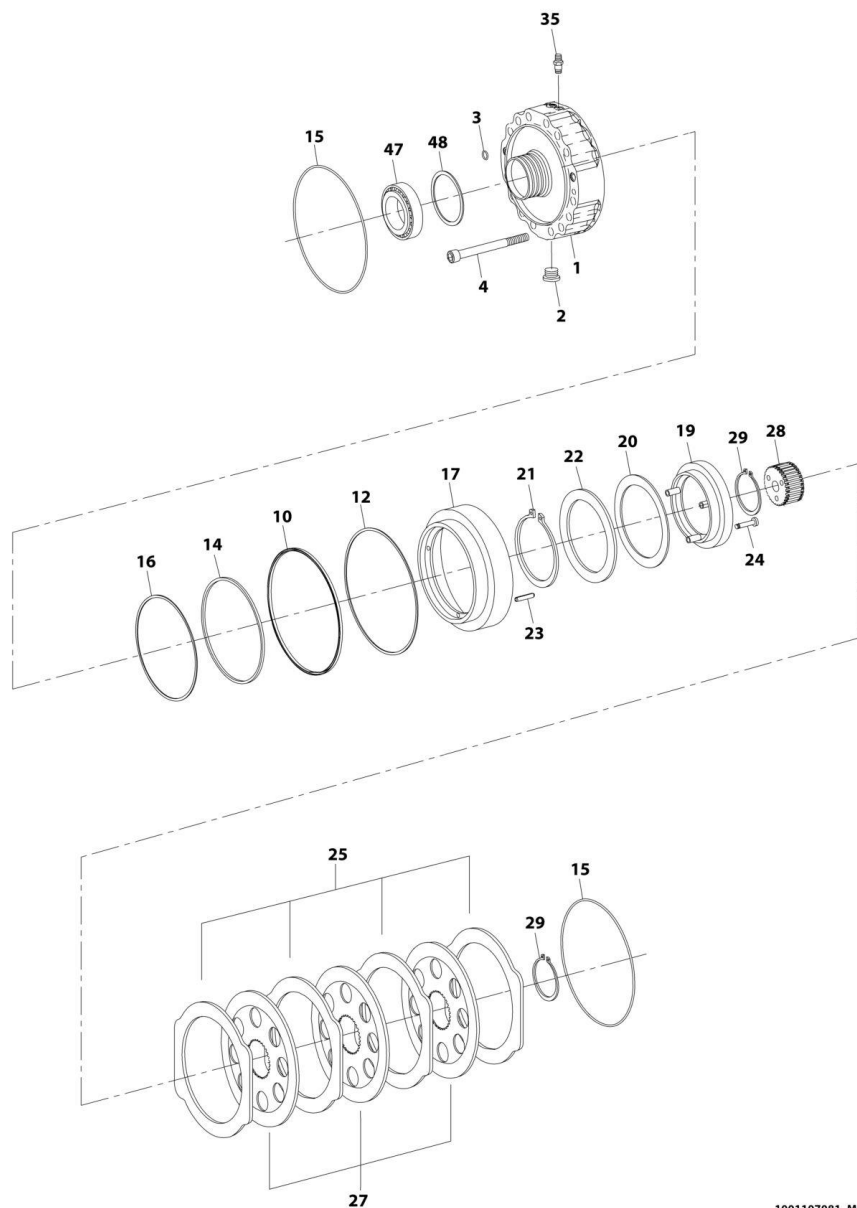
| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                                                                                | REV |
|------|-------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 10   | 1319505     | 2   | VENT VALVE                                                                                                                                                                                 |     |
| 11   | 1319666     | 2   | SCREW PLUG                                                                                                                                                                                 |     |
| 12   | 7027217     | 2   | O-RING                                                                                                                                                                                     |     |
| 13   | 8035936     | NLA | BRAKE HOUSING, (right side), (Prior to Axle SN 679469), (no longer available, see note, order 70020483 for replacement)                                                                    |     |
| 13   | 70020483    | 1   | BRAKE HOUSING, (right side), (Axle SN 679469 to Present)                                                                                                                                   |     |
| 13   | 8035939     | NLA | BRAKE HOUSING, (left side), (Prior to Axle SN 679469), (no longer available, see note, order 70020484 for replacement)                                                                     |     |
| 13   | 70020484    | 1   | BRAKE HOUSING, (left side), (Axle SN 679469 to Present)                                                                                                                                    |     |
| 14   | 1321151     | 2   | SUPPORT RING                                                                                                                                                                               |     |
| 15   | 1321162     | 2   | U-RING                                                                                                                                                                                     |     |
| 16   | 1321163     | 2   | U-RING                                                                                                                                                                                     |     |
| 17   | 1321152     | 2   | SUPPORT RING                                                                                                                                                                               |     |
| 18   | 1319496     | 16  | PIN                                                                                                                                                                                        |     |
| 19   | 1319497     | 16  | COMPRESSION SPRING                                                                                                                                                                         |     |
| 20   | 8036305     | 2   | WASHER                                                                                                                                                                                     |     |
| 21   | 8036304     | 2   | PISTON                                                                                                                                                                                     |     |
| 22   | 1319499     | 16  | CRESCENT RING                                                                                                                                                                              |     |
| 23   | 1319504     | 4   | SNAP RING                                                                                                                                                                                  |     |
| 24   | 10731949    | 2   | RETAINING RING                                                                                                                                                                             |     |
| 25   | 1321174     | 2   | DISC CARRIER, (Prior to Axle SN 824742)                                                                                                                                                    |     |
| 25   | 70020409    | 1   | DISC CARRIER, (Axle SN 824742 to Present)                                                                                                                                                  |     |
| 26   | 1319502     | 16  | O. CLUTCH DISC, 3.0mm, (Prior to Axle SN 679469)                                                                                                                                           |     |
| 26   | 70020486    | 8   | O. CLUTCH DISC, 2.5mm, (Axle SN 679469 to Present)                                                                                                                                         |     |
| 26   | 70020487    | 8   | O. CLUTCH DISC, 3.0mm, (Axle SN 679469 to Present)                                                                                                                                         |     |
| 27   | 1319500     | 4   | O. CLUTCH DISC, 2.0mm, (Prior to Axle SN 679469)                                                                                                                                           |     |
| 27   | 70020485    | 4   | O. CLUTCH DISC, 2.0mm, (Axle SN 679469 to Present)                                                                                                                                         |     |
| 27   | 1319501     | 4   | O. CLUTCH DISC, 2.5mm, (Prior to Axle SN 679469)                                                                                                                                           |     |
| 27   | 70020486    | 4   | O. CLUTCH DISC, 2.5mm, (Axle SN 679469 to Present)                                                                                                                                         |     |
| 27   | 1319502     | 4   | O. CLUTCH DISC, 3.0mm, (Prior to Axle SN 679469)                                                                                                                                           |     |
| 27   | 70020487    | 4   | O. CLUTCH DISC, 3.0mm, (Axle SN 679469 to Present)                                                                                                                                         |     |
| 28   | 1321150     | 6   | I. CLUTCH DISC, (Prior to Axle SN 824742)                                                                                                                                                  |     |
| 28   | 70020408    | 3   | I. CLUTCH DISC, (Axle SN 824742 to present)                                                                                                                                                |     |
| 29   |             | Ref | GEAR SET BEVEL, (See REAR AXLE - INPUT for Breakdown)                                                                                                                                      |     |
| 30   |             | Ref | DIFFERENTIAL ASSY, (See REAR AXLE – DIFFERENTIAL for Breakdown)                                                                                                                            |     |
| N1   | Note        | Ref | <b>PARTS ARE NO LONGER AVAILABLE; ORDER BRAKE HOUSINGS 70020483 &amp; 70020484, QUANTITY REQUIRED OF OUTER DISCS 70020485, 70020486 &amp; 70020487, QUANTITY 2 OF 70020413 END PLATES.</b> |     |





SECTION 5 - DRIVE TRAIN

FIGURE 5-18. REAR AXLE - M-DISC BRAKE (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)



1001107081\_MDISCBRAKE

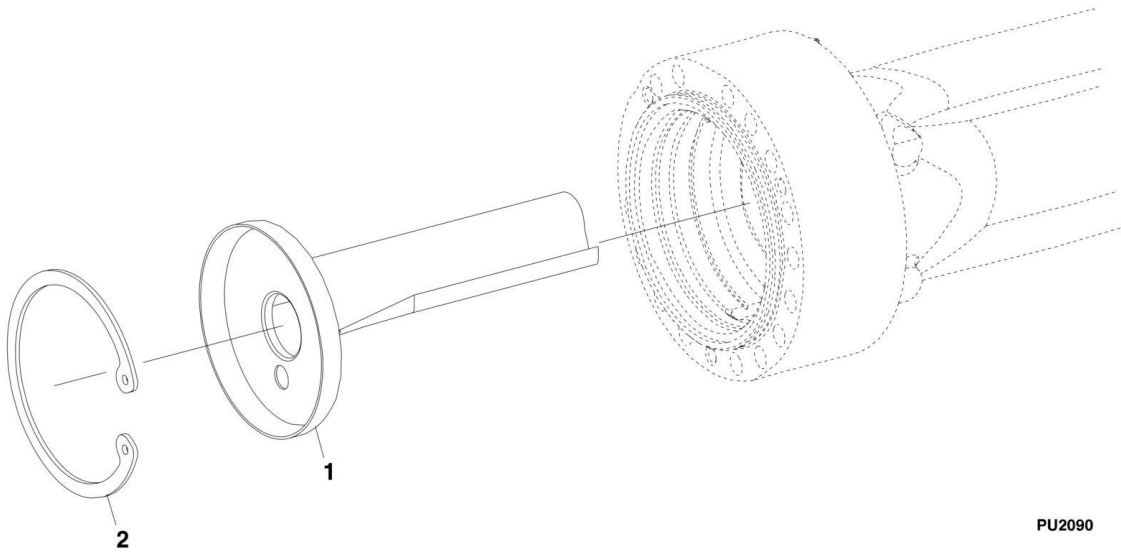
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-18. REAR AXLE - M-DISC BRAKE (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)**

| ITEM | PART NUMBER | QTY | DESCRIPTION     | REV |
|------|-------------|-----|-----------------|-----|
| 1    | 70022788    | 2   | Brake Housing   |     |
| 2    | 70023404    | 2   | Screw Plug      |     |
| 3    | 70022779    | 10  | O-Ring          |     |
| 4    | 70022209    | 6   | Screw M12 x 105 |     |
| 10   | 70022190    | 2   | Piston Packing  |     |
| 12   | 70022193    | 2   | Back-Up Ring    |     |
| 14   | 70022189    | 2   | Piston Packing  |     |
| 15   | 80304462    | 4   | O-Ring          |     |
| 16   | 70022194    | 2   | Back Ring       |     |
| 17   | 70022250    | 2   | Piston          |     |
| 19   | 70023908    | 2   | Ring            |     |
| 20   | 70022183    | 2   | Cup Spring      |     |
| 21   | 70022198    | 2   | Retaining Ring  |     |
| 22   | 70022235    | 2   | Washer          |     |
| 23   | 70022186    | 8   | Slot Pin        |     |
| 24   | 1319214     | 6   | Screw M8 x 40   |     |
| 25   | 70022196    | 8   | O. Clutch Disc  |     |
| 27   | 70022176    | 6   | I. Clutch Disc  |     |
| 28   | 70022253    | 2   | Disc Carrier    |     |
| 29   | 10731949    | 4   | Retaining Ring  |     |
| 35   | 70022171    | 2   | Breather        |     |
| 47   | 8036447     | 2   | ROLLER BEARING  |     |
| 48   | 1319537     | 2   | SHIM, 0.95mm    |     |
| 48   | 1319545     | 2   | SHIM, 1.05mm    |     |
| 48   | 1319539     | 2   | SHIM, 1.15mm    |     |
| 48   | 1319540     | 2   | SHIM, 1.25mm    |     |
| 48   | 1319542     | 2   | SHIM, 1.35mm    |     |

**SECTION 5 - DRIVE TRAIN**

**FIGURE 5-19. REAR AXLE - BRAKE**



PU2090

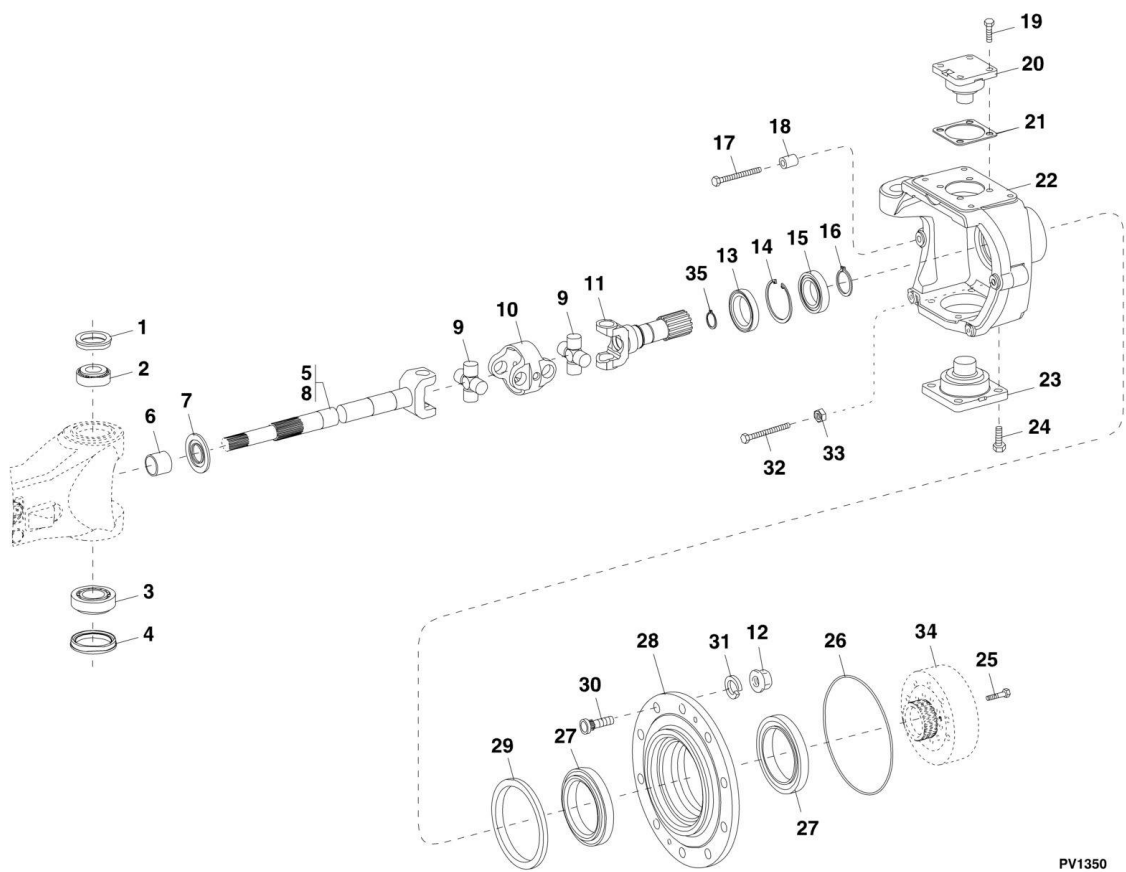
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-19. REAR AXLE - BRAKE**

| ITEM | PART NUMBER | QTY | DESCRIPTION    | REV |
|------|-------------|-----|----------------|-----|
| 1    | 1321172     | 2   | OIL DAM        |     |
| 2    | 1321178     | 2   | RETAINING RING |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-20. REAR AXLE - JOINT HOUSING (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)



PV1350

## SECTION 5 - DRIVE TRAIN

**FIGURE 5-20. REAR AXLE - JOINT HOUSING (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                                                        | REV |
|------|-------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 1    | 8036338     | 2   | MULTI SEAL RING                                                                                                                                                    |     |
| 2    | 1319444     | 2   | ROLLER BEARING                                                                                                                                                     |     |
| 3    | 1319445     | 2   | ROLLER BEARING                                                                                                                                                     |     |
| 4    | 1319447     | 2   | SHAFT SEAL                                                                                                                                                         |     |
| 5    | 7028979     | NLA | DRIVE SHAFT UNIVERSAL COUPLING, (Prior to Axle SN 720124), (not maintenance free), (no longer available, use 70022052 for replacement), (includes items 6 thru 11) |     |
| 5    | 70022052    | 2   | DRIVE SHAFT UNIVERSAL COUPLING, (Axle SN 720125 to Present), (maintenance free), (includes items 6 thru 11)                                                        |     |
| 6    | 8035973     | 2   | BUSHING                                                                                                                                                            |     |
| 7    | 8035996     | 2   | SCREEN SHEET                                                                                                                                                       |     |
| 8    | 8035995     | 2   | JOINT COUPLING FORK                                                                                                                                                |     |
| 9    | 8035993     | 2   | JOINT CROSS, (Prior to Axle SN 720124)                                                                                                                             |     |
| 9    | 70021554    | 2   | JOINT CROSS, (Axle SN 720125 to Present)                                                                                                                           |     |
| 10   | 8035992     | 2   | CENTRAL PIECE, (Prior to Axle SN 720124)                                                                                                                           |     |
| 10   | 70021553    | 2   | CENTRAL PIECE, (Axle SN 720125 to Present)                                                                                                                         |     |
| 11   | 8035994     | 2   | JOINT FORK, (Prior to Axle SN 720124)                                                                                                                              |     |
| 11   | 8035994     | 2   | JOINT FORK, (Axle SN 720125 to Present)                                                                                                                            |     |
| 12   |             | Ref | LUG NUT, (See DRIVE TRAIN COMPONENTS for Breakdown)                                                                                                                |     |
| 13   | 7028977     | 2   | SHAFT SEAL, (when installing item 13 it is recommended by vendor to use Driver Handle 7029740 and Seal Driver 7029738)                                             |     |
| 14   | 1319210     | 2   | RETAINING RING                                                                                                                                                     |     |
| 15   | 1321157     | 2   | BALL BEARING                                                                                                                                                       |     |
| 16   | 80304405    | 2   | RETAINING RING                                                                                                                                                     |     |
| 17   | 1319476     | 2   | STOP SCREW                                                                                                                                                         |     |
| 18   | 7026664     | 2   | SPACER TUBE                                                                                                                                                        |     |
| 19   | 1319463     | 8   | HEX SCREW                                                                                                                                                          |     |
| 20   | 1319461     | 2   | BEARING PIN                                                                                                                                                        |     |
| 21   | 1319448     | AR  | SHIM, 0.2mm                                                                                                                                                        |     |
| 21   | 1319449     | AR  | SHIM, 0.3mm                                                                                                                                                        |     |
| 21   | 1319450     | AR  | SHIM, 0.4mm                                                                                                                                                        |     |
| 21   | 1319451     | AR  | SHIM, 0.6mm                                                                                                                                                        |     |
| 21   | 1319452     | AR  | SHIM, 0.8mm                                                                                                                                                        |     |
| 21   | 1319453     | AR  | SHIM, 1.0mm                                                                                                                                                        |     |
| 21   | 1319454     | AR  | SHIM, 1.2mm                                                                                                                                                        |     |
| 21   | 1319455     | AR  | SHIM, 1.4mm                                                                                                                                                        |     |
| 21   | 1319456     | AR  | SHIM, 1.6mm                                                                                                                                                        |     |
| 21   | 1319457     | AR  | SHIM, 1.8mm                                                                                                                                                        |     |
| 21   | 1319458     | AR  | SHIM, 2.0mm                                                                                                                                                        |     |
| 21   | 1319459     | AR  | SHIM, 0.7mm                                                                                                                                                        |     |
| 21   | 1319460     | AR  | SHIM, 0.5mm                                                                                                                                                        |     |
| 22   | 1321245     | 1   | JOINT HOUSING, (left side)                                                                                                                                         |     |
| 22   | 1321246     | 1   | JOINT HOUSING, (right side)                                                                                                                                        |     |
| 23   | 1319462     | 2   | BEARING PIN                                                                                                                                                        |     |
| 24   | 1319464     | 8   | HEX SCREW                                                                                                                                                          |     |
| 25   | 8035997     | 20  | HEX SCREW                                                                                                                                                          |     |
| 26   | 1321155     | 2   | O-RING                                                                                                                                                             |     |
| 27   | 1319472     | 4   | ROLLER BEARING                                                                                                                                                     |     |
| 28   | 1321239     | 2   | HUB                                                                                                                                                                |     |
| 29   | 80304173    | 2   | CASSETTE RING                                                                                                                                                      |     |

## SECTION 5 - DRIVE TRAIN

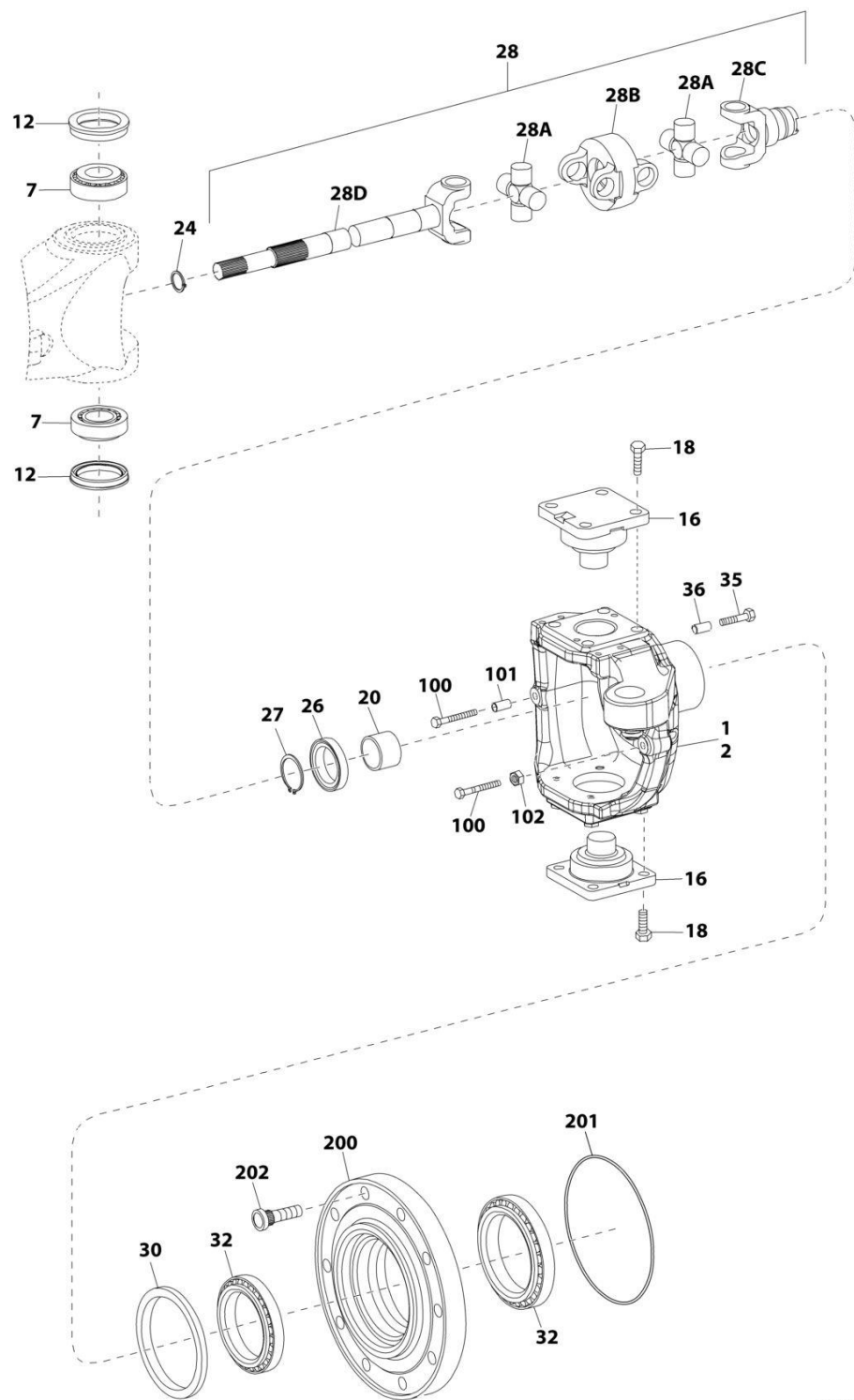
| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                                                                         | REV |
|------|-------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 30   | 8036434     | 20  | WHEEL BOLT                                                                                                                                                                          |     |
| 31   |             | Ref | WASHER, (See DRIVE TRAIN COMPONENTS for Breakdown)                                                                                                                                  |     |
| 32   | 1319475     | 2   | STOP SCREW                                                                                                                                                                          |     |
| 33   | 1319477     | 2   | HEX NUT                                                                                                                                                                             |     |
| 34   |             | Ref | RING GEAR, (See REAR AXLE - PLANETARY DRIVE for Breakdown)                                                                                                                          |     |
| 35   | 1321226     | 2   | RETAINING RING                                                                                                                                                                      |     |
| N1   | Note        | Ref | <b>NOTE: IF REPLACING BOTH 8035992 CENTRAL PIECE 8035993 JOINT CROSS (NOT MAINTENANCE FREE) CAN REPLACE WITH 70021553 CENTRAL PIECE AND 70021554 JOINT CROSS (MAINTENANCE FREE)</b> |     |





SECTION 5 - DRIVE TRAIN

FIGURE 5-21. REAR AXLE - JOINT HOUSING (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)



ART\_1001107081\_JOINTHOUSING

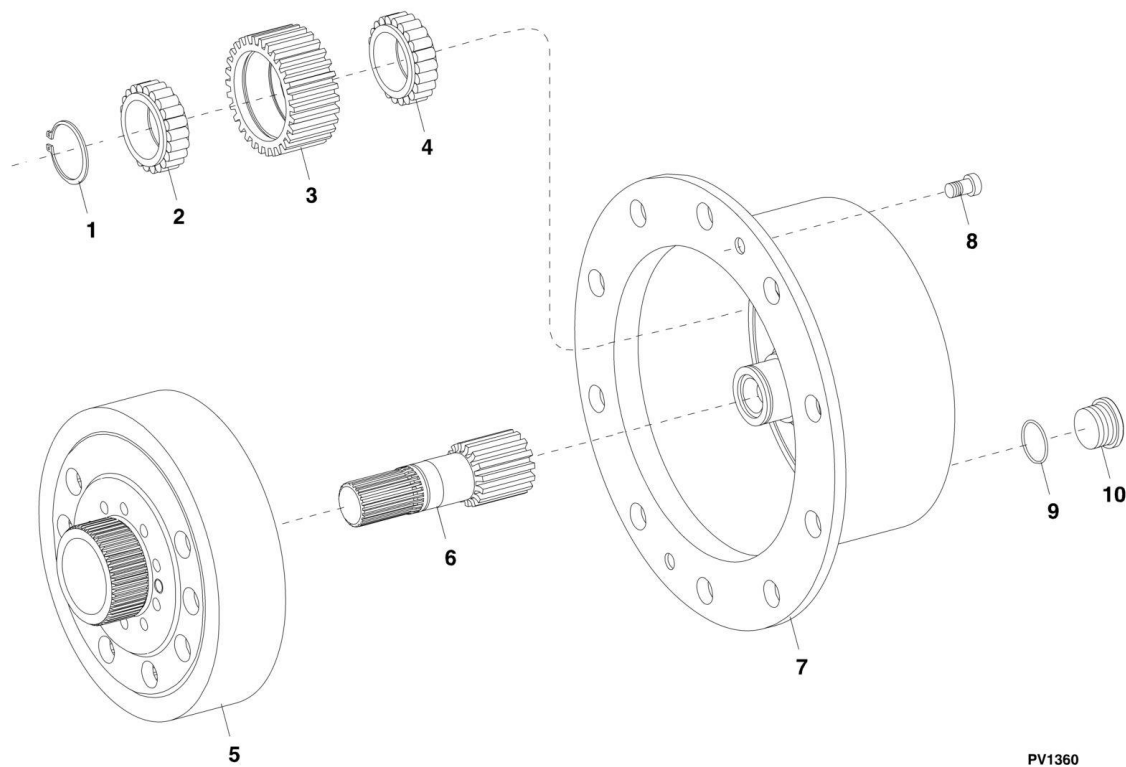
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-21. REAR AXLE - JOINT HOUSING (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                             | REV |
|------|-------------|-----|-----------------------------------------|-----|
| 1    | 70022237    | 1   | Housing, Joint (right side)             |     |
| 2    | 70022238    | 1   | Housing, Joint (left side)              |     |
| 7    | 70022223    | 4   | Bearing, Roller                         |     |
| 12   | 1319447     | 4   | Seal, Shaft                             |     |
| 16   | 70022240    | 4   | Pin, Bearing                            |     |
| 18   | 1319464     | 16  | Screw, M16X40                           |     |
| 20   | 70022179    | 2   | Bushing                                 |     |
| 24   | 10731789    | 2   | Ring, Retaining                         |     |
| 26   | 70022218    | 2   | Seal, Shaft                             |     |
| 27   | 1321226     | 2   | Ring, Retaining                         |     |
| 28   | 70022781    | 2   | Universal Coupling Drive Shaft Assembly |     |
| 28A  | 70021554    | 2   | Cross, Joint                            |     |
| 28B  | 70022782    | 1   | Central Piece                           |     |
| 28C  | 70022187    | 1   | Shaft, Fork                             |     |
| 28D  | 70022188    | 1   | Shaft, Fork                             |     |
| 30   | 80304173    | 2   | Seal, Shaft                             |     |
| 32   | 1319472     | 4   | Bearing, Roller                         |     |
| 35   | 70023405    | 16  | Screw M14 x 70                          |     |
| 36   | 70022234    | 16  | Bushing, Centering                      |     |
| 100  | 8036330     | 4   | Screw M14 x 1-1/2                       |     |
| 101  | 70022276    | 2   | Tube, Spacer                            |     |
| 102  | 1319477     | 2   | Nut                                     |     |
| 200  | 70024613    | 2   | Hub                                     |     |
| 201  | 70022203    | 2   | O-Ring                                  |     |
| 202  | 70022230    | 20  | Bolt M22 x 1-1/2                        |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-22. REAR AXLE - PLANETARY DRIVE (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)



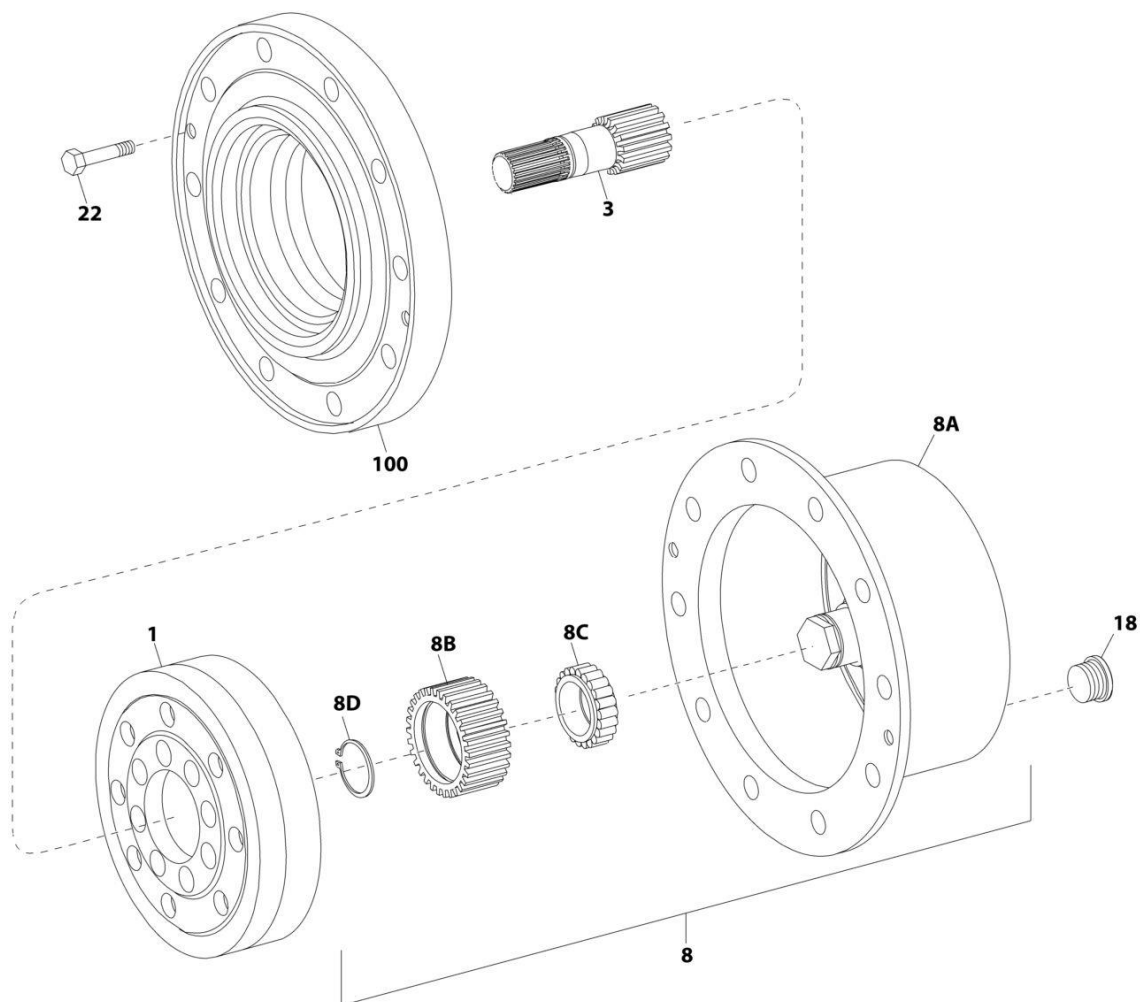
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-22. REAR AXLE - PLANETARY DRIVE (PRIOR TO SN 0160051140, EXCLUDING 0160050734 AND 0160050735)**

| ITEM | PART NUMBER | QTY | DESCRIPTION        | REV |
|------|-------------|-----|--------------------|-----|
| 1    | 1319485     | 8   | SNAP RING          |     |
| 2    | 1319484     | 8   | INNER RING BEARING |     |
| 3    | 1321231     | 8   | PLANETARY GEAR     |     |
| 4    | 1319483     | 8   | INNER RING BEARING |     |
| 5    | 1321247     | 2   | RING GEAR          |     |
| 6    | 1321242     | 2   | SUN GEAR SHAFT     |     |
| 7    | 8036414     | 2   | PLANETARY CARRIER  |     |
| 8    | 8035977     | 4   | CAPSCREW           |     |
| 9    | 8036331     | 2   | O-RING             |     |
| 10   | 1319506     | 2   | SCREW PLUG         |     |

## SECTION 5 - DRIVE TRAIN

**FIGURE 5-23. REAR AXLE - PLANETARY DRIVE (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)**



ART\_1001107081\_PLANETARYDRIVE

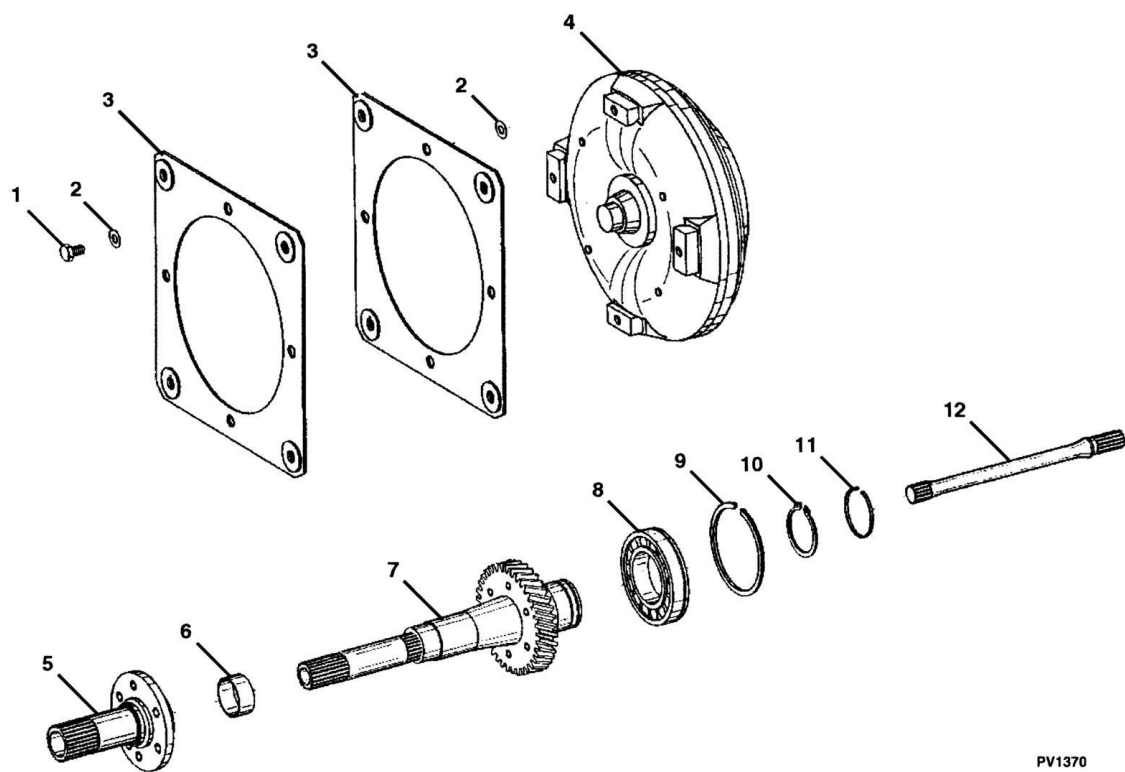
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-23. REAR AXLE - PLANETARY DRIVE (SN 0160051140 TO PRESENT, INCLUDING 0160050734 AND 0160050735)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                        | REV |
|------|-------------|-----|------------------------------------|-----|
| 1    | 70022242    | 2   | Gear, Ring                         |     |
| 3    | 70022784    | 2   | Shaft, Gear                        |     |
| 8    | 70022281    | 2   | Planetary Carrier Assembly         |     |
| 8A   | 70022283    | 1   | Carrier, Planetary                 |     |
| 8B   | 70022243    | 1   | Gear, Planetary                    |     |
| 8C   | 70024614    | 1   | Bearing, Roller                    |     |
| 8D   | 70022197    | 4   | Ring, Retaining                    |     |
| 18   | 70023404    | 2   | Plug, Screw                        |     |
| 22   | 70022207    | 4   | Screw, M12 x 30                    |     |
| 100  | 70024613    | Ref | Hub (See REAR AXLE, JOINT HOUSING) |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-24. ZF TRANSMISSION - CONVERTER AND INPUT





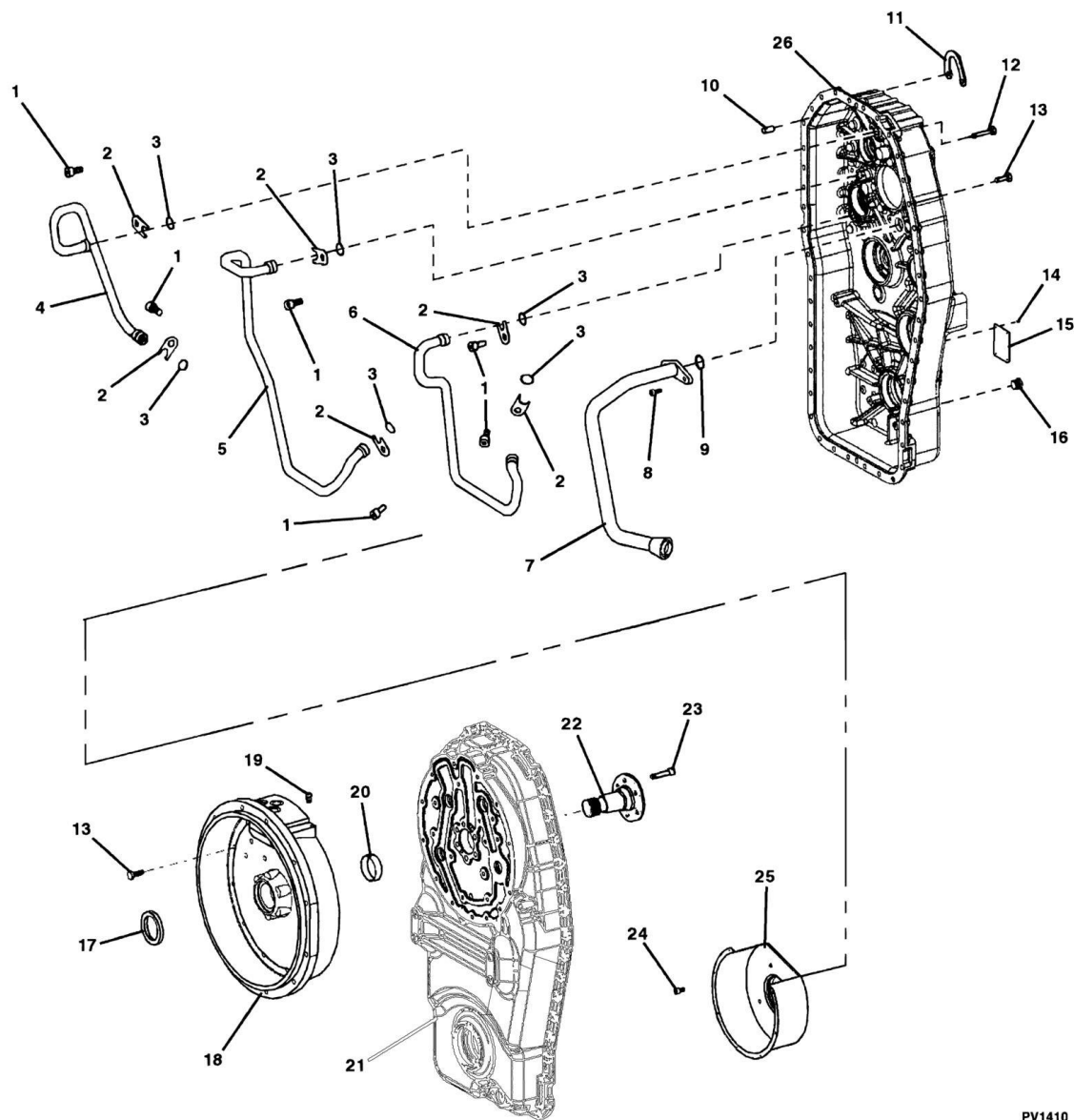
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-24. ZF TRANSMISSION - CONVERTER AND INPUT**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                     | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------------------------------------|-----|
|      | 4540013     | Ref | ZF TRANSMISSION, (See ZF TRANSMISSION - CONVERTER AND INPUT thru ZF TRANSMISSION - OIL PUMP, FILTER AND DIPSTICK for Breakdown) | C   |
| 1    | 7026744     | 4   | HEX SCREW                                                                                                                       |     |
| 2    | 7026745     | 8   | WASHER                                                                                                                          |     |
| 3    | 1319229     | 2   | DIAPHRAGM                                                                                                                       |     |
| 4    | 8036022     | 1   | CONVERTER                                                                                                                       |     |
| 5    | 1319557     | 1   | STATOR SHAFT                                                                                                                    |     |
| 6    | 1319558     | 1   | BEARING BUSH                                                                                                                    |     |
| 7    | 8036023     | 1   | TURBINE SHAFT                                                                                                                   |     |
| 8    | 1319563     | 1   | BALL BEARING                                                                                                                    |     |
| 9    | 80304405    | 1   | RETAINING RING                                                                                                                  |     |
| 10   | 10731913    | 1   | SNAP RING                                                                                                                       |     |
| 11   | 7026749     | 1   | PISTON RING                                                                                                                     |     |
| 12   | 1319566     | 1   | CENTRAL SHAFT                                                                                                                   |     |

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FIGURE 5-25. ZF TRANSMISSION - GEARBOX HOUSING



PV1410

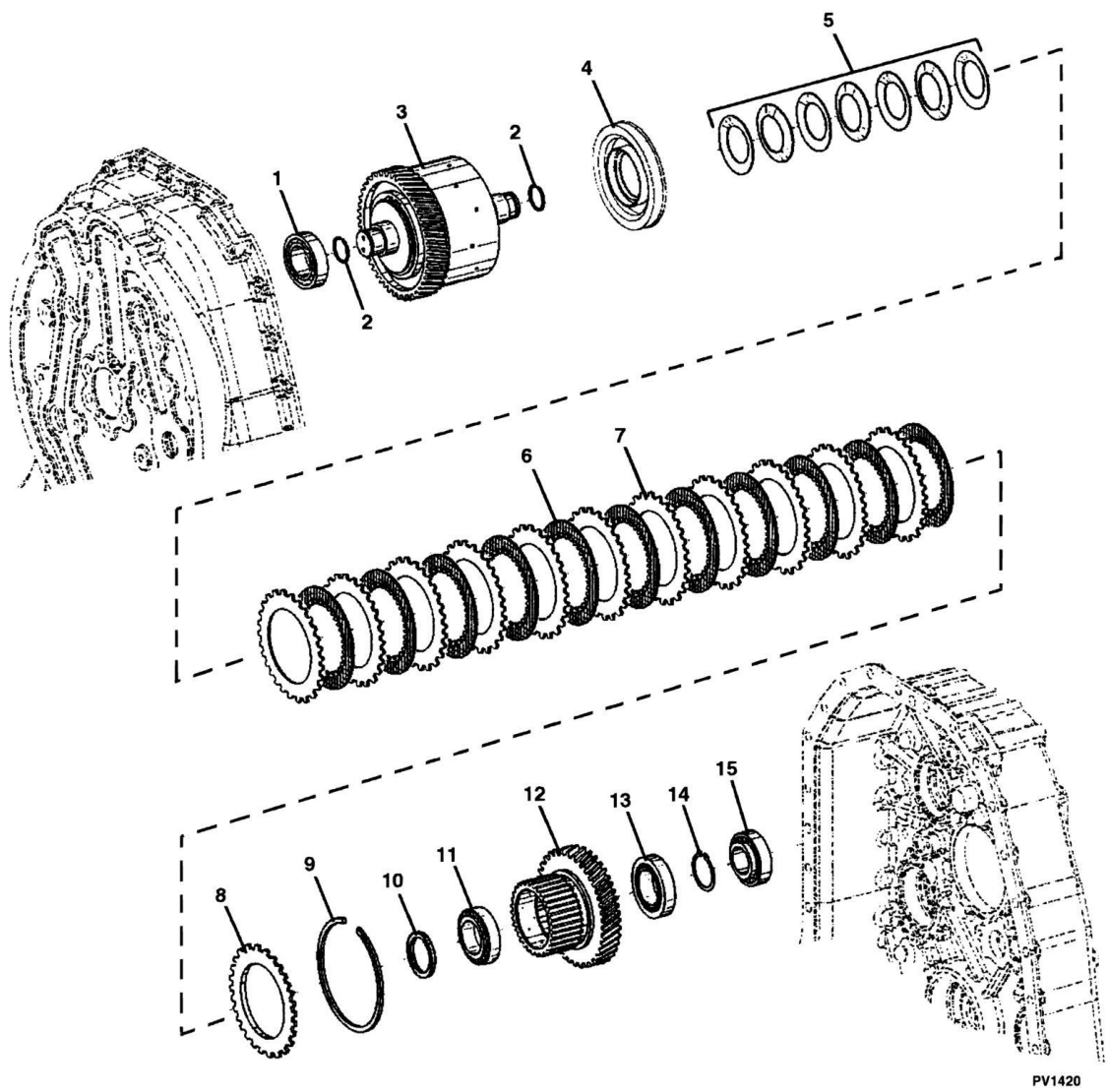
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-25. ZF TRANSMISSION - GEARBOX HOUSING**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                             | REV |
|------|-------------|-----|-------------------------------------------------------------------------|-----|
| 1    | 1319585     | 11  | CAPSCREW                                                                |     |
| 2    | 1319584     | 6   | FIXING PLATE                                                            |     |
| 3    | 1319583     | 6   | O-RING                                                                  |     |
| 4    | 1319586     | 1   | PIPE                                                                    |     |
| 5    | 1319587     | 1   | PIPE                                                                    |     |
| 6    | 8036027     | 1   | PIPE                                                                    |     |
| 7    | 8036026     | 1   | SUCTION TUBE                                                            |     |
| 8    | 1319582     | 2   | CAPSCREW                                                                |     |
| 9    | 1319581     | 1   | O-RING                                                                  |     |
| 10   | 1319571     | 2   | CYLINDRICAL PIN                                                         |     |
| 11   | 1319590     | 1   | BRACKET                                                                 |     |
| 12   | 7026794     | 6   | HEX SCREW                                                               |     |
| 13   | 80304394    | 59  | HEX SCREW                                                               |     |
| 14   | 1319573     | 1   | SCREW PLUG                                                              |     |
| 15   | N.S.S.      | 1   | TYPE PLATE                                                              |     |
| 16   | 1319578     | 1   | SCREW PLUG                                                              |     |
| 17   | 1319576     | 1   | SHAFT SEAL                                                              |     |
| 18   | 1319574     | 1   | CONVERTER BELL                                                          |     |
| 19   | 10731744    | 1   | BREATHER                                                                |     |
| 20   | 1319575     | 1   | BEARING BUSH                                                            |     |
| 21   | 8036024     | 1   | HOUSING                                                                 |     |
| 22   |             | Ref | STATOR SHAFT, (See ZF TRANSMISSION - CONVERTER AND INPUT for Breakdown) |     |
| 23   | 1319577     | 6   | CAPSCREW                                                                |     |
| 24   | 1319585     | 11  | CAPSCREW                                                                |     |
| 25   | 8036028     | 1   | SCREEN SHAFT                                                            |     |
| 26   | 8036025     | 1   | HOUSING                                                                 |     |

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FIGURE 5-26. ZF TRANSMISSION - REVERSING GEAR KV



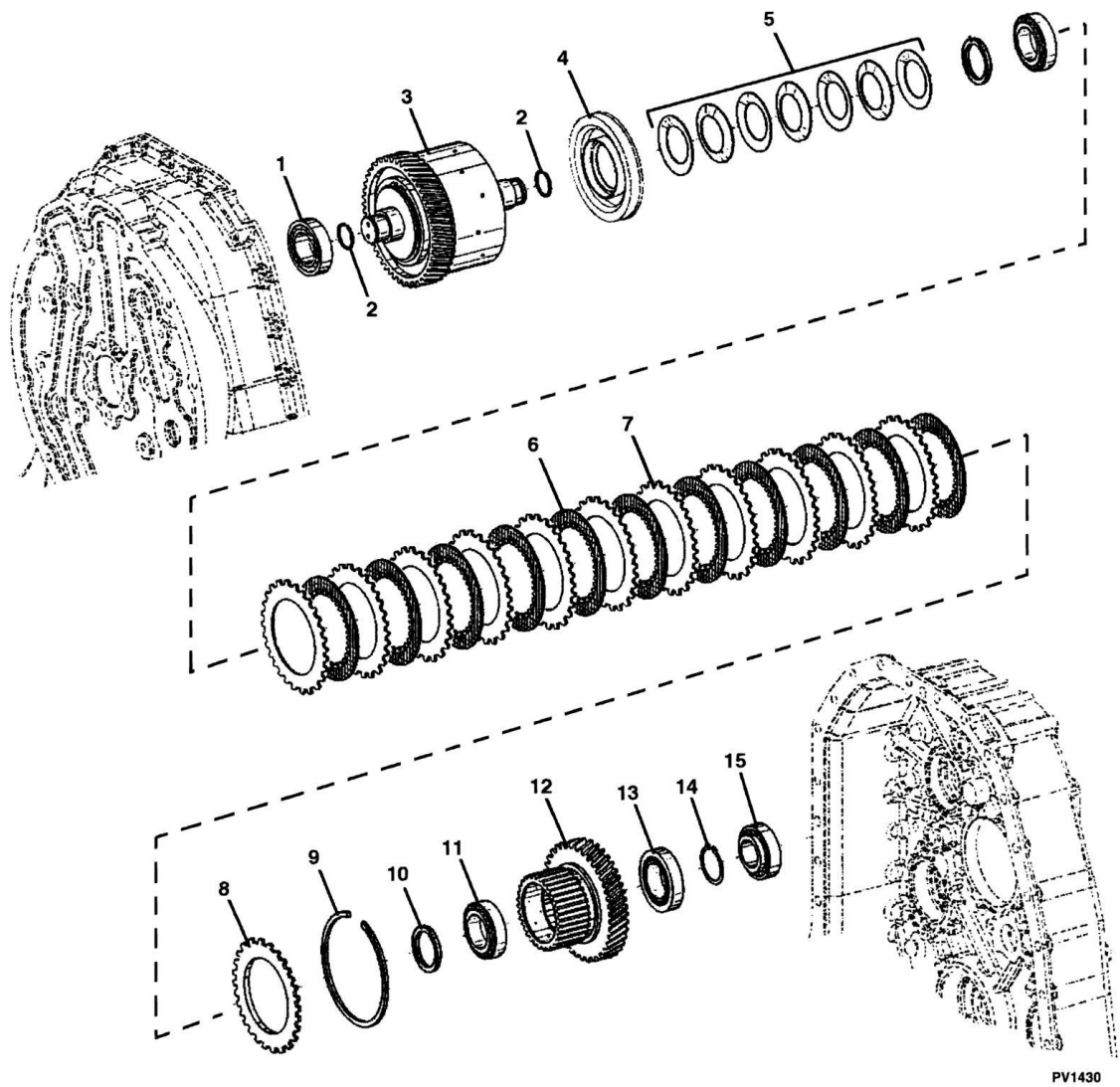
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-26. ZF TRANSMISSION - REVERSING GEAR KV**

| ITEM | PART NUMBER | QTY | DESCRIPTION          | REV |
|------|-------------|-----|----------------------|-----|
| 1    | 1319615     | 1   | ROLLER BEARING       |     |
| 2    | 7026761     | 2   | PISTON RING          |     |
| 3    | 1319637     | 1   | COUPLING             |     |
| 4    | 8036575     | 1   | PISTON               |     |
| 5    | 1319595     | 7   | CUP SPRING           |     |
| 6    | 7026758     | 11  | LIN. CLUTCH DISC     |     |
| 7    | 7026759     | 11  | O. CLUTCH DISC       |     |
| 8    | 7026760     | 1   | END SHIM             |     |
| 9    | 1319600     | AR  | SNAP RING, 3.5       |     |
| 9    | 1319601     | AR  | SNAP RING, 3.5       |     |
| 9    | 1319602     | AR  | SNAP RING, 3.0       |     |
| 9    | 1319603     | AR  | SNAP RING, 2.5       |     |
| 9    | 1319604     | AR  | SNAP RING, 2.0       |     |
| 10   | 1319617     | 1   | SUPPORT SHIM         |     |
| 11   | 1319618     | 1   | ROLLER BEARING       |     |
| 12   | 1319638     | 1   | DISC CARRIER         |     |
| 13   | 1319620     | 1   | ROLLER BEARING       |     |
| 14   | 1319621     | AR  | RETAINING RING, 3.20 |     |
| 14   | 1319622     | AR  | RETAINING RING, 3.10 |     |
| 14   | 1319623     | AR  | RETAINING RING, 3.00 |     |
| 14   | 1319624     | AR  | RETAINING RING, 2.90 |     |
| 14   | 1319625     | AR  | RETAINING RING, 2.80 |     |
| 14   | 1319626     | AR  | RETAINING RING, 2.70 |     |
| 14   | 1319627     | AR  | RETAINING RING, 2.60 |     |
| 15   | 1319636     | 1   | ROLLER BEARING       |     |

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FIGURE 5-27. ZF TRANSMISSION - REVERSING GEAR KR



PV1430

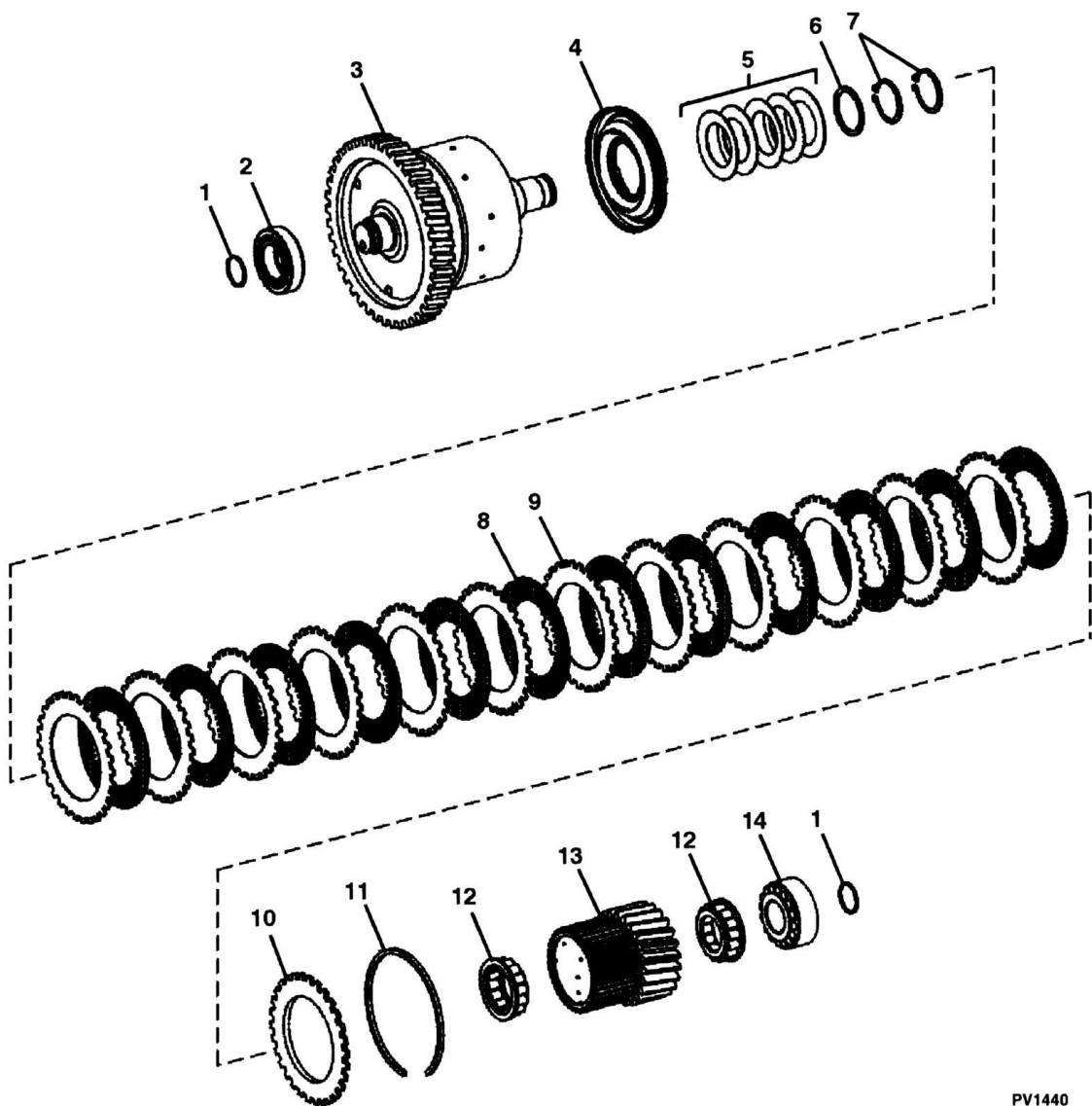
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-27. ZF TRANSMISSION - REVERSING GEAR KR**

| ITEM | PART NUMBER | QTY | DESCRIPTION          | REV |
|------|-------------|-----|----------------------|-----|
| 1    | 1319608     | 1   | ROLLER BEARING       |     |
| 2    | 7026761     | 2   | PISTON RING          |     |
| 3    | 1319639     | 1   | COUPLING             |     |
| 4    | 8036575     | 1   | PISTON               |     |
| 5    | 1319595     | 7   | CUP SPRING           |     |
| 6    | 7026758     | 11  | LIN. CLUTCH DISC     |     |
| 7    | 7026759     | 11  | O. CLUTCH DISC       |     |
| 8    | 7026760     | 1   | END SHIM             |     |
| 9    | 1319600     | AR  | SNAP RING, 3.5       |     |
| 9    | 1319601     | AR  | SNAP RING, 3.5       |     |
| 9    | 1319602     | AR  | SNAP RING, 3.0       |     |
| 9    | 1319603     | AR  | SNAP RING, 2.5       |     |
| 9    | 1319604     | AR  | SNAP RING, 2.0       |     |
| 10   | 1319617     | 1   | SUPPORT SHIM         |     |
| 11   | 1319618     | 1   | ROLLER BEARING       |     |
| 12   | 1319638     | 1   | DISC CARRIER         |     |
| 13   | 1319620     | 1   | ROLLER BEARING       |     |
| 14   | 1319621     | AR  | RETAINING RING, 3.20 |     |
| 14   | 1319622     | AR  | RETAINING RING, 3.10 |     |
| 14   | 1319623     | AR  | RETAINING RING, 3.00 |     |
| 14   | 1319624     | AR  | RETAINING RING, 2.90 |     |
| 14   | 1319625     | AR  | RETAINING RING, 2.80 |     |
| 14   | 1319626     | AR  | RETAINING RING, 2.70 |     |
| 14   | 1319627     | AR  | RETAINING RING, 2.60 |     |
| 15   | 1319636     | 1   | ROLLER BEARING       |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-28. ZF TRANSMISSION - COUPLING GROUP K1



PV1440



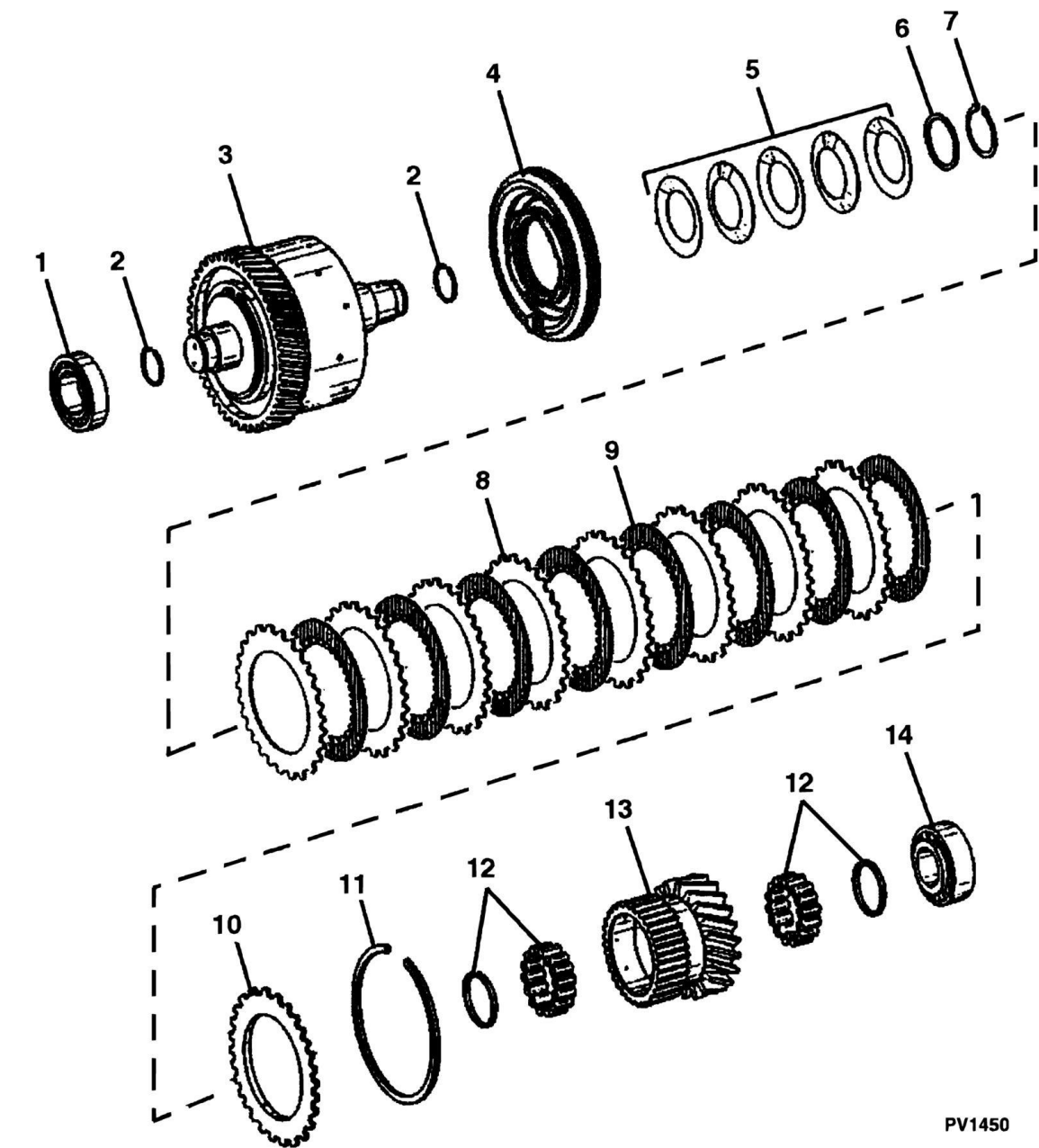
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-28. ZF TRANSMISSION - COUPLING GROUP K1**

| ITEM | PART NUMBER | QTY | DESCRIPTION      | REV |
|------|-------------|-----|------------------|-----|
| 1    | 7026761     | 2   | PISTON RING      |     |
| 2    | 1319608     | 1   | ROLLER BEARING   |     |
| 3    | 1319591     | 1   | COUPLING         |     |
| 4    | 8036575     | 1   | PISTON           |     |
| 5    | 1319595     | 5   | CUP SPRING       |     |
| 6    | 1319596     | 1   | SHIM             |     |
| 7    | 10731845    | 2   | RETAINING RING   |     |
| 8    | 7026758     | 12  | LIN. CLUTCH DISC |     |
| 9    | 7026759     | 12  | O. CLUTCH DISC   |     |
| 10   | 7026760     | 1   | END SHIM         |     |
| 11   | 1319600     | AR  | SNAP RING, 3.5   |     |
| 11   | 1319601     | AR  | SNAP RING, 3.5   |     |
| 11   | 1319602     | AR  | SNAP RING, 3.0   |     |
| 11   | 1319603     | AR  | SNAP RING, 2.5   |     |
| 11   | 1319604     | AR  | SNAP RING, 2.0   |     |
| 12   | 1319606     | 2   | ROLLER CAGE      |     |
| 13   | 1319607     | 1   | DISC CARRIER     |     |
| 14   | 7029532     | 1   | OUTER RING       |     |
| 14   | 7029533     | 1   | INNER RING       |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-29. ZF TRANSMISSION - COUPLING GROUP K2



PV1450

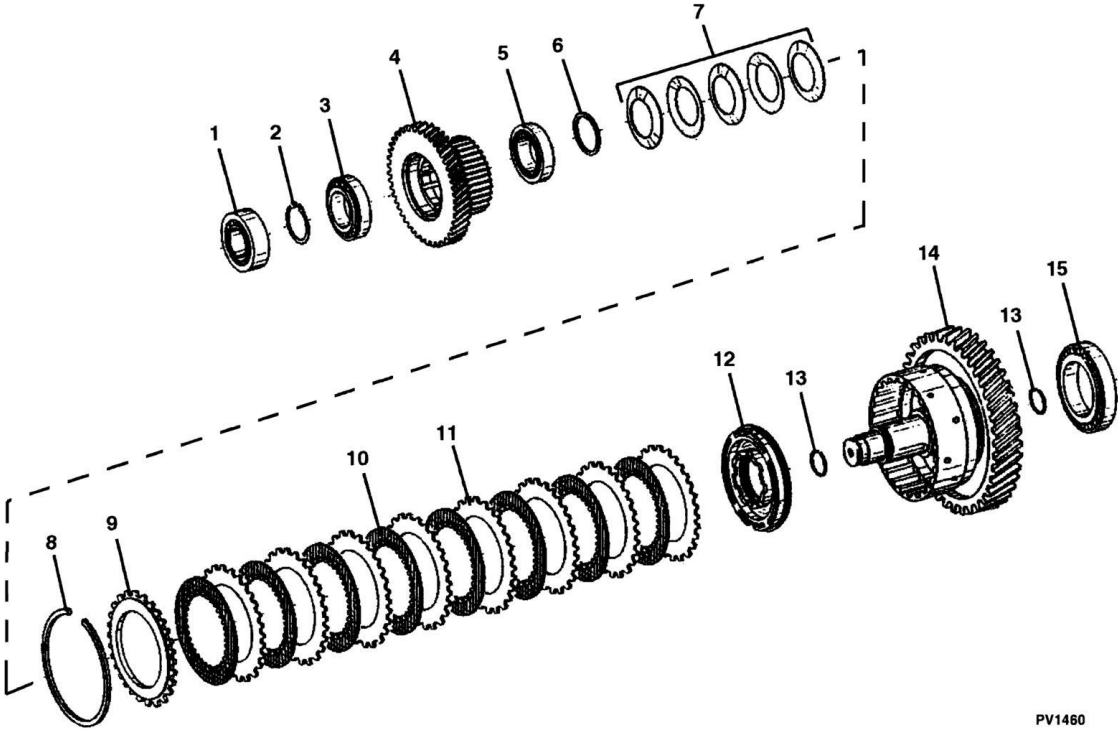
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-29. ZF TRANSMISSION - COUPLING GROUP K2**

| ITEM | PART NUMBER | QTY | DESCRIPTION      | REV |
|------|-------------|-----|------------------|-----|
| 1    | 1319615     | 1   | ROLLER BEARING   |     |
| 2    | 7026761     | 2   | PISTON RING      |     |
| 3    | 1319613     | 1   | COUPLING         |     |
| 4    | 8036575     | 1   | PISTON           |     |
| 5    | 1319595     | 5   | CUP SPRING       |     |
| 6    | 1319596     | 1   | SHIM             |     |
| 7    | 10731845    | 2   | RETAINING RING   |     |
| 8    | 7026759     | 8   | O. CLUTCH DISC   |     |
| 9    | 7026758     | 8   | LIN. CLUTCH DISC |     |
| 10   | 7026760     | 1   | END SHIM         |     |
| 11   | 1319600     | AR  | SNAP RING, 3.5   |     |
| 11   | 1319601     | AR  | SNAP RING, 3.5   |     |
| 11   | 1319602     | AR  | SNAP RING, 3.0   |     |
| 11   | 1319603     | AR  | SNAP RING, 2.5   |     |
| 11   | 1319604     | AR  | SNAP RING, 2.0   |     |
| 12   | 1319606     | 2   | ROLLER CAGE      |     |
| 13   | 1319614     | 1   | DISC CARRIER     |     |
| 14   | 7029532     | 1   | OUTER RING       |     |
| 14   | 7029533     | 1   | INNER RING       |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-30. ZF TRANSMISSION - COUPLING GROUP K3



PV1460

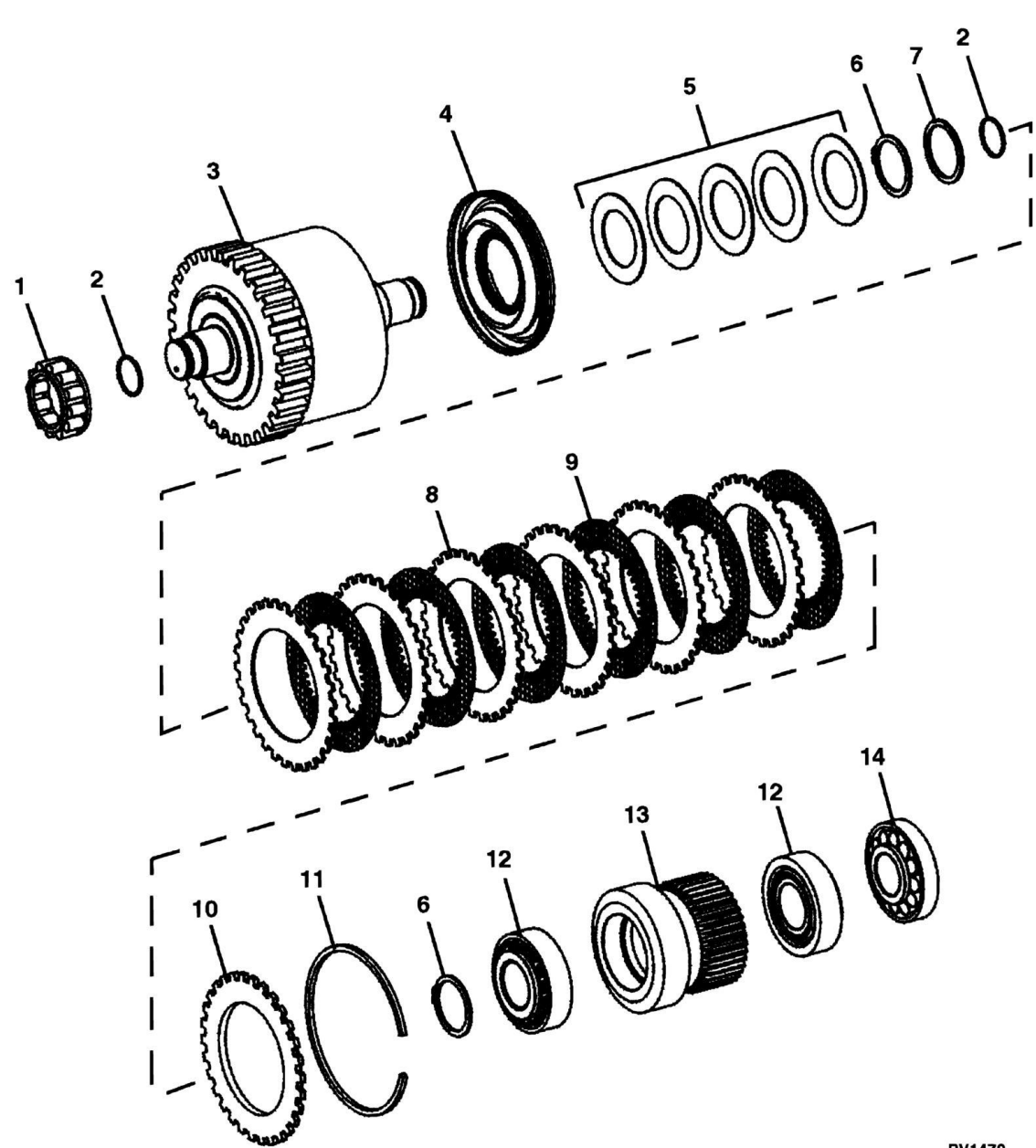
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-30. ZF TRANSMISSION - COUPLING GROUP K3**

| ITEM | PART NUMBER | QTY | DESCRIPTION          | REV |
|------|-------------|-----|----------------------|-----|
| 1    | 7029532     | 1   | OUTER RING           |     |
| 1    | 7029533     | 1   | INNER RING           |     |
| 2    | 1319621     | AR  | RETAINING RING, 3.20 |     |
| 2    | 1319622     | AR  | RETAINING RING, 3.10 |     |
| 2    | 1319623     | AR  | RETAINING RING, 3.00 |     |
| 2    | 1319624     | AR  | RETAINING RING, 2.90 |     |
| 2    | 1319625     | AR  | RETAINING RING, 2.80 |     |
| 2    | 1319626     | AR  | RETAINING RING, 2.70 |     |
| 2    | 1319627     | AR  | RETAINING RING, 2.60 |     |
| 3    | 1319620     | 1   | ROLLER BEARING       |     |
| 4    | 1319619     | 1   | DISC CARRIER         |     |
| 5    | 1319618     | 1   | ROLLER BEARING       |     |
| 6    | 1319617     | 1   | SUPPORT SHIM         |     |
| 7    | 1319595     | 5   | CUP SPRING           |     |
| 8    | 1319600     | AR  | SNAP RING, 3.5       |     |
| 8    | 1319601     | AR  | SNAP RING, 3.5       |     |
| 8    | 1319602     | AR  | SNAP RING, 3.0       |     |
| 8    | 1319603     | AR  | SNAP RING, 2.5       |     |
| 8    | 1319604     | AR  | SNAP RING, 2.0       |     |
| 9    | 7026760     | 1   | END SHIM             |     |
| 10   | 7026758     | 8   | LIN. CLUTCH DISC     |     |
| 11   | 7026759     | 8   | O. CLUTCH DISC       |     |
| 12   | 8036575     | 1   | PISTON               |     |
| 13   | 7026761     | 2   | PISTON RING          |     |
| 14   | 1319616     | 1   | COUPLING             |     |
| 15   | 1319633     | 1   | ROLLER BEARING       |     |

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FIGURE 5-31. ZF TRANSMISSION - COUPLING GROUP K4



PV1470

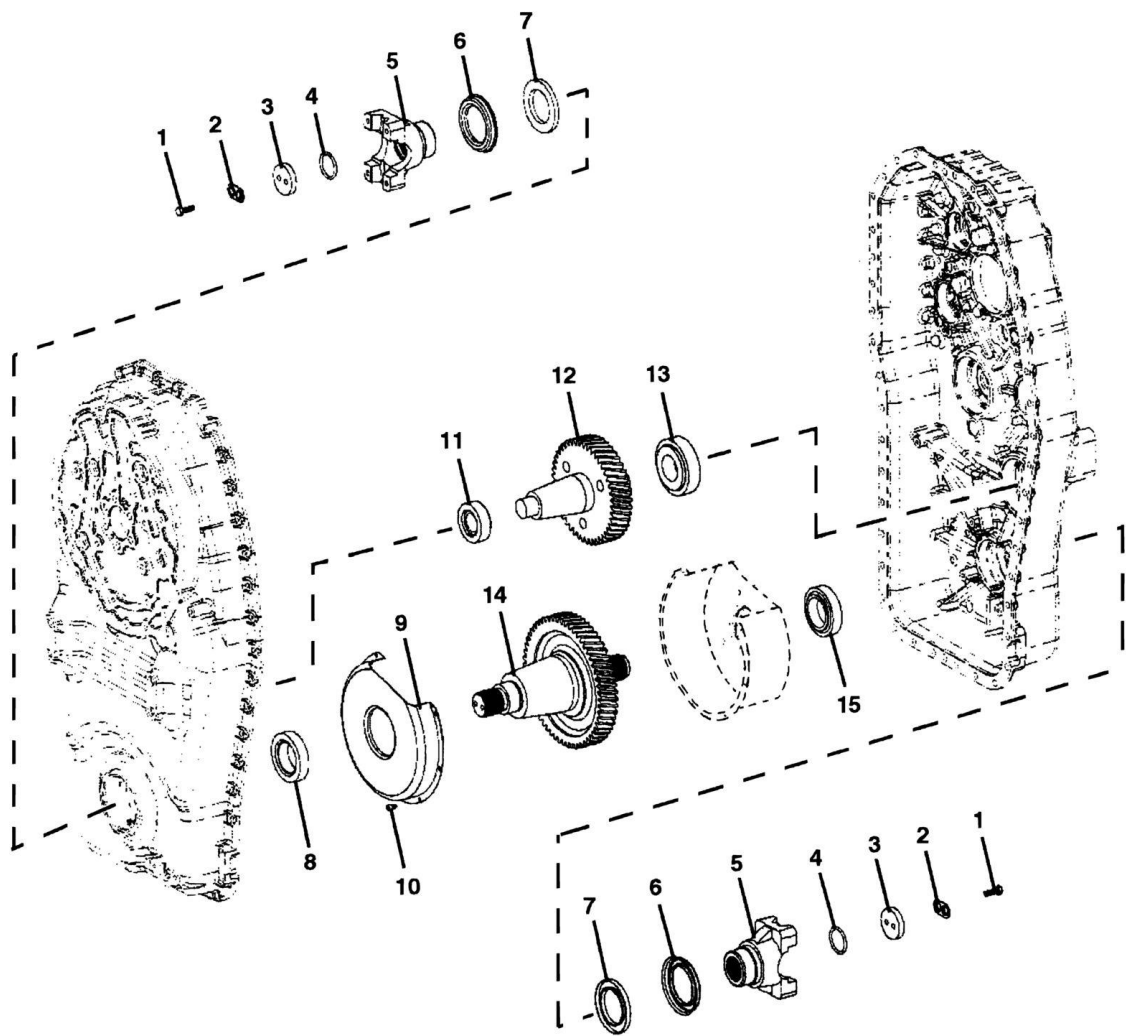
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-31. ZF TRANSMISSION - COUPLING GROUP K4**

| ITEM | PART NUMBER | QTY | DESCRIPTION      | REV |
|------|-------------|-----|------------------|-----|
| 1    | 1319615     | 1   | ROLLER BEARING   |     |
| 2    | 7026761     | 2   | PISTON RING      |     |
| 3    | 1319634     | 1   | COUPLING         |     |
| 4    | 8036575     | 1   | PISTON           |     |
| 5    | 1319595     | 5   | CUP SPRING       |     |
| 6    | 10731845    | 2   | RETAINING RING   |     |
| 7    | 1319596     | 1   | SHIM             |     |
| 8    | 7026759     | 8   | O. CLUTCH DISC   |     |
| 9    | 7026758     | 8   | LIN. CLUTCH DISC |     |
| 10   | 7026760     | 1   | END SHIM         |     |
| 11   | 1319600     | AR  | SNAP RING, 3.5   |     |
| 11   | 1319601     | AR  | SNAP RING, 3.5   |     |
| 11   | 1319602     | AR  | SNAP RING, 3.0   |     |
| 11   | 1319603     | AR  | SNAP RING, 2.5   |     |
| 11   | 1319604     | AR  | SNAP RING, 2.0   |     |
| 12   | 1319606     | 2   | ROLLER CAGE      |     |
| 13   | 1319635     | 1   | DISC CARRIER     |     |
| 14   | 1319636     | 1   | ROLLER BEARING   |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-32. ZF TRANSMISSION - OUTPUT



PV1480



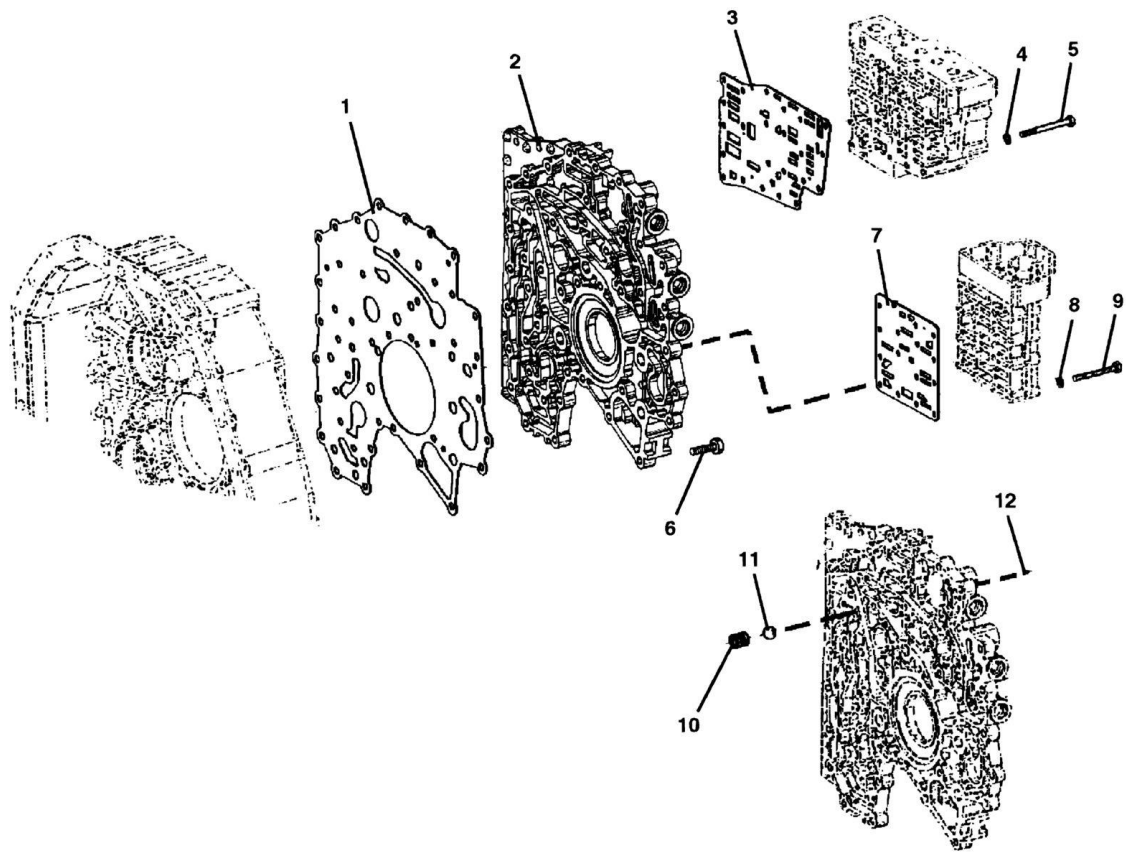
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-32. ZF TRANSMISSION - OUTPUT**

| ITEM | PART NUMBER | QTY | DESCRIPTION         | REV |
|------|-------------|-----|---------------------|-----|
| 1    | 10731959    | 4   | HEX SCREW           |     |
| 2    | 1319649     | 2   | TAB WASHER          |     |
| 3    | 1319648     | 2   | WASHER              |     |
| 4    | 10839156    | 2   | O-RING              |     |
| 5    | 1319642     | 2   | OUTPUT FLANGE       |     |
| 6    | 1319647     | 2   | SCREEN SHEET        |     |
| 7    | 1319641     | 2   | SHAFT SEAL          |     |
| 8    | N.S.S.      | 1   | ROLLER BEARING ASSY |     |
| 8    | 70020430    | 1   | CUP                 |     |
| 8    | 70020431    | 1   | CONE                |     |
| 9    | 8036031     | 1   | SCREEN SHEET        |     |
| 10   | 1319646     | 7   | CAPSCREW            |     |
| 11   | 7029532     | 1   | OUTER RING          |     |
| 11   | 7029533     | 1   | INNER RING          |     |
| 12   | 8036032     | 1   | INTERM. SHAFT       |     |
| 13   | 1319633     | 1   | ROLLER BEARING      |     |
| 14   | 7029029     | 1   | OUTPUT SHAFT        |     |
| 15   | N.S.S.      | 1   | ROLLER BEARING ASSY |     |
| 15   | 70020430    | 1   | CUP                 |     |
| 15   | 70020431    | 1   | CONE                |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-33. ZF TRANSMISSION - CONTROL UNIT



PV1490

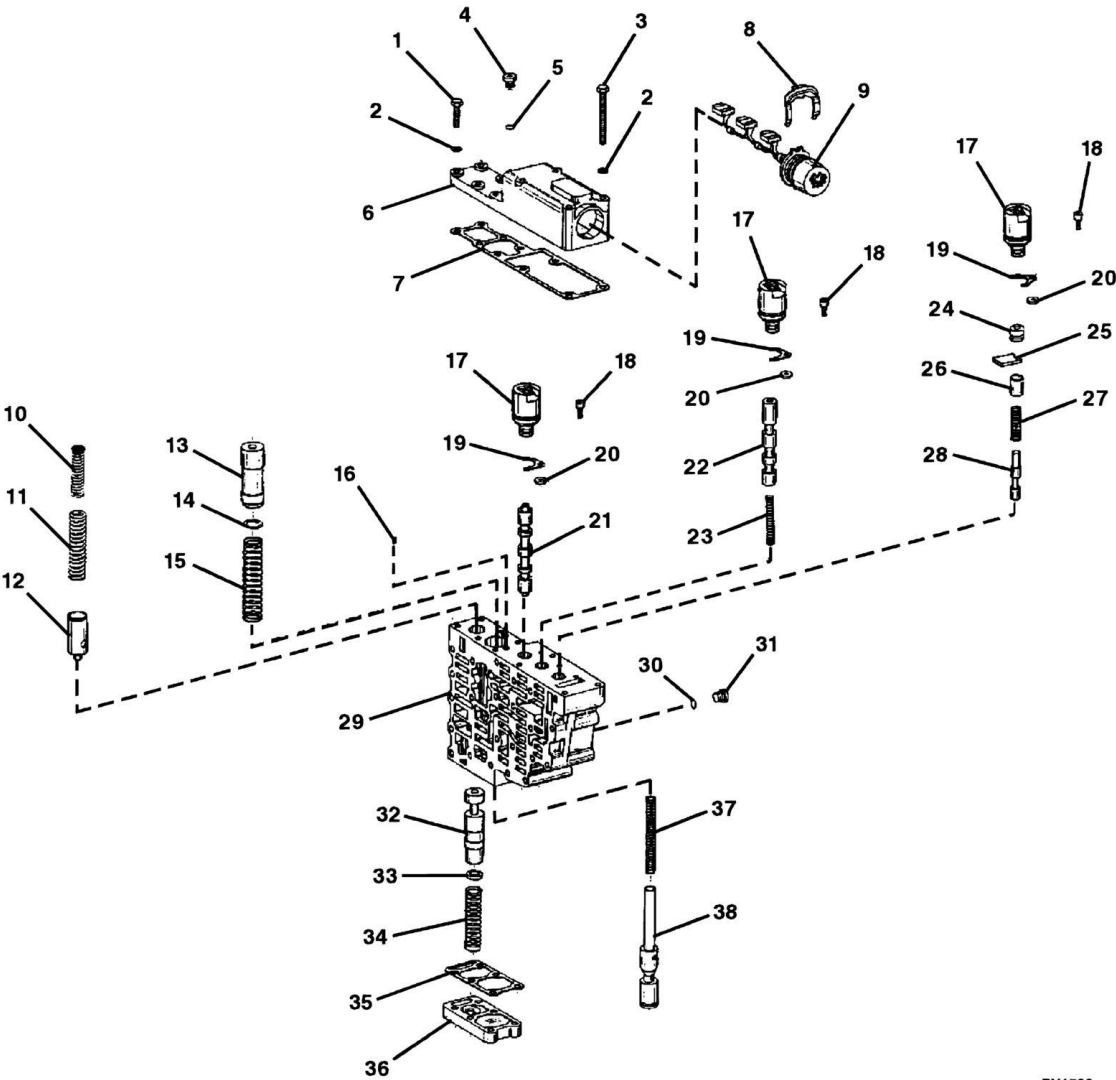
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-33. ZF TRANSMISSION - CONTROL UNIT**

| ITEM | PART NUMBER | QTY | DESCRIPTION                      | REV |
|------|-------------|-----|----------------------------------|-----|
| 1    | 1319650     | 1   | GASKET                           |     |
| 2    | 7029035     | 1   | DUCT PLATE                       |     |
| 3    | 8036034     | 1   | INTERM. SHEET, (previous design) |     |
| 3    | 70020425    | 1   | INTERM. SHEET, (current design)  |     |
| 4    | 1319661     | 19  | WASHER                           |     |
| 5    | 7029037     | 19  | HEX SCREW                        |     |
| 6    | 7029036     | 43  | TORX SCREW                       |     |
| 7    | 8036035     | 1   | INTERM. SHEET, (previous design) |     |
| 7    | 70020426    | 1   | INTERM. SHEET, (current design)  |     |
| 8    | 1319661     | 15  | WASHER                           |     |
| 9    | 1321265     | 15  | HEX SCREW                        |     |
| 10   | 10732072    | 1   | COMPRESSION SPRING               |     |
| 11   | 10732071    | 1   | BALL                             |     |
| 12   | 1319652     | 1   | ORIFICE                          |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-34. ZF TRANSMISSION - GEARSHIFT SYSTEM



PV1500

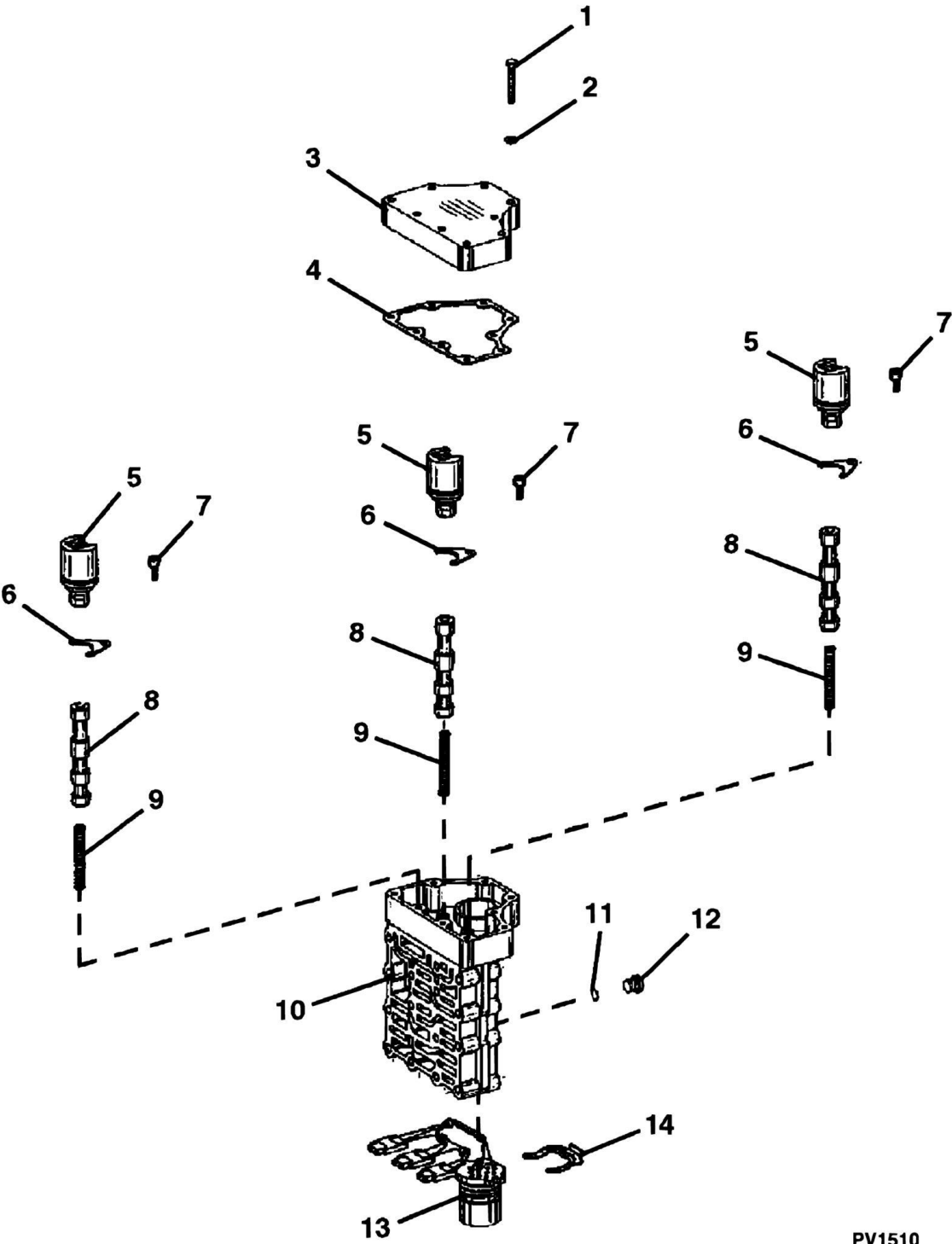
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-34. ZF TRANSMISSION - GEARSHIFT SYSTEM**

| ITEM | PART NUMBER | QTY | DESCRIPTION        | REV |
|------|-------------|-----|--------------------|-----|
| 1    | 1319693     | 6   | HEX SCREW          |     |
| 2    | 1319661     | 10  | WASHER             |     |
| 3    | 7029037     | 4   | HEX SCREW          |     |
| 4    | 1319670     | 1   | SCREW PLUG         |     |
| 5    | 10731709    | 1   | O-RING             |     |
| 6    | 8036039     | 1   | COVER              |     |
| 7    | 1319705     | 1   | GASKET             |     |
| 8    | 1319707     | 1   | RETAINING CLAMP    |     |
| 9    | 1319704     | 1   | WIRING HARNESS     |     |
| 10   | 8036038     | 1   | COMPRESSION SPRING |     |
| 11   | 1319673     | 1   | COMPRESSION SPRING |     |
| 12   | 7029039     | 1   | PISTON             |     |
| 13   | 1319690     | 1   | PISTON             |     |
| 14   | 1319685     | AR  | WASHER, 2.0        |     |
|      | 1319686     | AR  | WASHER, 1.0        |     |
|      | 1319687     | AR  | WASHER, 0.5        |     |
|      | 1319688     | AR  | WASHER, 0.3        |     |
|      | 1319689     | AR  | WASHER, 0.2        |     |
| 15   | 1319683     | 1   | COMPRESSION SPRING |     |
| 16   | 7029052     | 1   | ORIFICE            |     |
| 17   | 1319702     | 3   | SOLENOID VALVE     |     |
| 18   | 1319703     | 3   | CAPSCREW           |     |
| 19   | 10732063    | 3   | FIXING PLATE       |     |
| 20   | 10732064    | 3   | WASHER             |     |
| 21   | 1319694     | 1   | VALVE              |     |
| 22   | 1319695     | 1   | PISTON             |     |
| 23   | 1319696     | 1   | COMPRESSION SPRING |     |
| 24   | 1319700     | 1   | PLUG               |     |
| 25   | 1319701     | 1   | FIXING PLATE       |     |
| 26   | 1319699     | 1   | SPACER SLEEVE      |     |
| 27   | 1319698     | 1   | COMPRESSION SPRING |     |
| 28   | 1319697     | 1   | PISTON             |     |
| 29   | 1319671     | 1   | VALVE HOUSING      |     |
| 30   | 10731709    | 7   | O-RING             |     |
| 31   | 1319670     | 7   | SCREW PLUG         |     |
| 32   | 1319674     | 1   | PISTON             |     |
| 33   | 1319675     | AR  | SPACER RING, 3.6   |     |
|      | 1319676     | AR  | SPACER RING, 3.2   |     |
|      | 1319677     | AR  | SPACER RING, 2.8   |     |
|      | 1319678     | AR  | SPACER RING, 2.4   |     |
|      | 1319679     | AR  | SPACER RING, 2.0   |     |
| 34   | 1319680     | 1   | COMPRESSION SPRING |     |
| 35   | 1319691     | 1   | GASKET             |     |
| 36   | 1319692     | 1   | COVER              |     |
| 37   | 1319684     | 1   | COMPRESSION SPRING |     |
| 38   | 1319681     | 1   | CONTROL PISTON     |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-35. ZF TRANSMISSION - GEARSHIFT SYSTEM



PV1510

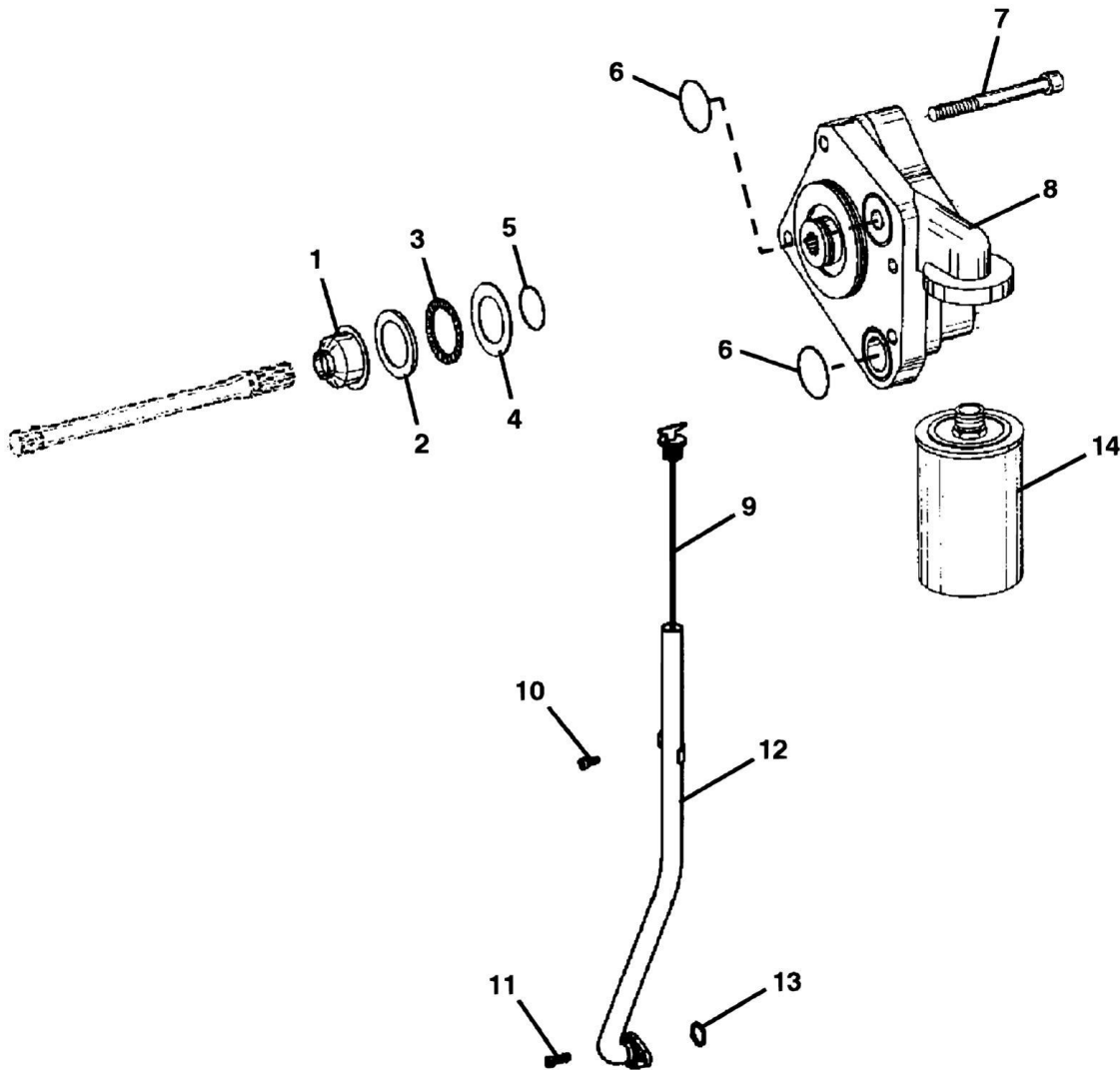
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-35. ZF TRANSMISSION - GEARSHIFT SYSTEM**

| ITEM | PART NUMBER | QTY | DESCRIPTION        | REV |
|------|-------------|-----|--------------------|-----|
| 1    | 1319714     | 9   | HEX SCREW          |     |
| 2    | 1319715     | 9   | WASHER             |     |
| 3    | 1319713     | 1   | COVER              |     |
| 4    | 1319712     | 1   | GASKET             |     |
| 5    | 1319702     | 3   | SOLENOID VALVE     |     |
| 6    | 10732063    | 3   | FIXING PLATE       |     |
| 7    | 1319703     | 3   | CAPSCREW           |     |
| 8    | 1319710     | 3   | PISTON             |     |
| 9    | 1319696     | 3   | COMPRESSION SPRING |     |
| 10   | 70020427    | 1   | VALVE BLOCK        |     |
| 11   | 10731709    | 3   | O-RING             |     |
| 12   | 1319670     | 3   | SCREW PLUG         |     |
| 13   | 1319711     | 1   | WIRING HARNESS     |     |
| 14   | 1319707     | 1   | RETAINING          |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-36. ZF TRANSMISSION - OIL PUMP, FILTER AND DIPSTICK



PV1520



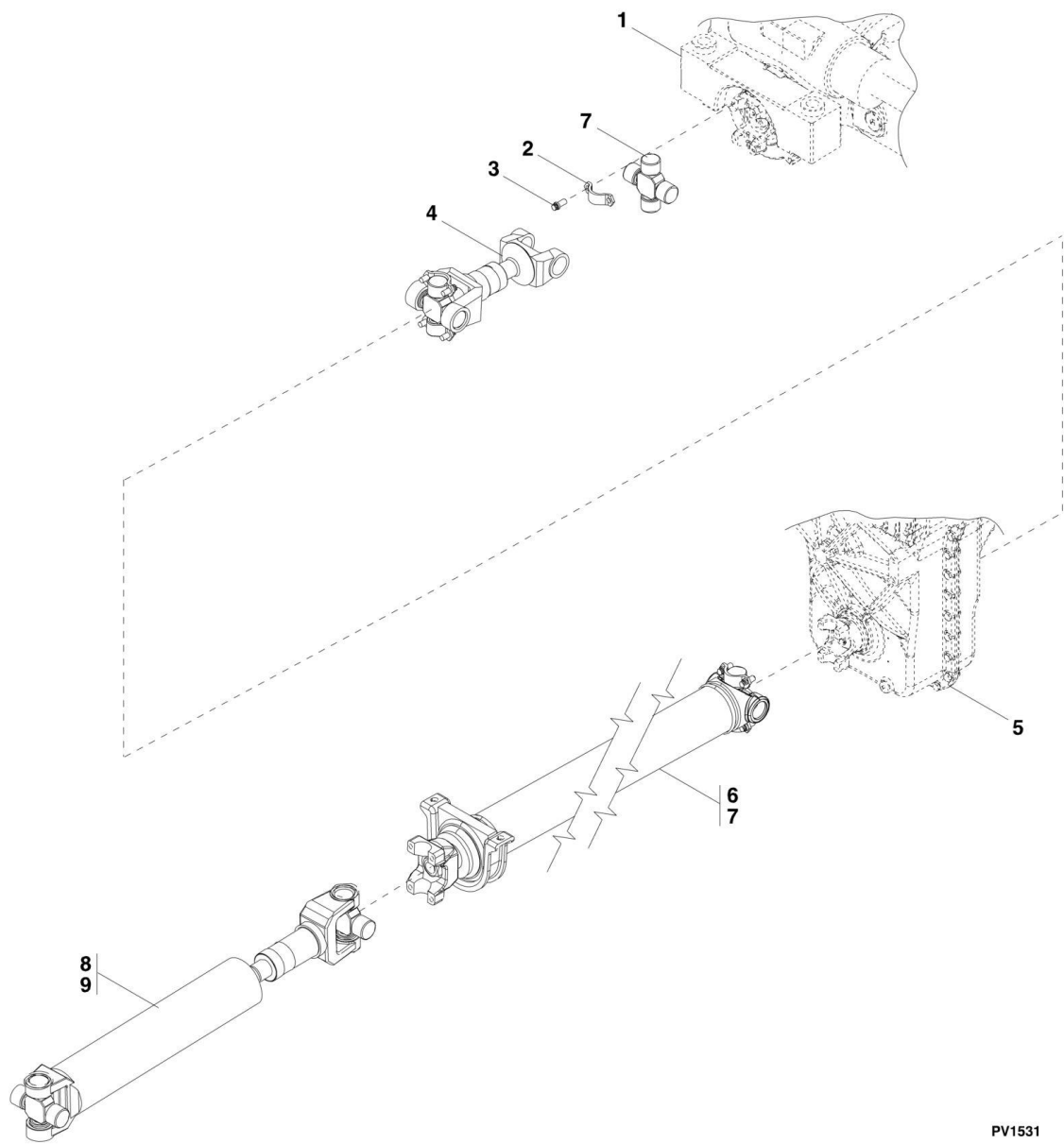
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-36. ZF TRANSMISSION - OIL PUMP, FILTER AND DIPSTICK**

| ITEM | PART NUMBER | QTY | DESCRIPTION     | REV |
|------|-------------|-----|-----------------|-----|
| 1    | 1319723     | 1   | STOP SLEEVE     |     |
| 2    | 1319722     | 1   | ANGLE DISC      |     |
| 3    | 1319721     | 1   | AX. NEEDLE CAGE |     |
| 4    | 1319720     | 1   | AXIAL WASHER    |     |
| 5    | 1319724     | 1   | O-RING          |     |
| 6    | 1319719     | 2   | O-RING          |     |
| 7    | 80304214    | 4   | CAPSCREW        |     |
| 8    | 7029074     | 1   | PUMP            |     |
| 9    | 7029914     | 1   | OIL DIPSTICK    |     |
| 10   | 1319585     | 1   | CAPSCREW        |     |
| 11   | 1319582     | 2   | CAPSCREW        |     |
| 12   | 7029913     | 1   | OIL TUBE        |     |
| 13   | 1319581     | 1   | O-RING          |     |
| 14   | 1319726     | 1   | FILTER          |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-37. DRIVE SHAFT



PV1531

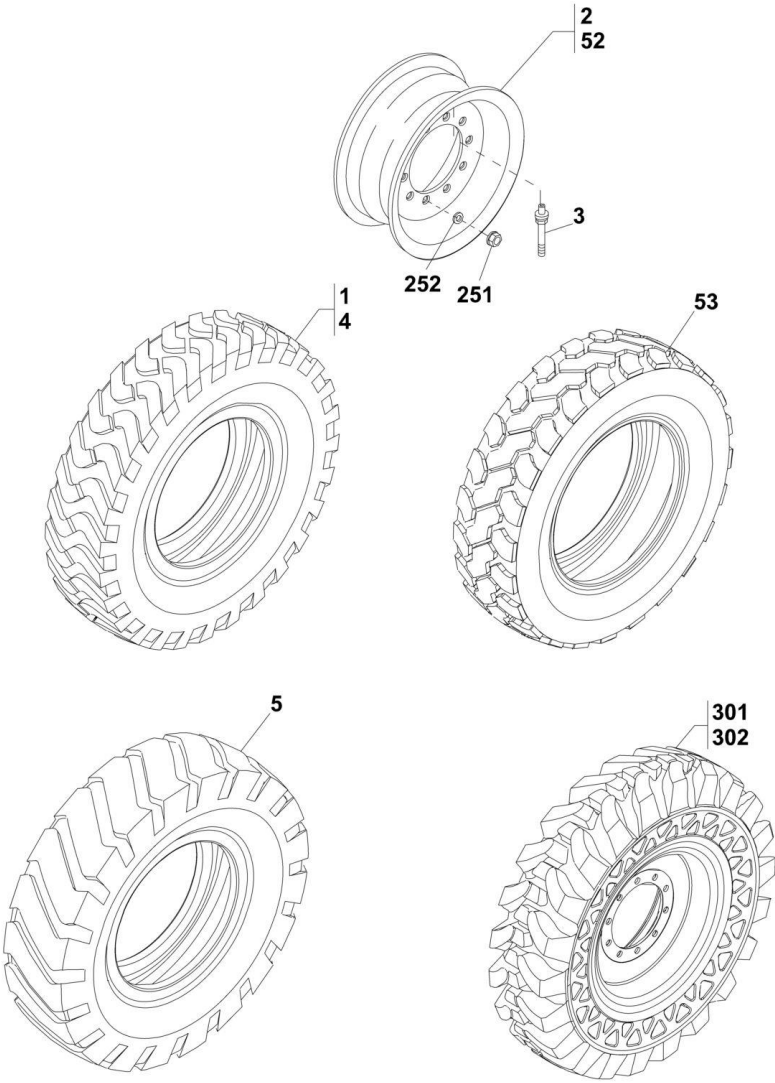
## SECTION 5 - DRIVE TRAIN

**FIGURE 5-37. DRIVE SHAFT**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                        | REV |
|------|-------------|-----|------------------------------------------------------------------------------------|-----|
| 1    |             | Ref | REAR AXLE ASSEMBLY, (See REAR AXLE ASSEMBLY for Breakdown)                         |     |
| 2    | 91473027    | 10  | BEARING STRAP                                                                      |     |
| 3    | 91473028    | 20  | STRAP BOLT, (torque to 55-60 lb-ft), (must replace when removed, do not re-torque) |     |
| 4    | 4040282     | 1   | DRIVESHAFT, (includes item 7)                                                      |     |
| 5    |             | Ref | TRANSMISSION, (See ZF TRANSMISSION - CONVERTER AND INPUT for Breakdown)            |     |
| 6    | 91563209    | 1   | REAR DRIVESHAFT, (includes item 7)                                                 |     |
| 7    | 7026911     | 2   | UNIVERSAL JOINT KIT                                                                |     |
| 8    | 91473151    | 1   | FRONT DRIVESHAFT, (includes item 9)                                                |     |
| 9    | 91474035    | 1   | UNIVERSAL JOINT KIT                                                                |     |

SECTION 5 - DRIVE TRAIN

FIGURE 5-38. TIRES AND RIMS



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## SECTION 5 - DRIVE TRAIN

**FIGURE 5-38. TIRES AND RIMS**

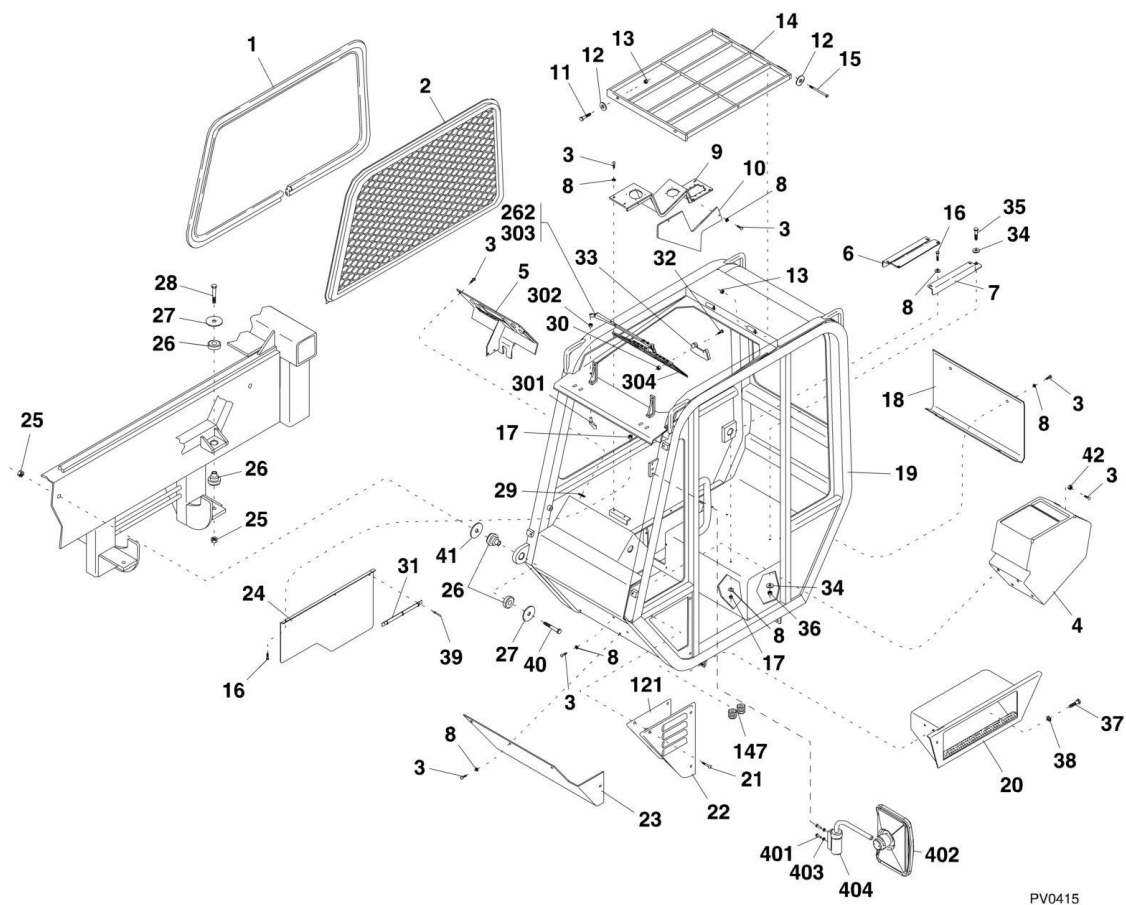
| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                             | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------------|-----|
|      | 4520400     | 2   | LH TIRE ASSY, HYDRO FILLED, 14x24 12 PLY, (includes items 2 thru 4)                                     | B   |
|      | 4520401     | 2   | RH TIRE ASSY, HYDRO FILLED, 14X24 12 PLY, (includes items 2 thru 4)                                     | B   |
|      | 4520398     | 2   | LH TIRE ASSY, FOAM FILLED, 14x24 12 PLY, (includes items 2 thru 4)                                      | B   |
|      | 4520399     | 2   | RH TIRE ASSY, FOAM FILLED, 14x24 12 PLY, (includes items 2 thru 4)                                      | B   |
|      | 4520396     | 4   | TIRE ASSY, FOAM FILLED, 14X24 RADIAL, (includes items 1 thru 3)                                         | B   |
|      | 4520397     | 4   | TIRE ASSY, FOAM FILLED, 14X24 RADIAL, (includes items 1 thru 3)                                         | B   |
|      | 4520500     | 4   | TIRE ASSY, HYDRO FILLED, 14X24 RADIAL, (includes items 2, 3 & 5)                                        | A   |
|      | 4520502     | 4   | TIRE ASSY, FOAM FILLED, 14X24 RADIAL, (includes items 2, 3 & 5)                                         | A   |
|      | 1001126344  | 1   | TIRE AND RIM ASSY, 400/75-28, 16PLY, (includes items 3, 52 & 53)                                        | A   |
|      | 1001121104  | 1   | TIRE AND RIM ASSY, 400/75-28, 16PLY, FOAM FILLED, 570LB, (includes items 3, 52 & 53)                    | A   |
| 1    | 91363215    | 1   | TIRE, 14X24 RADIAL, BRIDGESTONE                                                                         |     |
| 2    | 7301054     | 1   | RIM, 9x24x9mm, 1.06 OFFSET                                                                              |     |
| 3    | 8786514     | 1   | VALVE                                                                                                   |     |
| 4    | 91043084    | 1   | TIRE, 14x24, FIRESTONE                                                                                  |     |
| 5    | 91543002    | 1   | GRADER TIRE, 14X24                                                                                      |     |
| 52   | 1001100009  | 1   | RIM, 28X12, 1.18 OFFSET                                                                                 |     |
| 53   | 1001120179  | 1   | TIRE, 400/75-28, 16PLY                                                                                  |     |
| 251  |             | Ref | WHEEL NUT, (See DRIVE TRAIN COMPONENT for Breakdown)                                                    |     |
| 252  |             | Ref | LOCK WASHER, (See DRIVE TRAIN COMPONENT for Breakdown)                                                  |     |
| 301  | 1001151103  | 2   | LH SOLIDEAL TIRE, 14.00-24                                                                              |     |
| 302  | 1001151104  | 2   | RH SOLIDEAL TIRE, 14.00-24                                                                              |     |
| N1   | Note        | Ref | <b>QUANTITIES SHOWN ARE FOR ONE TIRE ONLY.<br/>ITEM NUMBERS NOT LISTED ARE NOT USED ON THIS FIGURE.</b> |     |
| N2   | Note        | Ref |                                                                                                         |     |



**SECTION 6 - CAB**

SECTION 6 - CAB

FIGURE 6-1. OPERATORS COMPARTMENT ASSEMBLY



PV0415



FIGURE 6-1. OPERATORS COMPARTMENT ASSEMBLY

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                   | REV |
|------|-------------|-----|-------------------------------------------------------------------------------------------------------------------------------|-----|
|      | 10467146    | Ref | OPEN CAB ASSY, (includes items 1 thru 23 & item 42)                                                                           | I   |
|      | 10467361    | Ref | ENCLOSED CAB ASSY, (includes items 3, 5 thru 24, 262, 301 thru 304 and all items on CAB ENCLOSURE KIT)                        | K   |
| 1    | 1012354     | 1   | RUBBER LOCKING CHANNEL                                                                                                        |     |
| 2    | 10339390    | 1   | SLIDE SCREEN                                                                                                                  |     |
| 3    | 10727829    | 24  | PHILLIPS TRUSS HD SCREW, 5/16-18X3/4                                                                                          |     |
| 4    | 10267147    | 1   | STORAGE BOX                                                                                                                   |     |
| 5    |             | Ref | INSTRUMENT PANEL, (See INSTRUMENT PANEL ASSEMBLY for Breakdown)                                                               |     |
| 6    | 10265863    | 1   | RIGHT SEAT MOUNT                                                                                                              |     |
| 7    | 10265862    | 1   | LEFT SEAT MOUNT                                                                                                               |     |
| 8    | 10701403    | 20  | FLAT WASHER, 5/16                                                                                                             |     |
| 9    | 10336383    | 1   | WELDMENT (Prior to SN 0160048698)                                                                                             |     |
| 9    | 1001143667  | 1   | WELDMENT (SN 0160048698 to Present)                                                                                           |     |
| 10   | 10236436    | 1   | CONTROL PANEL SIDE COVER                                                                                                      |     |
| 11   | 10700234    | 2   | HEX HD CAPSCREW, 3/8-16X1-3/4, GR8                                                                                            |     |
| 12   | 10701404    | 4   | FLAT WASHER, 3/8                                                                                                              |     |
| 13   | 10701658    | 4   | HEX LOCKNUT, 3/8-16                                                                                                           |     |
| 14   | 10336887    | 1   | OVERHEAD GUARD                                                                                                                |     |
| 15   | 10700245    | 2   | HEX HD CAPSCREW, 3/8-16X5, GR8                                                                                                |     |
| 16   | 10700102    | 7   | HEX HD CAPSCREW, 5/16-18X3/4                                                                                                  |     |
| 17   | 10701507    | 6   | HEX NUT, 5/16-18                                                                                                              |     |
| 18   | 10236381    | 1   | REAR COVER                                                                                                                    |     |
| 19   | 10439443    | 1   | CAB WELDMENT, (open cab)                                                                                                      |     |
| 19   | 10467366    | 1   | CAB WELDMENT, (enclosed cab)                                                                                                  |     |
| 20   | 10236955    | 1   | OPERATORS STEP                                                                                                                |     |
| 21   | 10837113    | 3   | PHILLIPS TRUSS HD SCREW, 5/16-18X1-1/2, (open cab)                                                                            |     |
| 21   | 10337113    | 3   | PHILLIPS TRUSS HD SCREW, 5/16-18X1-3/4, (enclosed cab)                                                                        |     |
| 22   | 10236849    | 1   | SIDE COVER                                                                                                                    |     |
| 23   | 10236958    | 1   | FRONT COVER                                                                                                                   |     |
| 24   | 10236542    | 1   | MOUNTING PLATE DECAL                                                                                                          |     |
| 25   | 10705006    | 4   | HEX LOCKNUT, 5/8-11                                                                                                           |     |
| 26   | 10733152    | 4   | TWO PIECE RUBBER MOUNT                                                                                                        |     |
| 27   | 10136262    | 4   | SNUBBING WASHER                                                                                                               |     |
| 28   | 10700642    | 2   | HEX HD CAPSCREW, 5/8-1X4-1/2, GR8                                                                                             |     |
| 29   | 8305906     | 4   | NUT                                                                                                                           |     |
| 30   | 10705103    | 2   | FLANGE NUT (SN 0160009654 through 0160014307, Including 0160008714)                                                           |     |
| 31   | 10138718    | 1   | 3-RING HANGER FLIP CARD                                                                                                       |     |
| 32   | 10702034    | 2   | ROUND HD SLOTTED SCREW, #8-32X1/2 (SN 0160009654 through 0160014307, Including 0160008714)                                    |     |
| 33   | N.S.S.      | NLA | LEVEL INDICATOR , (no longer available, use 8466306 for replacement) (SN 0160009654 through 0160014307, Including 0160008714) |     |
| 33   | 8466306     | 1   | LEVEL INDICATOR, (with adhesive) (SN 0160014308 to Present)                                                                   |     |
| 34   | 107012533   | 4   | FLAT WASHER, 7/16                                                                                                             |     |
| 35   | 10700303    | 2   | HEX HD CAPSCREW, 7/16-14X1-1/4                                                                                                |     |
| 36   | 10705003    | 2   | HEX LOCKNUT, 7/16-14                                                                                                          |     |
| 37   | 10700202    | 4   | HEX HD CAPSCREW, 3/8-16X3/4                                                                                                   |     |
| 38   | 10701310    | 4   | LOCKWASHER, 3/8                                                                                                               |     |
| 39   | 10732958    | 4   | ALUMINUM POP-RIVET, 1/8X.33 LONG                                                                                              |     |

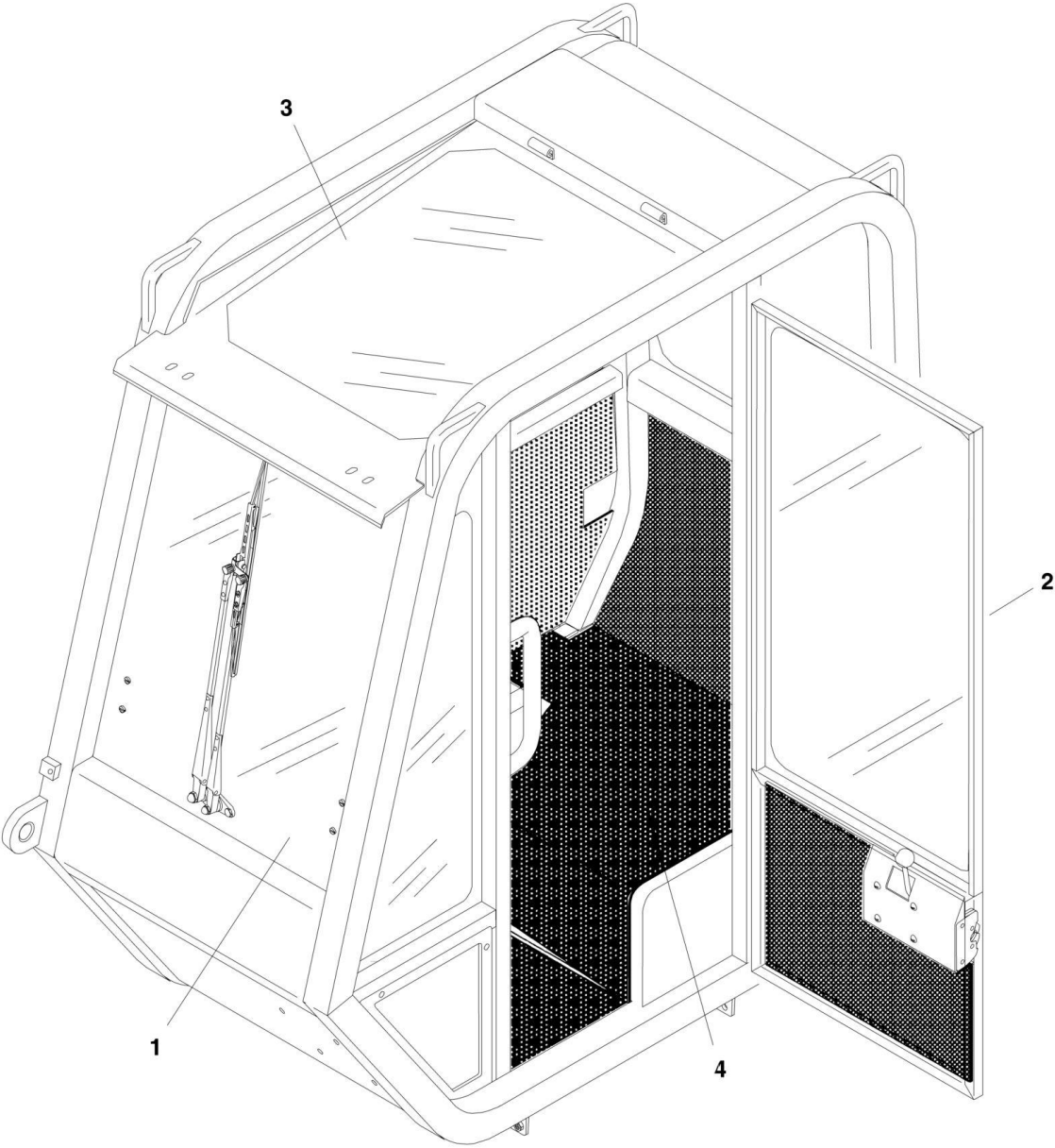
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| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                              | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------|-----|
| 40   | 10700641    | 2   | HEX HD CAPSCREW, 5/8-11X4, GR8                                                           | AA  |
| 41   | 10115616    | 2   | WASHER                                                                                   |     |
| 42   | 10705107    | 1   | HEX NUT, 5/16-18                                                                         |     |
| 121  | 10236427    | 1   | FRESH AIR FILTER                                                                         |     |
| 147  | 10867157    | 2   | RUBBER GROMMET                                                                           |     |
| 262  | 1100139-OM  | 1   | Manual Wiper Assy                                                                        |     |
| 301  | 1100140-OM  | 1   | Wiper Handle                                                                             |     |
| 302  | 1100141-OM  | 1   | Hex Nut                                                                                  |     |
| 303  | 8035500     | 1   | Wiper Arm, Adjustable                                                                    |     |
| 304  | 1100143-OM  | 1   | Wiper Blade                                                                              |     |
|      | 1001115153  | Ref | LH CAB MIRROR INSTALLATION, (not available to order, see items 401 thru 404 for service) | C   |
| 401  | 0700610     | 2   | HEX HD CAPSCREW, 6X20mm, GR8.8                                                           |     |
| 402  | 1001148177  | 1   | MIRROR                                                                                   |     |
| 403  | 8307024     | 2   | LOCKWASHER, 6mm                                                                          |     |
| 404  | 1001114675  | 1   | MIRROR ARM                                                                               |     |



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FIGURE 6-2. CAB ENCLOSURE KIT



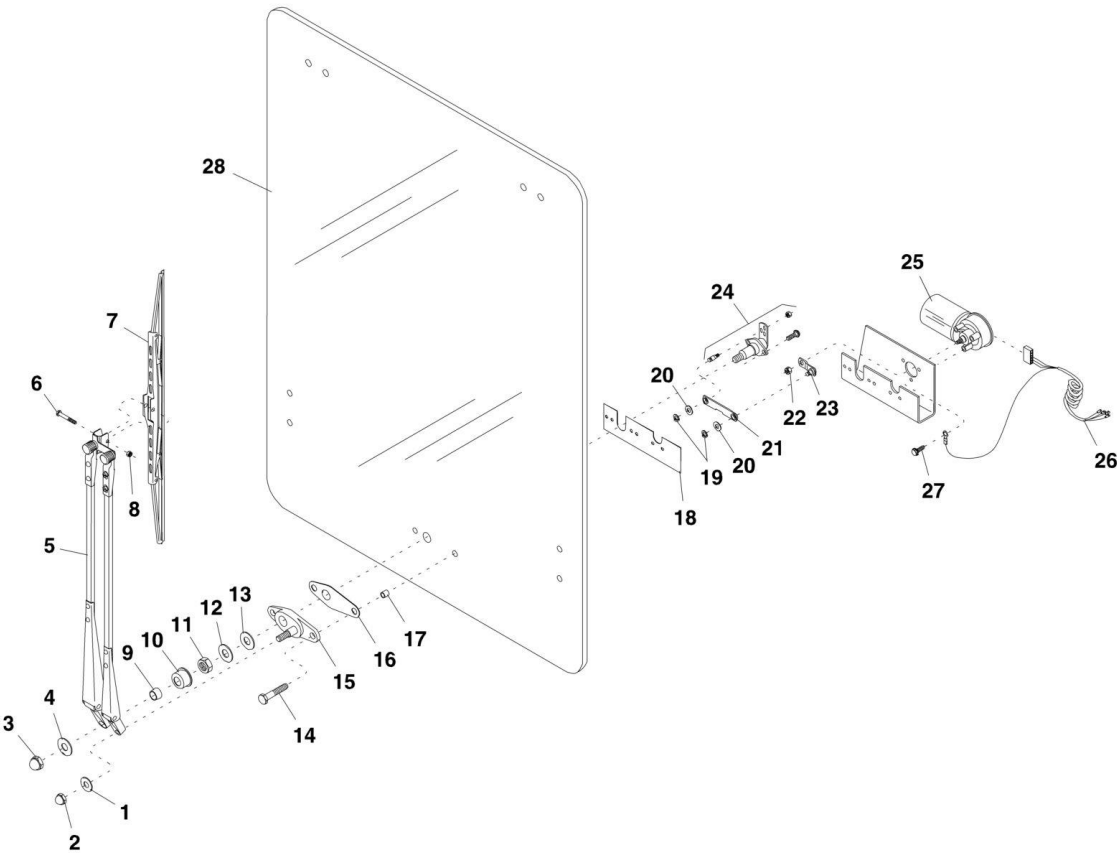
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FIGURE 6-2. CAB ENCLOSURE KIT

| ITEM | PART NUMBER | QTY      | DESCRIPTION                                                                                                                        | REV |
|------|-------------|----------|------------------------------------------------------------------------------------------------------------------------------------|-----|
| 1    | 10436476    | 1<br>Ref | CAB ENCLOSURE KIT, (includes all items)<br>WINDSHIELD W/WIPER, MOLDING AND HARDWARE, (See WINDSHIELD WIPER ASSEMBLY for Breakdown) | B   |
| 2    |             | Ref      | DOOR ASSY, (See DOOR ASSEMBLY for Breakdown)                                                                                       |     |
| 3    |             | Ref      | CAB WINDOWS, (See WINDOW ASSEMBLY for Breakdown)                                                                                   |     |
| 4    |             | Ref      | CAB INSULATION, (See INSULATION INSTALLATION for Breakdown)                                                                        |     |

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FIGURE 6-3. WINDSHIELD WIPER ASSEMBLY



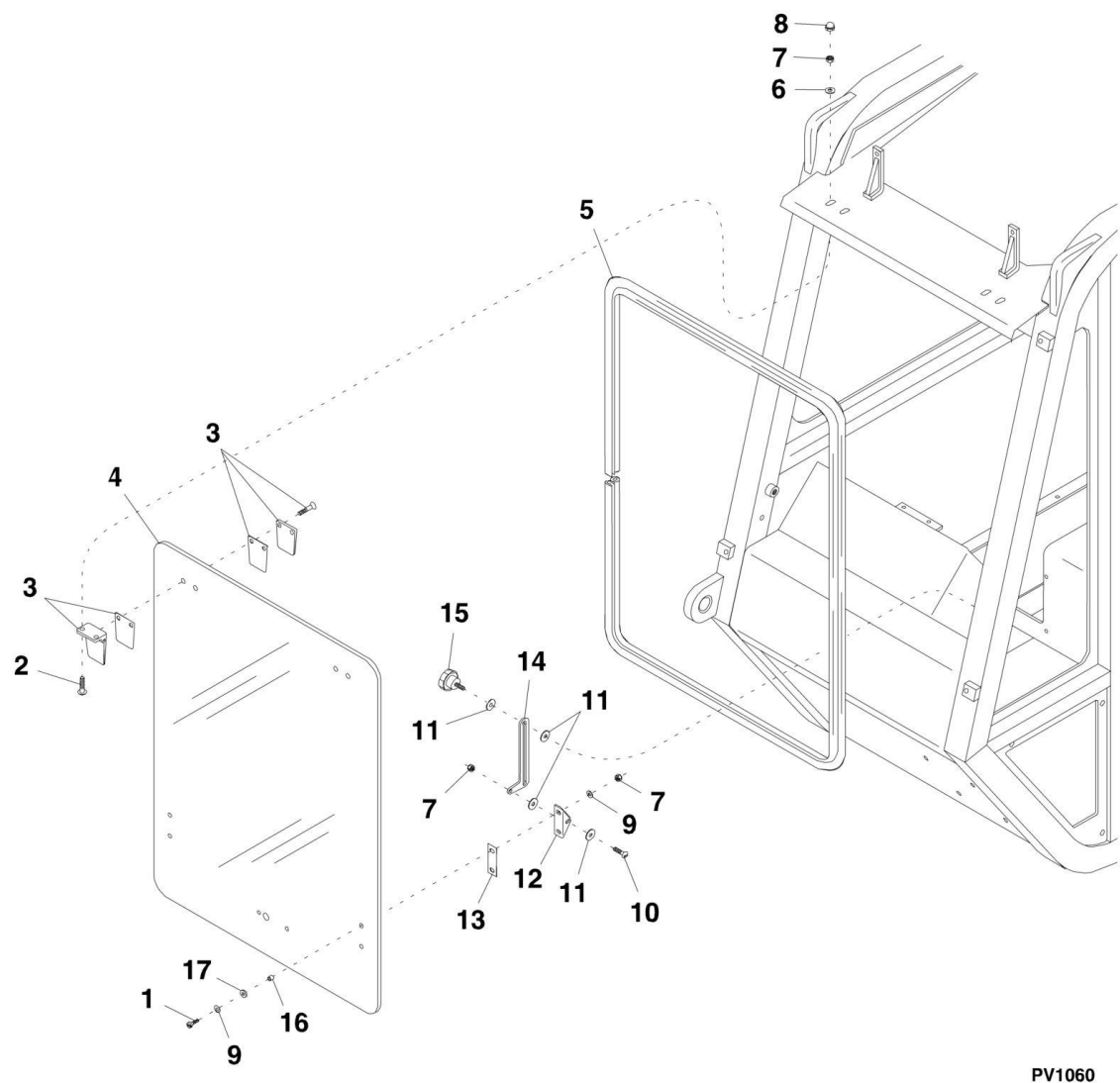
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FIGURE 6-3. WINDSHIELD WIPER ASSEMBLY

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                            | REV |
|------|-------------|-----|----------------------------------------------------------------------------------------|-----|
|      | 10337401    | 1   | WINDSHIELD WIPER ASSY, (includes items 1 thru 28 and all items on WINDSHIELD ASSEMBLY) |     |
| 1    | 10701400    | 1   | FLAT WASHER                                                                            |     |
| 2    | 10791581    | 1   | ACORN NUT, #10-24                                                                      |     |
| 3    | 10791583    | 1   | ACORN NUT                                                                              |     |
| 4    | 10791584    | 1   | FLAT WASHER                                                                            |     |
| 5    | 10837390    | 1   | DUAL WIPER ARM                                                                         |     |
| 6    | 10791577    | 1   | SLOTTED SCREW, #4-40X7/8                                                               |     |
| 7    | 10732558    | 1   | WIPER BLADE                                                                            |     |
| 8    | 10701650    | 1   | HEX LOCKNUT, #4-40                                                                     |     |
| 9    | 10791585    | 1   | DRIVER                                                                                 |     |
| 10   | 10791586    | 1   | RUBBER CAP                                                                             |     |
| 11   | 10791581    | 1   | HEX NUT                                                                                |     |
| 12   | 10791588    | 1   | STEEL WASHER                                                                           |     |
| 13   | 10791589    | 1   | PLASTIC WASHER                                                                         |     |
| 14   | 10837399    | 2   | HEX HD CAPSCREW, 1/4-28X3/4                                                            |     |
| 15   | 10732556    | 1   | PANTOGRAPHIC ADAPTER                                                                   |     |
| 16   | 10791579    | 1   | GASKET                                                                                 |     |
| 17   | 10139222    | 2   | PLASTIC SLEEVE                                                                         |     |
| 18   | 10139223    | 1   | WIPER MOTOR GASKET                                                                     |     |
| 19   | 10791601    | 2   | SPRING CLIP                                                                            |     |
| 20   | 10791600    | 2   | FLAT WASHER                                                                            |     |
| 21   | 10791599    | 1   | LINK                                                                                   |     |
| 22   | 10701531    | 1   | HEX NUT, 3/8-24                                                                        |     |
| 23   | 10732555    | 1   | DRIVER ARM                                                                             |     |
| 24   | 10732554    | 1   | PIVOT SHAFT                                                                            |     |
| 25   | 10732551    | 1   | WIPER MOTOR, (includes bracket)                                                        |     |
| 26   | 10238366    | 1   | WIPER MOTOR CABLE                                                                      |     |
| 27   | 10791598    | 3   | SCREW                                                                                  |     |
| 28   |             | Ref | WINDSHIELD ASSY, (See WINDSHIELD ASSEMBLY for Breakdown)                               |     |

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FIGURE 6-4. WINDSHIELD ASSEMBLY



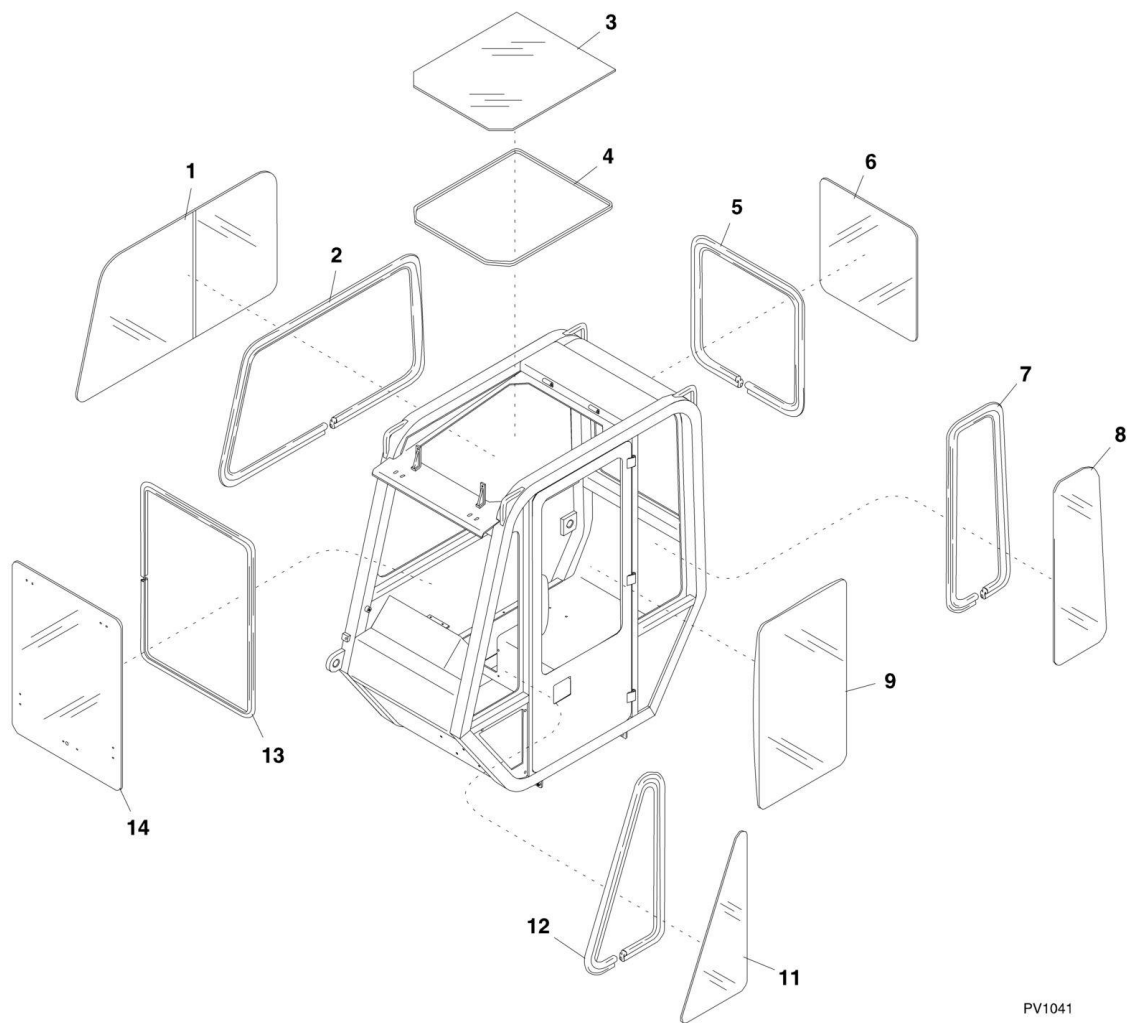
PV1060



FIGURE 6-4. WINDSHIELD ASSEMBLY

| ITEM | PART NUMBER | QTY | DESCRIPTION                        | REV |
|------|-------------|-----|------------------------------------|-----|
| 1    | 10837393    | 4   | ROUND HD SLOTTED SCREW, 1/4-20X1   |     |
| 2    | 10837397    | 4   | ROUND HD SLOTTED SCREW, 1/4-20X1   |     |
| 3    | 10837389    | 2   | FLAT HINGE                         |     |
| 4    | 10336317    | 1   | HINGED GLASS WINDSHIELD            |     |
| 5    | 91344031    | 1   | WINDSHIELD SEAL                    |     |
| 6    | 10837398    | 4   | FLAT WASHER, 1/4                   |     |
| 7    | 70021038    | 10  | HEX LOCKNUT, 1/4-20                |     |
| 8    | 10136480    | 4   | ACORN CAP                          |     |
| 9    | 4740553     | 4   | WASHER, SPECIAL,WEATHER TIGHT 0.25 |     |
| 10   | 10837391    | 2   | ROUND HD SLOTTED SCREW, 1/4-20X3/4 |     |
| 11   | 1001108588  | 8   | WASHER-SPEC,FLAT,3/8               |     |
| 12   | 10238848    | 2   | WINDOW STAY BRACKET                |     |
| 13   | 10139225    | 2   | RUBBER GASKET                      |     |
| 14   | 10238849    | 2   | WINDOW STAY                        |     |
| 15   | 10837396    | 2   | KNOB                               |     |
| 16   | 10139222    | 4   | WINDOW SLEEVE                      |     |

FIGURE 6-5. WINDOW ASSEMBLY



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FIGURE 6-5. WINDOW ASSEMBLY

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                      | REV |
|------|-------------|-----|------------------------------------------------------------------|-----|
| 1    | 10867540    | 1   | RIGHT SIDE GLASS, SLIDING                                        |     |
| 2    | 1012354     | 1   | RIGHT SIDE SEAL                                                  |     |
| 3    | 10236318    | 1   | SKYLIGHT GLASS                                                   |     |
| 4    | 10867150    | 1   | ROOF SEAL, (self stick)                                          |     |
| 5    | 1012362     | 1   | REAR SEAL                                                        |     |
| 6    | 10239478    | 1   | REAR GLASS, (fixed)                                              |     |
| 7    | 1012361     | 1   | LEFT SIDE SEAL, (rear)                                           |     |
| 8    | 10236500    | 1   | LEFT SIDE GLASS, (rear)                                          |     |
| 9    | 10339176    | 1   | GLASS DOOR                                                       |     |
| 11   | 10236499    | 1   | LEFT SIDE GLASS, (front)                                         |     |
| 12   | 1012360     | 1   | LEFT SIDE SEAL, (front)                                          |     |
| 13   | 91344031    | 1   | WINDSHIELD SEAL                                                  |     |
| 14   |             | Ref | HINGED GLASS WINDSHIELD, (See WINDSHIELD ASSEMBLY for Breakdown) |     |

FIGURE 6-6. DOOR ASSEMBLY

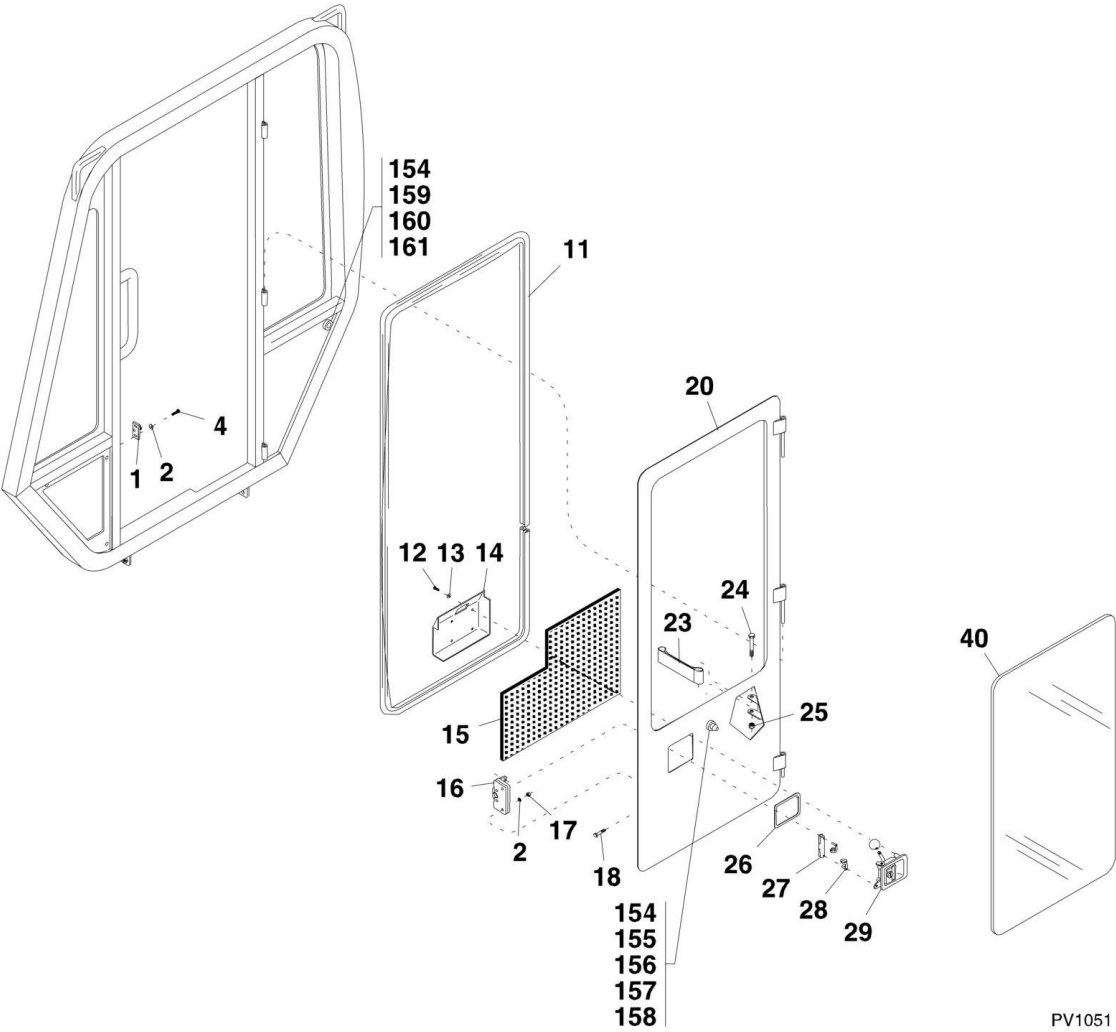
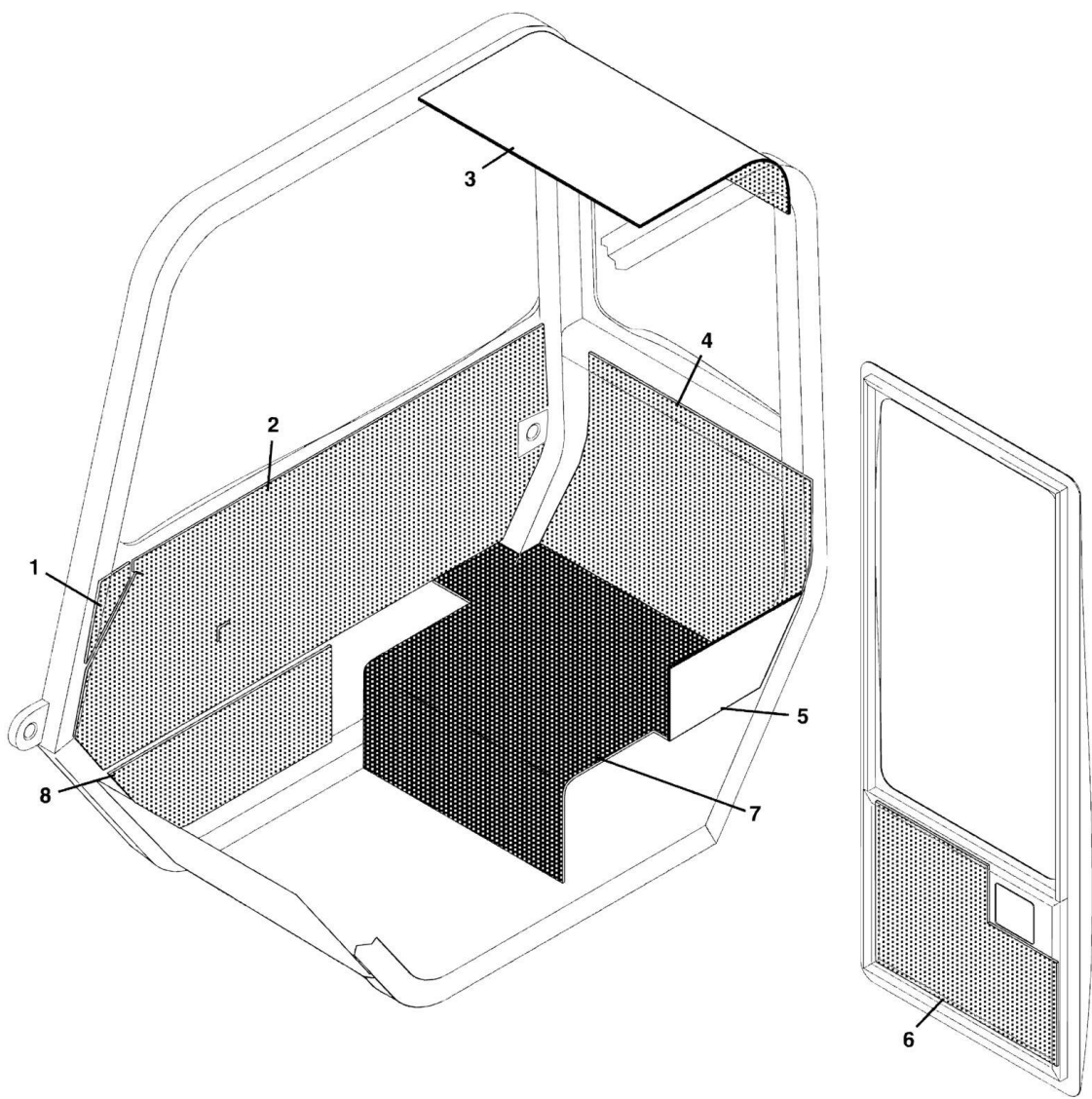


FIGURE 6-6. DOOR ASSEMBLY

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                             | REV |
|------|-------------|-----|-------------------------------------------------------------------------|-----|
|      | 10466041    | 1   | DOOR ASSY, (includes items 2, 11 thru 18, 20, 23, 26 thru 28 & item 40) | AA  |
| 1    | 10837413    | 1   | STRIKER MOUNT                                                           |     |
| 2    | 10701402    | 6   | FLAT WASHER, 1/4                                                        |     |
| 4    | 10700005    | 2   | HEX HD CAPSCREW, 1/4- 20X1                                              |     |
| 11   | 1012365     | 1   | DOOR SEAL                                                               |     |
| 12   | 10702057    | 4   | ROUND HD SLOTTED SCREW, #10-24X3/4                                      |     |
| 13   | 10701400    | 4   | FLAT WASHER, #10                                                        |     |
| 14   | 10837414    | 1   | LATCH COVER                                                             |     |
| 15   |             | Ref | DOOR INSULATION, (See INSULATION INSTALLATION for Breakdown)            |     |
| 16   | 10837412    | 1   | ROTARY LATCH                                                            |     |
| 17   | 10701656    | 2   | HEX LOCKNUT, 1/4-20                                                     |     |
| 18   | 10700007    | 2   | HEX HD CAPSCREW, 1/4- 20X1-1/2                                          |     |
| 20   | 10338913    | 1   | DOOR                                                                    |     |
| 23   | 10837241    | 1   | STRAP                                                                   |     |
| 24   | 10700212    | 2   | HEX HD CAPSCREW, 3/8-16X3, GR5                                          |     |
| 25   | 10701658    | 2   | HEX LOCKNUT, 3/8-16                                                     |     |
| 26   | 10837411    | 1   | LATCH SEAL                                                              |     |
| 27   | 10791534    | 1   | CONNECTING LINK                                                         |     |
| 28   | 10791533    | 2   | SPRING PIN                                                              |     |
| 29   | 91484028    | 1   | PADDLE HANDLE ASSY                                                      |     |
| 29   | 8342813     | 1   | KEY                                                                     |     |
| 40   |             | Ref | GLASS DOOR, (See WINDOW ASSEMBLY for Breakdown)                         |     |
| 154  | 10167749    | 1   | DOOR HOLDER                                                             |     |
| 155  | 10137410    | 1   | DOOR HOLDER GLASS MOUNT                                                 |     |
| 156  | 10704057    | 1   | CAPSCREW, 6-1x35mm, GR8.8                                               |     |
| 157  | 10704606    | 1   | LOCKWASHER, 6mm                                                         |     |
| 158  | 10704706    | 1   | NUT, 6-1mm                                                              |     |
| 159  | 10701308    | 1   | LOCKWASHER, 1/4                                                         |     |
| 160  | 10867541    | 1   | SCREW, 1/4-20X1/2                                                       |     |
| 161  | 10701506    | 1   | HEX NUT, 1/4-20                                                         |     |

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FIGURE 6-7. INSULATION INSTALLATION



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FIGURE 6-7. INSULATION INSTALLATION

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                              | REV |
|------|-------------|-----|--------------------------------------------------------------------------|-----|
| 1    | 10238766    | 1   | RIGHT FRONT INSULATION                                                   |     |
| 2    | 10238767    | 1   | RIGHT SIDE INSULATION                                                    |     |
| 3    | 10238764    | 1   | ROOF INSULATION (SN 0160009654 through 0160016827, Including 0160008714) |     |
| 4    | 10238771    | 1   | REAR INSULATION                                                          |     |
| 5    | 10236765    | 1   | LOWER LEFT REAR INSULATION                                               |     |
| 6    | 10238870    | 1   | LOWER DOOR INSULATION                                                    |     |
| 7    | 10238772    | 1   | SEAT DECK INSULATION                                                     |     |
| 8    | 10238768    | 1   | LOWER RIGHT FRONT INSULATION                                             |     |

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FIGURE 6-8. INSTRUMENT PANEL ASSEMBLY

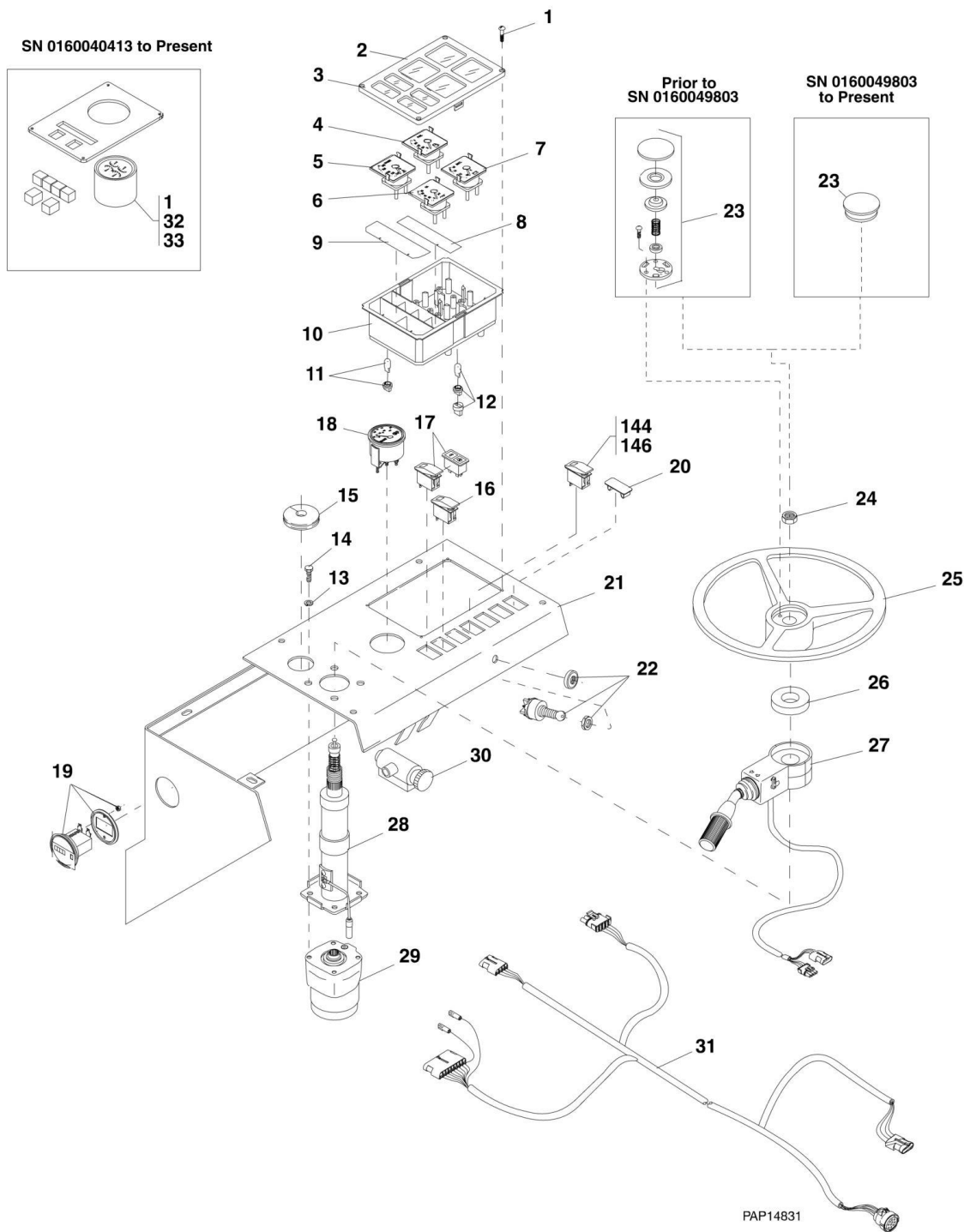


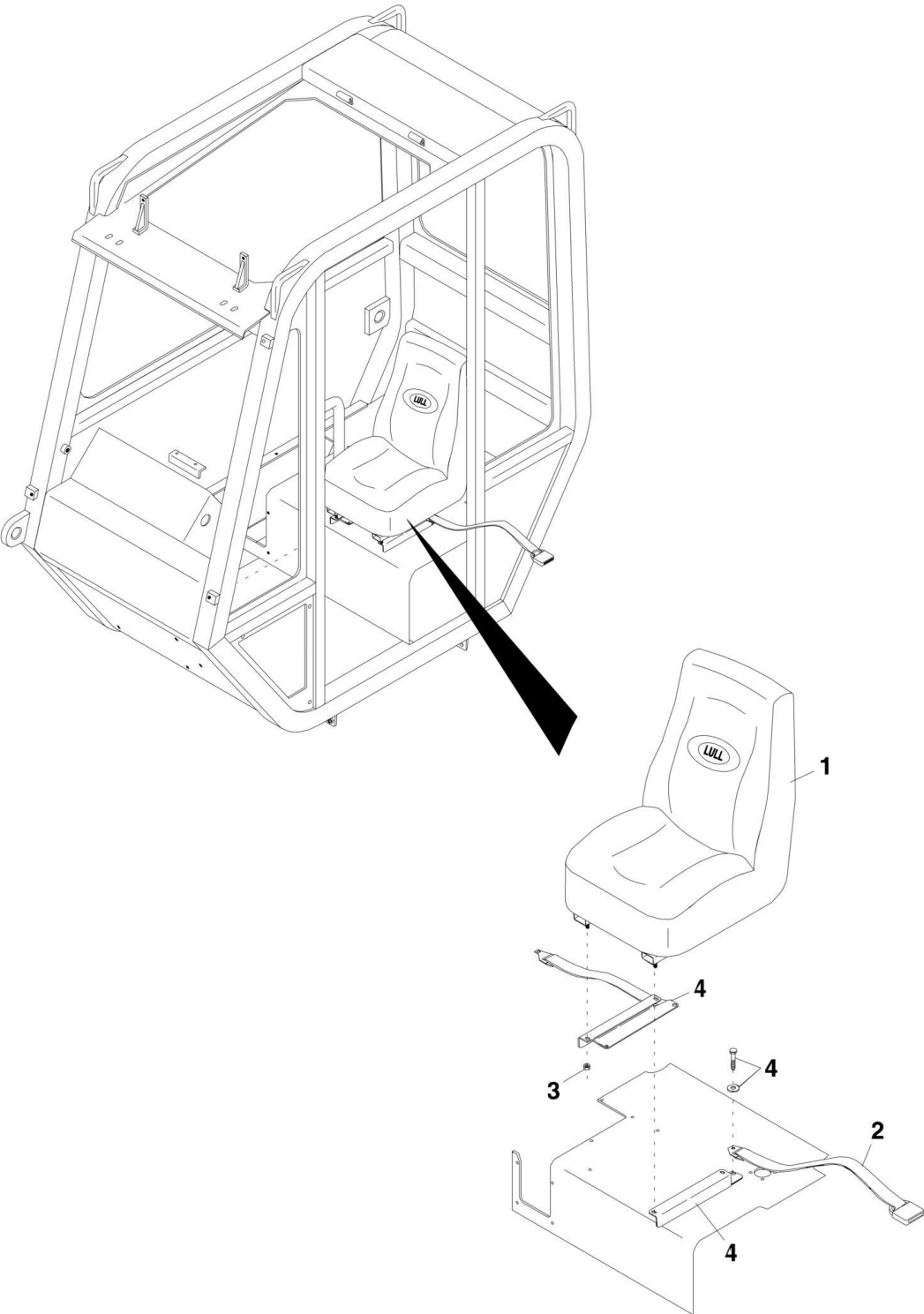


FIGURE 6-8. INSTRUMENT PANEL ASSEMBLY

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                         | REV |
|------|-------------|-----|-----------------------------------------------------------------------------------------------------|-----|
| 1    | 3911012     | 4   | ROUND HD MACHINE SCREW, #10-24X3/4                                                                  |     |
| 1    | 1810003     | 1   | CLUSTER GAUGE, (includes items 2 thru 12 ) (SN 0160009654 through 0160040407, Excluding 0160038521) | A   |
| 1    | 1001113368  | 1   | CLUSTER GAUGE, (includes items 2 thru 12), (Including 0160038521)                                   | D   |
| 1    | 1001118559  | 1   | CLUSTER GAUGE, (includes items 32 & 33) (SN 0160040413 to Present)                                  | A   |
| 2    | 10236830    | 1   | Cluster Gauge Panel                                                                                 |     |
| 3    | N.S.S.      | 1   | BEZEL                                                                                               |     |
| 4    | 10837331    | 1   | FUEL GAUGE                                                                                          |     |
| 5    | 10837332    | 1   | WATER TEMPERATURE GAUGE                                                                             |     |
| 6    | 10837333    | 1   | OIL PRESSURE GAUGE                                                                                  |     |
| 7    | 10837334    | 1   | VOLTMETER GAUGE                                                                                     |     |
| 8    | 2120185     | 1   | INDICATOR LIGHT LENS (SN 0160009654 through 0160040407, Excluding 0160038521)                       |     |
| 8    | 1001113367  | 1   | INDICATOR LIGHT LENS, (Including 0160038521)                                                        |     |
| 9    | 10238221    | 1   | INDICATOR LIGHT LENS                                                                                |     |
| 10   | N.S.S.      | 1   | CLUSTER GAUGE BODY                                                                                  |     |
| 11   | N.S.S.      | 6   | LIGHT SOCKET                                                                                        |     |
| 12   | N.S.S.      | 2   | LIGHT SOCKET                                                                                        |     |
| 13   | 10701310    | 4   | LOCKWASHER, 3/8                                                                                     |     |
| 14   | 8303621     | 4   | HEX HD CAPSCREW, 3/8-16X1-1/2                                                                       |     |
| 15   | 10732575    | 4   | GROMMET                                                                                             |     |
| 16   | 10138094    | 1   | ROCKER SWITCH, (transmission declutch)                                                              |     |
| 17   | 4360608     | 1   | ROCKER SWITCH, (engine fault reset ) (SN 0160009654 through 0160040407, Excluding 0160038521)       |     |
| 17   | 1001114082  | 1   | INDICATOR, (Including 0160038521)                                                                   |     |
| 18   | 10166982    | 1   | TRANSMISSION OIL TEMP GAUGE                                                                         |     |
| 19   | 10836804    | 1   | HOURLMETER GAUGE                                                                                    |     |
| 20   | 10836512    | 5   | HOLE PLUG                                                                                           |     |
| 21   | 3380579     | 1   | INSTRUMENT PANEL                                                                                    |     |
| 22   | 1101202     | 1   | IGNITION SWITCH, (includes 2 keys)                                                                  |     |
| 22   | 1101203     | 2   | KEY                                                                                                 |     |
| 23   | 10718141    | 1   | HORN BUTTON (Prior to SN 0160049803)                                                                |     |
| 23   | 7138878     | 1   | HORN BUTTON (SN 0160049803 to Present)                                                              |     |
| 24   | 10713009    | 1   | STEERING NUT (Prior to SN 0160049803)                                                               |     |
| 24   | 8305916     | 1   | STEERING NUT (SN 0160049803 to Present)                                                             |     |
| 25   | 10728704    | 1   | STEERING WHEEL (Prior to SN 0160049803)                                                             |     |
| 25   | 7138836     | 1   | STEERING WHEEL (SN 0160049803 to Present)                                                           |     |
| 26   | 10134667    | 1   | RUBBER MOUNTING PAD                                                                                 |     |
| 27   | 8223049     | 1   | ELECTRIC SHIFT CONTROL                                                                              |     |
| 28   |             | Ref | STEERING COLUMN, (See CONTROLS SECTION for Breakdown)                                               |     |
| 29   |             | Ref | STEER MOTOR, (See HYDRAULIC CIRCUITS SECTION for Breakdown)                                         |     |
| 30   |             | Ref | PARK BRAKE VALVE, (See HYDRAULIC CIRCUITS SECTION for Breakdown)                                    |     |
| 31   | 4923242     | 1   | CIRCUIT BOARD AND SHIFTER HARNESS                                                                   |     |
| 32   | 91404335    | 6   | BULB                                                                                                |     |
| 33   | 70021231    | 1   | 4-IN-1 GAUGE                                                                                        |     |
| 144  | 10836511    | 1   | ROCKER SWITCH, (windshield washer), (enclosed cab)                                                  |     |
| 146  | 10837308    | 1   | SWITCH, (enclosed cab)                                                                              |     |

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**FIGURE 6-9. OPERATOR'S SEAT (SN 0160009654 through 0160013146, Including 0160008714)**



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**FIGURE 6-9. OPERATOR'S SEAT (SN 0160009654 through 0160013146, Including 0160008714)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                                                 | REV |
|------|-------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 1    | N.S.S.      | NLA | OPERATORS SEAT, (no longer available, use seat Kit 2915171 for replacement See OPERATOR'S SEAT) <b>(SN 0160013147 to Present)</b>                           |     |
| 1    | N.S.S.      | NLA | OPERATORS SUSPENSION SEAT, (if equipped), (no longer available, use seat Kit 2915171 for replacement See OPERATOR'S SEAT) <b>(SN 0160013147 to Present)</b> |     |
| 2    | 10239367    | 1   | 2IN SEAT BELT                                                                                                                                               |     |
| 2    | 10725464    | 1   | 3IN SEAT BELT                                                                                                                                               |     |
| 3    | 10705107    | 4   | HEX LOCKNUT, 5/16-18                                                                                                                                        |     |
| 4    |             | Ref | BRACKETS AND MOUNTING HARDWARE, (See OPERATORS COMPARTMENT ASSEMBLY for Breakdown)                                                                          |     |

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FIGURE 6-10. OPERATOR'S SEAT (SN 0160013147 to Present)

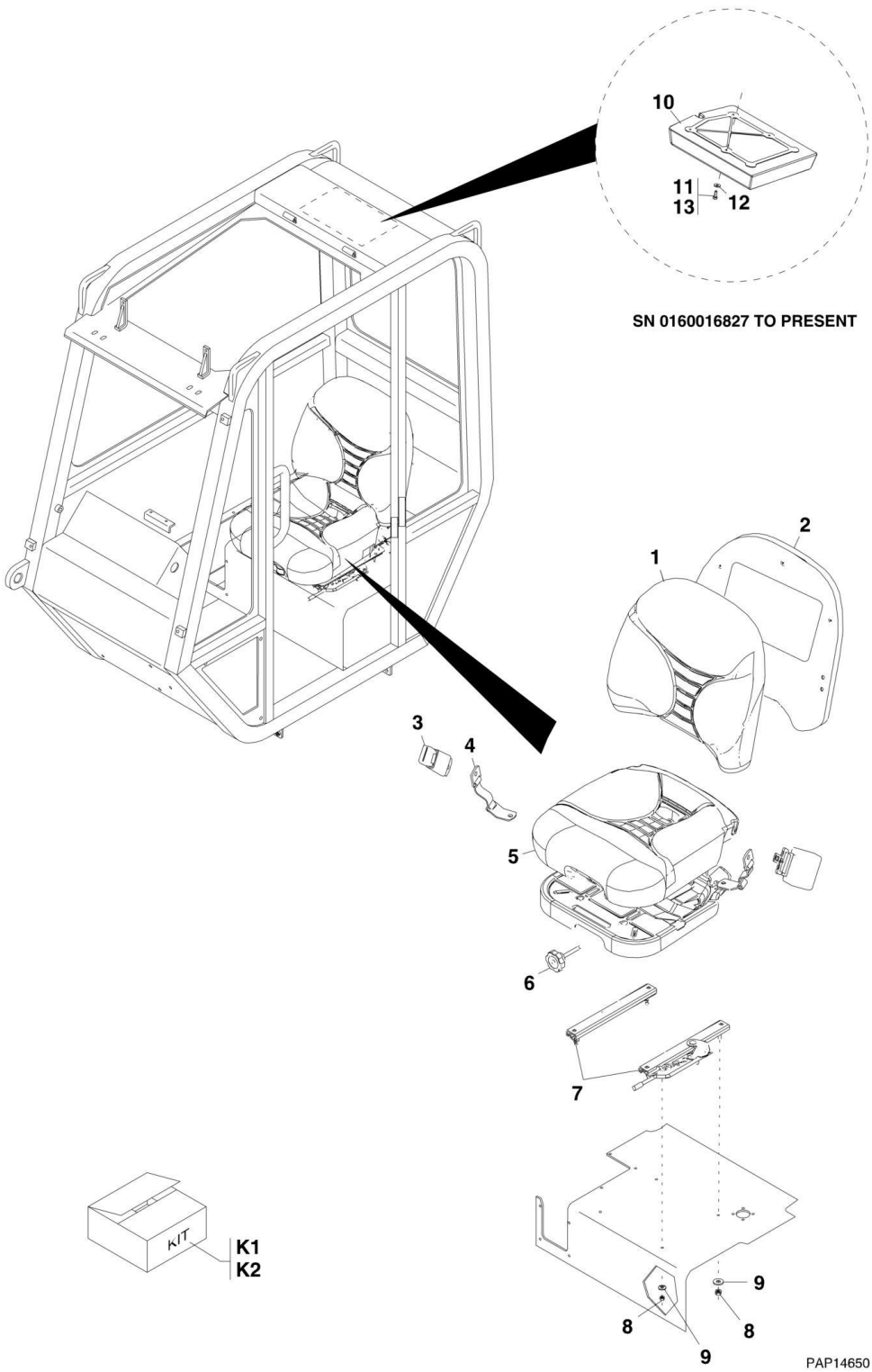
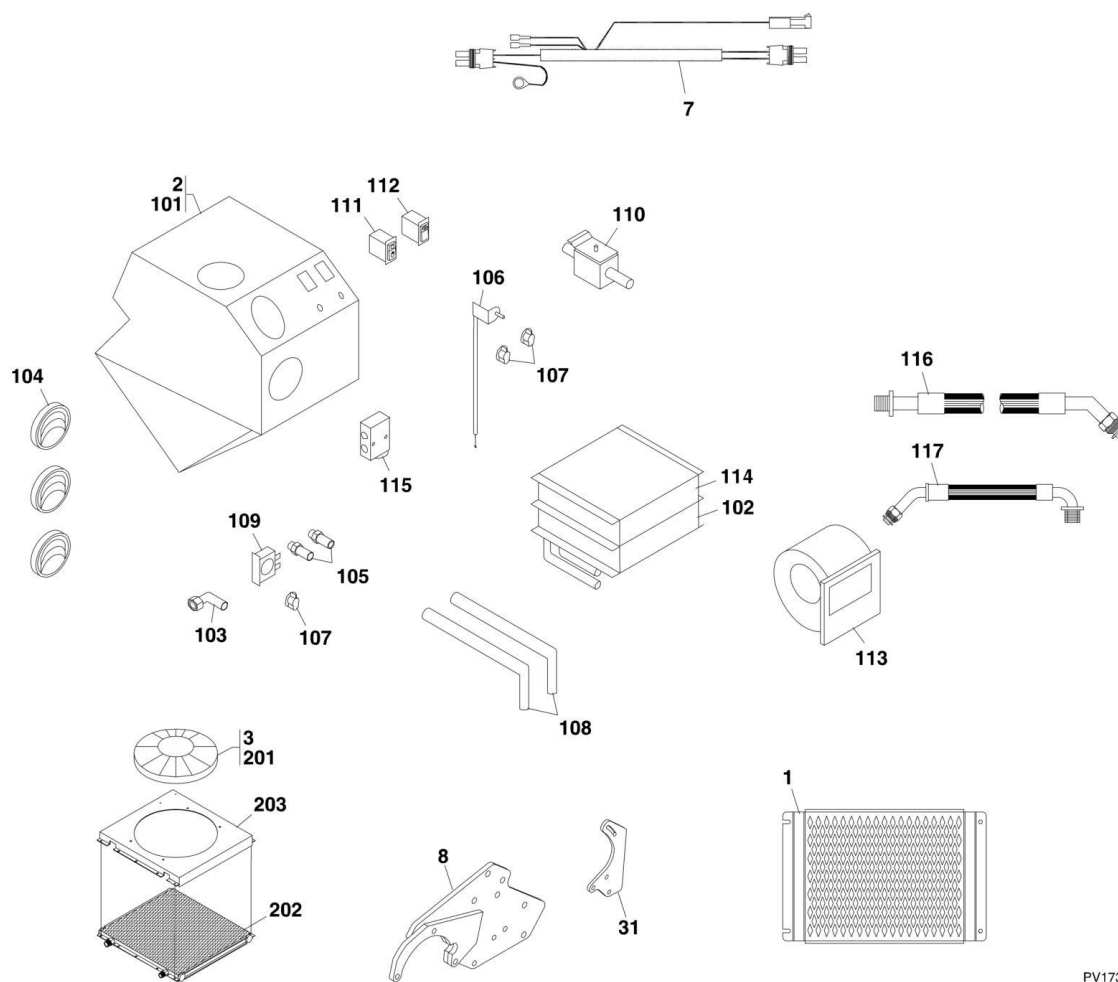


FIGURE 6-10. OPERATOR'S SEAT (SN 0160013147 to Present)

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                 | REV |
|------|-------------|-----|-------------------------------------------------------------------------------------------------------------|-----|
|      | 3980039     | 1   | SUSPENSION SEAT , (includes items 1 thru 7) <b>(SN 0160009654 through 0160034246, Including 0160008714)</b> | C   |
|      | 1001101085  | 1   | SUSPENSION SEAT, (includes items 1 thru 7) <b>(SN 0160034247 to Present)</b>                                | D   |
| 1    | 7026900     | 1   | BACK CUSHION KIT                                                                                            |     |
| 2    | 7026902     | 1   | BACK PANEL KIT                                                                                              |     |
| 3    | 7026905     | 1   | SEAT BELT KIT                                                                                               |     |
| 3    | 91563164    | 1   | SEAT BELT, 3IN, (California Only), (not included with seat)                                                 |     |
| 4    | 7026906     | 1   | TETHER KIT                                                                                                  |     |
| 5    | 7026901     | 1   | SEAT CUSHION KIT                                                                                            |     |
| 6    | 7026799     | 1   | KNOB KIT                                                                                                    |     |
| 7    | 7026798     | 1   | SLIDE KIT                                                                                                   |     |
| 8    | 8305626     | 4   | HEX LOCKNUT, 5/16-18                                                                                        |     |
| 9    | 8307106     | 4   | PLAIN WASHER, 5/16                                                                                          |     |
| 10   | 0860520     | 1   | MANUAL STORAGE BOX <b>(SN 0160016827 to Present)</b>                                                        |     |
| 11   | 0641406     | 4   | HEX HD CAPSCREW, 1/4-20X3/4 <b>(SN 0160016827 to Present)</b>                                               |     |
| 12   | 4751400     | 4   | PLAIN WASHER, 1/4 <b>(SN 0160016827 to Present)</b>                                                         |     |
| 13   | 0100011     | AR  | LOCTITE 242, (apply to item 11) <b>(SN 0160016827 to Present)</b>                                           |     |
| K1   | 2915171     | 1   | SUSPENSION SEAT REPLACEMENT KIT, (includes seat p/n 3980039 & items 8 & 9)                                  |     |
| K2   | 70023139    | 1   | SEAT BELT KIT, 3IN, (California Only), (includes retractor and female ends)                                 |     |

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**FIGURE 6-11. HEATER AND AIR CONDITIONING SYSTEM (Prior to SN 0160040413, Excluding 0160037824 and 0160038521)**



**FIGURE 6-11. HEATER AND AIR CONDITIONING SYSTEM (Prior to SN 0160040413, Excluding 0160037824 and 0160038521)**

| ITEM | PART NUMBER | QTY   | DESCRIPTION                                                                                                                                       | REV |
|------|-------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|      | 2902501     | 1     | HEATER/AIR CONDITIONING KIT , (includes all items excluding items 8 & 31 thru 36) <b>(SN 0160009654 through 0160033762, Including 0160008714)</b> | C   |
|      | 1001096356  | 1     | HEATER/AIR CONDITIONING KIT , (includes items 1 thru 36) <b>(SN 0160033763 through 0160040407, Excluding 0160037824 and 0160038521)</b>           | A   |
| 1    | 70020177    | 1     | CONDENSER GUARD                                                                                                                                   |     |
| 2    | 7029793     | 1     | HEATER AND A/C UNIT, (includes items 101 thru 117)                                                                                                |     |
| 3    | 70020178    | 1     | CONDENSER ASSY, (includes items 201 thru 203)                                                                                                     |     |
| 4    | 70020179    | 1     | COMPRESSOR , (not shown) <b>(SN 0160033763 through 0160040407, Excluding 0160037824 and 0160038521)</b>                                           |     |
| 5    | 70020180    | 1     | DRIER, (not shown)                                                                                                                                |     |
| 6    | 70023165    | 1     | PRESSURE SWITCH, (not shown)                                                                                                                      |     |
| 7    | 70020181    | 1     | WIRE HARNESS                                                                                                                                      |     |
| 8    | 1001099112  | 1     | COMPRESSOR MOUNT <b>(SN 0160033763 through 0160040407, Excluding 0160037824 and 0160038521)</b>                                                   |     |
| 9    | N.S.S.      | 1     | DRIER BRACKET, (not shown)                                                                                                                        |     |
| 10   | N.S.S.      | 1     | CONDENSER MOUNT, (not shown)                                                                                                                      |     |
| 11   | N.S.S.      | 1     | CONDENSER MOUNT, (not shown)                                                                                                                      |     |
| 12   | 70023161    | 1     | HOSE ASSY, EVAP/DRIER, (not shown)                                                                                                                |     |
| 13   | 70023162    | 1     | HOSE ASSY, COND/DRIER, (not shown)                                                                                                                |     |
| 14   | 70023163    | 1     | HOSE ASSY, COND/COMP, (not shown)                                                                                                                 |     |
| 15   | 70023164    | 1     | HOSE ASSY, EVAP/COMP, (not shown)                                                                                                                 |     |
| 16   | N.S.S.      | 22 ft | HEATER HOSE, 5/8, (not shown)                                                                                                                     |     |
| 17   | N.S.S.      | 2 ft  | DRAIN TUBE, (not shown)                                                                                                                           |     |
| 18   | N.S.S.      | 4     | HOSE CLAMP, (not shown)                                                                                                                           |     |
| 19   | N.S.S.      | 1     | BARBED TEE FITTING, (not shown)                                                                                                                   |     |
| 20   | N.S.S.      | 1     | ELBOW, 90, (not shown)                                                                                                                            |     |
| 21   | N.S.S.      | 4     | CONDENSER FAN GUARD SPACER, (not shown)                                                                                                           |     |
| 22   | N.S.S.      | 8     | TIE WRAP, (not shown)                                                                                                                             |     |
| 23   | N.S.S.      | 35    | TIE WRAP, (not shown)                                                                                                                             |     |
| 24   | 70020182    | 1     | BELT, (not shown)                                                                                                                                 |     |
| 25   | N.S.S.      | 3     | HEX HD CAPSCREW, 3/8-16X1-1/2, (not shown)                                                                                                        |     |
| 26   | N.S.S.      | 3     | LOCKWASHER, 3/8, (not shown)                                                                                                                      |     |
| 27   | N.S.S.      | 3     | HEX NUT, 3/8-16, (not shown)                                                                                                                      |     |
| 28   | N.S.S.      | 4     | HEX HD CAPSCREW, 1/4-20X1-3/4, (not shown)                                                                                                        |     |
| 29   | N.S.S.      | 4     | LOCKWASHER, 7/16, (not shown)                                                                                                                     |     |
| 30   | N.S.S.      | 4     | HEX NUT, 1/4-20, (not shown)                                                                                                                      |     |
| 31   | 1001098038  | 1     | ALTERNATOR BRACKET , (not shown) <b>(SN 0160033763 through 0160040407, Excluding 0160037824 and 0160038521)</b>                                   |     |
| 32   | N.S.S.      | 1     | HEX HD CAPSCREW, 10X90mm, GR8.8 , (not shown) <b>(SN 0160033763 through 0160040407, Excluding 0160037824 and 0160038521)</b>                      |     |
| 33   | 70023167    | 1     | IDLER PULLEY, (not shown) <b>(SN 0160033763 through 0160040407)</b>                                                                               |     |
| 34   | 91404238    | 1     | SLEEVE, (not shown) <b>(SN 0160033763 through 0160040407)</b>                                                                                     |     |
| 35   | 70023166    | 1     | PULLEY SPACER, (not shown) <b>(SN 0160033763 through 0160040407)</b>                                                                              |     |
| 36   | 1001097697  | 1     | COMPRESSOR MOUNTING PLATE , (not shown) <b>(SN 0160033763 through 0160040407, Excluding 0160037824 and 0160038521)</b>                            |     |

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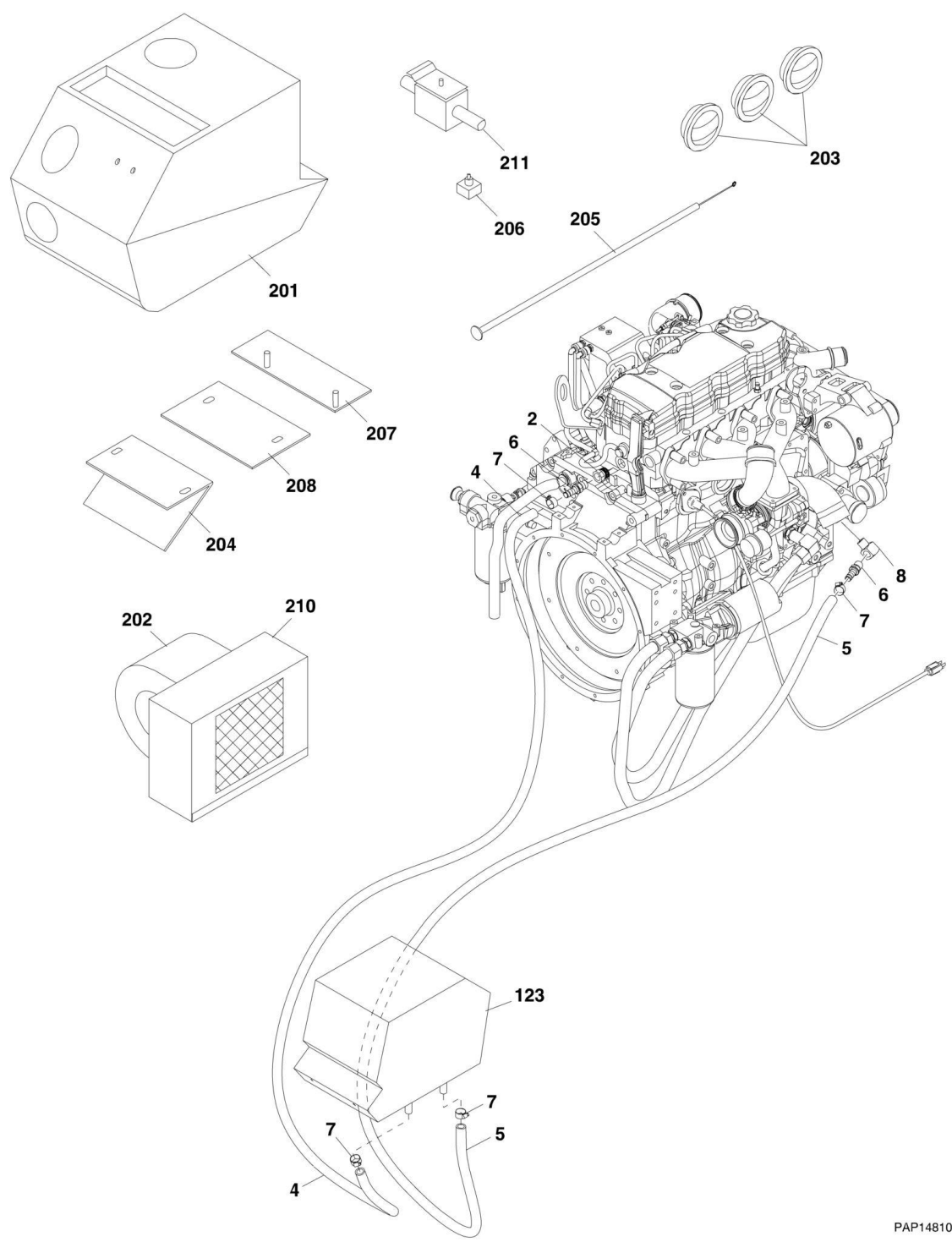
| ITEM | PART NUMBER | QTY | DESCRIPTION        | REV |
|------|-------------|-----|--------------------|-----|
| 101  | 7029794     | 1   | HOUSING            |     |
| 102  | 7029795     | 1   | HEATER COIL        |     |
| 103  | 7029796     | 1   | FITTING, 90        |     |
| 104  | 7029797     | 3   | DIFFUSER           |     |
| 105  | 7029798     | 2   | BULK HEAD          |     |
| 106  | 7029799     | 1   | CONTROL CABLE      |     |
| 107  | 7029800     | 2   | CONTROL KNOB       |     |
| 108  | 7029801     | 2   | HEATER HOSE        |     |
| 109  | 7029802     | 1   | THERMOSTAT         |     |
| 110  | 7029803     | 1   | WATER VALVE        |     |
| 111  | 7029804     | 1   | HEATER/COOL SWITCH |     |
| 112  | 7029805     | 1   | FAN SWITCH         |     |
| 113  | 7029806     | 1   | MINI BLOWER        |     |
| 114  | 7029807     | 1   | A/C COIL           |     |
| 115  | 7029808     | 1   | EXPANSION VALVE    |     |
| 116  | 7029809     | 1   | HOSE ASSY          |     |
| 117  | 7029810     | 1   | HOSE ASSY          |     |
| 201  | 70020183    | 1   | PULLER FAN         |     |
| 202  | 70020184    | 1   | CONDENSER COIL     |     |
| 203  | 70020185    | 1   | FAN/COIL SHROUD    |     |





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FIGURE 6-12. HEATER AND AIR CONDITIONING SYSTEM (SN 0160040413 to Present, Including 0160037824 and 0160038521)



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**FIGURE 6-12. HEATER AND AIR CONDITIONING SYSTEM (SN 0160040413 to Present, Including 0160037824 and 0160038521)**

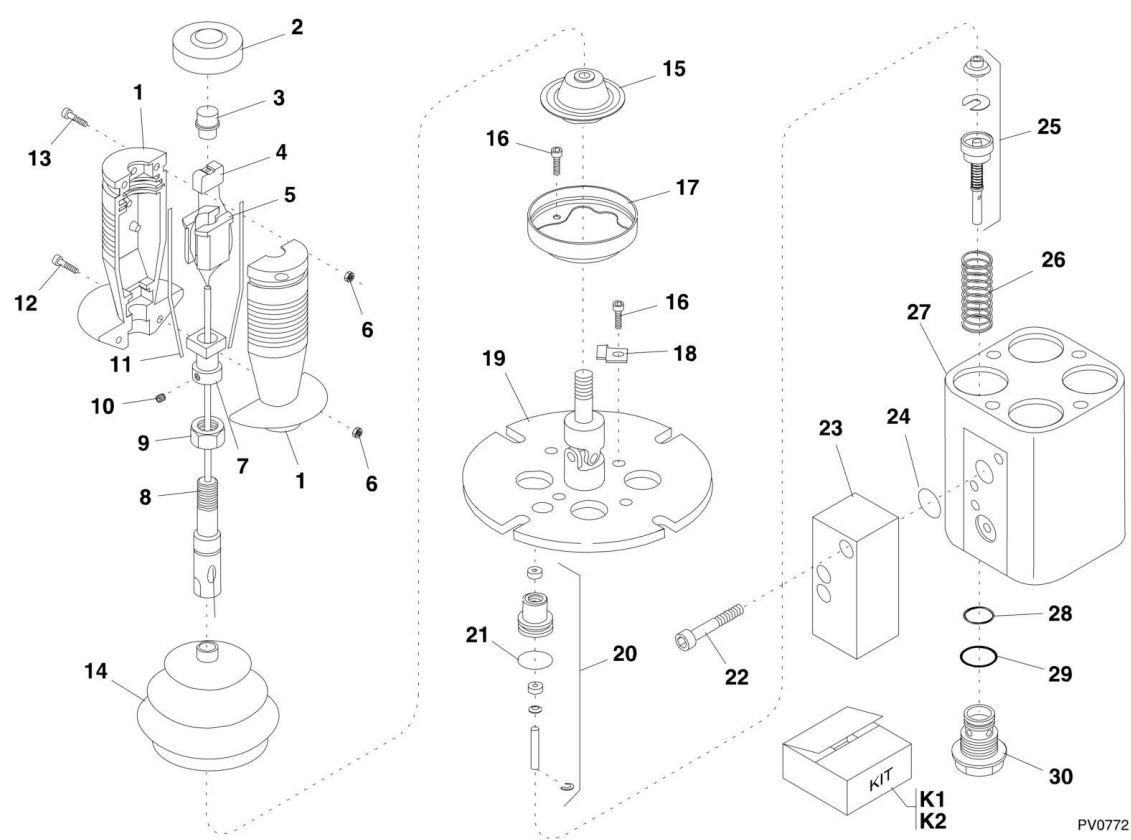
| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                       | REV |
|------|-------------|-----|-----------------------------------------------------------------------------------|-----|
|      | 1001104456  | Ref | CAB HEATER INSTALLATION, (not available to order, see items 1 thru 8 for service) | C   |
| 2    | 2220282     | 1   | REDUCER                                                                           | AA  |
| 4    | 1001103995  | 1   | SUPPLY HOSE                                                                       |     |
| 5    | 1001103996  | 1   | RETURN HOSE                                                                       |     |
| 6    | 1001104685  | 2   | BARBED FITTING                                                                    |     |
| 7    | 8405007     | 4   | GEAR CLAMP                                                                        |     |
| 8    | 1001117214  | 1   | ADAPTER                                                                           |     |
| 123  | 10268997    | 1   | HEATER ASSY, (includes items 201 thru 211)                                        |     |
| 201  | 1100790     | 1   | HOUSING                                                                           |     |
| 202  | 7029806     | 1   | BLOWER                                                                            |     |
| 203  | 7029797     | 3   | LOUVERS                                                                           |     |
| 204  | 1100794     | 1   | ANGLE MOUNT                                                                       |     |
| 205  | 1100792     | 1   | CONTROL CABLE                                                                     |     |
| 206  | 70023117    | 1   | SWITCH                                                                            |     |
| 207  | 1100796     | 1   | STUD MOUNT                                                                        |     |
| 208  | 1100795     | 1   | HEATER BOX PAD                                                                    |     |
| 209  | 1100797     | 1   | WIRE HARNESS, (not shown)                                                         |     |
| 210  | 1100793     | 1   | HEAT CORE                                                                         |     |
| 211  | 7029803     | 1   | WATER VALVE                                                                       |     |



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FIGURE 7-1. JOYSTICK (Prior to SN 0160048698)



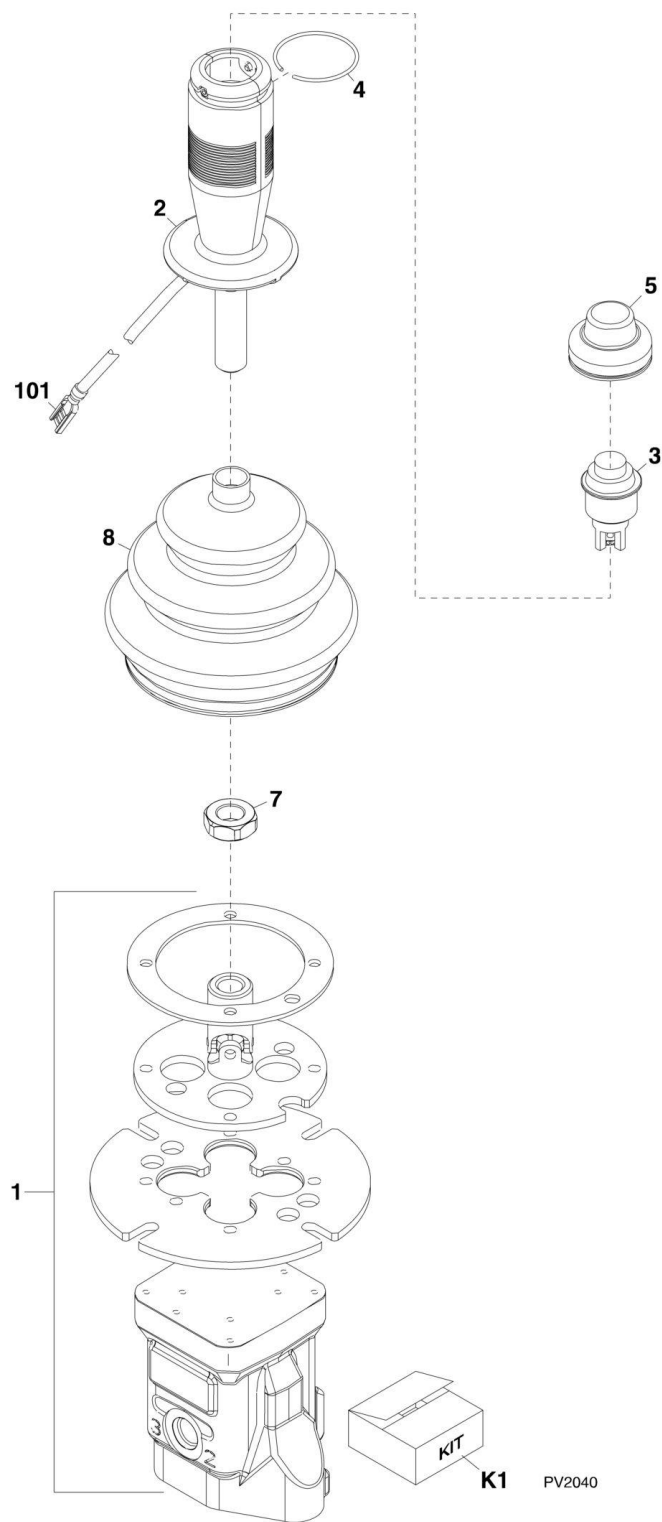
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**FIGURE 7-1. JOYSTICK (Prior to SN 0160048698)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                    | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------------|-----|
|      | 10239817    | NLA | JOYSTICK, (no longer available, use 1001141420 for replacement or items 1 thru 30 for service) |     |
|      | 10732693    | 1   | HANDLE ASSEMBLY, (includes items 1 thru 13)                                                    |     |
| 1    | 10733095    | 2   | HALF HANDLE                                                                                    |     |
| 2    | 10731489    | 1   | CAP                                                                                            |     |
| 3    | 10732206    | 1   | PUSH BUTTON                                                                                    |     |
| 4    | 10731598    | 1   | SWITCH                                                                                         |     |
| 5    | N.S.S.      | 2   | GUIDE                                                                                          |     |
| 6    | 10731481    | 4   | HEX NUT, M3                                                                                    |     |
| 7    | N.S.S.      | 1   | LEVER JOINT                                                                                    |     |
| 8    | N.S.S.      | 1   | STEM                                                                                           |     |
| 9    | 10731483    | 1   | HEX JAM NUT, M10X1.0                                                                           |     |
| 10   | 10731482    | 1   | SETSCREW, M4X4                                                                                 |     |
| 11   | N.S.S.      | 2   | SEAL                                                                                           |     |
| 12   | 10731488    | 2   | SOCKET HD CAPSCREW, M3X10                                                                      |     |
| 13   | 10731486    | 2   | SOCKET HD CAPSCREW, M3X16                                                                      |     |
| 14   | 10731477    | 1   | BOOT                                                                                           |     |
| 15   | 10733094    | 1   | CAM                                                                                            |     |
| 16   | 10731472    | 6   | SOCKET HD CAPSCREW                                                                             |     |
| 17   | 10732204    | 1   | RETAINER                                                                                       |     |
| 18   | 10732205    | 4   | CLIP                                                                                           |     |
| 19   | 10731473    | 1   | FLANGE                                                                                         |     |
| 20   | 10731462    | 4   | GUIDE ASSEMBLY                                                                                 |     |
| 21   | Kit         | 1   | O-RING                                                                                         |     |
| 22   | 10731475    | 3   | SOCKET HD CAPSCREW                                                                             |     |
| 23   | 10732203    | 1   | MANIFOLD                                                                                       |     |
| 24   | Kit         | 1   | O-RING                                                                                         |     |
| 25   | 10732201    | 4   | SPRING PACK                                                                                    |     |
| 26   | 10731474    | 4   | SPRING                                                                                         |     |
| 27   | N.S.S.      | 1   | BODY                                                                                           |     |
| 28   | Kit         | 4   | O-RING                                                                                         |     |
| 29   | Kit         | 4   | O-RING                                                                                         |     |
| 30   | 10732202    | 4   | PORTED GUIDE                                                                                   |     |
| K1   | 10166255    | 1   | JOYSTICK HANDLE HARDWARE KIT, (includes items 6, 9, 10, 12 & 13)                               |     |
| K2   | 10732578    | 1   | SEAL KIT, (includes items 21, 24, 28 & 29)                                                     |     |
| N1   | Note        | Ref | <b>QUANTITIES SHOWN ARE FOR ONE JOYSTICK ONLY.</b>                                             |     |

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FIGURE 7-2. JOYSTICK (SN 0160048698 to Present)





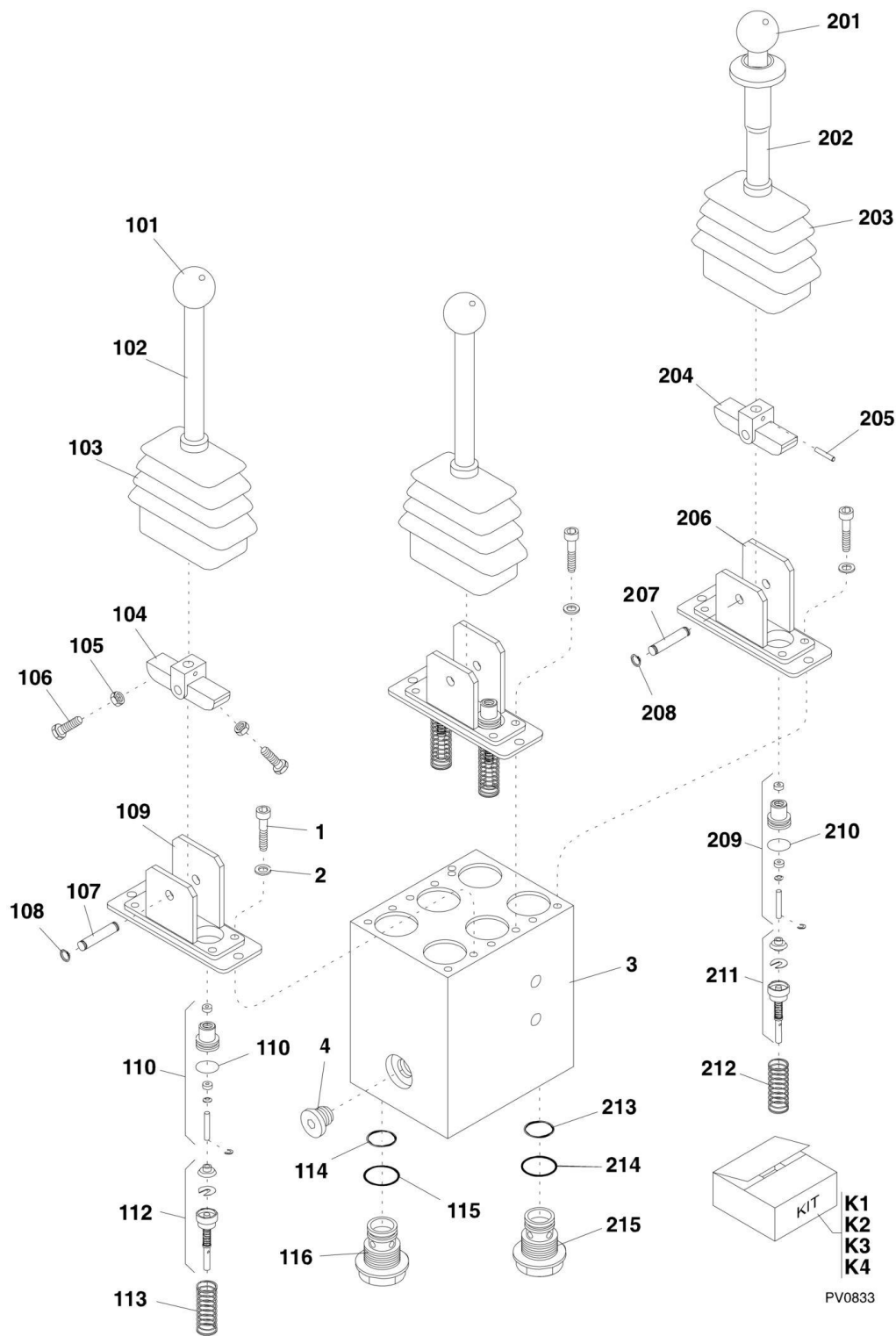
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**FIGURE 7-2. JOYSTICK (SN 0160048698 to Present)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                             | REV |
|------|-------------|-----|-------------------------------------------------------------------------|-----|
|      | 1001141420  | 1   | JOYSTICK, (includes items 1 thru 8)                                     | A   |
| 1    | 83664129    | 1   | MOUNTING PLATE ASSEMBLY, (includes valve, mounting plates and hardware) |     |
| 2    | Kit         | 1   | HANDLE ASSEMBLY, (includes hardware)                                    |     |
| 3    | Kit         | 1   | SWITCH ASSEMBLY                                                         |     |
| 4    | Kit         | 1   | CIRCLIP                                                                 |     |
| 5    | Kit         | 1   | CAP                                                                     |     |
| 6    | Kit         | 1   | TIE-STRAP, (not shown)                                                  |     |
| 7    | Kit         | 1   | NUT                                                                     |     |
| 8    | Kit         | 1   | BELLOW                                                                  |     |
| 101  | 10721702    | 2   | FEMALE TERMINAL                                                         |     |
| K1   | 70024557    | 1   | HANDLE REPAIR KIT, (includes 2 thru 8)                                  |     |

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FIGURE 7-3. FRAME LEVEL AND OUTRIGGER JOYSTICK ASSEMBLY (Prior to SN 0160048698)



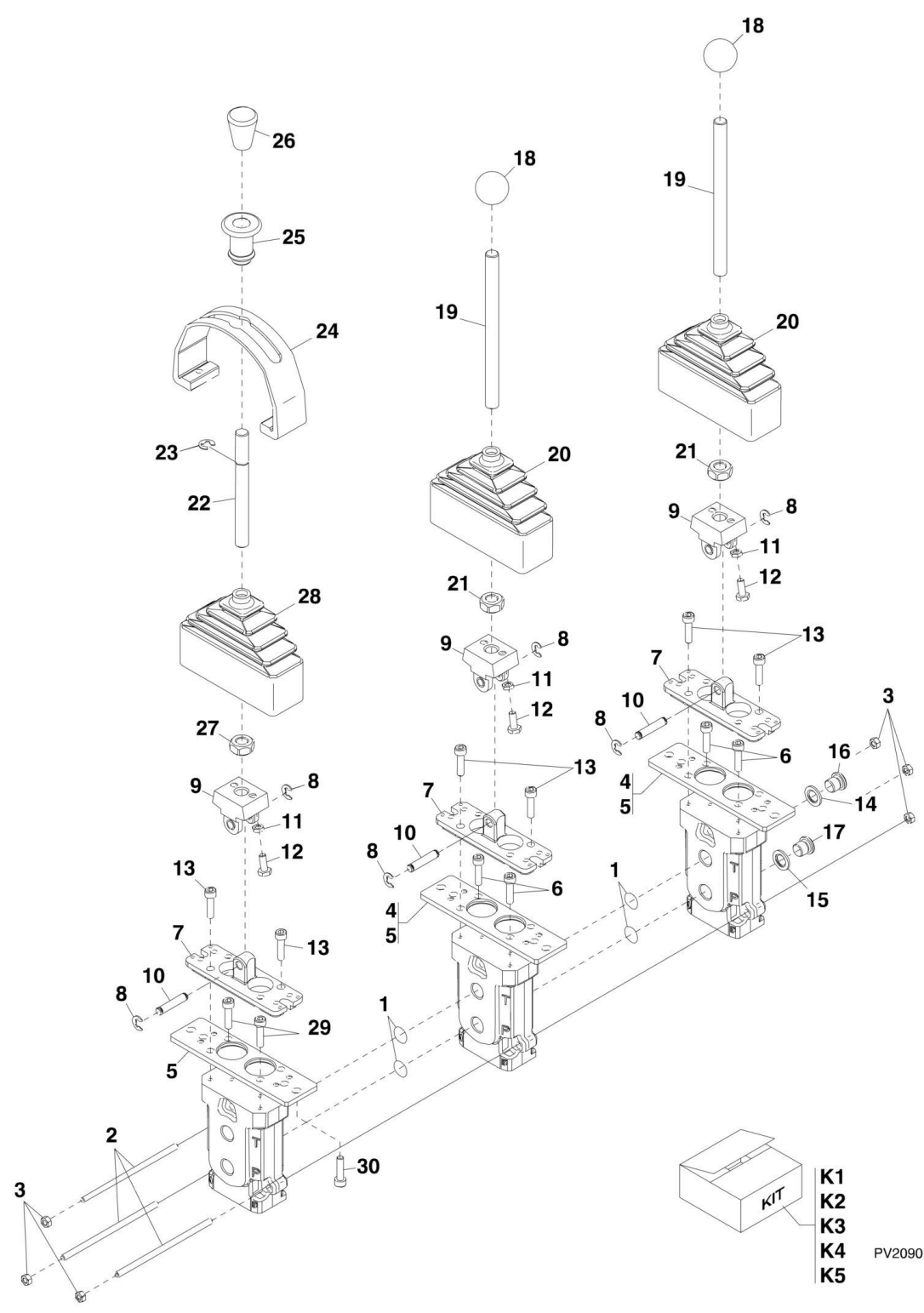
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**FIGURE 7-3. FRAME LEVEL AND OUTRIGGER JOYSTICK ASSEMBLY (Prior to SN 0160048698)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                            | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------------------------------------|-----|
|      | 10266929    | NLA | 3 HANDLE SINGLE AXIS CONTROL VALVE, (no longer available, use Kit K4 for replacement or items 1 thru 4 for service)    | C   |
| 1    | 10732548    | 12  | CAPSCREW                                                                                                               |     |
| 2    | 10732549    | 12  | WASHER                                                                                                                 |     |
| 3    | N.S.S.      | 1   | BODY                                                                                                                   |     |
| 4    | 10725691    | 1   | PLUG                                                                                                                   |     |
|      | 10731444    | NLA | OUTRIGGER CONTROL VALVE ASSEMBLY, (no longer available, use Kit K4 for replacement or items 101 thru 116 for service)  |     |
| 101  | 10732543    | 1   | KNOB                                                                                                                   |     |
| 102  | 10732211    | 1   | LEVER, (includes nut)                                                                                                  |     |
| 102  | 10732212    | 1   | METRIC NUT                                                                                                             |     |
| 103  | 10732544    | 1   | RUBBER BOOT                                                                                                            |     |
| 104  | 10732208    | 1   | CAM                                                                                                                    |     |
| 105  | 10732213    | 2   | METRIC JAM NUT                                                                                                         |     |
| 106  | 10732214    | 2   | CAPSCREW                                                                                                               |     |
| 107  | 10731463    | 1   | PIVOT PIN, (includes item 108)                                                                                         |     |
| 108  | 10731464    | 2   | CIRCLIP                                                                                                                |     |
| 109  | 10732210    | 1   | FLANGE                                                                                                                 |     |
| 110  | 10731462    | 1   | GUIDE ASSEMBLY                                                                                                         |     |
| 111  | Kit         | 1   | O-RING                                                                                                                 |     |
| 112  | 10732201    | 1   | SPRING PACK                                                                                                            |     |
| 113  | 10732215    | 1   | SPRING                                                                                                                 |     |
| 114  | Kit         | 1   | O-RING                                                                                                                 |     |
| 115  | Kit         | 1   | O-RING                                                                                                                 |     |
| 116  | 10732202    | 1   | PORTED GUIDE                                                                                                           |     |
|      | 10731407    | NLA | FRAME TILT CONTROL VALVE ASSEMBLY, (no longer available, use Kit K4 for replacement or items 201 thru 215 for service) |     |
| 201  | 10732543    | 1   | KNOB                                                                                                                   |     |
| 202  | 10732545    | 1   | LEVER ASSEMBLY                                                                                                         |     |
| 203  | 10732544    | 1   | RUBBER BOOT                                                                                                            |     |
| 204  | 10732546    | 1   | CAM, (includes item 205)                                                                                               |     |
| 205  | 10732547    | 1   | PIN                                                                                                                    |     |
| 206  | 10731463    | 1   | PIVOT PIN, (includes item 207)                                                                                         |     |
| 207  | 10731464    | 2   | CIRCLIP                                                                                                                |     |
| 208  | N.S.S.      | 1   | FLANGE                                                                                                                 |     |
| 209  | 10731462    | 2   | GUIDE ASSEMBLY                                                                                                         |     |
| 210  | Kit         | 1   | O-RING                                                                                                                 |     |
| 211  | 10732201    | 2   | SPRING PACK                                                                                                            |     |
| 212  | 10732215    | 1   | SPRING                                                                                                                 |     |
| 213  | Kit         | 2   | O-RING                                                                                                                 |     |
| 214  | Kit         | 2   | O-RING                                                                                                                 |     |
| 215  | 10732202    | 2   | PORTED GUIDE                                                                                                           |     |
| K1   | 10732207    | 1   | OUTRIGGER LEVER KIT, (includes items 102 thru 106)                                                                     |     |
| K2   | 10733168    | 1   | OUTRIGGER SEAL KIT, (includes items 111, 114 & 115)                                                                    |     |
| K3   | 10733168    | 1   | FRAME TILT SEAL KIT, (includes items 210, 213 & 214)                                                                   |     |
| K4   |             | Ref | OUTRIGGER AND FRAME LEVEL REPLACEMENT KIT, (See OPTIONS SECTION for Breakdown)                                         |     |

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FIGURE 7-4. FRAME LEVEL AND OUTRIGGER JOYSTICK ASSEMBLY (SN 0160048698 to Present)



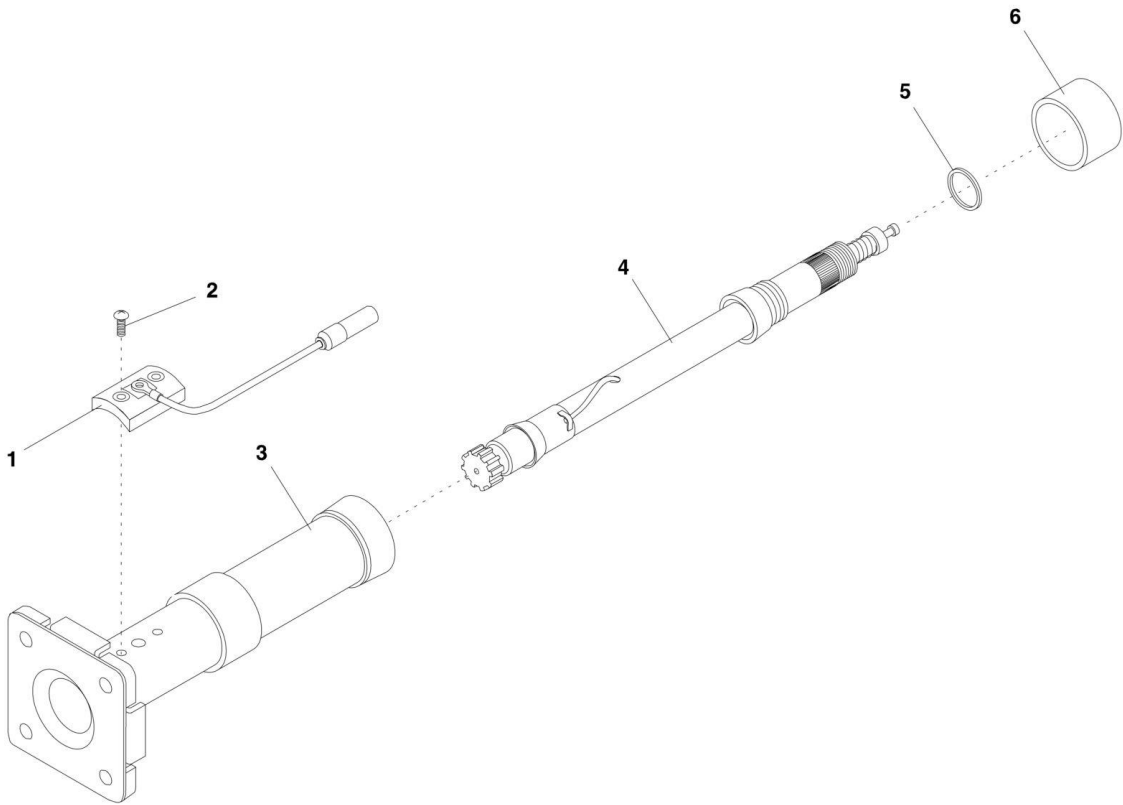
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**FIGURE 7-4. FRAME LEVEL AND OUTRIGGER JOYSTICK ASSEMBLY (SN 0160048698 to Present)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                        | REV |
|------|-------------|-----|--------------------------------------------------------------------|-----|
|      | 1001142352  | 1   | FRAME LEVEL AND OUTRIGGER JOYSTICK ASSEMBLY, (includes all items)  | A   |
| 1    | 70024560    | 4   | O-RING                                                             |     |
| 2    | Kit         | 3   | TIE-ROD                                                            |     |
| 3    | 70024559    | 6   | NUT                                                                |     |
| 4    | 70024570    | 2   | MOUNTING PLATE ASSEMBLY, (includes items 5 & 6)                    | A   |
| 5    | N.S.S.      | 1   | MOUNTING PLATE                                                     |     |
| 6    | 70024561    | 2   | SCREW                                                              |     |
| 7    | 70024562    | 3   | LEVER ASSEMBLY, (includes items 8 thru 13)                         | A   |
| 8    | 70024563    | 2   | CIRCLIP                                                            |     |
| 9    | N.S.S.      | 1   | AXLE PIVOT                                                         |     |
| 10   | N.S.S.      | 1   | PIN                                                                |     |
| 11   | N.S.S.      | 2   | NUT                                                                |     |
| 12   | N.S.S.      | 2   | SCREW                                                              |     |
| 13   | 70024564    | 2   | SCREW                                                              |     |
| 14   | Kit         | 1   | O-RING                                                             |     |
| 15   | Kit         | 1   | O-RING                                                             |     |
| 16   | Kit         | 1   | PLUG                                                               |     |
| 17   | Kit         | 1   | PLUG                                                               |     |
| 18   | 70024565    | 2   | BALL HANDLE                                                        |     |
| 19   | Kit         | 2   | LEVER HANDLE                                                       |     |
| 20   | 70024568    | 2   | BELLOW                                                             |     |
| 21   | 70024569    | 2   | NUT                                                                |     |
| 22   | Kit         | 1   | LEVER HANDLE                                                       |     |
| 23   | Kit         | 1   | CLIP                                                               |     |
| 24   | Kit         | 1   | BRACKET                                                            |     |
| 25   | Kit         | 1   | LEVER RELEASE                                                      |     |
| 26   | Kit         | 1   | CAP                                                                |     |
| 27   | Kit         | 1   | HEX NUT                                                            |     |
| 28   | 70024626    | 1   | BELLOW                                                             |     |
| 29   | Kit         | 2   | SCREW                                                              |     |
| 30   | Kit         | 2   | SCREW                                                              |     |
| K1   | 70024571    | 1   | PLUG KIT, (includes items 14 thru 17)                              |     |
| K2   | 70024558    | 1   | TIE-ROD KIT, (includes items 2 & 3)                                |     |
| K3   | 70024566    | 1   | LEVER HANDLE KIT, (includes items 18 thru 21)                      |     |
| K4   | 70024624    | 1   | LEVER HANDLE REPLACEMENT KIT, (includes items 22, 23 & 25 thru 27) |     |
| K5   | 70024625    | 1   | HANDLE HARDWARE KIT, (includes items 24, 29 & 30)                  |     |

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FIGURE 7-5. STEER COLUMN ASSEMBLY (Prior to SN 0160049803)



PV0430

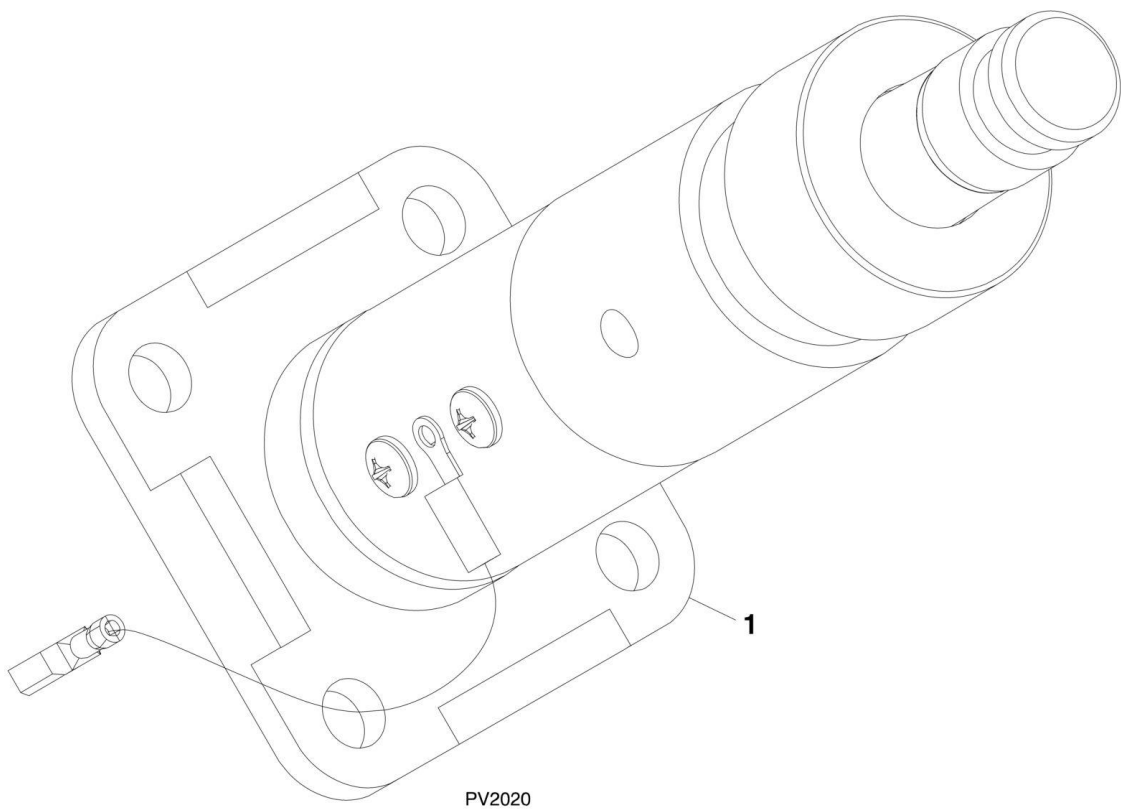
## SECTION 7 - CONTROLS

**FIGURE 7-5. STEER COLUMN ASSEMBLY (Prior to SN 0160049803)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                 | REV |
|------|-------------|-----|---------------------------------------------|-----|
|      | 10239045    | 1   | STEER COLUMN ASSEMBLY, (includes all items) |     |
| 1    | 10718740    | 1   | BRUSH ASSEMBLY, (includes item 3)           |     |
| 2    | N.S.S.      | 2   | SCREW                                       |     |
| 3    | N.S.S.      | 1   | TUBE ASSEMBLY                               |     |
| 4    | N.S.S.      | 1   | SHAFT ASSEMBLY                              |     |
| 5    | N.S.S.      | 1   | SHAFT RETAINER                              |     |
| 6    | 10718738    | 1   | TUBE CAP                                    |     |

**SECTION 7 - CONTROLS**

**FIGURE 7-6. STEER COLUMN ASSEMBLY (SN 0160049803 to Present)**





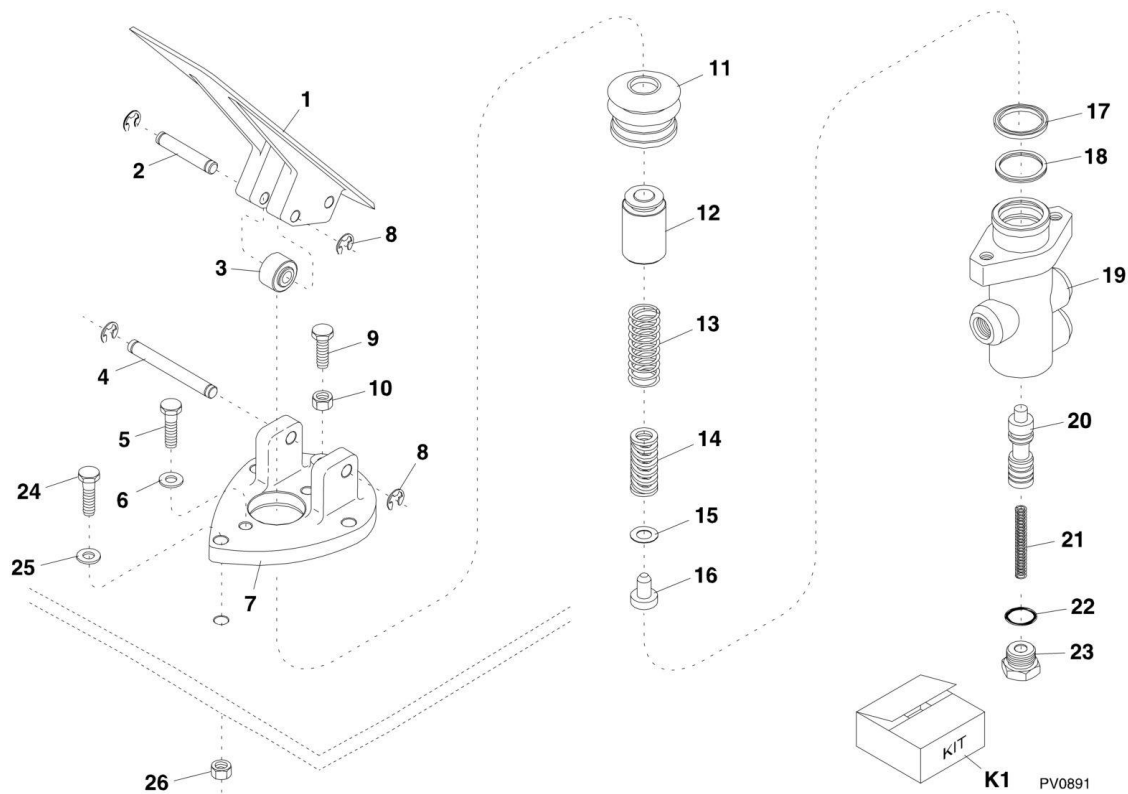
## SECTION 7 - CONTROLS

**FIGURE 7-6. STEER COLUMN ASSEMBLY (SN 0160049803 to Present)**

| ITEM | PART NUMBER | QTY | DESCRIPTION           | REV |
|------|-------------|-----|-----------------------|-----|
| 1    | 7138833     | 1   | STEER COLUMN ASSEMBLY |     |

SECTION 7 - CONTROLS

FIGURE 7-7. BRAKE VALVE ASSEMBLY



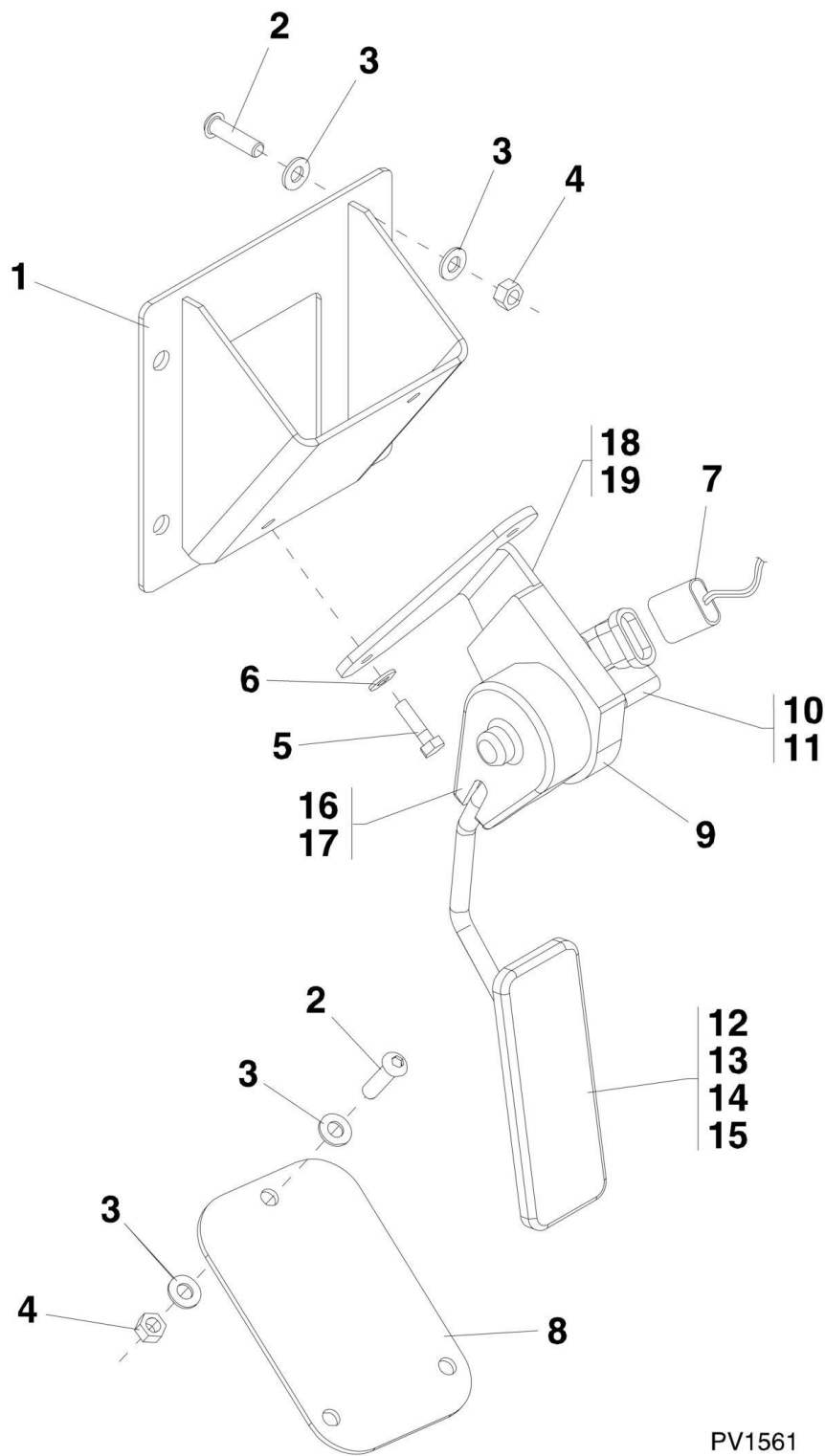
## SECTION 7 - CONTROLS

**FIGURE 7-7. BRAKE VALVE ASSEMBLY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                | REV |
|------|-------------|-----|----------------------------------------------------------------------------------------------------------------------------|-----|
|      | 10266988    | 1   | BRAKE VALVE ASSEMBLY, (includes items 1 thru 23) (Prior to SN 0160051283, Excluding 0160050734, 0160050735 and 0160050882) | A   |
|      | 1001109736  | 1   | VALVE,PEDAL MODULATOR (SN 0160051283 to Present, Including 0160050734, 0160050735 and 0160050882)                          | B   |
|      | 7029130     | 1   | VALVE ASSEMBLY, (includes items 11 thru 23) (Prior to SN 0160051283, Excluding 0160050734, 0160050735 and 0160050882)      |     |
|      | 70028932    | 1   | VALVE ASSEMBLY, (includes items 11 thru 23) (SN 0160051283 to Present, Including 0160050734, 0160050735 and 0160050882)    |     |
| 1    | N.S.S.      | 1   | BRAKE PEDAL                                                                                                                |     |
| 2    | N.S.S.      | 1   | CAM PIN                                                                                                                    |     |
| 3    | N.S.S.      | 1   | CAM                                                                                                                        |     |
| 4    | N.S.S.      | 1   | PEDAL MOUNTING PIN                                                                                                         |     |
| 5    | Kit         | 2   | HEX HD CAPSCREW                                                                                                            |     |
| 6    | N.S.S.      | 2   | FLAT WASHER                                                                                                                |     |
| 7    | N.S.S.      | 1   | ACTUATOR BASE                                                                                                              |     |
| 8    | N.S.S.      | 4   | C-CLIP                                                                                                                     |     |
| 9    | N.S.S.      | 1   | HEX HD CAPSCREW                                                                                                            |     |
| 10   | N.S.S.      | 1   | HEX NUT                                                                                                                    |     |
| 11   | Kit         | 1   | RUBBER BOOT                                                                                                                |     |
| 12   | N.S.S.      | 1   | PISTON                                                                                                                     |     |
| 13   | N.S.S.      | 1   | SPRING                                                                                                                     |     |
| 14   | N.S.S.      | 1   | SPRING                                                                                                                     |     |
| 15   | N.S.S.      | 1   | SHIM                                                                                                                       |     |
| 16   | N.S.S.      | 1   | SPRING SEAT                                                                                                                |     |
| 17   | Kit         | 1   | CUP                                                                                                                        |     |
| 18   | Kit         | 1   | SEAL                                                                                                                       |     |
| 19   | N.S.S.      | 1   | BODY                                                                                                                       |     |
| 20   | N.S.S.      | 1   | SPOOL                                                                                                                      |     |
| 21   | N.S.S.      | 1   | SPOOL RETURN SPRING                                                                                                        |     |
| 22   | Kit         | 1   | O-RING                                                                                                                     |     |
| 23   | N.S.S.      | 1   | PLUG                                                                                                                       |     |
| 24   | 8303534     | 3   | HEX HD CAPSCREW, 3/8-16X1-3/4, GR5                                                                                         |     |
| 25   | 10701310    | 3   | LOCKWASHER, 3/8                                                                                                            |     |
| 26   | 10701508    | 3   | HEX NUT, 3/8-16                                                                                                            |     |
| K1   | 10837080    |     | REPAIR KIT, (includes items 5, 11, 17, 18 & 22)                                                                            |     |

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FIGURE 7-8. ACCELERATOR PEDAL



PV1561

## SECTION 7 - CONTROLS

**FIGURE 7-8. ACCELERATOR PEDAL**

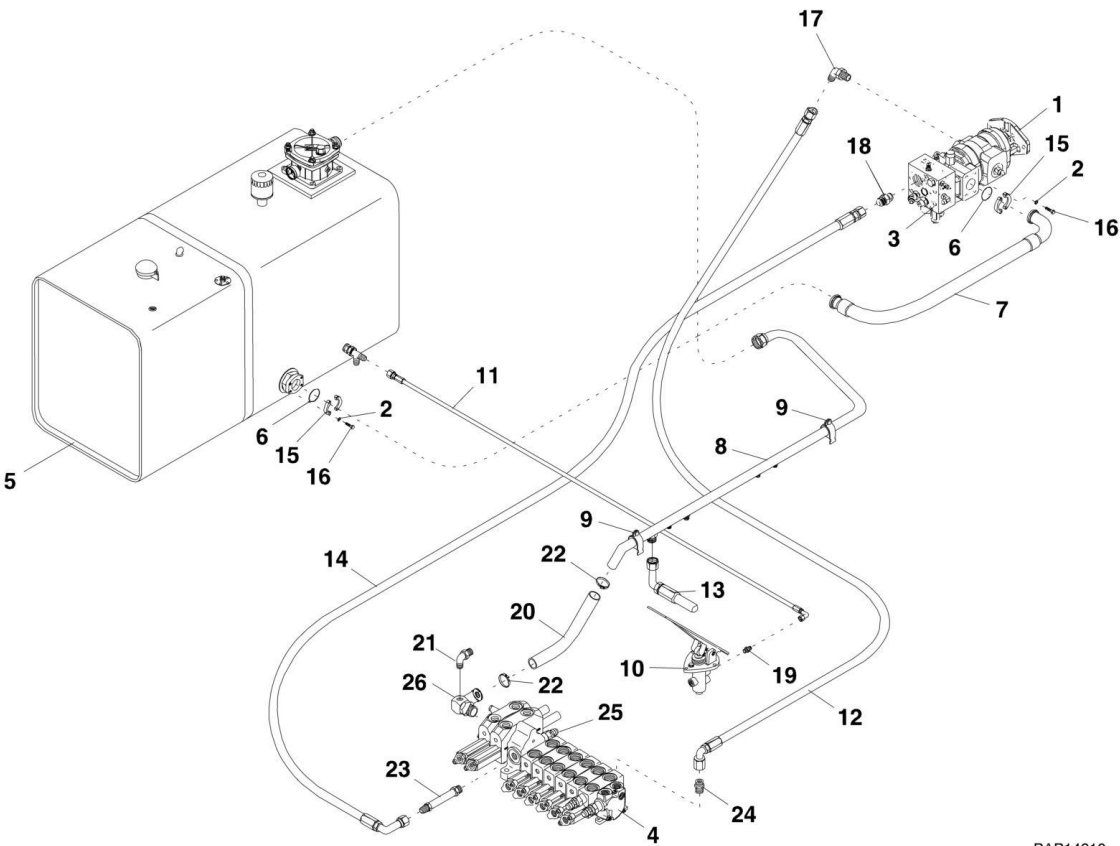
| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                            | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------------------------------------|-----|
| 1    | 0903201     | 1   | ACCELERATOR BRACKET                                                                                                    |     |
| 2    | 3900370     | 7   | BUTTON HD SCREW, 5/16-18X1-1/4                                                                                         |     |
| 3    | 4711500     | 14  | PLAIN WASHER, 5/16                                                                                                     |     |
| 4    | 3271505     | 7   | HEX LOCKNUT, 5/16-18                                                                                                   |     |
| 5    | 0641408     | 2   | HEX HD CAPSCREW, 1/4-20X1, GR5                                                                                         |     |
| 6    | 4711400     | 2   | PLAIN WASHER, 1/4                                                                                                      |     |
| 7    |             | Ref | ENGINE ECU HARNESS, (See ELECTRICAL SECTION for Breakdown)                                                             |     |
| 8    | 3380581     | 1   | COVER PLATE                                                                                                            |     |
| 9    | 91563044    | 1   | ACCELERATOR PEDAL, (includes items 10 thru 17 ) <b>(Prior to SN 0160040407, Excluding 0160037824 and 0160038521)</b>   | B   |
| 9    | 7026485     | 1   | SENSOR KIT, (includes items 10 & 11 ) <b>(Prior to SN 0160040407, Excluding 0160037824 and 0160038521)</b>             |     |
| 9    | 80383410    | 1   | ACCELERATOR PEDAL, (includes items 10 thru 19 ) <b>(SN 0160040413 to Present, Including 0160037824 and 0160038521)</b> | 1   |
| 9    | 70020551    | 1   | SENSOR KIT, (includes items 10 & 11 ) <b>(SN 0160040413 to Present, Including 0160037824 and 0160038521)</b>           |     |
| 10   | N.S.S.      | 2   | SCREW                                                                                                                  |     |
| 11   | N.S.S.      | 1   | SENSOR                                                                                                                 |     |
| 12   | 70023325    | 1   | PEDAL KIT, (includes items 13 & 15)                                                                                    |     |
| 13   | N.S.S.      | 1   | PEDAL SPRING                                                                                                           |     |
| 14   | 7026481     | 1   | PEDAL ARM                                                                                                              |     |
| 15   | N.S.S.      | 1   | PEDAL PIN                                                                                                              |     |
| 16   | N.S.S.      | 1   | CLAMP                                                                                                                  |     |
| 17   | N.S.S.      | 2   | SCREW                                                                                                                  |     |
| 18   | N.S.S.      | 2   | SCREW                                                                                                                  |     |
| 19   | N.S.S.      | 1   | BRACKET                                                                                                                |     |



**SECTION 8 - HYDRAULIC CIRCUITS**

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-1. PUMP, SUCTION - RETURN



PAP14610



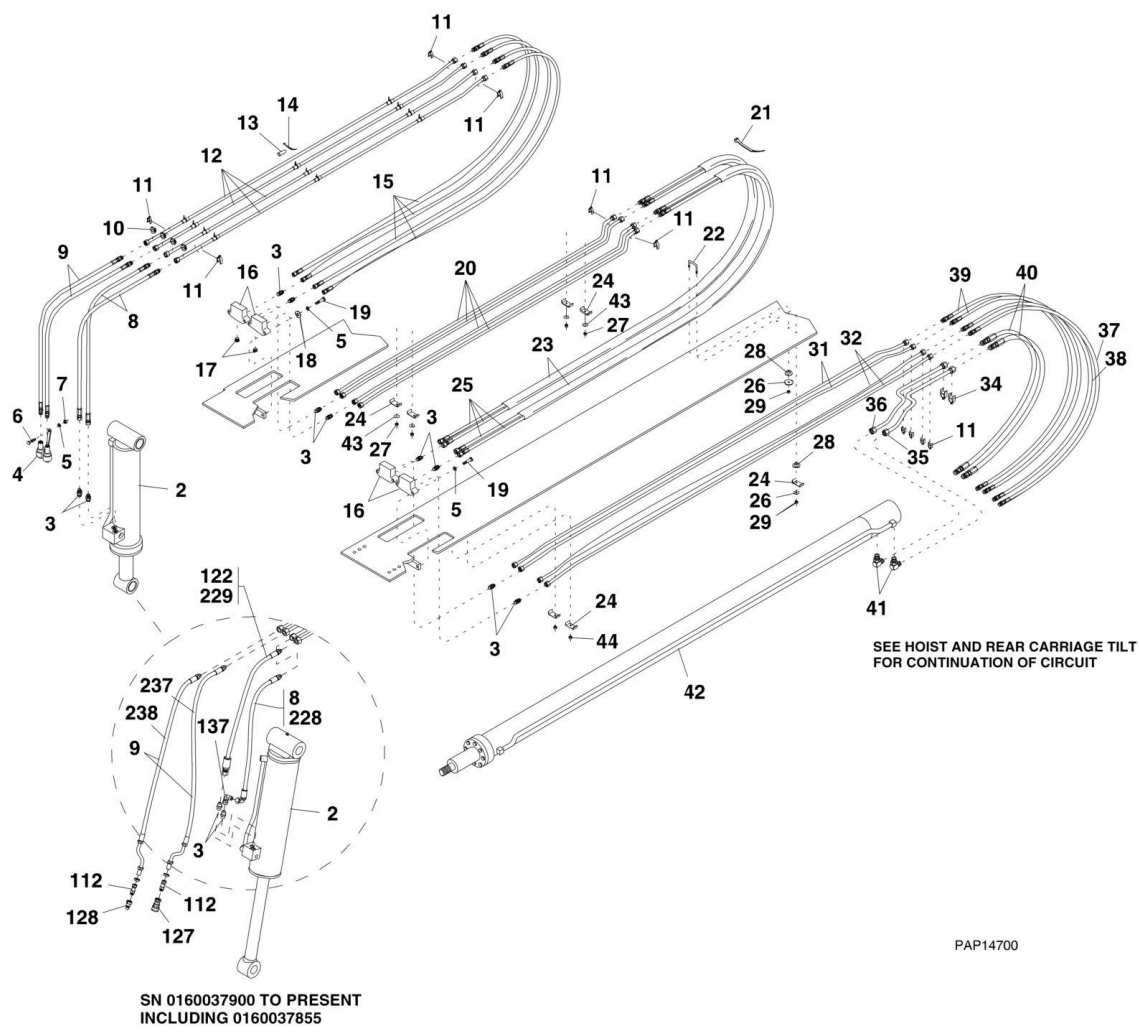
## SECTION 8 - HYDRAULIC CIRCUITS

**FIGURE 8-1. PUMP, SUCTION - RETURN**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                    | REV |
|------|-------------|-----|--------------------------------------------------------------------------------|-----|
| 1    | 10701312    | Ref | TANDEM PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                  |     |
| 2    |             | 8   | LOCKWASHER, 1/2                                                                |     |
| 3    |             | Ref | ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)     |     |
| 4    |             | Ref | HYDRAULIC CONTROL VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| 5    |             | Ref | FUEL/HYDRAULIC TANK ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)     |     |
| 6    | 10712971    | 2   | O-RING                                                                         |     |
| 7    | 2754331     | 1   | SUCTION HOSE                                                                   |     |
| 8    | 10265485    | 1   | RETURN MANIFOLD                                                                |     |
| 9    | 10720485    | 2   | CUSHION CLAMP                                                                  |     |
| 10   | 10730177    | Ref | BRAKE VALVE ASSY, (See CONTROLS SECTION for Breakdown)                         |     |
| 11   |             | 1   | HOSE ASSY                                                                      |     |
| 12   |             | 1   | HOSE ASSY                                                                      |     |
| 13   | 10837605    | Ref | OIL COOLER HOSE, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)        |     |
| 14   | 10837606    | 1   | HOSE ASSY                                                                      |     |
| 15   | 8546407     | 4   | FLANGE HALF                                                                    |     |
| 16   | 10700404    | 8   | HEX HD CAPSCREW, 1/2-13X1-1/2                                                  |     |
| 17   | 2220578     | 1   | ELBOW, 90, (includes o-ring)                                                   |     |
| 18   | 2220451     | 1   | REDUCER                                                                        |     |
| 19   | 2220999     | 1   | TEE                                                                            |     |
| 20   | 1012358     | 1   | RETURN HOSE                                                                    |     |
| 21   | 2220493     | 1   | ELBOW, 90                                                                      |     |
| 22   | 8405102     | 2   | HOSE CLAMP                                                                     |     |
| 23   | 10139537    | 1   | ADAPTER TUBE, (includes o-ring)                                                |     |
| 24   | 2220408     | 1   | STRAIGHT ADAPTER                                                               |     |
| 25   | 2220371     | 1   | CONNECTOR, (includes o-ring)                                                   |     |
| 26   | 10265275    | 1   | MODIFIED ADAPTER                                                               |     |

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-2. BOOM HYDRAULIC CYLINDER



PAP14700

## SECTION 8 - HYDRAULIC CIRCUITS

**FIGURE 8-2. BOOM HYDRAULIC CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                          | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------------------|-----|
| 2    |             | Ref | FRONT CARRIAGE TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                       |     |
| 3    | 2220947     | 18  | CONNECTOR, (includes o-ring)                                                                         |     |
| 4    | 1102074     | 1   | QUICK COUPLER , (includes dust cap and o-ring) <b>(Prior to SN 0160037900, Excluding 0160037855)</b> |     |
| 5    | 4761800     | 9   | LOCKWASHER, 1/2                                                                                      |     |
| 6    | 10700404    | 1   | HEX HD CAPSCREW, 1/2-13X1-1/2                                                                        |     |
| 7    | 10701510    | 1   | HEX NUT, 1/2-13                                                                                      |     |
| 8    | 10837289    | 2   | HOSE ASSEMBLY <b>(Prior to SN 0160037900, Excluding 0160037855)</b>                                  |     |
| 8    | 10837289    | 1   | HOSE ASSEMBLY <b>(SN 0160037900 to Present, Including 0160037855)</b>                                |     |
| 9    | 10868104    | 2   | HOSE ASSEMBLY <b>(Prior to SN 0160037900, Excluding 0160037855)</b>                                  |     |
| 9    | 1001099891  | 2   | HOSE ASSEMBLY <b>(SN 0160037900 to Present, Including 0160037855)</b>                                |     |
| 10   | 1101513     | 4   | SPLIT SHAFT COLLAR                                                                                   |     |
| 11   | 1001131575  | 12  | CUSHION CLAMP                                                                                        |     |
| 12   | 10238747    | 4   | TUBE ASSEMBLY                                                                                        |     |
| 13   | 1100379     | 12  | HEATER HOSE                                                                                          |     |
| 14   | 10717989    | 12  | TIE WRAP                                                                                             |     |
| 15   | 1101505     | 4   | HOSE ASSEMBLY                                                                                        |     |
| 16   | 10165944    | 4   | HYD MANIFOLD                                                                                         |     |
| 17   | 2220887     | 8   | PLUG, (includes o-ring)                                                                              |     |
| 18   | 4711800     | 4   | FLAT WASHER, 1/2                                                                                     |     |
| 19   | 0641818     | 8   | HEX HD CAPSCREW, 1/2-13X2-1/4                                                                        |     |
| 20   | 10238757    | 4   | TUBE ASSEMBLY                                                                                        |     |
| 21   | 10720496    | AR  | TIE WRAP                                                                                             |     |
| 22   | 10167485    | 2   | HOSE HOLD DOWN                                                                                       |     |
| 23   | 1101511     | 2   | NYLON SLEEVE, (2 hose)                                                                               |     |
| 24   | 10138930    | 8   | TUBE CLAMP                                                                                           |     |
| 25   | 1100990     | 4   | HOSE ASSEMBLY                                                                                        |     |
| 26   | 10701452    | 4   | FENDER WASHER, 1/4X1-1/4                                                                             |     |
| 27   | 3311602     | 4   | LOCKNUT, 3/8-16                                                                                      |     |
| 28   | 1101518     | 4   | HOSE CLAMP SPACER                                                                                    |     |
| 29   | 8305624     | 4   | HEX NUT, 1/4-20                                                                                      |     |
| 31   | 10265086    | 2   | TUBE ASSEMBLY                                                                                        |     |
| 32   | 10265087    | 2   | TUBE ASSEMBLY                                                                                        |     |
| 34   | 90207463    | 2   | CUSHION CLAMP                                                                                        |     |
| 35   | 10238133    | 1   | TUBE ASSEMBLY                                                                                        |     |
| 36   | 10238132    | 1   | TUBE ASSEMBLY                                                                                        |     |
| 37   | 10837522    | 1   | HOSE ASSEMBLY                                                                                        |     |
| 38   | 10837521    | 1   | HOSE ASSEMBLY                                                                                        |     |
| 39   | 10837186    | 2   | HOSE ASSEMBLY                                                                                        |     |
| 40   | 10837189    | 2   | HOSE ASSEMBLY                                                                                        |     |
| 41   | 2220578     | 2   | ELBOW, 90, (includes o-ring)                                                                         |     |
| 42   |             | Ref | BOOM EXTENSION CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                            |     |
| 43   | 4791600     | 8   | STAR WASHER, 3/8                                                                                     |     |
| 44   | 8305645     | 2   | HEX LOCKNUT, 3/8-16                                                                                  |     |
| 112  | 2180849     | 2   | ADAPTER <b>(SN 0160037900 to Present, Including 0160037855)</b>                                      |     |

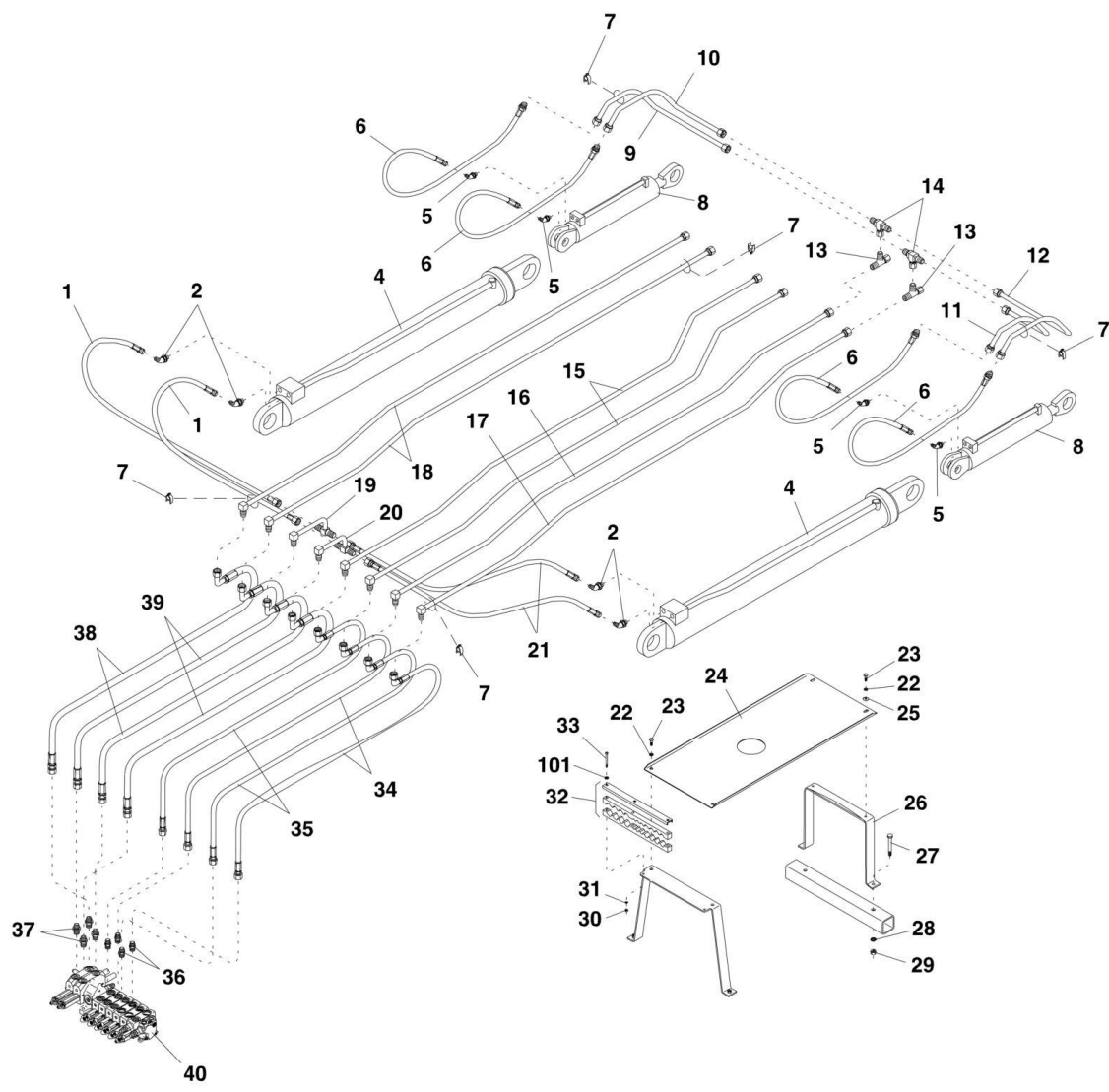
## SECTION 8 - HYDRAULIC CIRCUITS

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                  | REV |
|------|-------------|-----|------------------------------------------------------------------------------|-----|
| 122  | 1001112955  | 1   | HOSE ASSY (SN 0160037900 to Present, Including 0160037855)                   |     |
| 127  | 91403413    | 1   | QUICK DISCONNECT, (female) (SN 0160037900 to Present, Including 0160037855)  |     |
| 128  | 91403414    | 1   | QUICK DISCONNECT, (male) (SN 0160037900 to Present, Including 0160037855)    |     |
| 137  | 2220973     | 1   | ELBOW, 90 (SN 0160037900 to Present, Including 0160037855)                   |     |
| 228  | 1001112953  | 1   | HOSE ASSEMBLY, (Second Aux) (SN 0160037900 to Present, Including 0160037855) |     |
| 229  | 10837289    | 1   | HOSE ASSEMBLY, (Second Aux) (SN 0160037900 to Present, Including 0160037855) |     |
| 237  | 1001099891  | 1   | HOSE ASSEMBLY, (Second Aux) (SN 0160037900 to Present, Including 0160037855) |     |
| 238  | 1001112699  | 1   | HOSE ASSEMBLY, (Second Aux) (SN 0160037900 to Present, Including 0160037855) |     |



SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-3. HOIST AND REAR CARRIAGE TILT



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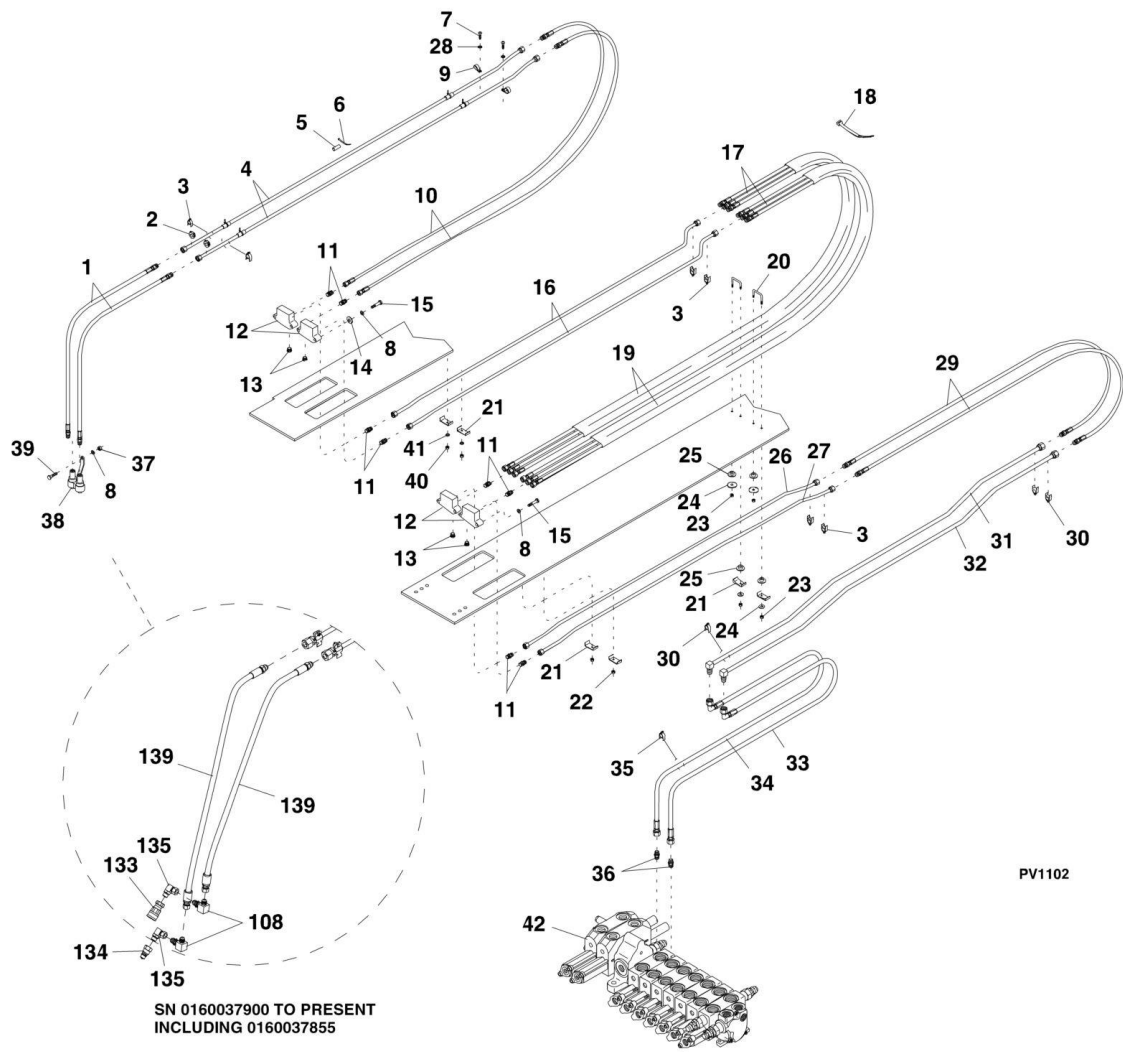
## SECTION 8 - HYDRAULIC CIRCUITS

**FIGURE 8-3. HOIST AND REAR CARRIAGE TILT**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                    | REV |
|------|-------------|-----|--------------------------------------------------------------------------------|-----|
| 1    | 10723866    | 2   | HOSE ASSEMBLY                                                                  |     |
| 2    | 2221050     | 4   | ELBOW, 45, (includes o-ring)                                                   |     |
| 4    |             | Ref | HOIST CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)               |     |
| 5    | 2220500     | 4   | ELBOW, 45, (includes o-ring)                                                   |     |
| 6    | 10837151    | 4   | HOSE ASSEMBLY                                                                  |     |
| 7    | 90207463    | 16  | CUSHION CLAMP                                                                  |     |
| 8    |             | Ref | REAR CARRIAGE TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)  |     |
| 9    | 10236295    | 1   | TUBE ASSEMBLY                                                                  |     |
| 10   | 10236294    | 1   | TUBE ASSEMBLY                                                                  |     |
| 11   | 10236293    | 1   | TUBE ASSEMBLY                                                                  |     |
| 12   | 10236292    | 1   | TUBE ASSEMBLY                                                                  |     |
| 13   | 2220700     | 2   | SWIVEL TEE                                                                     |     |
| 14   | 2220682     | 2   | SWIVEL BRANCH TEE                                                              |     |
| 15   | 10239736    | 2   | TUBE ASSEMBLY                                                                  |     |
| 16   | 10239734    | 1   | TUBE ASSEMBLY                                                                  |     |
| 17   | 10239735    | 1   | TUBE ASSEMBLY                                                                  |     |
| 18   | 10239733    | 2   | TUBE ASSEMBLY                                                                  |     |
| 19   | 10139731    | 1   | TUBE ASSEMBLY                                                                  |     |
| 20   | 10139732    | 1   | TUBE ASSEMBLY                                                                  |     |
| 21   | 10837150    | 2   | HOSE ASSEMBLY                                                                  |     |
| 22   | 10701310    | 4   | LOCKWASHER, 3/8                                                                |     |
| 23   | 10703227    | 4   | SOCKET BUTTON HD CAPSCREW, 3/8-16X1                                            |     |
| 24   | 10138559    | 1   | ROLL-BACK HOSE TRAY                                                            |     |
| 25   | 10701404    | 2   | FLAT WASHER, 3/8                                                               |     |
| 26   | 4341059     | 1   | HOSE TRAY SUPPORT BRACKET                                                      |     |
| 27   | 10700414    | 2   | HEX HD CAPSCREW, 1/2-13X4                                                      |     |
| 28   | 10701312    | 2   | LOCKWASHER, 1/2                                                                |     |
| 29   | 10701510    | 2   | HEX NUT, 1/2-13                                                                |     |
| 30   | 10701506    | 3   | HEX NUT, 1/4-20                                                                |     |
| 31   | 10701308    | 3   | LOCKWASHER, 1/4                                                                |     |
| 32   | 10238560    | 1   | HOSE MOUNT                                                                     |     |
| 33   | 10837574    | 3   | SOCKET BUTTON HD CAPSCREW, 1/4-20X3                                            |     |
| 34   | 10837194    | 2   | HOSE ASSEMBLY                                                                  |     |
| 35   | 10837195    | 2   | HOSE ASSEMBLY                                                                  |     |
| 36   | 88662037    | 4   | CONNECTOR, (includes o-ring), (Long)                                           |     |
| 37   | 2220451     | 4   | CONNECTOR, (includes o-ring)                                                   |     |
| 38   | 10837513    | 2   | HOSE ASSEMBLY                                                                  |     |
| 39   | 10731059    | 2   | HOSE ASSEMBLY                                                                  |     |
| 40   |             | Ref | HYDRAULIC CONTROL VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| 101  | 8307109     | 3   | PLAIN WASHER                                                                   |     |

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-4. SECOND AUXILIARY CIRCUIT





## SECTION 8 - HYDRAULIC CIRCUITS

**FIGURE 8-4. SECOND AUXILIARY CIRCUIT**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                   | REV |
|------|-------------|-----|-----------------------------------------------------------------------------------------------|-----|
| 1    | 10868104    | 2   | HOSE ASSEMBLY (Prior to SN 0160037900, Excluding 0160037855)                                  |     |
| 2    | 1101513     | 2   | SPLIT SHAFT COLLAR                                                                            |     |
| 3    | 1001131575  | 6   | CUSHION CLAMP                                                                                 |     |
| 4    | 10238747    | 2   | TUBE ASSEMBLY                                                                                 |     |
| 5    | 1100379     | 6   | HEATER HOSE                                                                                   |     |
| 6    | 10717989    | 6   | TIE WRAP                                                                                      |     |
| 7    | 10703237    | 2   | SOCKET BUTTON HD CAPSCREW, 1/2-20X1                                                           |     |
| 8    | 4761800     | 9   | LOCK WASHER, 1/2                                                                              |     |
| 9    | 8406105     | 2   | CLAMP, 5/8                                                                                    |     |
| 10   | 1101505     | 2   | HOSE ASSEMBLY                                                                                 |     |
| 11   | 2220947     | 8   | CONNECTOR, (includes o-ring)                                                                  |     |
| 12   | 10165945    | 4   | HYD MANIFOLD, (six port)                                                                      |     |
| 13   | 2220887     | 4   | PLUG, (includes o-ring)                                                                       |     |
| 14   | 4711800     | 4   | FLAT WASHER, 1/2                                                                              |     |
| 15   | 0641818     | 8   | HEX HD CAPSCREW, 1/2-13X2-14                                                                  |     |
| 16   | 10238757    | 2   | TUBE ASSEMBLY                                                                                 |     |
| 17   | 1100990     | 2   | HOSE ASSEMBLY                                                                                 |     |
| 18   | 10720469    | AR  | TIE WRAP                                                                                      |     |
| 19   | 1101510     | 2   | NYLON SLEEVE, (3 hose)                                                                        |     |
| 20   | 10167485    | 2   | HOSE HOLD DOWN ROD                                                                            |     |
| 21   | 10138930    | 8   | TUBE CLAMP                                                                                    |     |
| 22   | 8305645     | 2   | LOCKNUT, 3/8-16                                                                               |     |
| 23   | 8305624     | 4   | HEX LOCKNUT                                                                                   |     |
| 24   | 10701452    | 4   | FENDER WASHER, 1/4X1-1/2                                                                      |     |
| 25   | 1101518     | 4   | HOSE CLAMP SPACER                                                                             |     |
| 26   | 10265086    | 1   | TUBE ASSEMBLY                                                                                 |     |
| 27   | 10265087    | 1   | TUBE ASSEMBLY                                                                                 |     |
| 28   | 8307028     | 2   | STAR WASHER, 1/2                                                                              |     |
| 29   | 10866717    | 2   | HOSE ASSEMBLY                                                                                 |     |
| 30   | 10720467    | 4   | CUSHION CLAMP, 1/2                                                                            |     |
| 31   | 10239738    | 1   | TUBE ASSEMBLY                                                                                 |     |
| 32   | 10239739    | 1   | TUBE ASSEMBLY                                                                                 |     |
| 33   | 10727404    | 1   | HOSE ASSEMBLY                                                                                 |     |
| 34   | 10721981    | 1   | HOSE ASSEMBLY                                                                                 |     |
| 35   | 10728200    | 2   | CUSHION CLAMP                                                                                 |     |
| 36   | 2220374     | 2   | CONNECTOR, (includes o-ring)                                                                  |     |
| 37   | 10701510    | 1   | HEX NUT, 1/2-13 (Prior to SN 0160037900, Excluding 0160037855)                                |     |
| 38   | 1102074     | 2   | QUICK COUPLER , (includes dust cap and o-ring) (Prior to SN 0160037900, Excluding 0160037855) |     |
| 39   | 10700404    | 2   | HEX HD CAPSCREW, 1/2-13X1-1/2, GR5 (Prior to SN 0160037900, Excluding 0160037855)             |     |
| 40   | 3311602     | 4   | HEX NUT, 3/8-16                                                                               |     |
| 41   | 4791600     | 8   | STAR WASHER, 3/8                                                                              |     |
| 42   |             | Ref | HYDRAULIC CONTROL VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                |     |
| 108  | 2230044     | 2   | BULKHEAD ADAPTER (SN 0160037900 to Present, Including 0160037855)                             |     |
| 133  | 91403413    | 1   | QUICK DISCONNECT , (female) (SN 0160037900 to Present, Including 0160037855)                  |     |

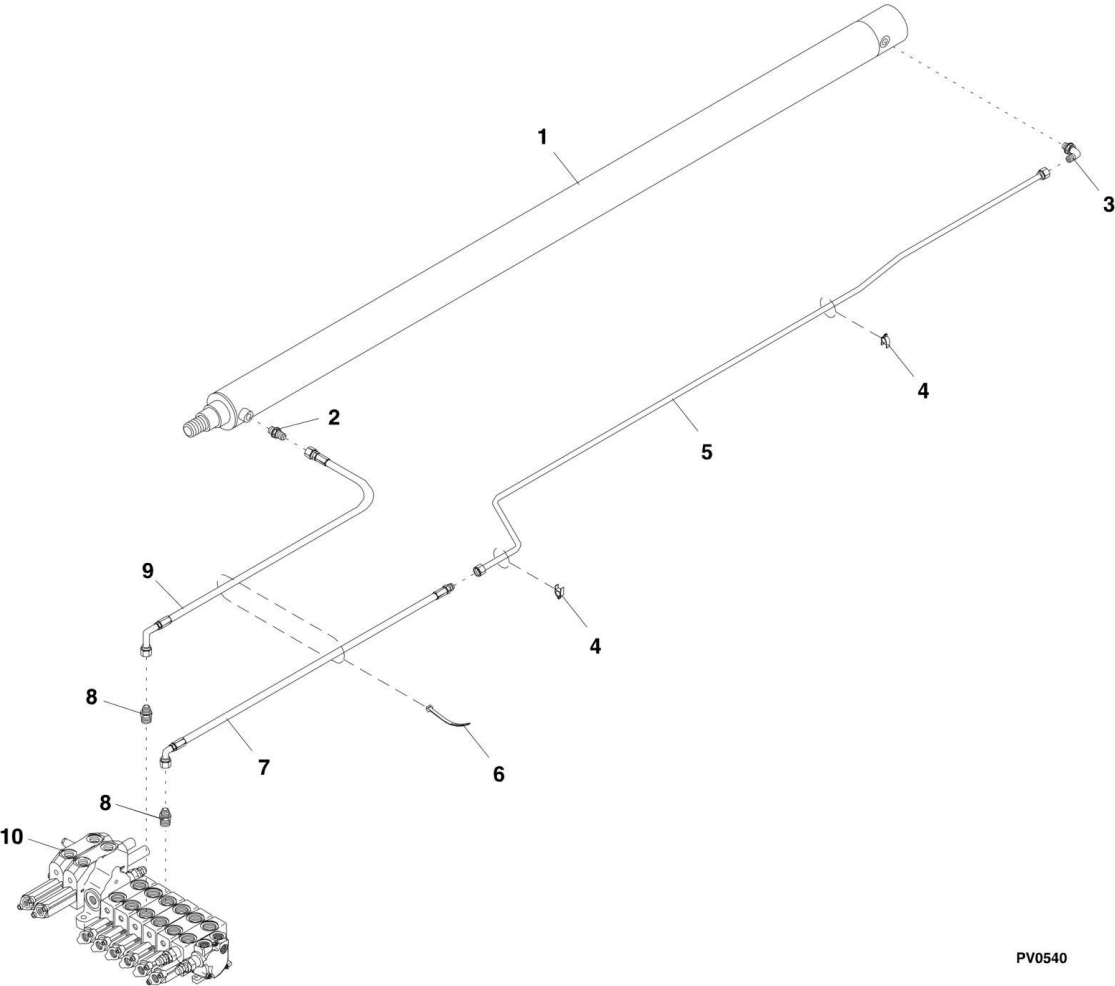
SECTION 8 - HYDRAULIC CIRCUITS

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                | REV |
|------|-------------|-----|----------------------------------------------------------------------------|-----|
| 134  | 91403414    | 1   | QUICK DISCONNECT , (male) (SN 0160037900 to Present, Including 0160037855) |     |
| 135  | 91513106    | 2   | SWIVEL ELBOW (SN 0160037900 to Present, Including 0160037855)              |     |
| 139  | 1001102994  | 2   | HOSE ASSEMBLY (SN 0160037900 to Present, Including 0160037855)             |     |



SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-5. TRANSFER CYLINDER



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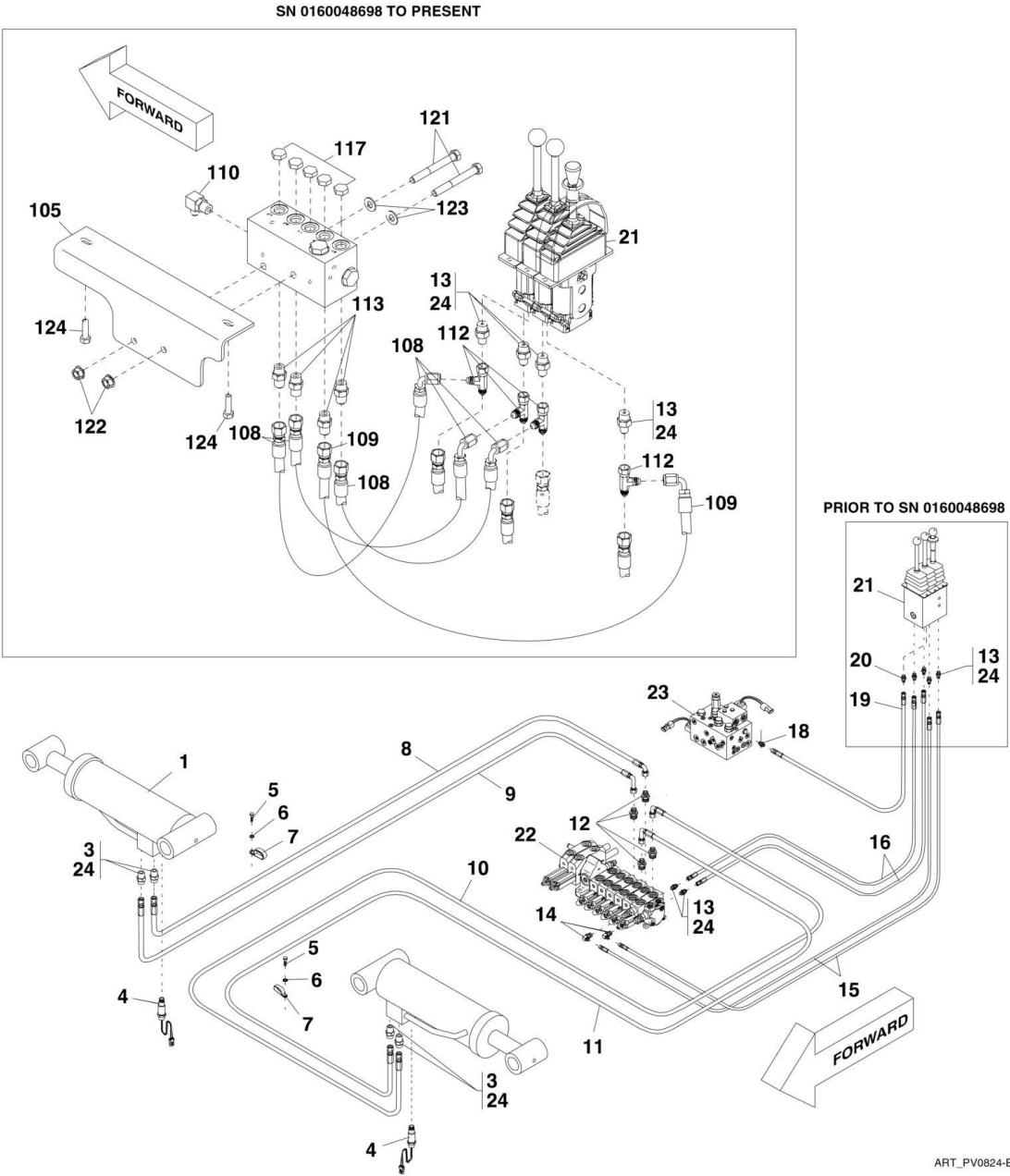
## SECTION 8 - HYDRAULIC CIRCUITS

**FIGURE 8-5. TRANSFER CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                    | REV |
|------|-------------|-----|--------------------------------------------------------------------------------|-----|
| 1    |             | Ref | TRANSFER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)            |     |
| 2    | 2220373     | 1   | CONNECTOR, (includes o-ring)                                                   |     |
| 3    | 2220596     | 1   | ELBOW, 90, (includes o-ring)                                                   |     |
| 4    | 10720467    | 2   | CUSHION CLAMP                                                                  |     |
| 5    | 10236322    | 1   | TUBE ASSEMBLY                                                                  |     |
| 6    | 10720496    | AR  | TIE WRAP                                                                       |     |
| 7    | 10837264    | 1   | HOSE ASSEMBLY                                                                  |     |
| 8    | 2220374     | 2   | CONNECTOR, (includes o-ring)                                                   |     |
| 9    | 10837629    | 1   | HOSE ASSEMBLY                                                                  |     |
| 10   |             | Ref | HYDRAULIC CONTROL VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |

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FIGURE 8-6. OUTRIGGER CYLINDER AND JOYSTICK



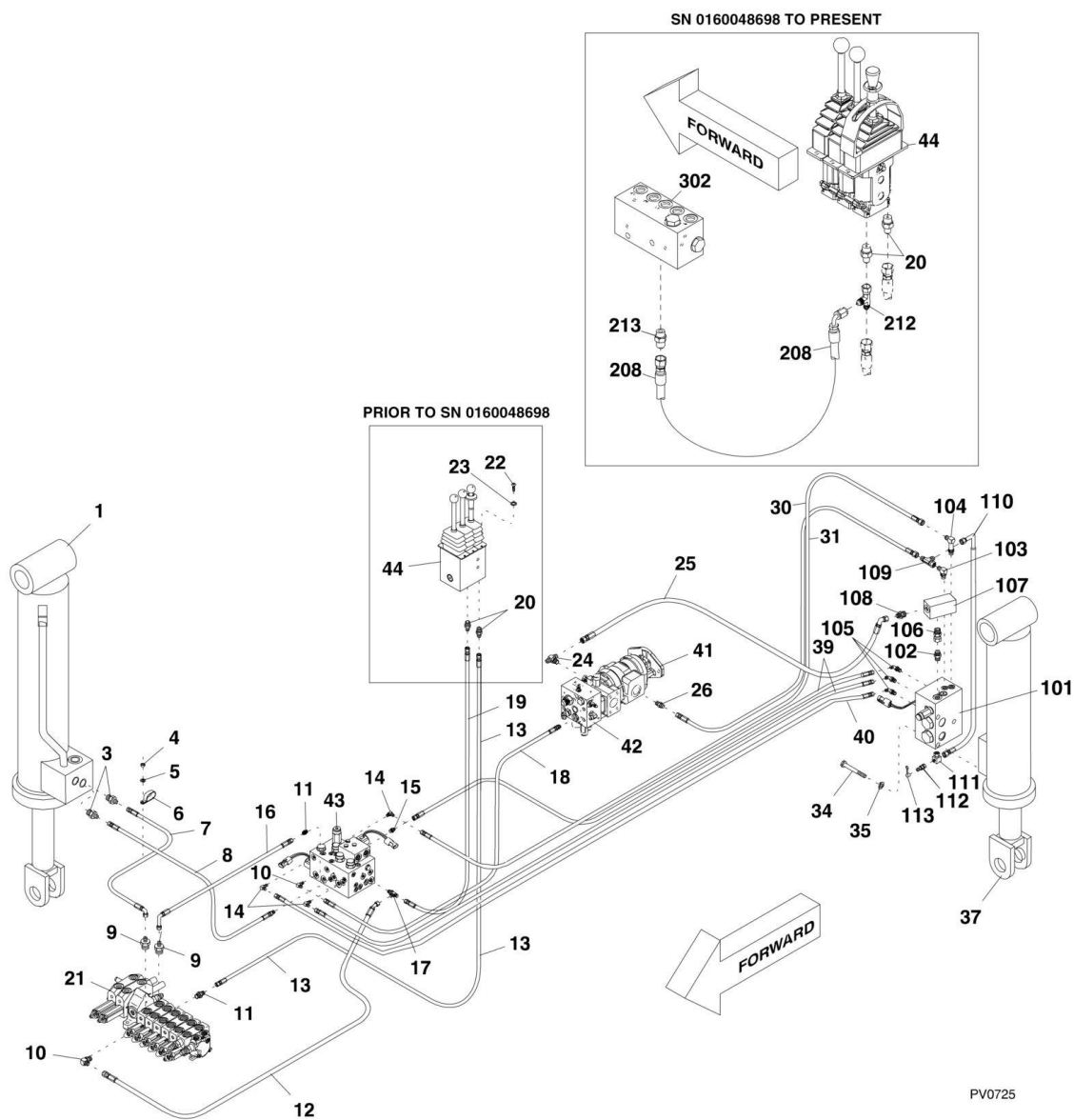
## SECTION 8 - HYDRAULIC CIRCUITS

**FIGURE 8-6. OUTRIGGER CYLINDER AND JOYSTICK**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                       | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------|-----|
| 1    |             | Ref | OUTRIGGER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                              |     |
| 3    | 2220373     | 4   | ADAPTER, STRAIGHT THREAD (includes o-ring)                                                        |     |
| 4    | 10168441    | 2   | DIFFERENTIAL PRESSURE SWITCH                                                                      |     |
| 5    | 0641606     | 2   | HEX HD CAPSCREW, 3/8-16X3/4                                                                       |     |
| 6    | 4761600     | 2   | LOCKWASHER, 3/8                                                                                   |     |
| 7    | 10837368    | 2   | HOSE CLAMP                                                                                        |     |
| 8    | 2754414     | 1   | HOSE ASSEMBLY                                                                                     |     |
| 9    | 2754413     | 1   | HOSE ASSEMBLY                                                                                     |     |
| 10   | 2754412     | 1   | HOSE ASSEMBLY                                                                                     |     |
| 11   | 2754411     | 1   | HOSE ASSEMBLY                                                                                     |     |
| 12   | 2220374     | 4   | STRAIGHT FITTING, (includes o-ring)                                                               |     |
| 13   | 2220582     | 6   | STRAIGHT FITTING, (includes o-ring)                                                               |     |
| 14   | 2220472     | 2   | ADAPTER, 90, (includes o-ring)                                                                    |     |
| 15   | 10837646    | 2   | HOSE ASSEMBLY                                                                                     |     |
| 16   | 10837645    | 2   | HOSE ASSEMBLY                                                                                     |     |
| 18   | 10701404    | 1   | STRAIGHT FITTING, (includes o-ring)                                                               |     |
| 19   | 10837610    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 20   | 2220582     | 1   | STRAIGHT FITTING, (includes o-ring)                                                               |     |
| 21   |             | Ref | 3 HANDLE SINGLE AXIS CONTROL VALVE ASSEMBLY, (See CONTROLS SECTION for Breakdown)                 |     |
| 22   |             | Ref | HYDRAULIC CONTROL VALVE ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                |     |
| 23   |             | Ref | REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| 24   | 0100027     | AR  | LOCTITE 542                                                                                       |     |
| 25   | 10837115    | 1   | PROXIMITY SWITCH, (not shown)                                                                     |     |
| 104  |             | Ref | SHUTTLE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                   |     |
| 105  | 1001142245  | 1   | BRACKET <b>(SN 0160048698 to Present)</b>                                                         |     |
| 108  | 1001143709  | 3   | HOSE ASSEMBLY <b>(SN 0160048698 to Present)</b>                                                   |     |
| 109  | 1001143710  | 1   | HOSE ASSEMBLY <b>(SN 0160048698 to Present)</b>                                                   |     |
| 110  | 2220472     | 1   | ADAPTER, 90, (includes o-ring) <b>(SN 0160048698 to Present)</b>                                  |     |
| 112  | 2220605     | 4   | TEE FITTING, (includes o-ring) <b>(SN 0160048698 to Present)</b>                                  |     |
| 113  | 2220371     | 5   | STRAIGHT FITTING, (includes o-ring) <b>(SN 0160048698 to Present)</b>                             |     |
| 117  | 2220237     | 5   | PLUG, (includes o-ring) <b>(SN 0160048698 to Present)</b>                                         |     |
| 121  | 8303107     | 2   | HEX HD CAPSCREW, 3/8-16X3-1/4, GR5 <b>(SN 0160048698 to Present)</b>                              |     |
| 122  | 8310522     | 2   | HEX LOCKNUT, 3/8-16 <b>(SN 0160048698 to Present)</b>                                             |     |
| 123  | 8307110     | 2   | WASHER, 3/8 <b>(SN 0160048698 to Present)</b>                                                     |     |
| 124  | 0641509     | 2   | HEX HD CAPSCRW, 5/16-18X1.13, GR5 <b>(SN 0160048698 to Present)</b>                               |     |

## SECTION 8 - HYDRAULIC CIRCUITS

### FIGURE 8-7. FRAME LEVEL AND REAR AXLE STABILIZER





## SECTION 8 - HYDRAULIC CIRCUITS

**FIGURE 8-7. FRAME LEVEL AND REAR AXLE STABILIZER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                       | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------|-----|
| 1    |             | Ref | FRAME TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                             |     |
| 3    | 2220375     | 2   | CONNECTOR, (includes o-ring)                                                                      |     |
| 4    | 10701508    | 1   | HEX NUT, 3/8-16                                                                                   |     |
| 5    | 10701310    | 1   | LOCKWASHER, 3/8                                                                                   |     |
| 6    | 10837368    | 1   | HOSE CLAMP                                                                                        |     |
| 7    | 10837516    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 8    | 10866706    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 9    | 2221033     | 2   | CONNECTOR, (includes o-ring)                                                                      |     |
| 10   | 2220473     | 2   | ADAPTER, 90, (includes o-ring)                                                                    |     |
| 11   | 2220371     | 2   | CONNECTOR, (includes o-ring)                                                                      |     |
| 12   | 10837537    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 13   | 10729156    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 14   | 2220466     | 3   | ADAPTER, 90, (includes o-ring)                                                                    |     |
| 15   | 2220415     | 2   | STRAIGHT FITTING, (includes o-ring)                                                               |     |
| 16   | 10866716    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 17   | 2221034     | 1   | TEE FITTING, (includes o-ring)                                                                    |     |
| 18   | 10866708    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 19   | 10837610    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 20   | 2220582     | 2   | STRAIGHT FITTING, (includes o-ring)                                                               |     |
| 21   |             | Ref | HYDRAULIC CONTROL VALVE ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                |     |
| 22   | 10703196    | 6   | SOCKET BUTTON HD CAPSCREW, 1/4-20X3/4                                                             |     |
| 23   | 10701357    | 6   | STAR WASHER, 1/4                                                                                  |     |
| 24   | 2220999     | 1   | TEE FITTING, (includes o-ring)                                                                    |     |
| 25   | 10837613    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 26   | 10723848    | 1   | CHECK VALVE                                                                                       |     |
| 30   | 10837615    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 31   | 10837614    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 34   | 10700442    | 3   | HEX HD CAPSCREW, 1/2-13X4-1/2, GR8                                                                |     |
| 35   | 10701254    | 3   | WASHER, 1/2                                                                                       |     |
| 37   |             | Ref | REAR STABILIZER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                        |     |
| 39   | 10729956    | 2   | HOSE ASSEMBLY                                                                                     |     |
| 40   | 10730584    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 41   |             | Ref | TANDEM PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                     |     |
| 42   |             | Ref | ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                        |     |
| 43   |             | Ref | REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| 44   |             | Ref | 3 HANDLE SINGLE AXIS CONTROL VALVE ASSEMBLY, (See CONTROLS SECTION for Breakdown)                 |     |
| 45   | 10701404    | 1   | WASHER, 3/8                                                                                       |     |
|      | 10265859    | Ref | STABILIZER VALVE INSTALLATION, (not available to order, see items 101 thru 113 for service)       | F   |
| 101  |             | Ref | REAR AXLE STABILIZER VALVE, (on rear axle), (See HYDRAULIC COMPONENTS SECTION for Breakdown)      |     |
| 102  | 10723848    | 1   | CHECK VALVE                                                                                       |     |
| 103  | 2220473     | 1   | ADAPTER, 90, (includes o-ring)                                                                    |     |
| 104  | 2220819     | 1   | ADAPTER, 90, (includes o-ring), (Long)                                                            |     |
| 105  | 2220502     | 3   | ADAPTER, 45, (includes o-ring)                                                                    |     |

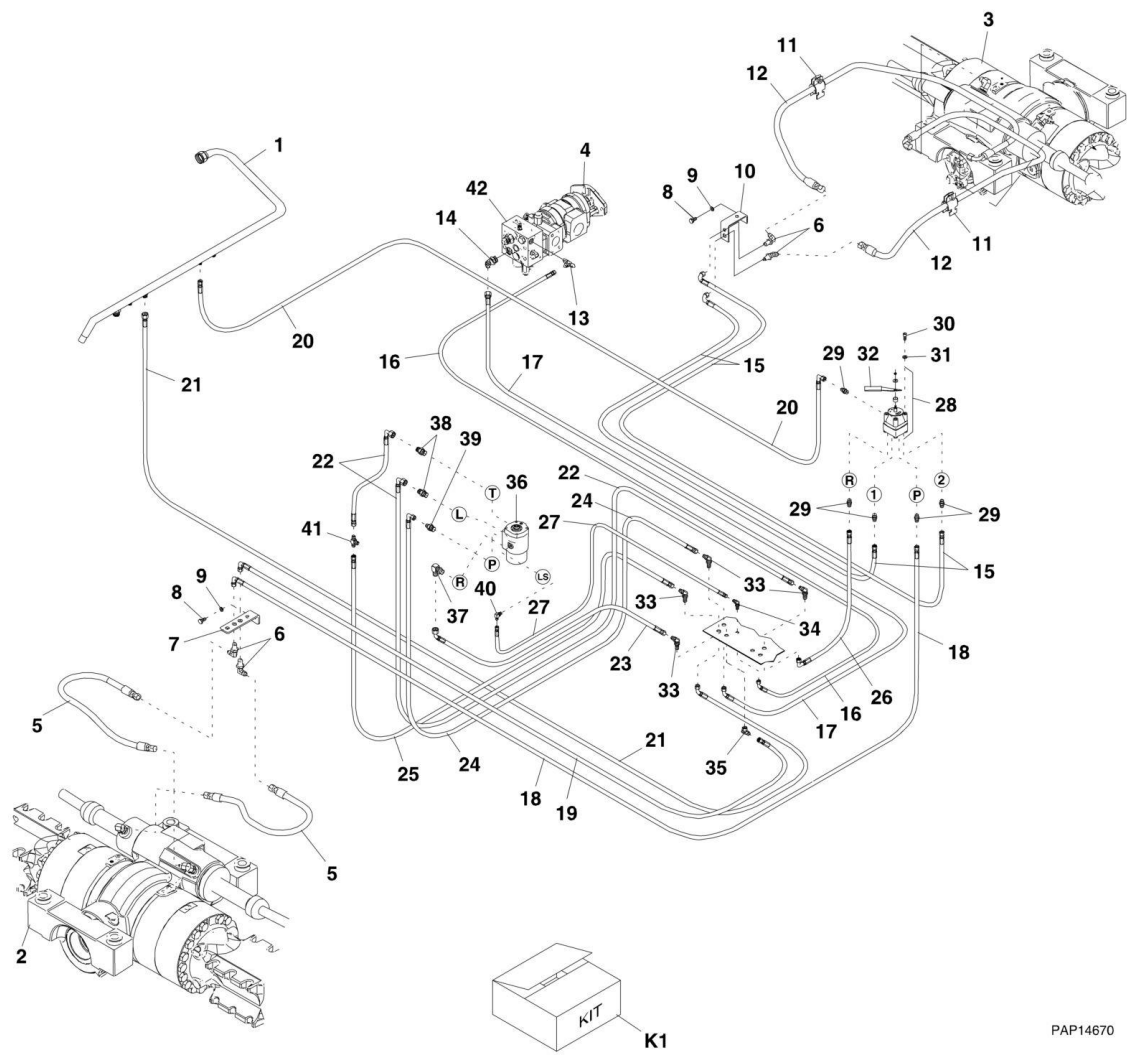
## SECTION 8 - HYDRAULIC CIRCUITS

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                           | REV |
|------|-------------|-----|-----------------------------------------------------------------------|-----|
| 106  | 2220651     | 1   | SWIVEL CONNECTOR                                                      |     |
| 107  |             | Ref | IN-LINE FILTER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)      |     |
| 108  | 2220373     | 1   | ADAPTER                                                               |     |
| 109  | 2220635     | 1   | TEE FITTING                                                           |     |
| 110  | 1102026     | 1   | HOSE ASSEMBLY                                                         |     |
| 111  | 1102023     | 1   | RELIEF VALVE                                                          |     |
| 112  | 8430036     | 1   | DIAGNOSTIC NIPPLE                                                     |     |
| 113  | 8430032     | 1   | DUST PLUG                                                             |     |
| 208  | 1001143709  | 1   | HOSE ASSEMBLY <b>(SN 0160048698 to Present)</b>                       |     |
| 212  | 2220605     | 1   | STRAIGHT FITTING, (includes o-ring) <b>(SN 0160048698 to Present)</b> |     |
| 213  | 2220371     | 1   | STRAIGHT FITTING, (includes o-ring) <b>(SN 0160048698 to Present)</b> |     |
| 302  |             | Ref | SHUTTLE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)       |     |



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FIGURE 8-8. STEERING CYLINDER



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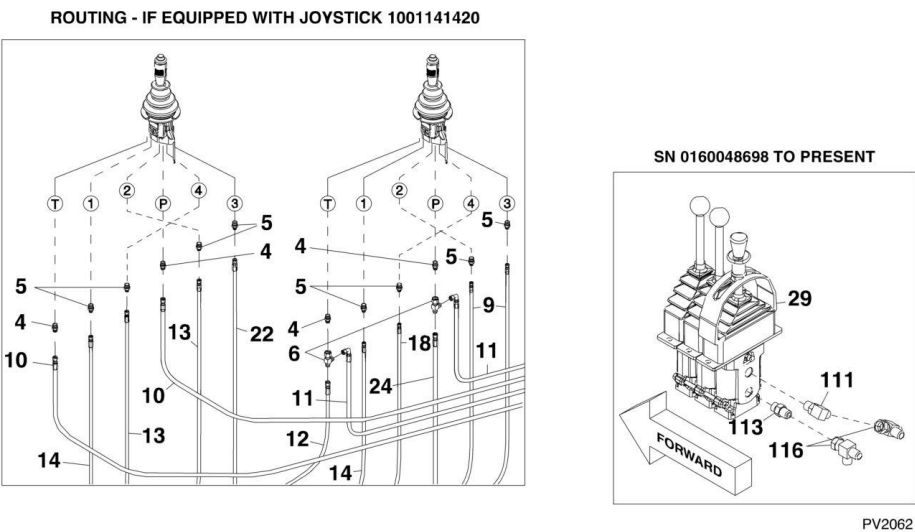
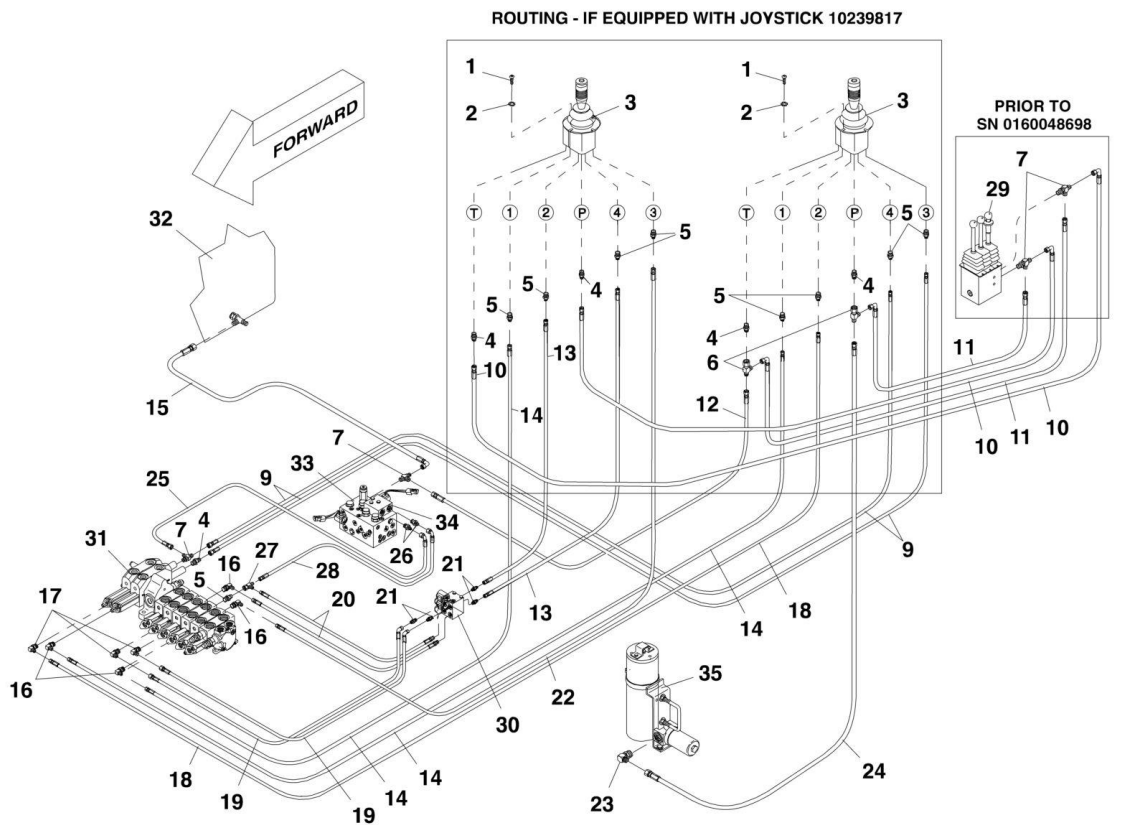
## SECTION 8 - HYDRAULIC CIRCUITS

**FIGURE 8-8. STEERING CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                | REV |
|------|-------------|-----|----------------------------------------------------------------------------|-----|
| 1    |             | Ref | RETURN MANIFOLD, (See PUMP, SUCTION - RETURN for Breakdown)                |     |
| 2    |             | Ref | FRONT AXLE ASSEMBLY, (See DRIVE TRAIN SECTION for Breakdown)               |     |
| 3    |             | Ref | REAR AXLE ASSEMBLY, (See DRIVE TRAIN SECTION for Breakdown)                |     |
| 4    |             | Ref | TANDEM PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)              |     |
| 5    | 2753315     | 2   | HOSE ASSEMBLY                                                              |     |
| 6    | 2230043     | 4   | ELBOW, 90                                                                  |     |
| 7    | 0903187     | 1   | FRONT HOSE SUPPORT BRACKET                                                 |     |
| 8    | 0641606     | 2   | HEX HD CAPSCREW, 3/8-16X1/4                                                |     |
| 9    | 4761600     | 2   | FLAT WASHER, 3/8                                                           |     |
| 10   | 10124186    | 1   | REAR HOSE SUPPORT BRACKET                                                  |     |
| 11   | 91083217    | 2   | CUSHION CLAMP, 5/8                                                         |     |
| 12   | 2753476     | 2   | HOSE ASSEMBLY                                                              |     |
| 13   | 2221034     | 1   | RUN TEE, (includes o-ring)                                                 |     |
| 14   | 2220500     | 1   | ELBOW, 45                                                                  |     |
| 15   | 10836591    | 2   | HOSE ASSEMBLY                                                              |     |
| 16   | 10837622    | 1   | HOSE ASSEMBLY                                                              |     |
| 17   | 10837623    | 1   | HOSE ASSEMBLY                                                              |     |
| 18   | 10837175    | 1   | HOSE ASSEMBLY                                                              |     |
| 19   | 10724624    | 1   | HOSE ASSEMBLY                                                              |     |
| 20   | 10837621    | 1   | HOSE ASSEMBLY                                                              |     |
| 21   | 10837507    | 1   | HOSE ASSEMBLY                                                              |     |
| 22   | 10728616    | 2   | HOSE ASSEMBLY                                                              |     |
| 23   | 2754321     | 1   | HOSE ASSEMBLY                                                              |     |
| 24   | 2752474     | 1   | HOSE ASSEMBLY                                                              |     |
| 25   | 10719473    | 1   | HOSE ASSEMBLY                                                              |     |
| 26   | 10727123    | 1   | HOSE ASSEMBLY                                                              |     |
| 27   | 2750790     | 1   | HOSE ASSEMBLY                                                              |     |
| 28   | 10729100    | 1   | STEER SELECTOR VALVE                                                       |     |
| 29   | 2220371     | 5   | CONNECTOR, (includes o-ring)                                               |     |
| 30   | 3931612     | 4   | SOCKET HD CAPSCREW, 3/8-16X3/4                                             |     |
| 31   | 10701310    | 4   | LOCKWASHER, 3/8                                                            |     |
| 32   | 10718085    | 1   | STEER SELECTOR HANDLE                                                      |     |
| 33   | 8770189     | 4   | BULKHEAD ELBOW, 45                                                         |     |
| 34   | 2230031     | 1   | BULKHEAD ELBOW, 45                                                         |     |
| 35   | 2220657     | 1   | ELBOW, 45, (swivel nut)                                                    |     |
| 36   | 10239751    | 1   | STEER MOTOR                                                                |     |
| 37   | 2220596     | 1   | ELBOW, 90, (includes o-ring)                                               |     |
| 38   | 10837053    | 2   | CONNECTOR, (includes o-ring)                                               |     |
| 39   | 10719414    | 1   | CHECK VALVE                                                                |     |
| 40   | 2220466     | 1   | ELBOW, 90, (includes o-ring)                                               |     |
| 41   | 2220490     | 1   | UNION TEE                                                                  |     |
| 42   |             | Ref | ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| K1   | 2902422     | 1   | HYDRAULIC HOSE 4D COMMON KIT                                               |     |

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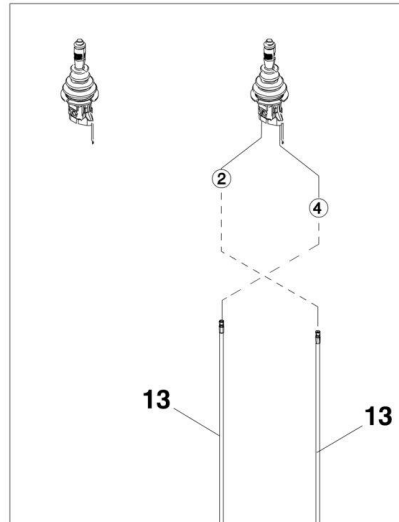
FIGURE 8-9. JOYSTICK CONTROL CIRCUIT



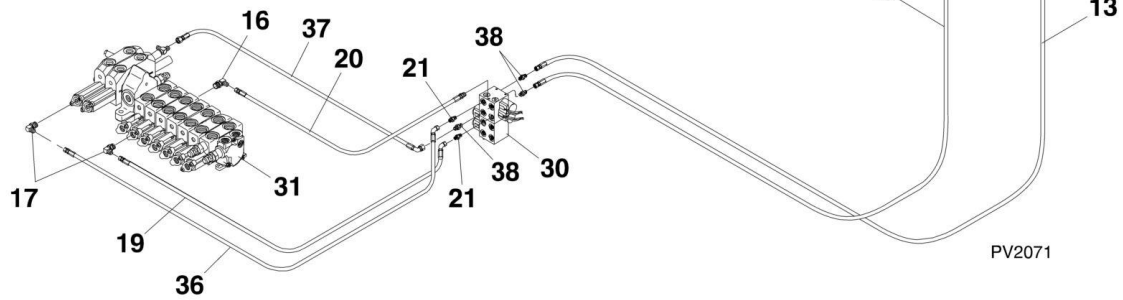
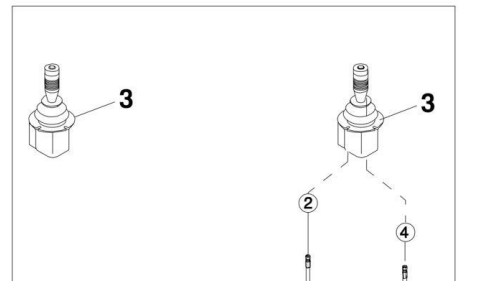
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### 2 AUX OPTION

ROUTING - IF EQUIPPED WITH JOYSTICK 1001141420



ROUTING - IF EQUIPPED WITH JOYSTICK 10239817



## SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-9. JOYSTICK CONTROL CIRCUIT

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                       | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------|-----|
| 1    | 10703196    | 8   | SOCKET BUTTON HD CAPSCREW, 1/4-20X3/4                                                             |     |
| 2    | 10701357    | 8   | STAR WASHER, 1/4                                                                                  |     |
| 3    |             | Ref | JOYSTICK, (See CONTROLS SECTION for Breakdown)                                                    |     |
| 4    | 2220371     | 5   | STRAIGHT FITTING, (includes o-ring)                                                               |     |
| 5    | 2220582     | 9   | STRAIGHT FITTING, (includes o-ring)                                                               |     |
| 6    | 2220635     | 2   | TEE FITTING, (includes o-ring)                                                                    |     |
| 7    | 2220606     | 4   | TEE FITTING, (includes o-ring)                                                                    |     |
| 9    | 10729155    | 2   | HOSE ASSEMBLY                                                                                     |     |
| 10   | 10724641    | 2   | HOSE ASSEMBLY                                                                                     |     |
| 11   | 10720460    | 2   | HOSE ASSEMBLY                                                                                     |     |
| 12   | 10718856    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 13   | 10837505    | 2   | HOSE ASSEMBLY                                                                                     |     |
| 14   | 10733052    | 2   | HOSE ASSEMBLY                                                                                     |     |
| 15   | 10719890    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 16   | 2220472     | 4   | ADAPTER, 90, (includes o-ring), (Single Aux)                                                      |     |
| 16   | 2220472     | 1   | ADAPTER, 90, (includes o-ring), (Dual Aux)                                                        |     |
| 17   | 2220473     | 3   | ADAPTER, 90, (includes o-ring), (Single Aux)                                                      |     |
| 17   | 2220473     | 2   | ADAPTER, 90, (includes o-ring), (Dual Aux)                                                        |     |
| 18   | 10837607    | 1   | HOSE ASSEMBLY, (Single Aux)                                                                       |     |
| 19   | 10837536    | 2   | HOSE ASSEMBLY, (Single Aux)                                                                       |     |
| 19   | 10837536    | 1   | HOSE ASSEMBLY, (Dual Aux)                                                                         |     |
| 20   | 10837295    | 2   | HOSE ASSEMBLY, (Single Aux)                                                                       |     |
| 20   | 10837295    | 1   | HOSE ASSEMBLY, (Dual Aux)                                                                         |     |
| 21   | 2220415     | 4   | STRAIGHT FITTING, (includes o-ring), (Single Aux)                                                 |     |
| 21   | 2220415     | 2   | STRAIGHT FITTING, (includes o-ring), (Dual Aux)                                                   |     |
| 22   | 10732416    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 23   | 2220366     | 1   | ADAPTER, 90, (includes o-ring)                                                                    |     |
| 24   | 10723862    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 25   | 10866709    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 26   |             | Ref | CHECK VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                     |     |
| 27   | 2220605     | 1   | TEE FITTING, (includes o-ring)                                                                    |     |
| 28   | 10837524    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 29   |             | Ref | 3 HANDLE SINGLE AXIS CONTROL VALVE, (See CONTROLS SECTION for Breakdown)                          |     |
| 30   |             | Ref | 6 PORT CIRCUIT SELECTOR VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                   |     |
| 31   |             | Ref | HYDRAULIC CONTROL VALVE ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                |     |
| 32   |             | Ref | FUEL/HYDRAULIC TANK ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                    |     |
| 33   |             | Ref | REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| 34   |             | Ref | BOOM EXTEND LOCKOUT VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                       |     |
| 35   |             | Ref | PRESSURE FILTER/ACCUMULATOR, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                     |     |
| 36   | 10837537    | 1   | HOSE ASSEMBLY, (Dual Aux)                                                                         |     |
| 37   | 10837639    | 1   | HOSE ASSEMBLY, (Dual Aux)                                                                         |     |
| 38   | 2220603     | 3   | STRAIGHT FITTING, (Dual Aux)                                                                      |     |
| 111  | 2220472     | 1   | ADAPTER, 90, (includes o-ring) (SN 0160048698 to Present)                                         |     |

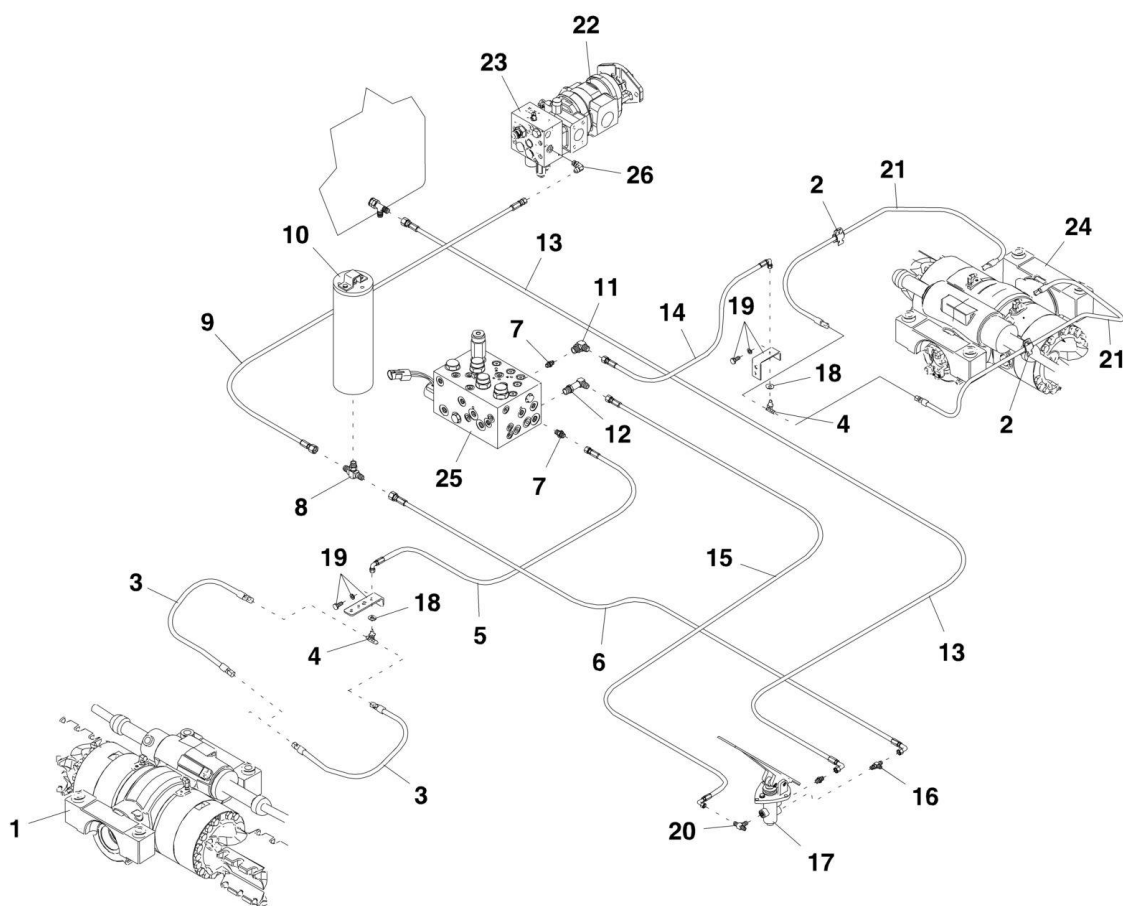


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| ITEM | PART NUMBER | QTY | DESCRIPTION                                                    | REV |
|------|-------------|-----|----------------------------------------------------------------|-----|
| 113  | 2220371     | 1   | STRAIGHT FITTING, (includes o-ring) (SN 0160048698 to Present) |     |
| 116  | 2220635     | 2   | ADAPTER, 90, (includes o-ring) (SN 0160048698 to Present)      |     |

## SECTION 8 - HYDRAULIC CIRCUITS

### FIGURE 8-10. SERVICE BRAKE CIRCUIT



**PV0880**

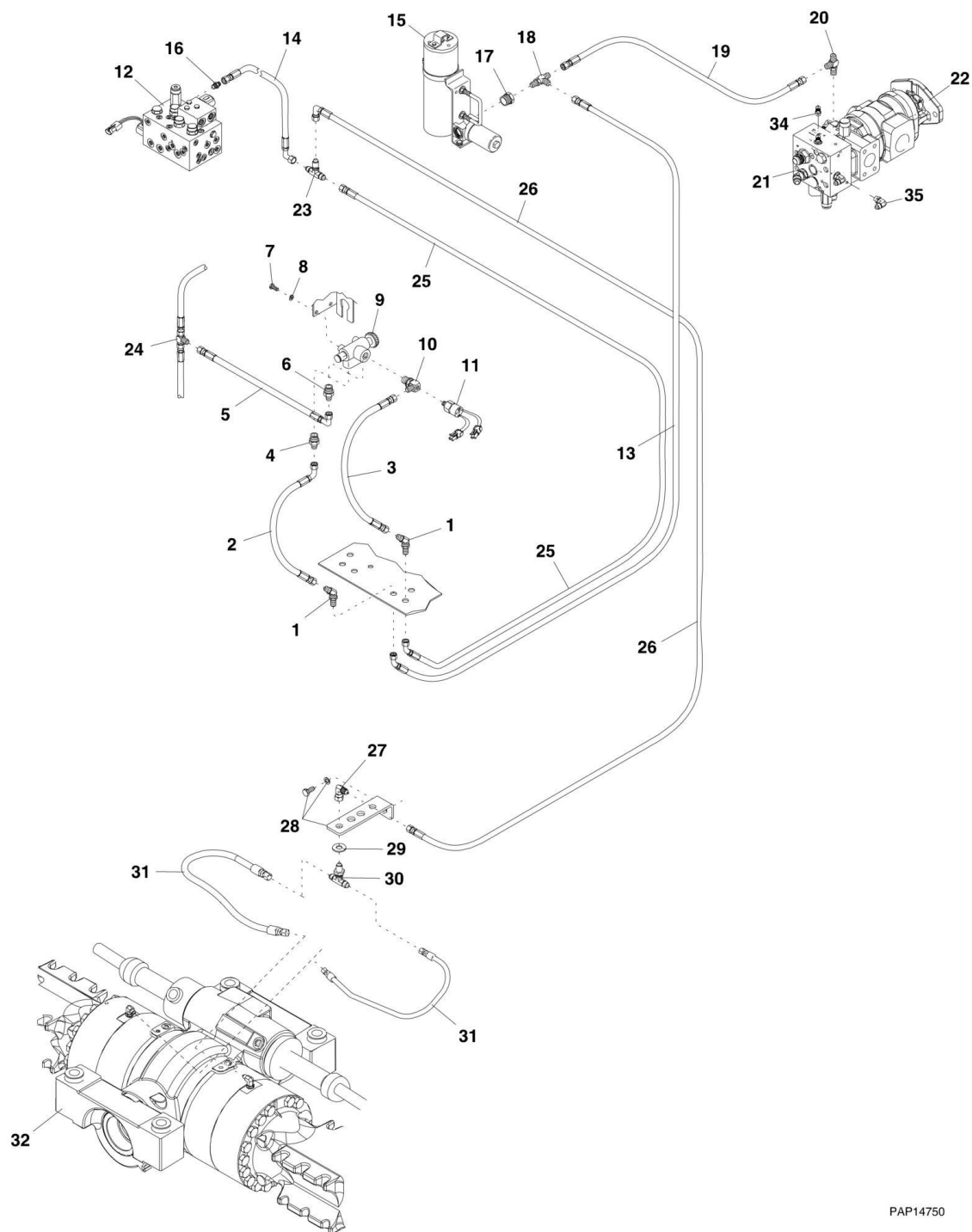
## SECTION 8 - HYDRAULIC CIRCUITS

**FIGURE 8-10. SERVICE BRAKE CIRCUIT**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                       | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------|-----|
| 1    |             | Ref | FRONT AXLE ASSEMBLY, (See DRIVE TRAIN SECTION for Breakdown)                                      |     |
| 2    | 91083216    | 2   | CUSHION CLAMP, 1/2                                                                                |     |
| 3    | 2752908     | 2   | HOSE ASSEMBLY                                                                                     |     |
| 4    | 10726099    | 2   | BULKHEAD TEE                                                                                      |     |
| 5    | 10837261    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 6    | 10837515    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 7    | 2220371     | 2   | CONNECTOR, (includes o-ring)                                                                      |     |
| 8    | 10165644    | 1   | TEE, (includes o-ring)                                                                            |     |
| 9    | 10728616    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 10   |             | Ref | ACCUMULATOR, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                     |     |
| 11   | 8760268     | 1   | ELBOW, 90, (includes o-ring)                                                                      |     |
| 12   | 2220819     | 1   | ELBOW, 90, (includes o-ring), (long)                                                              |     |
| 13   |             | Ref | PUMP, SUCTION - RETURN CIRCUIT, (See PUMP, SUCTION - RETURN for Breakdown)                        |     |
| 14   | 10837252    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 15   | 10727667    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 16   | 2220606     | 1   | TEE, (includes o-ring)                                                                            |     |
| 17   |             | Ref | BRAKE VALVE ASSEMBLY, (See CONTROLS SECTION for Breakdown)                                        |     |
| 18   | 10701404    | 2   | FLAT WASHER, 3/8                                                                                  |     |
| 19   |             | Ref | BRACKET AND MOUNTING HARDWARE, (See STEERING CYLINDER for Breakdown)                              |     |
| 20   | 2220899     | 1   | BRANCH TEE, (includes o-ring)                                                                     |     |
| 21   | 2752983     | 2   | HOSE ASSEMBLY                                                                                     |     |
| 22   |             | Ref | TANDEM PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                     |     |
| 23   |             | Ref | ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                        |     |
| 24   |             | Ref | REAR AXLE ASSEMBLY, (See DRIVE TRAIN SECTION for Breakdown)                                       |     |
| 25   |             | Ref | REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| 26   | 2220473     | 1   | ELBOW, 90                                                                                         |     |

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-11. PARK BRAKE CIRCUIT



PAP14750

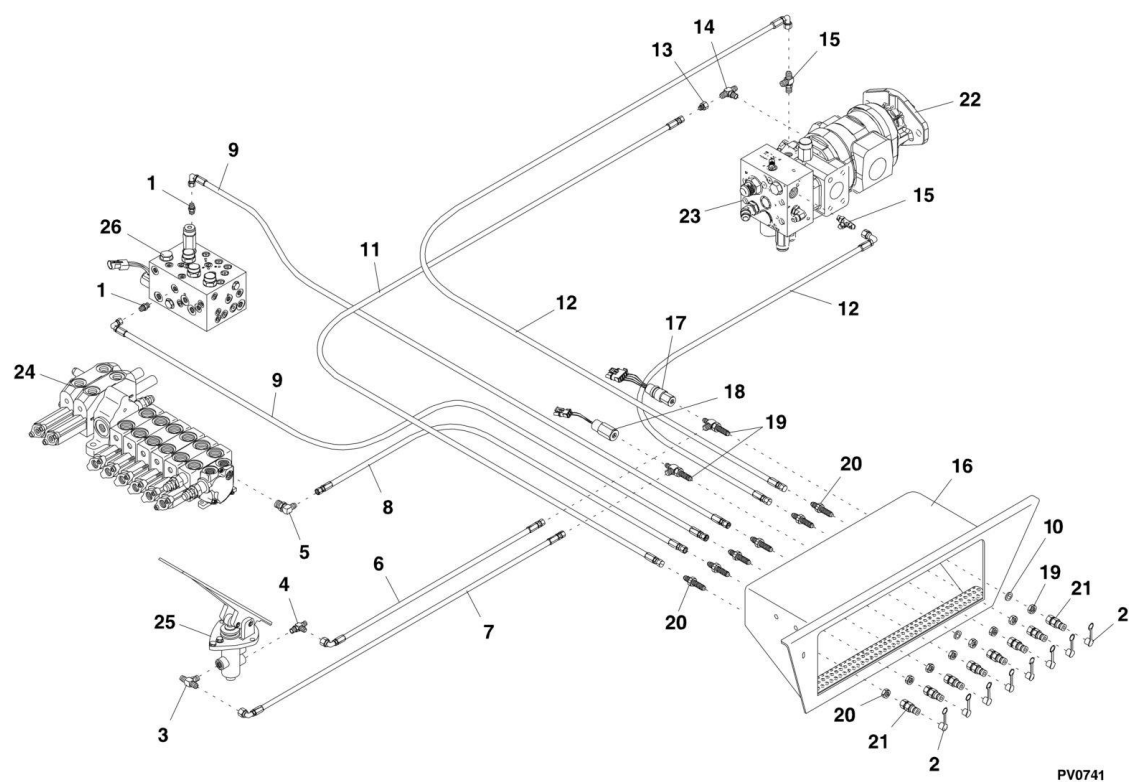
## SECTION 8 - HYDRAULIC CIRCUITS

**FIGURE 8-11. PARK BRAKE CIRCUIT**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                       | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------|-----|
| 1    | 8770189     | 2   | BULKHEAD ELBOW, 45                                                                                |     |
| 2    | 10727185    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 3    | 10719891    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 4    | 10719414    | 1   | CHECK VALVE                                                                                       |     |
| 5    | 10720857    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 6    | 10165649    | 1   | CHECK VALVE                                                                                       |     |
| 7    | 10700102    | 2   | HEX HD CAPSCREW, 5/16-18X3/4                                                                      |     |
| 8    | 10701309    | 2   | LOCKWASHER, 5/16                                                                                  |     |
| 9    |             | Ref | PARKING BRAKE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                             |     |
| 10   | 10166940    | 1   | ELBOW, 90, (includes o-ring)                                                                      |     |
| 11   | 10166941    | 1   | PRESSURE SWITCH                                                                                   |     |
| 12   |             | Ref | REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| 13   | 10837508    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 14   | 2754334     | 1   | HOSE ASSEMBLY                                                                                     |     |
| 15   |             | Ref | PRESSURE FILTER/ACCUMULATOR, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                     |     |
| 16   | 2220415     | 1   | ADAPTOR, (includes o-ring)                                                                        |     |
| 17   | 2220221     | 1   | ADAPTOR, (includes o-ring)                                                                        |     |
| 18   | 2220606     | 1   | SWIVEL TEE                                                                                        |     |
| 19   | 10729167    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 20   | 2221034     | 1   | TEE, (includes o-ring)                                                                            |     |
| 21   |             | Ref | ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                        |     |
| 22   |             | Ref | TANDEM PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                     |     |
| 23   | 10718942    | 1   | BULKHEAD UNION TEE                                                                                |     |
| 24   |             | Ref | STEERING HYDRAULIC CIRCUIT, (See STEERING CYLINDER for Breakdown)                                 |     |
| 25   | 2754335     | 1   | HOSE ASSEMBLY                                                                                     |     |
| 26   | 2754333     | 1   | HOSE ASSEMBLY                                                                                     |     |
| 27   | 2220654     | 1   | ELBOW, 90, (swivel nut)                                                                           |     |
| 28   |             | Ref | BRACKET AND MOUNTING HARDWARE, (See STEERING CYLINDER for Breakdown)                              |     |
| 29   | 10701404    | 1   | FLAT WASHER, 3/8                                                                                  |     |
| 30   | 10726099    | 1   | BRANCH TEE                                                                                        |     |
| 31   | 2752908     | 2   | HOSE ASSEMBLY, (not shown)                                                                        |     |
| 32   |             | Ref | FRONT AXLE ASSEMBLY, (See DRIVE TRAIN SECTION for Breakdown)                                      |     |
| 33   | 10724679    | 1   | HOSE ASSEMBLY, (not shown)                                                                        |     |
| 34   | 2220473     | 1   | ELBOW, 90, (includes o-ring), (not shown)                                                         |     |
| 35   | 2220466     | 1   | ELBOW, 90, (includes o-ring), (not shown)                                                         |     |

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FIGURE 8-12. TEST PORT HYDRAULIC ASSEMBLY



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## SECTION 8 - HYDRAULIC CIRCUITS

**FIGURE 8-12. TEST PORT HYDRAULIC ASSEMBLY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                       | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------|-----|
| 1    | 2220415     | 2   | CONNECTOR, (includes o-ring)                                                                      |     |
| 2    | 8430032     | 8   | DUST CAP                                                                                          |     |
| 3    | 2220899     | 1   | BRANCH TEE, (includes o-ring)                                                                     |     |
| 4    | 2220606     | 1   | RUN TEE, (includes o-ring)                                                                        |     |
| 5    | 2220472     | 1   | ELBOW, 90, (includes o-ring)                                                                      |     |
| 6    | 10837821    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 7    | 10837173    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 8    | 10725239    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 9    | 10727151    | 2   | HOSE ASSEMBLY                                                                                     |     |
| 10   | 10701253    | 2   | FLAT WASHER, 7/16                                                                                 |     |
| 11   | 10837166    | 1   | HOSE ASSEMBLY                                                                                     |     |
| 12   | 10837619    | 2   | HOSE ASSEMBLY                                                                                     |     |
| 13   | 2220619     | 1   | REDUCER ADAPTER                                                                                   |     |
| 14   | 2220999     | 1   | BRANCH TEE, (includes o-ring)                                                                     |     |
| 15   | 2221034     | 2   | RUN TEE, (includes o-ring)                                                                        |     |
| 16   |             | Ref | OPERATORS STEP, (See CAB SECTION for Breakdown)                                                   |     |
| 17   | 10166680    | 1   | PRESSURE SWITCH - D.P.S.T NORMALLY CLOSED, LOW BRAKE PRESSURE, (850psi)                           |     |
| 18   | 10166679    | 1   | PRESSURE SWITCH - S.P.S.T NORMALLY OPEN, SERVICE BRAKE, (250psi)                                  |     |
| 19   | 10728823    | 2   | BULKHEAD CONNECTOR TEE                                                                            |     |
| 20   | 2230021     | 6   | BULKHEAD CONNECTOR                                                                                |     |
| 21   | 8430036     | 8   | NIPPLE END TUBE                                                                                   |     |
| 22   |             | Ref | TANDEM PUMP ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                            |     |
| 23   |             | Ref | ACCUMULATOR CHARGE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                        |     |
| 24   |             | Ref | HYDRAULIC CONTROL VALVE ASSEMBLY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                |     |
| 25   |             | Ref | BRAKE VALVE ASSEMBLY, (See CONTROLS SECTION for Breakdown)                                        |     |
| 26   |             | Ref | REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |

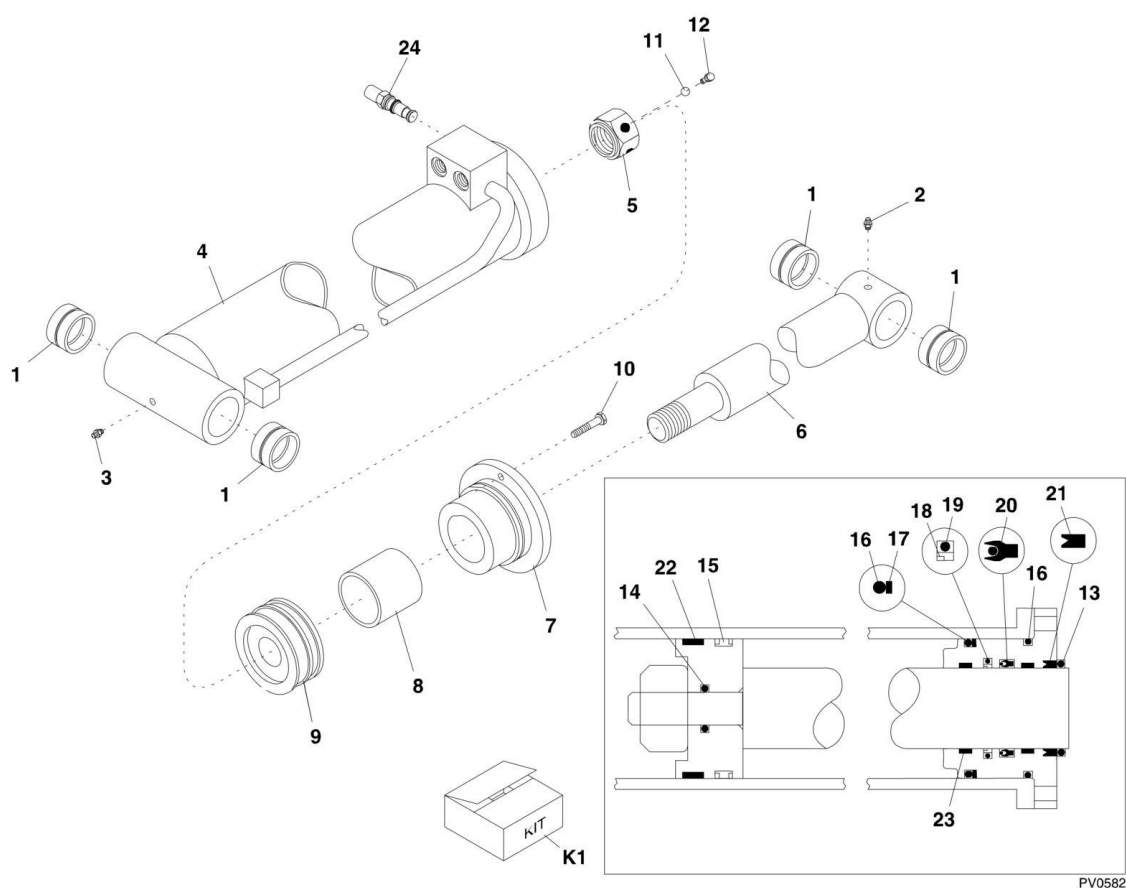




**SECTION 9 - HYDRAULIC COMPONENTS**

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-1. FRONT CARRIAGE TILT CYLINDER (Prior to SN 0160037900, Excluding 0160037855)



PV0582

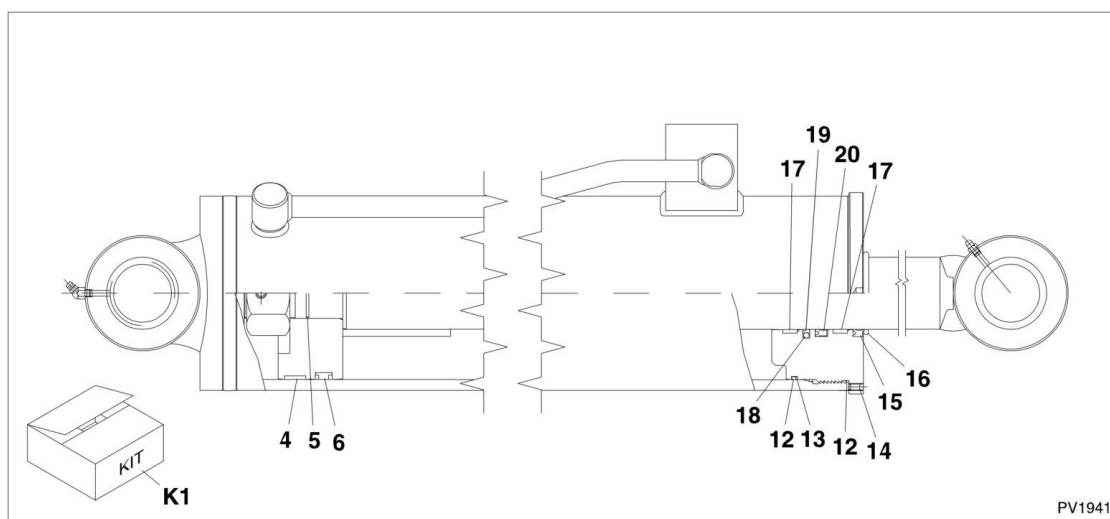
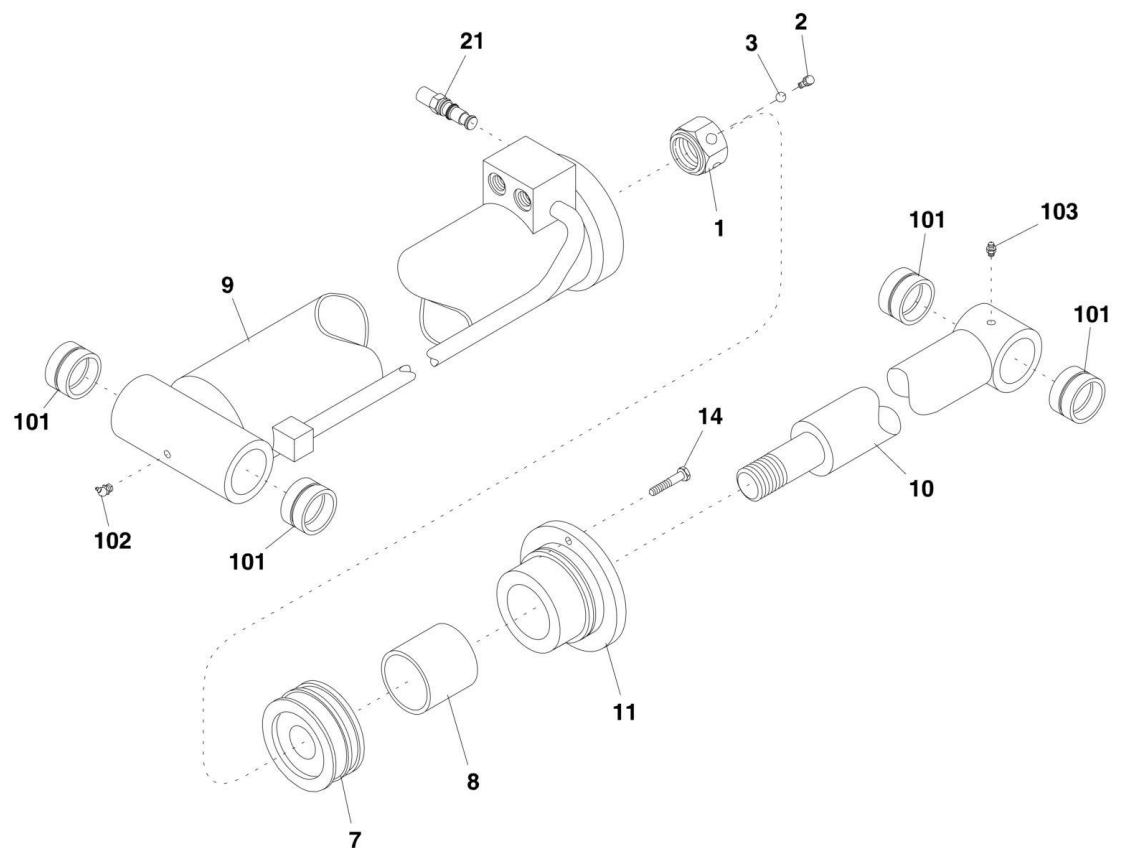
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-1. FRONT CARRIAGE TILT CYLINDER (Prior to SN 0160037900, Excluding 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                        | REV |
|------|-------------|-----|----------------------------------------------------|-----|
|      | 2717046     | 1   | FRONT CARRIAGE TILT CYLINDER, (includes all items) | D   |
| 1    | 10719106    | 4   | BUSHING                                            |     |
| 2    | 10716611    | 1   | GREASE FITTING                                     |     |
| 3    | 10715367    | 1   | GREASE FITTING, 45                                 |     |
| 4    | 7029132     | 1   | BARREL WELDMENT                                    |     |
| 5    | 8036536     | 1   | SPECIAL NUT, (torque to 2600-2800 lb-ft)           |     |
| 6    | 8036539     | 1   | ROD WELDMENT                                       |     |
| 7    | 7029133     | 1   | GUIDE                                              |     |
| 8    | 7029134     | 1   | TUBE                                               |     |
| 9    | 7029135     | 1   | PISTON                                             |     |
| 10   | 8036811     | 1   | SET SCREW, 1/4-20X3/8                              |     |
| 11   | 8036538     | 2   | NYLON BALL                                         |     |
| 12   | 8036537     | 2   | SET SCREW, 3/8-16X3/8                              |     |
| 13   | 7029136     | 1   | O-RING                                             |     |
| 14   | Kit         | 1   | O-RING                                             |     |
| 15   | Kit         | 1   | PISTON SEAL                                        |     |
| 16   | Kit         | 2   | O-RING                                             |     |
| 17   | Kit         | 1   | BACK-UP RING                                       |     |
| 18   | Kit         | 1   | ROD BUFFER                                         |     |
| 19   | Kit         | 1   | O-RING                                             |     |
| 20   | Kit         | 1   | SEAL                                               |     |
| 21   | Kit         | 1   | ROD WIPER                                          |     |
| 22   | Kit         | 1   | WEAR RING                                          |     |
| 23   | Kit         | 2   | WEAR RING                                          |     |
| 24   | 10729947    | 1   | CARTRIDGE, COUNTERBALANCE VALVE                    |     |
| 24   | 2900770     | 1   | SEAL KIT                                           |     |
| K1   | 8036562     | 1   | SEAL KIT, (includes items 14 thru 23)              |     |

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FIGURE 9-2. FRONT CARRIAGE TILT CYLINDER (SN 0160037900 to Present, Including 0160037855)



PV1941

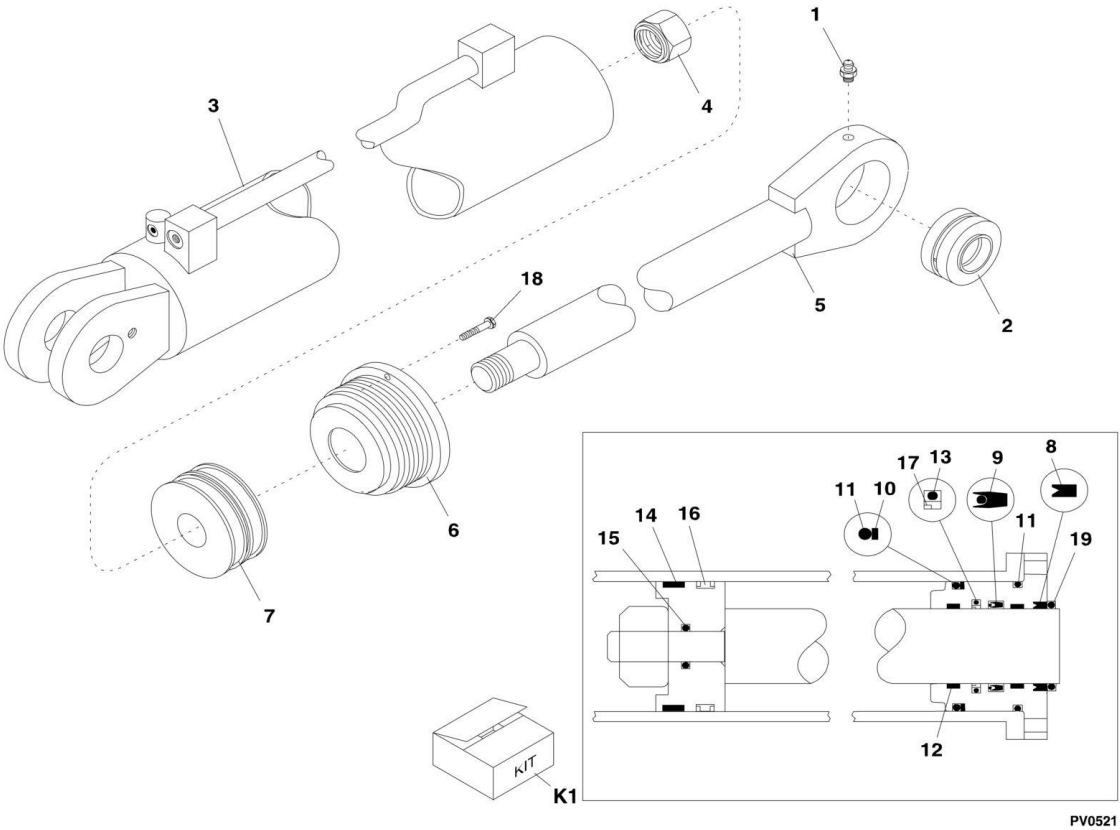
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-2. FRONT CARRIAGE TILT CYLINDER (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                  | REV |
|------|-------------|-----|--------------------------------------------------------------|-----|
|      | 1001103643  | 1   | FRONT CARRIAGE TILT CYLINDER, (includes all items)           | C   |
| 1    | 8036536     | 1   | SPECIAL NUT, 1-3/4-12                                        |     |
| 2    | 8036537     | 1   | HEX SOCKET SCREW, 3/8-16X3/8                                 |     |
| 3    | 8036538     | 1   | NYLON BALL                                                   |     |
| 4    | Kit         | 1   | WEAR RING                                                    |     |
| 5    | Kit         | 1   | O-RING                                                       |     |
| 6    | Kit         | 1   | T-SEAL PISTON                                                |     |
| 7    | 7029135     | 1   | PISTON                                                       |     |
| 8    | 70022749    | 1   | TUBE                                                         |     |
| 9    | 70022750    | 1   | CYLINDER BODY                                                |     |
| 10   | 70022751    | 1   | ROD                                                          |     |
| 11   | 7029133     | 1   | GUIDE                                                        |     |
| 12   | Kit         | 2   | O-RING                                                       |     |
| 13   | Kit         | 1   | BACK-UP RING                                                 |     |
| 14   | 8036811     | 1   | HEX SOCKET SCREW, 1/4-20X3/8                                 |     |
| 15   | Kit         | 1   | WIPER                                                        |     |
| 16   | 7029136     | 1   | O-RING                                                       |     |
| 17   | Kit         | 2   | WEAR RING                                                    |     |
| 18   | Kit         | 1   | O-RING                                                       |     |
| 19   | Kit         | 1   | ROD BUFFER                                                   |     |
| 20   | Kit         | 1   | Z-SEAL                                                       |     |
| 21   | 10729947    | 1   | COUNTERBALANCE VALVE                                         |     |
| 101  | 70022763    | 4   | BUSHING                                                      |     |
| 102  | 70022764    | 1   | GREASE FITTING, 45                                           |     |
| 103  | 8036823     | 1   | GREASE FITTING, STRAIGHT                                     |     |
| K1   | 8036562     | 1   | SEAL KIT, (includes items 4 thru 6, 12, 13, 15 & 17 thru 20) |     |

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FIGURE 9-3. REAR CARRIAGE TILT CYLINDER



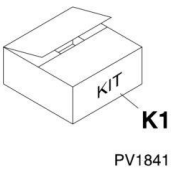
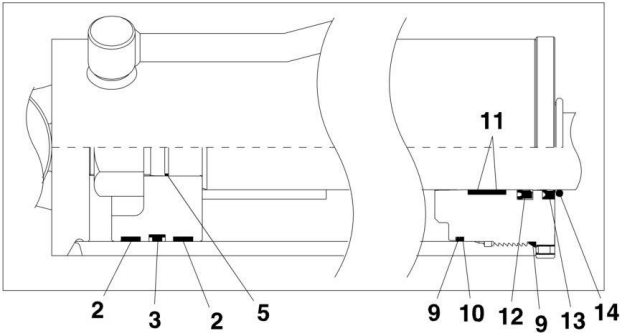
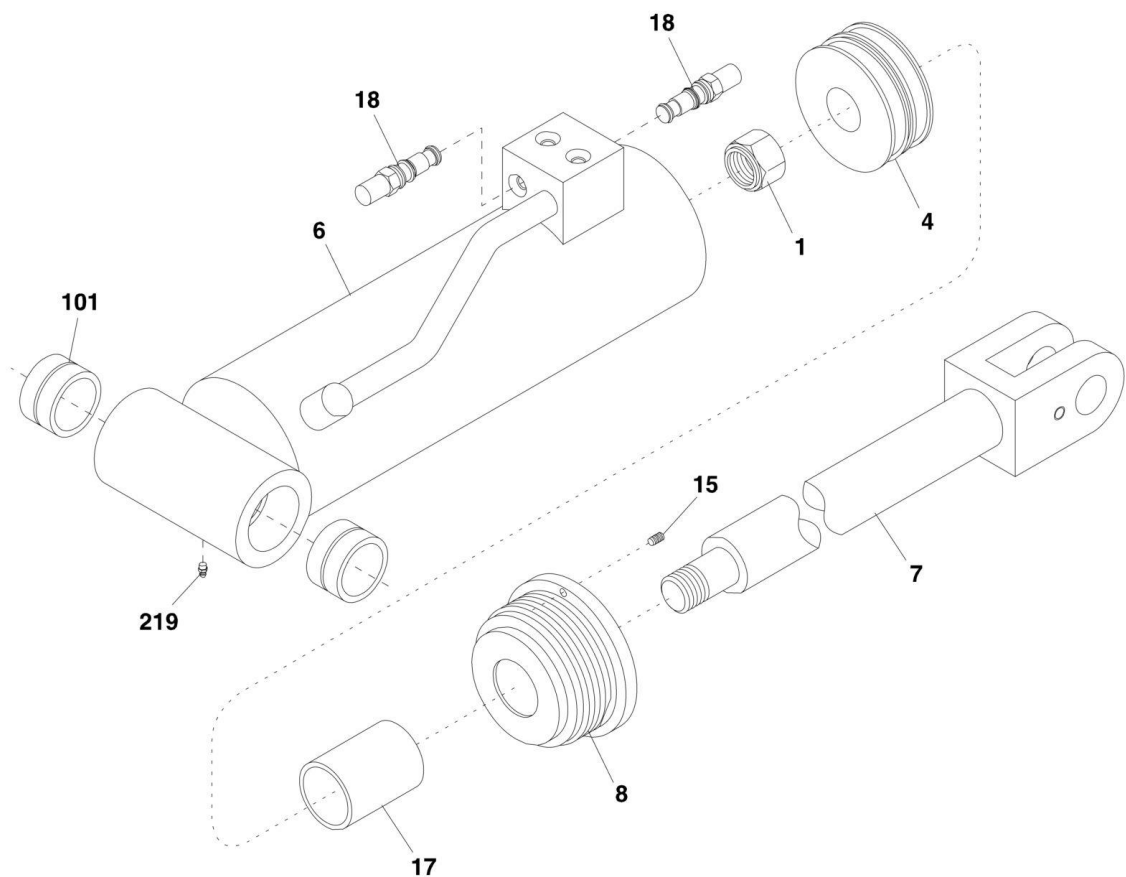
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-3. REAR CARRIAGE TILT CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                        | REV |
|------|-------------|-----|----------------------------------------------------|-----|
|      | 2717045     | 2   | REAR CARRIAGE TILT CYLINDER, (includes all items)  | AB  |
| 1    | 88671025    | 1   | GREASE FITTING                                     |     |
| 2    | 8050001     | 1   | SELF-ALIGNED BUSHING                               |     |
| 3    | 7029142     | 1   | BARREL WELDMENT                                    |     |
| 4    | 7029140     | 1   | SPECIAL NUT, (torque to 930-1000 lb-ft)            |     |
| 5    | 7029143     | 1   | ROD WELDMENT                                       |     |
| 6    | 7029144     | 1   | GUIDE                                              |     |
| 7    | 7029141     | 1   | PISTON                                             |     |
| 8    | Kit         | 1   | WIPER                                              |     |
| 9    | Kit         | 1   | SEAL                                               |     |
| 10   | Kit         | 1   | BACK-UP RING                                       |     |
| 11   | Kit         | 2   | O-RING                                             |     |
| 12   | Kit         | 2   | WEAR RING                                          |     |
| 13   | Kit         | 1   | O-RING                                             |     |
| 14   | Kit         | 1   | WEAR RING                                          |     |
| 15   | Kit         | 1   | O-RING                                             |     |
| 16   | Kit         | 1   | PISTON SEAL                                        |     |
| 17   | Kit         | 1   | ROD BUFFER                                         |     |
| 18   | 7017283     | 1   | SET SCREW, 1/4-20X3/8                              |     |
| 19   | 7029145     | 1   | O-RING                                             |     |
| K1   | 8036561     | 1   | SEAL KIT, (includes items 8 thru 17)               |     |
| N1   | Note        | Ref | <b>QUANTITIES SHOWN ARE FOR ONE CYLINDER ONLY.</b> |     |

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FIGURE 9-4. FRAME TILT CYLINDER





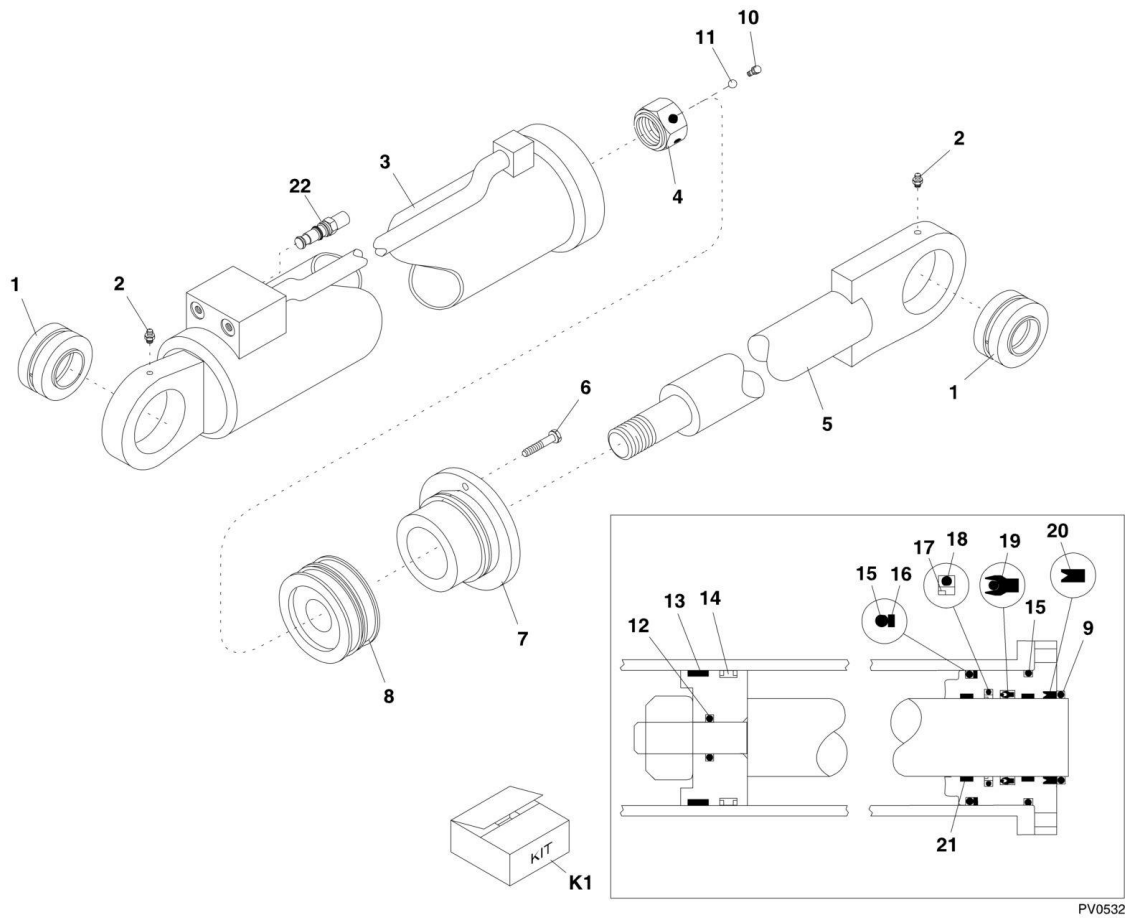
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-4. FRAME TILT CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                     | REV |
|------|-------------|-----|-------------------------------------------------|-----|
|      | 1684460     | 1   | FRAME TILT CYLINDER, (includes items 1 thru 18) | D   |
| 1    | 8036825     | 1   | LOCKNUT, 1-1/2-12                               |     |
| 2    | Kit         | 2   | WEAR RING                                       |     |
| 3    | Kit         | 1   | PISTON T-SEAL                                   |     |
| 4    | 7029149     | 1   | PISTON                                          |     |
| 5    | Kit         | 1   | O-RING                                          |     |
| 6    | 7029150     | 1   | BARREL WELDMENT                                 |     |
| 7    | 70022612    | 1   | ROD WELDMENT                                    |     |
| 8    | 7029152     | 1   | ROD GUIDE                                       |     |
| 9    | Kit         | 2   | O-RING                                          |     |
| 10   | Kit         | 1   | BACK-UP RING                                    |     |
| 11   | Kit         | 2   | WEAR RING                                       |     |
| 12   | Kit         | 1   | Z-SEAL                                          |     |
| 13   | Kit         | 1   | CANNED WIPER                                    |     |
| 14   | 7029153     | 1   | O-RING                                          |     |
| 15   | 7017283     | 1   | SET SCREW, 1/4-20                               |     |
| 17   | 7029154     | 1   | TUBE                                            |     |
| 18   | 10729947    | 2   | COUNTERBALANCE VALVE                            |     |
| 18   | 2900770     | 1   | SEAL KIT                                        |     |
| 101  | 10116228    | 2   | BUSHING                                         |     |
| 219  | 10715367    | 1   | GREASE FITTING                                  |     |
| K1   | 8036557     | 1   | SEAL KIT, (includes items 2, 3, 5 & 9 thru 13)  |     |

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FIGURE 9-5. HOIST CYLINDER



PV0532

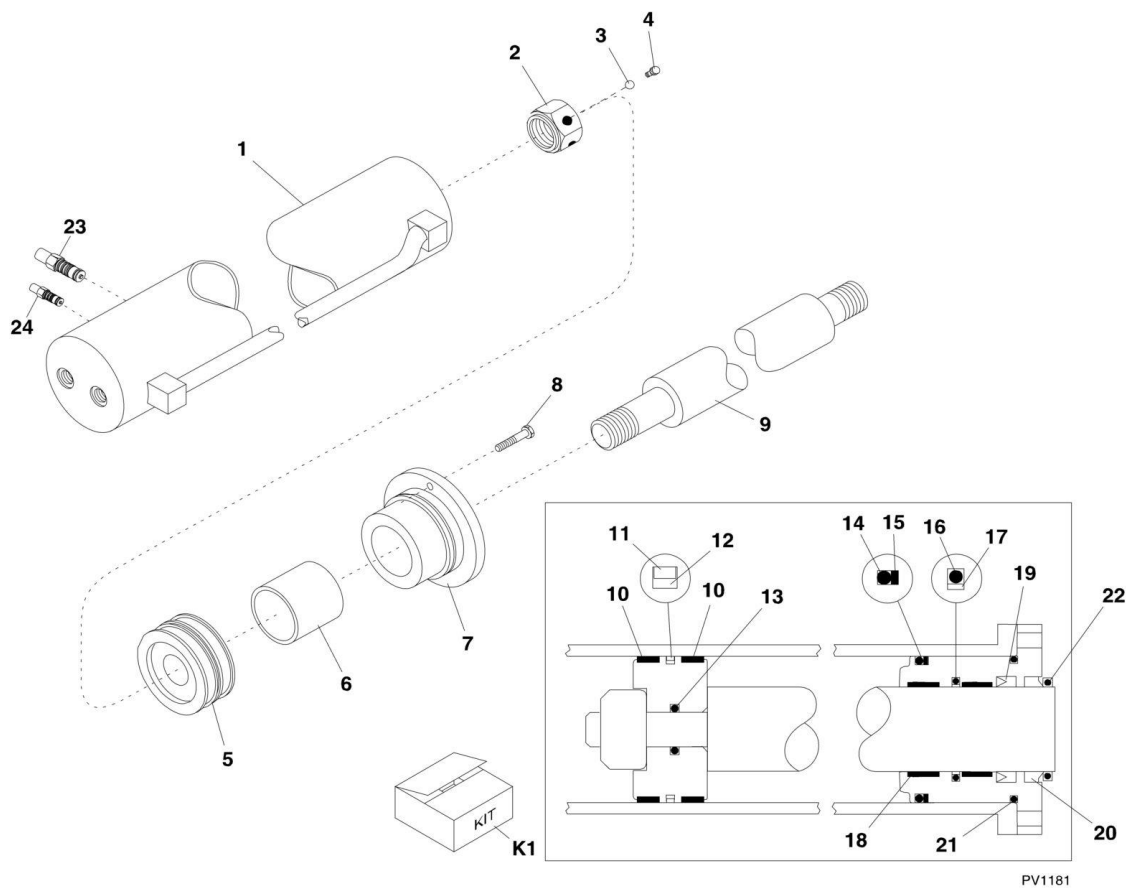
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-5. HOIST CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                       | REV |
|------|-------------|-----|---------------------------------------------------|-----|
|      | 2717042     | 2   | HOIST CYLINDER, (includes all items)              | D   |
| 1    | 10718830    | 2   | SELF-ALIGNED BUSHING                              |     |
| 2    | 10716611    | 2   | GREASE FITTING                                    |     |
| 3    | 7029146     | 1   | BARREL WELDMENT                                   |     |
| 4    | 8036536     | 1   | SPECIAL NUT, (torque to 2600-2800 lb-ft)          |     |
| 5    | 8036540     | 1   | ROD WELDMENT                                      |     |
| 6    | 7017283     | 1   | SET SCREW, 1/4-20X3/8                             |     |
| 7    | 7029147     | 1   | GUIDE                                             |     |
| 8    | 7029135     | 1   | PISTON                                            |     |
| 9    | 7029148     | 1   | O-RING                                            |     |
| 10   | 8036537     | 1   | SET SCREW, 3/8-16X3/8                             |     |
| 11   | 8036538     | 1   | NYLON BALL                                        |     |
| 12   | Kit         | 1   | O-RING                                            |     |
| 13   | Kit         | 1   | WEAR RING                                         |     |
| 14   | Kit         | 1   | PISTON SEAL                                       |     |
| 15   | Kit         | 2   | O-RING                                            |     |
| 16   | Kit         | 1   | BACK-UP RING                                      |     |
| 17   | Kit         | 1   | ROD BUFFER                                        |     |
| 18   | Kit         | 1   | O-RING                                            |     |
| 19   | Kit         | 1   | SEAL                                              |     |
| 20   | Kit         | 1   | ROD WIPER                                         |     |
| 21   | Kit         | 2   | WEAR RING                                         |     |
| 22   | 10729947    | 1   | CARTRIDGE, COUNTERBALANCE VALVE                   |     |
| 22   | 2900770     | 1   | SEAL KIT                                          |     |
| K1   | 7028622     | 1   | SEAL KIT, (includes items 11 thru 21)             |     |
| N1   | Note        | Ref | <b>QUANTITIES SHOWN ARE FOR ONE CYLINDER ONLY</b> |     |

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FIGURE 9-6. BOOM EXTENSION CYLINDER



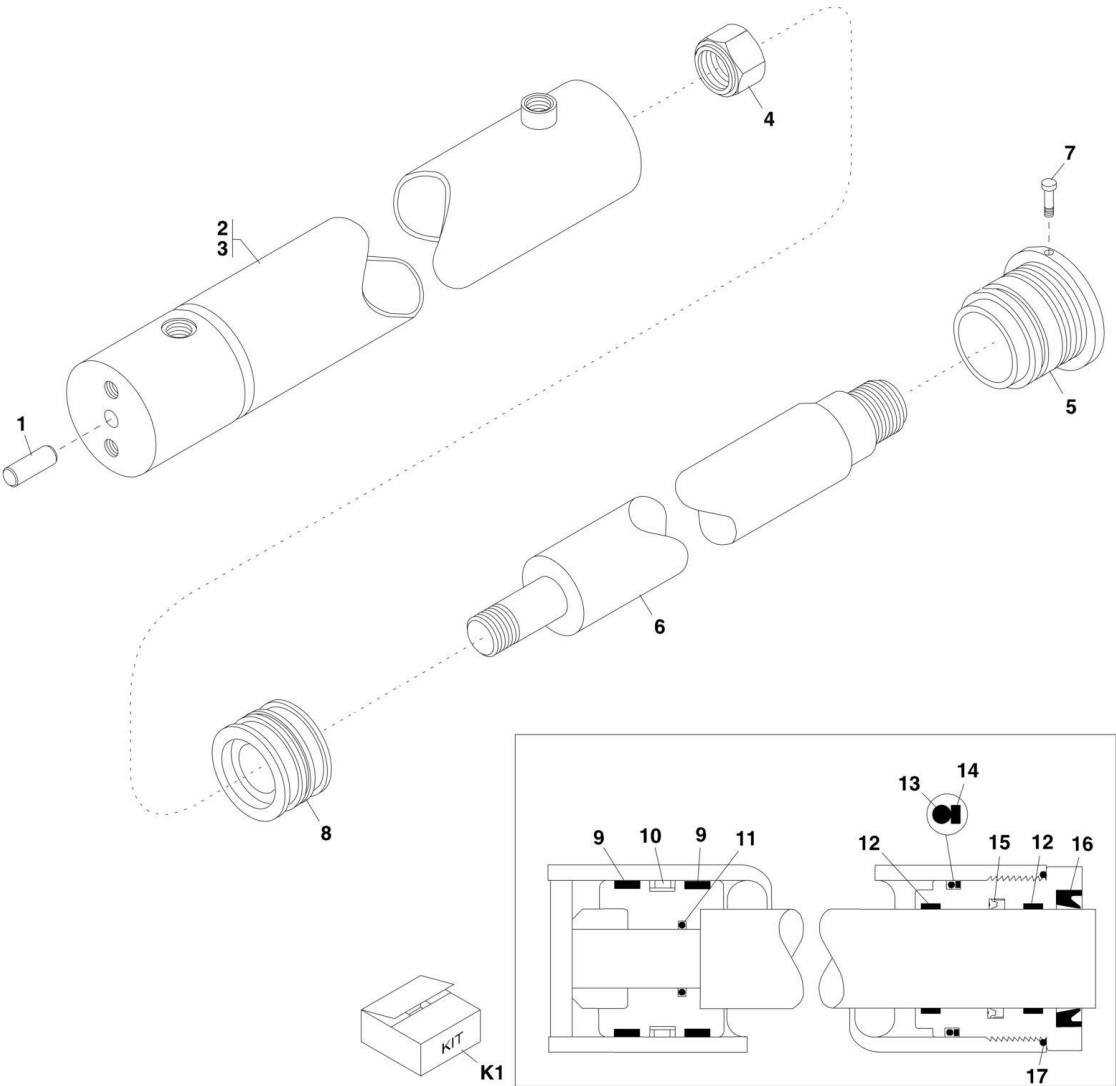
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-6. BOOM EXTENSION CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                   | REV |
|------|-------------|-----|-----------------------------------------------|-----|
|      | 2717047     | 1   | BOOM EXTENSION CYLINDER, (includes all items) | D   |
| 1    | 7029157     | 1   | BARREL WELDMENT                               |     |
| 2    | 8036536     | 1   | SPECIAL NUT, (torque to 1735-1885 lb-ft)      |     |
| 3    | 8036538     | 2   | NYLON BALL                                    |     |
| 4    | 8036537     | 2   | SET SCREW, 3/8-16X3/8                         |     |
| 5    | 7029155     | 1   | PISTON                                        |     |
| 6    | 7029156     | 1   | TUBE                                          |     |
| 7    | 7029160     | 1   | GUIDE                                         |     |
| 8    | 7017283     | 1   | SET SCREW, 1/4-20X3/8                         |     |
| 9    | 7029158     | 1   | ROD WELDMENT                                  |     |
| 10   | Kit         | 2   | WEAR RING                                     |     |
| 11   | Kit         | 1   | PISTON SEAL                                   |     |
| 12   | Kit         | 1   | EXP SQUARE                                    |     |
| 13   | Kit         | 1   | O-RING                                        |     |
| 14   | Kit         | 1   | O-RING                                        |     |
| 15   | Kit         | 1   | BACK-UP RING                                  |     |
| 16   | Kit         | 1   | O-RING                                        |     |
| 17   | Kit         | 1   | ROD BUFFER                                    |     |
| 18   | Kit         | 2   | WEAR RING                                     |     |
| 19   | Kit         | 1   | U CUP LIP                                     |     |
| 20   | Kit         | 1   | WIPER RING                                    |     |
| 21   | Kit         | 1   | O-RING                                        |     |
| 22   | 7029159     | 1   | O-RING                                        |     |
| 23   | 10730444    | 1   | COUNTERBALANCE VALVE CARTRIDGE                |     |
| 23   | 10740491    | 1   | SEAL KIT                                      |     |
| 24   | 10727827    | 1   | COUNTERBALANCE VALVE CARTRIDGE                |     |
| 24   | 10730927    | 1   | SEAL KIT                                      |     |
| K1   | 8036563     | 1   | SEAL KIT, (includes items 10 thru 21)         |     |

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FIGURE 9-7. TRANSFER CYLINDER



PV0552

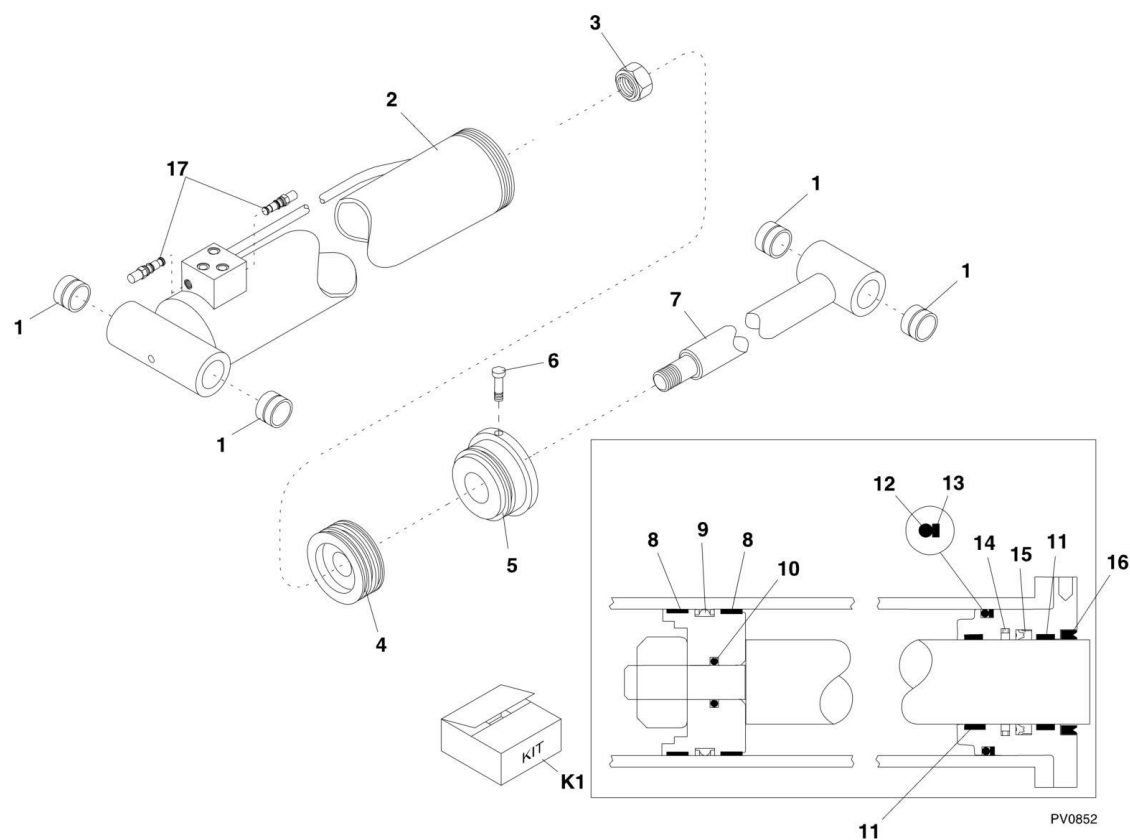
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-7. TRANSFER CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                          | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------------------|-----|
|      | 1102018     | 1   | TRANSFER CYLINDER ASSY, (includes all items)                                                         | AA  |
| 1    | 10837143    | 1   | DOWEL PIN, .75X2                                                                                     |     |
| 2    | 1102022     | NLA | TRANSFER CYLINDER, (no longer available, use 1102018 for replacement or items 3 thru 17 for service) |     |
| 3    | 7029167     | 1   | BARREL WELDMENT                                                                                      |     |
| 4    | 7029168     | 1   | SPECIAL NUT                                                                                          |     |
| 5    | 7029169     | 1   | HEAD                                                                                                 |     |
| 6    | 7029170     | 1   | ROD WELDMENT                                                                                         |     |
| 7    | 7029171     | 1   | SELF TAPPING SET SCREW                                                                               |     |
| 8    | 7029172     | 1   | PISTON                                                                                               |     |
| 9    | Kit         | 2   | WEAR RING                                                                                            |     |
| 10   | Kit         | 1   | PISTON SEAL                                                                                          |     |
| 11   | Kit         | 1   | O-RING                                                                                               |     |
| 12   | Kit         | 2   | WEAR RING                                                                                            |     |
| 13   | Kit         | 1   | O-RING                                                                                               |     |
| 14   | Kit         | 1   | BACK-UP RING                                                                                         |     |
| 15   | Kit         | 1   | ROD SEAL                                                                                             |     |
| 16   | Kit         | 1   | CANNED WIPER                                                                                         |     |
| 17   | Kit         | 1   | O-RING                                                                                               |     |
| K1   | 1102019     | 1   | SEAL KIT, (includes items 9 thru 17)                                                                 |     |

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FIGURE 9-8. OUTRIGGER CYLINDER (Prior to SN 0160058596)





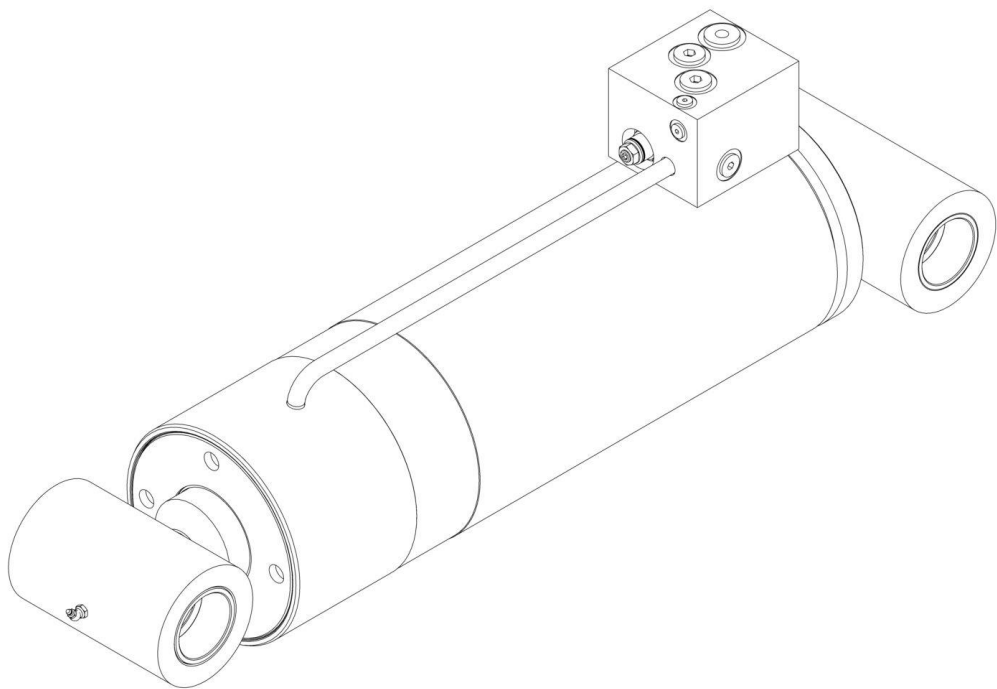
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-8. OUTRIGGER CYLINDER (Prior to SN 0160058596)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                       | REV |
|------|-------------|-----|---------------------------------------------------|-----|
|      | 1102015     | 2   | OUTRIGGER CYLINDER, (includes all items)          | D   |
| 1    | 10116228    | 4   | BUSHING                                           |     |
| 2    | 7029175     | 1   | BARREL WELDMENT                                   |     |
| 3    | 7029176     | 1   | SPECIAL NUT                                       |     |
| 4    | 7029177     | 1   | PISTON                                            |     |
| 5    | 7029178     | 1   | HEAD                                              |     |
| 6    | 7029171     | 1   | SELF TAPPING SET SCREW                            |     |
| 7    | 7029179     | 1   | ROD WELDMENT                                      |     |
| 8    | Kit         | 2   | WEAR RING                                         |     |
| 9    | Kit         | 1   | PISTON SEAL                                       |     |
| 10   | Kit         | 1   | O-RING                                            |     |
| 11   | Kit         | 2   | WEAR RING                                         |     |
| 12   | Kit         | 1   | O-RING                                            |     |
| 13   | Kit         | 1   | BACK-UP RING                                      |     |
| 14   | Kit         | 1   | BUFFER SEAL                                       |     |
| 15   | Kit         | 1   | ROD SEAL                                          |     |
| 16   | Kit         | 1   | WIPER                                             |     |
| 17   | 10837450    | 2   | COUNTERBALANCE VALVE CARTRIDGE                    |     |
| 17   | 2900770     | 1   | SEAL KIT                                          |     |
| K1   | 1102016     | 1   | SEAL KIT, (includes items 8 thru 16)              |     |
| N1   | Note        | Ref | <b>QUANTITIES SHOWN ARE FOR ONE CYLINDER ONLY</b> |     |

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**FIGURE 9-9. OUTRIGGER CYLINDER (SN 0160058596 to Present)**



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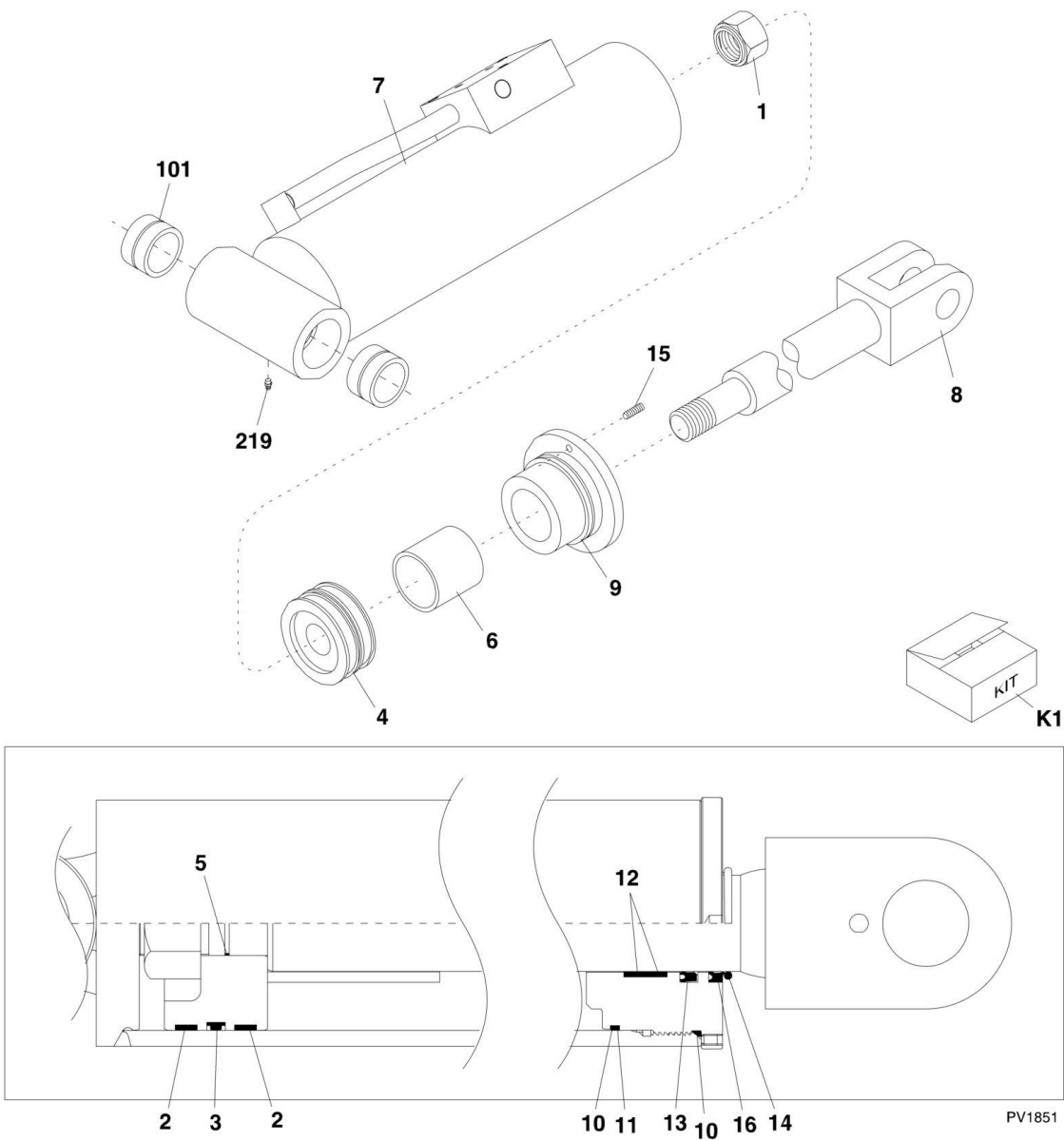
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-9. OUTRIGGER CYLINDER (SN 0160058596 to Present)**

| ITEM | PART NUMBER | QTY | DESCRIPTION        | REV |
|------|-------------|-----|--------------------|-----|
|      | 1001140447  | 2   | OUTRIGGER CYLINDER | B   |

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FIGURE 9-10. REAR STABILIZER CYLINDER (Including 1001140447)



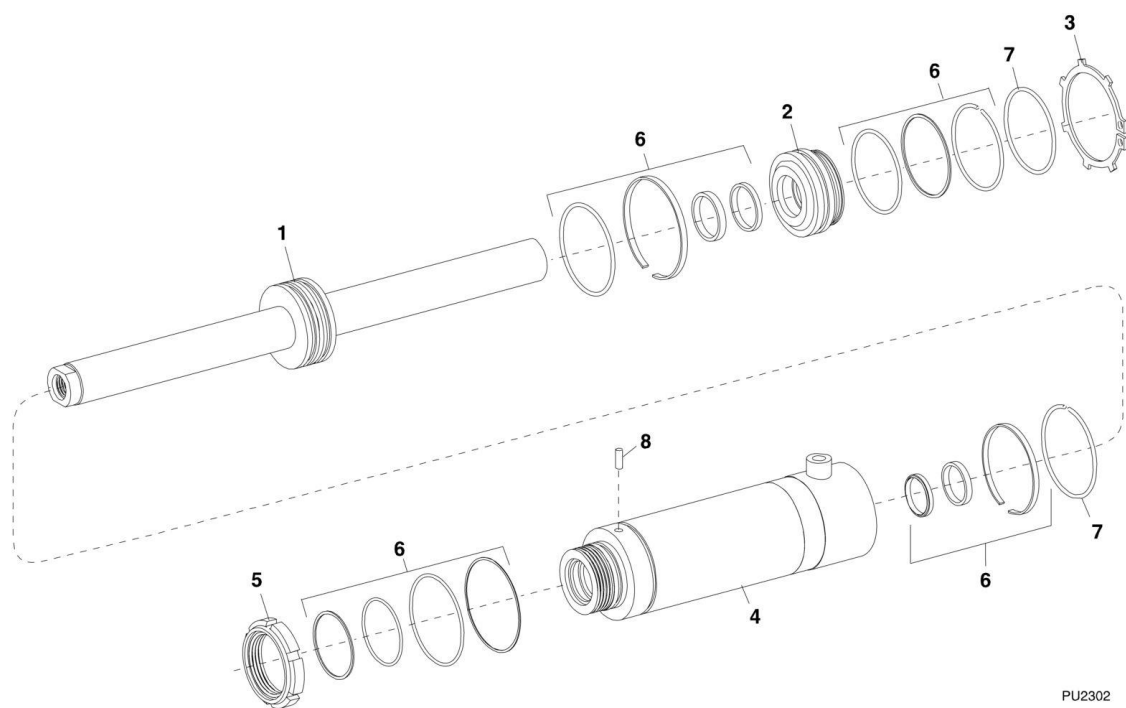
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-10. REAR STABILIZER CYLINDER (Including 1001140447)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                             | REV |
|------|-------------|-----|---------------------------------------------------------|-----|
|      | 1684461     | 1   | REAR STABILIZER CYLINDER, (includes items 1 thru 16)    | C   |
| 1    | 8036825     | 1   | HEX LOCKNUT, 1-1/2-12                                   |     |
| 2    | Kit         | 2   | WEAR RING                                               |     |
| 3    | Kit         | 1   | PISTON T-SEAL                                           |     |
| 4    | 7029149     | 1   | PISTON                                                  |     |
| 5    | Kit         | 1   | O-RING                                                  |     |
| 6    | N.S.S.      | 1   | TUBE                                                    |     |
| 7    | 7029162     | 1   | BARREL WELDMENT                                         |     |
| 8    | 70022612    | 1   | ROD WELDMENT                                            |     |
| 9    | 7029152     | 1   | GUIDE                                                   |     |
| 10   | Kit         | 2   | O-RING                                                  |     |
| 11   | Kit         | 1   | BACK-UP RING                                            |     |
| 12   | Kit         | 2   | WEAR RING                                               |     |
| 13   | Kit         | 1   | Z-SEAL                                                  |     |
| 14   | 7029153     | 1   | O-RING                                                  |     |
| 15   | 7017283     | 1   | SET SCREW                                               |     |
| 16   | Kit         | 1   | CANNED WIPER                                            |     |
| 101  | 10116228    | 2   | BUSHING                                                 |     |
| 219  | 10715367    | 1   | GREASE FITTING                                          |     |
| K1   | 8036557     | 1   | SEAL KIT, (includes items 2, 3, 5, 10 thru 13, 14 & 16) |     |

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FIGURE 9-11. STEERING CYLINDER



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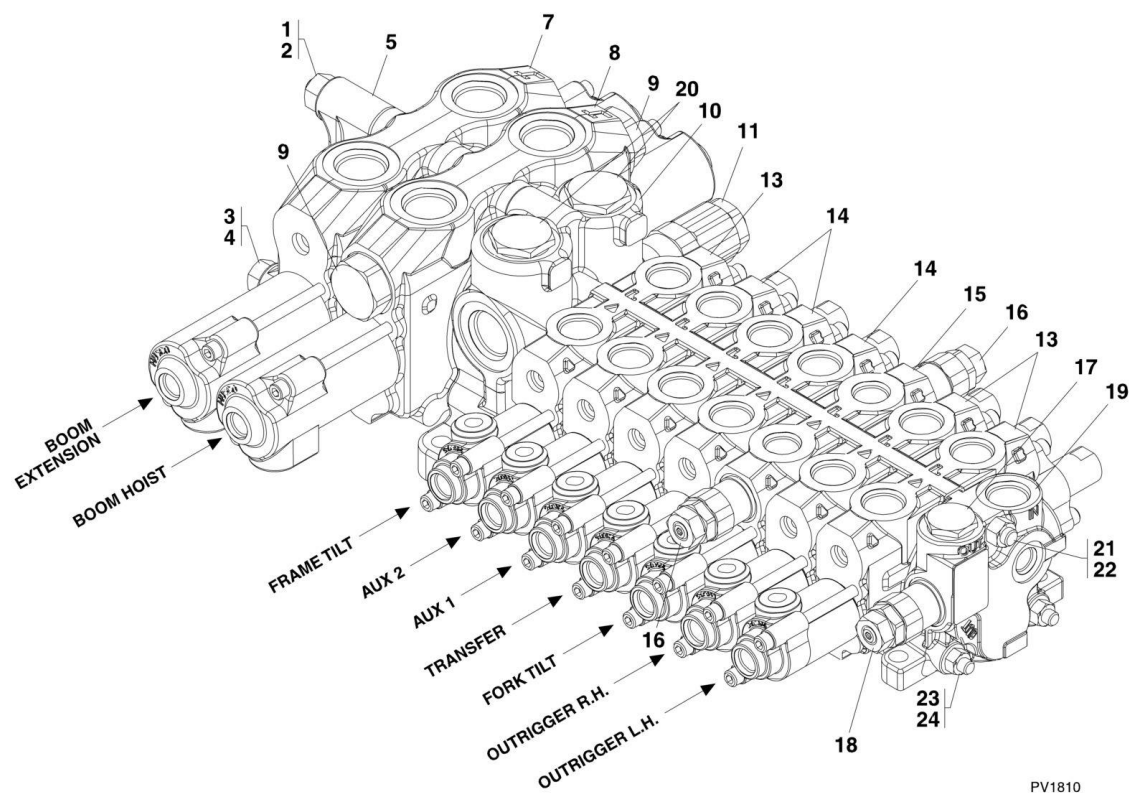
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-11. STEERING CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                                                | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|      | 1321149     | NLA | STEERING CYLINDER, (Prior to Front Axle SN 958841 and Rear Axle SN 955235), (no longer available, use 70021617 for replacement), (includes items 1 thru 6) |     |
|      | 70021617    | 1   | STEERING CYLINDER, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present), (includes items 1 thru 8)                                         |     |
| 1    | N.S.S.      | 1   | PISTON ROD, (Prior to Front Axle SN 958841 and Rear Axle SN 955235)                                                                                        |     |
| 1    | 70021568    | 1   | PISTON ROD, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)                                                                           |     |
| 2    | N.S.S.      | 1   | GUIDE PIECE, (Prior to Front Axle SN 958841 and Rear Axle SN 955235)                                                                                       |     |
| 2    | 70021569    | 1   | GUIDE PIECE, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)                                                                          |     |
| 3    | N.S.S.      | 1   | L-RING, (Prior to Front Axle SN 958841 and Rear Axle SN 955235)                                                                                            |     |
| 3    | 70021571    | 1   | L-RING, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)                                                                               |     |
| 4    | N.S.S.      | 1   | CYLINDER TUBE                                                                                                                                              |     |
| 5    | 8035998     | 1   | SLOTTED NUT, (Prior to Front Axle SN 958841 and Rear Axle SN 955235)                                                                                       |     |
| 5    | 70021570    | 1   | SLOTTED NUT, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)                                                                          |     |
| 6    | 8035981     | 1   | SEAL KIT, (Prior to Front Axle SN 958841 and Rear Axle SN 955235)                                                                                          |     |
| 6    | 70021495    | 1   | SEAL KIT, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)                                                                             |     |
| 7    | 70021726    | 2   | RETAINING RING, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)                                                                       |     |
| 8    | 70022610    | 1   | SLOTTED PIN, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present)                                                                          |     |

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FIGURE 9-12. HYDRAULIC CONTROL VALVE ASSEMBLY



PV1810



## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-12. HYDRAULIC CONTROL VALVE ASSEMBLY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                                                             | REV |
|------|-------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|      | 10239053    | NLA | 8 SECTION MID-INLET VALVE ASSY, (Single Aux), (no longer available, use 1001104020 for replacement), (includes items 1 thru 11, 6 of 12, 13, 2 of item 14 & 15 thru 24) | B   |
|      | 1001104020  | 1   | 8 SECTION MID-INLET VALVE ASSY, (Single Aux), (includes items 1 thru 11, 6 of 12, 13, 2 of item 14 & 15 thru 24)                                                        | A   |
|      | 10239054    | NLA | 9 SECTION MID-INLET VALVE ASSY, (Dual Aux), (no longer available, use 1001104021 for replacement), (includes all items)                                                 | B   |
|      | 1001104021  | 1   | 9 SECTION MID-INLET VALVE ASSY, (Dual Aux), (includes all items)                                                                                                        | A   |
| 1    | 8035347     | 1   | SPECIAL NUT                                                                                                                                                             |     |
| 2    | 70022614    | 1   | TIE ROD                                                                                                                                                                 |     |
| 3    | 8035381     | 2   | SPECIAL NUT                                                                                                                                                             |     |
| 4    | 70022615    | 2   | TIE ROD                                                                                                                                                                 |     |
| 5    | 10837902    | 1   | OUTLET SECTION                                                                                                                                                          |     |
| 6    | 8034697     | 3   | O-RING, (located between Hoist and Extension valve sections), (not shown)                                                                                               |     |
| 7    | 70022616    | 1   | BOOM EXTENSION VALVE SECTION ASSY                                                                                                                                       |     |
| 7    | 70022617    | 2   | SOCKET HD CAPSCREW                                                                                                                                                      |     |
| 7    | 70022618    | 1   | SPOOL CAP                                                                                                                                                               |     |
| 7    | 8035362     | 1   | SOCKET HD SHOULDER BOLT                                                                                                                                                 |     |
| 7    | 70022619    | 2   | SPRING SEAT                                                                                                                                                             |     |
| 7    | 8035355     | 1   | SPRING                                                                                                                                                                  |     |
| 7    | 70022620    | 1   | O-RING                                                                                                                                                                  |     |
| 7    | 8903014     | 1   | SPOOL CAP RETAINER                                                                                                                                                      |     |
| 7    | 10791781    | 2   | O-RING                                                                                                                                                                  |     |
| 7    | 70022621    | 1   | SPOOL CAP                                                                                                                                                               |     |
| 7    | 70022622    | 2   | SOCKET HD CAPSCREW                                                                                                                                                      |     |
| 7    | 10791783    | 1   | SPRING                                                                                                                                                                  |     |
| 7    | 10791784    | 1   | POPPET                                                                                                                                                                  |     |
| 8    | 70022623    | 1   | BOOM HOIST VALVE SECTION ASSY                                                                                                                                           |     |
| 8    | 70022617    | 2   | SOCKET HD CAPSCREW                                                                                                                                                      |     |
| 8    | 70022618    | 1   | SPOOL CAP                                                                                                                                                               |     |
| 8    | 8035362     | 1   | SOCKET HD SHOULDER BOLT                                                                                                                                                 |     |
| 8    | 70022619    | 2   | SPRING SEAT                                                                                                                                                             |     |
| 8    | 8035355     | 1   | SPRING                                                                                                                                                                  |     |
| 8    | 70022620    | 1   | O-RING                                                                                                                                                                  |     |
| 8    | 8903014     | 1   | SPOOL CAP RETAINER                                                                                                                                                      |     |
| 8    | 10791781    | 2   | O-RING                                                                                                                                                                  |     |
| 8    | 70022621    | 1   | SPOOL CAP                                                                                                                                                               |     |
| 8    | 70022622    | 2   | SOCKET HD CAPSCREW                                                                                                                                                      |     |
| 8    | 10791783    | 1   | SPRING                                                                                                                                                                  |     |
| 8    | 10791784    | 1   | POPPET                                                                                                                                                                  |     |
| 9    | 10837953    | 2   | SHUT-OFF PLUG                                                                                                                                                           |     |
| 10   | 70022624    | 1   | MID-INLET SECTION                                                                                                                                                       |     |
| 11   | 70022625    | 1   | RELIEF VALVE ASSY, (3100-3000psi)                                                                                                                                       |     |
| 12   | 10837923    | 8   | O-RING, (located between Frame Tilt/Outtrigger/Aux/Transfer/Fork Tilt valve sections), (not shown)                                                                      |     |
| 13   | 10837904    | 3   | FRAME TILT/OUTRIGGER VALVE SECTION ASSY                                                                                                                                 |     |
| 13   | 8035359     | 6   | SOCKET HD CAPSCREW                                                                                                                                                      |     |
| 13   | 8036286     | 3   | SPOOL CAP                                                                                                                                                               |     |
| 13   | 10837964    | 3   | SPOOL END                                                                                                                                                               |     |

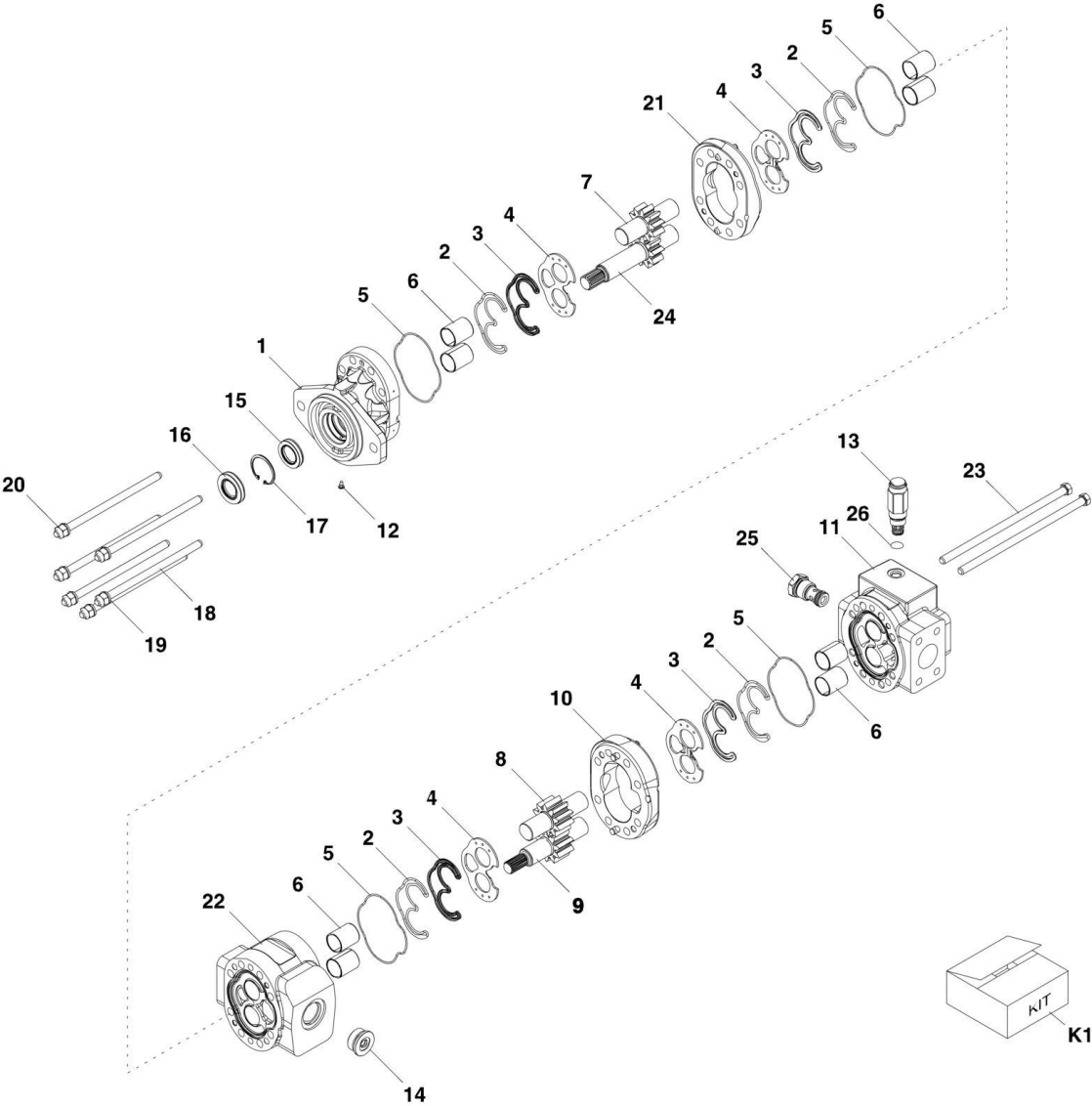
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| ITEM | PART NUMBER | QTY | DESCRIPTION                                 | REV |
|------|-------------|-----|---------------------------------------------|-----|
| 13   | 70022626    | 6   | SPRING SEAT                                 |     |
| 13   | 8035356     | 3   | SPRING                                      |     |
| 13   | 8035374     | 3   | SPOOL CAP RETAINER, (includes back-up ring) |     |
| 13   | 70022627    | 3   | SPOOL CAP                                   |     |
| 13   | 8035373     | 3   | SEAL PLATE                                  |     |
| 13   | 8037088     | 6   | SOCKET HD CAPSCREW                          |     |
| 13   | 10837937    | 3   | POPPET                                      |     |
| 13   | 10837927    | 3   | SPRING                                      |     |
| 14   | 10837905    | 3   | AUX/TRANSFER VALVE SECTION ASSY             |     |
| 14   | 8035359     | 6   | SOCKET HD CAPSCREW                          |     |
| 14   | 8036286     | 3   | SPOOL CAP                                   |     |
| 14   | 10837964    | 3   | SPOOL END                                   |     |
| 14   | 70022626    | 6   | SPRING SEAT                                 |     |
| 14   | 8035356     | 3   | SPRING                                      |     |
| 14   | 8035374     | 3   | SPOOL CAP RETAINER, (includes back-up ring) |     |
| 14   | 70022627    | 3   | SPOOL CAP                                   |     |
| 14   | 8035373     | 3   | SEAL PLATE                                  |     |
| 14   | 8037088     | 6   | SOCKET HD CAPSCREW                          |     |
| 14   | 10837937    | 3   | POPPET                                      |     |
| 14   | 10837927    | 3   | SPRING                                      |     |
| 15   | 10837906    | 1   | FORK TILT VALVE SECTION ASSY                |     |
| 15   | 8035359     | 2   | SOCKET HD CAPSCREW                          |     |
| 15   | 8036286     | 1   | SPOOL CAP                                   |     |
| 15   | 10837964    | 1   | SPOOL END                                   |     |
| 15   | 70022626    | 2   | SPRING SEAT                                 |     |
| 15   | 8035356     | 1   | SPRING                                      |     |
| 15   | 8035374     | 1   | SPOOL CAP RETAINER, (includes back-up ring) |     |
| 15   | 70022627    | 1   | SPOOL CAP                                   |     |
| 15   | 8035373     | 1   | SEAL PLATE                                  |     |
| 15   | 8037088     | 2   | SOCKET HD CAPSCREW                          |     |
| 15   | 10837937    | 1   | POPPET                                      |     |
| 15   | 10837927    | 1   | SPRING                                      |     |
| 16   | 8033412     | 2   | RELIEF VALVE ASSY, (2900-2800psi)           |     |
| 17   | 70022628    | 1   | PLUG                                        |     |
| 18   | 70022629    | 1   | RELIEF VALVE ASSY, (3225-3125psi)           |     |
| 19   | 10837900    | 1   | INLET SECTION                               |     |
| 20   | 70022630    | 2   | PLUG                                        |     |
| 21   | 70022631    | 1   | TIE ROD, (Single Aux)                       |     |
| 21   | 7029205     | 1   | TIE ROD, (Dual Aux)                         |     |
| 22   | 8035346     | 1   | SPECIAL NUT                                 |     |
| 23   | 70022632    | 2   | TIE ROD, (Single Aux)                       |     |
| 23   | 7029206     | 2   | TIE ROD, (Dual Aux)                         |     |
| 24   | 8035348     | 2   | SPECIAL NUT                                 |     |



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FIGURE 9-13. TANDEM PUMP



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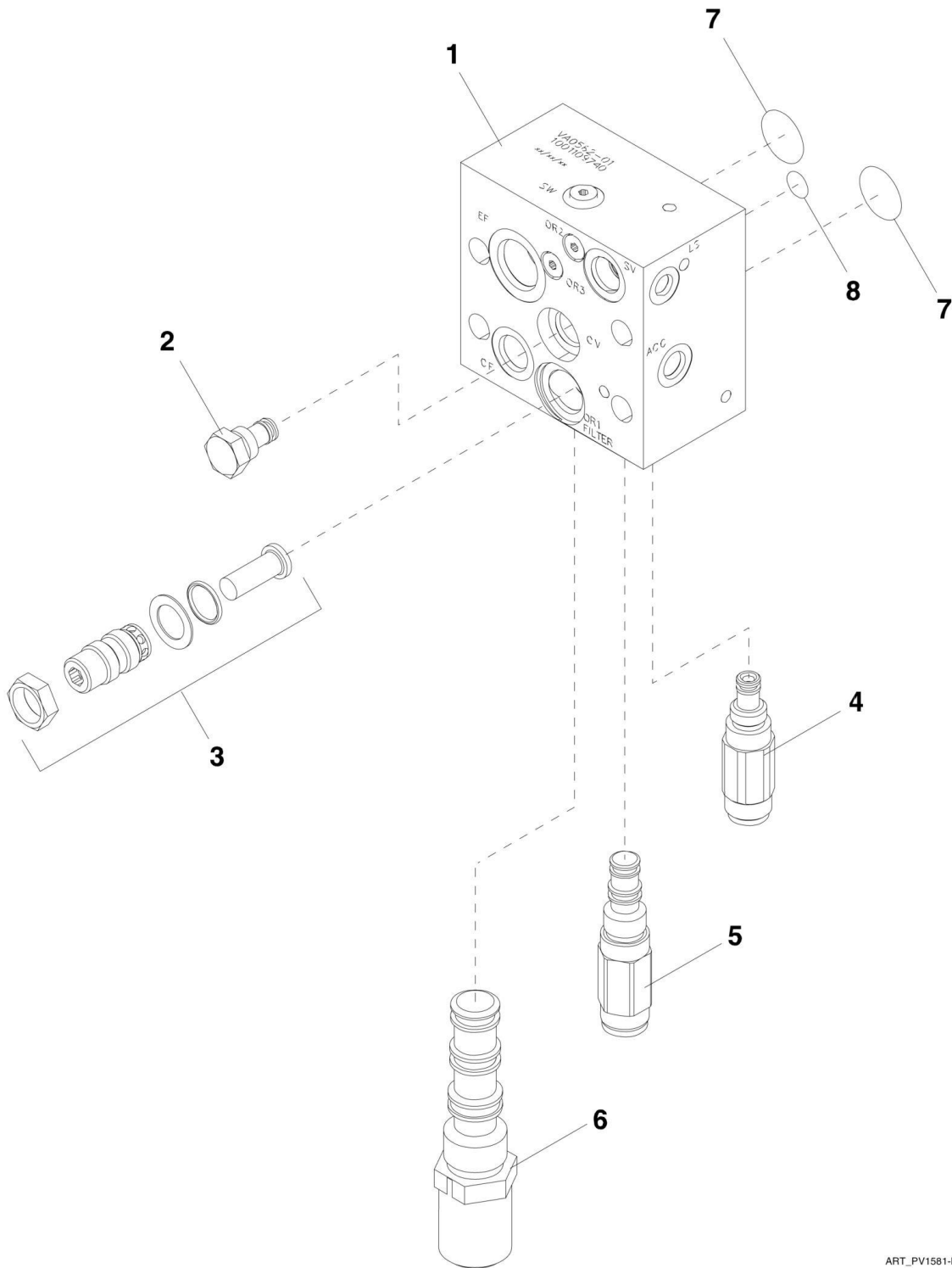
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-13. TANDEM PUMP**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                     | REV |
|------|-------------|-----|-------------------------------------------------|-----|
|      | 10439693    | 1   | TANDEM PUMP, (includes all items)               | E   |
| 1    | 7029185     | 1   | FRONT COVER                                     |     |
| 2    | Kit         | 4   | E-RING SEAL                                     |     |
| 3    | Kit         | 4   | E-RING RETAINER                                 |     |
| 4    | 7029186     | 4   | WEAR PLATE                                      |     |
| 5    | Kit         | 4   | O-RING                                          |     |
| 6    | 7029187     | 8   | BUSHING                                         |     |
| 7    | 7029188     | 1   | DRIVEN GEAR                                     |     |
| 8    | 7029189     | 1   | DRIVEN GEAR, 13 GPM                             |     |
| 9    | 7029190     | 1   | REAR DRIVE GEAR, 13 GPM                         |     |
| 10   | 7029191     | 1   | CENTER SECTION                                  |     |
| 11   | 7029192     | 1   | REAR COVER                                      |     |
| 12   | Kit         | 1   | PLUG                                            |     |
| 13   | 7029202     | 1   | RELIEF VALVE CARTRIDGE                          |     |
| 14   | 7029204     | 1   | PLUG                                            |     |
| 15   | Kit         | 1   | INNER SEAL SHAFT                                |     |
| 16   | Kit         | 1   | OUTER SEAL SHAFT                                |     |
| 17   | 7029193     | 1   | SNAP RING                                       |     |
| 18   | 7029194     | 6   | STUD, 7/16-14X8-1/4                             |     |
| 19   | 7029195     | 6   | LOCKWASHER, 7/16                                |     |
| 20   | 7029196     | 6   | NUT, 7/16-20, GR8                               |     |
| 21   | 7029197     | 1   | CENTER SECTION                                  |     |
| 22   | 7029198     | 1   | PORT SECTION                                    |     |
| 23   | 7029199     | 2   | HEX HD CAPSCREW, 7/16-14X9-3/4                  |     |
| 24   | 7029200     | 1   | DRIVE GEAR                                      |     |
| 25   | 7029201     | 1   | CHECK VALVE CARTRIDGE                           |     |
| 26   | 7029203     | 1   | ORIFICE DISC                                    |     |
| K1   | 8036481     | 1   | SEAL KIT, (includes items 2, 3, 5, 12, 15 & 16) |     |

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FIGURE 9-14. ACCUMULATOR CHARGE VALVE



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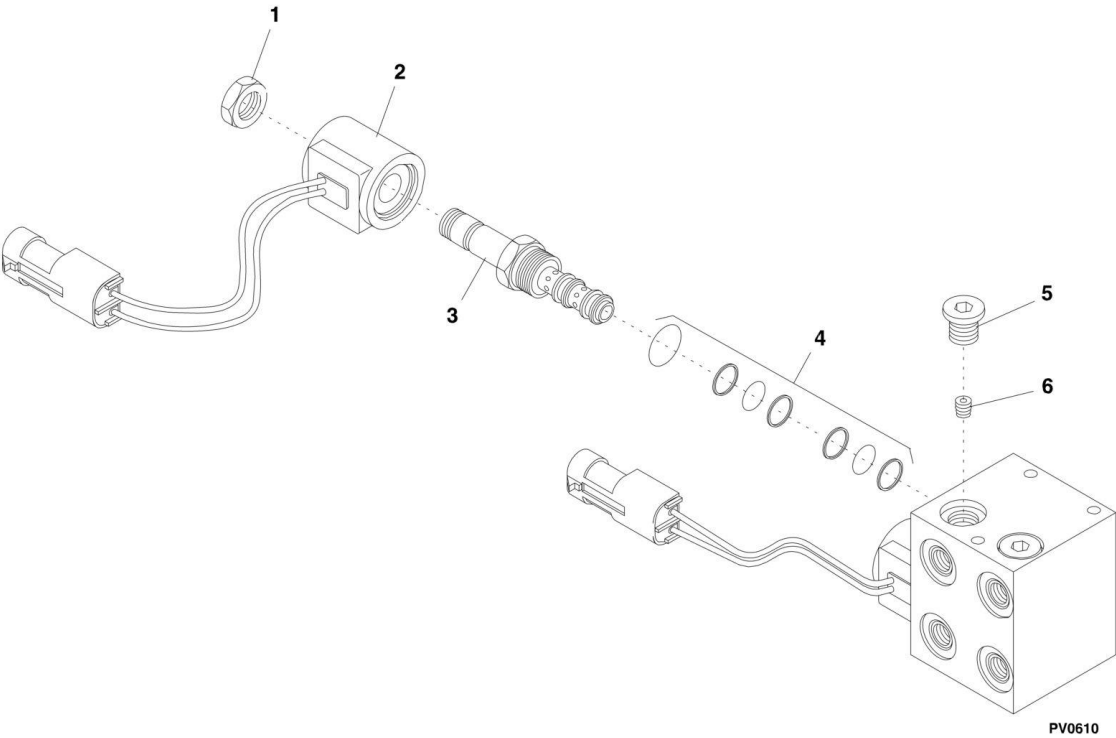
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-14. ACCUMULATOR CHARGE VALVE**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                      | REV |
|------|-------------|-----|----------------------------------------------------------------------------------------------------------------------------------|-----|
|      | 1102027     | 1   | ACCUMULATOR CHARGE VALVE, (includes items 1 thru 6 ) <b>(Prior to SN 0160051140, Excluding 0160050734 and 0160050735)</b>        | B   |
|      | 1001109740  | 1   | ACCUMULATOR CHARGE VALVE, (includes items 1 thru 6 and 9) <b>(SN 0160051140 to Present, Including 0160050734 and 0160050735)</b> | B   |
| 1    | N.S.S.      | 1   | VALVE BODY                                                                                                                       |     |
| 2    | 7022391     | 1   | CHECK VALVE                                                                                                                      |     |
| 2    | 7012998     | 1   | SEAL KIT                                                                                                                         |     |
| 3    | 8036564     | 1   | FILTER ASSY                                                                                                                      |     |
| 4    | 8036566     | 1   | VALVE CARTRIDGE, (UP) <b>(Prior to SN 0160051140, Excluding 0160050734 and 0160050735)</b>                                       |     |
| 4    | 70027321    | 1   | VALVE CARTRIDGE, (UP) <b>(SN 0160051140 to Present, Including 0160050734 and 0160050735)</b>                                     |     |
| 5    | 8036455     | 1   | RELIEF CARTRIDGE, (RV) <b>(Prior to SN 0160051140, Excluding 0160050734 and 0160050735)</b>                                      |     |
| 4    | 7012518     | 1   | SEAL KIT                                                                                                                         |     |
| 5    | 70027322    | 1   | RELIEF CARTRIDGE, (RV) <b>(SN 0160051140 to Present, Including 0160050734 and 0160050735)</b>                                    |     |
| 5    | 7012998     | 1   | SEAL KIT                                                                                                                         |     |
| 6    | 8036460     | 1   | COMPENSATOR, (EC)                                                                                                                |     |
| 6    | 8036493     | 1   | SEAL KIT                                                                                                                         |     |
| 7    | 8630008     | 2   | O-RING                                                                                                                           |     |
| 8    | 8640017     | 1   | O-RING                                                                                                                           |     |
| 9    | 10837580    | 1   | LOAD SHUFFLE VALVE <b>(SN 0160051140 to Present, Including 0160050734 and 0160050735)</b>                                        |     |
| 9    | 7010543     | 1   | SEAL KIT <b>(SN 0160051140 to Present, Including 0160050734 and 0160050735)</b>                                                  |     |

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FIGURE 9-15. 6-PORT CIRCUIT SELECTOR VALVE ASSEMBLY





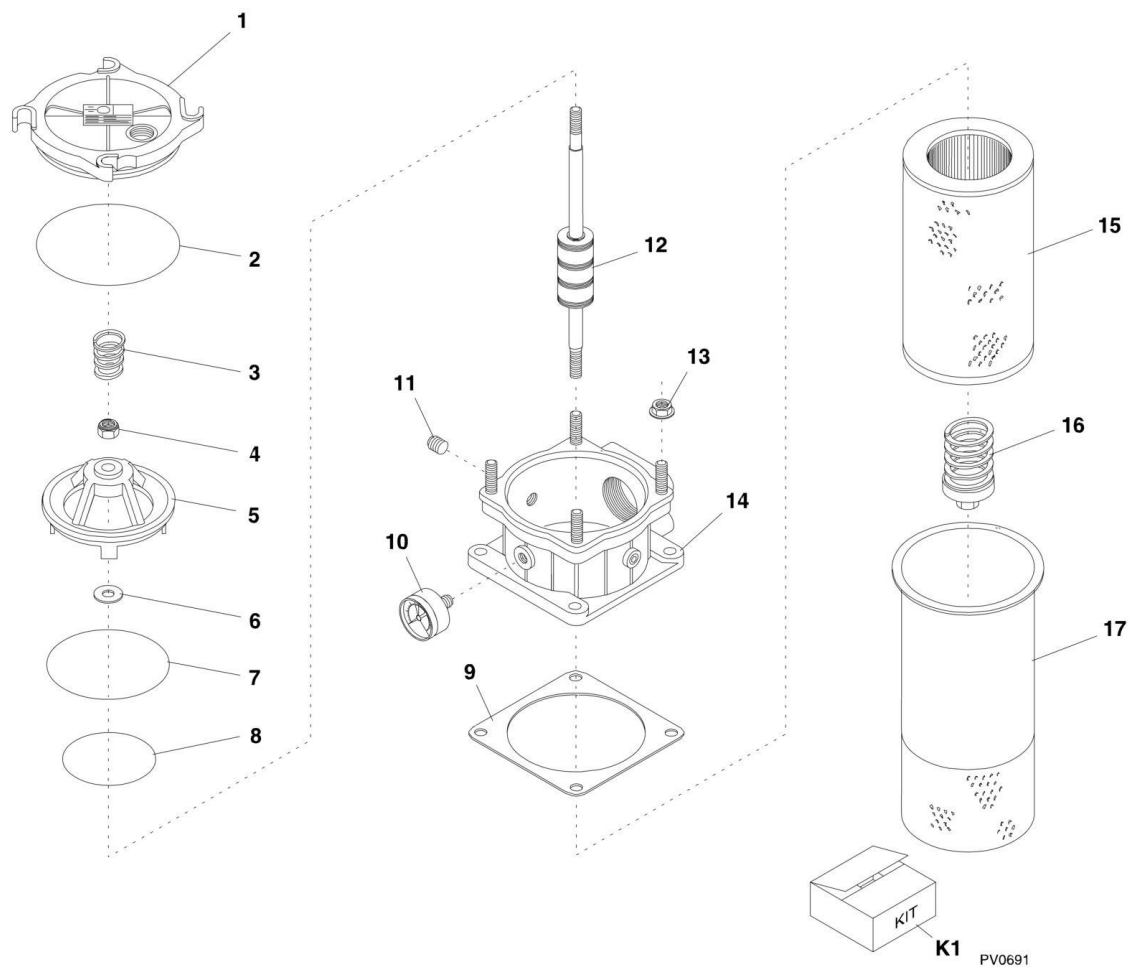
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-15. 6-PORT CIRCUIT SELECTOR VALVE ASSEMBLY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                              | REV |
|------|-------------|-----|----------------------------------------------------------|-----|
|      | 10339076    | 1   | 6-PORT CIRCUIT SELECTOR VALVE ASSY, (includes all items) | AA  |
| 1    | 10740662    | 1   | NUT                                                      |     |
| 2    | 10138329    | 1   | COIL                                                     |     |
| 3    | 10837352    | 1   | SOLENOID VALVE                                           |     |
| 4    | 10837355    | 1   | SEAL KIT                                                 |     |
| 5    | 10727933    | 2   | HOLLOW HEX O-RING PLUG                                   |     |
| 6    | 10837571    | 2   | ORIFICE PLUG                                             |     |

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FIGURE 9-16. HYDRAULIC RETURN LINE FILTER ASSEMBLY



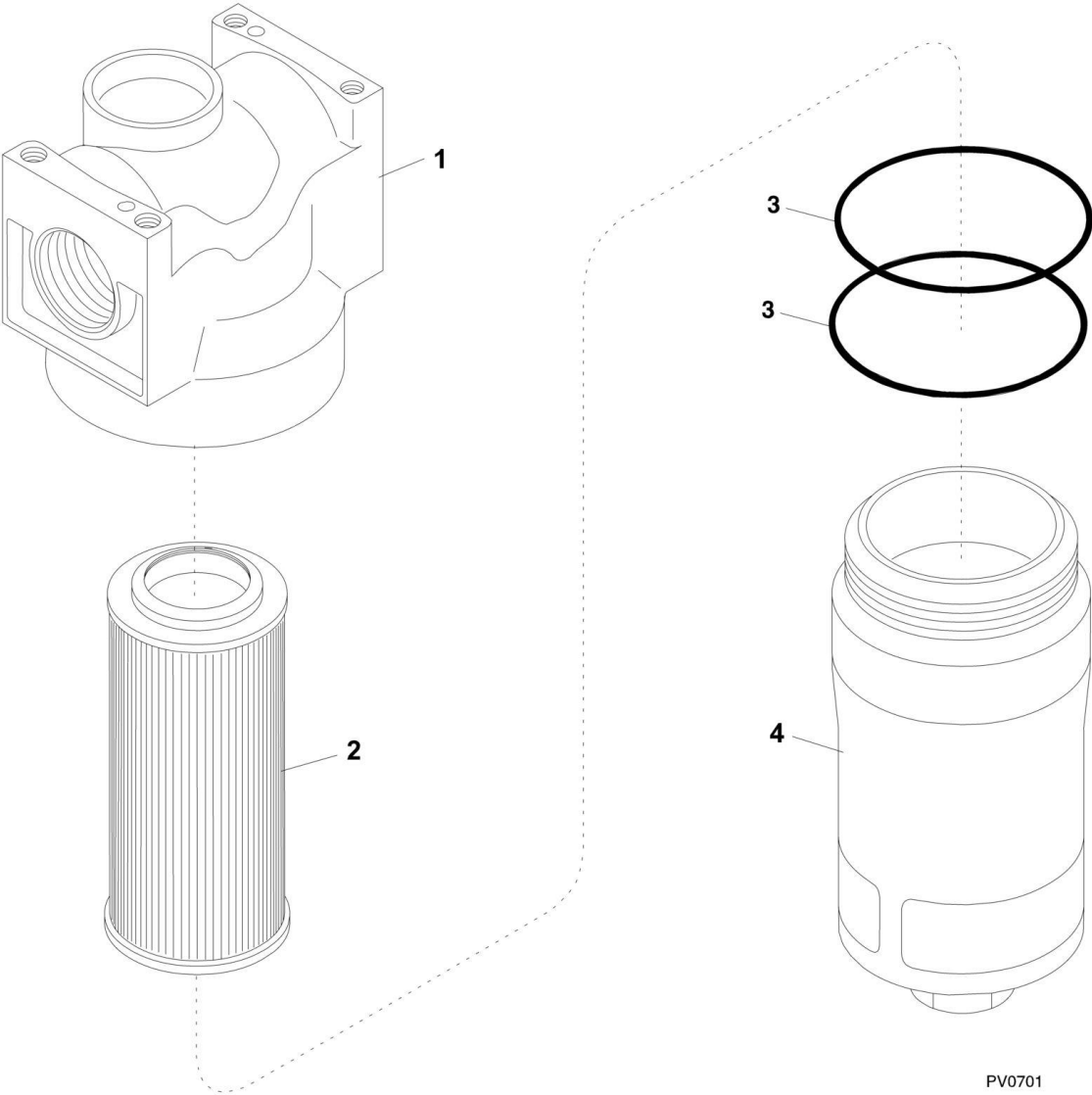
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-16. HYDRAULIC RETURN LINE FILTER ASSEMBLY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                      | REV |
|------|-------------|-----|--------------------------------------------------|-----|
|      | 10265514    | 1   | RETURN FILTER ASSY, (includes all items)         | C   |
| 1    | N.S.S.      | 1   | COVER                                            |     |
| 2    | 10837117    | 1   | O-RING                                           |     |
| 3    | N.S.S.      | 1   | SPRING                                           |     |
| 4    | 10704773    | 1   | HEX LOCKNUT, M8-1.25                             |     |
| 5    | N.S.S.      | 1   | TRESTLE                                          |     |
| 6    | 10704630    | 1   | FLAT WASHER, M8                                  |     |
| 7    | 10837118    | 1   | O-RING                                           |     |
| 8    | 1100778     | 1   | O-RING                                           |     |
| 9    | Kit         | 1   | RUBBER GASKET                                    |     |
| 10   | 10724981    | 1   | INDICATOR GAUGE                                  |     |
| 11   | 2200221     | 2   | HEX SOCKET PLUG                                  |     |
| 12   | N.S.S.      | 1   | TIE ROD                                          |     |
| 13   | N.S.S.      | 4   | FLANGE HEX NUT, M8-1.25                          |     |
| 14   | N.S.S.      | 1   | HEAD                                             |     |
| 15   | 10727810    | 1   | FILTER ELEMENT                                   |     |
| 16   | N.S.S.      | 1   | BYPASS SPRING                                    |     |
| 17   | N.S.S.      | 1   | DIFFUSER                                         |     |
| K1   | 10837120    | 1   | GASKET AND O-RING KIT, (includes items 2, 7 & 9) |     |

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FIGURE 9-17. PRESSURE FILTER ASSEMBLY



PV0701

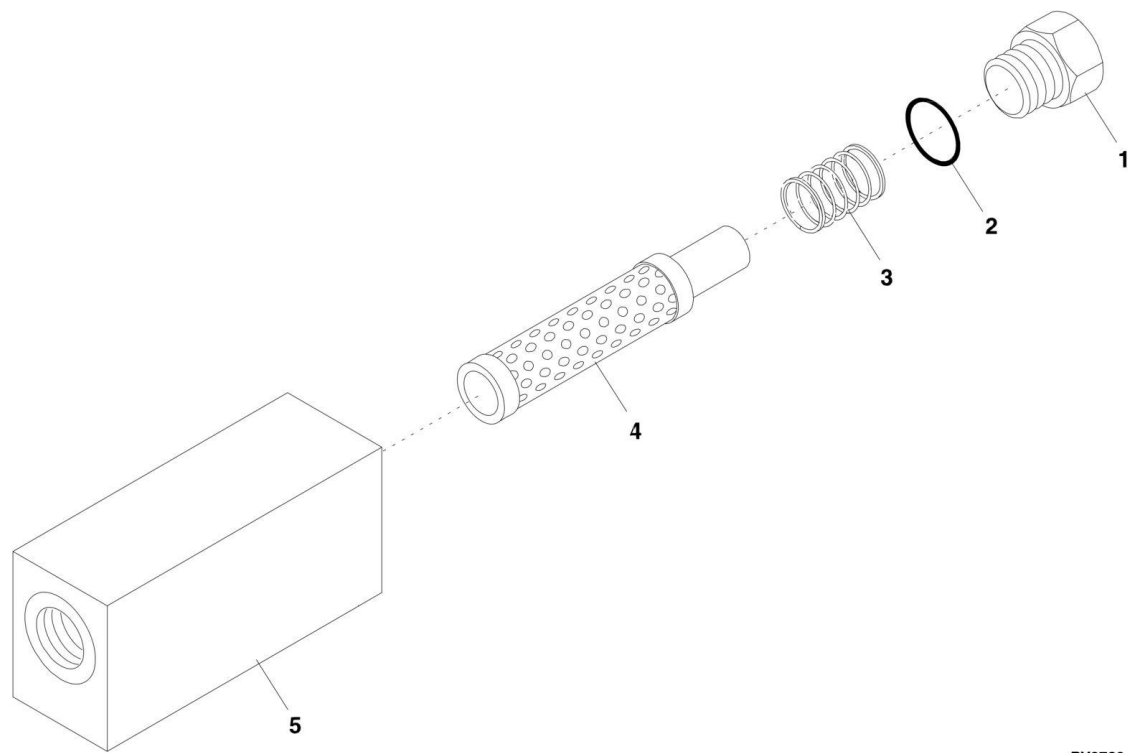
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-17. PRESSURE FILTER ASSEMBLY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                | REV |
|------|-------------|-----|--------------------------------------------|-----|
|      | 10266450    | 1   | PRESSURE FILTER ASSY, (includes all items) | A   |
| 1    | 1100341     | 1   | FILTER HEAD, 12 PITCH THREAD, NO BYPASS    |     |
| 2    | 10866416    | 1   | FILTER                                     |     |
| 3    | 1100343     | 2   | BOWL SEAL                                  |     |
| 4    | N.S.S.      | 1   | BOWL, 12 PITCH THREAD                      |     |

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FIGURE 9-18. INLINE FILTER ASSEMBLY



PV0760

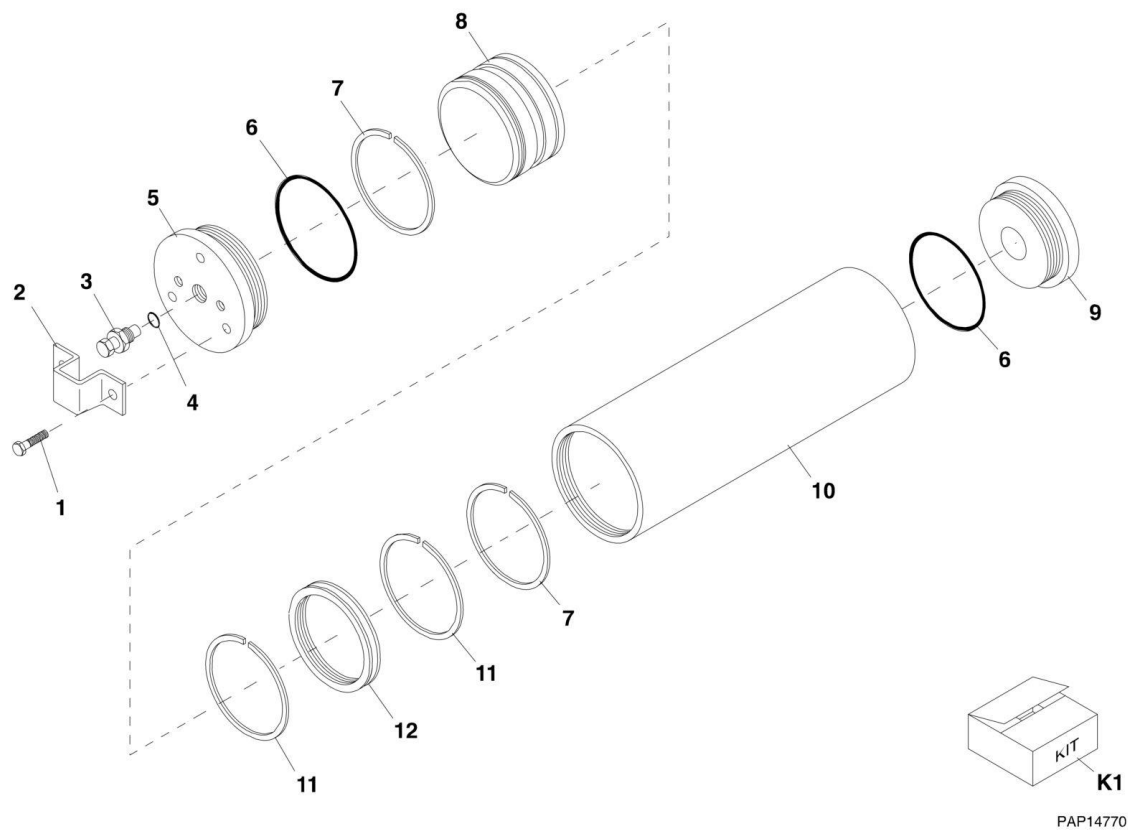
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-18. INLINE FILTER ASSEMBLY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                              | REV |
|------|-------------|-----|------------------------------------------|-----|
|      | 1100963     | 1   | INLINE FILTER ASSY, (includes all items) | AA  |
| 1    | 1100988     | 1   | SPRING GUIDE HEX PLUG                    |     |
| 2    | 10728957    | 1   | O-RING, #12                              |     |
| 3    | 1100989     | 1   | BYPASS SPRING, 50 P.S.I.                 |     |
| 4    | 1100987     | 1   | FILTER ELEMENT                           |     |
| 5    | N.S.S.      | 1   | FILTER BODY                              |     |

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FIGURE 9-19. ACCUMULATOR ASSEMBLY





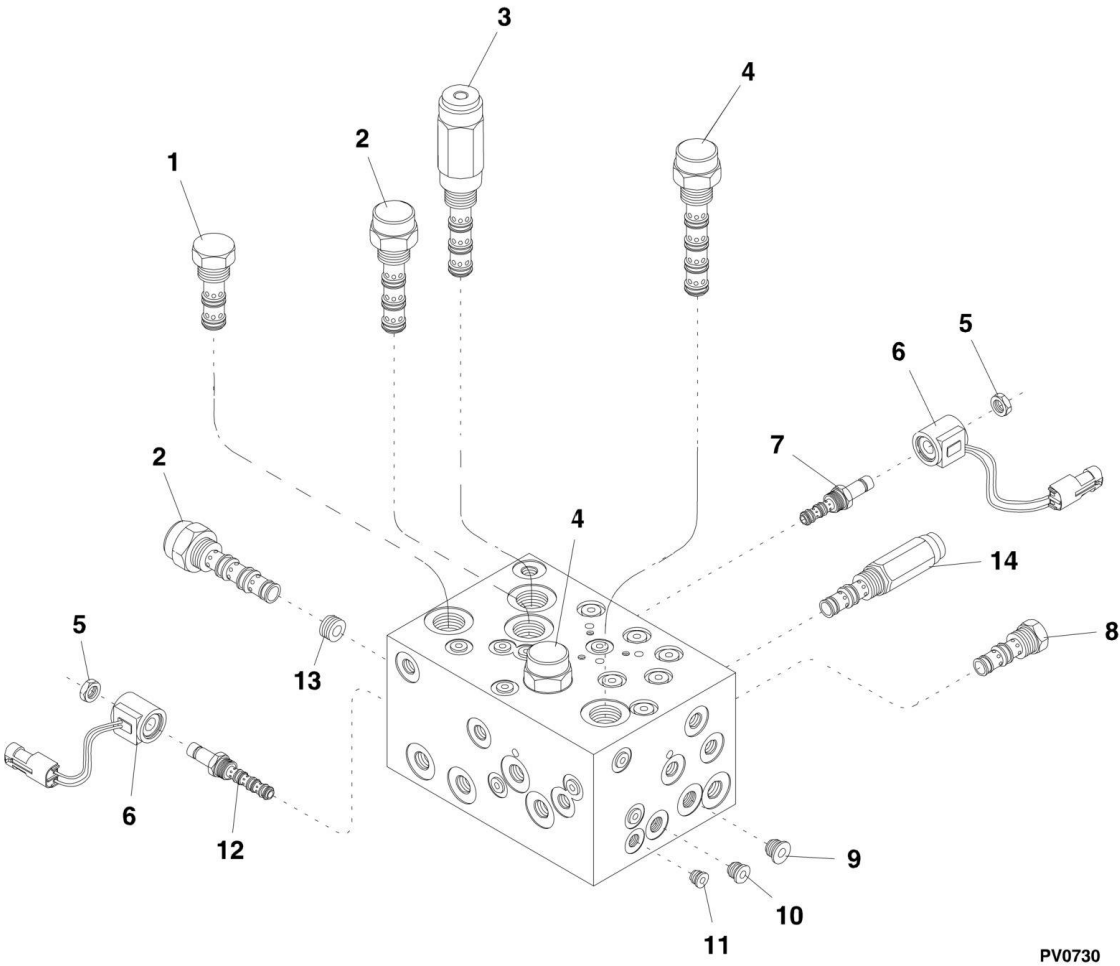
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-19. ACCUMULATOR ASSEMBLY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                             | REV |
|------|-------------|-----|---------------------------------------------------------|-----|
|      | 10731556    | 1   | ACCUMULATOR ASSY, (includes all items)                  | A   |
| 1    | 10700229    | 2   | HEX HD CAPSCREW, 3/8-16X3/4, GR8                        |     |
| 2    | 10791946    | 1   | VALVE GUARD                                             |     |
| 3    | 10791947    | 1   | GAS VALVE                                               |     |
| 4    | Kit         | 1   | O-RING                                                  |     |
| 5    | N.S.S.      | 1   | GAS END CAP                                             |     |
| 6    | Kit         | 2   | O-RING                                                  |     |
| 7    | Kit         | 2   | TEFLON RING                                             |     |
| 8    | 10791952    | 1   | PISTON                                                  |     |
| 9    | N.S.S.      | 1   | END CAP                                                 |     |
| 10   | N.S.S.      | 1   | ACCUMULATOR BODY                                        |     |
| 11   | Kit         | 2   | BACK-UP WASHER                                          |     |
| 12   | Kit         | 1   | O-RING                                                  |     |
| K1   | 10729122    | 1   | ACCUMULATOR SEAL KIT, (includes items 4, 6, 7, 11 & 12) |     |

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FIGURE 9-20. REAR AXLE STABILIZER CONTROL VALVE, (UNDER CAB)



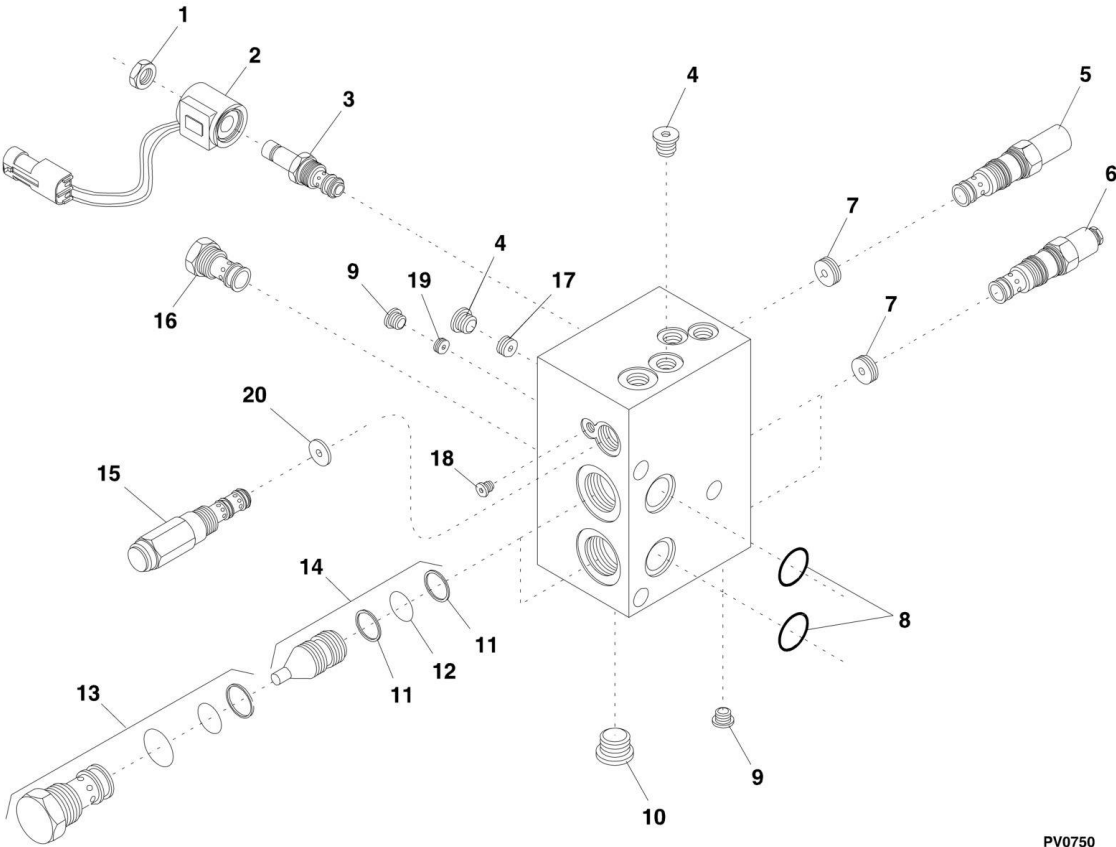
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-20. REAR AXLE STABILIZER CONTROL VALVE, (UNDER CAB)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                              | REV |
|------|-------------|-----|----------------------------------------------------------|-----|
|      | 1102050     | 1   | REAR AXLE STABILIZER CONTROL VALVE, (includes all items) | AA  |
| 1    | 10867163    | 1   | CARTRIDGE VALVE, (PC3)                                   |     |
| 1    | 1100034     | 1   | SEAL KIT                                                 |     |
| 2    | 10867164    | 2   | PILOTED CARTRIDGE VALVE, (3-way), (PD1 & PD4)            |     |
| 2    | 10837005    | 2   | SEAL KIT                                                 |     |
| 3    | 10837575    | 1   | SEQUENCE VALVE, (PS1)                                    |     |
| 3    | 10837011    | 1   | SEAL KIT                                                 |     |
| 4    | 10867162    | 2   | PILOTED CARTRIDGE VALVE, (2-way), (PD2 & PD3)            |     |
| 4    | 1100035     | 2   | SEAL KIT                                                 |     |
| 5    | 10740662    | 2   | NUT                                                      |     |
| 6    | 10138329    | 2   | COIL                                                     |     |
| 7    | 10837352    | 1   | SOLENOID VALVE, (2 position 3-way), (SV2)                |     |
| 7    | 10837355    | 1   | SEAL KIT                                                 |     |
| 8    | 10837580    | 1   | SHUTTLE CARTRIDGE VALVE, (S1)                            |     |
| 8    | 10837014    | 1   | SEAL KIT                                                 |     |
| 9    | 2220885     | 1   | HEX PLUG, #6                                             |     |
| 10   | 10727933    | 3   | HEX PLUG, #4                                             |     |
| 11   | 80384373    | 34  | HEX PLUG, #2                                             |     |
| 12   | 10867165    | 1   | SOLENOID VALVE, (2 position 4-way), (SV1)                |     |
| 12   | 10868902    | 1   | SEAL KIT                                                 |     |
| 13   | 10837010    | 1   | ORIFICE KIT, .040, (PD1)                                 |     |
| 14   | 1102051     | 1   | SEQUENCE VALVE, (PS2)                                    |     |
| 14   | 8036572     | 1   | SEAL KIT                                                 |     |

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FIGURE 9-21. REAR AXLE STABILIZER VALVE, (ON REAR AXLE)



PV0750

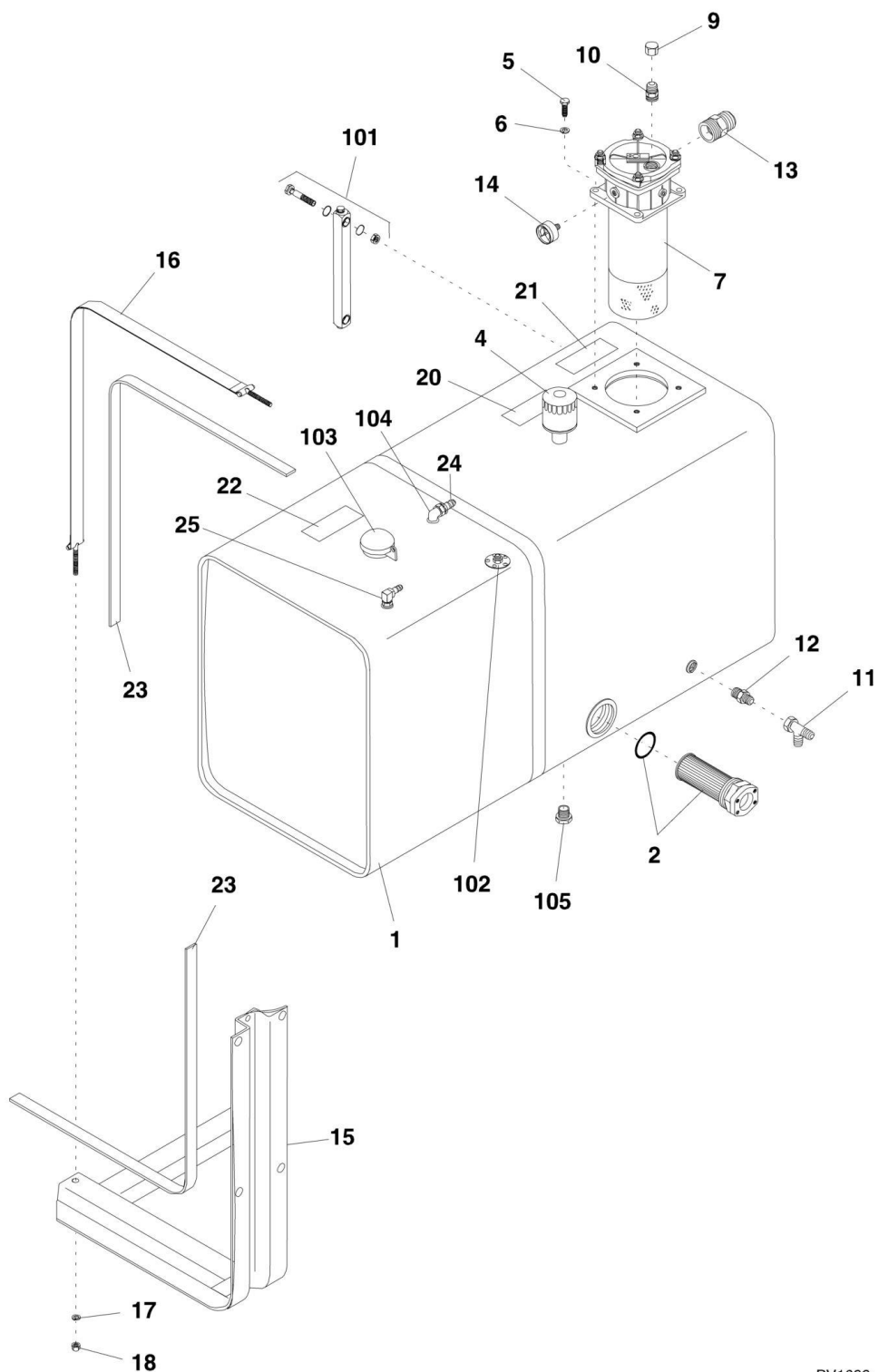
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-21. REAR AXLE STABILIZER VALVE, (ON REAR AXLE)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                        | REV |
|------|-------------|-----|----------------------------------------------------|-----|
|      | 10366194    | 1   | REAR AXLE STABILIZER VALVE, (includes all items)   | D   |
| 1    | 7022390     | 1   | NUT                                                |     |
| 2    | 10138329    | 1   | COIL                                               |     |
| 3    | 10867167    | 1   | SOLENOID VALVE, (SV3)                              |     |
| 3    | 10868086    | 1   | SEAL KIT                                           |     |
| 4    | 2220885     | 2   | HOLLOW HEX O-RING PLUG, #6                         |     |
| 5    | 10867168    | 1   | COUNTER BALANCE VALVE CARTRIDGE, (CB)              |     |
| 5    | 2900770     | 1   | SEAL KIT                                           |     |
| 6    | 10867169    | 2   | PO CHECK VALVE, (PC1 & PC2)                        |     |
| 6    | 2900770     | 2   | SEAL KIT                                           |     |
| 7    | 10867170    | 3   | ORIFICE PLUG, 0.040                                |     |
| 8    | 10710547    | 2   | O-RING                                             |     |
| 9    | 2220883     | 3   | HOLLOW HEX O-RING PLUG, #4                         |     |
| 10   | 2220867     | 1   | HOLLOW HEX O-RING PLUG, #10                        |     |
| 11   | N.S.S.      | 2   | BACK-UP RING                                       |     |
| 12   | N.S.S.      | 1   | O-RING                                             |     |
| 13   | 10837354    | 2   | CHECK VALVE CARTRIDGE, (CV3 & CV4)                 |     |
| 14   | 10837360    | 2   | PISTON ASSY, (includes items 11 & 12), (CV3 & CV4) |     |
| 14   | 7029791     | 1   | SEAL KIT, (includes items 11 & 12)                 |     |
| 15   | 10837353    | 1   | PRESSURE REDUCING VALVE CARTRIDGE, (PR)            |     |
| 15   | 7021632     | 1   | SEAL KIT                                           |     |
| 16   | 10867166    | 2   | CHECK VALVE, (CV1 & CV2)                           |     |
| 16   | 10868086    | 2   | SEAL KIT                                           |     |
| 17   | 10837361    | 1   | ORIFICE PLUG, 0.030                                |     |
| 18   | 2220881     | 1   | HOLLOW HEX O-RING PLUG, #2                         |     |
| 19   | 10867171    | 1   | ORIFICE PLUG, 0.080                                |     |
| 20   | 1102025     | 1   | ORIFICE DISC, 0.130                                |     |

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**FIGURE 9-22. FUEL/HYDRAULIC TANK ASSY**



PV1632

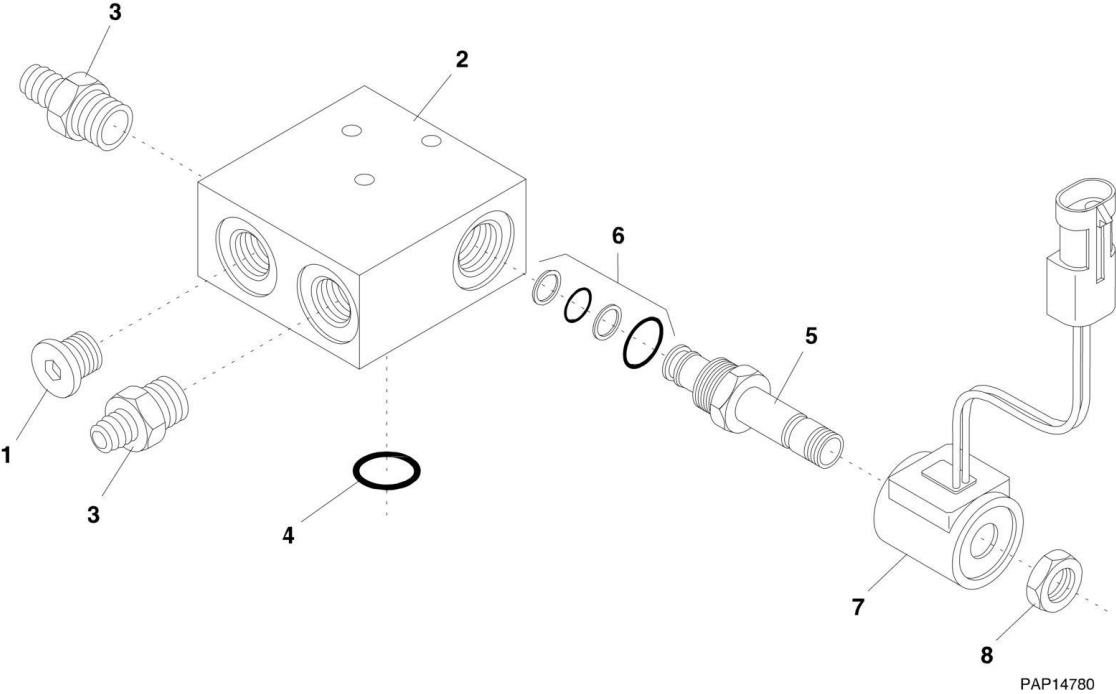
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-22. FUEL/HYDRAULIC TANK ASSY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                  | REV |
|------|-------------|-----|----------------------------------------------------------------------------------------------|-----|
|      | 10439785    | 1   | FUEL/HYDRAULIC TANK ASSY, (includes items 1 thru 25)                                         | K   |
| 1    | 10438944    | 1   | FUEL/HYDRAULIC TANK, (includes items 101 thru 105)                                           | AB  |
| 2    | 10238912    | 1   | HYDRAULIC OIL STRAINER, (includes o-ring)                                                    | AB  |
| 2    | 1101888     | 1   | O-RING                                                                                       |     |
| 4    | 10139022    | 1   | BREATHER FILTER                                                                              |     |
| 5    | 10700204    | 4   | HEX HD CAPSCREW, 3/8-16X1, (torque to 7.2 lb-ft)                                             |     |
| 6    | 10701310    | 4   | LOCKWASHER, 3/8                                                                              |     |
| 7    |             | Ref | HYDRAULIC RETURN LINE FILTER ASSY, (See HYDRAULIC RETURN LINE FILTER ASSEMBLY for Breakdown) |     |
| 9    | 2220518     | 1   | HEX CAP                                                                                      |     |
| 10   | 2220451     | 1   | CONNECTOR, (includes o-ring)                                                                 |     |
| 11   | 2220385     | 1   | SWIVEL TEE                                                                                   |     |
| 12   | 10723848    | 1   | CHECK VALVE                                                                                  |     |
| 13   | 10728819    | 1   | CONNECTOR, (includes o-ring)                                                                 |     |
| 14   |             | Ref | PRESSURE GAUGE, (See HYDRAULIC RETURN LINE FILTER ASSEMBLY for Breakdown)                    |     |
| 15   | 10267141    | 1   | TANK SUPPORT BRACKET                                                                         |     |
| 16   | 10236181    | 2   | TANK STRAP                                                                                   |     |
| 17   | 10701312    | 4   | LOCKWASHER, 1/2                                                                              |     |
| 18   | 10701510    | 4   | HEX NUT, 1/2-13                                                                              |     |
| 20   | 10139619    | 1   | HYDRAULIC BREATHER DECAL                                                                     |     |
| 21   | 10120988    | 1   | HYDRAULIC OIL ONLY DECAL                                                                     |     |
| 22   | 10120989    | 1   | DIESEL FUEL ONLY DECAL                                                                       |     |
| 23   | 10167139    | 2   | FUEL/HYDRAULIC TANK BELTING                                                                  |     |
| 24   | 10716673    | 1   | STRAIGHT FITTING (Prior to SN 0160040407, Excluding 0160037824 and 0160038521)               |     |
| 24   | 2220767     | 1   | STRAIGHT FITTING (SN 0160040413 to Present, Including 0160037824 and 0160038521)             |     |
| 25   | 10728873    | 1   | ADAPTER, 90                                                                                  |     |
| 101  | 10727809    | 1   | SIGHT GAUGE                                                                                  |     |
| 102  | 10729317    | 1   | FUEL SENDER                                                                                  |     |
| 103  | 10712182    | 1   | FUEL CAP                                                                                     |     |
| 104  | 10730418    | 1   | WITHDRAWAL TUBE                                                                              |     |
| 105  | 10715446    | 2   | HEX PLUG, (includes o-ring)                                                                  |     |

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FIGURE 9-23. BOOM EXTEND LOCKOUT VALVE ASSEMBLY





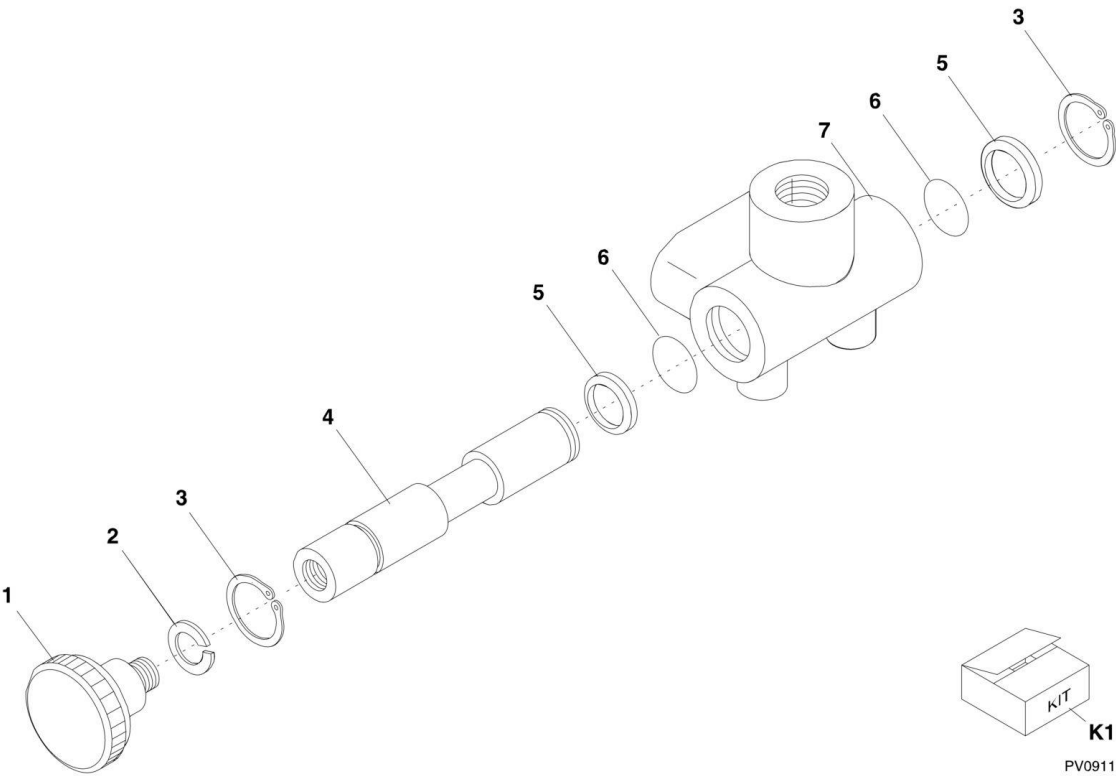
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-23. BOOM EXTEND LOCKOUT VALVE ASSEMBLY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                          | REV |
|------|-------------|-----|------------------------------------------------------|-----|
|      | 10139949    | 1   | BOOM EXTEND LOCKOUT VALVE ASSY, (includes all items) | AA  |
| 1    | 10727936    | 1   | HOLLOW HEX O-RING PLUG                               |     |
| 2    |             | Ref | BODY                                                 |     |
| 3    | 10719414    | 2   | CHECK VALVE                                          |     |
| 4    | 10837684    | 1   | O-RING                                               |     |
| 5    | 70002955    | 1   | SOLENOID VALVE                                       |     |
| 6    | 10837246    | 1   | SEAL KIT                                             |     |
| 7    | 10138329    | 1   | COIL                                                 |     |
| 8    | 10740662    | 1   | NUT                                                  |     |

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FIGURE 9-24. PARK BRAKE VALVE ASSEMBLY



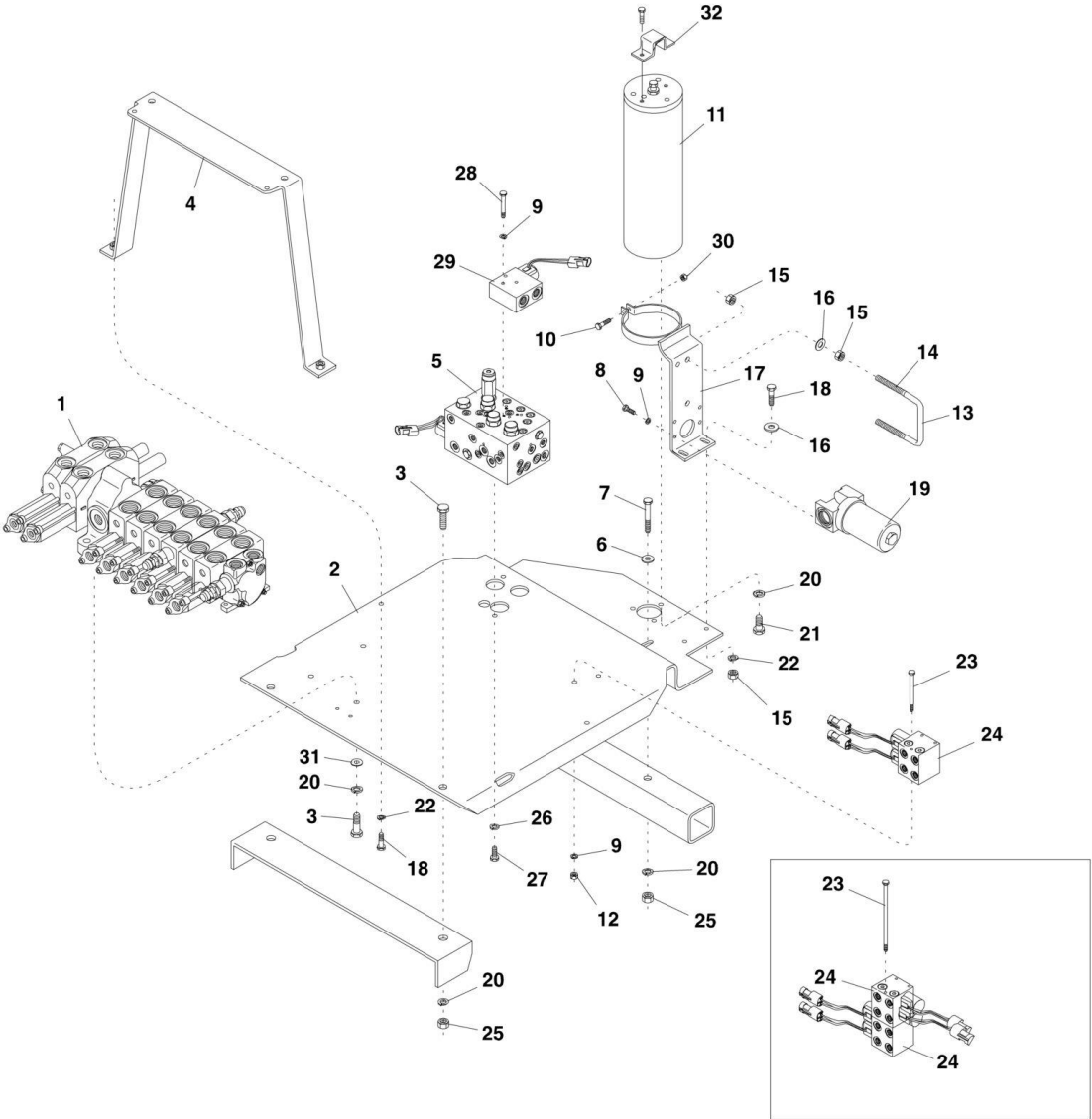
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**FIGURE 9-24. PARK BRAKE VALVE ASSEMBLY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                 | REV |
|------|-------------|-----|---------------------------------------------|-----|
|      | 10740135    | 1   | PARK BRAKE VALVE ASSY, (includes all items) |     |
| 1    | 10791764    | 1   | CONTROL KNOB                                |     |
| 2    | 10701310    | 1   | LOCKWASHER, 3/8                             |     |
| 3    | 10727980    | 2   | SNAP RING                                   |     |
| 4    | N.S.S.      | 1   | VALVE SPOOL                                 |     |
| 5    | 10791765    | 2   | BACK-UP RING, (teflon)                      |     |
| 6    | Kit         | 2   | O-RING                                      |     |
| 7    |             | Ref | VALVE HOUSING                               |     |
| K1   | 10740467    | 1   | SEAL KIT, (includes items 3, 5 & 6)         |     |

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FIGURE 9-25. VALVE PLATE COMPONENTS ASSEMBLY



PAP14790

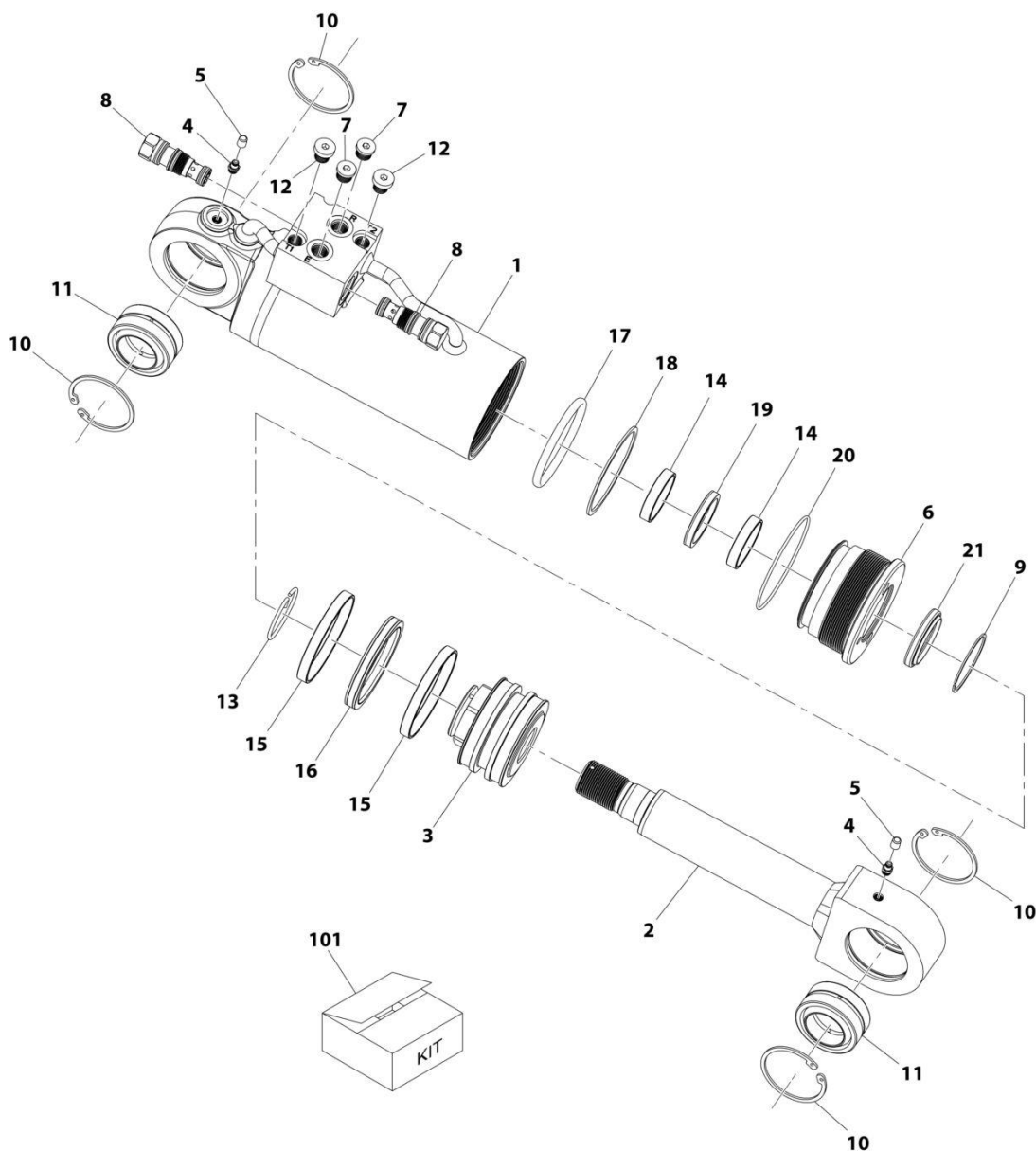
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**FIGURE 9-25. VALVE PLATE COMPONENTS ASSEMBLY**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                | REV |
|------|-------------|-----|----------------------------------------------------------------------------------------------------------------------------|-----|
| 1    |             | Ref | 8 SECTION HYDRAULIC CONTROL VALVE ASSY, (Single Aux),<br>(See HYDRAULIC CONTROL VALVE ASSEMBLY for Breakdown)              |     |
| 1    |             | Ref | 9 SECTION HYDRAULIC CONTROL VALVE ASSY, (Dual Aux),<br>(See HYDRAULIC CONTROL VALVE ASSEMBLY for Breakdown)                |     |
| 2    | 10438545    | 1   | VALVE PLATE                                                                                                                |     |
| 3    | 10700403    | 5   | HEX HD CAPSCREW, 1/2-13X1-1/4, GR5, (torque to 52-58 lb-ft)                                                                |     |
| 4    | 10238557    | 1   | FRONT HOSE TRAY SUPPORT BRACKET                                                                                            |     |
| 5    |             | Ref | REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See<br>REAR AXLE STABILIZER CONTROL VALVE, (UNDER CAB) for<br>Breakdown) |     |
| 6    | 10701279    | 1   | FLAT WASHER, 1/2                                                                                                           |     |
| 7    | 10700411    | 1   | HEX HD CAPSCREW, 1/2-13X3-1/4, GR5                                                                                         |     |
| 8    | 10700001    | 4   | HEX HD CAPSCREW, 1/4-20X1/2, GR5                                                                                           |     |
| 9    | 10701308    | 9   | LOCKWASHER, 1/4                                                                                                            |     |
| 10   | 10700006    | 1   | HEX HD CAPSCREW, 1/4-20X1-1/4, GR5                                                                                         |     |
| 11   |             | Ref | ACCUMULATOR, (See ACCUMULATOR ASSEMBLY for<br>Breakdown)                                                                   |     |
| 12   | 10701506    | 2   | HEX NUT, 1/4-20                                                                                                            |     |
| 13   | 10720902    | AR  | LOOM, 3/8x1                                                                                                                |     |
| 14   | 10139360    | 1   | HOSE GUIDE, (includes 1 each items 15 & 16)                                                                                |     |
| 15   | 10701508    | 4   | HEX NUT, 3/8-16                                                                                                            |     |
| 16   | 10701404    | 2   | FLAT WASHER, 3/8                                                                                                           |     |
| 17   | 10238549    | 1   | ACCUMULATOR AND PRESSURE FILTER MOUNTING<br>BRACKET                                                                        |     |
| 18   | 10700204    | 4   | HEX HD CAPSCREW, 3/8-16X1, GR5                                                                                             |     |
| 19   |             | Ref | PRESSURE FILTER, (See PRESSURE FILTER ASSEMBLY for<br>Breakdown)                                                           |     |
| 20   | 10701312    | 9   | LOCKWASHER, 1/2                                                                                                            |     |
| 21   | 10700452    | 3   | HEX HD CAPSCREW, 1/2-20X1, GR5                                                                                             |     |
| 22   | 10701310    | 4   | LOCKWASHER, 3/8                                                                                                            |     |
| 23   | 10700015    | 2   | HEX HD CAPSCREW, 1/4-20X3-1/2, GR5, (Single Aux)                                                                           |     |
| 23   | 10700023    | 2   | HEX HD CAPSCREW, 1/4-20X7, GR5, (Dual Aux)                                                                                 |     |
| 24   |             | Ref | CIRCUIT SELECTOR VALVE, (See 6-PORT CIRCUIT SELECTOR<br>VALVE ASSEMBLY for Breakdown)                                      |     |
| 25   | 10701510    | 3   | HEX NUT, 1/2-13                                                                                                            |     |
| 26   | 10701309    | 2   | LOCKWASHER, 5/16                                                                                                           |     |
| 27   | 10700103    | 2   | HEX HD CAPSCREW, 5/16-18X7/8, GR5                                                                                          |     |
| 28   | 10700009    | 3   | HEX HD CAPSCREW, 1/4-20X2, GR5                                                                                             |     |
| 29   |             | Ref | BOOM EXTEND LOCKOUT VALVE, (See BOOM EXTEND<br>LOCKOUT VALVE ASSEMBLY for Breakdown)                                       |     |
| 30   | 10705000    | 1   | HEX LOCKNUT, 1/4-20                                                                                                        |     |
| 31   | 10701406    | 3   | FLAT WASHER, 1/2                                                                                                           |     |
| 32   | 10717593    | 2   | HOSE CLAMP                                                                                                                 |     |

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FIGURE 9-26. SIDE TILT CARRIAGE CYLINDER



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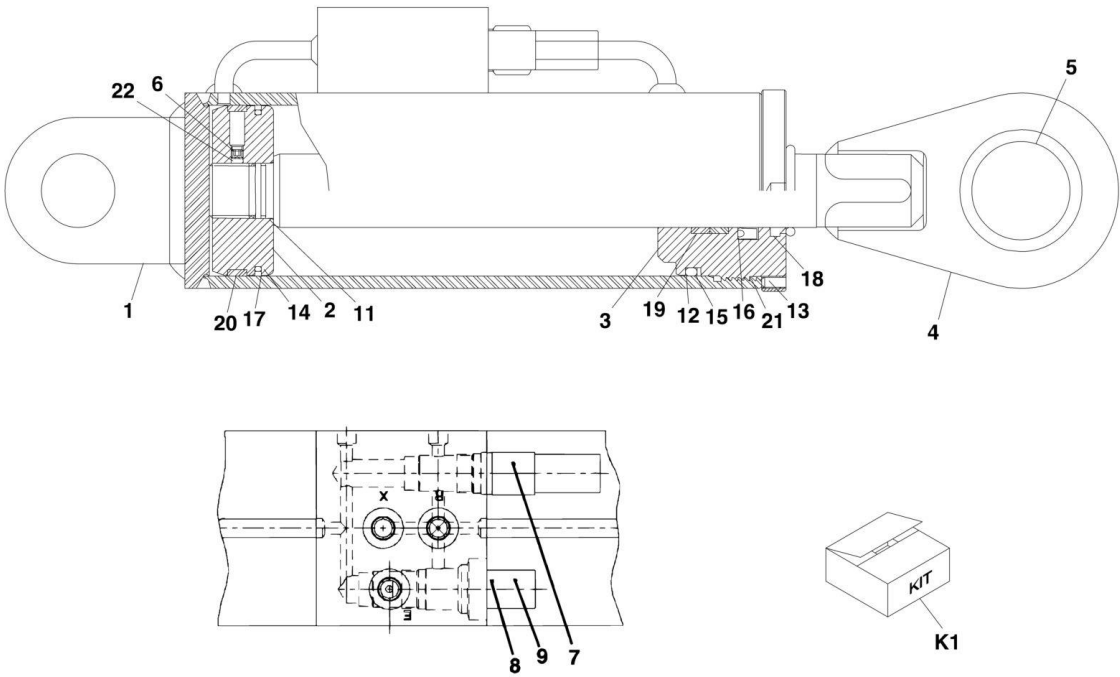
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**FIGURE 9-26. SIDE TILT CARRIAGE CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                   | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------------------|-----|
|      | 1001090134  | Ref | SIDE TILT CARRIAGE CYLINDER, (no longer available, use 1001163414 for replacement or items below for service) | C   |
|      | 1001163414  | Ref | SIDE TILT CARRIAGE CYLINDER, (includes all items)                                                             | A   |
| 1    | 70026056    | 1   | BARREL                                                                                                        |     |
| 2    | 70026057    | 1   | ROD                                                                                                           |     |
| 3    | 70026058    | 1   | SCREWED PISTON HEAD, 90MM                                                                                     |     |
| 4    | 70025606    | 2   | GREASE NIPPLE                                                                                                 |     |
| 5    | 70024020    | 2   | GREASER PROTECTOR                                                                                             |     |
| 6    | 70003849    | 1   | GLAND                                                                                                         |     |
| 7    | 70025959    | 2   | BLANKING SCREW                                                                                                |     |
| 8    | 70026059    | 2   | P/O CHECK VALVE                                                                                               |     |
| 9    | 70002219    | 1   | INTERNAL SNAP RING                                                                                            |     |
| 10   | 70026060    | 4   | INTERNAL SNAP RING                                                                                            |     |
| 11   | 70026061    | 2   | SPHERICAL BEARING                                                                                             |     |
| 12   | 70024262    | 2   | BLANKING SCREW                                                                                                |     |
| 13   | 70002224    | 1   | LOCKING RING                                                                                                  |     |
| 14   | Kit         | 2   | ROD BEARING RING                                                                                              |     |
| 15   | Kit         | 2   | PISTON BEARING RING                                                                                           |     |
| 16   | Kit         | 1   | PISTON SEAL                                                                                                   |     |
| 17   | Kit         | 1   | O-RING                                                                                                        |     |
| 18   | Kit         | 1   | BACK UP RING                                                                                                  |     |
| 19   | Kit         | 1   | ROD SEAL                                                                                                      |     |
| 20   | Kit         | 1   | O-RING                                                                                                        |     |
| 21   | Kit         | 1   | WIPER SEAL                                                                                                    |     |
| 101  | 70026062    | 1   | SEAL KIT, (includes items 14 thru 21)                                                                         |     |

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FIGURE 9-27. 72IN 90, SWING CARRIAGE CYLINDER



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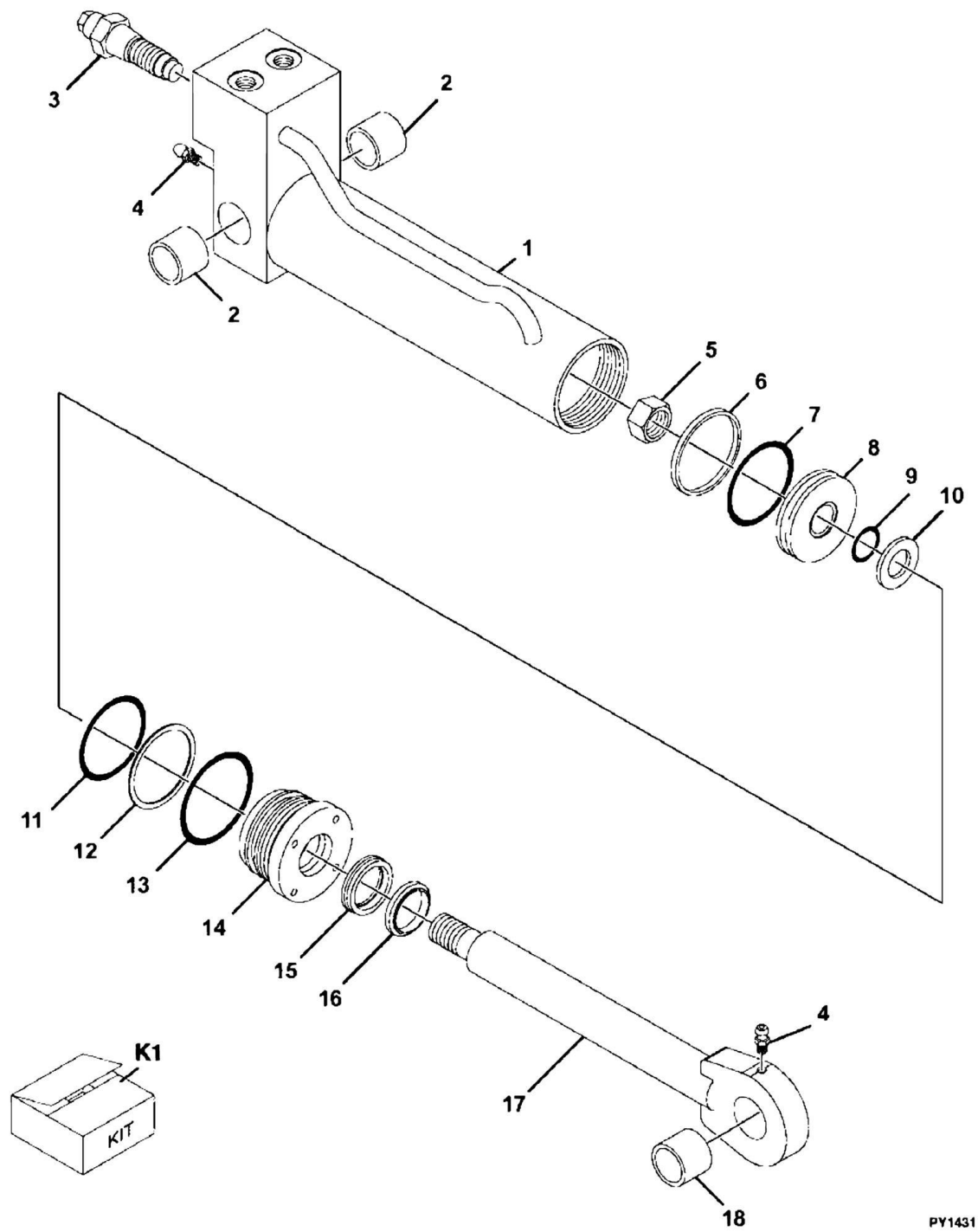
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-27. 72IN 90, SWING CARRIAGE CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                         | REV |
|------|-------------|-----|-----------------------------------------------------|-----|
|      | 1001103182  | 1   | SWING CARRIAGE CYLINDER, (includes items 1 thru 22) | B   |
| 1    | 70022044    | 1   | TUBE ASSY                                           |     |
| 2    | 8035863     | 1   | PISTON                                              |     |
| 3    | 8035862     | 1   | HEAD GLAND                                          |     |
| 4    | 70022045    | 1   | ROD ASSY                                            |     |
| 5    | 70022046    | 1   | BEARING                                             |     |
| 6    | 8035536     | 2   | SET SCREW, 5/16-18X1/2                              |     |
| 7    | 70020428    | 1   | RELIEF VALVE, (preset to 2000psi)                   |     |
| 7    | 7024574     | 1   | SEAL KIT                                            |     |
| 8    | 8033786     | 1   | COUNTER BALANCE VALVE, (preset to 3000psi)          |     |
| 8    | 8205655     | 1   | SEAL KIT                                            |     |
| 9    | 70021812    | 1   | TAMPERPROOF CAP                                     |     |
| 11   | Kit         | 1   | O-RING                                              |     |
| 12   | Kit         | 1   | O-RING                                              |     |
| 13   | Kit         | 1   | O-RING                                              |     |
| 14   | Kit         | 1   | SQUARE RING                                         |     |
| 15   | Kit         | 1   | BACKUP RING                                         |     |
| 16   | Kit         | 1   | SEAL                                                |     |
| 17   | Kit         | 1   | PISTON SEAL                                         |     |
| 18   | Kit         | 1   | ROD WIPER                                           |     |
| 19   | Kit         | 2   | WEARBAND                                            |     |
| 20   | Kit         | 1   | WEARBAND                                            |     |
| 21   | Kit         | 2   | INSERT                                              |     |
| 22   | Kit         | 2   | INSERT                                              |     |
| K1   | 2915023     | 1   | SEAL KIT, (includes items 11 thru 22)               |     |

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FIGURE 9-28. GRAPPLE BUCKET CYLINDER



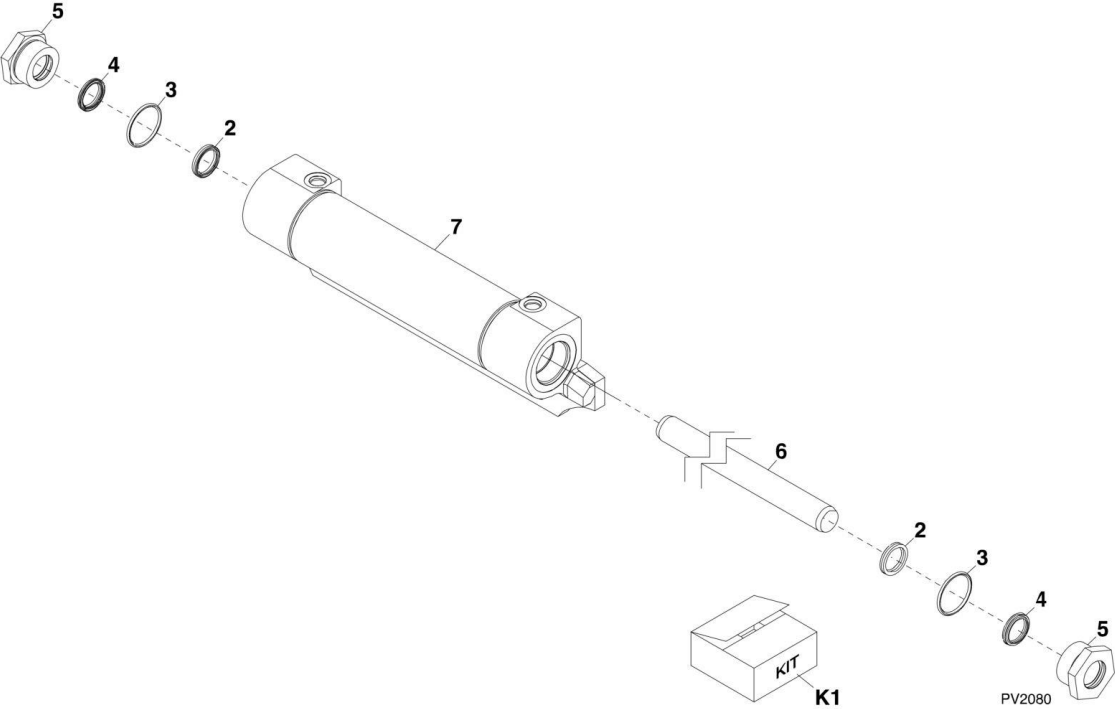
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-28. GRAPPLE BUCKET CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                             | REV |
|------|-------------|-----|---------------------------------------------------------|-----|
|      | 70021393    | 1   | GRAPPLE BUCKET CYLINDER, (includes all items)           |     |
| 1    | 70021465    | 1   | CYLINDER TUBE                                           |     |
| 2    | 70021448    | 2   | BUSHING                                                 |     |
| 3    | 70021464    | 2   | VALVE CARTRIDGE                                         |     |
| 4    | 90554045    | 2   | GREASE FITTING                                          |     |
| 5    | 70021440    | 1   | HEX NUT                                                 |     |
| 6    | Kit         | 1   | PISTON RING                                             |     |
| 7    | Kit         | 1   | O-RING                                                  |     |
| 8    | 70021451    | 1   | PISTON                                                  |     |
| 9    | Kit         | 1   | O-RING                                                  |     |
| 10   | 70021444    | 1   | WASHER                                                  |     |
| 11   | Kit         | 1   | O-RING                                                  |     |
| 12   | Kit         | 1   | BACK-UP WASHER                                          |     |
| 13   | Kit         | 1   | O-RING                                                  |     |
| 14   | 70021446    | 1   | CYLINDER GLAND                                          |     |
| 15   | Kit         | 1   | POLY-PAK SEAL                                           |     |
| 16   | Kit         | 1   | ROD WIPER                                               |     |
| 17   | 70021466    | 1   | PISTON ROD                                              |     |
| 18   | 70021447    | 1   | BUSHING                                                 |     |
| K1   | 70021452    | 1   | SEAL KIT, (includes items 6, 7, 9, 11 thru 13, 15 & 16) |     |

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FIGURE 9-29. 50IN SIDE SHIFT CARRIAGE CYLINDER (SN 0160037900 to Present, Including 0160037855)



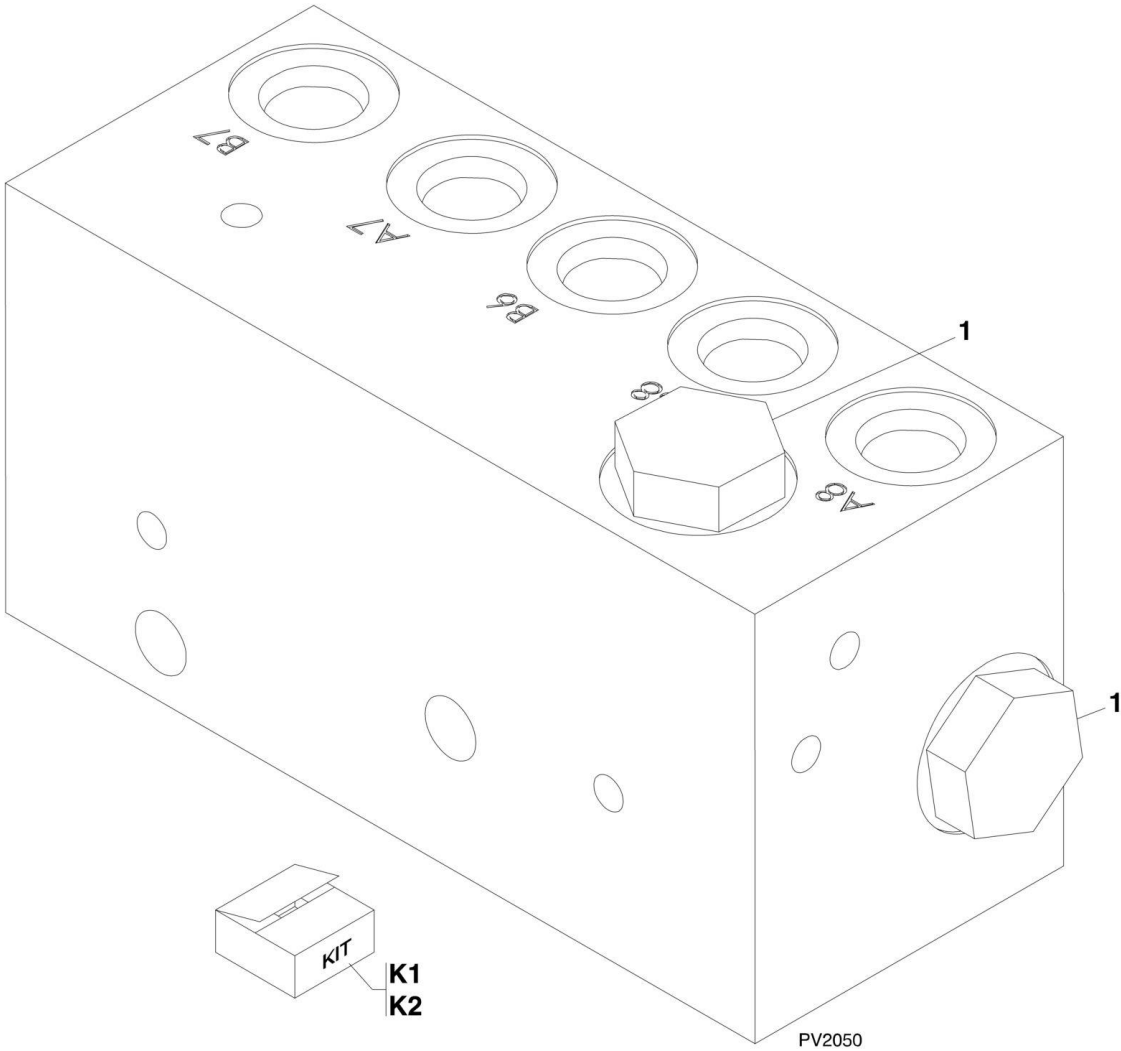
## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-29. 50IN SIDE SHIFT CARRIAGE CYLINDER (SN 0160037900 to Present, Including 0160037855)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                              | REV |
|------|-------------|-----|----------------------------------------------------------|-----|
|      | 70024539    | 1   | 50 IN SIDE SHIFT CARRIAGE CYLINDER, (includes all items) | B   |
| 2    | Kit         | 2   | ROD SEAL                                                 |     |
| 3    | 70024547    | 2   | O-RING                                                   |     |
| 4    | Kit         | 2   | ROD WIPER SEAL                                           |     |
| 5    | 70024548    | 2   | RETAINER SEAL                                            |     |
| 6    | N.S.S.      | 1   | ROD                                                      |     |
| 7    | N.S.S.      | 1   | BARREL                                                   |     |
| K1   | 70024549    | 1   | SEAL KIT, (includes items 2 & 4)                         |     |

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FIGURE 9-30. SHUTTLE VALVE (SN 0160048698 to Present)



## SECTION 9 - HYDRAULIC COMPONENTS

**FIGURE 9-30. SHUTTLE VALVE (SN 0160048698 to Present)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                       | REV |
|------|-------------|-----|-----------------------------------|-----|
|      | 1001142244  | 1   | SHUTTLE VALVE, (includes items 1) | B   |
| 1    | N.S.S.      | 3   | PLUG                              |     |
| K1   | 10837580    | 1   | CARTRIDGE KIT                     |     |
| K2   | 10837580    | 1   | SEAL KIT                          |     |

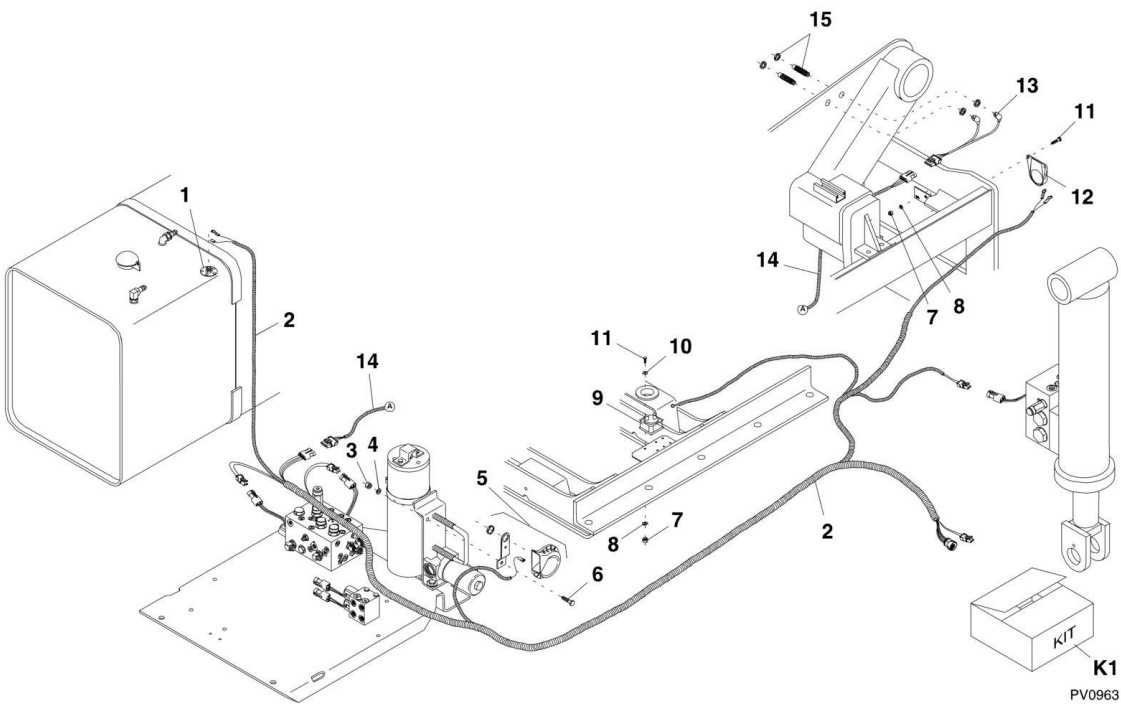




**SECTION 10 - ELECTRICAL**

SECTION 10 - ELECTRICAL

FIGURE 10-1. FRAME HARNESS INSTALLATION (SN 0160009654 through 0160017144, Including 0160008714)



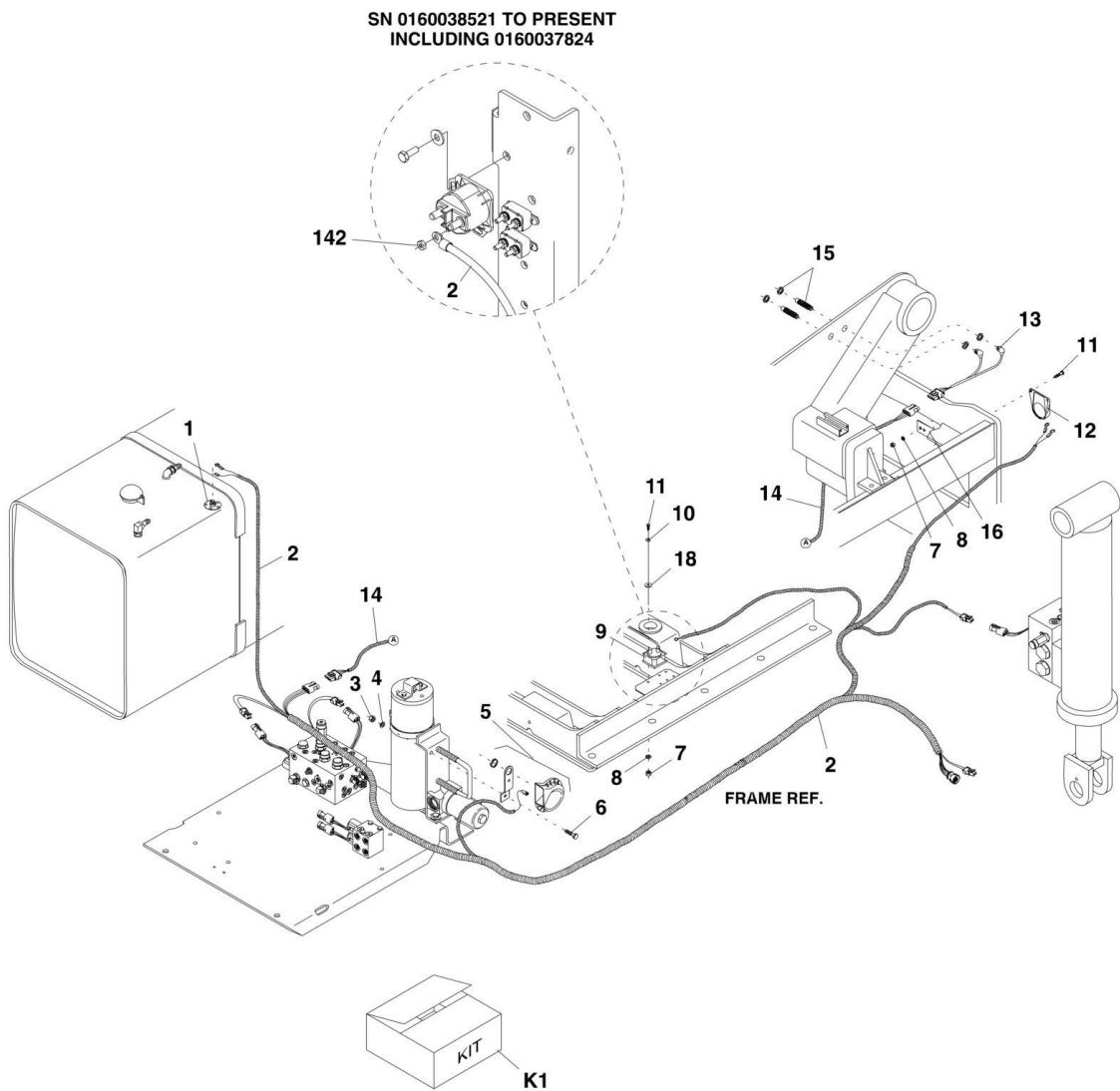
## SECTION 10 - ELECTRICAL

**FIGURE 10-1. FRAME HARNESS INSTALLATION (SN 0160009654 through 0160017144, Including 0160008714)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                | REV |
|------|-------------|-----|----------------------------------------------------------------------------|-----|
| 1    |             | Ref | FUEL/HYDRAULIC TANK ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| 2    | 10468666    | 1   | INTERMEDIATE CIRCUIT BOARD WIRE HARNESS                                    |     |
| 3    | 10701507    | 1   | HEX NUT, 5/16-18                                                           |     |
| 4    | 10701309    | 1   | LOCKWASHER, 5/16                                                           |     |
| 5    | 10268663    | 1   | HORN                                                                       |     |
| 6    | 10700102    | 1   | HEX HD CAPSCREW, 5/16-18X3/4                                               |     |
| 7    | 10701506    | 4   | HEX NUT, 1/4-20                                                            |     |
| 8    | 10701308    | 4   | LOCKWASHER, 1/4                                                            |     |
| 9    | 10167789    | 1   | STARTER RELAY                                                              |     |
| 10   | 10701275    | 2   | HARD WASHER                                                                |     |
| 11   | 10700003    | 4   | HEX HD CAPSCREW, 1/4-20X3/4                                                |     |
| 12   | N.S.S.      | NLA | BACK-UP ALARM, (no longer available, use Kit K1 for replacement)           |     |
| 13   | 1101857     | 1   | PROXIMITY SWITCH HARNESS                                                   |     |
| 14   | 10165923    | 1   | PROXIMITY SWITCH WIRE HARNESS                                              |     |
| 15   | 1101780     | 2   | PROXIMITY SWITCH                                                           |     |
| K1   | 2915184     | 1   | BACK-UP ALARM SERVICE KIT                                                  |     |

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FIGURE 10-2. FRAME HARNESS INSTALLATION (SN 0160017145 to Present)



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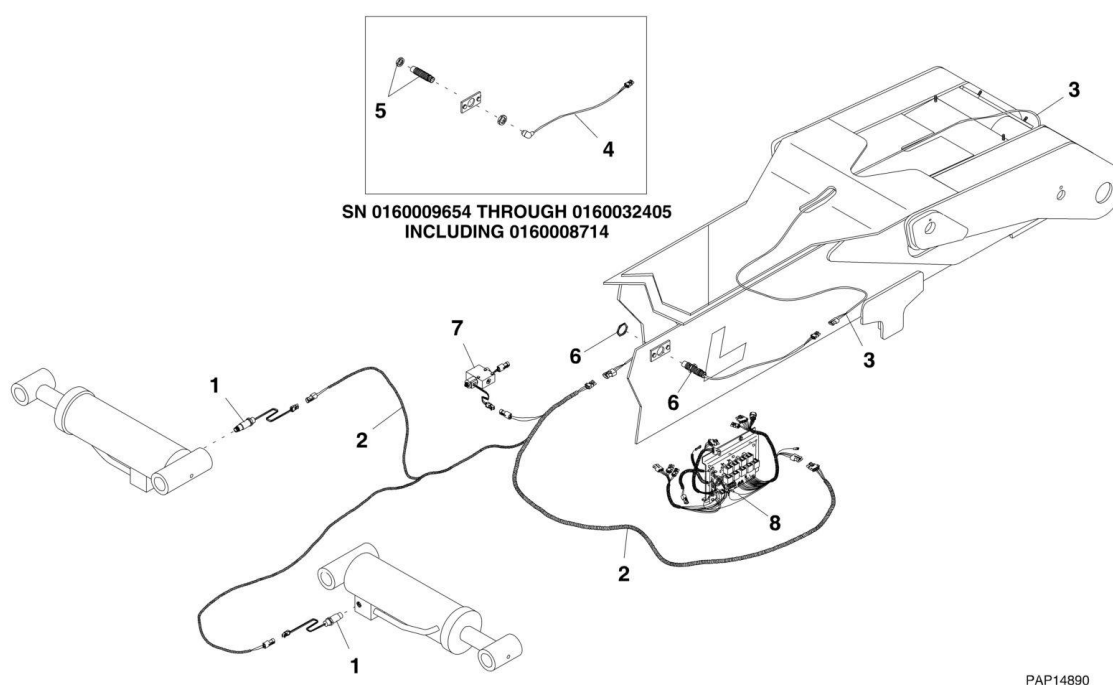
## SECTION 10 - ELECTRICAL

**FIGURE 10-2. FRAME HARNESS INSTALLATION (SN 0160017145 to Present)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                      | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------------------------------|-----|
| 1    |             | Ref | FUEL/HYDRAULIC TANK ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                                       |     |
| 2    | 4923407     | 1   | INTERMEDIATE CIRCUIT BOARD WIRE HARNESS ( <b>Prior to SN 0160040407, Excluding 0160037824 and 0160038521</b> )   | C   |
| 2    | 1001114326  | 1   | INTERMEDIATE CIRCUIT BOARD WIRE HARNESS ( <b>SN 0160040413 to Present, Including 0160037824 and 0160038521</b> ) | B   |
| 3    | 10701507    | 1   | HEX NUT, 5/16-18                                                                                                 |     |
| 4    | 10701309    | 1   | LOCKWASHER, 5/16                                                                                                 |     |
| 5    | 10268663    | 1   | HORN                                                                                                             |     |
| 6    | 10700102    | 1   | HEX HD CAPSCREW, 5/16-18X3/4                                                                                     |     |
| 7    | 8305624     | 4   | HEX NUT, 1/4-20                                                                                                  |     |
| 8    | 4711400     | 4   | WASHER, 1/4                                                                                                      |     |
| 9    | 10167789    | 1   | STARTER RELAY                                                                                                    |     |
| 10   | 10701275    | 2   | HARD WASHER                                                                                                      |     |
| 11   | 0641406     | 4   | HEX HD CAPSCREW, 1/4-20X3/4, GR5                                                                                 |     |
| 12   | 8270621     | 1   | BACK-UP ALARM                                                                                                    |     |
| 13   | 1101857     | 1   | PROXIMITY SWITCH HARNESS ( <b>SN 0160017145 through 0160032363</b> )                                             | B   |
| 13   | 1001091643  | 1   | PROXIMITY SWITCH HARNESS ( <b>SN 0160032364 to Present</b> )                                                     | A   |
| 14   | 10165923    | 1   | PROXIMITY SWITCH WIRE HARNESS                                                                                    |     |
| 15   | 1101780     | 2   | PROXIMITY SWITCH ( <b>SN 0160017145 through 0160032363</b> )                                                     |     |
| 16   | 3576433     | 1   | MOUNTING BAR                                                                                                     |     |
| 18   | 4791400     | 2   | STAR WASHER, 1/4                                                                                                 |     |
| 19   | 103382003   | 1   | GROUND CABLE, (cab to frame ground), (not shown)                                                                 |     |
| 20   | 10701310    | 2   | LOCKWASHER, 3/8, (not shown)                                                                                     |     |
| 21   | 10701558    | 2   | JAM NUT, 3/8-16, (not shown)                                                                                     |     |
| 22   | 10701402    | 4   | WASHER, 1/4, (not shown)                                                                                         |     |
| 142  |             | Ref | HEX NUT, #10-24, GR5, (See ENGINE ELECTRICAL GROUP for Breakdown)                                                |     |
| K1   | 2902550     | 1   | CONNECTOR REPLACEMENT KIT                                                                                        |     |

## SECTION 10 - ELECTRICAL

### FIGURE 10-3. OUTRIGGER/BOOM EXTEND LOCKOUT HARNESS INSTALLATION



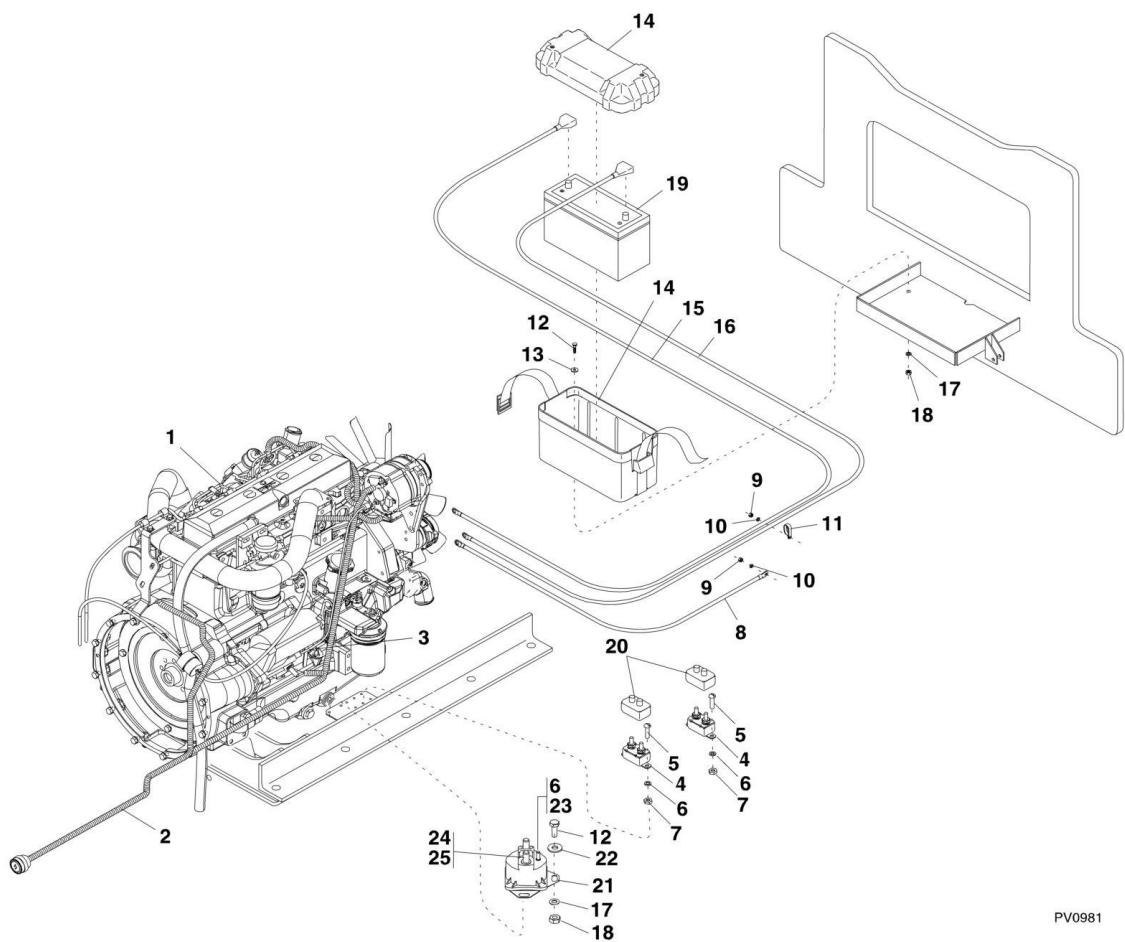
## SECTION 10 - ELECTRICAL

**FIGURE 10-3. OUTRIGGER/BOOM EXTEND LOCKOUT HARNESS INSTALLATION**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                      | REV |
|------|-------------|-----|--------------------------------------------------------------------------------------------------|-----|
| 1    | 10168441    | 2   | DIFFERENTIAL PRESSURE SWITCH                                                                     |     |
| 2    | 10366809    | 1   | LOWER BOOM EXTEND WIRE HARNESS                                                                   |     |
| 3    | 10139351    | 1   | PROXIMITY SWITCH BOOM EXTEND WIRE HARNESS                                                        |     |
| 4    | 10138231    | 1   | PROXIMITY SWITCH CONNECTION WIRE <b>(SN 0160009654 through 0160032405, Including 0160008714)</b> |     |
| 5    | 1101780     | 1   | PROXIMITY SWITCH <b>(SN 0160009654 through 0160032405, Including 0160008714)</b>                 |     |
| 6    | 1001091371  | 1   | PROXIMITY SWITCH HARNESS <b>(SN 0160032406 to Present)</b>                                       |     |
| 7    |             | Ref | BOOM EXTEND LOCKOUT VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                      |     |
| 8    |             | Ref | ELECTRICAL MOUNTING PANEL, (See FUSES, RELAYS AND BUZZER MOUNTING PANEL for Breakdown)           |     |

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FIGURE 10-4. ENGINE ELECTRICAL GROUP (Prior to SN 0160040407, Excluding 0160037824 and 0160038521)



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## SECTION 10 - ELECTRICAL

**FIGURE 10-4. ENGINE ELECTRICAL GROUP (Prior to SN 0160040407, Excluding 0160037824 and 0160038521)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                      | REV |
|------|-------------|-----|----------------------------------------------------------------------------------|-----|
| 1    |             | Ref | JOHN DEERE ENGINE, 115HP, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown) |     |
| 2    | 4923232     | 1   | ENGINE ECU HARNESS                                                               |     |
| 3    | 4923247     | 1   | DIODE HARNESS                                                                    |     |
| 4    | 10729694    | 2   | CIRCUIT BREAKER                                                                  |     |
| 5    | 10702057    | 4   | RD HD MACHINE SCREW, #10-24X3/4, GR5                                             |     |
| 6    | 4761000     | 5   | WASHER, #10                                                                      |     |
| 7    | 10701504    | 4   | HEX NUT, #10-24                                                                  |     |
| 8    | 103382004   | 1   | BATTERY GROUND CABLE                                                             |     |
| 9    | 10701508    | 3   | HEX NUT, 3/8-16                                                                  |     |
| 10   | 10701310    | 3   | LOCKWASHER, 3/8                                                                  |     |
| 11   | 10837368    | 2   | BATTERY CABLE CLAMP                                                              |     |
| 12   | 10700003    | 8   | HEX HD CAPSCREW, 1/4-20X3/4                                                      |     |
| 13   | 10701402    | 6   | FLAT WASHER, 1/4                                                                 |     |
| 14   | 10266935    | 1   | BATTERY BOX, (includes cover and strap)                                          |     |
| 15   | 10135646    | 1   | POSITIVE BATTERY CABLE                                                           |     |
| 16   | 10165724    | 1   | NEGATIVE BATTERY CABLE                                                           |     |
| 17   | 10701308    | 8   | LOCKWASHER, 1/4                                                                  |     |
| 18   | 10701506    | 8   | HEX NUT, 1/4-20                                                                  |     |
| 19   | 10740075    | 1   | BATTERY, 12 VOLT, BCI GROUP 31, 925 CCA                                          |     |
| 20   | 10867571    | 2   | CIRCUIT BREAKER COVER                                                            |     |
| 21   | 10167789    | 1   | STARTER RELAY                                                                    |     |
| 22   | 10701275    | 2   | HARD WASHER                                                                      |     |
| 23   | 10701528    | 1   | HEX NUT, #10-32                                                                  |     |
| 24   | 10701309    | 2   | LOCKWASHER, 5/16                                                                 |     |
| 25   | 10701507    | 2   | HEX NUT, 5/16-18                                                                 |     |

## SECTION 10 - ELECTRICAL

**FIGURE 10-5. ENGINE ELECTRICAL GROUP (SN 0160040413 to Present, Including 0160037824 and 0160038521)**



## SECTION 10 - ELECTRICAL

**FIGURE 10-5. ENGINE ELECTRICAL GROUP (SN 0160040413 to Present, Including 0160037824 and 0160038521)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                        | REV |
|------|-------------|-----|------------------------------------------------------------------------------------|-----|
| 1    | 0641410     | 2   | HEX HD CAPSCREW, 1/4-20X1-1/4, GR5                                                 |     |
| 3    | 3271405     | 2   | HEX LOCKNUT, 1/4-20, GR8                                                           |     |
| 4    | 3271601     | 1   | HEX NUT, 3/8-16                                                                    |     |
| 5    | 3311508     | 4   | HEX NUT, 5/16-18                                                                   |     |
| 6    | 4711400     | 12  | FLAT WASHER, 1/4                                                                   |     |
| 11   | 1001096404  | 2   | ANGLE INDICATOR SPACER                                                             |     |
| 12   | 1001155219  | 2   | BATTERY, 12 VOLT, BCI GROUP 31, 750 CCA                                            |     |
| 25   | 0761212     | 1   | HEX HD CAPSCREW, 12X25mm, GR8.8, (fully threaded)                                  |     |
| 26   | 3271501     | 2   | HEX NUT, 5/16-18, GR8                                                              |     |
| 30   | 8225122     | 1   | RELAY                                                                              |     |
| 31   | 8229260     | 1   | FUSE HOLDER                                                                        |     |
| 33   | 8303545     | 4   | HEX HD CAPSCREW, 6X1X14mm                                                          |     |
| 36   | 8307219     | 4   | WASHER, 6mm                                                                        |     |
| 38   | 10167789    | 1   | STARTER RELAY                                                                      |     |
| 40   | 10700003    | 2   | HEX HD CAPSCREW, 1/4-20X3/4, GR5                                                   |     |
| 41   | 10701275    | 2   | WASHER, 5/16X47/64X1/16                                                            |     |
| 42   | 10701504    | 1   | HEX NUT, #10-24, GR5                                                               |     |
| 45   | 10729694    | 2   | CIRCUIT BREAKER (Prior to SN 0160044252)                                           |     |
| 46   | 83191010    | 1   | LOCKWASHER, 12mm                                                                   |     |
| 54   | 3911010     | 5   | ROUND HD CAPSCREW, 10-24X5/8 (Prior to SN 0160044252)                              |     |
| 54   | 3911010     | 1   | ROUND HD CAPSCREW, 10-24X5/8 (SN 0160044252 to Present)                            |     |
| 55   | 1001095336  | 1   | FUSE, 150 A, 32 VDC, MGEA BOLT                                                     |     |
| 58   | 4761600     | 1   | LOCKWASHER, 3/8                                                                    |     |
| 61   |             | Ref | INTERMEDIATE CIRCUIT BOARD HARNESS, (See FRAME HARNESS INSTALLATION for Breakdown) |     |
| 63   | 1001115107  | 1   | ELECTRIC PANEL PLATE                                                               |     |
| 64   | 1001119682  | 1   | BATTERY COVER WELD                                                                 |     |
| 66   | 8305047     | 1   | HEX NUT, 6X1.0mm                                                                   |     |
| 67   | 8310687     | 1   | TOOTHED LOCKWASHER, 6mm                                                            |     |
| 68   | 0791504     | 2   | SCREW, 5/16-18X1/2                                                                 |     |
| 69   | 4711000     | 1   | WASHER, 10mm                                                                       |     |
| 70   | 2540020     | 5   | INSULATION GROMMET                                                                 |     |
| 71   | 2560141     | 2   | THUMB SCREW                                                                        |     |
| 72   | 0761012     | 1   | HEX HD CAPSCREW, M10X25, GR 8.8                                                    |     |
| 73   | 83191013    | 1   | WASHER, 10mm                                                                       |     |
| 74   | 8769122     | 1   | TWIN CLAMP SET                                                                     |     |
| 75   | 8769123     | 1   | TWIN COVER PLATE                                                                   |     |
| 76   | 0641511     | 1   | HEX HD CAPSCREW, 5/16-18X1-3/8, GR 5                                               |     |
| 77   | 1001119681  | 1   | BATTERY COVER                                                                      |     |
| 78   | 1001118480  | 4   | BATTERY HOLD DOWN STUD                                                             |     |
| 79   | 91401281    | 2   | BATTERY HOLD DOWN BRACKET                                                          |     |
| 81   | 0791404     | 2   | SCREW, 1/4-20X1/2                                                                  |     |
| 82   | 1001127038  | 1   | POSITIVE BATTERY CABLE, (includes items 201 & 203)                                 | C   |
| 83   | 1001127039  | 1   | NEGATIVE JUMPER BATTERY CABLE, (includes items 201 & 202)                          | C   |
| 84   | 1001147885  | 1   | NEGATIVE BATTERY CABLE, (includes items 201, 202 & 204)                            | A   |
| 85   | 1001147884  | 1   | POSITIVE BATTERY CABLE, (includes items 201, 203 & 204)                            | A   |
| 86   | 1001128164  | 1   | STARTER RELAY CABLE                                                                |     |
| 86   | 8220114     | 2   | TERMINAL RING, 5/16, 6 AWG                                                         |     |
| 87   | 1001128165  | 1   | FUSE POWER CABLE                                                                   |     |

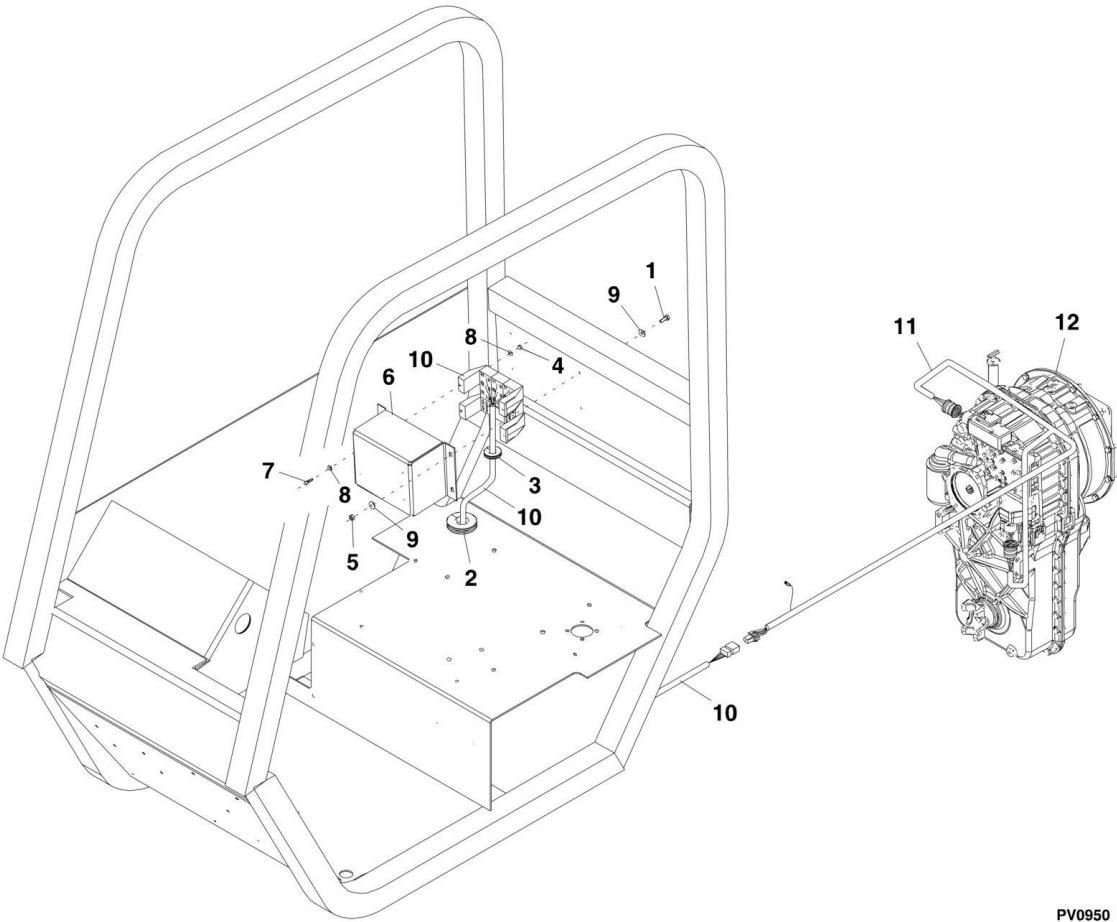
## SECTION 10 - ELECTRICAL

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                         | REV |
|------|-------------|-----|---------------------------------------------------------------------|-----|
| 87   | 8220114     | 2   | TERMINAL RING, 5/16, 6 AWG                                          |     |
| 88   | 1001128166  | 1   | FUSE SOLENOID POWER CABLE                                           |     |
| 88   | 8220114     | 2   | TERMINAL RING, 5/16, 6 AWG                                          |     |
| 89   | 1001128167  | 1   | SOLENOID POWER CABLE                                                |     |
| 90   | 1001128200  | 1   | FRAME GROUND CABLE                                                  |     |
| 90   | 1001117116  | 2   | TERMINAL RING, 3/8, 2 AWG                                           |     |
| 91   | 1001128201  | 1   | ENGINE GROUND CABLE                                                 |     |
| 91   | 1001117116  | 2   | TERMINAL RING, 3/8, 2 AWG                                           |     |
| 93   | 0641610     | 3   | HEX HD CAPSCREW, 3/8-16X1-1/4, GR 5                                 |     |
| 94   | 4711600     | 2   | WASHER, 3/8                                                         |     |
| 96   | 88521206    | 2   | LOCKNUT, 3/8-16                                                     |     |
| 97   | 7310012     | 1   | FUSEABLE LINK, 150 AMP                                              |     |
| 98   |             | Ref | ECM POWER HARNESS, (See ECM POWER HARNESS for Breakdown)            |     |
| 99   | 8406112     | 4   | CLIP                                                                |     |
| 100  | 10837368    | 1   | DOUBLE TUBE CLAMP                                                   |     |
| 101  | 7300344     | 1   | BUS BAR, STARTER NEGATIVE                                           |     |
| 102  | 1001119904  | 1   | ALTERNATOR CABLE, NEGATIVE                                          |     |
| 140  |             | Ref | ENGINE ASSY, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown) |     |
| 149  |             | Ref | ECU ENGINE HARNESS, (See ENGINE ECU HARNESS for Breakdown)          |     |
| 168  | 1001114191  | 1   | STARTER EXTENSION HARNESS                                           |     |
| 201  | 4461270     | 4   | TERMINAL RING, 3/8, 2 AWG                                           |     |
| 202  | 8270147     | 2   | NEGATIVE BATTERY CLAMP ASSY, (includes hardware and cover)          |     |
| 203  | 4461265     | 2   | POSITIVE BATTERY TERMINAL ASSY, (includes item 301 and hardware)    |     |
| 204  | 1001117118  | 4   | TERMINAL RING, 3/8, 2 AWG                                           |     |
| 301  | 4461233     | 2   | POSITIVE BATTERY COVER                                              |     |



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FIGURE 10-6. TRANSMISSION HARNESS INSTALLATION



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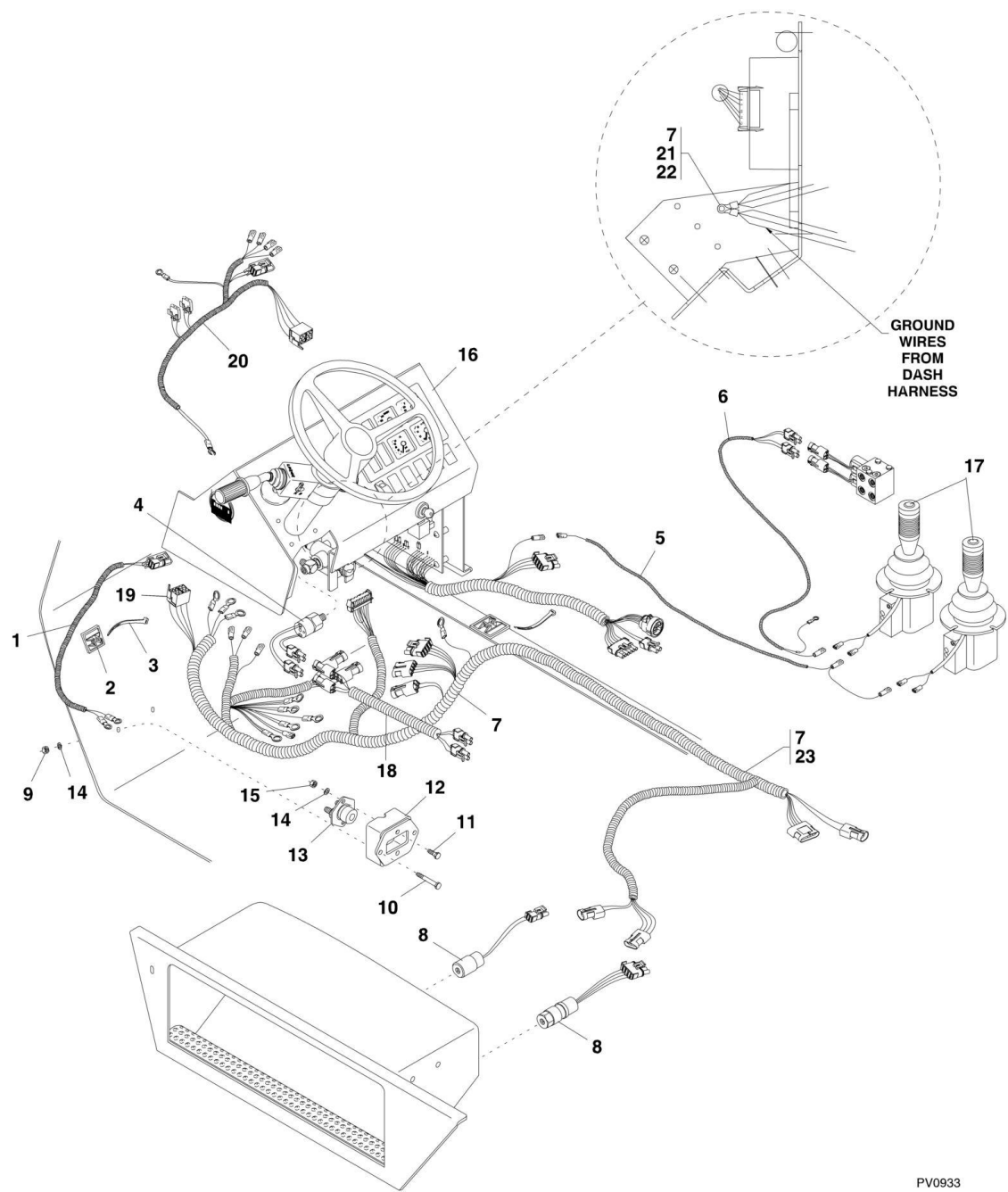
## SECTION 10 - ELECTRICAL

**FIGURE 10-6. TRANSMISSION HARNESS INSTALLATION**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                              | REV |
|------|-------------|-----|----------------------------------------------------------|-----|
| 1    | 0641406     | 4   | HEX HD CAPSCREW, 1/4-20X3/4                              |     |
| 2    | 2540048     | 1   | RUBBER GROMMET                                           |     |
| 3    | 2540049     | 1   | RUBBER GROMMET                                           |     |
| 4    | 3311001     | 4   | HEX NUT, #10-24                                          |     |
| 5    | 3311401     | 4   | HEX NUT, 1/4-20                                          |     |
| 6    | 3380583     | 1   | MODULE COVER                                             |     |
| 7    | 3931012     | 4   | SOCKET HD CAPSCREW, #10-24X3/4                           |     |
| 8    | 4711000     | 8   | PLAIN WASHER, #10                                        |     |
| 9    | 4751400     | 8   | PLAIN WASHER, 1/4                                        |     |
| 10   | 4923246     | 1   | TRANSMISSION RELAY HARNESS                               |     |
| 11   | 4923243     | 1   | TRANSMISSION SOLENOID HARNESS                            |     |
| 12   |             | Ref | ZF TRANSMISSION, (See DRIVE TRAIN SECTION for Breakdown) |     |

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FIGURE 10-7. OPERATOR'S COMPARTMENT ELECTRICAL GROUP INSTALLATION





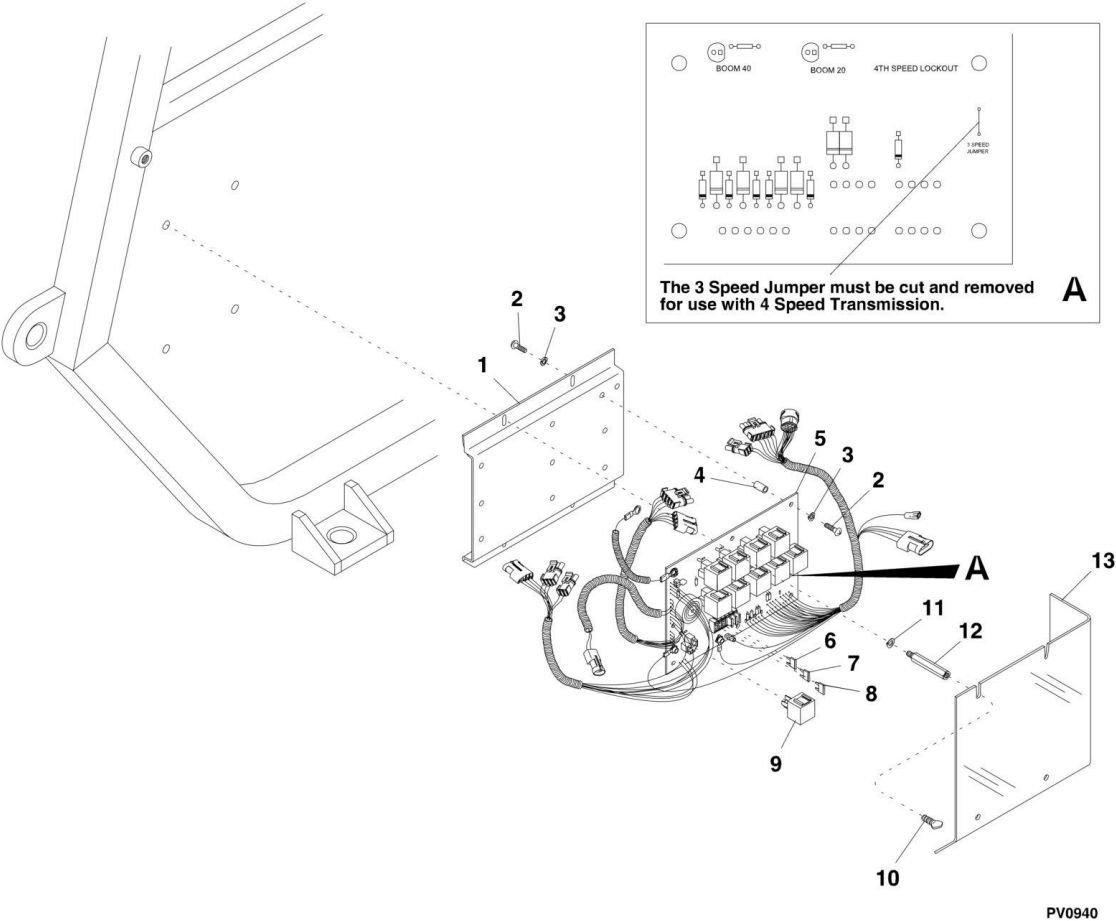
## SECTION 10 - ELECTRICAL

**FIGURE 10-7. OPERATOR'S COMPARTMENT ELECTRICAL GROUP INSTALLATION**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                          | REV |
|------|-------------|-----|--------------------------------------------------------------------------------------|-----|
| 1    | 10166906    | 1   | FOOT SWITCH HARNESS, DLO                                                             | C   |
| 2    | 10727600    | 3   | TIE WRAP MOUNT                                                                       |     |
| 3    | 10727600    | 3   | TIE WRAP                                                                             |     |
| 4    | 10166941    | 1   | PRESSURE SWITCH - D.P.S.T NORMALLY CLOSED, PARK BRAKE                                |     |
| 5    | 10138471    | 1   | JOYSTICK POWER WIRE HARNESS                                                          |     |
| 6    | 10239510    | 1   | JOYSTICK SOLENOID WIRE HARNESS                                                       |     |
| 7    | 4923233     | 1   | DASH HARNESS (SN 0160009654 through 0160040407, Excluding 0160037824 and 0160038521) |     |
| 7    | 1001114170  | 1   | DASH HARNESS (SN 0160040413 to Present, Including 0160037824 and 0160038521)         |     |
| 8    |             | Ref | TEST PORT HYDRAULIC CIRCUIT, (See HYDRAULIC CIRCUITS SECTION for Breakdown)          |     |
| 9    | 10866830    | 2   | HEX NUT, 1/4-20                                                                      |     |
| 10   | 10700010    | 2   | HEX HD CAPSCREW, 1/4-20X2-1/4                                                        |     |
| 11   | 10700003    | 2   | HEX HD CAPSCREW, 1/4-20X3/4                                                          |     |
| 12   | 10266453    | 1   | FOOT SWITCH WELDMENT                                                                 |     |
| 13   | 10866446    | 1   | FOOT SWITCH, DLO                                                                     |     |
| 14   | 10701308    | 4   | LOCKWASHER, 1/4                                                                      |     |
| 15   | 10701506    | 2   | HEX NUT, 1/4-20                                                                      |     |
| 16   |             | Ref | INSTRUMENT PANEL ASSY, (See CAB SECTION for Breakdown)                               |     |
| 17   |             | Ref | JOYSTICK CONTROL HYDRAULIC CIRCUIT, (See HYDRAULIC CIRCUITS SECTION for Breakdown)   |     |
| 18   | 4923253     | 1   | JUMPER WIRE                                                                          |     |
| 19   | 3740149     | 1   | PARK BRAKE RELAY                                                                     |     |
| 20   | 10367788    | 1   | FRONT WIPER AND HEATER HARNESS                                                       |     |
| 21   | 3911008     | 1   | ROUND HD MACHINE SCREW, #10-24X1/2                                                   |     |
| 22   | 10705104    | 1   | NUT, #10-24                                                                          |     |
| 23   | 10720496    | 5   | TIE WRAP                                                                             |     |

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FIGURE 10-8. FUSES, RELAYS AND BUZZER MOUNTING PANEL



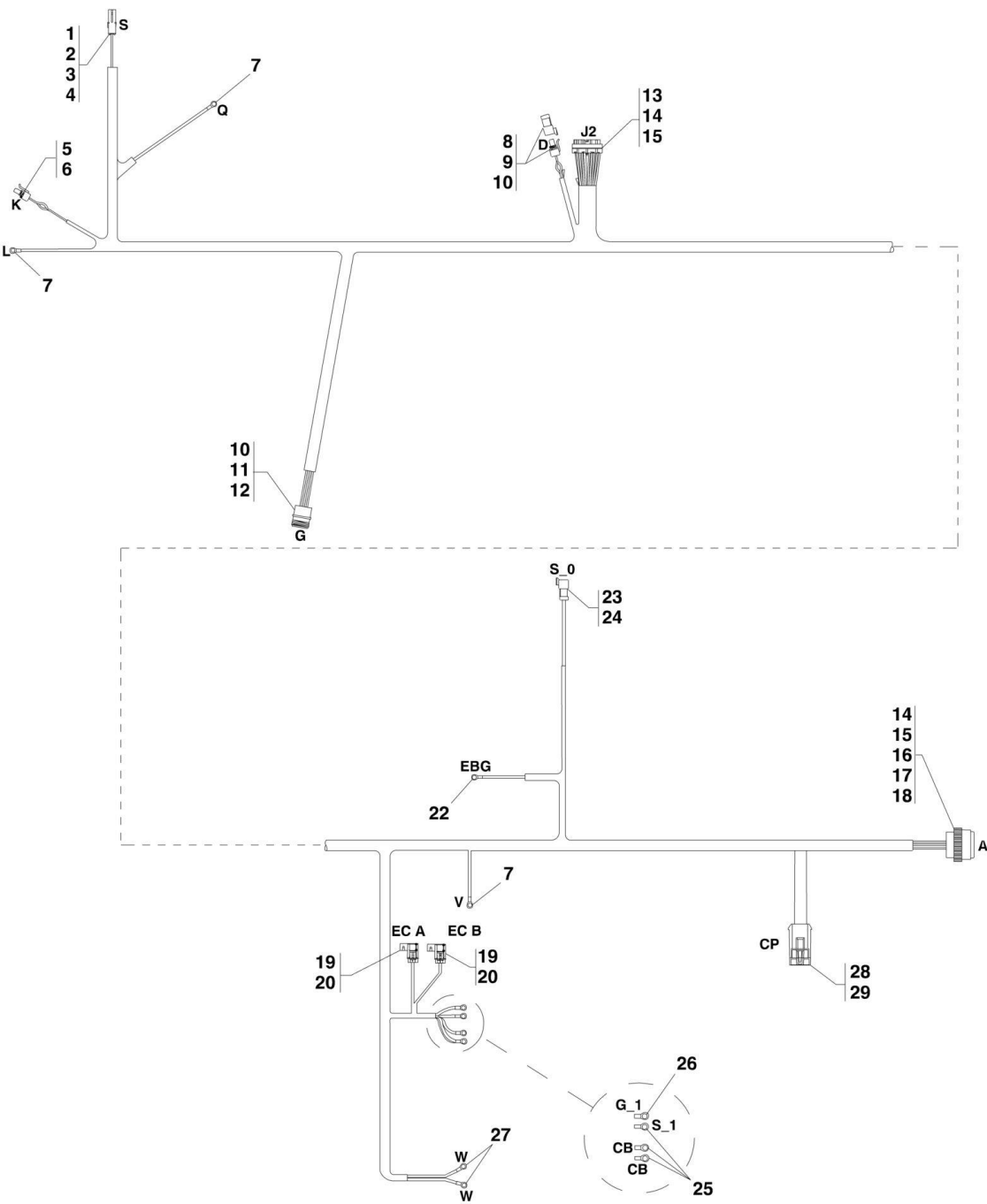
## SECTION 10 - ELECTRICAL

**FIGURE 10-8. FUSES, RELAYS AND BUZZER MOUNTING PANEL**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                   | REV |
|------|-------------|-----|-----------------------------------------------|-----|
|      | 10367205    | 1   | CIRCUIT BOARD ASSY, (includes items 1 thru 9) | AB  |
| 1    | 10266950    | 1   | CIRCUIT BOARD MOUNTING PANEL                  |     |
| 2    | 10867173    | 18  | ROUND HD SLOTTED SCREW, #8-32X1/4             |     |
| 3    | 10701305    | 18  | LOCKWASHER, #8                                |     |
| 4    | 10867159    | 9   | STAND-OFF, FEMALE RD., #8-32X1/2              |     |
| 5    | 10366891    | 1   | CIRCUIT BOARD                                 |     |
| 6    | 10866827    | 1   | FUSE, BLADE TYPE - 7.5 AMP, (Brown)           |     |
| 7    | 10866828    | 3   | FUSE, BLADE TYPE - 10 AMP, (Red)              |     |
| 8    | 10866829    | 2   | FUSE, BLADE TYPE - 15 AMP, (Blue)             |     |
| 9    | 8225119     | 10  | SEALED RELAY,HIGH INRUSH W/ RESISTOR          |     |
| 10   | 10138251    | 3   | THUMB SCREW, 1/4-20                           |     |
| 11   | 10701402    | 4   | FLAT WASHER, 1/4                              |     |
| 12   | 10138327    | 4   | STAND-OFF, 3 1/4 LONG HEX                     |     |
| 13   | 10238319    | 1   | ELECTRICAL PANEL COVER, PLASTIC               |     |

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FIGURE 10-9. ENGINE ECU HARNESS (SN 0160040413 to Present, Including 0160037824 and 0160038521)



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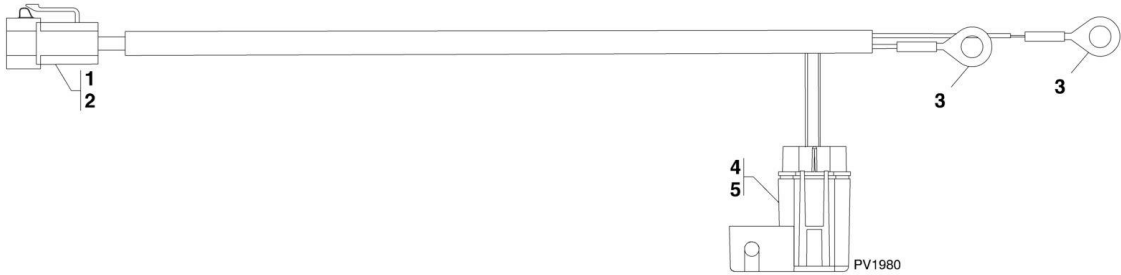
## SECTION 10 - ELECTRICAL

**FIGURE 10-9. ENGINE ECU HARNESS (SN 0160040413 to Present, Including 0160037824 and 0160038521)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                              | REV |
|------|-------------|-----|------------------------------------------|-----|
|      | 1001127037  | 1   | ENGINE ECU HARNESS, (includes all items) | D   |
| 1    | 4460590     | 1   | CONNECTOR                                |     |
| 2    | 8220124     | 1   | TERMINAL                                 |     |
| 3    | 4460608     | 1   | TERMINAL SEAL                            |     |
| 4    | 1001116727  | 1   | PLUG                                     |     |
| 5    | 1001117021  | 1   | CONNECTOR                                |     |
| 6    | 4460746     | 1   | TERMINAL                                 |     |
| 6    | 4460458     | 1   | TERMINAL SEAL                            |     |
| 7    | 4460042     | 3   | TERMINAL RING                            |     |
| 8    | 4460539     | 1   | CONNECTOR                                |     |
| 8    | 77363244    | 1   | WEDGE LOCK                               |     |
| 9    | 4460944     | 1   | CONTACT                                  |     |
| 10   | 4460466     | 2   | PLUG                                     |     |
| 11   | 1001116975  | 1   | HOUSING                                  |     |
| 12   | 4460943     | 1   | CONTACT                                  |     |
| 13   | 1001116821  | 1   | CONNECTOR                                |     |
| 14   | 1001116694  | 3   | TERMINAL                                 |     |
| 15   | 4460518     | 3   | PLUG                                     |     |
| 16   | 1001116962  | 2   | CONNECTOR                                |     |
| 17   | 4460465     | 2   | TERMINAL                                 |     |
| 18   | 4460509     | 2   | CONTACT                                  |     |
| 19   | 1001117018  | 2   | CONNECTOR, (includes 25 amp fuse)        |     |
| 20   | 1001116735  | 2   | FEMALE TERMINAL                          |     |
| 22   | 4460256     | 1   | TERMINAL RING                            |     |
| 23   | 1001116966  | 1   | CONNECTOR                                |     |
| 24   | 91143340    | 1   | TERMINAL                                 |     |
| 25   | 8220045     | 3   | TERMINAL RING                            |     |
| 26   | 4460043     | 1   | TERMINAL RING                            |     |
| 27   | 4460247     | 1   | TERMINAL RING                            |     |
| 28   | 1001117060  | 1   | CONNECTOR                                |     |
| 29   | 1001116738  | 1   | TERMINAL                                 |     |

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**FIGURE 10-10. ECM POWER HARNESS (SN 0160040413 to Present, Including 0160037824 and 0160038521)**



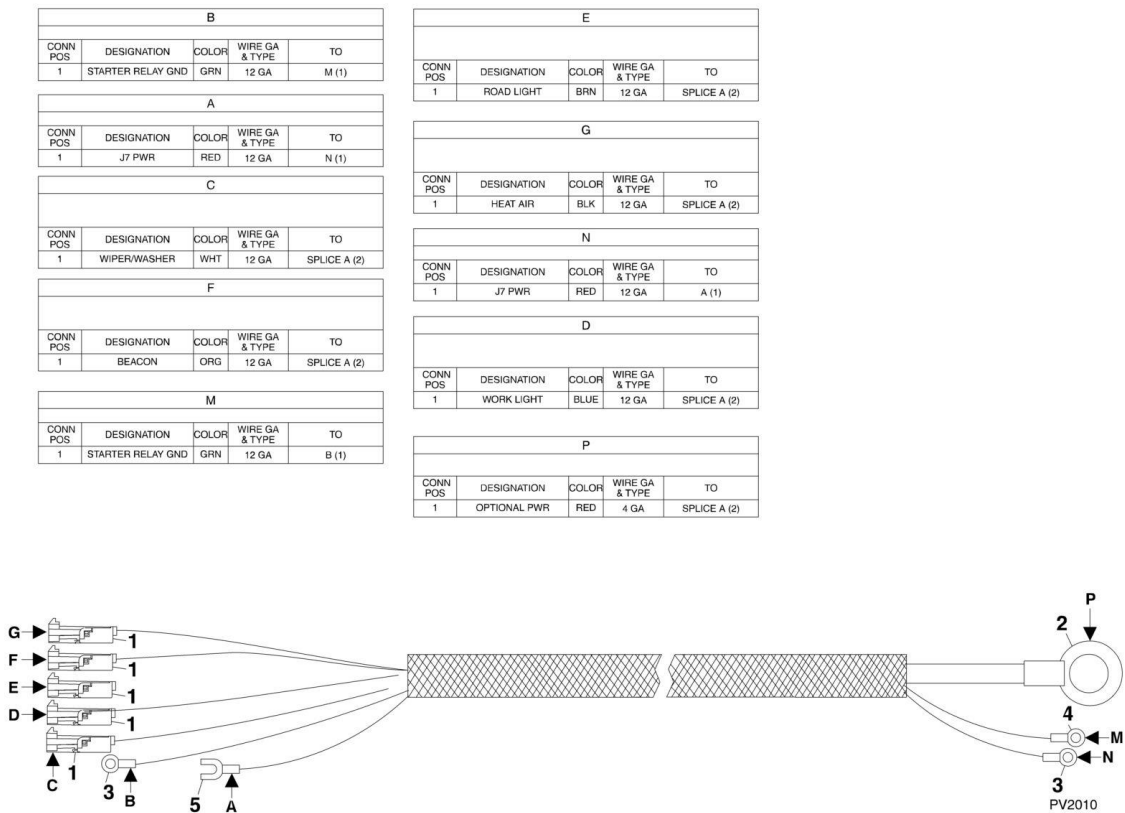
## SECTION 10 - ELECTRICAL

**FIGURE 10-10. ECM POWER HARNESS (SN 0160040413 to Present, Including 0160037824 and 0160038521)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                           | REV |
|------|-------------|-----|-------------------------------------------------------|-----|
|      | 1001127042  | 1   | ECM POWER HARNESS, (includes all items)               | C   |
| 1    | 1001116810  | 1   | PLUG                                                  |     |
| 2    | 4460509     | 1   | CONTACT                                               |     |
| 3    | 4460142     | 2   | TERMINAL RING, #10                                    |     |
| 4    | 1001117070  | 1   | SEALED CONNECTOR, (includes fuse cap and 30 amp fuse) |     |
| 5    | 1001116735  | 1   | CONNECTOR                                             |     |

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FIGURE 10-11. ELECTRICAL OPTIONS HARNESS (SN 0160032761 to Present)





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**FIGURE 10-11. ELECTRICAL OPTIONS HARNESS (SN 0160032761 to Present)**

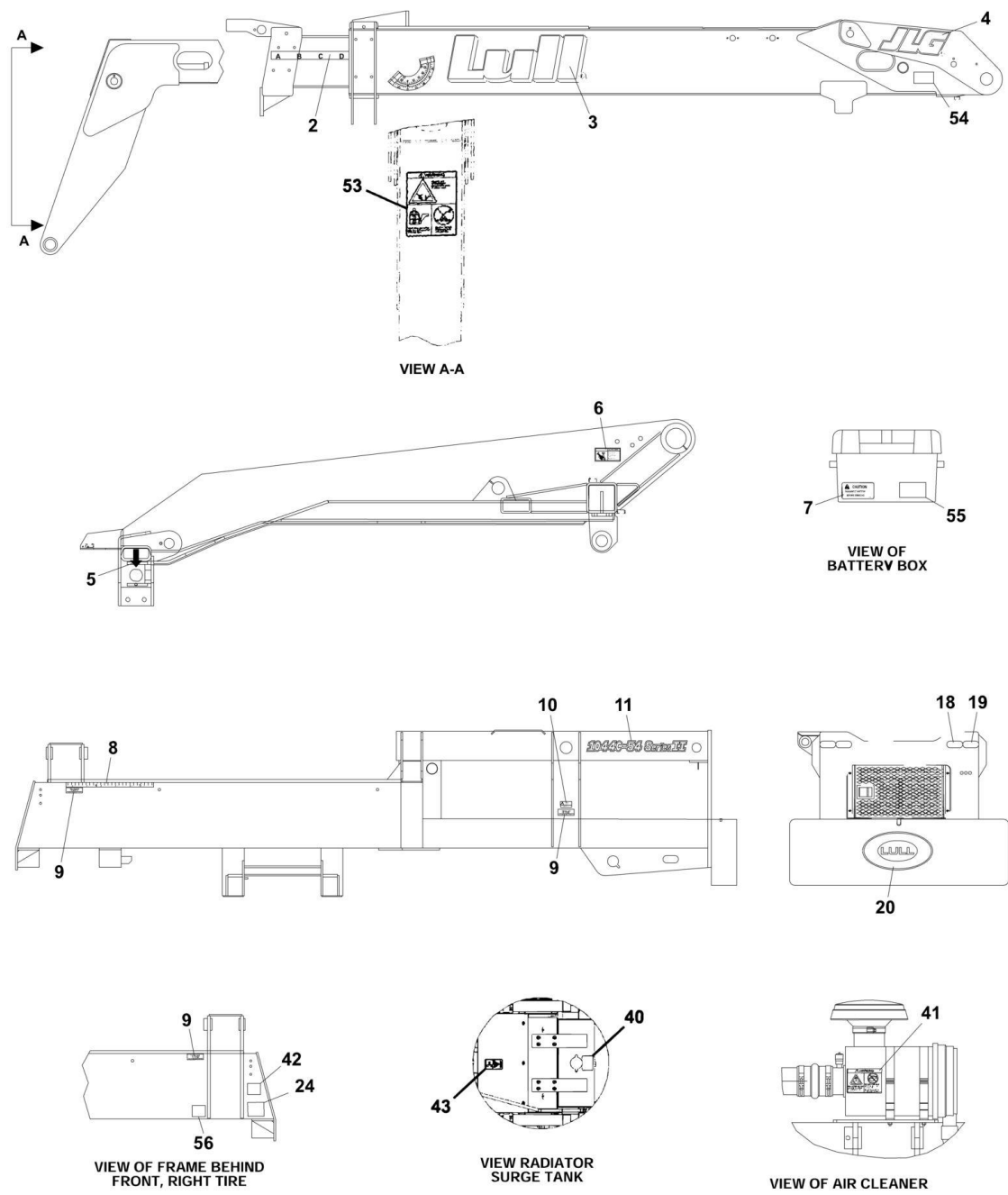
| ITEM | PART NUMBER | QTY | DESCRIPTION                                      | REV |
|------|-------------|-----|--------------------------------------------------|-----|
|      | 1001097109  | 1   | ELECTRICAL OPTIONS HARNESS, (includes all items) | E   |
| 1    | 80963056    | 5   | CONNECTOR                                        |     |
| 1    | 80963069    | 1   | TERMINAL                                         |     |
| 1    | 80963067    | 1   | SEAL                                             |     |
| 2    | 4460443     | 1   | TERMINAL RING                                    |     |
| 3    | 4460312     | 2   | TERMINAL RING                                    |     |
| 4    | 4460142     | 1   | TERMINAL RING                                    |     |
| 5    | 4460315     | 1   | TERMINAL RING                                    |     |



**SECTION 11 - DECALS**

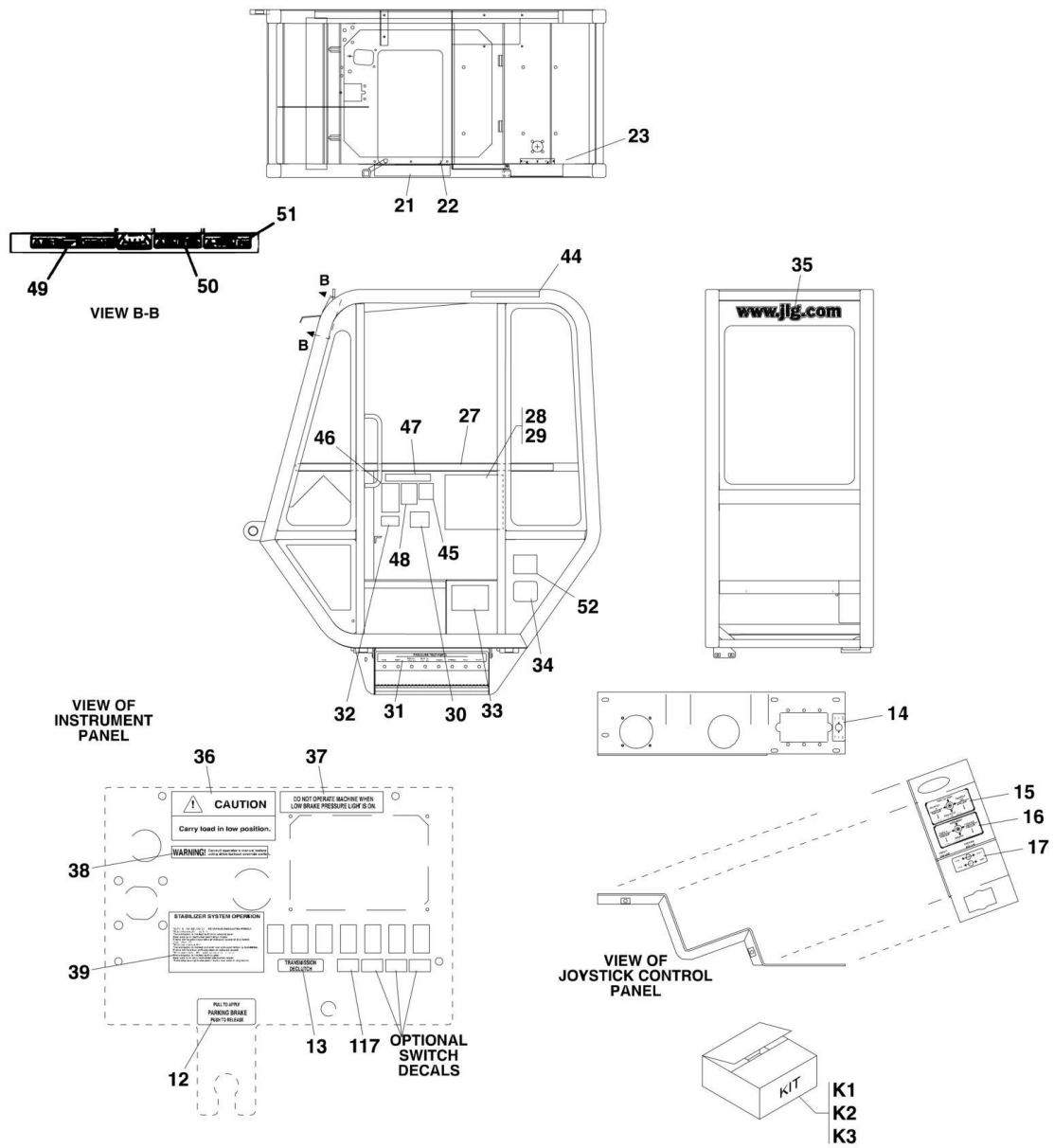
SECTION 11 - DECALS

FIGURE 11-1. DECAL GROUP



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# SECTION 11 - DECALS



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## SECTION 11 - DECALS

FIGURE 11-1. DECAL GROUP

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                     | REV |
|------|-------------|-----|---------------------------------------------------------------------------------|-----|
| 2    | 10239784    | 1   | BOOM EXTENSION DECAL                                                            |     |
| 3    | 1706103     | 2   | LULL BOOM DECAL                                                                 |     |
| 4    | 1706101     | 2   | JLG DECAL                                                                       |     |
| 5    | 10116346    | 2   | SMALL ARROW DECAL                                                               |     |
| 6    | 10267807    | 1   | PROXIMITY SWITCHES WARNING DECAL                                                |     |
| 7    | 10135092    | 2   | DISCONNECT BATTERY DECAL                                                        |     |
| 8    | 10438305    | 1   | FRAME TRANSFER SCALE DECAL                                                      |     |
| 9    | 10124751    | 4   | TIRE BALLAST REQUIRED DECAL                                                     |     |
| 10   | 10121319    | 2   | DON'T BE CARELESS DECAL                                                         |     |
| 11   | 1706400     | 2   | DECAL 1044C-54 SERIES II                                                        |     |
| 12   | 10135193    | 1   | PARKING BRAKE DECAL                                                             |     |
| 13   | 10135082    | 1   | TRANSMISSION DE-CLUTCH DECAL                                                    |     |
| 14   | 10130487    | 1   | FRAME TILT DECAL                                                                |     |
| 15   | 10135091    | 1   | FORK TILT, TRANSFER AND AUX DECAL                                               |     |
| 16   | 10135090    | 1   | BOOM HOIST/EXTEND AND AUX DECAL                                                 |     |
| 17   | 10138929    | 1   | OUTRIGGER CONTROL DECAL                                                         |     |
| 18   | 10718992    | 2   | YELLOW REFLECTOR (SN 0160009654 through 0160028941, Including 0160008714)       |     |
| 18   | 7301380     | 2   | ORANGE REFLECTOR (SN 0160028942 to Present)                                     |     |
| 19   | 10718991    | 2   | RED REFLECTOR (SN 0160009654 through 0160028941, Including 0160008714)          |     |
| 19   | 7301379     | 2   | RED REFLECTOR (SN 0160028942 to Present)                                        |     |
| 20   | 1706511     | 1   | LULL LOGO DECAL                                                                 |     |
| 21   | 1012350     | 1   | NON-SKID SURFACE STRIP                                                          |     |
| 22   | 10139087    | 1   | SAFETY TREAD                                                                    |     |
| 23   | 10112750    | 1   | STEER SELECT PLATE                                                              |     |
| 24   | N.S.S.      | Ref | SN PLATE                                                                        |     |
| 27   | 10438304    | 1   | CAB TRANSFER SCALE DECAL                                                        |     |
| 28   | 1706502     | 1   | SERVICE/LUBRICATION FLIP CARD (Prior to SN 0160037787)                          |     |
| 28   | 1001103932  | 1   | SERVICE/LUBRICATION FLIP CARD (SN 0160037787 to Present)                        |     |
| 29   | 1001105327  | 1   | CAPACITY CHART (Prior to SN 0160037900)                                         | 2   |
| 29   | 10239982    | 1   | SWING CARRIAGE CAPACITY CHART (Prior to SN 0160037900)                          |     |
| 29   | 1001106009  | 1   | CAPACITY CHART (SN 0160037900 to Present)                                       | B   |
| 29   | 1001110409  | 1   | SUPPLEMENTAL CAPACITY CHART BOOKLET (SN 0160037900 to Present)                  | B   |
| 30   | 10139033    | 1   | OUTRIGGER CAUTION DECAL                                                         |     |
| 31   | 10339962    | 1   | DIAGNOSTIC PORTS DECAL                                                          |     |
| 32   | 1702962     | 1   | CALIFORNIA PROPOSITION 65 WARNING DECAL                                         |     |
| 33   | 10220964    | 1   | CAUTION DECAL                                                                   |     |
| 34   | 3251813     | 1   | USA DECAL                                                                       |     |
| 35   | 1705687     | 1   | JLG WEBSITE DECAL                                                               |     |
| 36   | 10167809    | 1   | LOW LOAD DECAL                                                                  |     |
| 37   | 10124906    | 1   | LOW BRAKE PRESSURE WARNING DECAL                                                |     |
| 38   | 10167810    | 1   | WARNING CONSULT MANUAL DECAL                                                    |     |
| 39   | 10167808    | 1   | STABILIZER SYSTEM OPERATION DECAL                                               |     |
| 40   | 1001109053  | 1   | SLOW FILL DECAL (SN 0160040413 to Present, Including 0160037824 and 0160038521) |     |
| 41   | 1706300     | 1   | NO ETHER DECAL (SN 0160040413 to Present, Including 0160037824 and 0160038521)  |     |
| 42   | 1001131271  | 1   | PATENT TELEHANDLERS DECAL                                                       |     |
| 43   | 1706301     | 1   | MOVING PARTS DECAL                                                              |     |

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| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                               | REV |
|------|-------------|-----|-----------------------------------------------------------------------------------------------------------|-----|
| 44   | 1701640     | 1   | MANUAL DECAL                                                                                              |     |
| 45   | 1706851     | 1   | WARNING DO NOT JUMP DECAL, (ANSI)                                                                         |     |
| 46   | 1706304     | 1   | RUN OVER DECAL, (ANSI)                                                                                    |     |
| 47   | 1706303     | 1   | READ MANUAL DECAL, (ANSI)                                                                                 |     |
| 48   | 1706767     | 1   | MACHINE ROLL DECAL, (ANSI)                                                                                |     |
| 49   | 1706306     | 1   | TIP OVER DECAL                                                                                            |     |
| 50   | 1706299     | 1   | ELECTROCUTION HAZARD DECAL                                                                                |     |
| 51   | 1706850     | 1   | CRUSH HAZARD WARNING DECAL                                                                                |     |
| 52   | 1706768     | 1   | NO RIDERS DECAL                                                                                           |     |
| 53   | 1706298     | 1   | CARRY PERSONNEL DECAL                                                                                     |     |
| 54   | 1706302     | 2   | PINCH POINT DECAL                                                                                         |     |
| 55   | 1706296     | 2   | BATTERY WARNING DECAL                                                                                     |     |
| 56   | 1702631     | 1   | DECAL, BAR CODE                                                                                           |     |
| 117  | 10138410    | 1   | WINDSHIELD WASHER DECAL, (enclosed cab)                                                                   |     |
| K1   | 2915193     | 1   | DECAL KIT, (includes items 1 thru 17, 20 thru 23, 27, 30 thru 55 & items 51 & 55 thru 58 on BOOM SECTION) |     |
| K2   | 1001115205  | 1   | RIGHT SIDE DASH DECAL KIT, (includes items 45 thru 48)                                                    |     |
| K3   | 1001115208  | 1   | DECALS CAB KIT, (ANSI), (includes items 34 & 49 thru 52)                                                  |     |

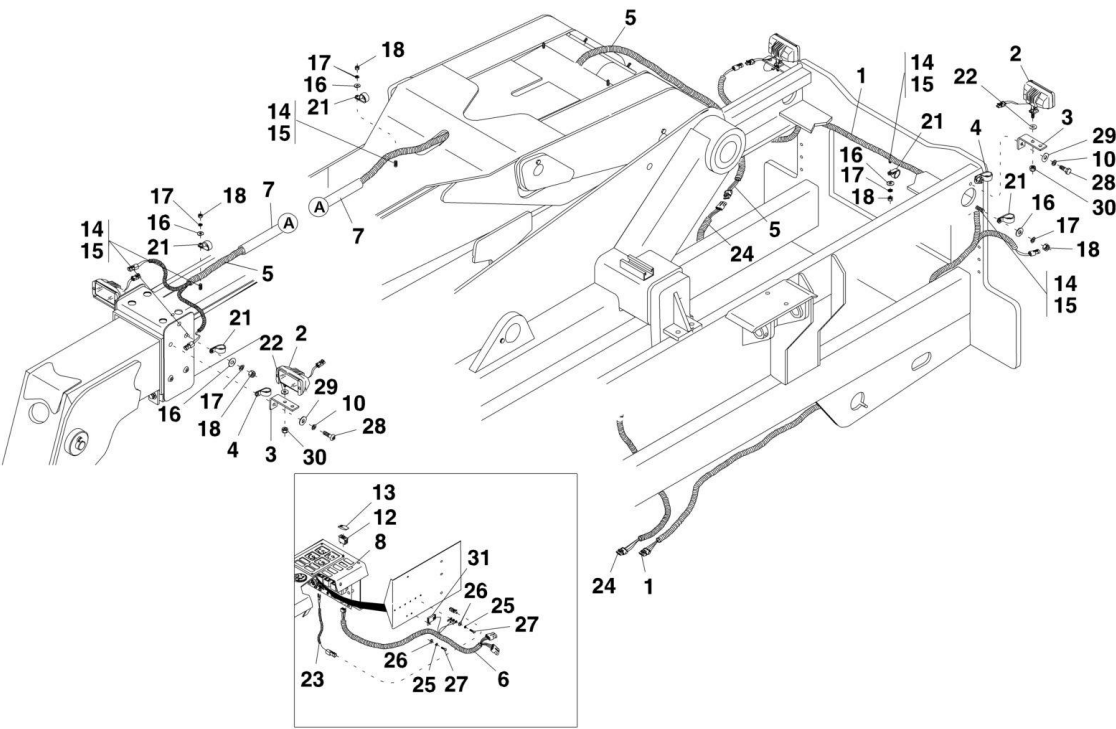




**SECTION 12 - OPTIONS**

SECTION 12 - OPTIONS

FIGURE 12-1. WORKLIGHT OPTION INSTALLATION (SN 0160009654 through 0160019928, Including 0160008714)



PV1130

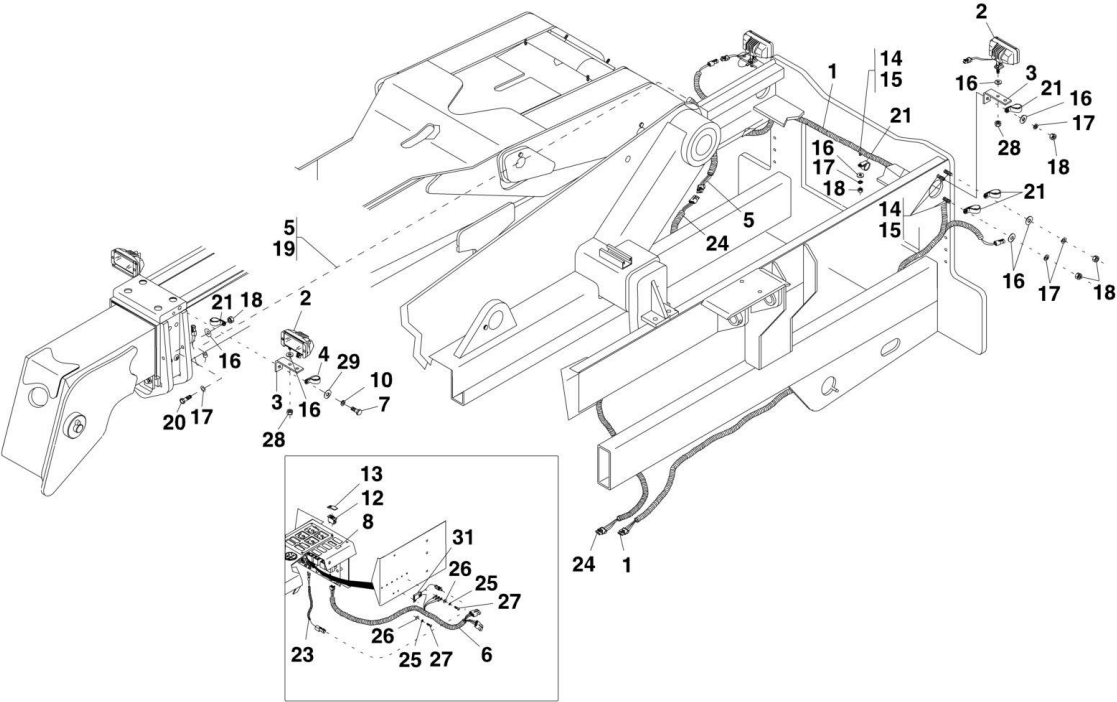
## SECTION 12 - OPTIONS

**FIGURE 12-1. WORKLIGHT OPTION INSTALLATION (SN 0160009654 through 0160019928, Including 0160008714)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                              | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------|-----|
|      | 10567238    | Ref | WORKLIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 31 for service) | AC  |
| 1    | 10265501    | 1   | REAR WIRE HARNESS                                                                        |     |
| 2    | 10165536    | 4   | FLOOD LIGHT                                                                              |     |
| 3    | 10236518    | 4   | LIGHT MOUNT                                                                              |     |
| 4    | 10837318    | 4   | CLAMP, 3/8                                                                               |     |
| 5    | 10265500    | 1   | BOOM WIRE HARNESS                                                                        |     |
| 6    | 10367239    | 1   | UNDER DASH WIRE HARNESS                                                                  |     |
| 7    | 10138431    | 1   | ELECTRIC WIRING TUBE                                                                     |     |
| 8    | 10138409    | 1   | WORK LIGHTS DECAL                                                                        |     |
| 10   | 10701312    | 4   | FLAT WASHER, 1/2                                                                         |     |
| 12   | 10837308    | 1   | OFF-ON-ON SWITCH, (work lights)                                                          |     |
| 13   | 10837309    | 1   | ACTUATOR SWITCH                                                                          |     |
| 14   | 10837141    | 15  | STUD, 3/8-16X1                                                                           |     |
| 15   | 10837142    | 15  | FERRULE, 3/8-16                                                                          |     |
| 16   | 10701404    | 15  | FLAT WASHER, 3/8                                                                         |     |
| 17   | 10701310    | 15  | LOCKWASHER, 3/8                                                                          |     |
| 18   | 10701508    | 15  | HEX NUT, 3/8-16                                                                          |     |
| 21   | 10717554    | 15  | CLAMP, 3/8                                                                               |     |
| 22   | 10701403    | 4   | FLAT WASHER, 5/16                                                                        |     |
| 23   | 10167013    | 1   | AUX WIRE HARNESS                                                                         |     |
| 24   | 10165550    | 1   | TRANSFER CARRIAGE WIRE HARNESS                                                           |     |
| 25   | 10701306    | 6   | LOCKWASHER, #10                                                                          |     |
| 26   | 10701400    | 6   | FLAT WASHER, #10                                                                         |     |
| 27   | 10702054    | 6   | MS SCREW, #10                                                                            |     |
| 28   | 8310474     | 4   | WELD STUD, 1/2-13X1-1/2                                                                  |     |
| 29   | 8307007     | 4   | LOCKWASHER, 1/2                                                                          |     |
| 30   | 8305012     | 4   | HEX NUT, 1/2-13                                                                          |     |
| 31   | 10167871    | 4   | FUSE HOLDER ASSY                                                                         |     |

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FIGURE 12-2. WORKLIGHT OPTION INSTALLATION (SN 0160019929 through 0160030844)



PV1131

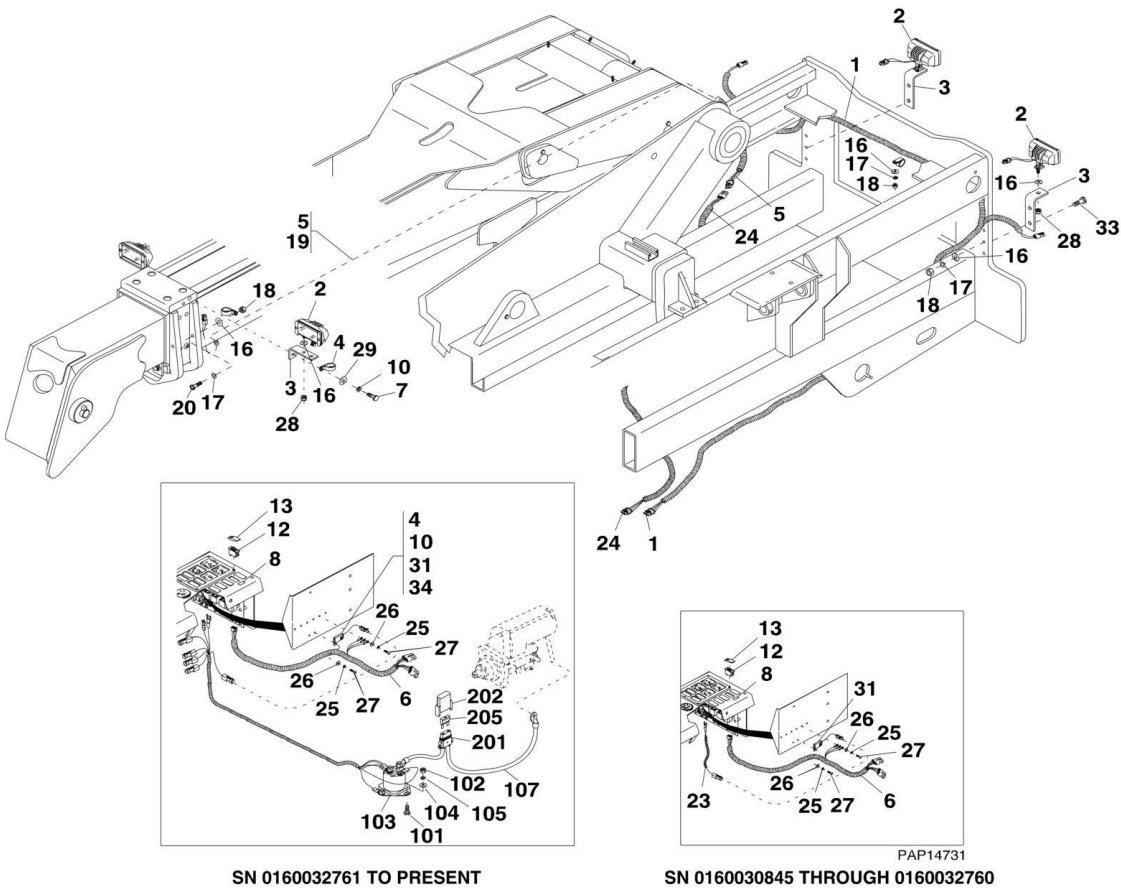
## SECTION 12 - OPTIONS

**FIGURE 12-2. WORKLIGHT OPTION INSTALLATION (SN 0160019929 through 0160030844)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                              | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------|-----|
|      | 10567238    | Ref | WORKLIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 31 for service) | D   |
| 1    | 10265501    | 1   | REAR WIRE HARNESS                                                                        |     |
| 2    | 10165536    | 4   | FLOOD LIGHT                                                                              |     |
| 3    | 10236518    | 4   | LIGHT MOUNT                                                                              |     |
| 4    | 10837318    | 4   | CLAMP, 3/8                                                                               |     |
| 5    | 10265500    | 1   | BOOM WIRE HARNESS                                                                        |     |
| 6    | 10367239    | 1   | UNDER DASH WIRE HARNESS                                                                  |     |
| 7    | 0641806     | 2   | HEX HD CAPSCREW, 1/2-13X3/4                                                              |     |
| 8    | 10138409    | 1   | WORK LIGHTS DECAL                                                                        |     |
| 10   | 10701312    | 2   | FLAT WASHER, 1/2                                                                         |     |
| 12   | 10837308    | 1   | OFF-ON-ON SWITCH, (work lights)                                                          |     |
| 13   | 10837309    | 1   | ACTUATOR SWITCH                                                                          |     |
| 14   | 10837141    | 6   | STUD, 3/8-16X1                                                                           |     |
| 15   | 10837142    | 6   | FERRULE, 3/8-16                                                                          |     |
| 16   | 10701404    | 9   | FLAT WASHER, 3/8                                                                         |     |
| 17   | 10701310    | 5   | LOCKWASHER, 3/8                                                                          |     |
| 18   | 10701508    | 5   | HEX NUT, 3/8-16                                                                          |     |
| 19   | 10720496    | 10  | TIE WRAP                                                                                 |     |
| 20   | 0641608     | 3   | HEX HD CAPSCREW, 3/8-16X1                                                                |     |
| 21   | 10717554    | 9   | CLAMP, 3/8                                                                               |     |
| 23   | 10167013    | 1   | AUX WIRE HARNESS                                                                         |     |
| 24   | 10165550    | 1   | TRANSFER CARRIAGE WIRE HARNESS                                                           |     |
| 25   | 10701306    | 6   | LOCKWASHER, #10                                                                          |     |
| 26   | 10701400    | 6   | FLAT WASHER, #10                                                                         |     |
| 27   | 10702054    | 6   | MS SCREW, #10                                                                            |     |
| 28   | 8305630     | 4   | HEX LOCK NUT, M10X1.5                                                                    |     |
| 29   | 8307007     | 2   | LOCKWASHER, 1/2                                                                          |     |
| 31   | 10167871    | 1   | FUSE HOLDER ASSY                                                                         |     |

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FIGURE 12-3. WORKLIGHT OPTION INSTALLATION (SN 0160030845 to Present)



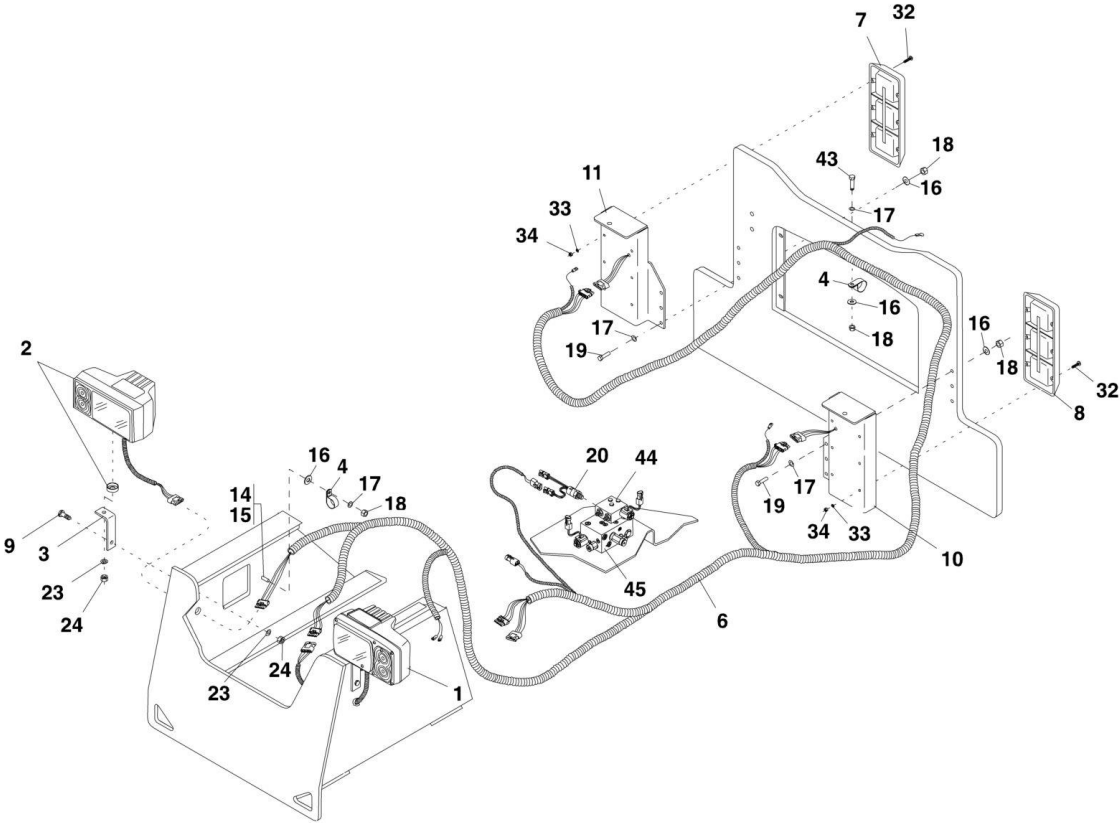
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**FIGURE 12-3. WORKLIGHT OPTION INSTALLATION (SN 0160030845 to Present)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                      | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------------------------------|-----|
|      | 10567238    | Ref | WORKLIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 34 for service)                         | I   |
| 1    | 10265501    | 1   | REAR WIRE HARNESS                                                                                                |     |
| 2    | 10165536    | 4   | FLOOD LIGHT                                                                                                      |     |
| 3    | 10236518    | 4   | LIGHT MOUNT                                                                                                      |     |
| 4    | 10837318    | 4   | CLAMP, 3/8                                                                                                       |     |
| 5    | 10265500    | 1   | BOOM WIRE HARNESS                                                                                                |     |
| 6    | 10367239    | 1   | UNDER DASH WIRE HARNESS                                                                                          |     |
| 7    | 0641806     | 2   | HEX HD CAPSCREW, 1/2-13X3/4                                                                                      |     |
| 8    | 10138409    | 1   | WORK LIGHTS DECAL                                                                                                |     |
| 10   | 10701312    | 2   | FLAT WASHER, 1/2                                                                                                 |     |
| 12   | 10837308    | 1   | ON-OFF SWITCH, (work lights)                                                                                     |     |
| 13   | 10837309    | 1   | ACTUATOR SWITCH                                                                                                  |     |
| 16   | 10701404    | 13  | FLAT WASHER, 3/8                                                                                                 |     |
| 17   | 10701310    | 5   | LOCKWASHER, 3/8                                                                                                  |     |
| 18   | 10701508    | 5   | HEX NUT, 3/8-16                                                                                                  |     |
| 19   | 10720496    | 18  | TIE WRAP                                                                                                         |     |
| 20   | 0641608     | 3   | HEX HD CAPSCREW, 3/8-16X1                                                                                        |     |
| 23   | 10167013    | 1   | AUX WIRE HARNESS (SN 0160030845 through 0160032760)                                                              |     |
| 24   | 10165550    | 1   | TRANSFER CARRIAGE WIRE HARNESS                                                                                   |     |
| 25   | 10701306    | 2   | LOCKWASHER, #10                                                                                                  |     |
| 26   | 10701400    | 2   | FLAT WASHER, #10                                                                                                 |     |
| 27   | 10702054    | 2   | MS SCREW, #10                                                                                                    |     |
| 28   | 8305630     | 4   | HEX LOCK NUT, M10X1.5                                                                                            |     |
| 29   | 8307007     | 2   | LOCKWASHER, 1/2                                                                                                  |     |
| 31   | 10167871    | 1   | FUSE HOLDER ASSY                                                                                                 |     |
| 33   | 0641616     | 4   | HEX HD CAPSCREW, 3/8-16X2                                                                                        |     |
| 34   | 8229235     | 1   | FUSE, 20 AMP, (yellow) (SN 0160032761 to Present)                                                                |     |
|      | 1001097106  | Ref | ELECTRICAL HARNESS ASSY, (not available to order, see items 101 thru 107 for service) (SN 0160032761 to Present) | A   |
| 101  | 0641406     | 2   | HEX HD CAPSCREW, 1/4-20X3/4                                                                                      |     |
| 102  | 3271405     | 2   | HEX LOCKNUT, 1/4-20, GR8                                                                                         |     |
| 103  | 3740067     | 1   | RELAY, SOLENOID                                                                                                  |     |
| 104  | 4711400     | 2   | WASHER, 1/4                                                                                                      |     |
| 105  | 4791400     | 2   | STAR WASHER, 1/4                                                                                                 |     |
| 106  |             | Ref | ELECTRICAL OPTIONS HARNESS, (See ELECTRICAL SECTION for Breakdown)                                               |     |
| 107  | 1001097134  | 1   | FUSED HARNESS, (includes items 201 thru 205)                                                                     | B   |
| 201  | 4461034     | 1   | TERMINAL, 2 POSITION, CONNECTOR                                                                                  |     |
| 202  | 4461035     | 1   | TERMINAL, 2 POSITION, HOUSING                                                                                    |     |
| 203  | 4461037     | 2   | WIRE SEAL, (not shown)                                                                                           |     |
| 204  | 4461038     | 2   | SPADE, (not shown)                                                                                               |     |
| 205  | 1001097129  | 1   | 60 AMP FUSE                                                                                                      |     |

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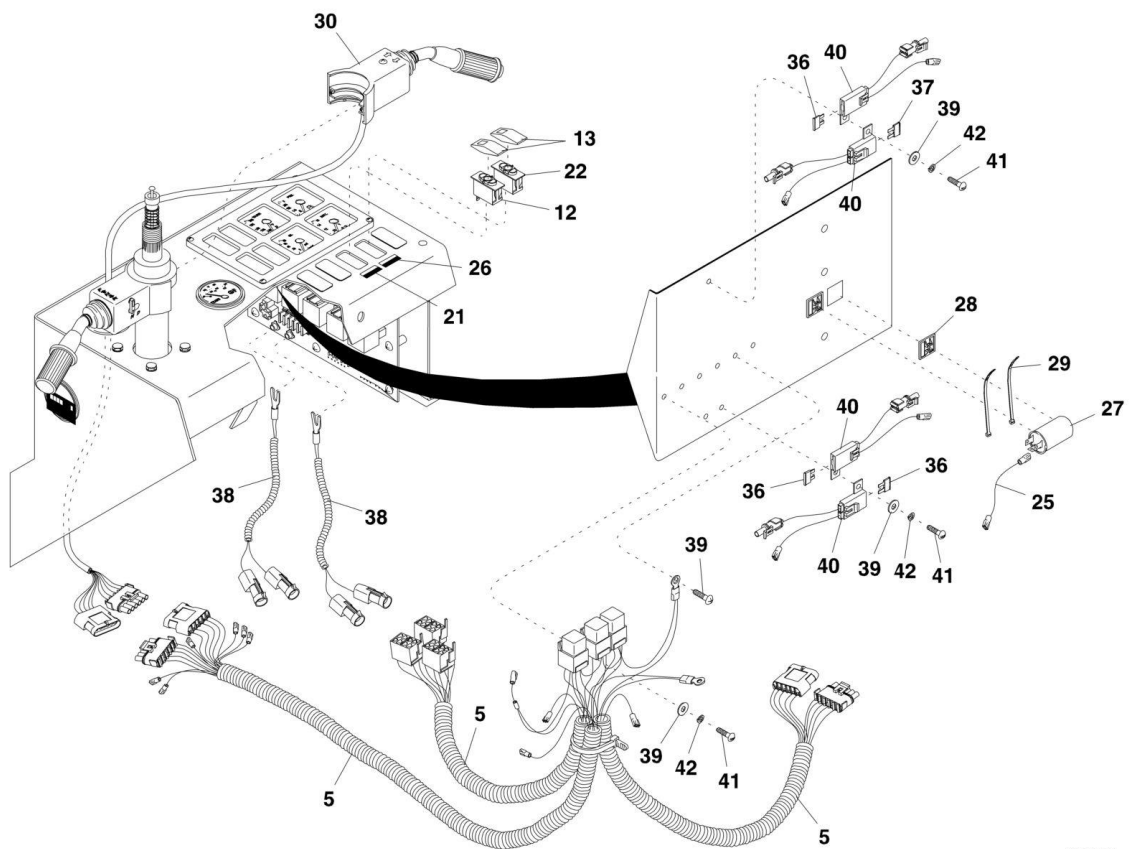
FIGURE 12-4. ROADWAY LIGHT OPTION INSTALLATION (SN 0160009654 through 0160032760, Including 0160008714)



PV1141



## SECTION 12 - OPTIONS



PV1150

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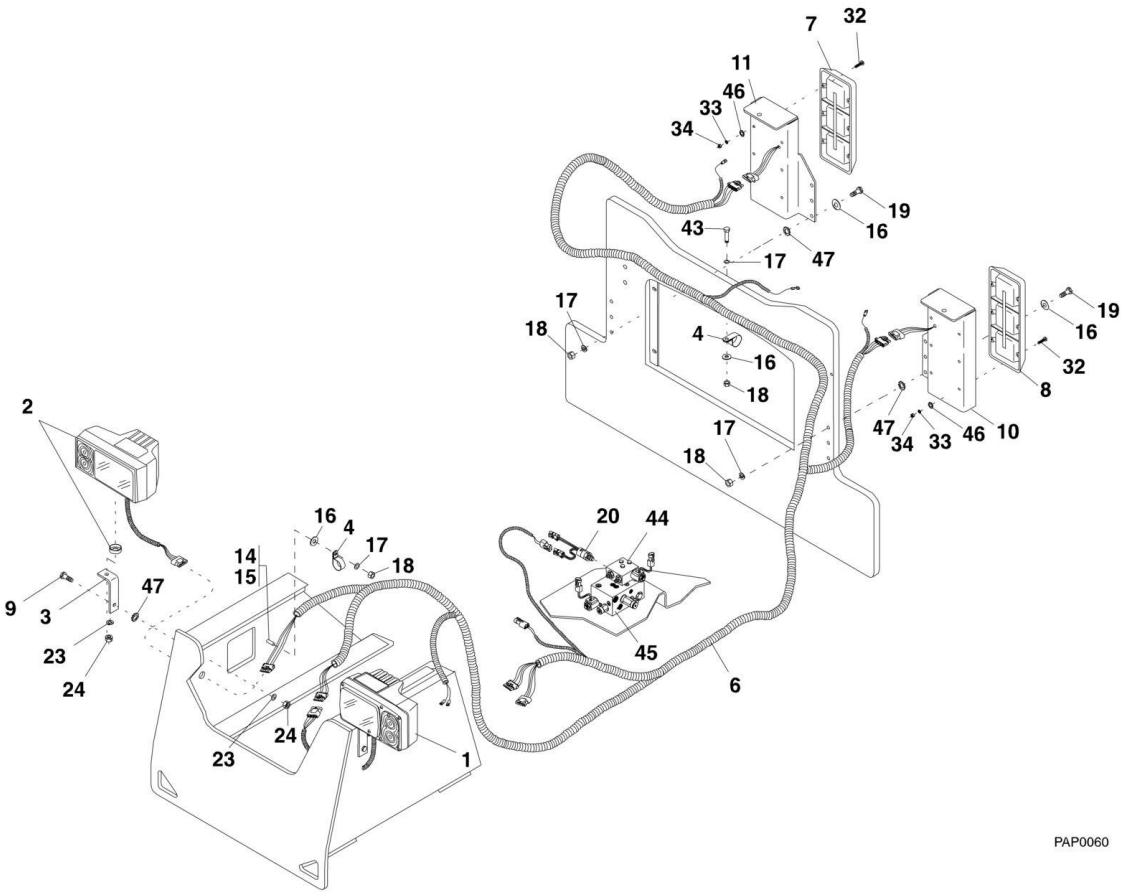
**FIGURE 12-4. ROADWAY LIGHT OPTION INSTALLATION (SN 0160009654 through 0160032760, Including 0160008714)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                       | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------|-----|
|      | 1101844     | Ref | ROADWAY LIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 43 for service)      | AC  |
| 1    | 1001141639  | 1   | LH HEAD LIGHT/TURN SIGNAL                                                                         |     |
| 2    | 1001141640  | 1   | RH HEAD LIGHT/TURN SIGNAL                                                                         |     |
| 3    | 10236518    | 2   | LIGHT MOUNT                                                                                       |     |
| 4    | 10717554    | 7   | CLAMP, 3/8 (SN 0160009654 through 0160030559, Including 0160008714)                               |     |
| 4    | 10837465    | 4   | CLAMP, 5/8 (SN 0160030560 to Present)                                                             |     |
| 5    | 1101845     | 1   | UNDER DASH WIRE HARNESS                                                                           |     |
| 6    | 1101853     | 1   | LIGHTS WIRE HARNESS                                                                               |     |
| 7    | 10338454    | 1   | RH BRAKE LIGHT/TURN SIGNAL                                                                        |     |
| 8    | 10338456    | 1   | LH BRAKE LIGHT/TURN SIGNAL                                                                        |     |
| 9    | 10700404    | 2   | HEX HD CAPSCREW, 1/2-13X1-1/2                                                                     |     |
| 10   | 10239083    | 1   | LH TAIL LIGHT MOUNT                                                                               |     |
| 11   | 10239088    | 1   | RH TAIL LIGHT MOUNT                                                                               |     |
| 12   | 10837308    | 1   | OFF-ON-ON SWITCH, (roadway lights)                                                                |     |
| 13   | 10837309    | 2   | SWITCH ACTUATOR                                                                                   |     |
| 14   | 10837141    | 3   | STUD, 3/8-16X1                                                                                    |     |
| 15   | 10837142    | 3   | FERRULE, 3/8-16                                                                                   |     |
| 16   | 10701404    | 10  | FLAT WASHER, 3/8                                                                                  |     |
| 17   | 10701310    | 10  | LOCKWASHER, 3/8                                                                                   |     |
| 18   | 10701508    | 10  | HEX NUT, 3/8-16                                                                                   |     |
| 19   | 0641616     | 6   | HEX HD CAPSCREW, 3/8-16X1-7/8                                                                     |     |
| 20   | 10167062    | 1   | BRAKE LIGHT SWITCH                                                                                |     |
| 21   | 10138459    | 1   | ROADWAY LIGHT DECAL                                                                               |     |
| 22   | 10836509    | 1   | ON-OFF SWITCH, (hazard lights)                                                                    |     |
| 23   | 10701312    | 2   | LOCKWASHER, 1/2                                                                                   |     |
| 24   | 10701510    | 2   | HEX NUT, 1/2-13                                                                                   |     |
| 25   | 103382001   | 1   | JUMPER WIRE                                                                                       |     |
| 26   | 10138460    | 1   | HAZARD LIGHTS DECAL                                                                               |     |
| 27   | 10719190    | 1   | FLASHER, 12V                                                                                      |     |
| 28   | 10727600    | 2   | TIE WRAP MOUNT                                                                                    |     |
| 29   | 10717989    | 2   | TIE WRAP                                                                                          |     |
| 30   | 1101846     | 1   | MODIFIED TURN SIGNAL SWITCH                                                                       |     |
| 32   | 10702130    | 12  | ROUND HD SLOTTED SCREW, 1/4-20X3/4                                                                |     |
| 33   | 10701308    | 12  | LOCKWASHER, 1/4                                                                                   |     |
| 34   | 10701506    | 12  | HEX NUT, 1/4-20                                                                                   |     |
| 36   | 10730799    | 3   | FUSE, 20 AMP, (yellow)                                                                            |     |
| 37   | 10730800    | 1   | FUSE, 30 AMP, (green)                                                                             |     |
| 38   | 10167870    | 2   | DUAL AUXILIARY POWER WIRE HARNESS                                                                 |     |
| 39   | 10701400    | 6   | FLAT WASHER, #10                                                                                  |     |
| 40   | 10167871    | 4   | FUSE HOLDER ASSY                                                                                  |     |
| 41   | 10702054    | 6   | SCREW                                                                                             |     |
| 42   | 10701306    | 6   | LOCKWASHER, #10                                                                                   |     |
| 43   | 0641612     | 1   | HEX HD CAPSCREW, 3/8-16X1-1/2                                                                     |     |
| 44   |             | Ref | BOOM EXTEND LOCKOUT VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                       |     |
| 45   |             | Ref | REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |



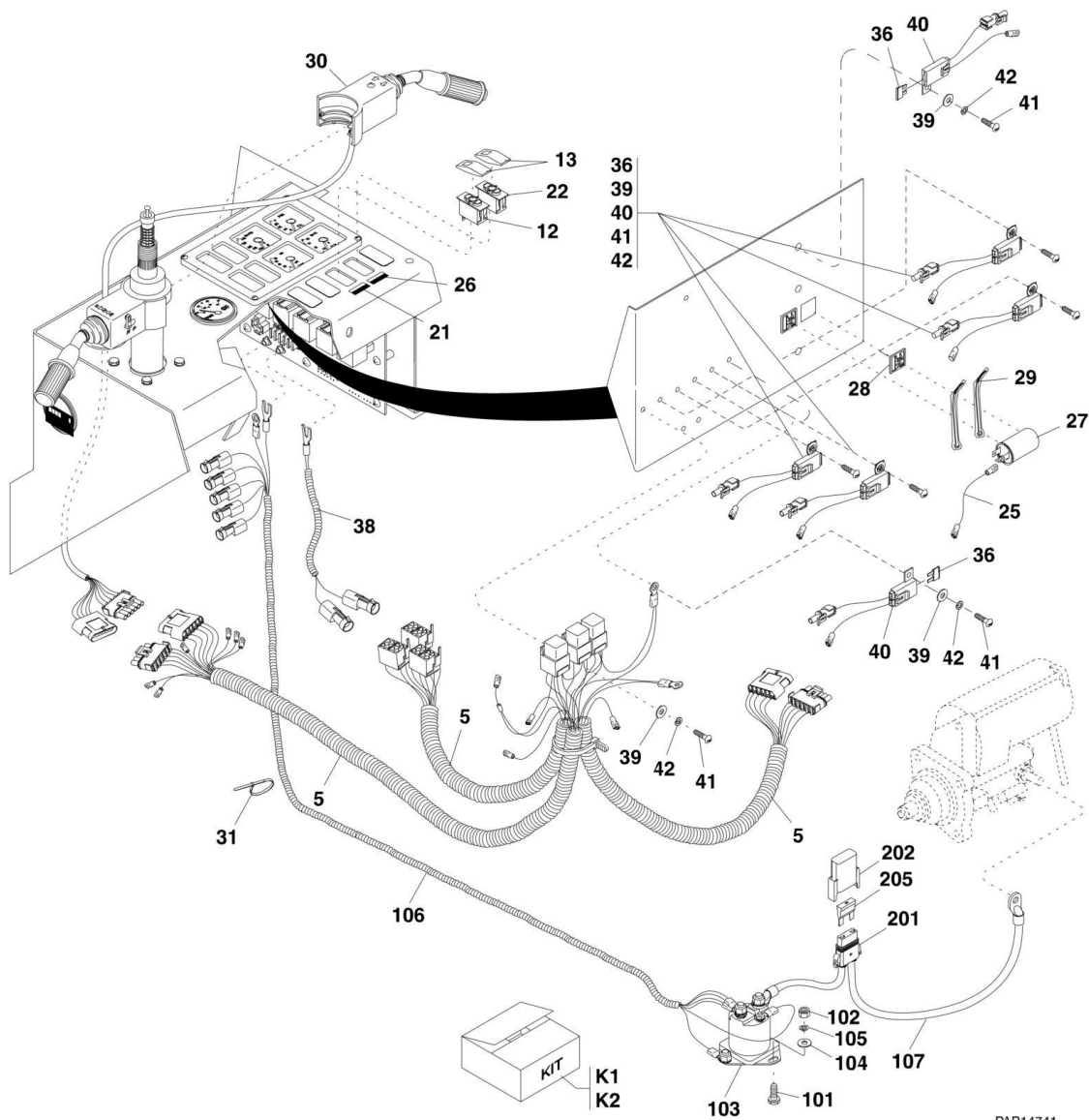
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FIGURE 12-5. ROADWAY LIGHT OPTION INSTALLATION (SN 0160032761 through 0160051139,  
Excluding 0160050734 and 0160050735)



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## SECTION 12 - OPTIONS



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## SECTION 12 - OPTIONS

**FIGURE 12-5. ROADWAY LIGHT OPTION INSTALLATION (SN 0160032761 through 0160051139,  
Excluding 0160050734 and 0160050735)**

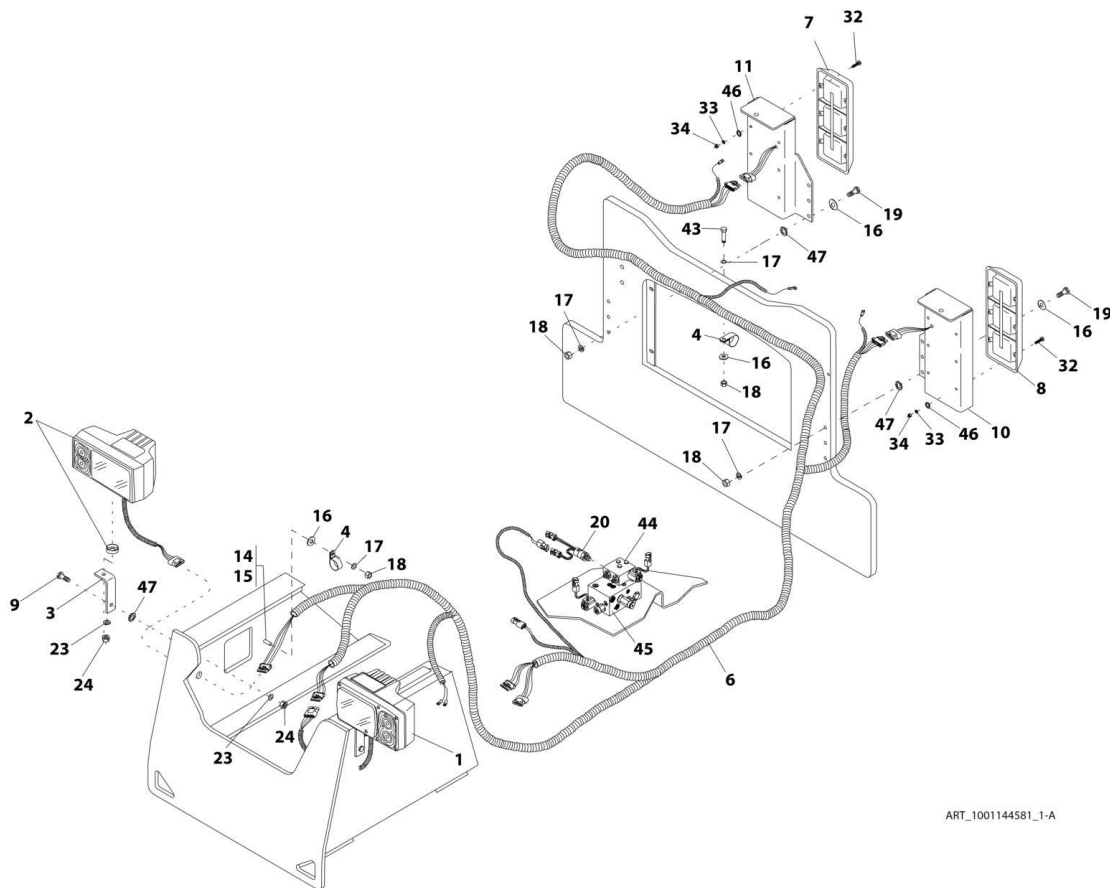
| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                       | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------|-----|
|      | 1101844     | Ref | ROADWAY LIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 43 for service)      | J   |
| 1    | 1001141597  | 1   | LH HEAD LIGHT/TURN SIGNAL                                                                         |     |
| 2    | 1001141598  | 1   | RH HEAD LIGHT/TURN SIGNAL                                                                         |     |
| 3    | 10236518    | 2   | LIGHT MOUNT                                                                                       |     |
| 4    | 10837465    | 4   | CLAMP, 5/8                                                                                        |     |
| 5    | 1001097169  | 1   | UNDER DASH WIRE HARNESS                                                                           |     |
| 6    | 1001097385  | 1   | LIGHTS WIRE HARNESS                                                                               |     |
| 7    | 10338454    | 1   | RH BRAKE LIGHT/TURN SIGNAL                                                                        |     |
| 8    | 10338456    | 1   | LH BRAKE LIGHT/TURN SIGNAL                                                                        |     |
| 9    | 10700404    | 2   | HEX HD CAPSCREW, 1/2-13X1-1/2                                                                     |     |
| 10   | 10239083    | 1   | LH TAIL LIGHT MOUNT                                                                               |     |
| 11   | 10239088    | 1   | RH TAIL LIGHT MOUNT                                                                               |     |
| 12   | 10837308    | 1   | ON-OFF SWITCH, (roadway lights)                                                                   |     |
| 13   | 10837309    | 2   | SWITCH ACTUATOR                                                                                   |     |
| 14   | 10837141    | 3   | STUD, 3/8-16X1                                                                                    |     |
| 15   | 10837142    | 3   | FERRULE, 3/8-16                                                                                   |     |
| 16   | 10701404    | 10  | FLAT WASHER, 3/8                                                                                  |     |
| 17   | 10701310    | 10  | LOCKWASHER, 3/8                                                                                   |     |
| 18   | 10701508    | 10  | HEX NUT, 3/8-16                                                                                   |     |
| 19   | 0641616     | 6   | HEX HD CAPSCREW, 3/8-16X1-7/8                                                                     |     |
| 20   | 10167062    | 1   | BRAKE LIGHT SWITCH                                                                                |     |
| 21   | 10138459    | 1   | ROADWAY LIGHT DECAL                                                                               |     |
| 22   | 10836509    | 1   | ON-OFF SWITCH, (hazard lights)                                                                    |     |
| 23   | 10701312    | 2   | LOCKWASHER, 1/2                                                                                   |     |
| 24   | 10701510    | 2   | HEX NUT, 1/2-13                                                                                   |     |
| 25   | 103382001   | 1   | JUMPER WIRE                                                                                       |     |
| 26   | 10138460    | 1   | HAZARD LIGHTS DECAL                                                                               |     |
| 27   | 10719190    | 1   | FLASHER, 12V                                                                                      |     |
| 28   | 10727600    | 2   | TIE WRAP MOUNT                                                                                    |     |
| 29   | 10717989    | 2   | TIE WRAP                                                                                          |     |
| 30   | 1101846     | 1   | MODIFIED TURN SIGNAL SWITCH                                                                       |     |
| 31   | 10720496    | 30  | TIE WRAP                                                                                          |     |
| 32   | 10702130    | 12  | ROUND HD SLOTTED SCREW, 1/4-20X3/4                                                                |     |
| 33   | 10701308    | 12  | LOCKWASHER, 1/4                                                                                   |     |
| 34   | 10701506    | 12  | HEX NUT, 1/4-20                                                                                   |     |
| 36   | 10730799    | 6   | FUSE, 20 AMP, (yellow)                                                                            |     |
| 38   | 10167870    | 1   | DUAL AUXILIARY POWER WIRE HARNESS                                                                 |     |
| 39   | 10701400    | 6   | FLAT WASHER, #10                                                                                  |     |
| 40   | 10167871    | 6   | FUSE HOLDER ASSY                                                                                  |     |
| 41   | 10702054    | 6   | SCREW                                                                                             |     |
| 42   | 10701306    | 6   | LOCKWASHER, #10                                                                                   |     |
| 43   | 0641612     | 1   | HEX HD CAPSCREW, 3/8-16X1-1/2                                                                     |     |
| 44   |             | Ref | BOOM EXTEND LOCKOUT VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                       |     |
| 45   |             | Ref | REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| 46   | 8310002     | 4   | STAR WASHER,1/4                                                                                   |     |
| 47   | 10701361    | 8   | STAR WASHER,1/2                                                                                   |     |

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| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                       | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------|-----|
|      | 1001097106  | Ref | ELECTRICAL HARNESS INSTALLATION, (not available to order, see items 101 thru 107 for service)     | A   |
| 101  | 0641406     | 2   | HEX HD CAPSCREW, 1/4-20X3/4                                                                       |     |
| 102  | 3271405     | 2   | HEX LOCKNUT, 1/4-20, GR8                                                                          |     |
| 103  | 3740067     | 1   | RELAY, SOLENOID                                                                                   |     |
| 104  | 4711400     | 2   | WASHER, 1/4                                                                                       |     |
| 105  | 4791400     | 2   | STAR WASHER, 1/4                                                                                  |     |
| 106  |             | Ref | ELECTRICAL OPTIONS HARNESS, (See ELECTRICAL SECTION for Breakdown)                                |     |
| 107  | 1001097134  | 1   | FUSED HARNESS, (includes items 201 thru 205)                                                      | B   |
| 201  | 4461034     | 1   | TERMINAL, 2 POSITION, CONNECTOR                                                                   |     |
| 202  | 4461035     | 1   | TERMINAL, 2 POSITION, HOUSING                                                                     |     |
| 203  | 4461037     | 2   | WIRE SEAL, (not shown)                                                                            |     |
| 204  | 4461038     | 2   | SPADE, (not shown)                                                                                |     |
| 205  | 1001097129  | 1   | 60 AMP FUSE                                                                                       |     |
| K1   | 1001141639  | 1   | LH ROADLIGHT REPLACEMENT KIT, (includes item 1, plug, terminal ring and replacement instructions) | A   |
| K2   | 1001141640  | 1   | RH ROADLIGHT REPLACEMENT KIT, (includes item 2, plug, terminal ring and replacement instructions) | A   |

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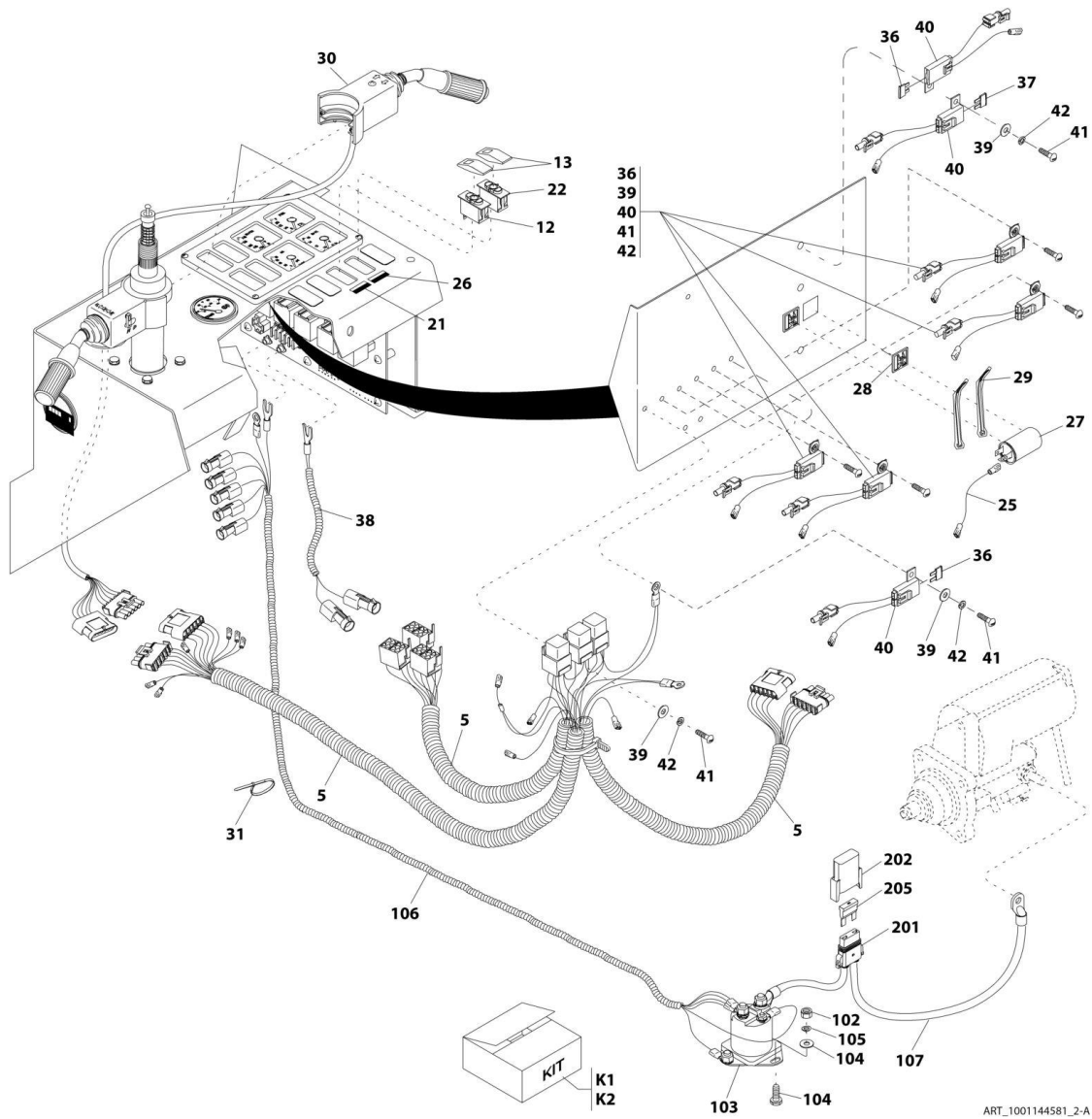
FIGURE 12-6. ROADWAY LIGHT OPTION INSTALLATION (SN 0160051140 to Present, Including 0160050734 and 0160050735)



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## SECTION 12 - OPTIONS



## SECTION 12 - OPTIONS

**FIGURE 12-6. ROADWAY LIGHT OPTION INSTALLATION (SN 0160051140 to Present, Including 0160050734 and 0160050735)**

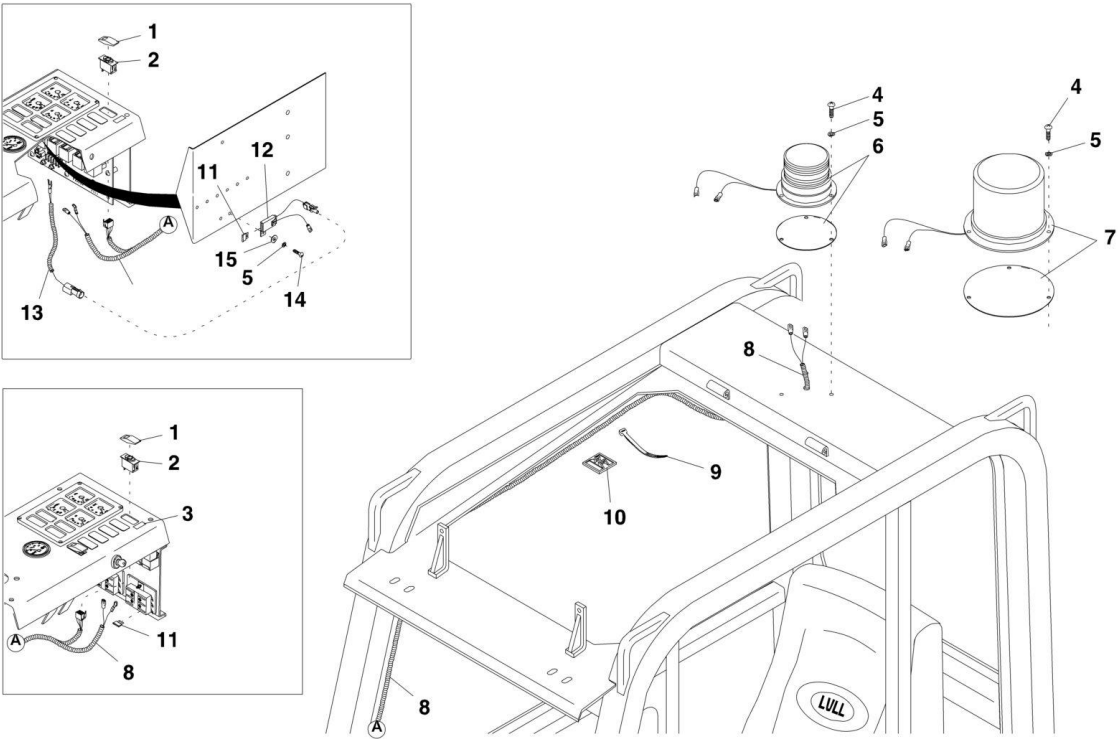
| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                       | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------|-----|
|      | 1001144581  | Ref | ROADWAY LIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 43 for service)      | B   |
| 1    | 1001141597  | 1   | LH HEAD LIGHT/TURN SIGNAL                                                                         |     |
| 2    | 1001141598  | 1   | RH HEAD LIGHT/TURN SIGNAL                                                                         |     |
| 3    | 10236518    | 2   | LIGHT MOUNT                                                                                       |     |
| 4    | 10837465    | 4   | CLAMP, 5/8                                                                                        |     |
| 5    | 1001097169  | 1   | UNDER DASH WIRE HARNESS                                                                           |     |
| 6    | 1001097385  | 1   | LIGHTS WIRE HARNESS                                                                               |     |
| 7    | 10338454    | 1   | RH BRAKE LIGHT/TURN SIGNAL                                                                        |     |
| 8    | 10338456    | 1   | LH BRAKE LIGHT/TURN SIGNAL                                                                        |     |
| 9    | 10700404    | 2   | HEX HD CAPSCREW, 1/2-13X1-1/2                                                                     |     |
| 10   | 10239083    | 1   | LH TAIL LIGHT MOUNT                                                                               |     |
| 11   | 10239088    | 1   | RH TAIL LIGHT MOUNT                                                                               |     |
| 12   | 10837308    | 1   | ON-OFF SWITCH, (roadway lights)                                                                   |     |
| 13   | 10837309    | 2   | SWITCH ACTUATOR                                                                                   |     |
| 14   | 10837141    | 3   | STUD, 3/8-16X1                                                                                    |     |
| 15   | 10837142    | 3   | FERRULE, 3/8-16                                                                                   |     |
| 16   | 10701404    | 10  | FLAT WASHER, 3/8                                                                                  |     |
| 17   | 10701310    | 10  | LOCKWASHER, 3/8                                                                                   |     |
| 18   | 10701508    | 10  | HEX NUT, 3/8-16                                                                                   |     |
| 19   | 0641616     | 6   | HEX HD CAPSCREW, 3/8-16X1-7/8                                                                     |     |
| 20   | 1001114966  | 1   | BRAKE LIGHT SWITCH                                                                                |     |
| 21   | 10138459    | 1   | ROADWAY LIGHT DECAL                                                                               |     |
| 22   | 10836509    | 1   | ON-OFF SWITCH, (hazard lights)                                                                    |     |
| 23   | 10701312    | 2   | LOCKWASHER, 1/2                                                                                   |     |
| 24   | 10701510    | 2   | HEX NUT, 1/2-13                                                                                   |     |
| 25   | 103382001   | 1   | JUMPER WIRE                                                                                       |     |
| 26   | 10138460    | 1   | HAZARD LIGHTS DECAL                                                                               |     |
| 27   | 10719190    | 1   | FLASHER, 12V                                                                                      |     |
| 28   | 10727600    | 2   | TIE WRAP MOUNT                                                                                    |     |
| 29   | 10717989    | 2   | TIE WRAP                                                                                          |     |
| 30   | 1101846     | 1   | MODIFIED TURN SIGNAL SWITCH                                                                       |     |
| 31   | 10720496    | 30  | TIE WRAP                                                                                          |     |
| 32   | 10702130    | 12  | ROUND HD SLOTTED SCREW, 1/4-20X3/4                                                                |     |
| 33   | 10701308    | 12  | LOCKWASHER, 1/4                                                                                   |     |
| 34   | 10701506    | 12  | HEX NUT, 1/4-20                                                                                   |     |
| 36   | 10730799    | 6   | FUSE, 20 AMP, (yellow)                                                                            |     |
| 37   | 10730800    | 1   | FUSE, 30 AMP, (Green)                                                                             |     |
| 38   | 10167870    | 1   | DUAL AUXILIARY POWER WIRE HARNESS                                                                 |     |
| 39   | 10701400    | 6   | FLAT WASHER, #10                                                                                  |     |
| 40   | 10167871    | 6   | FUSE HOLDER ASSY                                                                                  |     |
| 41   | 10702054    | 6   | SCREW                                                                                             |     |
| 42   | 10701306    | 6   | LOCKWASHER, #10                                                                                   |     |
| 43   | 0641612     | 1   | HEX HD CAPSCREW, 3/8-16X1-1/2                                                                     |     |
| 44   |             | Ref | BOOM EXTEND LOCKOUT VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                       |     |
| 45   |             | Ref | REAR AXLE STABILIZER CONTROL VALVE, (under cab), (See HYDRAULIC COMPONENTS SECTION for Breakdown) |     |
| 46   | 8310002     | 4   | STAR WASHER, 1/4                                                                                  |     |

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| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                       | REV |
|------|-------------|-----|---------------------------------------------------------------------------------------------------|-----|
| 47   | 10701361    | 8   | STAR WASHER,1/2                                                                                   | A   |
|      | 1001097106  | Ref | ELECTRICAL HARNESS INSTALLATION, (not available to order, see items 101 thru 107 for service)     |     |
| 101  | 0641406     | 2   | HEX HD CAPSCREW, 1/4-20X3/4                                                                       | B   |
| 102  | 3271405     | 2   | HEX LOCKNUT, 1/4-20, GR8                                                                          |     |
| 103  | 3740067     | 1   | RELAY, SOLENOID                                                                                   |     |
| 104  | 4711400     | 2   | WASHER, 1/4                                                                                       |     |
| 105  | 4791400     | 2   | STAR WASHER, 1/4                                                                                  |     |
| 106  |             | Ref | ELECTRICAL OPTIONS HARNESS, (See ELECTRICAL SECTION for Breakdown)                                |     |
| 107  | 1001097134  | 1   | FUSED HARNESS, (includes items 201 thru 205)                                                      |     |
| 201  | 4461034     | 1   | TERMINAL, 2 POSITION, CONNECTOR                                                                   |     |
| 202  | 4461035     | 1   | TERMINAL, 2 POSITION, HOUSING                                                                     |     |
| 203  | 4461037     | 2   | WIRE SEAL, (not shown)                                                                            |     |
| 204  | 4461038     | 2   | SPADE, (not shown)                                                                                |     |
| 205  | 1001097129  | 1   | 60 AMP FUSE                                                                                       | A   |
| K1   | 1001141639  | 1   | LH ROADLIGHT REPLACEMENT KIT, (includes item 1, plug, terminal ring and replacement instructions) |     |
| K2   | 1001141640  | 1   | RH ROADLIGHT REPLACEMENT KIT, (includes item 2, plug, terminal ring and replacement instructions) | A   |

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FIGURE 12-7. STROBE/ROTATING BEACON LIGHT OPTION INSTALLATION (SN 0160009654 through 0160032760, Including 0160008714)



PV1160

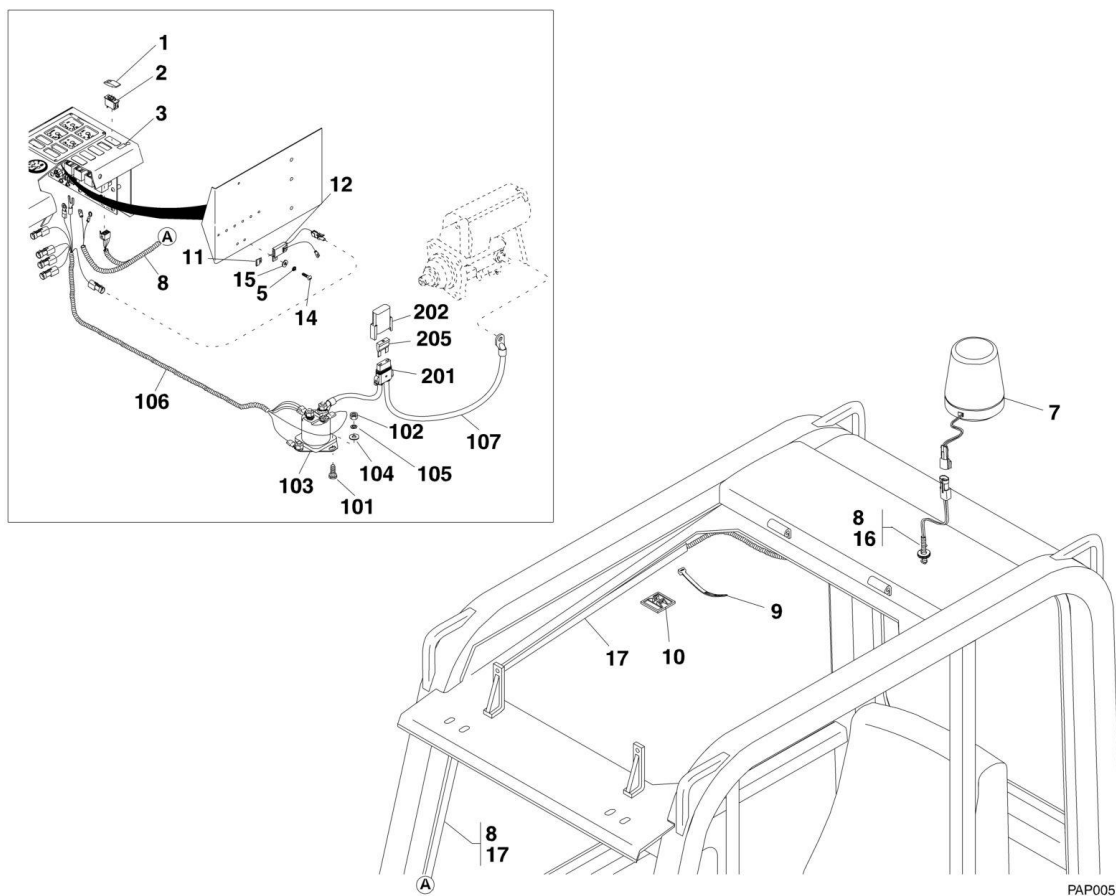
## SECTION 12 - OPTIONS

**FIGURE 12-7. STROBE/ROTATING BEACON LIGHT OPTION INSTALLATION (SN 0160009654 through 0160032760, Including 0160008714)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                          | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------------------|-----|
|      | 10268727    | Ref | STROBE LIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 15 for service)          | AA  |
|      | 10268728    | Ref | ROTATING BEACON LIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 15 for service) | AA  |
| 1    | 10837309    | 1   | SWITCH ACTUATOR                                                                                      |     |
| 2    | 10836509    | 1   | ON-OFF SWITCH, (beacon/strobe light)                                                                 |     |
| 3    | 10139648    | 1   | BEACON LIGHT DECAL, (10268728 only)                                                                  |     |
| 3    | 10138377    | 1   | STROBE LIGHT DECAL, (10268727 only)                                                                  |     |
| 4    | 10702082    | 3   | ROUND HD SLOTTED SCREW, #10-32X3/4                                                                   |     |
| 5    | 10701306    | 7   | LOCKWASHER, #10                                                                                      |     |
| 6    | 10238353    | 1   | LIGHT STROBE, AMBER                                                                                  |     |
| 7    | 10239647    | 1   | ROTATING BEACON LIGHT, AMBER                                                                         |     |
| 8    | 10238356    | 1   | WIRE HARNESS                                                                                         |     |
| 9    | 10717989    | 4   | TIE WRAP                                                                                             |     |
| 10   | 10727600    | 4   | TIE WRAP MOUNT                                                                                       |     |
| 11   | 10730797    | 1   | FUSE, 10 AMP, (red), (10268727 only)                                                                 |     |
| 11   | 10730798    | 1   | FUSE, 15 AMP, (blue), (10268728 only)                                                                |     |
| 12   | 10167871    | 1   | FUSE HOLDER ASSY                                                                                     |     |
| 13   | 10167013    | 1   | AUXILIARY POWER WIRE HARNESS                                                                         |     |
| 14   | 10702054    | 2   | ROUND HD SLOTTED SCREW, #10-24X1/2                                                                   |     |
| 15   | 10701400    | 2   | FLAT WASHER, #10                                                                                     |     |

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**FIGURE 12-8. STROBE/ROTATING BEACON LIGHT OPTION INSTALLATION (SN 0160032761 to Present)**



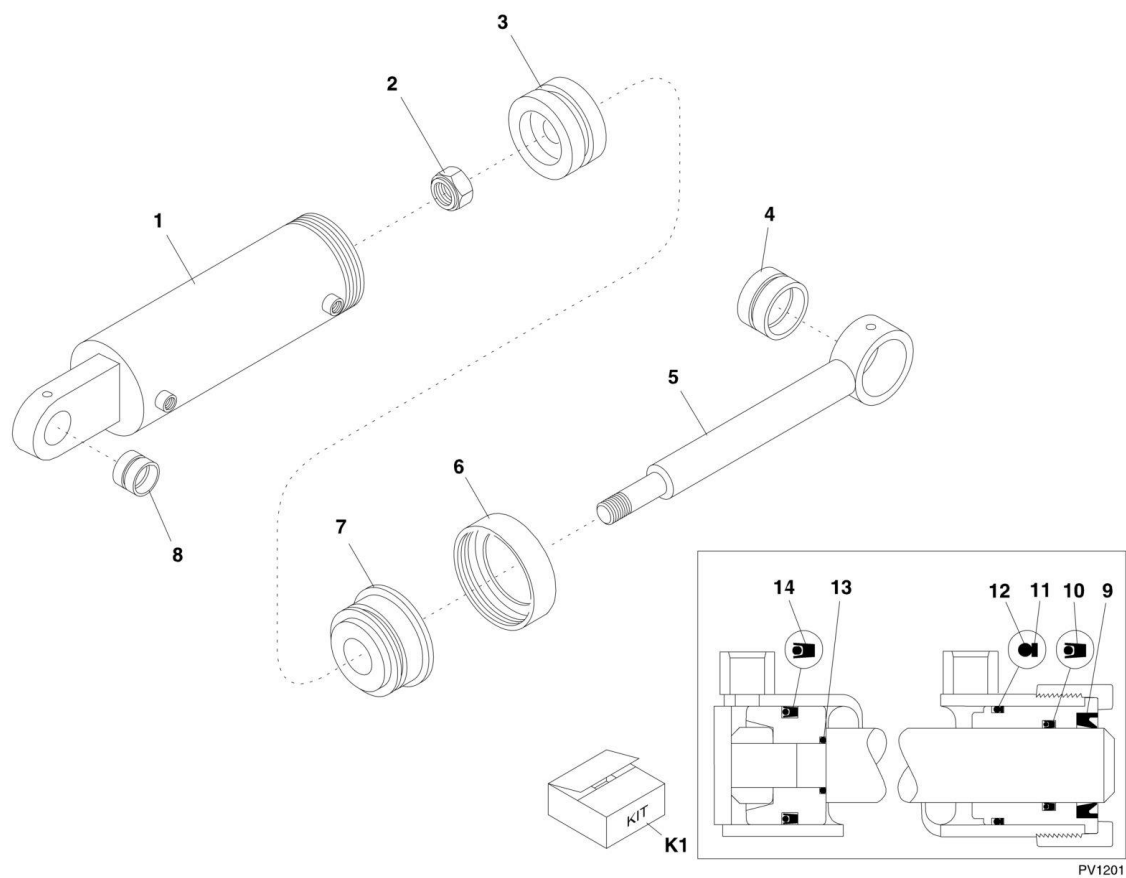
## SECTION 12 - OPTIONS

**FIGURE 12-8. STROBE/ROTATING BEACON LIGHT OPTION INSTALLATION (SN 0160032761 to Present)**

| ITEM | PART NUMBER | QTY    | DESCRIPTION                                                                                          | REV |
|------|-------------|--------|------------------------------------------------------------------------------------------------------|-----|
|      | 10268727    | Ref    | STROBE LIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 17 for service)          | AA  |
|      | 10268728    | Ref    | ROTATING BEACON LIGHT OPTION INSTALLATION, (not available to order, see items 1 thru 17 for service) | D   |
| 1    | 10837309    | 1      | SWITCH ACTUATOR                                                                                      |     |
| 2    | 10836509    | 1      | ON-OFF SWITCH, (beacon/strobe light)                                                                 |     |
| 3    | 10139648    | 1      | BEACON LIGHT DECAL, (10268728 only)                                                                  |     |
| 3    | 10138377    | 1      | STROBE LIGHT DECAL, (10268727 only)                                                                  |     |
| 5    | 10701306    | 2      | LOCKWASHER, #10                                                                                      |     |
| 7    | 8500066     | 1      | ROTATING BEACON LIGHT, AMBER                                                                         |     |
| 8    | 1001097623  | 1      | WIRE HARNESS                                                                                         |     |
| 9    | 10717989    | 10     | TIE WRAP                                                                                             |     |
| 10   | 10727600    | 4      | TIE WRAP MOUNT                                                                                       |     |
| 11   | 10730797    | 1      | FUSE, 10 AMP, (red), (10268727 only)                                                                 |     |
| 11   | 10730798    | 1      | FUSE, 15 AMP, (blue), (10268728 only)                                                                |     |
| 12   | 10167871    | 1      | FUSE HOLDER ASSY                                                                                     |     |
| 14   | 10702054    | 2      | ROUND HD SLOTTED SCREW, #10-24X1/2                                                                   |     |
| 15   | 10701400    | 2      | FLAT WASHER, #10                                                                                     |     |
| 16   | 8526035     | AR     | SEALANT                                                                                              |     |
| 17   | 8096D097    | 4.6 ft | DUCT, WIRING                                                                                         |     |
|      | 1001097106  | Ref    | ELECTRICAL HARNESS INSTALLATION, (not available to order, see items 101 thru 107 for service)        | A   |
| 101  | 0641406     | 2      | HEX HD CAPSCREW, 1/4-20X3/4                                                                          |     |
| 102  | 3271405     | 2      | HEX LOCKNUT, 1/4-20, GR8                                                                             |     |
| 103  | 3740067     | 1      | RELAY, SOLENOID                                                                                      |     |
| 104  | 4711400     | 2      | WASHER, 1/4                                                                                          |     |
| 105  | 4791400     | 2      | STAR WASHER, 1/4                                                                                     |     |
| 106  |             | Ref    | ELECTRICAL OPTIONS HARNESS, (See ELECTRICAL SECTION for Breakdown)                                   |     |
| 107  | 1001097134  | 1      | FUSED HARNESS, (includes items 201 thru 205)                                                         |     |
| 201  | 4461034     | 1      | TERMINAL, 2 POSITION, CONNECTOR                                                                      |     |
| 202  | 4461035     | 1      | TERMINAL, 2 POSITION, HOUSING                                                                        |     |
| 203  | 4461037     | 2      | WIRE SEAL, (not shown)                                                                               |     |
| 204  | 4461038     | 2      | SPADE, (not shown)                                                                                   |     |
| 205  | 1001097129  | 1      | 60 AMP FUSE                                                                                          |     |

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FIGURE 12-9. TILTING CARRIAGE CYLINDER



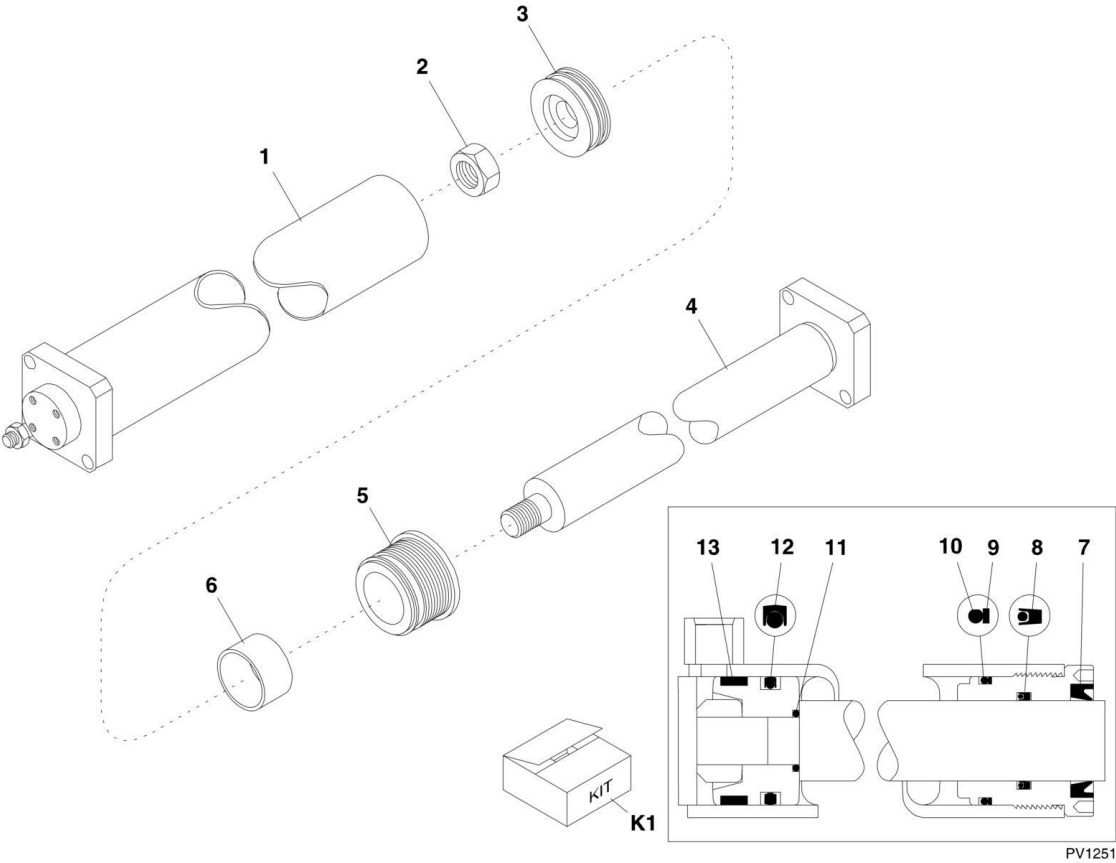


**FIGURE 12-9. TILTING CARRIAGE CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                     | REV |
|------|-------------|-----|-------------------------------------------------|-----|
|      | 10266218    | 1   | TILTING CARRIAGE CYLINDER, (includes all items) | AB  |
| 1    | 10836752    | 1   | BARREL WELDMENT                                 |     |
| 2    | 10719217    | 1   | LOCKNUT                                         |     |
| 3    | 10837051    | 1   | PISTON                                          |     |
| 4    | 10116228    | 1   | BUSHING                                         |     |
| 5    | 10725297    | 1   | ROD WELDMENT                                    |     |
| 6    | 10723778    | 1   | RETAINER, ROD BEARING                           |     |
| 7    | 10723788    | 1   | ROD BEARING                                     |     |
| 8    | 10116227    | 1   | BUSHING                                         |     |
| 9    | Kit         | 1   | WIPER                                           |     |
| 10   | Kit         | 1   | SEAL                                            |     |
| 11   | Kit         | 1   | BACK UP RING                                    |     |
| 12   | Kit         | 1   | O-RING                                          |     |
| 13   | Kit         | 1   | O-RING                                          |     |
| 14   | Kit         | 1   | PISTON SEAL                                     |     |
| K1   | 10837050    | 1   | SEAL KIT, (includes items 9 thru 14)            |     |

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FIGURE 12-10. TOWER CYLINDER



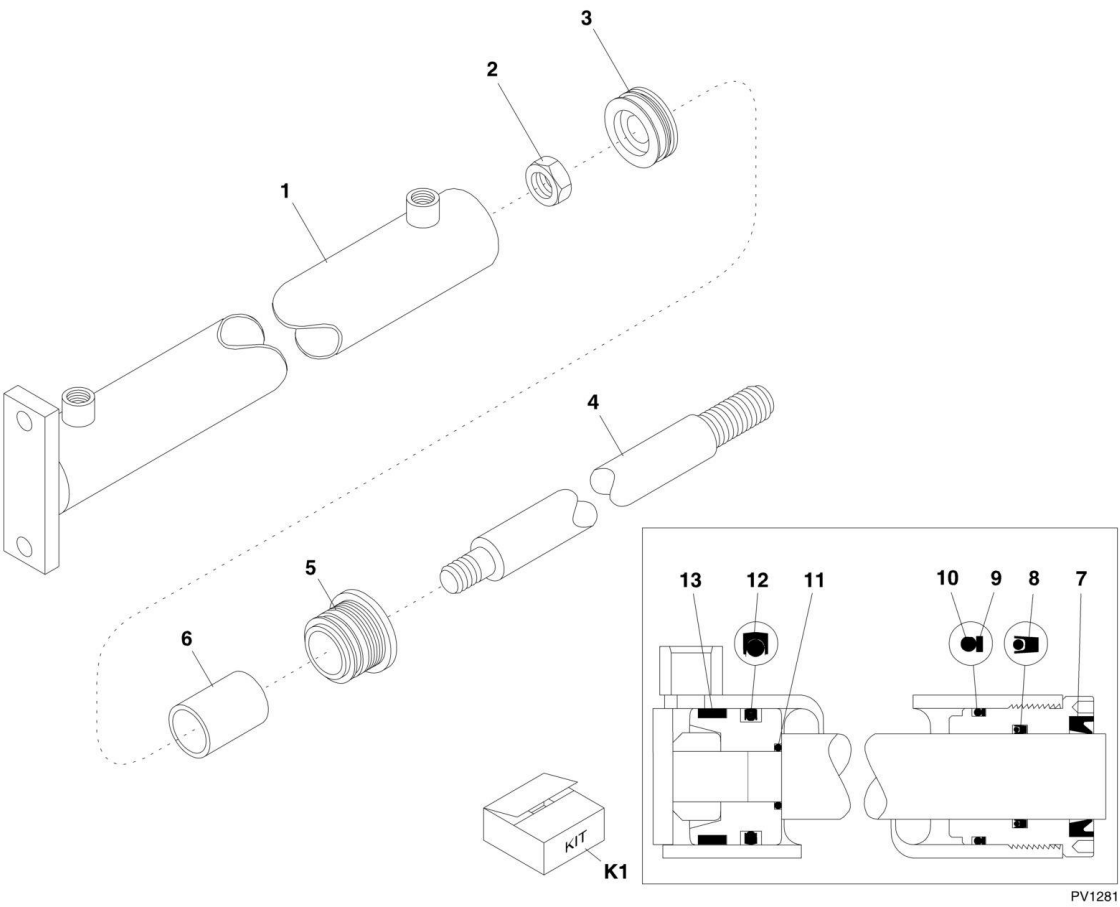
## SECTION 12 - OPTIONS

**FIGURE 12-10. TOWER CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                          | REV |
|------|-------------|-----|--------------------------------------|-----|
|      | 10234833    | 1   | TOWER CYLINDER, (includes all items) | B   |
| 1    | 10732242    | 1   | BARREL WELDMENT                      |     |
| 2    | 10719217    | 1   | LOCKNUT                              |     |
| 3    | 10733799    | 1   | PISTON                               |     |
| 4    | 10732321    | 1   | ROD WELDMENT                         |     |
| 5    | 10732332    | 1   | END GLAND                            |     |
| 6    | 10732343    | 1   | STROKE BLOCK                         |     |
| 7    | Kit         | 1   | WIPER                                |     |
| 8    | Kit         | 1   | SEAL                                 |     |
| 9    | Kit         | 1   | BACK-UP RING                         |     |
| 10   | Kit         | 1   | O-RING                               |     |
| 11   | Kit         | 1   | O-RING                               |     |
| 12   | Kit         | 1   | PISTON SEAL                          |     |
| 13   | Kit         | 1   | WEAR RING                            |     |
| K1   | 10732311    | 1   | SEAL KIT, (includes items 7 thru 13) |     |

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FIGURE 12-11. FORK POSITIONING CYLINDER



## SECTION 12 - OPTIONS

**FIGURE 12-11. FORK POSITIONING CYLINDER**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                             | REV |
|------|-------------|-----|---------------------------------------------------------|-----|
|      | 10238500    | 2   | FORK POSITIONING CYLINDER, (includes all items)         | AA  |
| 1    | 10732238    | 1   | BARREL WELDMENT                                         |     |
| 2    | 10725290    | 1   | LOCKNUT                                                 |     |
| 3    | 10732360    | 1   | PISTON                                                  |     |
| 4    | 10732355    | 1   | ROD WELDMENT                                            |     |
| 5    | 10732356    | 1   | END GLAND                                               |     |
| 6    | 10732340    | 1   | STROKE BLOCK                                            |     |
| 7    | Kit         | 1   | WIPER                                                   |     |
| 8    | Kit         | 1   | SEAL                                                    |     |
| 9    | Kit         | 1   | BACK-UP RING                                            |     |
| 10   | Kit         | 1   | O-RING                                                  |     |
| 11   | Kit         | 1   | O-RING                                                  |     |
| 12   | Kit         | 1   | PISTON SEAL                                             |     |
| 13   | Kit         | 1   | WEAR RING                                               |     |
| K1   | 10732371    | 1   | SEAL KIT, (includes items 7 thru 13)                    |     |
| N1   | Note        | Ref | <b>NOTE: QUANTITIES SHOWN ARE FOR ONE CYLINDER ONLY</b> |     |

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FIGURE 12-12. LOCKABLE ENGINE SIDE PANELS INSTALLATION

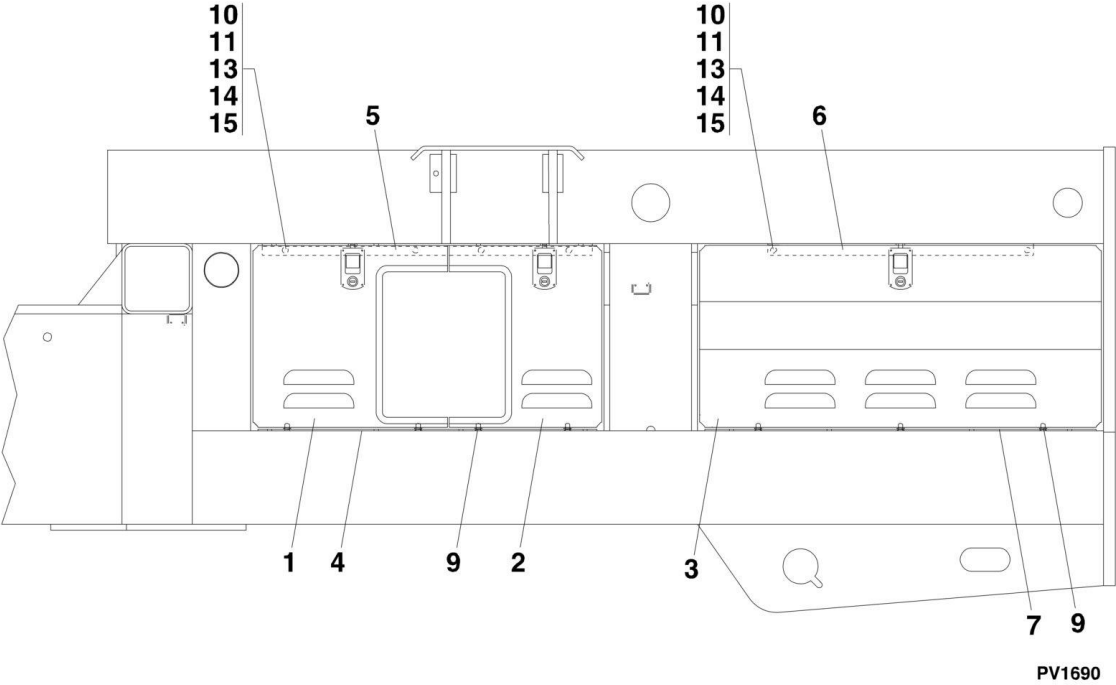
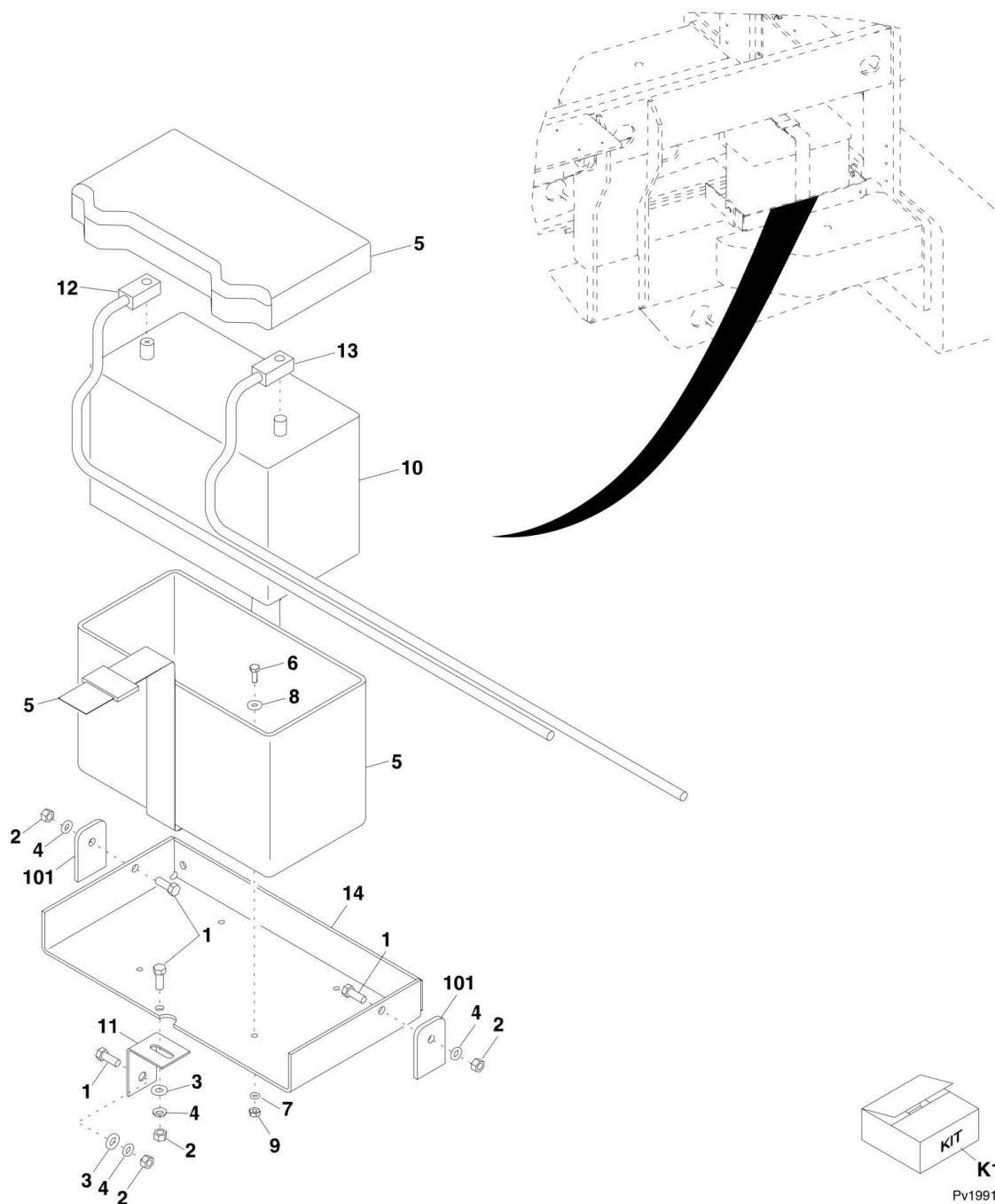


FIGURE 12-12. LOCKABLE ENGINE SIDE PANELS INSTALLATION

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                    | REV |
|------|-------------|-----|------------------------------------------------------------------------------------------------|-----|
|      | 10467043    | Ref | LOCKABLE ENGINE PANELS INSTALLATION, (not available to order, see items 1 thru 15 for service) | AB  |
| 1    | 10267044    | 1   | SIDE COVER, (front side of cylinder)                                                           |     |
| 2    | 10267049    | 1   | SIDE COVER, (rear end of cylinder)                                                             |     |
| 3    | 10338951    | 3   | SIDE COVER, (left rear and right side)                                                         |     |
| 4    | 10267051    | 1   | PIN WELDMENT PLATE, (front left)                                                               |     |
| 5    | 10267053    | 1   | UPPER MOUNTING STRIP, (front left)                                                             |     |
| 6    | 10239714    | 3   | UPPER MOUNTING STRIP                                                                           |     |
| 7    | 10239113    | 3   | PIN WELDMENT PLATE                                                                             |     |
| 9    | 10837386    | 13  | RUBBER CUSHION AND SEALING WASHER                                                              |     |
| 10   | 10837553    | 10  | RUBBER BUMPERS                                                                                 |     |
| 11   | 10837552    | 10  | DRILL JIG BUSHINGS                                                                             |     |
| 13   | 10702003    | 10  | SLOTTED ROUND HD MACHINE SCREW                                                                 |     |
| 14   | 10701500    | 10  | NUT                                                                                            |     |
| 15   | 10701302    | 10  | LOCKWASHER                                                                                     |     |

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**FIGURE 12-13. BATTERY COLD START INSTALLATION**





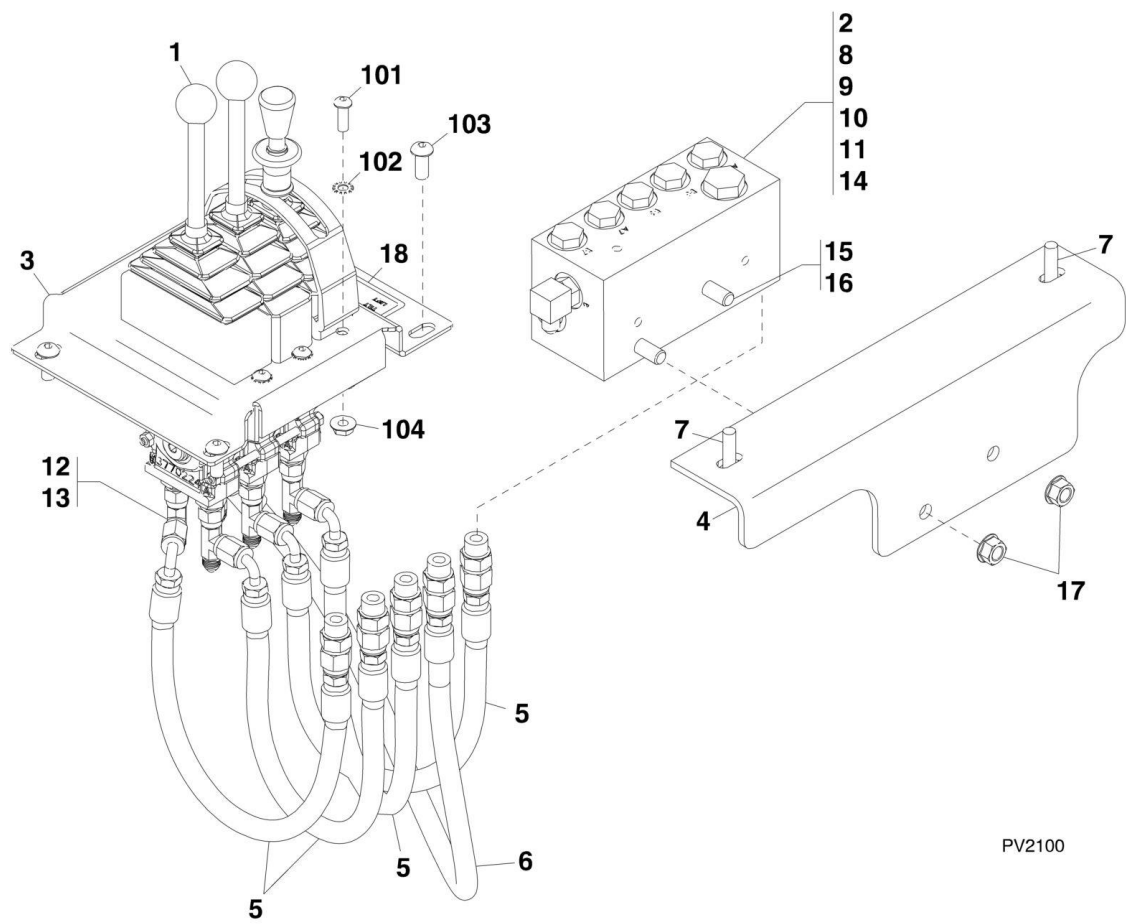
## SECTION 12 - OPTIONS

**FIGURE 12-13. BATTERY COLD START INSTALLATION**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                | REV |
|------|-------------|-----|--------------------------------------------------------------------------------------------|-----|
|      | 1001094494  | Ref | BATTERY COLD START INSTALLATION, (not available to order, see items 1 thru 15 for service) | B   |
| 1    | 0681608     | 4   | HEX HD CAPSCREW, 3/8-16X1                                                                  |     |
| 2    | 3271601     | 4   | HEX NUT, 3/8-16                                                                            |     |
| 3    | 4711600     | 2   | WASHER, 3/8                                                                                |     |
| 4    | 4761600     | 4   | LOCKWASHER, 3/8                                                                            |     |
| 5    | 10266935    | 1   | BATTERY BOX, (includes cover and strap)                                                    |     |
| 6    | 10700003    | 4   | HEX HD CAPSCREW, 1/4-20X3/4                                                                |     |
| 7    | 10701308    | 4   | LOCKWASHER, 1/4                                                                            |     |
| 8    | 10701402    | 4   | FLAT WASHER, 1/4                                                                           |     |
| 9    | 10701506    | 4   | HEX NUT, 1/4-20                                                                            |     |
| 10   | 10740075    | 1   | 12V BATTERY                                                                                |     |
| 11   | 1001094493  | 1   | ANGLE, BATTERY TRAY SUPPORT                                                                |     |
| 12   | 10135646    | 1   | POSITIVE BATTERY CABLE                                                                     |     |
| 13   | 10165724    | 1   | NEGATIVE BATTERY CABLE                                                                     |     |
| 14   | 1001094682  | 1   | TRAY, BATTERY BOX                                                                          |     |
| 15   | 1001116024  | 1   | ECU JUMPER HARNESS, (not shown)                                                            |     |
| 101  | 1001094492  | 2   | TAB, BATTERY TRAP MOUNT                                                                    |     |
| K1   | 1001094491  | Ref | BATTERY COLD START KIT, (includes items 1 thru 15 & 101)                                   | B   |

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FIGURE 12-14. FRAME LEVEL AND OUTRIGGER JOYSTICK REPAIR KIT (Prior to SN 0160048698)



PV2100

## SECTION 12 - OPTIONS

**FIGURE 12-14. FRAME LEVEL AND OUTRIGGER JOYSTICK REPAIR KIT (Prior to SN 0160048698)**

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                       | REV |
|------|-------------|-----|-----------------------------------------------------------------------------------|-----|
|      | 1001144067  | 1   | FRAME LEVEL AND OUTRIGGER JOYSTICK REPAIR KIT, (includes items 1 thru 19)         | A   |
| 1    |             | Ref | FRAME LEVEL AND OUTRIGGER JOYSTICK ASSEMBLY, (See CONTROLS SECTION for Breakdown) |     |
| 2    |             | Ref | SHUTTLE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)                   |     |
| 3    | 1001142506  | 1   | BRACKET                                                                           |     |
| 4    |             | Ref | BRACKET, (See HYDRAULIC CIRCUITS SECTION for Breakdown)                           |     |
| 5    |             | Ref | HOSE ASSEMBLY, (See HYDRAULIC CIRCUITS SECTION for Breakdown)                     |     |
| 6    |             | Ref | HOSE ASSEMBLY, (See HYDRAULIC CIRCUITS SECTION for Breakdown)                     |     |
| 7    |             | Ref | HEX HD CAPSCREW, 5/16-18X1-1/8, (See HYDRAULIC CIRCUITS SECTION for Breakdown)    |     |
| 8    |             | Ref | PLUG, (See HYDRAULIC CIRCUITS SECTION for Breakdown)                              |     |
| 9    |             | Ref | STRAIGHT FITTING, (See HYDRAULIC CIRCUITS SECTION for Breakdown)                  |     |
| 10   |             | Ref | ADAPTER, 90, (See HYDRAULIC CIRCUITS SECTION for Breakdown)                       |     |
| 11   |             | Ref | ADAPTER, 90, (See HYDRAULIC CIRCUITS SECTION for Breakdown)                       |     |
| 12   |             | Ref | STRAIGHT FITTING, (See HYDRAULIC CIRCUITS SECTION for Breakdown)                  |     |
| 13   |             | Ref | TEE FITTING, (See HYDRAULIC CIRCUITS SECTION for Breakdown)                       |     |
| 14   |             | Ref | STRAIGHT FITTING, (See HYDRAULIC CIRCUITS SECTION for Breakdown)                  |     |
| 15   |             | Ref | HEX HD CAPSCREW, 3/8-16X3-1/4, (See HYDRAULIC CIRCUITS SECTION for Breakdown)     |     |
| 16   |             | Ref | WASHER, 3/8, (See HYDRAULIC CIRCUITS SECTION for Breakdown)                       |     |
| 17   |             | Ref | FLANGE HEX NUT, 3/8-16, (See HYDRAULIC CIRCUITS SECTION for Breakdown)            |     |
| 18   |             | Ref | FRAME TILT DECAL, (See DECALS SECTION for Breakdown)                              |     |
| 19   | 31200826    | 1   | KIT INSTRUCTIONS, (not shown)                                                     |     |
| 101  | 10703196    | 6   | BUTTON HD CAPSCREW, 1/4-20X3/4                                                    |     |
| 102  | 10701357    | 6   | STAR WASHER, 1/4                                                                  |     |
| 103  | 3900210     | 4   | BUTTON HD CAPSCREW, 5/16-18X3/4                                                   |     |
| 104  | 8310382     | 6   | NUT, 1/4                                                                          |     |



**SECTION 13 - RECOMMENDED SPARE PARTS**

## SECTION 13 - RECOMMENDED SPARE PARTS

FIGURE 13-1. RECOMMENDED SPARE PARTS

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                       | REV |
|------|-------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|      | Note        | Ref | <b>Note: The following list will service fleets of machines (built to current production per date on the front cover) with repair parts which can be installed in the field. Parts from the list should be replaced when inventory is depleted to keep service parts stock supplied. For further information, contact your JLG dealer or the JLG Industries Parts Department.</b> |     |
|      |             | Ref | <b>Boom</b>                                                                                                                                                                                                                                                                                                                                                                       |     |
|      | 10837289    | 2   | Tilt Cylinder Hose (Prior to SN 0160037900, Excluding 0160037855)                                                                                                                                                                                                                                                                                                                 |     |
|      | 10837289    | 1   | Tilt Cylinder Hose (SN 0160037900 to Present, Including 0160037855)                                                                                                                                                                                                                                                                                                               |     |
|      | 10837289    | 1   | Tilt Cylinder Hose, (Second Aux) (SN 0160037900 to Present, Including 0160037855)                                                                                                                                                                                                                                                                                                 |     |
|      | 10868104    | 2   | Auxiliary Hose (Prior to SN 0160037900, Excluding 0160037855)                                                                                                                                                                                                                                                                                                                     |     |
|      | 1001099891  | 2   | Auxiliary Hose (SN 0160037900 to Present, Including 0160037855)                                                                                                                                                                                                                                                                                                                   |     |
|      | 1001099891  | 1   | Auxiliary Hose , (Second Aux) (SN 0160037900 to Present, Including 0160037855)                                                                                                                                                                                                                                                                                                    |     |
|      | 10139023    | 22  | Boom Slide Pad, 9/16X2                                                                                                                                                                                                                                                                                                                                                            |     |
|      | 10139530    | 4   | Boom Slide Pad, 1X3                                                                                                                                                                                                                                                                                                                                                               |     |
|      | 10139594    | 6   | Boom Slide Pad, 3/4X3                                                                                                                                                                                                                                                                                                                                                             |     |
|      | 10139604    | 2   | Boom Slide Pad, 7/16X2                                                                                                                                                                                                                                                                                                                                                            |     |
|      | 10139863    | 2   | Bottom Slide Pad                                                                                                                                                                                                                                                                                                                                                                  |     |
|      | 10136329    | AR  | Shim, 0.060X2                                                                                                                                                                                                                                                                                                                                                                     |     |
|      | 10138770    | AR  | Shim, 0.060X3                                                                                                                                                                                                                                                                                                                                                                     |     |
|      | 10167059    | 1   | Quick Attach Release Rod (Prior to SN 0160037900, Excluding 0160037855)                                                                                                                                                                                                                                                                                                           |     |
|      | 1001105440  | 1   | Quick Attach Lock Pin (SN 0160037900 to Present, Including 0160037855)                                                                                                                                                                                                                                                                                                            |     |
|      |             | Ref | <b>Engine</b>                                                                                                                                                                                                                                                                                                                                                                     |     |
|      | 2915065     | 1   | Engine Filter Kit, 250 Hour (SN 0160009654 through 0160040407)                                                                                                                                                                                                                                                                                                                    |     |
|      | 1001128966  | 1   | Engine Filter Kit, 250 Hour (SN 0160040413 to Present, Including 0160037824 and 0160038521)                                                                                                                                                                                                                                                                                       |     |
|      | 2915066     | 1   | Engine Filter Kit, 1000 Hour (SN 0160009654 through 0160040407)                                                                                                                                                                                                                                                                                                                   |     |
|      | 1001128965  | 1   | Engine Filter Kit, 1000 Hour (SN 0160040413 to Present, Including 0160037824 and 0160038521)                                                                                                                                                                                                                                                                                      |     |
|      | 10712182    | 1   | Fuel Cap                                                                                                                                                                                                                                                                                                                                                                          |     |
|      | 10728734    | 1   | Fan (SN 0160009654 through 0160040407)                                                                                                                                                                                                                                                                                                                                            |     |
|      | 2060045     | 1   | Fan (SN 0160040413 to Present, Including 0160037824 and 0160038521)                                                                                                                                                                                                                                                                                                               |     |
|      | 10700207    | 1   | Fan Spacer (SN 0160009654 through 0160040407)                                                                                                                                                                                                                                                                                                                                     |     |
|      | 70021491    | 1   | Fan Belt (SN 0160018507 through 0160040407, Excluding 0160037824 and 0160038521)                                                                                                                                                                                                                                                                                                  |     |
|      | 70021807    | 1   | Fan Belt (SN 0160040413 to Present, Including 0160037824 and 0160038521)                                                                                                                                                                                                                                                                                                          |     |
|      |             | Ref | <b>Drive Train</b>                                                                                                                                                                                                                                                                                                                                                                |     |
|      | 8223049     | 1   | Selector Transmission Control                                                                                                                                                                                                                                                                                                                                                     |     |
|      | 1319726     | 1   | Transmission Filter                                                                                                                                                                                                                                                                                                                                                               |     |
|      | 1319433     | 4   | Wheel End Bushing                                                                                                                                                                                                                                                                                                                                                                 |     |
|      | 7027211     | 4   | Wheel End Seal                                                                                                                                                                                                                                                                                                                                                                    |     |

## SECTION 13 - RECOMMENDED SPARE PARTS

| ITEM | PART NUMBER | QTY | DESCRIPTION                                                                                   | REV |
|------|-------------|-----|-----------------------------------------------------------------------------------------------|-----|
|      | 80304173    | 4   | Wheel Hub Seal                                                                                |     |
|      | 1319472     | 8   | Wheel Hub Bearing                                                                             |     |
|      | 1321155     | 2   | Front Axle Wheel Hub O-Ring                                                                   |     |
|      | 1321155     | 2   | Rear Axle Wheel Hub O-Ring                                                                    |     |
|      | 8035981     | 2   | Steer Cylinder Seal Kit, (Prior to Front Axle SN 958841 and Rear Axle SN 955235)              |     |
|      | 70021495    | 2   | Steer Cylinder Seal Kit, (Front Axle SN 958841 to Present and Rear Axle SN 955235 to Present) |     |
|      | 7026911     | 2   | Universal Joint Kit                                                                           |     |
|      | 91474035    | 1   | Universal Joint Kit                                                                           |     |
|      |             | Ref | <b>Hydraulic System</b>                                                                       |     |
|      | 10239817    | 2   | Joystick <b>(Prior to SN 0160048698)</b>                                                      |     |
|      | 1001141420  | 2   | Joystick <b>(SN 0160048698 to Present)</b>                                                    |     |
|      | 10732693    | 2   | Joystick Handle Assy <b>(Prior to SN 0160048698)</b>                                          |     |
|      | 70024556    | 2   | Base Assembly <b>(SN 0160048698 to Present)</b>                                               |     |
|      | 8036562     | 1   | Front Carriage Tilt Cylinder Seal Kit                                                         |     |
|      | 8036561     | 2   | Rear Carriage Tilt Cylinder Seal Kit                                                          |     |
|      | 8036557     | 1   | Frame Tilt Cylinder Seal Kit                                                                  |     |
|      | 7028622     | 2   | Hoist Cylinder Seal Kit                                                                       |     |
|      | 8036563     | 1   | Boom Extension Cylinder Seal Kit                                                              |     |
|      | 1102019     | 1   | Transfer Cylinder Seal Kit                                                                    |     |
|      | 1102016     | 2   | Outrigger Cylinder Seal Kit                                                                   |     |
|      | 8036557     | 1   | Rear Stabilizer Cylinder Seal Kit                                                             |     |
|      | 10266450    | 1   | Pressure Filter Element                                                                       |     |
|      | 1100987     | 1   | Inline Filter Element                                                                         |     |
|      | 10727810    | 1   | Hydraulic Filter Element                                                                      |     |
|      | 10238912    | 1   | Tank Strainer                                                                                 |     |
|      | 10139022    | 1   | Filler/Breather Cap                                                                           |     |
|      | 10727809    | 1   | Fluid Level Sight Gauge                                                                       |     |
|      |             | Ref | <b>Electrical</b>                                                                             |     |
|      | 10723222    | 1   | Engine Water Temp Sender                                                                      |     |
|      | 10719472    | 1   | Engine Oil Temp Sender                                                                        |     |
|      | 91563122    | 1   | Engine Oil Pressure Switch                                                                    |     |
|      | 10723217    | 1   | Engine Oil Pressure Sender                                                                    |     |
|      | 10729317    | 1   | Fuel Level Sender                                                                             |     |
|      | 8270621     | 1   | Backup Alarm                                                                                  |     |
|      | 1101202     | 1   | Ignition Switch                                                                               |     |
|      | 7026922     | 1   | Alternator <b>(SN 0160009654 through 0160040407)</b>                                          |     |
|      | 70023287    | 1   | Alternator <b>(SN 0160040413 to Present, Including 0160037824 and 0160038521)</b>             |     |
|      | 7026921     | 1   | Starter <b>(SN 0160009654 through 0160040407)</b>                                             |     |
|      | 70022640    | 1   | Starter <b>(Prior to SN 0160050882)</b>                                                       |     |
|      | 1001128594  | 1   | Starter <b>(SN 0160050882 to Present)</b>                                                     |     |
|      | 10268663    | 1   | Horn                                                                                          |     |
|      |             | Ref | <b>Miscellaneous</b>                                                                          |     |
|      | 1101203     | 1   | Ignition Key                                                                                  |     |
|      | 8342813     | 1   | Door Key                                                                                      |     |
|      | 80904003    | 1   | Hydraulic Test Kit                                                                            |     |
|      | 31200070    | 1   | Operator and Safety Manual <b>(Prior to SN 0160037900)</b>                                    |     |
|      | 31200608    | 1   | Operation and Safety Manual <b>(SN 0160037900 to Present)</b>                                 |     |
|      | 31200079    | 1   | Service Manual                                                                                |     |





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