



Illustrated Parts Manual

Models ***G10-55A*** ***G12-55A***

SN 0160045636 to Present including
0160045082, 0160045094,
0160045209, 0160045295,
0160045296 & 0160045449

31200728

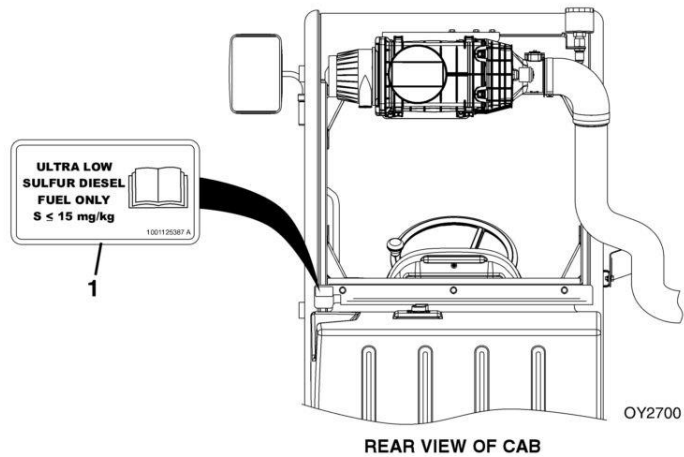
Revised
September 28, 2018 - Rev O



EFFECTIVITY PAGE

May 1, 2012 - A - Original Issue of Manual
January 4, 2013 - B - Revised Manual
January 29, 2013 - C - Revised Manual
April 3, 2013 - D - Revised Manual
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January 10, 2014 - F - Revised Manual
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October 28, 2016 - J - Revised Manual
February 28, 2017 - K - Revised Manual
May 12, 2017 - L - Revised Manual
September 6, 2017 - M - Revised Manual
April 13, 2018 - N - Revised Manual
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Machine Configuration

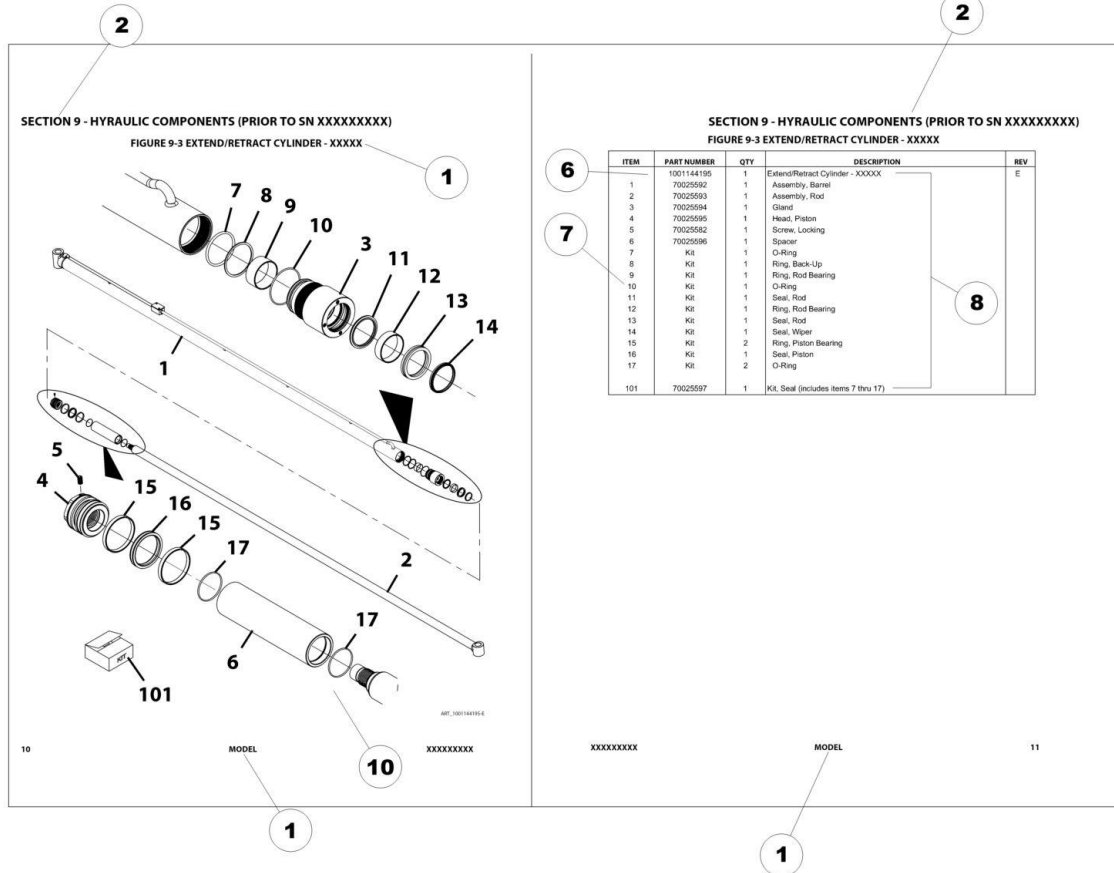


Two configurations of each machine are included in this manual. Determine if machine is equipped with Ultra Low Sulfur Fuel Decal (1).

If equipped with the Ultra Low Sulfur decal, all specific references to this machine configuration will be referred to as Ultra Low Sulfur (ULS) from this point forward.

If not equipped with the Ultra Low Sulfur decal, all specific references to this machine configuration will be referred to as Low Sulfur (LS) from this point forward.

GENERAL INFORMATION



1) MACHINE IDENTIFICATION

Machines are identified by model and in some cases a combination of models, serial number (SN) or regional standard (e.g. ANSI, CE, CSA, AUS). Components may also be identified by SN or manufacturer. Common components that may be identified by these characteristics are attachments, engine, transmission and hydraulic components.

2) PARTS MANUAL ORGANIZATION

Product information in this manual is organized under section titles. Frame, Engine and Electrical are a few examples. Each section is organized by Figure and page number. The information within the Figure is then organized by item number, part number, description and corresponding illustration(s).

3) TABLE OF CONTENTS (NOT SHOWN)

A table of contents (TOC) is found toward the beginning of the manual. Figure number, description and page number are provided for quick reference to the page containing the related information.

4) RECOMMENDED SPARE PARTS (NOT SHOWN)

The Recommended Spare Parts List, located near the end of the manual, reference most frequently used maintenance parts.

5) PART NUMBER INDEX (NOT SHOWN)

A numerical index listing all part numbers and the corresponding page number(s) appears at the back of the manual.

6) NON-SERVICED PARTS

In some instances, it is necessary to display non-serviced parts, assemblies or installations. In the case of assemblies and installations there will be a Ref in the QTY column and a note after the item description stating what is available for service within. In the case of parts that are not available for service within assemblies or components, there will be a NSS (Not Sold Separately) listed in the part number column of the manual.

7) PARTS LIST ITEM NUMBERS

Numbers shown in the item column correspond to numbers used in the associated illustration(s). Item numbers which are missing from sequence and are not shown in the illustration(s) are not used on that page.

8) INDENTED PARTS DESCRIPTION

An indented part description is included in the item under which it is indented.

9) ABBREVIATION AND SYMBOLS

AC.....	Alternating Current
A/C.....	Air Conditioning
ADE.....	Advanced Design Electronics
AG.....	Agriculture
AMP.....	Amperage
ANSI.....	American National Standards Institute
AR.....	As Required
ASSY.....	Assembly
AUS.....	Australia
AUX.....	Auxiliary
AWG.....	American Wire Gauge
CAC.....	Charge Air Cooler
CE.....	European Conformity
CM.....	Centimeter
CONST.....	Construction
CSA.....	Canadian Standards Association
DEF.....	Diesel Exhaust Fluid
DIA.....	Diameter
DC.....	Direct Current
DTZ.....	Decentralized Transmission Zeros
ECU.....	Electronic Control Unit
EMS.....	Emergency Stop
FNR.....	Forward Neutral Reverse
FT.....	Foot
GA.....	Gauge
GR.....	Grade
HBP.....	High Boom Pivot
HHP.....	High Horse Power
HOC.....	Hydraulic Oil Cooler
HRC.....	High Rated Countries
HVAC.....	Heating Ventilating, and Air Conditioning
ID.....	Inside Diameter
IN.....	Inch
ISO.....	International Organization for Standards
ITSDF.....	Industrial Truck Standards Development Foundation
JIC.....	Joint Industry Council
KG.....	Kilogram
KW.....	Kilowatt
L.....	Liter
LB.....	Pound
LBP.....	Low Boom Pivot

LCD.....	Liquid Crystal Display
LED.....	Light Emitting Diode
LH.....	Left Hand
LHD.....	Left Hand Drive
LHP.....	Low Horse Power
LMIS.....	Load Management Indicator System
LRC.....	Low Rated Countries
LS.....	Low Sulfur
LSI.....	Load Stability Indicator
LSS.....	Load Sensing System
M³.....	Cubic Meter
MA.....	Milliamp
M(m).....	Metric/Meter
MM.....	Millimeter
N.....	Newton
NACD.....	North America Construction Division
NLA.....	No Longer Available
NSS.....	Not Sold Separately
OD.....	Outside Diameter
ORB.....	O-Ring Boss
ORFS.....	O-Ring Face Seal
OZ.....	Ounce
PR.....	Ply Rating
QT.....	Quart
QTY.....	Quantity
REF.....	Reference
REV.....	Revision
RH.....	Right Hand
RHD.....	Right Hand Drive
RHCO.....	Remote Hydraulic Oil Cooler
RUS.....	Russia
SAE.....	Society of Automotive Engineers
SAHR.....	Spring Applied Hydraulically Released
SN.....	Serial Number
SPD.....	Speed
TLU.....	Torque Look Up
UGM.....	Universal Ground Module
V.....	Volts
W.....	Watts
#.....	Number

10) ILLUSTRATION REFERENCE LETTERS

When necessary, illustrations may contain reference letters that are intended to track information from one point to another in the illustration such as harnesses and hoses or any other information that has been separated in the illustration.

Note: Due to continuous product improvements, JLG Industries, Inc. reserves the right to make specification changes without prior notification. Contact JLG Industries, Inc. for updated information.

TABLE OF CONTENTS

SECTION 1 - FRAME AND ATTACHING PARTS.....	13
FIGURE 1-1. FRAME AND ATTACHING PARTS	14
FIGURE 1-2. COVERS.....	16
FIGURE 1-3. OUTRIGGER INSTALLATION.....	20
FIGURE 1-4. PINTLE HOOK.....	22
SECTION 2 - BOOM	25
FIGURE 2-1. BOOM INSTALLATION.....	26
FIGURE 2-2. FIRST BOOM SECTION (G10-55A)	28
FIGURE 2-3. FIRST BOOM SECTION (G12-55A)	30
FIGURE 2-4. SECOND BOOM SECTION (G10-55A)	32
FIGURE 2-5. SECOND BOOM SECTION (G12-55A)	36
FIGURE 2-6. THIRD BOOM SECTION (G10-55A).....	40
FIGURE 2-7. THIRD BOOM SECTION (G12-55A).....	44
FIGURE 2-8. FOURTH BOOM SECTION (G10-55A).....	48
FIGURE 2-9. FOURTH BOOM SECTION (G12-55A).....	50
FIGURE 2-10. EXTEND CHAINS (G10-55A)	52
FIGURE 2-11. EXTEND CHAINS (G12-55A)	54
FIGURE 2-12. RETRACT CHAINS (G10-55A)	56
FIGURE 2-13. RETRACT CHAINS (G12-55A).....	58
FIGURE 2-14. MANUAL QUICK ATTACH	62
SECTION 3 - ATTACHMENTS	65
FIGURE 3-1. STANDARD CARRIAGE (Prior to SN 0160052000).....	66
FIGURE 3-2. STANDARD CARRIAGE (SN 0160052000 to Present)	68
FIGURE 3-3. SIDE TILT CARRIAGE.....	70
FIGURE 3-4. 50 IN SIDE SHIFT CARRIAGE	72
FIGURE 3-5. DUAL FORK POSITIONING CARRIAGE	74
FIGURE 3-6. 90, SWING CARRIAGE	76
FIGURE 3-7. 180, SWING CARRIAGE	78
FIGURE 3-8. SHEET HANDLER CARRIAGE	82
FIGURE 3-9. FORKS AND ATTACHING PARTS.....	84
FIGURE 3-10. FORK MOUNTED PLATFORM.....	86
FIGURE 3-11. FORK MOUNTED HOOK	88
FIGURE 3-12. GENERAL PURPOSE BUCKET	90
FIGURE 3-13. GRAPPLE BUCKET.....	92
FIGURE 3-14. TRUSS BOOM.....	94
FIGURE 3-15. TRUSS BOOM WITH WINCH.....	96
FIGURE 3-16. ADJUSTABLE TRUSS BOOM.....	98
FIGURE 3-17. 8 FOOT STANDARD MAST	100
FIGURE 3-18. 8 FT SIDE TILT ELECTRIC MAST	104
SECTION 4 - ENGINE AND ATTACHING PARTS	109
FIGURE 4-1. ENGINE INSTALLATION.....	110
FIGURE 4-2. ENGINE	112

TABLE OF CONTENTS

FIGURE 4-3. ENGINE.....	114
FIGURE 4-4. FUEL TANK AND LINES.....	116
FIGURE 4-5. RADIATOR INSTALLATION.....	118
FIGURE 4-6. AIR CLEANER INSTALLATION	122
FIGURE 4-7. AIR CLEANER INSTALLATION	124
FIGURE 4-8. EXHAUST INSTALLATION	126
FIGURE 4-9. EXHAUST INSTALLATION	128
SECTION 5 - DRIVE TRAIN	131
FIGURE 5-1. DRIVETRAIN COMPONENTS (Prior to SN 0160054609).....	132
FIGURE 5-2. DRIVETRAIN COMPONENTS (SN 0160054609 to Present).....	136
FIGURE 5-3. FRONT AXLE	140
FIGURE 5-4. FRONT AXLE (SN 0160063540 to Present).....	142
FIGURE 5-5. FRONT AXLE - CENTRAL HOUSING AND STEERING (Prior to SN 0160046229, SN 0160046235 through 0160063539, Excluding 0160045209, 0160045296, 0160045449 and 0160045636)	144
FIGURE 5-6. FRONT AXLE - CENTRAL HOUSING AND STEERING (SN 0160046229 through 0160046235, Including 0160045209, 0160045296, 0160045449 and 0160045636).....	146
FIGURE 5-7. FRONT AXLE - CENTRAL HOUSING (SN 0160063540 to Present)	148
FIGURE 5-8. FRONT AXLE - DIFFERENTIAL	150
FIGURE 5-9. FRONT AXLE - DIFFERENTIAL (SN 0160063540 to Present)	152
FIGURE 5-10. FRONT AXLE - HUB REDUCTION (Prior to SN 0160046229, SN 0160046235 through 0160063539, Excluding 0160045209, 0160045296, 0160045449 and 0160045636).....	154
FIGURE 5-11. FRONT AXLE - HUB REDUCTION (SN 0160046229 through 0160046235, Including 0160045209, 0160045296, 0160045449 and 0160045636)	158
FIGURE 5-12. FRONT AXLE - HUB REDUCTION (SN 0160063540 to Present).....	162
FIGURE 5-13. FRONT AXLE - BRAKES (Prior to SN 0160046229, SN 0160046235 through 0160063539, Excluding 0160045209, 0160045296, 0160045449 and 0160045636).....	164
FIGURE 5-14. FRONT AXLE - BRAKES (SN 0160046229 through 0160046235, Including 0160045209, 0160045296, 0160045449 and 0160045636)	166
FIGURE 5-15. FRONT AXLE - BRAKES (SN 0160063540 to Present)	168
FIGURE 5-16. FRONT AXLE - STEERING (SN 0160063540 to Present)	170
FIGURE 5-17. FRONT AXLE - TRUNION (SN 0160063540 to Present)	172
FIGURE 5-18. REAR AXLE	174
FIGURE 5-19. REAR AXLE (SN 0160063541 to Present)	176
FIGURE 5-20. REAR AXLE - CENTRAL HOUSING AND STEERING (Prior to SN 0160054609)	178
FIGURE 5-21. REAR AXLE - CENTRAL HOUSING AND STEERING (SN 0160054609 through 0160063540)	180
FIGURE 5-22. REAR AXLE - CENTRAL HOUSING (SN 0160063541 to Present)	182
FIGURE 5-23. REAR AXLE - DIFFERENTIAL (Prior to SN 0160054609)	184
FIGURE 5-24. REAR AXLE - DIFFERENTIAL (SN 0160054609 through 0160063540).....	186
FIGURE 5-25. REAR AXLE - DIFFERENTIAL (SN 0160063541 to Present)	188
FIGURE 5-26. REAR AXLE - HUB REDUCTION (Prior to SN 0160054609).....	190
FIGURE 5-27. REAR AXLE - HUB REDUCTION (SN 0160054609 through 0160063540)	192
FIGURE 5-28. REAR AXLE - HUB REDUCTION (SN 0160063541 to Present)	194
FIGURE 5-29. REAR AXLE - BRAKES (Prior to SN 0160054609)	196
FIGURE 5-30. REAR AXLE - BRAKES (SN 0160054609 through 0160063540).....	198
FIGURE 5-31. REAR AXLE - BRAKES (SN 0160063541 to Present)	200
FIGURE 5-32. REAR AXLE - STEERING (SN 0160063541 to Present).....	202
FIGURE 5-33. REAR AXLE - TRUNION (SN 0160063541 to Present).....	204

TABLE OF CONTENTS

FIGURE 5-34. REAR AXLE - DIFFERENTIAL ASSEMBLY (SN 0160063541 to Present).....	206
FIGURE 5-35. REAR AXLE - RING GEAR SUPPORT KIT (SN 0160063541 to Present)	208
FIGURE 5-36. REAR AXLE - PLANET GEAR CARRIER KIT (SN 0160063541 to Present).....	210
FIGURE 5-37. REAR AXLE - SUPPORT ASSEMBLY (SN 0160063541 to Present).....	212
FIGURE 5-38. TRANSMISSION.....	214
FIGURE 5-39. TRANSMISSION - CONVERTER AND INPUT	216
FIGURE 5-40. TRANSMISSION - GEARBOX HOUSING	218
FIGURE 5-41. TRANSMISSION - FORWARD GEAR GROUP	220
FIGURE 5-42. TRANSMISSION - REVERSE GEAR GROUP	222
FIGURE 5-43. TRANSMISSION - 1ST SHAFT GROUP	224
FIGURE 5-44. TRANSMISSION - 2ND SHAFT GROUP.....	226
FIGURE 5-45. TRANSMISSION - 3RD SHAFT GROUP.....	228
FIGURE 5-46. TRANSMISSION - 4TH SHAFT GROUP	230
FIGURE 5-47. TRANSMISSION - POWER TAKE-OFF	232
FIGURE 5-48. TRANSMISSION - CONTROL UNIT AND PRESSURE REGULATOR	234
FIGURE 5-49. TRANSMISSION - GEARSHIFT SYSTEM	236
FIGURE 5-50. TRANSMISSION - OIL PUMP, FILTER AND DIPSTICK	238
FIGURE 5-51. TRANSMISSION - TRANSFER BOX.....	240
FIGURE 5-52. WHEEL ASSEMBLY	242
FIGURE 5-53. FENDER INSTALLATION (Prior to SN 0160052014, SN 0160058370 to Present)	244
FIGURE 5-54. FENDER INSTALLATION (SN 0160052014 through 0160058369).....	246
SECTION 6 - CAB.....	249
FIGURE 6-1. CAB INSTALLATION	250
FIGURE 6-2. CAB ASSEMBLY	254
FIGURE 6-3. CAB DOOR.....	258
FIGURE 6-4. CAB INTERIOR	260
FIGURE 6-5. WIPERS.....	262
FIGURE 6-6. SEATS	264
FIGURE 6-7. HEATER INSTALLATION	266
FIGURE 6-8. AIR CONDITIONING INSTALLATION	270
SECTION 7 - CONTROLS	275
FIGURE 7-1. BRAKE.....	276
FIGURE 7-2. ACCELERATOR	278
FIGURE 7-3. STEERING COLUMN	280
FIGURE 7-4. BOOM JOYSTICK.....	282
FIGURE 7-5. OUTRIGGER AND FRAME LEVEL/AUXILIARY CONTROLLER	284
SECTION 8 - HYDRAULIC CIRCUITS.....	287
FIGURE 8-1. SUPPLY CIRCUIT	288
FIGURE 8-2. DUMP CIRCUIT	292
FIGURE 8-3. STEER SELECT CIRCUIT	294
FIGURE 8-4. SERVICE BRAKE CIRCUIT.....	296
FIGURE 8-5. BOOM JOYSTICK CIRCUIT	298
FIGURE 8-6. FRAME LEVEL/AUXILIARY CONTROLLER	300

TABLE OF CONTENTS

FIGURE 8-7. OUTRIGGER CONTROLLER	302
FIGURE 8-8. LIFT CYLINDER CIRCUIT.....	304
FIGURE 8-9. EXTEND/RETRACT CYLINDER CIRCUIT.....	306
FIGURE 8-10. TILT CYLINDER AND COMPENSATION CYLINDER CIRCUIT	308
FIGURE 8-11. BOOM HYDRAULIC ASSEMBLY.....	310
FIGURE 8-12. AUXILIARY HYDRAULIC CIRCUIT	312
FIGURE 8-13. FRAME LEVEL CIRCUIT	316
FIGURE 8-14. OUTRIGGER CIRCUIT	318
FIGURE 8-15. QUICK ATTACH INSTALLATION	320
SECTION 9 - HYDRAULIC COMPONENTS	323
FIGURE 9-1. LIFT CYLINDER AND HARDWARE.....	324
FIGURE 9-2. LIFT CYLINDER AND HARDWARE.....	326
FIGURE 9-3. EXTEND/RETRACT CYLINDER AND HARDWARE.....	328
FIGURE 9-4. TILT CYLINDER AND HARDWARE.....	330
FIGURE 9-5. COMPENSATION CYLINDER AND HARDWARE	332
FIGURE 9-6. FRAME LEVEL CYLINDER AND HARDWARE	334
FIGURE 9-7. OUTRIGGER CYLINDER AND HARDWARE	336
FIGURE 9-8. STABILIZER CYLINDER AND HARDWARE.....	338
FIGURE 9-9. SIDE TILT CARRIAGE CYLINDER (Prior to SN 0160066379)	340
FIGURE 9-10. SIDE TILT CARRIAGE CYLINDER (SN 0160066379 to Present).....	342
FIGURE 9-11. 50 IN SIDE SHIFT CARRIAGE CYLINDER.....	344
FIGURE 9-12. SWING CARRIAGE CYLINDER.....	346
FIGURE 9-13. GRAPPLE BUCKET CYLINDER	350
FIGURE 9-14. MAIN CONTROL VALVE.....	352
FIGURE 9-15. PISTON PUMP	354
FIGURE 9-16. HYDRAULIC TANK	358
FIGURE 9-17. STEER SELECT VALVE	360
FIGURE 9-18. BRAKE VALVE.....	362
FIGURE 9-19. HYDRAULIC MANIFOLD VALVE.....	366
FIGURE 9-20. DECOMPRESSION VALVE	368
FIGURE 9-21. QUICK ATTACH VAVLE	370
FIGURE 9-22. QUICK ATTACH INSTALLATION, G SERIES.....	372
FIGURE 9-23. CYLINDER - QUICK ATTACH ASSEMBLY	374
FIGURE 9-24. QUICK COUPLER CYLINDER.....	376
FIGURE 9-25. DIVERTOR VALVE.....	378
SECTION 10 - ELECTRICAL.....	381
FIGURE 10-1. ENGINE COMPARTMENT ELECTRICAL INSTALLATION	382
FIGURE 10-2. ENGINE COMPARTMENT ELECTRICAL INSTALLATION	386
FIGURE 10-3. ARCTIC PACKAGE INSTALLATION.....	390
FIGURE 10-4. BOOM AND FRAME ELECTRICAL INSTALLATION	392
FIGURE 10-5. CAB ELECTRICAL INSTALLATION.....	396
FIGURE 10-6. CAB SWITCHES	398
FIGURE 10-7. CLEARSKY INSTALLATION	400
FIGURE 10-8. WORK LIGHTS (Prior to SN 0160059446).....	402

TABLE OF CONTENTS

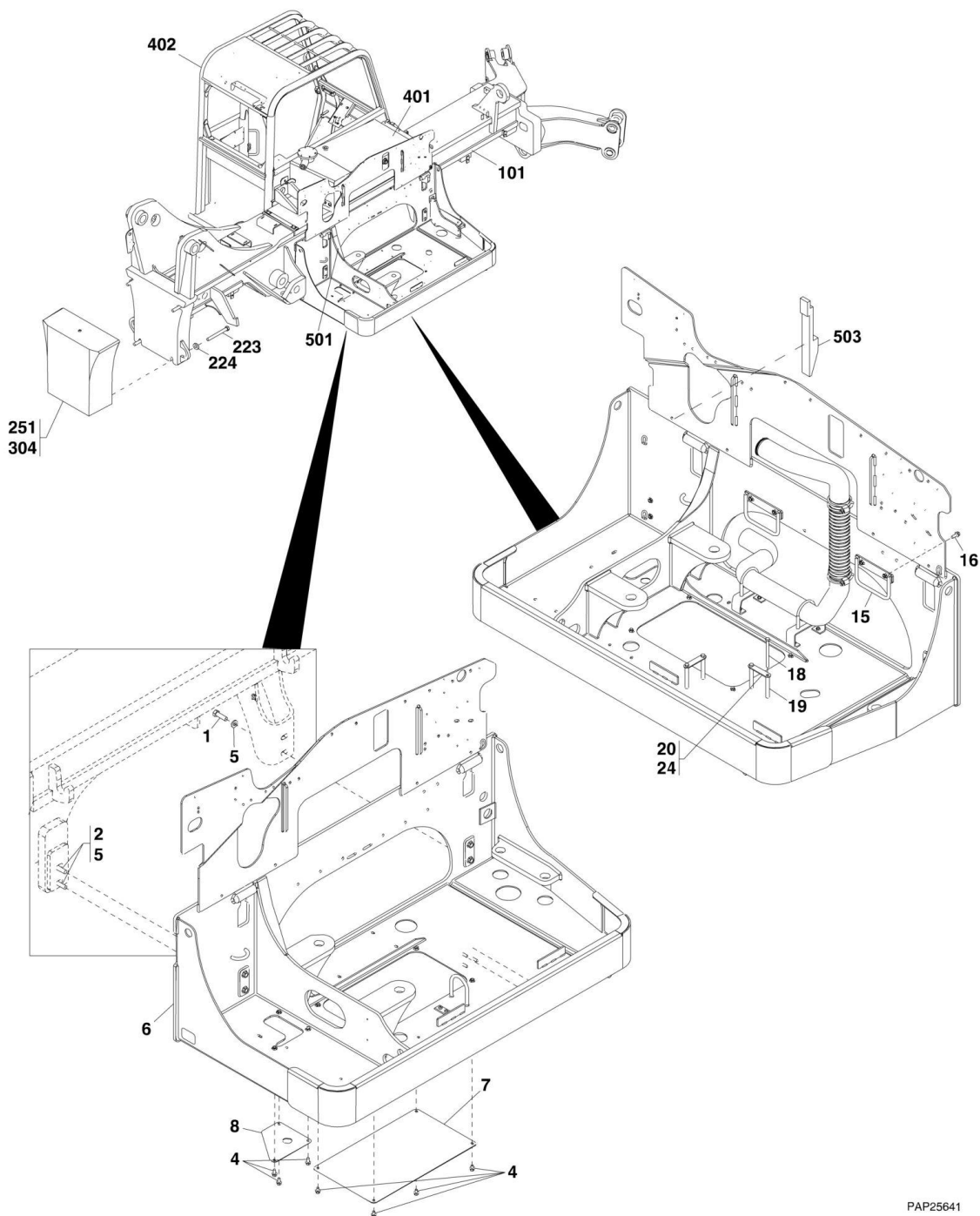
FIGURE 10-9. WORK LIGHTS (SN 0160059446 to Present)	406
FIGURE 10-10. REVERSE SENSING SYSTEM INSTALLATION.....	408
FIGURE 10-11. DRIVE LIGHTS	410
FIGURE 10-12. ENGINE HARNESS	412
FIGURE 10-13. ENGINE HARNESS	416
FIGURE 10-14. TRANSMISSION HARNESS	420
FIGURE 10-15. FRAME HARNESS	422
FIGURE 10-16. VEC OPTIONS HARNESS	426
FIGURE 10-17. TRANSMISSION RELAY HARNESS.....	430
FIGURE 10-18. ENCLOSED CAB OPTIONS HARNESS.....	432
FIGURE 10-19. DASH HARNESS.....	434
FIGURE 10-20. INSTRUMENT PANEL HARNESS.....	436
FIGURE 10-21. FRAME ROAD LIGHT HARNESS	438
FIGURE 10-22. BOOM WORK LIGHT HARNESS	440
FIGURE 10-23. CAB ROAD LIGHT HARNESS	442
FIGURE 10-24. CAB WORK LIGHT HARNESS (Prior to SN 0160059446).....	444
FIGURE 10-25. CAB WORK LIGHT HARNESS (SN 0160059446 to Present)	446
FIGURE 10-26. CAB WORK LIGHT HARNESS.....	448
FIGURE 10-27. A/C HARNESS.....	450
FIGURE 10-28. VEC HARNESS	452
FIGURE 10-29. TELEMATICS INSTALLATION, UNITED RENTALS, (WITH SHORT JUMPER HARNESS)	454
FIGURE 10-30. TELEMATICS INSTALLATION, UNITED RENTALS, (WITH LONG JUMPER HARNESS)	456
FIGURE 10-31. REVERSE SENSOR HARNESS.....	458
SECTION 11 - DECALS.....	461
FIGURE 11-1. CAB AND FRAME DECALS	462
FIGURE 11-2. BOOM DECALS.....	466
SECTION 12 - RECOMMENDED SPARE PARTS	469
FIGURE 12-1. RECOMMENDED SPARE PARTS	470
PART NUMBER INDEX	473

SECTION 1 - FRAME AND ATTACHING PARTS

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FIGURE 1-1. FRAME AND ATTACHING PARTS



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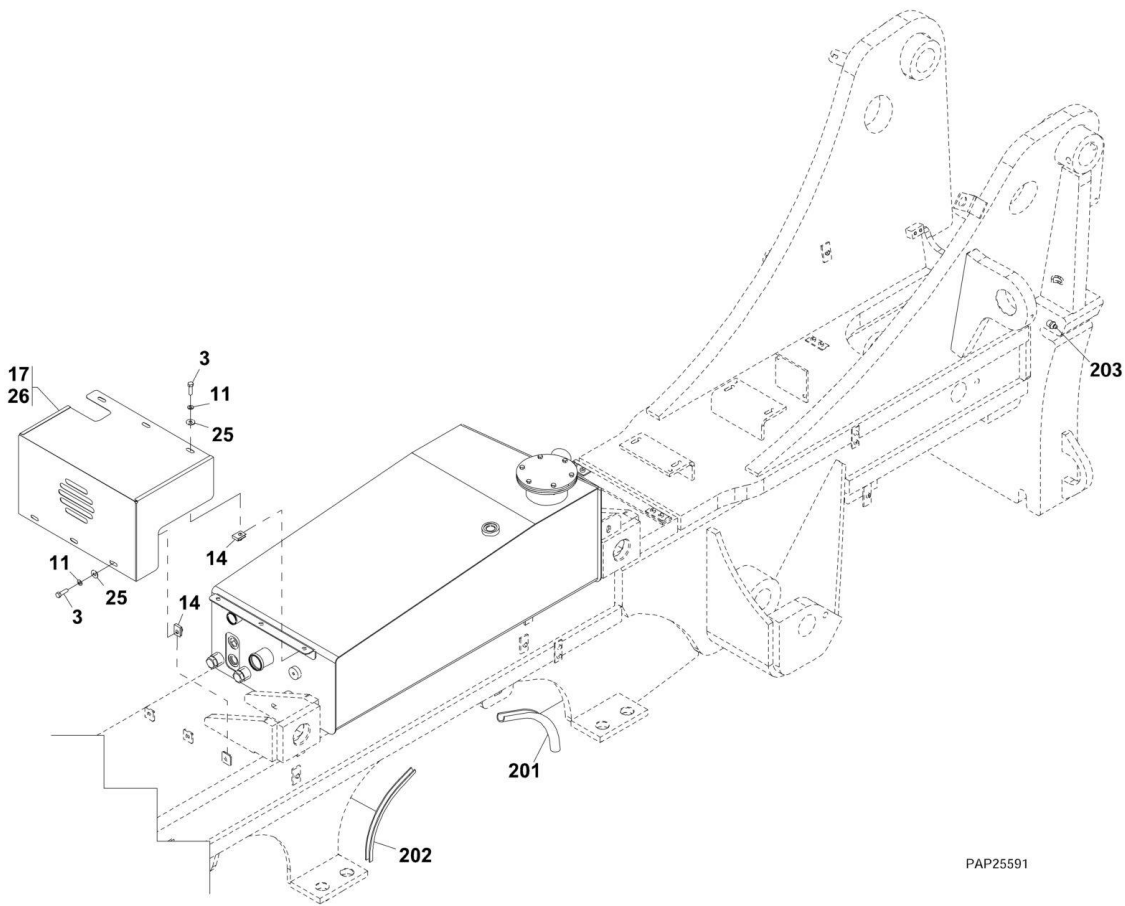
SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-1. FRAME AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001130125	Ref	ENGINE POD INSTALLATION, (if equipped for ULS), (not available to order, see items 1 thru 24 for service)	H
	1001136089	Ref	ENGINE POD INSTALLATION, (if equipped for LS), (not available to order, see items 1 thru 24 for service)	E
1	0682018	2	HEX HD CAPSCREW, 5/8-11X2-1/4	
2	0682032	2	HEX HD CAPSCREW, 5/8-11X4	
4	0811606	7	SCREW, 3/8-16X3/4	
5	4892000	4	WASHER, 5/8	
6	1001121031	1	POD WELDMENT SUPPORT	
7	1001121047	1	BOTTOM COVER PLATE	
8	1001128248	1	COOLER ACCESS COVER PLATE	
15	1001132796	2	HOSE GUIDE BRACKET	
16	0811610	4	SCREW, 3/8-16X1-1/4	
18	0641640	4	HEX HD CAPSCREW, 3/8-16X5	
19	1001143653	4	SPACER TUBE	
20	1001123654	2	HOSE GUIDE PLATE	
24	1001150299	2	HOSE, 3/4	
101	N.S.S.	1	FRAME WELDMENT	
223	83201147	4	HEX HD CAPSCREW, 1-8X8-1/2, GR8, (torque to 860 lb-ft/1170 Nm)	
224	80241137	4	WASHER	
251	91140001	1	COUNTERWEIGHT, (if equipped)	
251	1001097095	1	COUNTERWEIGHT WITH PINTLE HITCH ASSY, (if equipped),	B
303		Ref	PINTLE HOOK, (not shown), (See PINTLE HOOK for Breakdown)	
304	1001091458	1	COUNTERWEIGHT	
401		Ref	HYDRAULIC TANK, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
402		Ref	CAB WELDMENT, (See CAB SECTION for Breakdown)	
501	90206202	11 in	TRIM-LOK	
502	4060918	39 in	TRIM-LOK, (not shown)	
503	1001125491	1	FOAM GASKET SEAL	

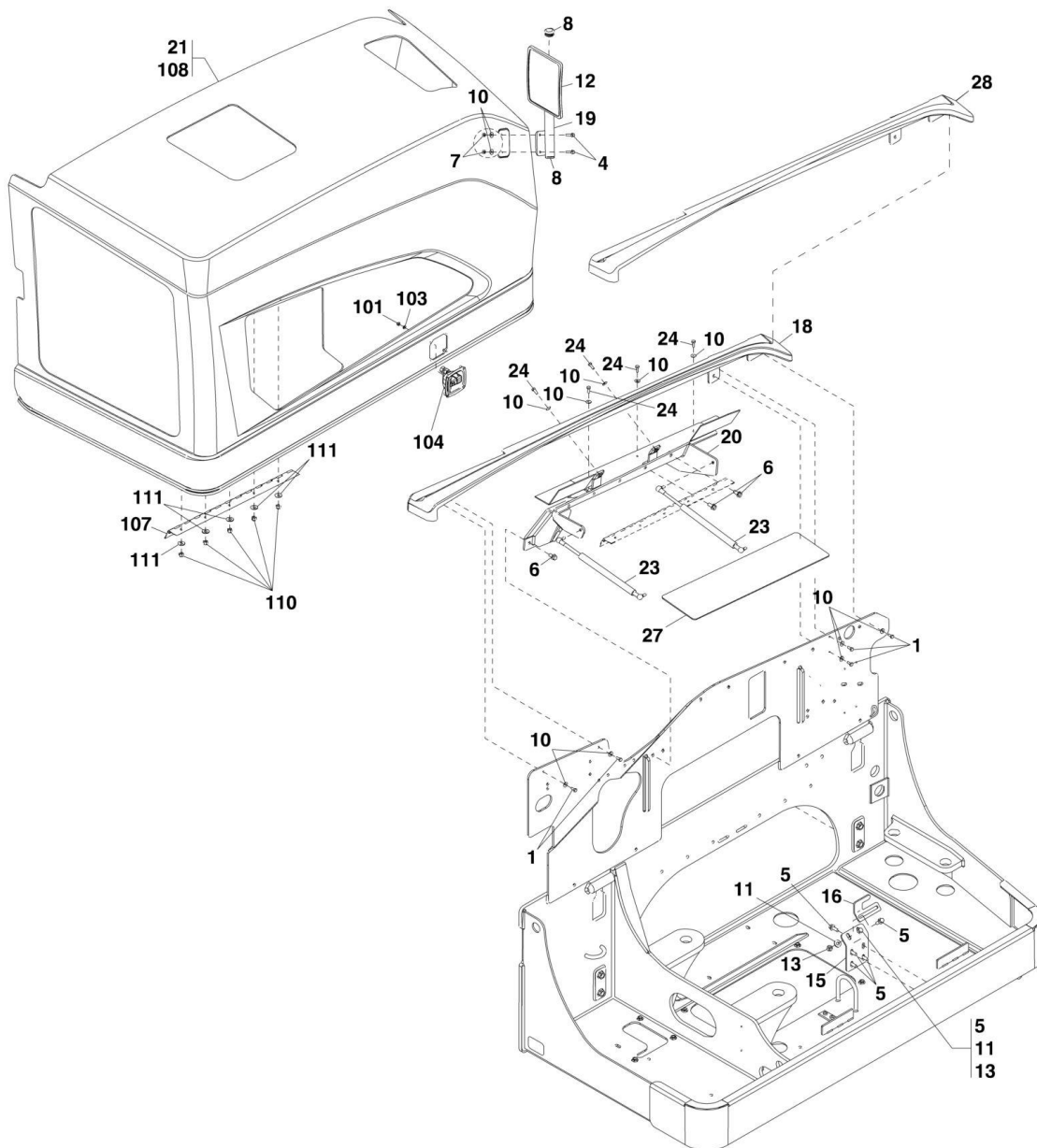
SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-2. COVERS



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SECTION 1 - FRAME AND ATTACHING PARTS



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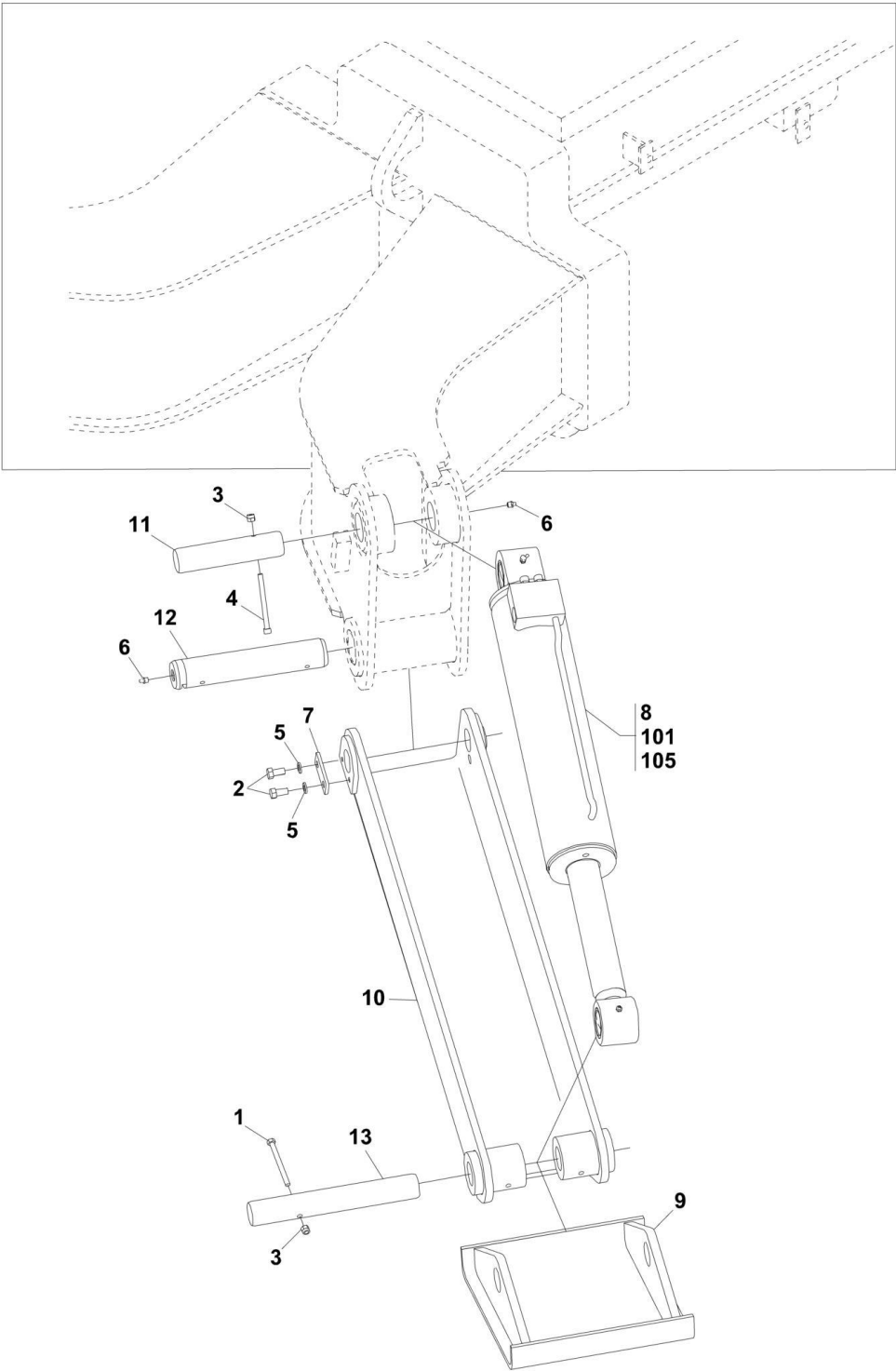
SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-2. COVERS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129636	Ref	COVERS INSTALLATION, (not available to order, see items 1 thru 28 for service)	H
1	0641405	10	HEX HD CAPSCREW, 1/4-20X5/8, GR5	
3	0641610	5	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
4	0791410	2	SCREW, 1/4-20X1-1/4	
5	0791608	6	SCREW, 3/8-16X1	
6	0811606	5	SCREW, 3/8-16X3/4	
7	3311405	2	HEX LOCKNUT, 1/4-20	
8	3520176	2	PLUG	
10	4751400	12	WASHER, 1/4	
11	4751600	7	WASHER, 3/8	
12	8866348	1	RH MIRROR, (includes washer and locknut)	
13	88501006	2	HEX NUT, 3/8-16	
14	88662523	5	TINNERMAN NUT	
15	1001121332	1	LATCH MOUNT BRACKET	
16	1001121337	1	LATCH CATCH BRACKET	
17	1001128390	1	COVER, FRONT	
18	1001129637	1	HINGE COVER	
19	1001129639	1	MIRROR BRACKET	
20	1001144114	1	HINGE MOUNT SUPPORT	
21	1001131147	1	ENGINE ASSY COVER, (includes items 101 thru 111)	F
23	1001131247	2	GAS SPRING	
24	0811608	6	SCREW, 3/8-16X1	
25	4761600	5	LOCKWASHER, 3/8	
26	90206198	3 in	TRIM-LOK	
27	1001146367	1	INSULATE	
28	1001146371	1	INSULATE	
101	3290605	4	HEX LOCKNUT, M6X1	
103	4811700	4	WASHER, 6mm	
104	1001122219	1	COMPRESSION LATCH	
107	1001129358	1	ENGINE COVER HINGE	
108	1001129638	1	ENGINE COVER	
110	3300492	5	LOCKING NUT	
111	4751600	5	WASHER, 3/8	
201	1001144101	15.5 in	SPLIT CONDUIT	
202	90206203	13.5 in	TRIM-LOK	
203	88671001	2	GREASE FITTING, 1/8	

SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-3. OUTRIGGER INSTALLATION



PAP27020

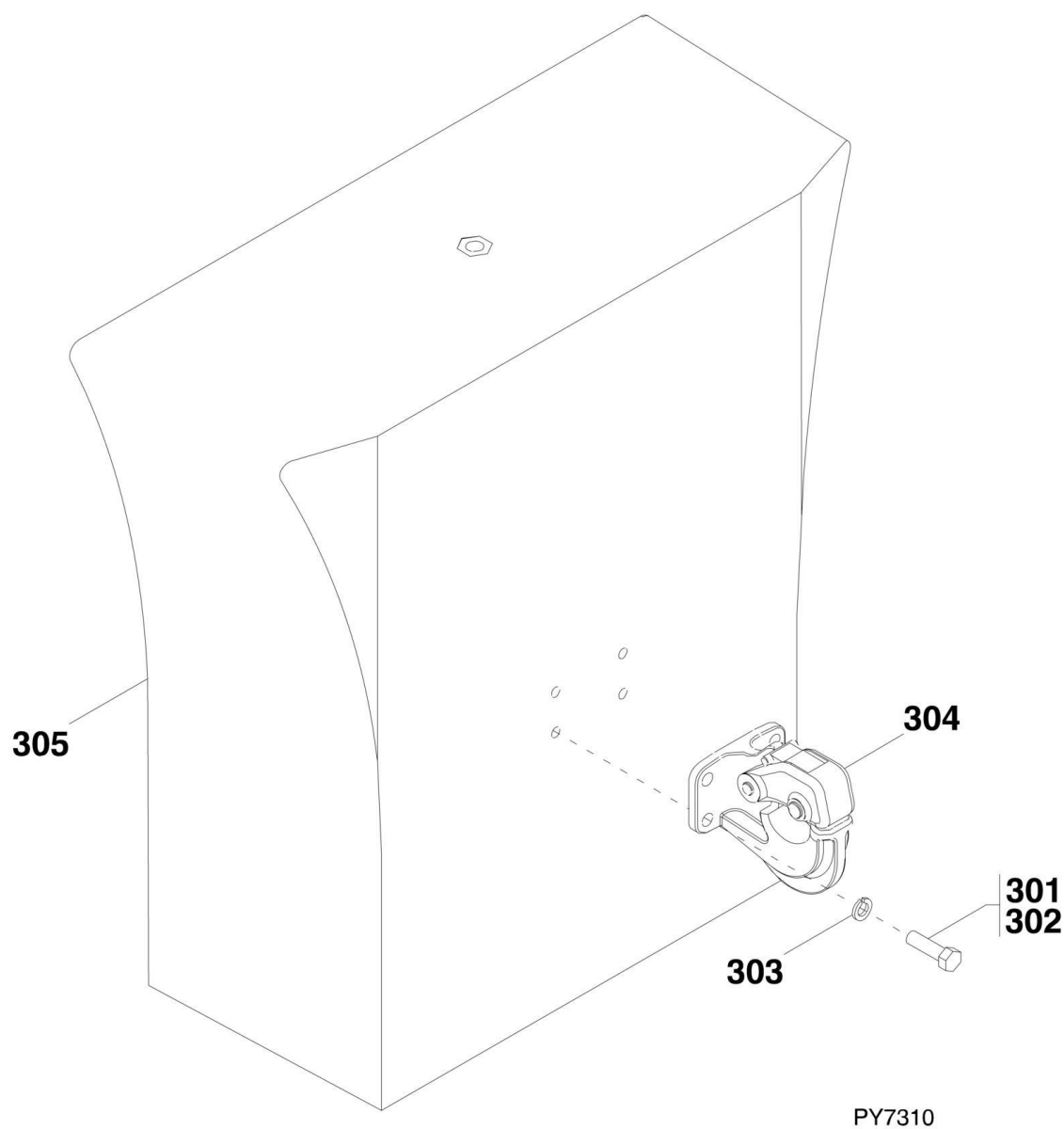
SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-3. OUTRIGGER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001143633	Ref	OUTRIGGER INSTALLATION, (includes items 1 thru 13)	A
1	0641634	2	HEX HD CAPSCREW, 3/8-16X4-1/4, GR5	
2	0641808	4	HEX HD CAPSCREW, 1/2-13X1, GR5	
3	3300143	4	HEX LOCKNUT, 3/8-16	
4	3931672	2	SOCKET HD CAPSCREW, 3/8-16X4-1/2, GR8	
5	4761800	4	LOCKWASHER, 1/2	
6	88671001	4	LUBE FITTING, STRAIGHT, 1/8	
7	91081313	2	KEEPER	B
8	1001001211	2	OUTRIGGER CYLINDER ASSY, (includes items 101 & 105)	
9	1001141892	2	PAD WELD STABILIZER	
10	1001142258	2	OUTRIGGER ARM WELDMENT	
11	91563197	2	OUTRIGGER CYLINDER PIN	
12	91563198	2	ARM PIN	
13	91563199	2	SHOE PIN	
101		Ref	OUTRIGGER CYLINDER AND ATTACHING HARDWARE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
105		Ref	STRAIGHT FITTING, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	

SECTION 1 - FRAME AND ATTACHING PARTS

FIGURE 1-4. PINTLE HOOK



SECTION 1 - FRAME AND ATTACHING PARTS

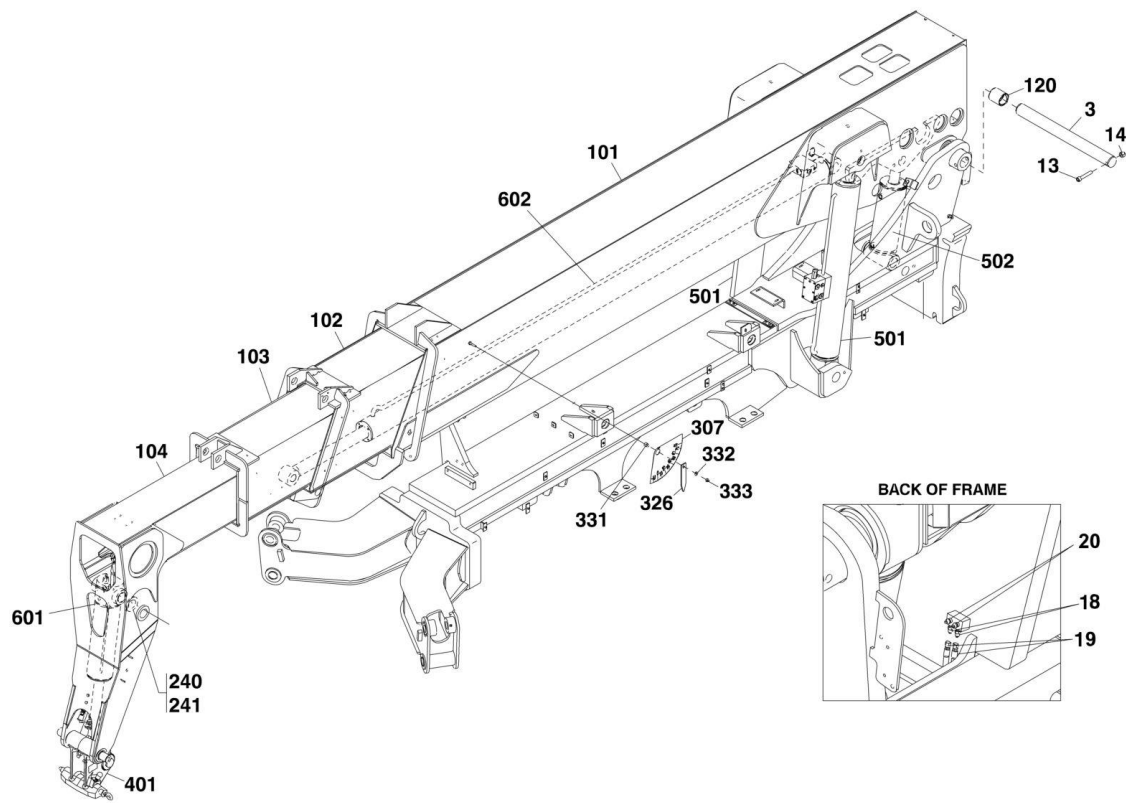
FIGURE 1-4. PINTLE HOOK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
301	0100011	AR	LOCTITE 242	
302	0681814	4	HEX HD CAPSCREW, 1/2-13X1-3/4, GR8, (torque to 105 lb-ft/145 Nm)	
303	88551013	4	LOCKWASHER, 1/2	
304	90200602	1	PINTLE HOOK	
305		Ref	COUNTERWEIGHT, (See FRAME AND ATTACHING PARTS for Breakdown)	

SECTION 2 - BOOM

SECTION 2 - BOOM

FIGURE 2-1. BOOM INSTALLATION



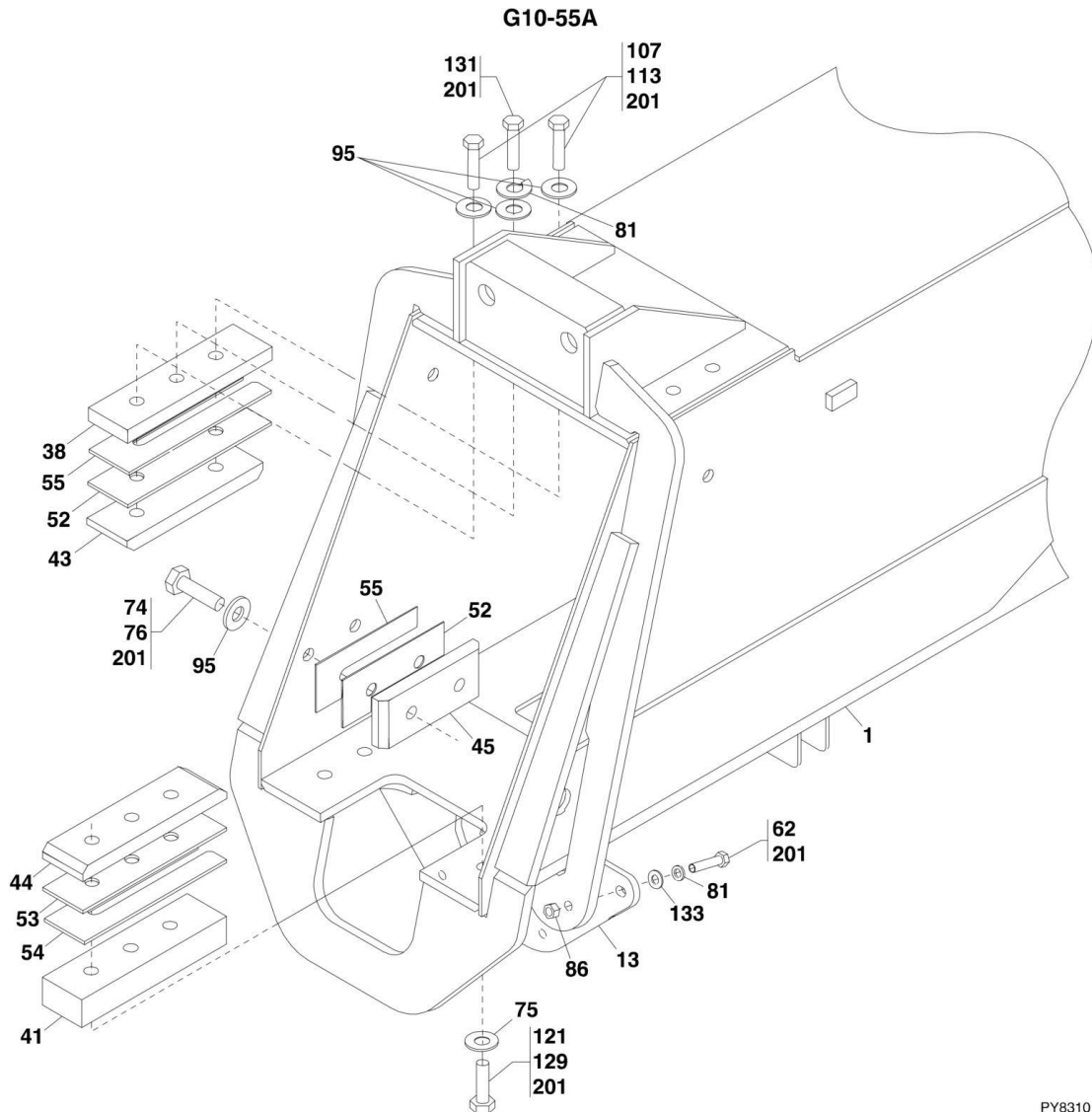
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FIGURE 2-1. BOOM INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001099663	Ref	BOOM INSTALLATION (not available to order, see items 3 thru 20 for service) (G10-55A)	I
	1001099662	Ref	BOOM INSTALLATION (not available to order, see items 3 thru 20 for service) (G12-55A)	I
3	3423247	1	PIN	
13	88212287	1	SOCKET HD CAPSCREW, 3/4-10X6	
14	8310067	1	HEX LOCKNUT, 3/4-10	
18	88661002	2	STRAIGHT FITTING	
19	84719940	2	HOSE ASSY	
20	2160002	2	GREASE FITTING	
	1001113744B	1	BOOM ASSY (includes items 101 thru 106 & 120 thru 241) (G10-55A)	I
	1001114138B	1	BOOM ASSY (includes items 101 thru 106 & 120 thru 241) (G12-55A)	I
101		Ref	FIRST BOOM SECTION, (See FIRST BOOM SECTION for Breakdown)	
102		Ref	SECOND BOOM SECTION, (See SECOND BOOM SECTION for Breakdown)	
103		Ref	THIRD BOOM SECTION, (See THIRD BOOM SECTION for Breakdown)	
104		Ref	FOURTH BOOM SECTION, (See FOURTH BOOM SECTION for Breakdown)	
105		Ref	EXTEND CHAINS, (not shown), (See EXTEND CHAINS for Breakdown)	
106		Ref	RETRACT CHAINS, (not shown), (See RETRACT CHAINS for Breakdown)	
120	91141301	2	BUSHING	
125		Ref	BOOM HYDRAULICS, (not shown), (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
240	8307916	AR	SHIM, 2.5X3.875X.075	
241	8307917	AR	SHIM, 2.5X3.875X.134	
307		Ref	ANGLE DECAL, (See DECALS SECTION for breakdown)	
326	1001098769	1	BOOM ANGLE INDICATOR	
331	1001096404	1	BOOM ANGLE SPACER	
332	4711600	1	WASHER, 3/8	
333	8305645	1	HEX LOCKNUT, 3/8-16	
401		Ref	MECHANICAL QUICK ATTACH INSTALLATION, (See MANUAL QUICK ATTACH for Breakdown)	
501		Ref	LIFT CYLINDER AND HARDWARE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
502		Ref	COMPENSATION CYLINDER AND HARDWARE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
601		Ref	TILT CYLINDER AND HARDWARE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
602		Ref	EXTEND/RETRACT CYLINDER AND HARDWARE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

SECTION 2 - BOOM

FIGURE 2-2. FIRST BOOM SECTION (G10-55A)



Note: Wear Pad Shimming:
 Whenever a shim is used with a pad, a spacer with holes must be inserted between pad and shim.
 The wear pad or wear pad insert must not sit directly on the slotted surface of shims.
 Add wear pad shims and spacers as required to shim boom to maintain a total minimum gap of 0.070 to 0.130 in (1,8 to 3,3 mm) in both horizontal and vertical directions.
 Wear pad bolts require one hardened washer. However, up to (2) hardened washers may be used except where noted otherwise.
 Under no circumstances should more than (2) hardened washers ever be used.
 The length of pad bolts depends on the number of the shims used. The bolt cannot extend past chamfer on wear pad.
 Add Mystik Tetrimoly Grease (14404793) to all wear pads and all wear pad slide pathways. If applicable, this includes all pad grease fittings at the rear of boom.

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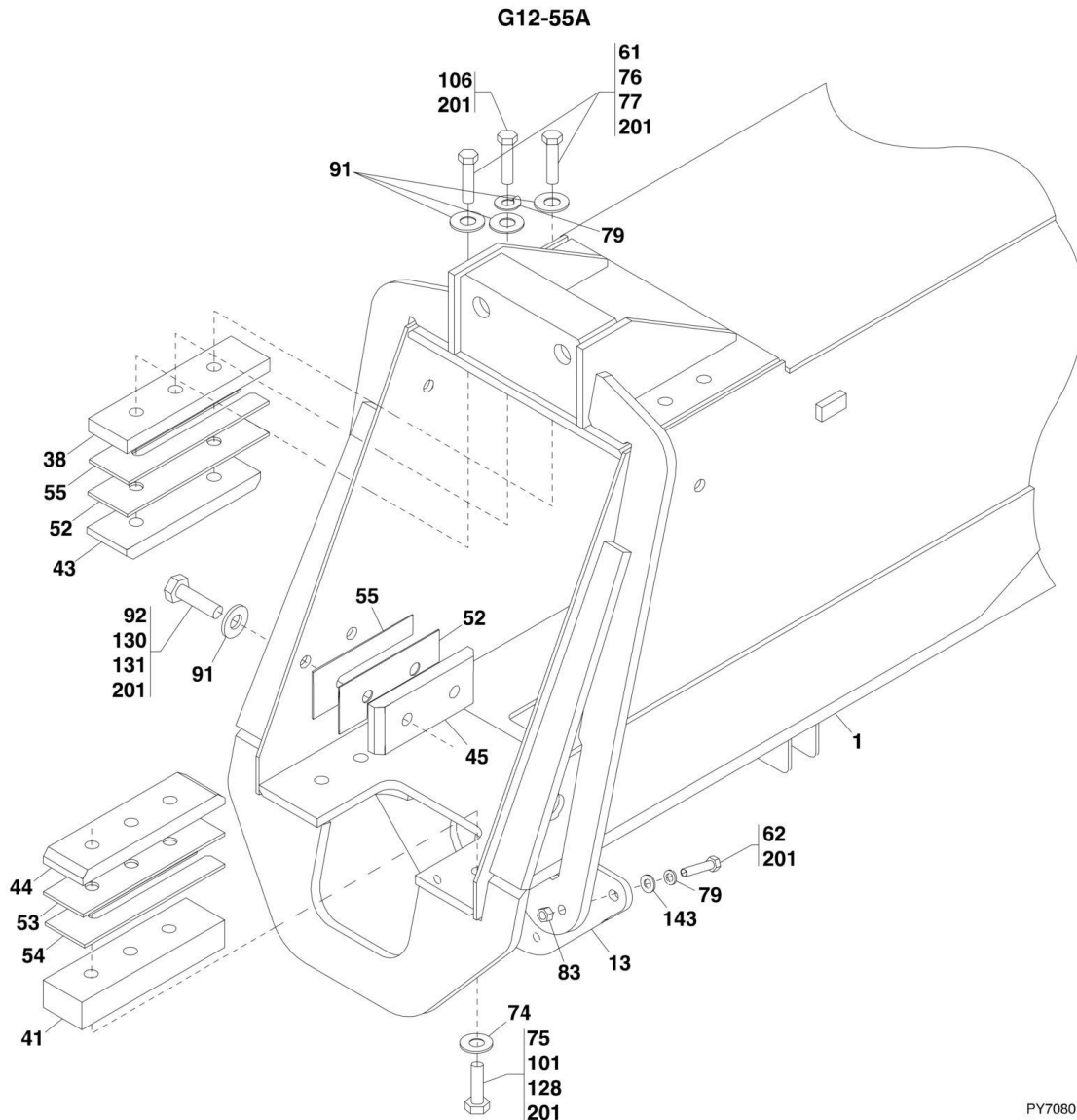
SECTION 2 - BOOM

FIGURE 2-2. FIRST BOOM SECTION (G10-55A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001113588	1	FIRST BOOM SECTION WELDMENT	
13	91561156B	1	EXTEND/RETRACT CYLINDER SUPPORT PLATE	
38	91161171	2	WEAR PAD SUPPORT	
41	91161167	2	WEAR PAD SUPPORT	
43	91033189	2	WEAR PAD	
44	1001117653	2	WEAR PAD	
45	91033186	4	WEAR PAD	
52	91031236	6	SPACER	
53	91161183	2	SPACER	
54	91161184	AR	SHIM, 0.0598	
55	90205870	AR	SHIM, 0.0598	
62	0641818	2	HEX HD CAPSCREW, 1/2-13X2-1/4, GR5, (torque to 85 lb-ft/116 Nm)	
74	0651607	AR	HEX HD CAPSCREW, 3/8-24X.88, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
75	90027471	AR	WASHER, 1/2	
76	0651606	AR	HEX HD CAPSCREW, 3/8-24X3/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
81	4761800	4	SPRING LOCKWASHER	
86	3311801	2	HEX NUT, 1/2-13	
95	4891600	14	WASHER, 3/8	
107	0651612	AR	HEX HD CAPSCREW, 3/8-24X1-1/2, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
113	0651614	AR	HEX HD CAPSCREW, 3/8-24X1-3/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
121	0651820	AR	HEX HD CAPSCREW, 1/2-20X2-1/2, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
129	0651822	AR	HEX HD CAPSCREW, 1/2-20X2-3/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
131	0641810	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
133	4711800	2	WASHER, 1/2	
201	0100011	AR	LOCTITE 242	

SECTION 2 - BOOM

FIGURE 2-3. FIRST BOOM SECTION (G12-55A)



PY7080

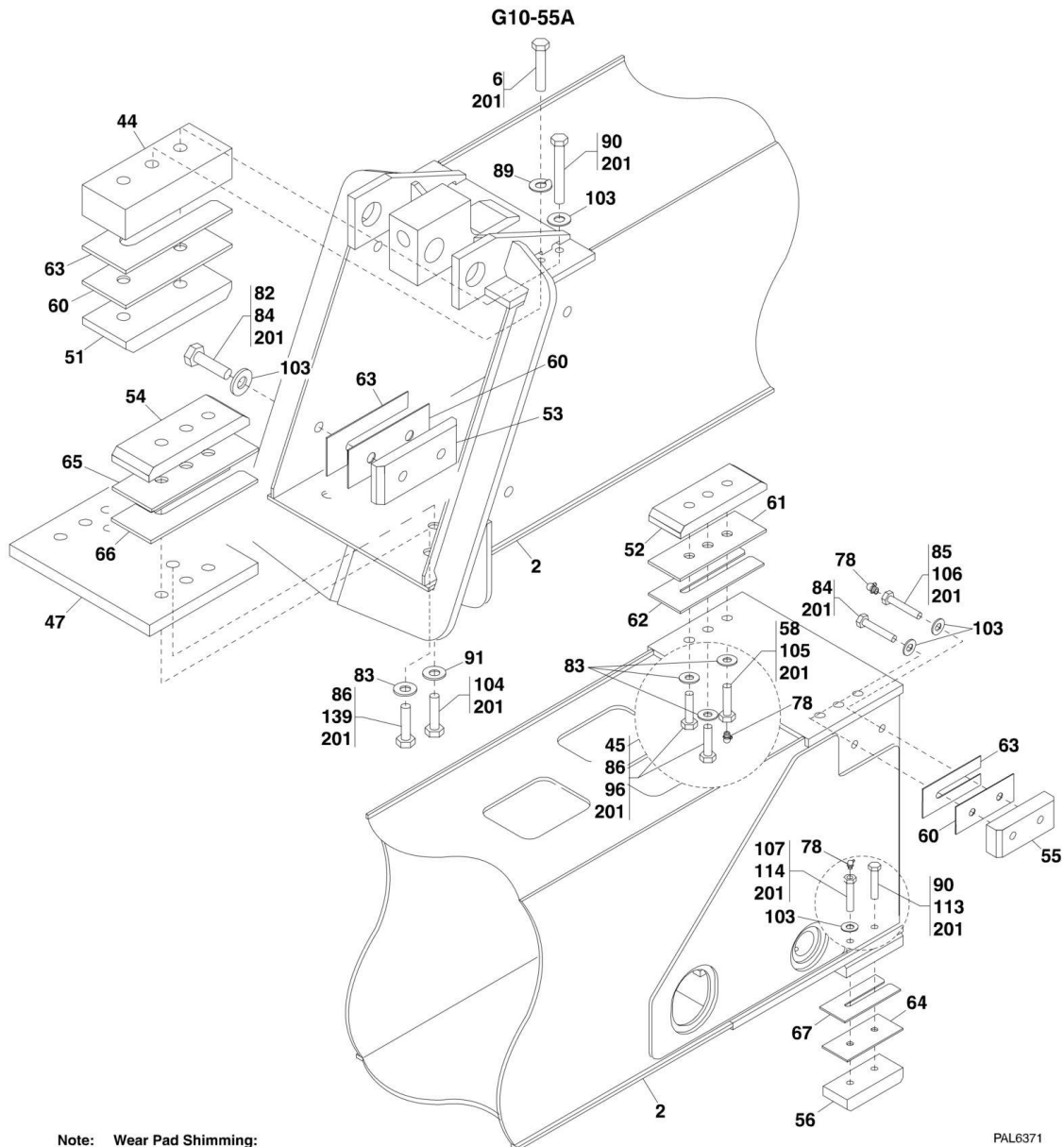
Note: **Wear Pad Shimming:**
 Whenever a shim is used with a pad, a spacer with holes must be inserted between pad and shim.
 The wear pad or wear pad insert must not sit directly on the slotted surface of shims.
 Add wear pad shims and spacers as required to shim boom to maintain a total minimum gap of 0.070 to 0.130 in (1,8 to 3,3 mm) in both horizontal and vertical directions.
 Wear pad bolts require one hardened washer. However, up to (2) hardened washers may be used except where noted otherwise.
 Under no circumstances should more than (2) hardened washers ever be used.
 The length of pad bolts depends on the number of the shims used. The bolt cannot extend past chamfer on wear pad.
 Add Mystik Tetrimoly Grease (14404793) to all wear pads and all wear pad slide pathways. If applicable, this includes all pad grease fittings at the rear of boom.

FIGURE 2-3. FIRST BOOM SECTION (G12-55A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001113690	1	FIRST BOOM SECTION WELDMENT	
13	91561156B	1	EXTEND/RETRACT CYLINDER SUPPORT PLATE	
38	91161171	2	WEAR PAD SUPPORT	
41	91561101	2	WEAR PAD SUPPORT	
43	91033189	2	WEAR PAD	
44	1001117653	2	WEAR PAD	
45	91033186	4	WEAR PAD	
52	91031236	6	SPACER	
53	91161183	2	SPACER	
54	91161184	AR	SHIM, 0.0598	
55	90205870	AR	SHIM, 0.0598	
61	0651610	AR	HEX HD CAPSCREW, 3/8-24X1-1/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
62	0641818	2	HEX HD CAPSCREW, 1/2-13X2-1/4, GR5, (torque to 85 lb-ft/116 Nm)	
74	90027471	6	WASHER	
75	0651822	AR	HEX HD CAPSCREW, 1/2-20X2-3/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
76	0651614	AR	HEX HD CAPSCREW, 3/8-24X1-3/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
77	0651612	AR	HEX HD CAPSCREW, 3/8-24X1-1/2, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
79	4761800	4	SPRING LOCKWASHER	
83	3311801	2	HEX NUT, 1/2-13	
91	4891600	14	WASHER, 3/8	
92	0651606	AR	HEX HD CAPSCREW, 3/8-24X3/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
101	0651820	AR	HEX HD CAPSCREW, 1/2-20X2-1/2, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
106	0641808	2	HEX HD CAPSCREW, 1/2-13X1, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
128	0651818	AR	HEX HD CAPSCREW, 1/2-20X2-1/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
130	0651605	AR	HEX HD CAPSCREW, 3/8-24X.625, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
131	0651607	AR	HEX HD CAPSCREW, 3/8-24X.88, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
143	4711800	2	WASHER, 1/2	
201	0100011	AR	LOCTITE 242	

SECTION 2 - BOOM

FIGURE 2-4. SECOND BOOM SECTION (G10-55A)



Note: Wear Pad Shimming:
 Whenever a shim is used with a pad, a spacer with holes must be inserted between pad & shim.
 The wear pad or wear pad insert must not sit directly on the slotted surface of shims.
 Add wear pad shims & spacers as required to shim boom to maintain a total minimum gap of 0.070 to 0.130 in (1,8 to 3,3 mm) in both horizontal & vertical directions.
 Wear pad bolts require one hardened washer. However, up to (2) hardened washers may be used except where noted otherwise.
 Under no circumstances should more than (2) hardened washers ever be used.
 The length of pad bolts depends on the number of the shims used. The bolt cannot extend past chamfer on wear pad.
 Add Mystik Tetrimoly Grease (14404793) to all wear pads & all wear pad slide pathways. If applicable, this includes all pad grease

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FIGURE 2-4. SECOND BOOM SECTION (G10-55A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2	91576006B	1	SECOND BOOM SECTION WELDMENT	
6	0641810	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
44	91161170	2	WEAR PAD SUPPORT	
45	0651814	AR	HEX HD CAPSCREW, 1/2-20X1-3/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
47	1001113609	1	SUPPORT PLATE	
51	91033189	2	WEAR PAD	
52	1001117653	2	WEAR PAD	
53	91033186	4	WEAR PAD	
54	1001117652	2	WEAR PAD	
55	91163188	2	WEAR PAD	
56	91163214	2	WEAR PAD	
58	91161221	AR	HOLLOW HEX HD CAPSCREW, 1/2-20X1-3/4, (torque to 45-50 lb-ft/61-68 Nm)	
60	91031236	8	SPACER	
61	91161183	2	SPACER	
62	91161184	AR	SHIM, 0.0598	
63	90205870	AR	SHIM, 0.0598	
64	91511094	2	SPACER	
65	91141303	2	SPACER	
66	91141302	AR	SHIM, 0.0598	
67	91121082	AR	SHIM, 0.0598	
78	88671027	6	GREASE FITTING	
82	0651607	AR	HEX HD CAPSCREW, 3/8-24X.88, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
83	90027471	12	WASHER	
84	0651606	AR	HEX HD CAPSCREW, 3/8-24X3/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
85	91161248	AR	HOLLOW HEX HD CAPSCREW, 3/8-24X3/4, (torque to 15-17 lb-ft/20-23 Nm)	
86	0651812	AR	HEX HD CAPSCREW, 1/2-20X1-1/2, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
89	4761800	2	SPRING LOCKWASHER	
90	0651618	AR	HEX HD CAPSCREW, 3/8-24X2-1/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
91	4892200	2	WASHER, 3/4	
96	0651808	AR	HEX HD CAPSCREW, 1/2-20X1, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
103	4891600	14	WASHER, 3/8	
104	0642210	2	HEX HD CAPSCREW, 3/4-10X1-1/4, GR5, (torque to 285 lb-ft/388 Nm)	
105	91161222	AR	HOLLOW HEX HD CAPSCREW, 1/2-20X1-1/2, (torque to 45-50 lb-ft/61-68 Nm)	
106	91361045	AR	HOLLOW HEX HD CAPSCREW, 3/8-24X7/8, (torque to 15-17 lb-ft/20-23 Nm)	
107	91361046	AR	HOLLOW HEX HD CAPSCREW, 3/8-24X2-1/4, (torque to 15-17 lb-ft/20-23 Nm)	
113	0651616	AR	HEX HD CAPSCREW, 3/8-24X2, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
114	91161278	AR	HOLLOW HEX HD CAPSCREW, 3/8-24X2, (torque to 15-17 lb-ft/20-23 Nm)	

SECTION 2 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
139	0651811	AR	HEX HD CAPSCREW, 1/2-20X1-3/8, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
201	0100011	AR	LOCTITE 242	

36

G10-55A,G12-55A



Whenever a shim is used with a pad, a spacer with holes must be inserted between pad & shim. The wear pad or wear pad insert must not sit directly on the slotted surface of shims.

Add wear pad shims & spacers as required to shim boom to maintain a total minimum both horizontal & vertical directions.

Wear pad bolts require one hardened washer. However, up to (2) hardened washers may be used except where noted otherwise. Under no circumstances should more than (2) hardened washers ever be used.

The length of pad bolts depends on the number of the shims used. The bolt cannot extend past chamfer on wear pad. Add Mystik Tetrिमoly Grease (14404793) to all wear pads & all wear pad slide pathways. If applicable, this includes all pad grease fittings at the rear of boom.

SECTION 2 - BOOM

FIGURE 2-5. SECOND BOOM SECTION (G12-55A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2	91566007B	1	SECOND BOOM SECTION WELDMENT	
13	91161221	AR	HOLLOW HEX HD CAPSCREW, 1/2-20X1-3/4, (torque to 45-50 lb-ft/61-68 Nm)	
45	1001121290	2	WEAR PAD SUPPORT	
47	91161168	1	SUPPORT PLATE	
52	1001117653	2	WEAR PAD	
53	91033186	4	WEAR PAD	
54	1001117652	2	WEAR PAD	
55	91163188	2	WEAR PAD	
56	91163214	2	WEAR PAD	
57	91563028	2	WEAR PAD	
60	91031236	4	SPACER	
61	91161183	2	SPACER	
62	91161184	AR	SHIM, 0.0598	
63	90205870	AR	SHIM, 0.0598	
64	91511094	2	SPACER	
65	91141303	4	SPACER	
67	91121082	AR	SHIM, 0.0598	
78	88671027	6	GREASE FITTING	
82	4891600	6	WASHER	
83	0651812	AR	HEX HD CAPSCREW, 1/2-20X1-1/2, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
87	4761800	2	SPRING LOCKWASHER	
88	4892200	2	WASHER, 3/4	
90	91161222	AR	HOLLOW HEX HD CAPSCREW, 1/2-20X1-1/2, (torque to 45-50 lb-ft/61-68 Nm)	
96	0651808	AR	HEX HD CAPSCREW, 1/2-20X1, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
97	0651812	AR	HEX HD CAPSCREW, 1/2-20X1-1/2, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
98	0651620	AR	HEX HD CAPSCREW, 3/8-24X2-1/2, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
99	90027471	18	WASHER	
100	0651606	AR	HEX HD CAPSCREW, 3/8-24X3/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
101	0642210	2	HEX HD CAPSCREW, 3/4-10X1-1/4, GR5	
102	3931828	2	SOCKET HD CAPSCREW, 1/2-13X1-3/4	
103	88211551	AR	SOCKET HD CAPSCREW, 3/8-24X3, (torque to 32-37 lb-ft/43-50 Nm)	
111	0651622	AR	HEX HD CAPSCREW, 3/8-24X2-3/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
117	0651814	AR	HEX HD CAPSCREW, 1/2-20X1-3/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
134	91563147	AR	HOLLOW HEX HD CAPSCREW, 3/8-24X1/2, (torque to 15-17 lb-ft/20-23 Nm)	
137	91161248	AR	HOLLOW HEX HD CAPSCREW, 3/8-24X3/4, (torque to 15-17 lb-ft/20-23 Nm)	
138	0651605	AR	HEX HD CAPSCREW, 3/8-24X.62, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
139	0651607	AR	HEX HD CAPSCREW, 3/8-24X.88, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
140	88211550	AR	SOCKET HD CAPSCREW, 3/8-24X2-1/2, (torque to 32-37 lb-ft/43-50 Nm)	

SECTION 2 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
141	0651810	AR	HEX HD CAPSCREW, 1/2-20X1-1/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
143	0651807	AR	HEX HD CAPSCREW, 1/2-20X.88, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
147	88681343	AR	SOCKET HD CAPSCREW, 3/8-24X2-3/4, (torque to 32-37 lb-ft/43-50 Nm)	
201	0100011	AR	LOCTITE 242	

40

G10-55A,G12-55A



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The wear pad or wear pad insert must not sit directly on the slotted surface of shims.

Wear pad bolts require one hardened washer. However, up to (2) hardened washers may be used except where noted otherwise.

The length of pad bolts depends on the number of the shims used. The bolt cannot extend past chamfer on wear pad.

Add Mystik Tetrimoly Grease (14404793) to all wear pads and all wear pad slide pathways. If applicable, this includes all pad grease fittings at the rear of boom.

SECTION 2 - BOOM

FIGURE 2-6. THIRD BOOM SECTION (G10-55A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
3	1001113528B	1	THIRD BOOM SECTION WELDMENT	
6	0641810	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
7		Ref	BOOM HYDRAULIC INSTALLATION, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
44	91161170	2	WEAR PAD SUPPORT	
45	0651814	AR	HEX HD CAPSCREW, 1/2-20X1-3/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
48	91161169	1	SUPPORT PLATE	
50	91161173	1	BRACKET	
51	91033189	2	WEAR PAD	
53	91033186	4	WEAR PAD	
54	1001117652	6	WEAR PAD	
55	91163188	2	WEAR PAD	
57	0651816	AR	HEX HD CAPSCREW, 1/2-20X2, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
58	91161221	AR	HOLLOW HEX HD CAPSCREW, 1/2-20X1-3/4, (torque to 45-50 lb-ft/61-68 Nm)	
60	91031236	8	SPACER	
62	91161184	AR	SHIM, 0.0598	
63	90205870	AR	SHIM, 0.0598	
65	91141303	6	SPACER	
66	91141302	AR	SHIM, 0.0598	
68	91161277	2	HOLLOW HEX HD CAPSCREW, 1/2-20X2, (torque to 45-50 lb-ft/61-68 Nm)	
69	0651605	AR	HEX HD CAPSCREW, 3/8-24X.62, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
78	88671027	6	GREASE FITTING	
82	0651607	AR	HEX HD CAPSCREW, 3/8-24X.88, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
83	90027471	22	WASHER	
84	0651606	AR	HEX HD CAPSCREW, 3/8-24X3/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
85	91161248	2	HOLLOW HEX HD CAPSCREW, 3/8-24X3/4, (torque to 15-17 lb-ft/20-23 Nm)	
86	0651812	AR	HEX HD CAPSCREW, 1/2-20X1-1/2, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
88	4891600	8	WASHER	
89	4761800	2	SPRING LOCKWASHER	
90	0651618	AR	HEX HD CAPSCREW, 3/8-24X2-1/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
93	0651620	AR	HEX HD CAPSCREW, 3/8-24X2-1/2, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
96	0651808	AR	HEX HD CAPSCREW, 1/2-20X1, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
100	0651806	AR	HEX HD CAPSCREW, 1/2-20X3/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
101	91361047	AR	HOLLOW HEX HD CAPSCREW, 1/2-20X1-1/2, (torque to 45-50 lb-ft/61-68 Nm)	
102	0651810	AR	HEX HD CAPSCREW, 1/2-20X1-1/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
103	90027470	12	WASHER, 3/8	
116	0642010	2	HEX HD CAPSCREW, 5/8-11X1-1/4, GR5	

SECTION 2 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
117	4892000	2	WASHER	
119	0641610	4	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
125	0641612	4	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
126	3311601	4	HEX NUT, 3/8-16	
201	0100011	AR	LOCTITE 242	

44

G10-55A,G12-55A



PAL6400

FIGURE 2-7. THIRD BOOM SECTION (G12-55A)

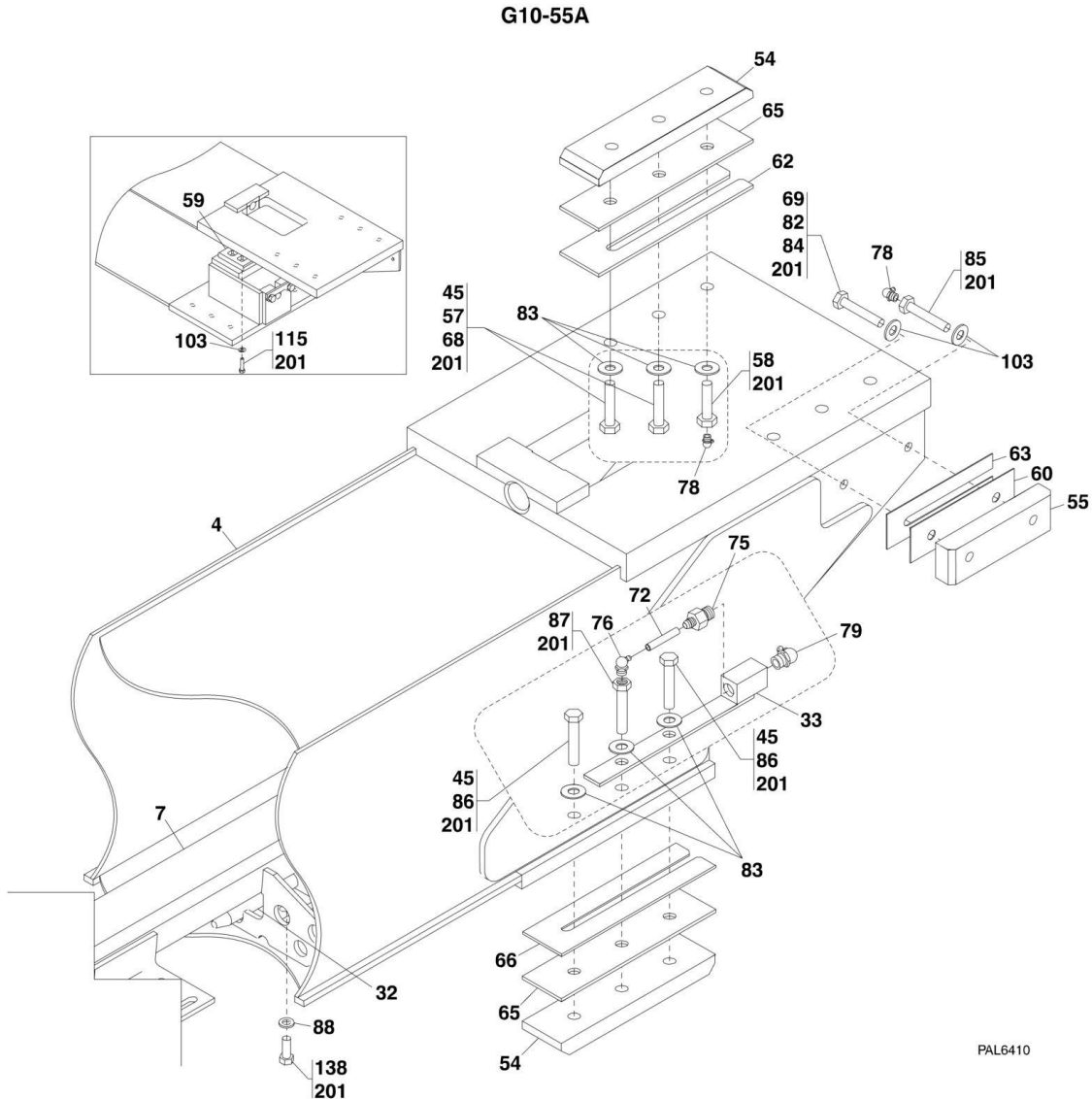
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
3	1001114001B	1	THIRD BOOM SECTION WELDMENT	
7		Ref	BOOM HYDRAULIC INSTALLATION, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
44	91561108	2	WEAR PAD SUPPORT	
48	91161169	1	SUPPORT PLATE	
50	91161173	1	BRACKET	
51	91033189	2	WEAR PAD	
53	91033186	4	WEAR PAD	
54	1001117652	4	WEAR PAD	
55	91163188	2	WEAR PAD	
58	1001117660	2	WEAR PAD	
60	91031236	8	SPACER	
63	90205870	AR	SHIM, 0.0598	
65	91141303	6	SPACER	
66	91141302	AR	SHIM, 0.0598	
68	0641816	2	HEX HD CAPSCREW, 1/2-13X2, (torque to 76-86 lb-ft/103-117 Nm)	
78	88671027	6	GREASE FITTING	
82	90027471	16	WASHER	
86	4761600	8	WASHER	
87	4761800	2	SPRING LOCKWASHER	
96	0651808	AR	HEX HD CAPSCREW, 1/2-20X1, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
98	0651620	AR	HEX HD CAPSCREW, 3/8-24X2-1/2, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
99	4891600	18	WASHER	
100	0651606	AR	HEX HD CAPSCREW, 3/8-24X3/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
110	0651816	AR	HEX HD CAPSCREW, 1/2-20X2, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
111	0651622	AR	HEX HD CAPSCREW, 3/8-24X2-3/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
112	0642008	2	HEX HD CAPSCREW, 5/8-11X1, GR5	
113	4892000	2	WASHER, 5/8	
115	0641610	4	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
117	0651814	AR	HEX HD CAPSCREW, 1/2-20X1-3/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
121	0641612	4	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
122	3311601	4	HEX NUT, 3/8-16	
127	91041450	AR	SHIM, 0.0478 IN	
135	91161277	2	HOLLOW HEX HD CAPSCREW, 1/2-20X2, (torque to 45-50 lb-ft/61-68 Nm)	
136	0651818	AR	HEX HD CAPSCREW, 1/2-20X2-1/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
137	91161248	2	HOLLOW HEX HD CAPSCREW, 3/8-24X3/4, (torque to 15-17 lb-ft/20-23 Nm)	
138	0651605	AR	HEX HD CAPSCREW, 3/8-24X.62, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
139	0651607	AR	HEX HD CAPSCREW, 3/8-24X.88, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
141	0651810	AR	HEX HD CAPSCREW, 1/2-20X1-1/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
142	0651618	AR	HEX HD CAPSCREW, 3/8-24X2-1/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	

SECTION 2 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
143	0651807	AR	HEX HD CAPSCREW, 1/2-20X.88, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
146	91563161	2	HOLLOW HEX HD CAPSCREW, 1/2-20X2-1/4, (torque to 45-50 lb-ft/61-68 Nm)	
201	0100011	AR	LOCTITE 242	

SECTION 2 - BOOM

FIGURE 2-8. FOURTH BOOM SECTION (G10-55A)



PAL6410

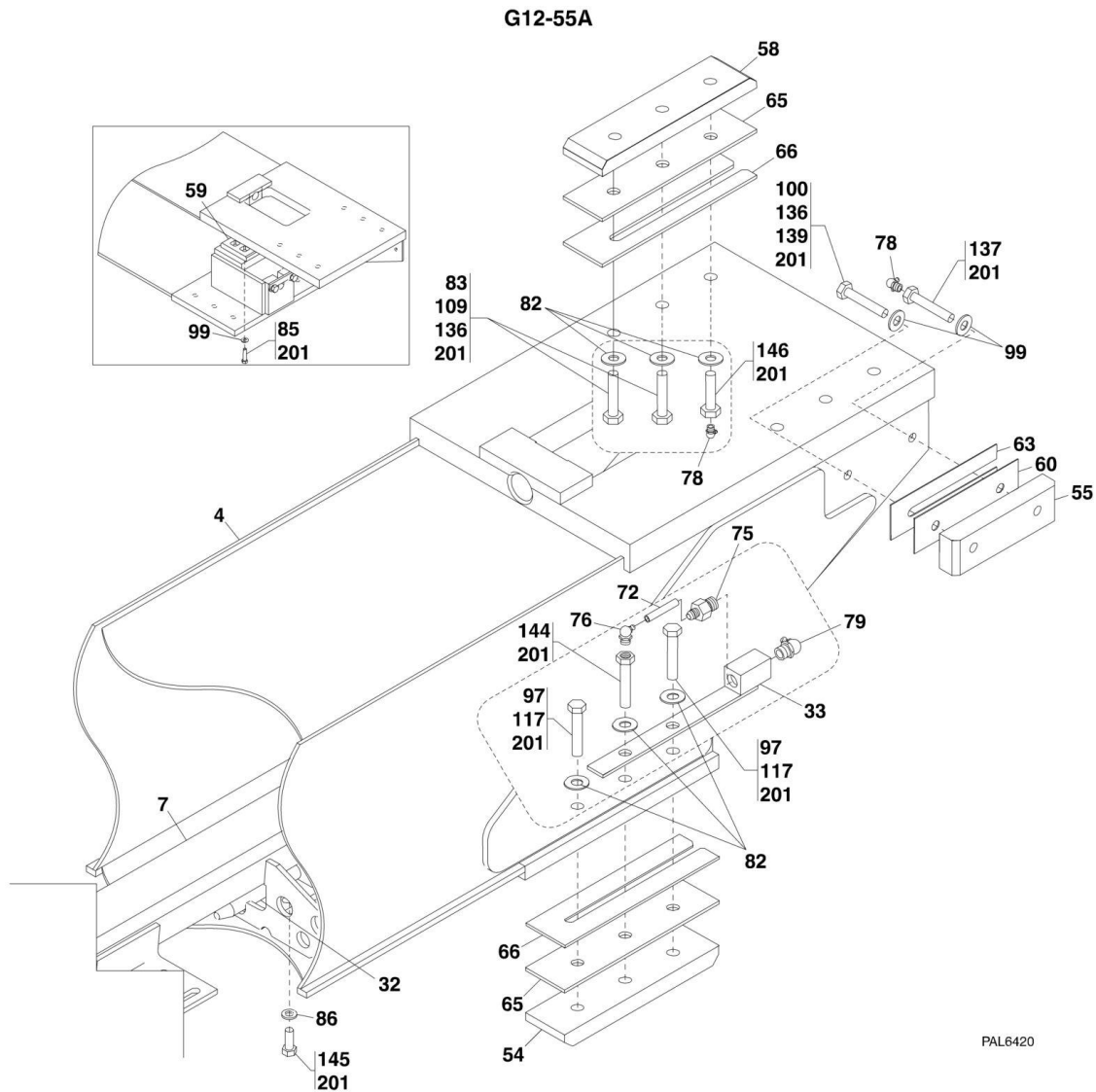
Note: Wear Pad Shimming:
 Whenever a shim is used with a pad, a spacer with holes must be inserted between pad and shim.
 The wear pad or wear pad insert must not sit directly on the slotted surface of shims.
 Add wear pad shims and spacers as required to shim boom to maintain a total minimum gap of 0.070 to 0.130 in (1,8 to 3,3 mm) in both horizontal and vertical directions.
 Wear pad bolts require one hardened washer. However, up to (2) hardened washers may be used except where noted otherwise.
 Under no circumstances should more than (2) hardened washers ever be used.
 The length of pad bolts depends on the number of the shims used. The bolt cannot extend past chamfer on wear pad.
 Add Mystik Tetrimoly Grease (14404793) to all wear pads and all wear pad slide pathways. If applicable, this includes all pad grease fittings at the rear of boom.

FIGURE 2-8. FOURTH BOOM SECTION (G10-55A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
4	1001113745B	1	FOURTH BOOM SECTION WELDMENT	
7		Ref	BOOM HYDRAULIC INSTALLATION, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
32	91166039	1	BRACKET	
33	91166065	2	BRACKET	
45	0651814	AR	HEX HD CAPSCREW, 1/2-20X1-3/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
54	1001117652	4	WEAR PAD	
55	91163188	2	WEAR PAD	
57	0651816	AR	HEX HD CAPSCREW, 1/2-20X2, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
58	91161221	2	HOLLOW HEX HD CAPSCREW, 1/2-20X1-3/4, (torque to 45-50 lb-ft/61-68 Nm)	
59	91033187	1	WEAR PAD	
60	91031236	2	SPACER	
62	91161184	AR	SHIM, 0.0598	
63	90205870	AR	SHIM, 0.0598	
65	91141303	4	SPACER	
66	91141302	AR	SHIM, 0.0598	
68	91161277	AR	HOLLOW HEX HD CAPSCREW, 1/2-20X2, (torque to 45-50 lb-ft/61-68 Nm)	
69	0651605	AR	HEX HD CAPSCREW, 3/8-24X.62, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
72	72088049	15 in	NYLON TUBING, 1/4	
75	86881273	2	STRAIGHT FITTING	
76	86881276	2	GREASE FITTING	
78	88671027	4	GREASE FITTING	
79	88671018	2	GREASE FITTING	
82	0651607	AR	HEX HD CAPSCREW, 3/8-24X.88, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
83	90027471	12	WASHER	
84	0651606	AR	HEX HD CAPSCREW, 3/8-24X3/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
85	91161248	2	HOLLOW HEX HD CAPSCREW, 3/8-24X3/4, (torque to 15-17 lb-ft/20-23 Nm)	
86	0651812	AR	HEX HD CAPSCREW, 1/2-20X1-1/2, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
87	91161274	AR	HEX HD CAPSCREW, 1/2-20X1-3/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
88	4761600	2	WASHER	
103	4891600	6	WASHER	
115	0651612	2	HEX HD CAPSCREW, 3/8-24X1-1/2, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
138	0641608	2	HEX HD CAPSCREW, 3/8-16X1, GR5, (torque to 35 lb-ft/48 Nm)	
201	0100011	AR	LOCTITE 242	

SECTION 2 - BOOM

FIGURE 2-9. FOURTH BOOM SECTION (G12-55A)



PAL6420

Note: Wear Pad Shimming:

Whenever a shim is used with a pad, a spacer with holes must be inserted between pad and shim.

The wear pad or wear pad insert must not sit directly on the slotted surface of shims.

Add wear pad shims and spacers as required to shim boom to maintain a total minimum gap of 0.070 to 0.130 in (1.8 to 3.3 mm) in both horizontal and vertical directions.

Wear pad bolts require one hardened washer. However, up to (2) hardened washers may be used except where noted otherwise.

Under no circumstances should more than (2) hardened washers ever be used.

The length of pad bolts depends on the number of the shims used. The bolt cannot extend past chamfer on wear pad.

Add Mystik Tetrimoly Grease (14404793) to all wear pads and all wear pad slide pathways. If applicable, this includes all pad grease fittings at the rear of boom.

SECTION 2 - BOOM

FIGURE 2-9. FOURTH BOOM SECTION (G12-55A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
4	1001114008B	1	FOURTH BOOM SECTION WELDMENT	
7		Ref	BOOM HYDRAULIC INSTALLATION, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
32	91166039	1	BRACKET	
33	91166065	2	BRACKET	
54	1001117652	2	WEAR PAD	
55	91163188	2	WEAR PAD	
58	1001117660	2	WEAR PAD	
59	91033187	1	WEAR PAD	
60	91031236	2	SPACER	
63	90205870	AR	SHIM, 0.0598	
65	91141303	4	SPACER	
66	91141302	AR	SHIM, 0.0598	
72	72088049	15 in	NYLON TUBING, 1/4	
75	86881273	2	STRAIGHT FITTING	
76	86881276	2	GREASE FITTING	
78	88671027	4	GREASE FITTING	
79	88671018	2	GREASE FITTING	
82	90027471	12	WASHER	
83	0651822	AR	HEX HD CAPSCREW, 1/2-20X2-3/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
85	0651612	2	HEX HD CAPSCREW, 3/8-24X1-1/2, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
86	4761600	2	WASHER	
97	0651812	AR	HEX HD CAPSCREW, 1/2-20X1-1/2, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
99	4891600	6	WASHER	
100	0651606	AR	HEX HD CAPSCREW, 3/8-24X3/4, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
109	0651820	AR	HEX HD CAPSCREW, 1/2-20X2-1/2, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
117	0651814	AR	HEX HD CAPSCREW, 1/2-20X1-3/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
136	0651818	AR	HEX HD CAPSCREW, 1/2-20X2-1/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
137	91161248	2	HOLLOW HEX HD CAPSCREW, 3/8-24X3/4, (torque to 15-17 lb-ft/20-23 Nm)	
139	0651607	AR	HEX HD CAPSCREW, 3/8-24X.88, GR5, (torque to 32-37 lb-ft/43-50 Nm)	
144	91161274	2	HEX HD CAPSCREW, 1/2-20X1-3/4, GR5, (torque to 76-86 lb-ft/103-117 Nm)	
145	0641608	2	HEX HD CAPSCREW, 3/8-16X1, GR5, (torque to 35 lb-ft/48 Nm)	
146	91563161	2	HOLLOW HEX HD CAPSCREW, 1/2-20X2-1/4, (torque to 45-50 lb-ft/61-68 Nm)	
201	0100011	AR	LOCTITE 242	

SECTION 2 - BOOM

FIGURE 2-10. EXTEND CHAINS (G10-55A)

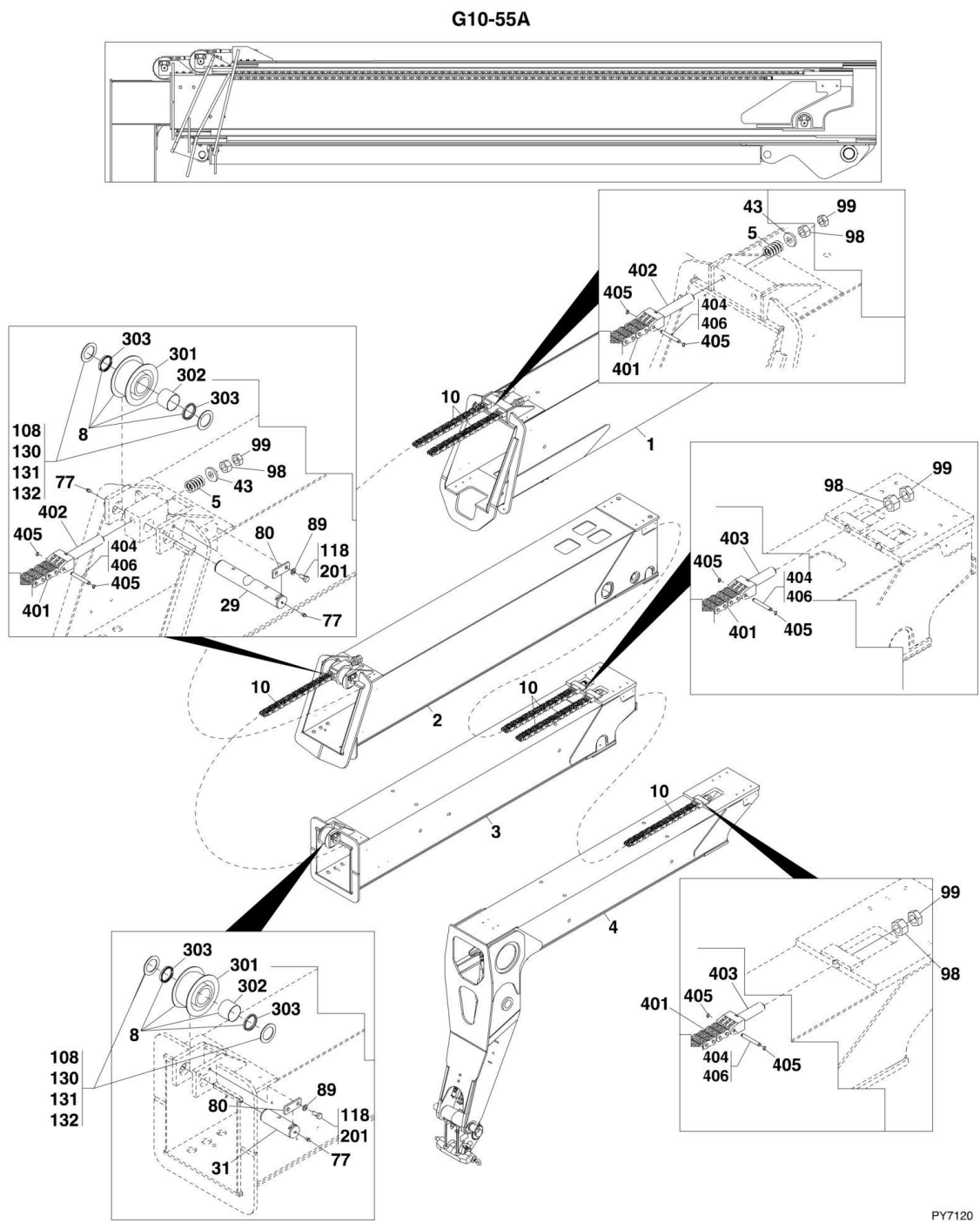


FIGURE 2-10. EXTEND CHAINS (G10-55A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	FIRST BOOM SECTION WELDMENT, (See FIRST BOOM SECTION for Breakdown)	
2		Ref	SECOND BOOM SECTION WELDMENT, (See SECOND BOOM SECTION for Breakdown)	
3		Ref	THIRD BOOM SECTION WELDMENT, (See THIRD BOOM SECTION for Breakdown)	
4		Ref	FOURTH BOOM SECTION WELDEMNT, (See FOURTH BOOM SECTION for Breakdown)	
5	91163163	3	SPRING	
8	91165022	3	CHAIN ROLLER ASSY, (includes items 301 thru 303)	A
10	0274675	3	CHAIN ASSY, (includes items 401 thru 406)	C
29	91161266	1	PIN	
31	91161267	1	PIN	
43	91161218	3	WASHER	
77	2160002	3	GREASE FITTING	
80	91401189	2	PLATE	
89	4761800	4	SPRING LOCKWASHER	
98	88501314	6	HEX NUT, 7/8-14, GR5	
99	88501414	6	HEX JAM NUT, 7/8-14, GR5, (torque to 100 lb-ft/136 Nm)	
108	91041451	6	SHIM, 0.106 IN	
118	0641808	4	HEX HD CAPSCREW, 1/2-13X1, GR5, (torque to 85 lb-ft/116 Nm)	
130	91041449	AR	SHIM, 0.060 IN	
131	91041450	AR	SHIM, 0.0478 IN	
132	91041596	AR	SHIM, 0.0359 IN	
201	0100011	AR	LOCTITE 242	
301	N.S.S.	1	ROLLER	
302	91163204	1	BUSHING	
303	86921268	2	SEAL	
401	91163036	1	LEAF CHAIN, BL866	
402	1360296	1	LEAF CHAIN CLEVIS, BL866	
403	1360297	1	LEAF CHAIN CLEVIS, BL866	
404	91413122	2	PIN	
405	88581112	4	SNAP RING	
406	8522012	AR	ANTI-SIEZE LUBE	

54

G10-55A,G12-55A



SECTION 2 - BOOM

FIGURE 2-11. EXTEND CHAINS (G12-55A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	FIRST BOOM SECTION WELDMENT, (See FIRST BOOM SECTION for Breakdown)	
2		Ref	SECOND BOOM SECTION WELDMENT, (See SECOND BOOM SECTION for Breakdown)	
3		Ref	THIRD BOOM SECTION WELDMENT, (See THIRD BOOM SECTION for Breakdown)	
4		Ref	FOURTH BOOM SECTION WELDEMNT, (See FOURTH BOOM SECTION for Breakdown)	
8	91565005	3	CHAIN ROLLER ASSY, (includes items 301 thru 303)	A
10	0274677	3	CHAIN ASSY, (includes items 401 thru 406)	C
29	1001129352	1	PIN	C
30	91563030	1	PIN	
39	91563219	3	SPRING	
43	91561107	3	WASHER	
77	2160002	3	GREASE FITTING	
80	91401189	2	PLATE	
87	4761800	4	SPRING LOCKWASHER	
94	3313001	6	HEX NUT, 1-1/4 GR5	
95	3313002	6	HEX JAM NUT, 1-1/4, GR5, (torque to 100 lb-ft/136 Nm)	
104	91041451	6	SHIM, 0.106 IN	
114	0641808	4	HEX HD CAPSCREW, 1/2-13X1, GR5, (torque to 85 lb-ft/116 Nm)	
126	91041449	AR	SHIM, 0.060 IN	
127	91041450	AR	SHIM, 0.0478 IN	
128	91041596	AR	SHIM, 0.0359 IN	
201	0100011	AR	LOCTITE 242	
301	91563026	1	ROLLER	
302	91563025	1	BUSHING	
303	91403119	2	SEAL	
401	91563035	1	LEAF CHAIN, BL1066	
402	1360300	1	LEAF CHAIN CLEVIS, BL1066	
403	1360301	1	LEAF CHAIN CLEVIS, BL1066	
404	91513176	2	PIN	
405	88581115	4	SNAP RING	
406	8522012	AR	ANTI-SIEZE LUBE	

56

G10-55A,G12-55A



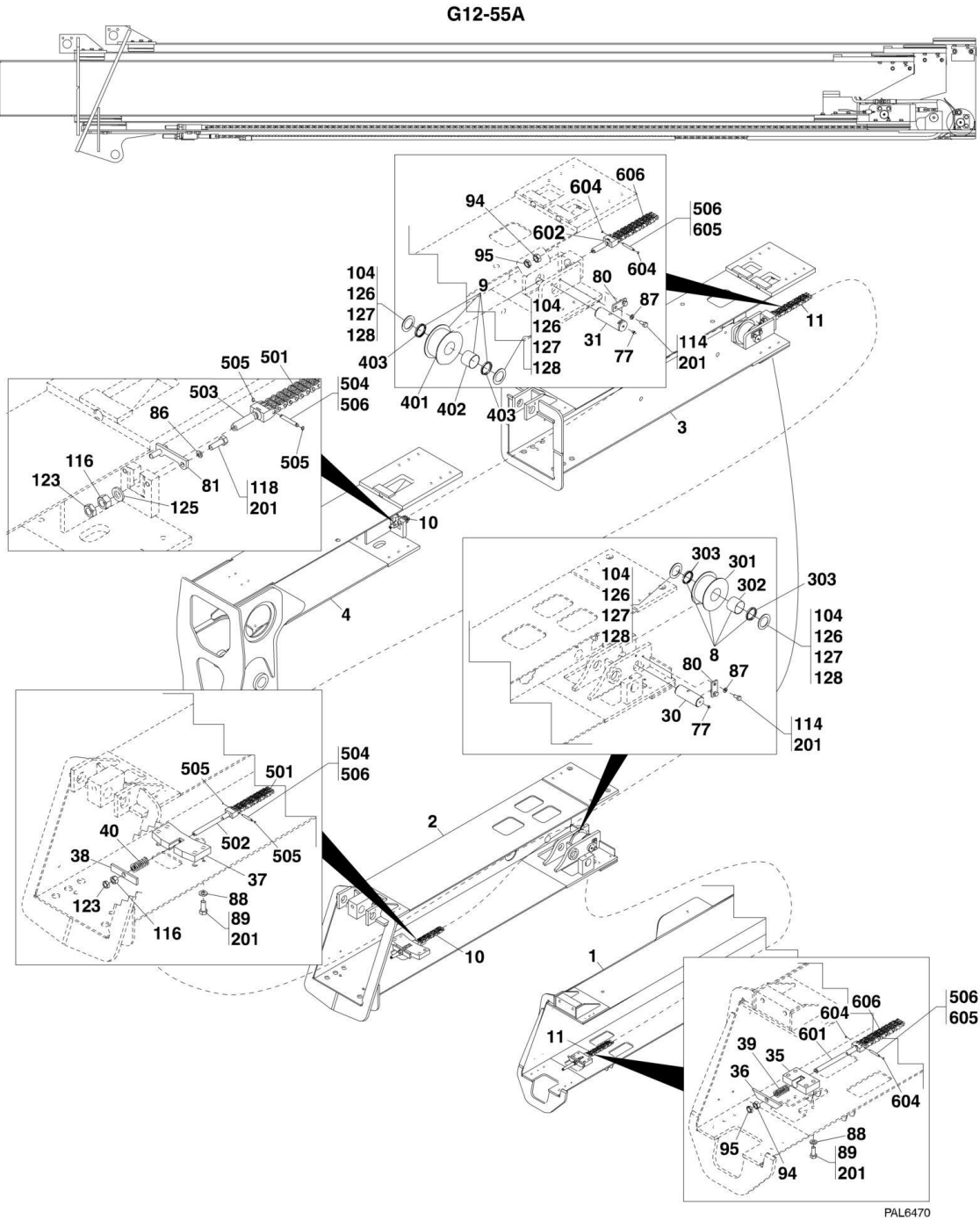
SECTION 2 - BOOM

FIGURE 2-12. RETRACT CHAINS (G10-55A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	FIRST BOOM SECTION WELDMENT, (See FIRST BOOM SECTION for Breakdown)	
2		Ref	SECOND BOOM SECTION WELDMENT, (See SECOND BOOM SECTION for Breakdown)	
3		Ref	THIRD BOOM SECTION WELDMENT, (See THIRD BOOM SECTION for Breakdown)	
4		Ref	FOURTH BOOM SECTION WELDEMNT, (See FOURTH BOOM SECTION for Breakdown)	
8	91165022	2	CHAIN ROLLER ASSY, (includes items 301 thru 303)	A
10	0274675	1	CHAIN ASSY, (includes items 401 thru 406)	C
11	0274671	1	CHAIN ASSY, (includes items 406 & 501 thru 505)	C
31	91161267	2	PIN	
35	91161211	1	CHAIN ADJUSTMENT BLOCK	
36	91161213	1	PLATE	
37	91161212	1	CHAIN ADJUSTMENT BLOCK	
38	91161214	1	PLATE	
39	91163161	1	SPRING	
40	91163162	1	SPRING	
77	2160002	2	GREASE FITTING	
80	91401189	2	PLATE	
81	91161180	1	PLATE	
88	4761600	2	WASHER	
89	4761800	4	SPRING LOCKWASHER	
91	4892200	9	WASHER, 3/4	
92	0682214	8	HEX HD CAPSCREW, 3/4-10X1-3/4, GR5, (torque to 340-365 lb-ft/461-495 Nm)	
98	88501314	2	HEX NUT, 7/8-14, GR5	
99	88501414	2	HEX JAM NUT, 7/8-14, GR5, (torque to 100 lb-ft/136 Nm)	
108	91041451	4	SHIM, 0.106 IN	
118	0641808	4	HEX HD CAPSCREW, 1/2-13X1, GR5, (torque to 85 lb-ft/116 Nm)	
120	88501312	2	HEX NUT, 3/4-16, GR5, (torque to 100 lb-ft/136 Nm)	
123	0641606	2	HEX HD CAPSCREW, 3/8-16X3/4, GR5, (torque to 35 lb-ft/48 Nm)	
127	88501412	2	HEX JAM NUT, 3/4-16, GR5, (torque to 100 lb-ft/136 Nm)	
130	91041449	AR	SHIM, 0.060 IN	
131	91041450	AR	SHIM, 0.0478 IN	
132	91041596	AR	SHIM, 0.0359 IN	
201	0100011	AR	LOCTITE 242	
301	N.S.S.	1	ROLLER	
302	91163204	1	BUSHING	
303	86921268	2	SEAL	
401	91163036	1	LEAF CHAIN, BL866	
402	1360296	1	LEAF CHAIN CLEVIS, BL866	
403	1360297	1	LEAF CHAIN CLEVIS, BL866	
404	91413122	2	PIN	
405	88581112	4	SNAP RING	
406	8522012	AR	ANTI-SIEZE LUBE	
501	91163037	1	LEAF CHAIN, BL666	
502	1360292	1	LEAF CHAIN CLEVIS, BL666	
503	1360293	1	LEAF CHAIN CLEVIS, BL666	
504	91413129	2	PIN	
505	88681344	4	SNAP RING	

SECTION 2 - BOOM

FIGURE 2-13. RETRACT CHAINS (G12-55A)



SECTION 2 - BOOM

FIGURE 2-13. RETRACT CHAINS (G12-55A)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	FIRST BOOM SECTION WELDMENT, (See FIRST BOOM SECTION for Breakdown)	
2		Ref	SECOND BOOM SECTION WELDMENT, (See SECOND BOOM SECTION for Breakdown)	
3		Ref	THIRD BOOM SECTION WELDMENT, (See THIRD BOOM SECTION for Breakdown)	
4		Ref	FOURTH BOOM SECTION WELDEMNT, (See FOURTH BOOM SECTION for Breakdown)	
8	91565005	1	CHAIN ROLLER ASSY, (includes items 301 thru 303)	D
9	91565004	1	CHAIN ROLLER ASSY, (includes items 401 thru 403)	C
10	0274677	1	CHAIN ASSY, (includes items 501 thru 506)	C
11	0274673	1	CHAIN ASSY, (includes items 506, 601, 602 & 604 thru 606)	C
30	91563030	1	PIN	
31	91161267	1	PIN	
35	91561090	1	CHAIN ADJUSTMENT BLOCK	
36	91561250	1	PLATE	
37	1001116033	1	CHAIN ADJUSTMENT BLOCK	
38	1001116125	1	PLATE	
39	91563219	1	SPRING	
40	91163161	1	SPRING	
77	2160002	2	GREASE FITTING	
80	91401189	2	PLATE	
81	91161180	1	PLATE	
86	4761600	2	WASHER	
87	4761800	4	SPRING LOCKWASHER	
88	4892200	8	WASHER, 3/4	
89	0682214	8	HEX HD CAPSCREW, 3/4-10X1-3/4, GR5, (torque to 340-365 lb-ft/461-495 Nm)	
94	3313001	2	HEX NUT, 1-1/4 GR5	
95	3313002	2	HEX JAM NUT, 1-1/4, GR5, (torque to 100 lb-ft/136 Nm)	
104	91041451	4	SHIM, 0.106 IN	
114	0641808	4	HEX HD CAPSCREW, 1/2-13X1, GR5, (torque to 85 lb-ft/116 Nm)	
116	88501314	2	HEX NUT, 7/8-14, GR5	
118	0641606	2	HEX HD CAPSCREW, 3/8-16X3/4, GR5, (torque to 35 lb-ft/48 Nm)	
123	88501414	2	HEX JAM NUT, 7/8-14, GR5, (torque to 100 lb-ft/136 Nm)	
125	4892400	1	WASHER	
126	91041449	AR	SHIM, 0.060 IN	
127	91041450	AR	SHIM, 0.0478 IN	
128	91041596	AR	SHIM, 0.0359 IN	
201	0100011	AR	LOCTITE 242	
301	91563026	1	ROLLER	
302	91563025	1	BUSHING	
303	91403119	2	SEAL	
401	91563021	1	ROLLER	
402	91163204	1	BUSHING	
403	86921268	2	SEAL	
501	91563035	1	LEAF CHAIN, BL1066	
502	1360300	1	LEAF CHAIN CLEVIS, BL1066	
503	1360301	1	LEAF CHAIN CLEVIS, BL1066	
504	91513176	2	PIN	
505	88581115	4	SNAP RING	

SECTION 2 - BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
506	8522012	AR	ANTI-SIEZE LUBE	
601	1360296	1	LEAF CHAIN CLEVIS, BL866	
602	1360297	1	LEAF CHAIN CLEVIS, BL866	
604	88581112	4	SNAP RING	
605	91413122	2	PIN	
606	91563036	1	LEAF CHAIN, BL866	

62

G10-55A,G12-55A



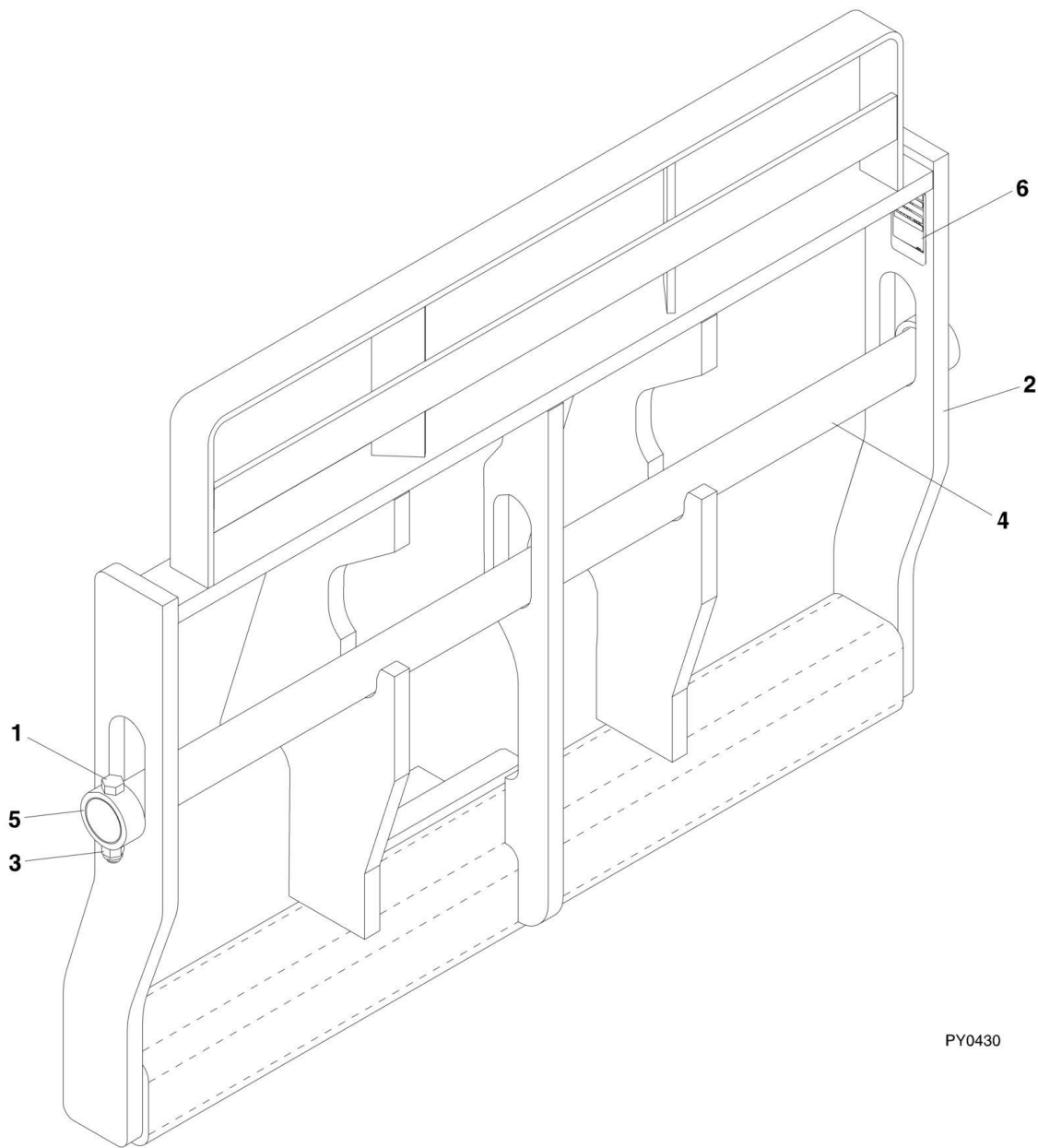
FIGURE 2-14. MANUAL QUICK ATTACH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142789	Ref	MANUAL QUICK ATTACH INSTALLATION, (not available to order, see items 1 thru 18 for service)	A
1		Ref	TILT CYLINDER HYDRAULICS, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
2	0641808	1	HEX HD CAPSCREW, 1/2-13X1, GR5	
3	0682244	1	HEX HD CAPSCREW, 3/4-10X5-1/2, GR8	
4	2160002	2	GREASE FITTING	
7	4740003	1	WASHER	
9	8307916	AR	SHIM, 2.5X.075X3.875	
10	8307917	AR	SHIM, 2.5X.134X3.875	
11	8310067	1	HEX LOCKNUT, 3/4-10	
16	1001098218	1	PIN	
17	1001098233	1	PIN	
18	1001098382	1	QUICK ATTACH ASSY, (includes items 101, 102 & 104)	E
101	1001098174	1	QUICK ATTACH	
102	1001143692	1	PIN	
104	1001105441	1	PIN	
201		Ref	FOURTH BOOM SECTION, (See FOURTH BOOM SECTION for Breakdown)	
202		Ref	TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

SECTION 3 - ATTACHMENTS

SECTION 3 - ATTACHMENTS

FIGURE 3-1. STANDARD CARRIAGE (Prior to SN 0160052000)



PY0430

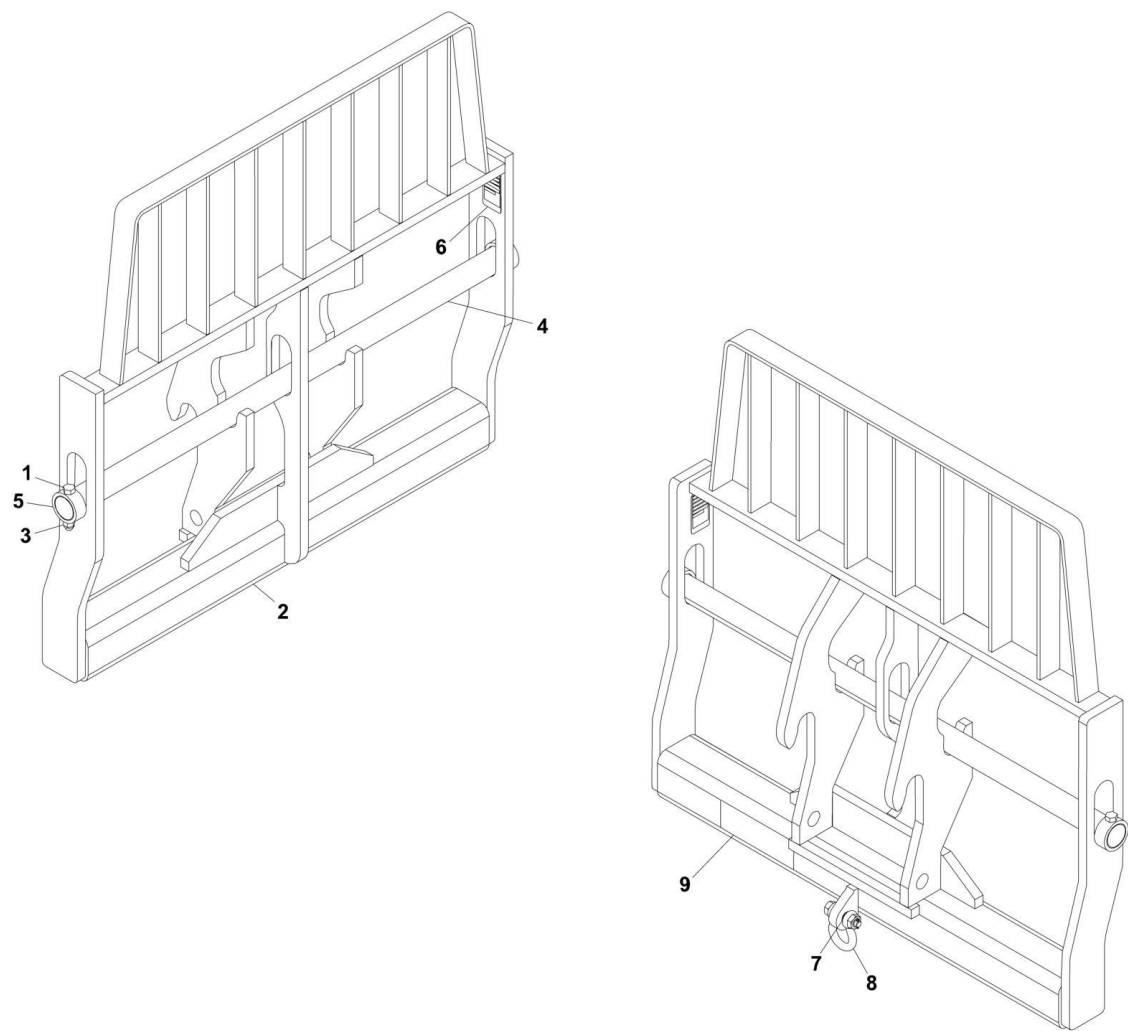
SECTION 3 - ATTACHMENTS

FIGURE 3-1. STANDARD CARRIAGE (Prior to SN 0160052000)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1170021	1	50 IN CARRIAGE, (includes all items)	E
	1170024	1	60 IN CARRIAGE, (includes all items)	E
	1001132514	1	72 IN CARRIAGE, (includes all items)	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	50 IN FORK PIN	
4	3423242	1	60 IN FORK PIN	
4	3423276	1	72 IN FORK PIN	
5	90200003	2	COLLAR	
6	N.S.S.	1	SN PLATE	

SECTION 3 - ATTACHMENTS

FIGURE 3-2. STANDARD CARRIAGE (SN 0160052000 to Present)



ART_31200728-3-2

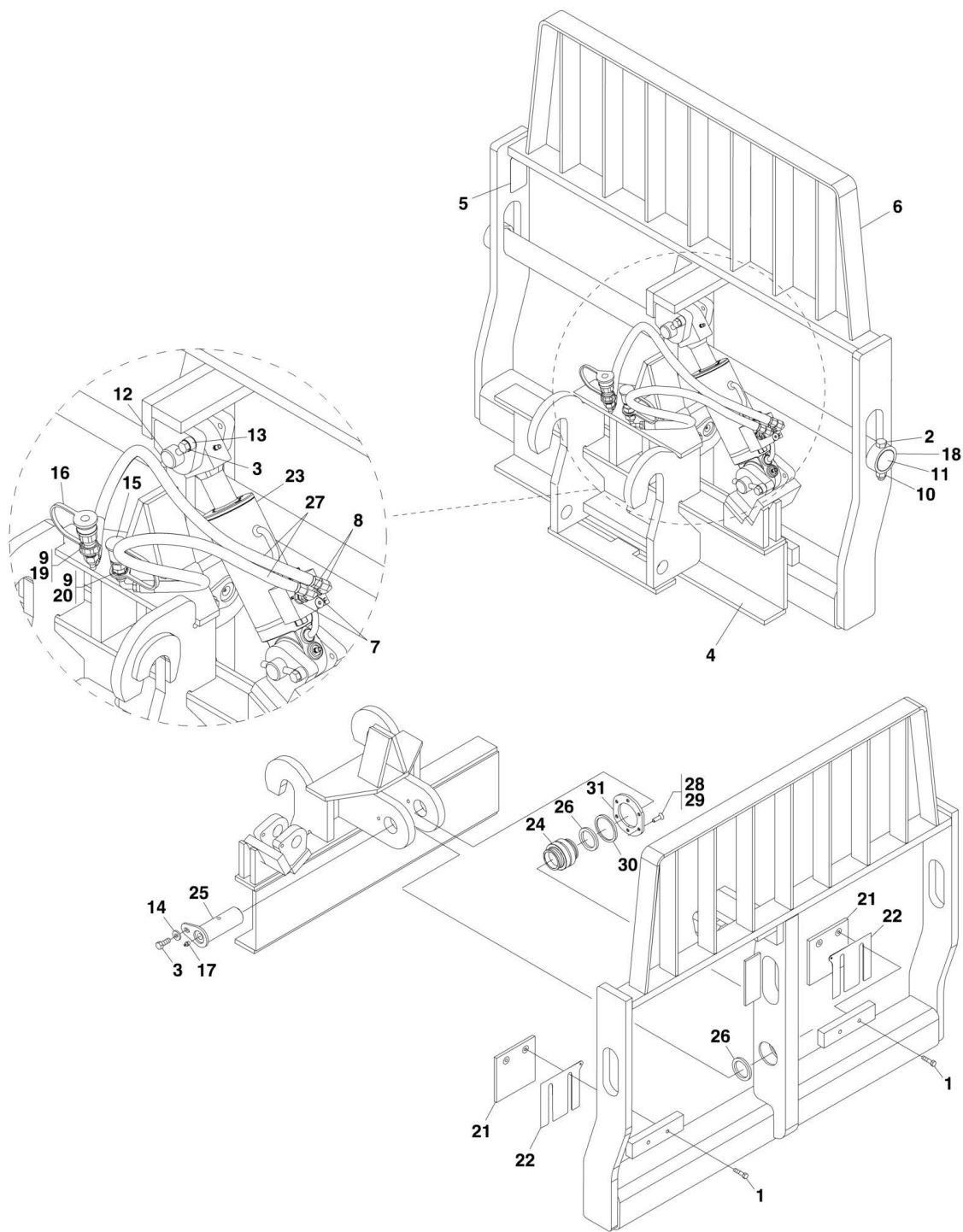
SECTION 3 - ATTACHMENTS

FIGURE 3-2. STANDARD CARRIAGE (SN 0160052000 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001146084	1	50 IN TILT CARRIAGE WITH LIFT LUG, (includes all items)	C
	1001146086	1	60 IN TILT CARRIAGE WITH LIFT LUG, (includes all items)	C
	1001146088	1	72 IN TILT CARRIAGE WITH LIFT LUG, (includes all items)	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	50 IN FORK PIN	
4	3423242	1	60 IN FORK PIN	
4	3423276	1	72 IN 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 SWINGING LOADS DECAL	

SECTION 3 - ATTACHMENTS

FIGURE 3-3. SIDE TILT CARRIAGE



ART_31200728-3-3

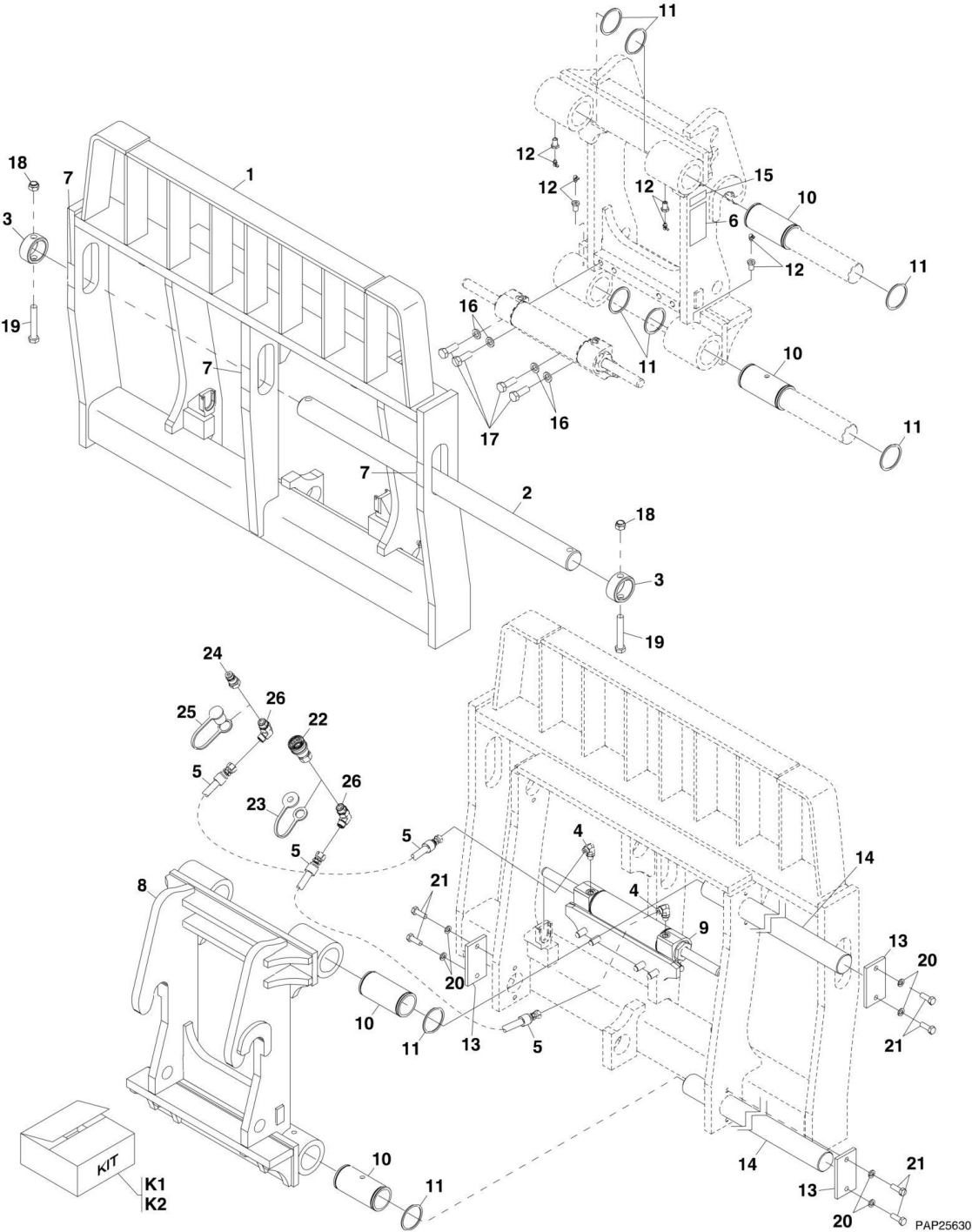
SECTION 3 - ATTACHMENTS

FIGURE 3-3. SIDE TILT CARRIAGE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1170054	1	50 IN SIDE TILT CARRIAGE, (includes all items)	J
	1001101956	1	60 IN SIDE TILT CARRIAGE, (includes all items)	K
	1170057	1	72 IN 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	SIDE TILT CARRIAGE	
7	2110606	2	CONNECTOR	
8	2172106	2	ADAPTER, 90	
9	2110808	2	CONNECTOR, (50 IN and 72 IN)	
9	2110808	2	CONNECTOR, (60 IN)	
10	3300240	2	LOCK NUT, 5/8-11	
11	3423275	1	50 IN FORK PIN	
11	3423242	1	60 IN FORK PIN	
11	3423276	1	72 IN FORK PIN	
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	HYDRAULIC CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
24	1001090140	1	BEARING	
25	1001099113	1	PIN	
26	1001099115	2	SLEEVE	
27	1001102378	2	HOSE ASSY	
28	0100011	AR	LOCTITE 242	
29	0741610	6	FLAT HD SOCKET SCREW, 3/8-16X1-1/4	
30	1001120914	1	BEARING RETAINER SHIM	
31	1001120915	1	BEARING RETAINER PLATE	

SECTION 3 - ATTACHMENTS

FIGURE 3-4. 50 IN SIDE SHIFT CARRIAGE



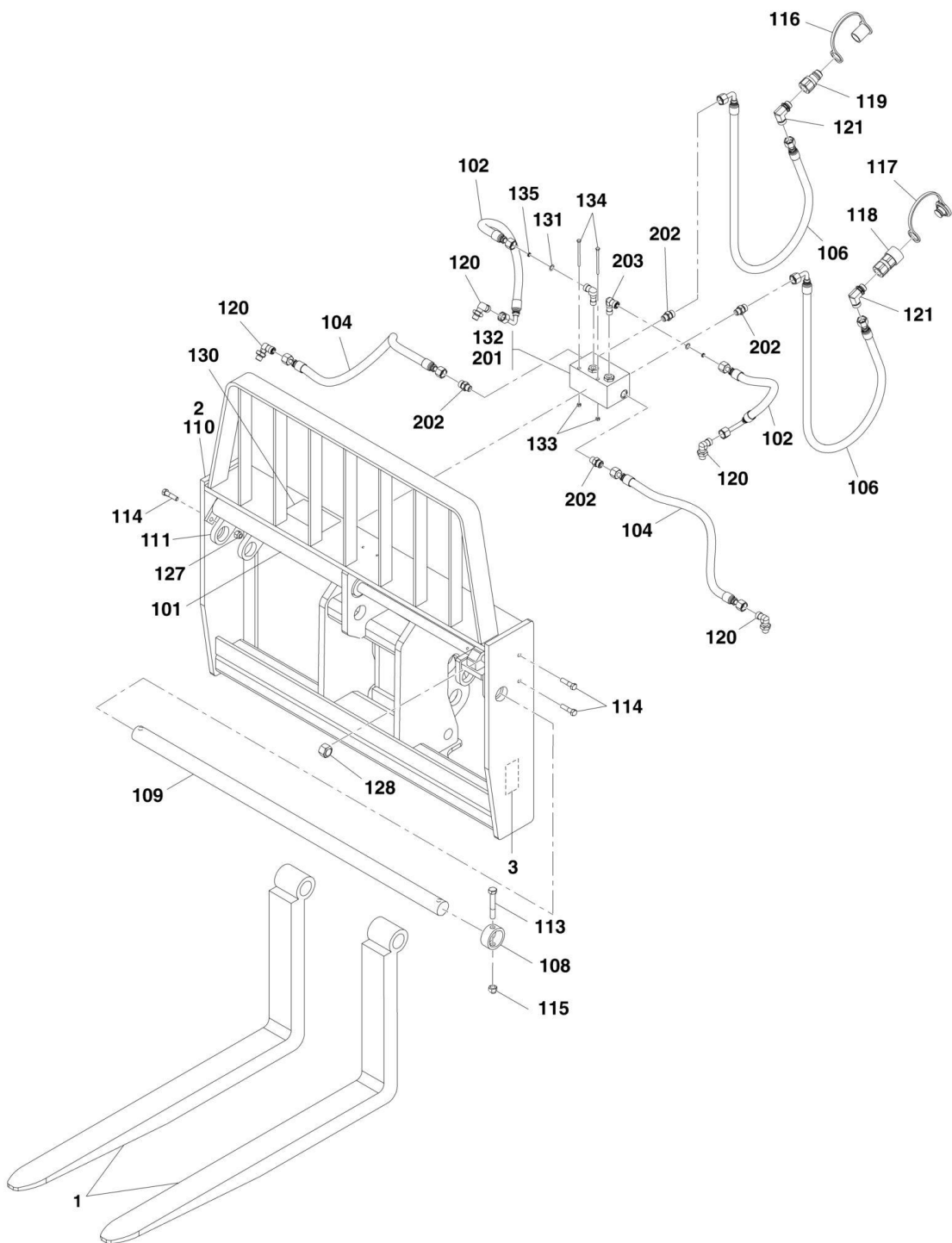
SECTION 3 - ATTACHMENTS

FIGURE 3-4. 50 IN SIDE SHIFT CARRIAGE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142790	1	50 IN SIDE SHIFT CARRIAGE, (includes all items)	C
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	50 IN 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 3 - ATTACHMENTS

FIGURE 3-5. DUAL FORK POSITIONING CARRIAGE



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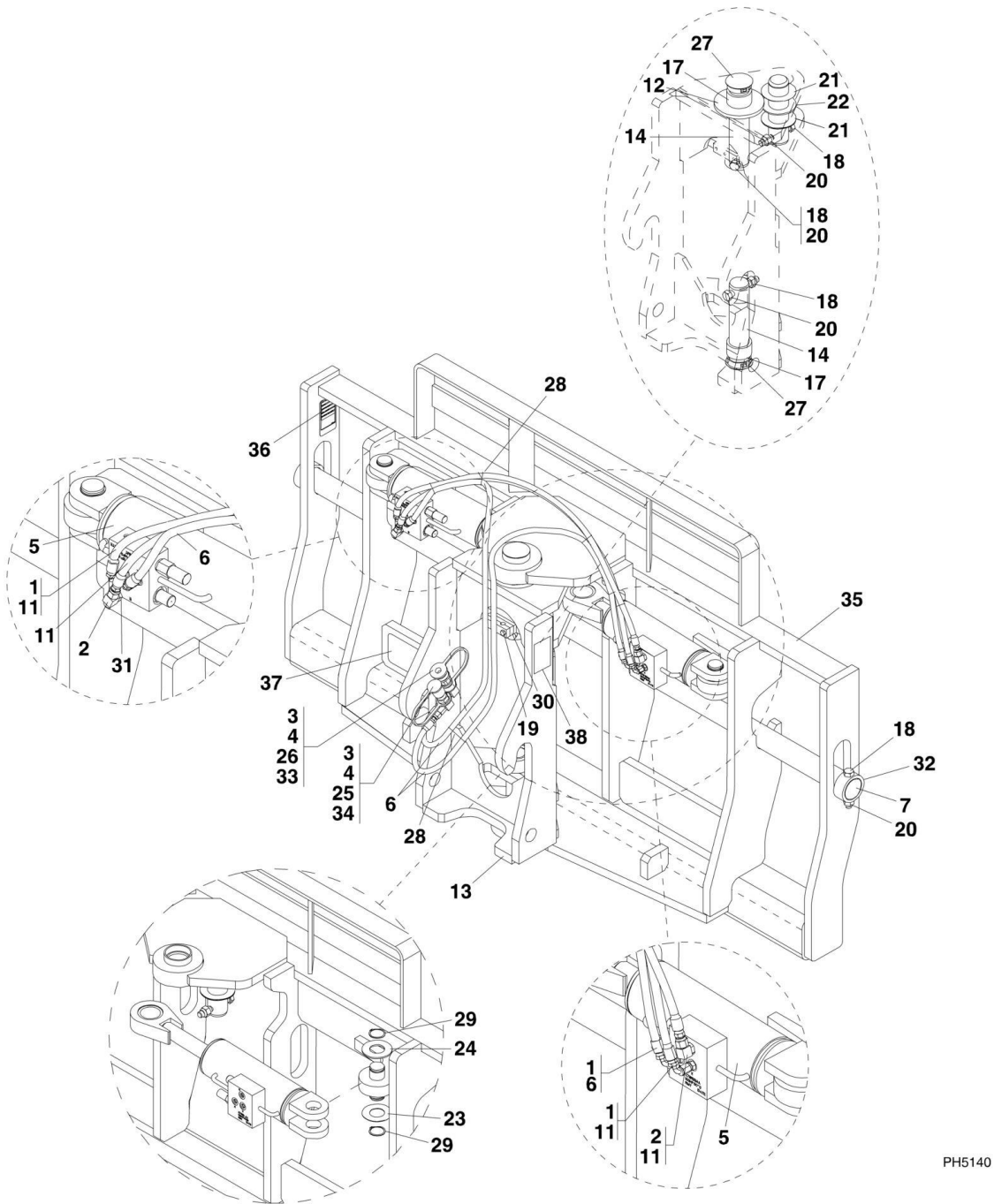
SECTION 3 - ATTACHMENTS

FIGURE 3-5. DUAL FORK POSITIONING CARRIAGE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7301295	1	50 IN DUAL FORK POSITIONING CARRIAGE, (includes items 1 thru 3)	F
1	7301408	2	PALLET FORK, (60X100X1220mm)	I
2	N.S.S.	1	50 IN CARRIAGE, (includes items 101 thru 135)	
3	N.S.S.	1	SN PLATE	
101	2717283	2	FORK POSITIONING CYLINDER	
102	2717160	2	HOSE ASSY	
104	2717161	2	HOSE ASSY	
106	2717162	2	HOSE ASSY	
108	90020003	2	FORK PIN COLLAR	
109	90451058	1	FORK SHAFT	
110	N.S.S.	1	50 IN CARRIAGE WELDMENT	
111	7301579	2	FORK ADAPTER WELDMENT	
113	8303634	2	HEX HD CAPSCREW, 5/8-11X4, GR5	
114	8303658	4	HEX HD CAPSCREW, 1/2-13X2, GR5	
115	8305643	2	HEX LOCKNUT, 5/8-11	
116	8420053	1	DUST CAP	
117	8420055	1	DUST PLUG	
118	91403413	1	CONNECTOR	
119	91403414	1	CONNECTOR	
120	2130606	4	ADAPTER, 90, (includes o-ring)	
121	2130608	2	ADAPTER, 90, (includes o-ring)	
127	8310302	4	HEX LOCKNUT, 1/2-13	B
128	10705034	2	HEX LOCKNUT, 1-14	
130	4110473	1	HOSE ROUTING DECAL	
131	7139918	2	ORIFICE DISK	
132	4641502	1	VALVE ASSY, (includes items 201 thru 203)	
133	8305624	2	HEX LOCKNUT, 1/4-20	
134	8310435	2	HEX HD CAPSCREW, 1/4-20X3-3/4, GR5	
135	8630003	2	O-RING	
201	4641501	1	FLOW DIVIDER VALVE	
202	2110606	4	CONNECTOR	
203	2130606	2	ADAPTER, 90, (includes o-ring)	

SECTION 3 - ATTACHMENTS

FIGURE 3-6. 90, SWING CARRIAGE



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SECTION 3 - ATTACHMENTS

FIGURE 3-6. 90, SWING CARRIAGE

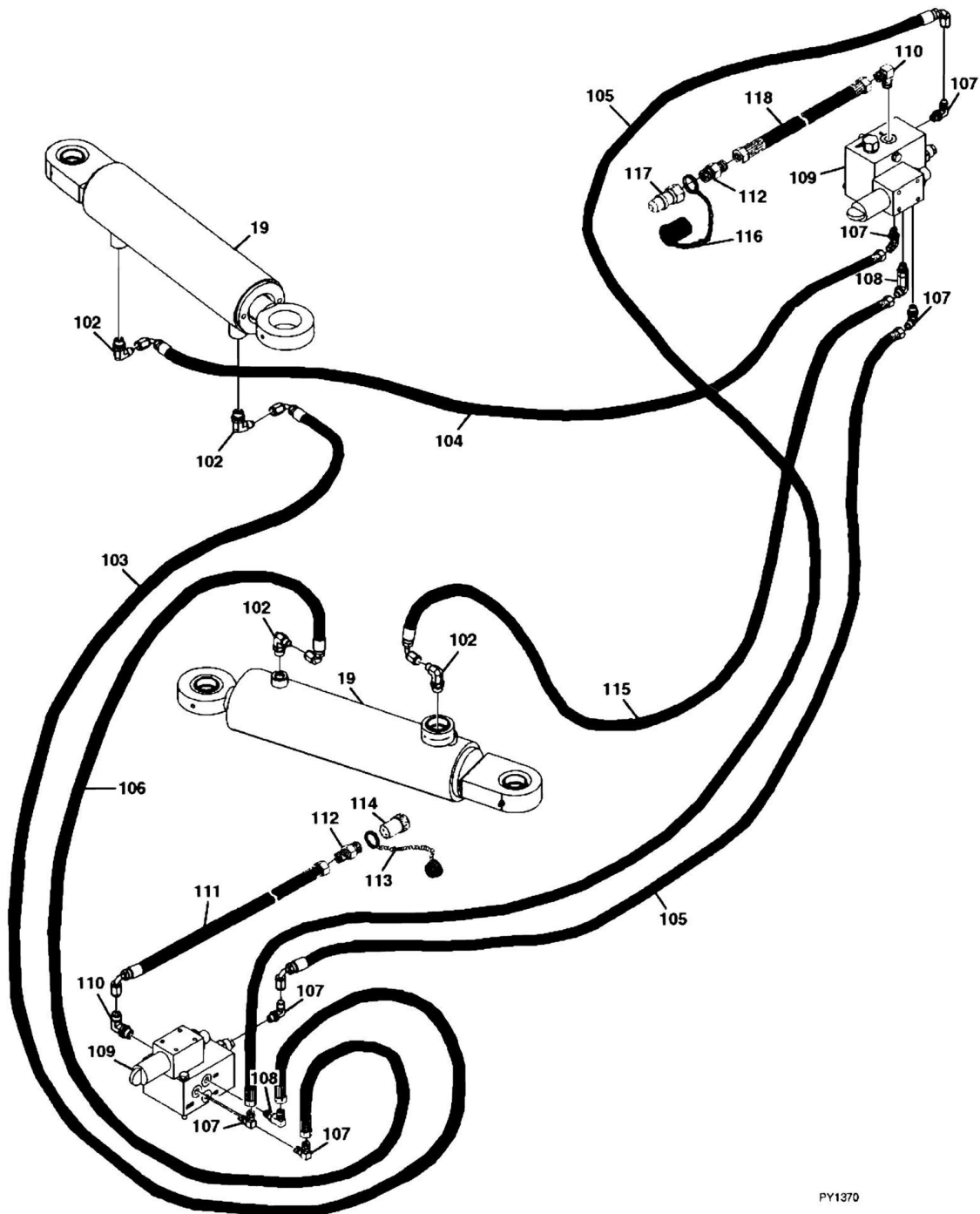
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001095418	1	72 IN 90, SWING CARRIAGE, (includes all items)	L
1	2220415	4	CONNECTOR	
2	2220473	2	ADAPTER, 90	
3	2220609	2	CONNECTOR	
4	2220628	2	ADAPTER, 90	
5		Ref	SWING CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
6	2717287	2	HOSE ASSY	
7	3423276	1	PIN	
11	6604662	2	HOSE ASSY	
12	7062922	1	WASHER	
13	N.S.S.	1	PIVOT WELDMENT	
14	7110702	2	PIVOT PIN	
17	8065062	2	BUSHING	
18	8303634	3	HEX HD CAPSCREW, 5/8-11X4, GR5	
19	8303715	3	HEX HD CAPSCREW, 5/16-18X1-1/2, GR5	
20	8305643	3	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	

78

G10-55A,G12-55A



SECTION 3 - ATTACHMENTS



PY1370

SECTION 3 - ATTACHMENTS

FIGURE 3-7. 180, SWING CARRIAGE

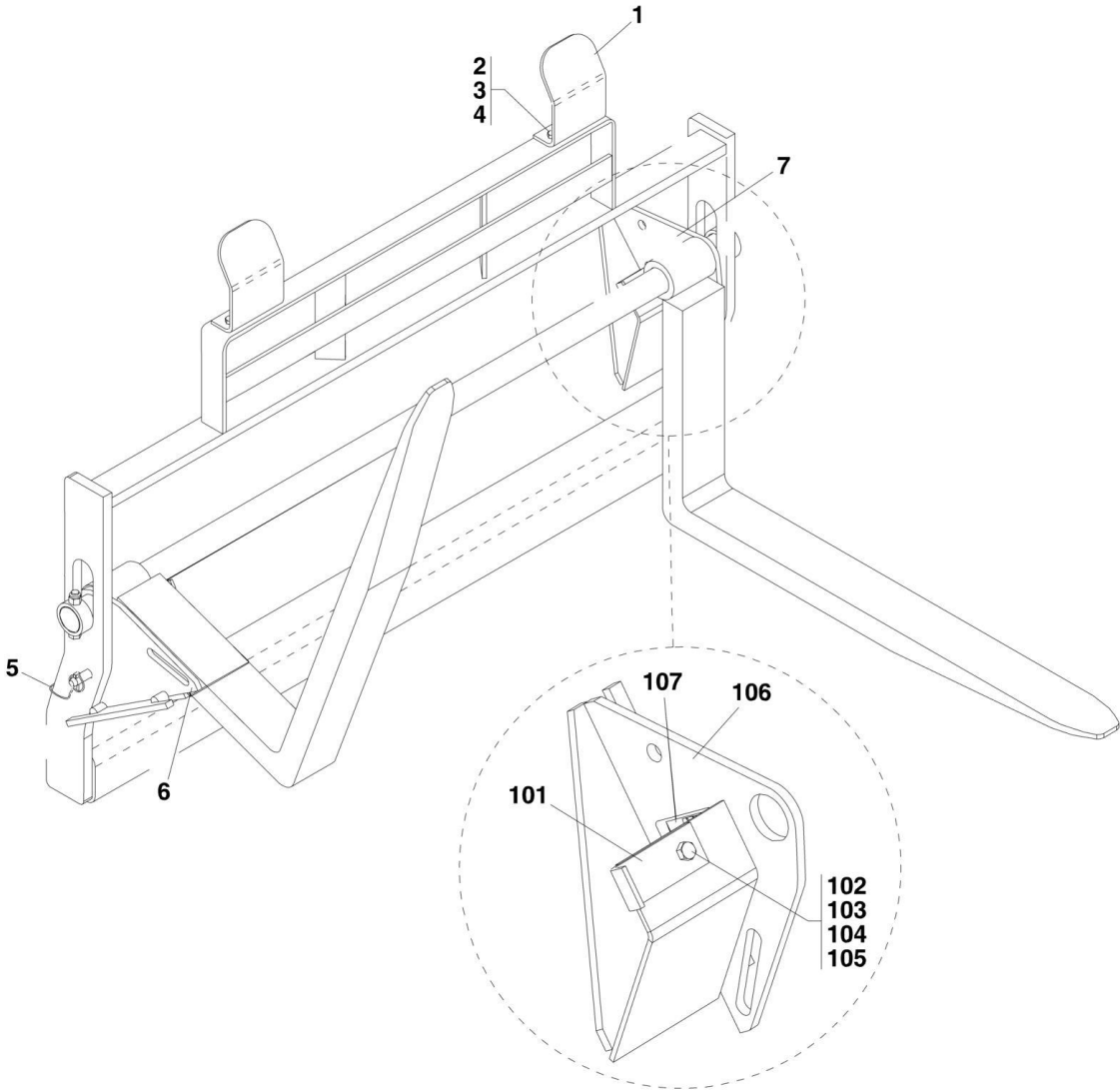
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001104992	1	72 IN 180, SWING CARRIAGE, (includes all items)	B
1		Ref	BACK FRAME	
2	90554026	2	LOCK PIN	
3	91564003	2	VALVE	
4	90554070	4	HEX HD CAPSCREW, 5/16X3	
4	90554067	4	LOCKWASHER, 5/16	
5	90554025	3	CHAIN	
6	90554042	2	BEARING	
7	70020017	2	BEARING	
8	90554045	10	GREASE FITTING	
9	70020015	4	BUSHING	
10	70020026	1	PIN	
11	70020025	1	PIN	
12	70021382	2	HEX HD CAPSCREW, 1/2X1.5	
12	90554020	2	LOCK WASHER, 1/2	
13	90554021	2	PIN	
14	90554027	2	PIN SUPPORT	
15	90554035	2	PIN	
16	1316794	2	COTTER PIN	
17	70020029	2	CLEVIS PIN	
18	70021367	6	LOCK NUT, 3/8	
19		Ref	CYLINDER ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
20	90554044	3	PIN	
21	90554043	4	PIN	
22	70021429	4	HEX HD CAPSCREW, 3/8X1.25	
22	90554042	4	LOCKWASHER, 3/8	
23	70020004	2	HEX HD CAPSCREW, 3/4X2.5	
23	90554056	2	HEX NUT, 3/4	
24	90554040	5	WASHER	
25	7029997	6	HEX HD CAPSCREW, 3/8X.75	
25	90554042	6	LOCKWASHER, 3/8	
25	7029703	6	FLAT WASHER, 3/8	
26	N.S.S.	1	MIDDLE FRAME	
27	N.S.S.	1	FRONT FRAME	
28	N.S.S.	1	SN PLATE	
29	70020002	2	HEX HD CAPSCREW, 1/2X3.5	
29	90554038	2	LOCK NUT, 1/2	
30	70020028	2	BUSHING	
31	70020027	1	PIN	
32	N.S.S.	1	PIN	
33	90554039	3	CLAMP	
34	7029996	3	CLAMP	
35	1001110704	1	DECAL, WARNING CRUSH HAZARD	
102	90554057	4	ADAPTER, 90	
103	90554058	1	HOSE ASSY	
104	90554059	1	HOSE ASSY	
105	90554060	2	HOSE ASSY	
106	90554073	1	HOSE ASSY	
107	90554069	6	ADAPTER, 90	

SECTION 3 - ATTACHMENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
108	90554071	2	ADAPTER, 90	
109	91564003	2	VALVE	
110	90554065	2	ADAPTER, 90	
111	70021983	1	HOSE ASSY	
112	90554063	2	CONNECTOR	
113	90554076	1	DUST PLUG	
114	90554077	1	FEMALE QUICK COUPLER	
115	90554072	1	HOSE ASSY	
116	90554062	1	DUST CAP	
117	90554061	1	MALE QUICK COUPLER	
118	90554064	1	HOSE ASSY	

SECTION 3 - ATTACHMENTS

FIGURE 3-8. SHEET HANDLER CARRIAGE



PY1510

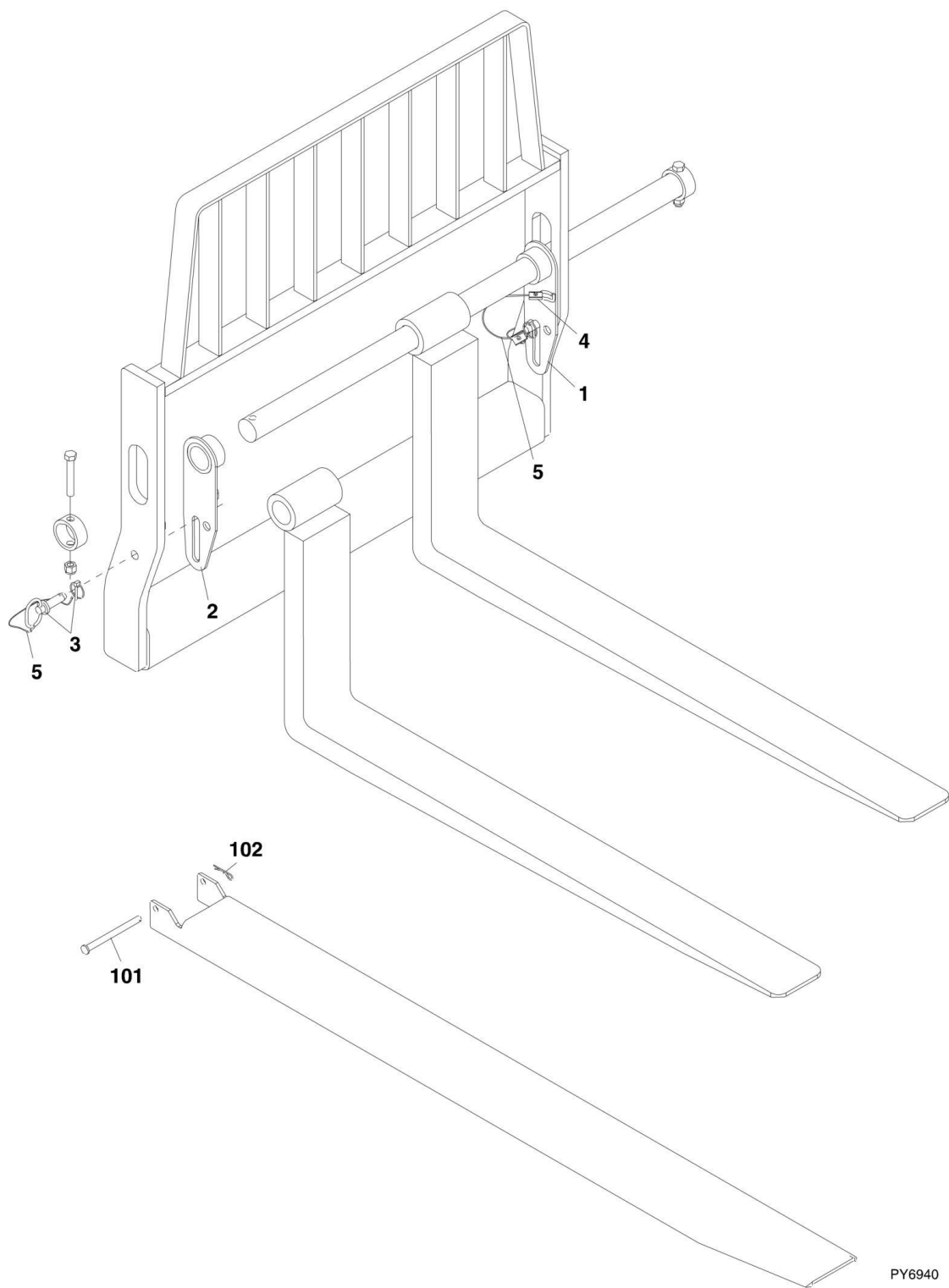
SECTION 3 - ATTACHMENTS

FIGURE 3-8. SHEET HANDLER CARRIAGE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100227	1	SHEET MATERIAL CARRIAGE, (includes all items)	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	LOCKWASHER, 1/2	
5	1001093377	2	HITCH PIN	
6	1001101115	1	RH FORK SUPPORT ASSY, (includes items 101 thru 107)	B
7	1001101116	1	LH FORK SUPPORT ASSY, (includes items 101 thru 107)	C
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	4	LOCKWASHER, 1/2	
105	8307112	1	WASHER, 1/2	
106	1001100228	1	RH FORK SUPPORT, (not shown)	
106	1001100229	1	LH FORK SUPPORT, (shown)	
107	N.S.S.	1	SN PLATE	

SECTION 3 - ATTACHMENTS

FIGURE 3-9. FORKS AND ATTACHING PARTS



PY6940

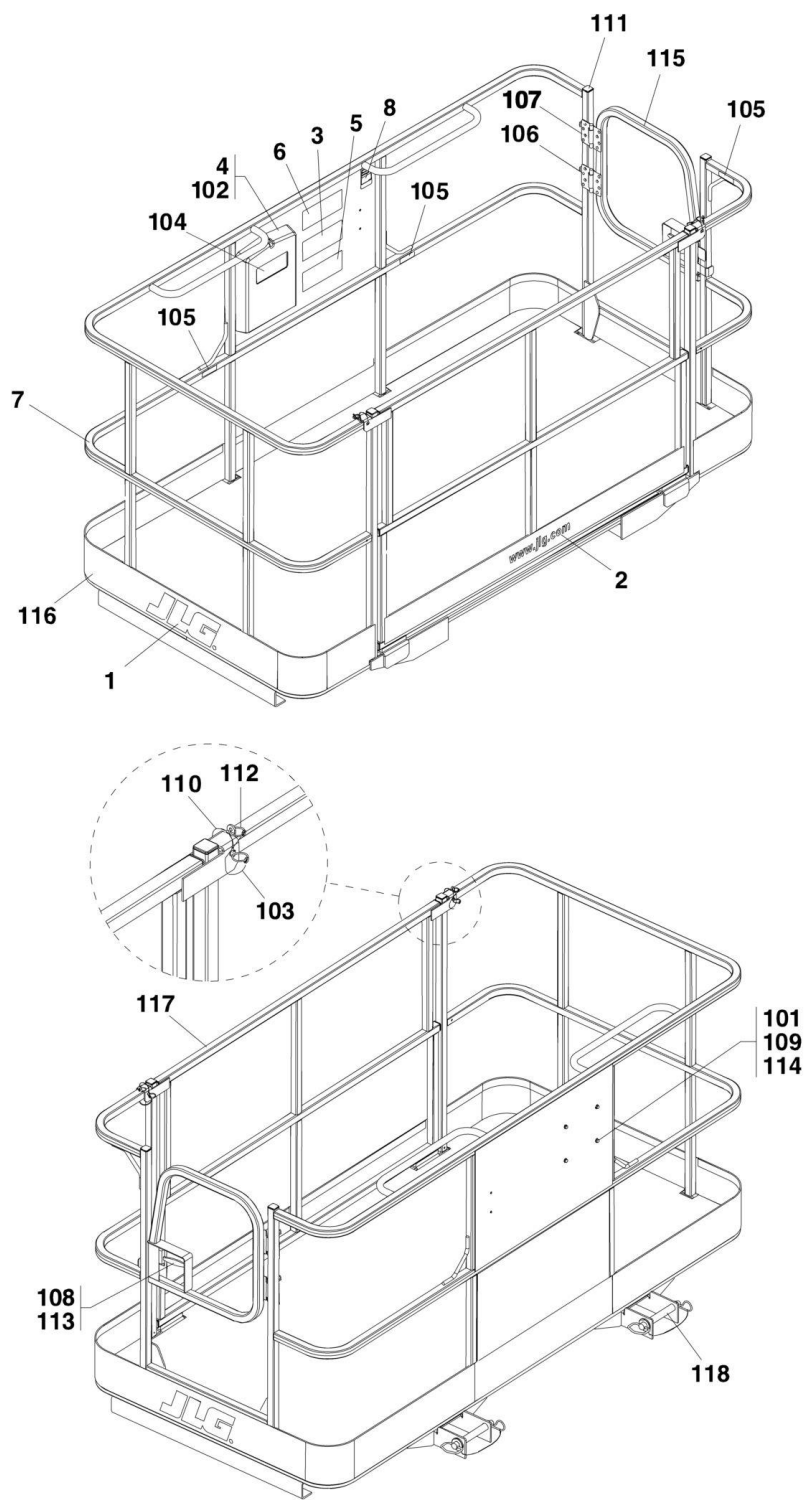
SECTION 3 - ATTACHMENTS

FIGURE 3-9. FORKS AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2340037	6	48 IN (1219 mm) CUBING FORKS, 2 IN X 2 IN (50 mm X 50 mm), 3,880 LB (1760 kg)	A
	2340045	2	48 IN (1219 mm) PALLET FORKS, 2.36 IN X 4 IN (60 mm X 102 mm), 10,950 LB (5000 kg)	B
	2340038	2	48 IN (1219 mm) PALLET FORKS, 2.36 IN X 5 IN (60 mm X 127 mm), 13,700 LB (6300 kg)	B
	2340046	2	60 IN (1524 mm) LUMBER FORKS, 1.75 IN X 7 IN (44 mm X 178 mm), 10,800 LB (5000 kg)	B
	2340039	2	60 IN (1524 mm) LUMBER FORKS, 2.36 IN X 6 IN (60 mm X 152 mm), 16,300 LB (7500 kg)	B
	1001092391	2	72 IN (1828 mm) DUEL TAPER FORKS, 2 IN X 6 IN (50mm X 152 mm), 11,300 LB (5120 kg)	B
	1001093465	Ref	FORK PIN LOCK INSTALLATION, (not available to order, see items 1 thru 5 for service)	B
1	0240156	1	FORK PIN LOCK ATTACH	D
2	1001093273	1	FORK PIN LOCK ATTACH	
3	1001093377	2	HITCH PIN	
4	1001094830	4	WIRE ROPE CLAMP	
5	1001094330	2	PIN LOCK LANYARD	
	1001137512	2	90 IN FORK EXTENSION, (includes items 101 & 102)	
101	70024306	1	PIN	
102	70024307	1	CLIP	
N1	Note	Ref	FORKS RATED LESS THAN THE ATTACHMENT OR MACHINE'S CAPACITY DECREASE 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.	
N2	Note	Ref	PLEASE CONSULT JLG PARTS DEPARTMENT TO DETERMINE THE CORRECT FORKS APPLICABLE TO YOUR SPECIFIC CARRIAGE ASSEMBLY AND APPLICATION.	

SECTION 3 - ATTACHMENTS

FIGURE 3-10. FORK MOUNTED PLATFORM



PY1640

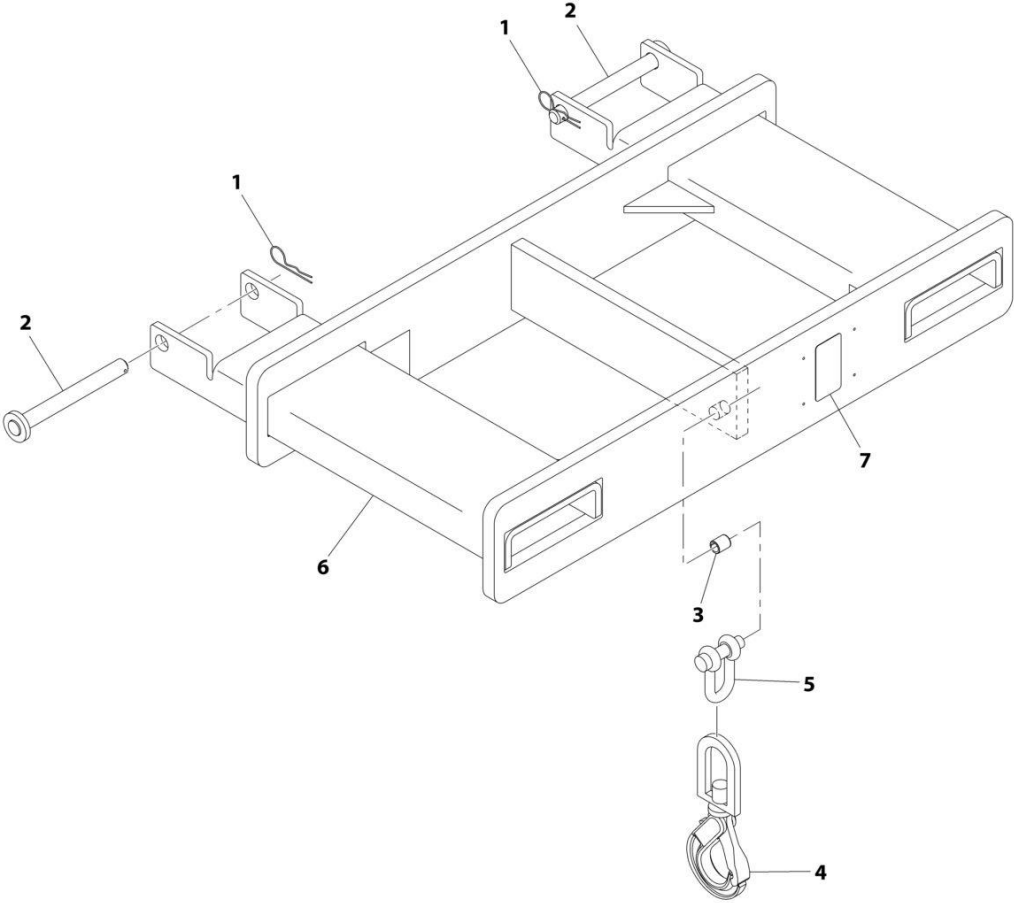
SECTION 3 - ATTACHMENTS

FIGURE 3-10. FORK MOUNTED PLATFORM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001103637	1	FORK MOUNTED PERSONNEL PLATFORM, (ASME), (includes items 1 thru 8)	E
	1001103730	1	FORK MOUNTED PERSONNEL PLATFORM, (ISO), (includes items 1 thru 8)	E
	1001103736	1	FORK MOUNTED PERSONNEL PLATFORM, (French), (includes items 1 thru 8)	E
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, (French)	
4	31200160	1	OPERATION AND SAFETY MANUAL, (ASME)	
4	31200387	1	OPERATION AND SAFETY MANUAL, (Spanish)	
4	31200388	1	OPERATION AND SAFETY MANUAL, (Portuguese)	
4	31200386	1	OPERATION AND SAFETY MANUAL, (French)	
5	1001092481	1	WARNING DECAL, (ASME)	
5	1001096021	1	WARNING DECAL, (ISO)	
5	1001096019	1	WARNING DECAL, (French)	
6	1001092482	1	CAPACITY DECAL, (ASME)	
6	1001096023	1	CAPACITY DECAL, (ISO)	
6	1001096020	1	CAPACITY DECAL, (French)	
7	1001096162	1	FORK MOUNTED PLATFORM, (includes items 101 thru 118)	J
8	N.S.S.	1	SN PLATE	
101	0641405	4	HEX HD CAPSCREW, 1/4-20X5/8	
102	0860520	1	MANUAL STORAGE BOX	
103	1060379	2	LANYARD CABLE	
104	1701509	1	MANUAL DECAL	
105	1704277	3	LANYARD ATTACH DECAL	
106	2080040	16	FASTENER	
107	2600281	2	HINGE	
108	2940074	1	LATCH	
109	3311405	4	HEX NUT, 1/4-20	
110	3421453	2	PIN	
111	3520072	10	PLUG	
112	3760170	4	RING	
113	3820020	4	RIVET	
114	4711400	8	WASHER, 1/4	
115	4846452	1	GATE WELDMENT	
116	N.S.S.	1	PLATFORM	
117	1001095810	1	GATE WELDMENT	
118	1001102813	2	HITCH PIN	

SECTION 3 - ATTACHMENTS

FIGURE 3-11. FORK MOUNTED HOOK



ART_1001097205-I

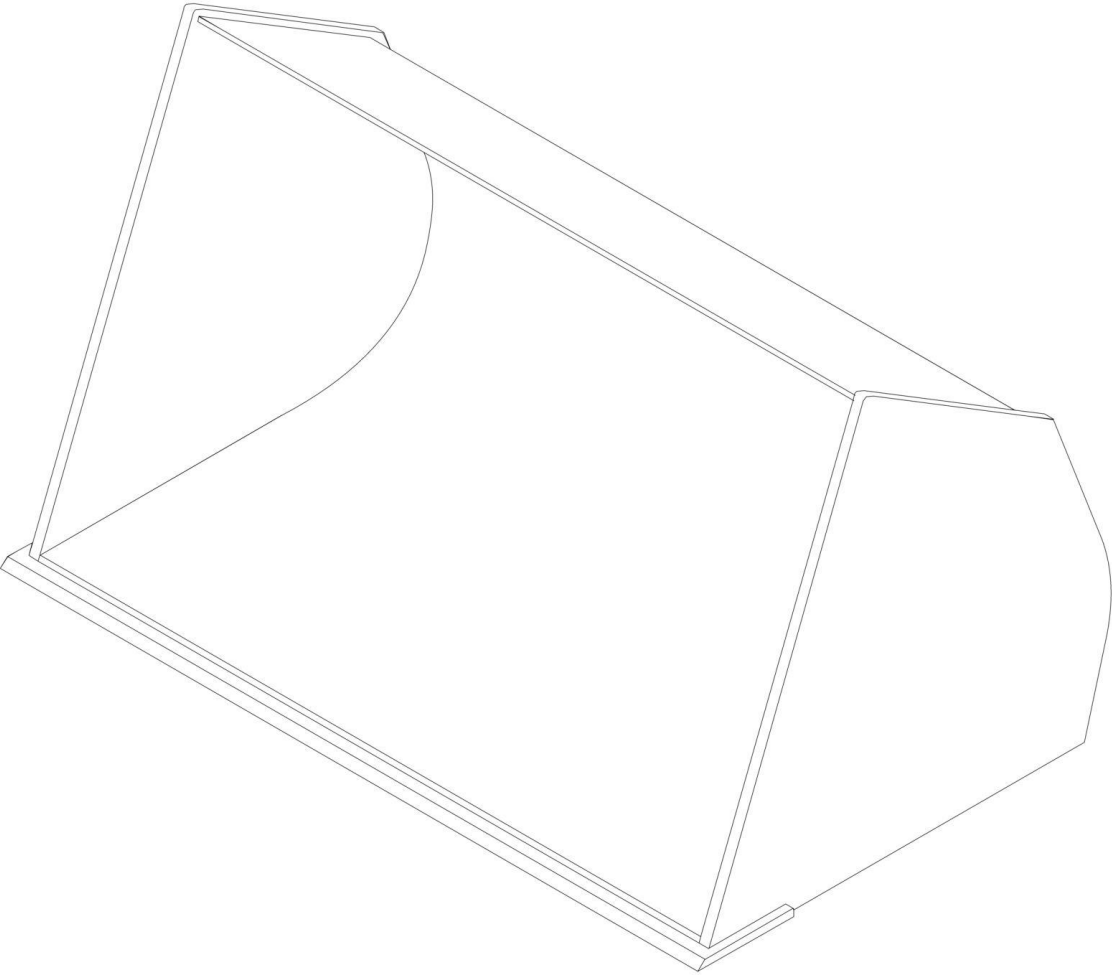
SECTION 3 - ATTACHMENTS

FIGURE 3-11. FORK MOUNTED HOOK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91565094	NLA	LIFTING HOOK, (no longer available, use 1001097205 for replacement or items 1 through 7 for service)	G
	1001097205	1	FORK MOUNTED HOOK, (includes all items)	G
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	

SECTION 3 - ATTACHMENTS

FIGURE 3-12. GENERAL PURPOSE BUCKET



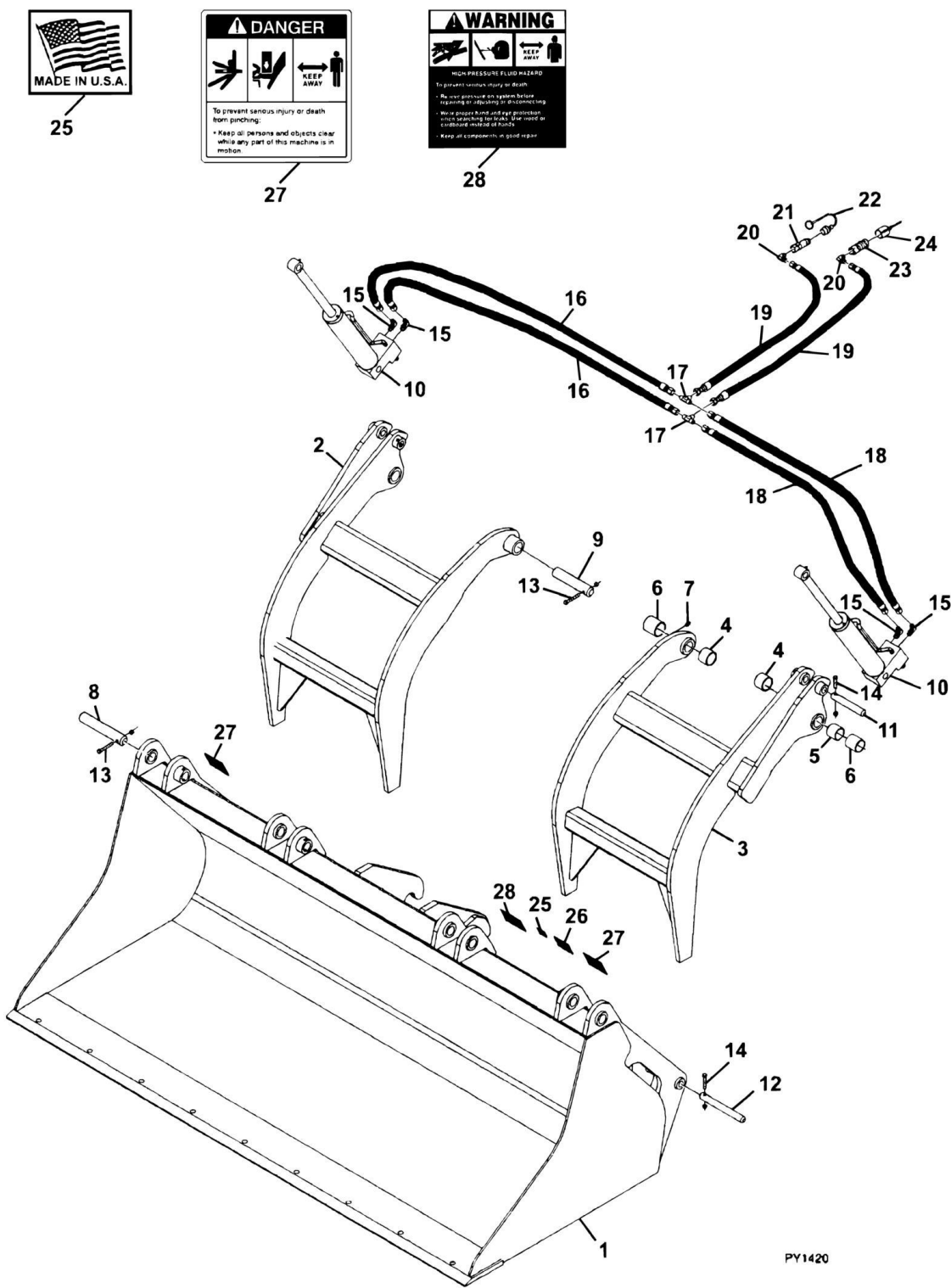
SECTION 3 - ATTACHMENTS

FIGURE 3-12. GENERAL PURPOSE BUCKET

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100822	1	72 IN BUCKET, 1.0 ³ YARD	C
	1001100823	1	96 IN BUCKET, 1.5 ³ YARD	C
	1001100824	1	102 IN BUCKET, 2.0 ³ YARD	C

SECTION 3 - ATTACHMENTS

FIGURE 3-13. GRAPPLE BUCKET



PY1420

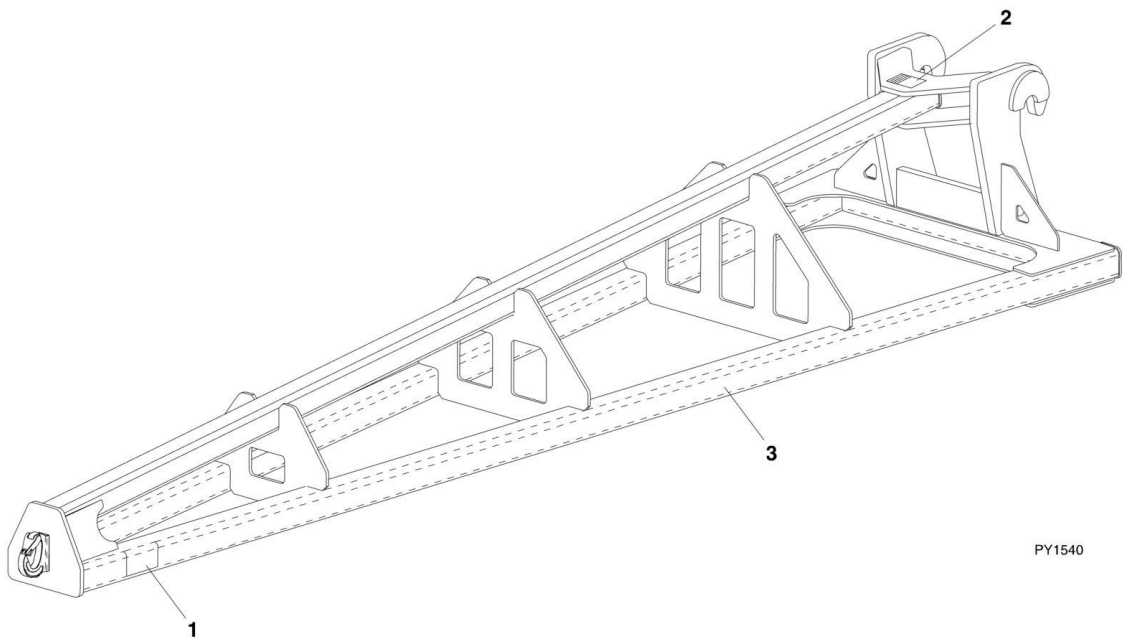
SECTION 3 - ATTACHMENTS

FIGURE 3-13. GRAPPLE BUCKET

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	0930020	1	GRAPPLE BUCKET, (includes all items)	H
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 AND MOUNTING HARDWARE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
11		Ref	CYLINDER PIN, (base end), (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
12		Ref	CYLINDER PIN, (rod end), (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
13	70021366	4	HEX HD CAPSCREW, 3/8X2-3/4	
13	70021367	4	LOCK NUT, 3/8	
14		Ref	HEX HD CAPSCREW, 3/8X2-1/4, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
14		Ref	LOCK NUT, 3/8, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
15	90554065	4	ELBOW, 90	
16	70021980	2	HOSE ASSY, 3/8X73	
17	70020562	2	FITTING, TEE	
18	70021981	2	HOSE ASSY, 3/8X46	
19	70021982	2	HOSE ASSY, 3/8X34	
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	MADE IN USA DECAL	
26	N.S.S.	1	SN PLATE	
27	90554017	2	DANGER PINCH POINT DECAL	
28	90554018	1	WARNING HIGH PRESSURE DECAL	

SECTION 3 - ATTACHMENTS

FIGURE 3-14. TRUSS BOOM



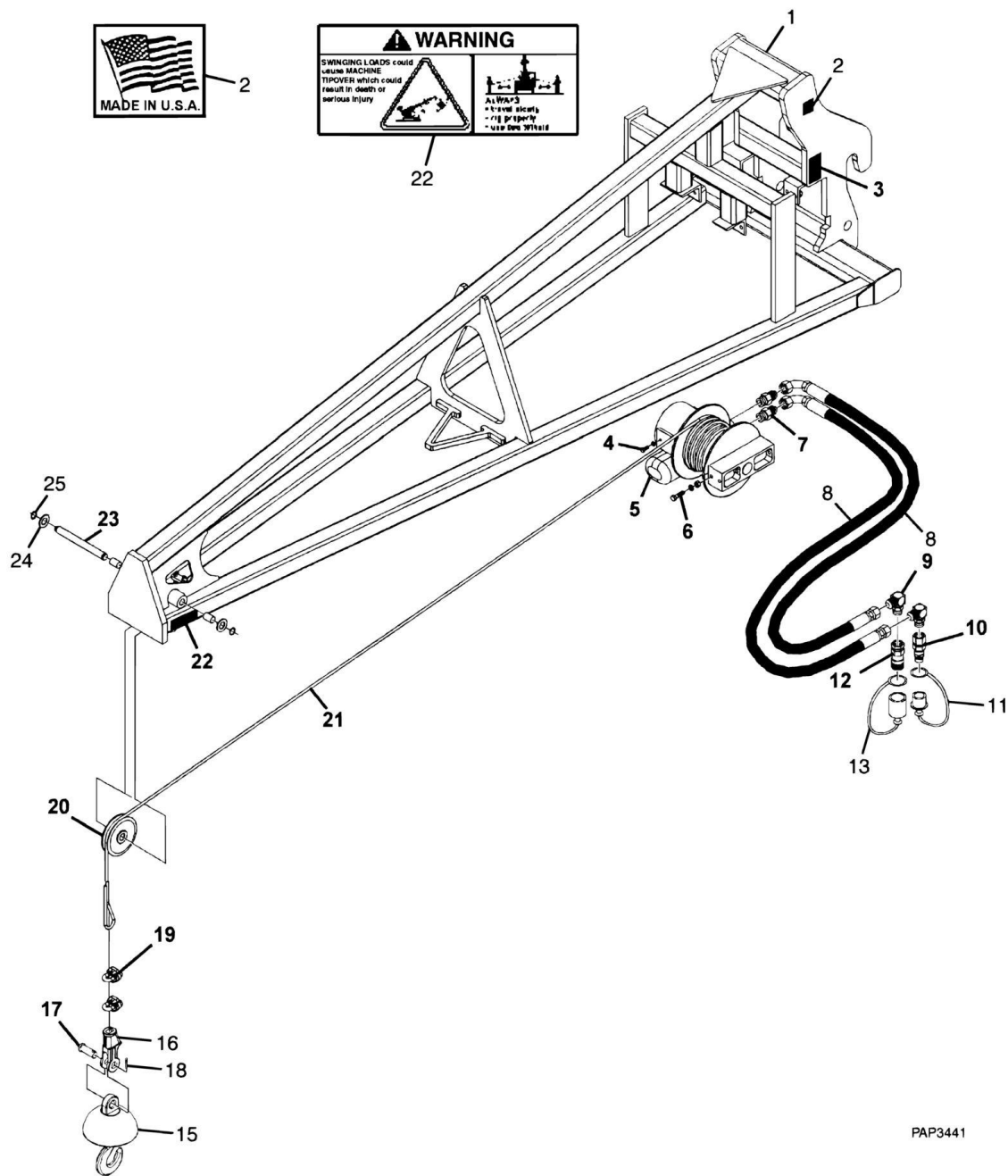
SECTION 3 - ATTACHMENTS

FIGURE 3-14. TRUSS BOOM

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

SECTION 3 - ATTACHMENTS

FIGURE 3-15. TRUSS BOOM WITH WINCH



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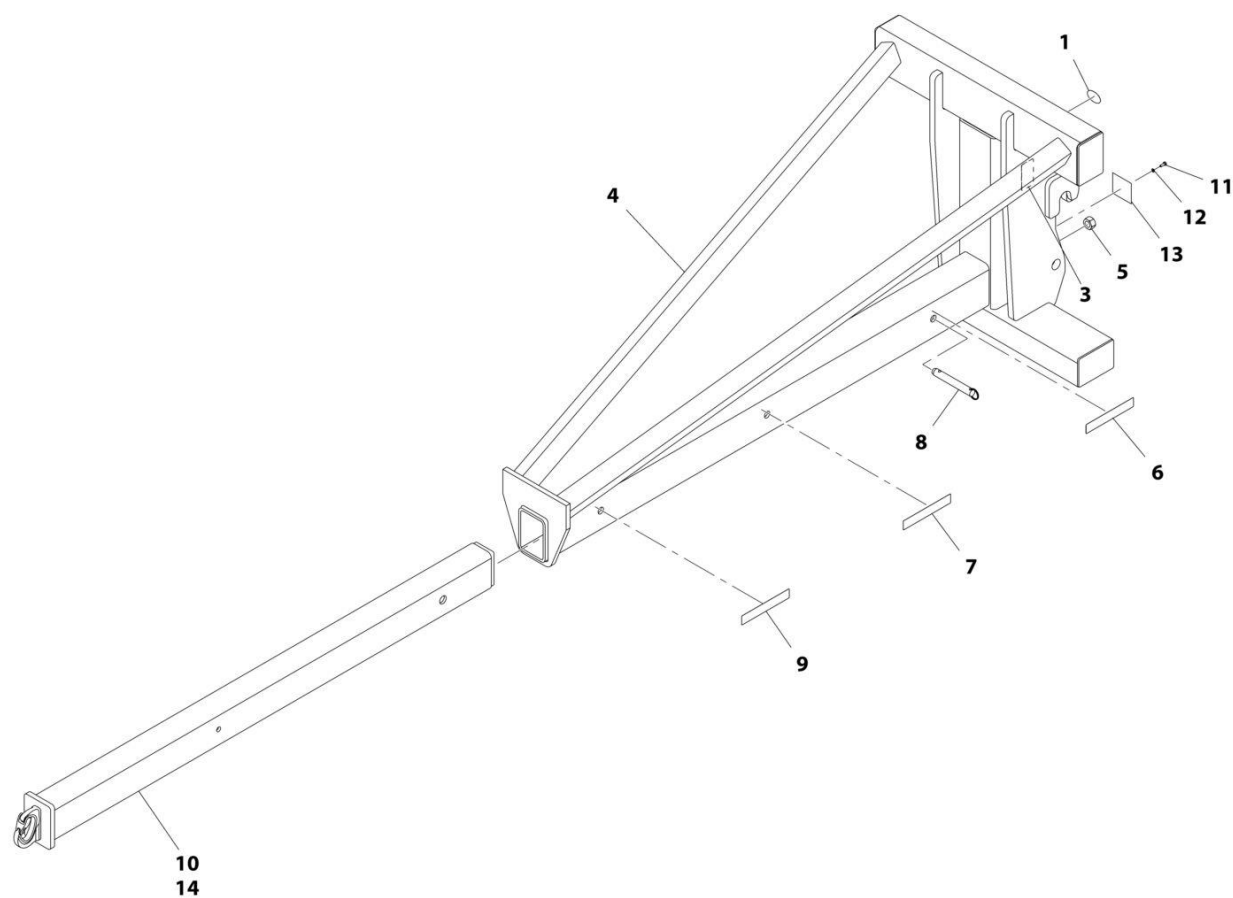
SECTION 3 - ATTACHMENTS

FIGURE 3-15. TRUSS BOOM WITH WINCH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001099351	1	12 FT TRUSS BOOM WITH WINCH, (includes all items)	G
1	N.S.S.	1	TRUSS BOOM FRAME	
2	90554016	1	MADE IN USA DECAL	
3	N.S.S.	1	SN PLATE	
4	70021349	4	HEX HD CAPSCREW, 3/8X1	
4	90554042	4	LOCKWASHER, 3/8	
5	70021921	1	TRUSS BOOM WINCH MOTOR	
6	N.S.S.	2	HEX HD CAPSCREW, 1/2X1-3/4	
6	90554020	2	LOCKWASHER, 1/2	
6	90554054	2	HEX NUT, 1/2	
7	70021415	2	CONNECTOR	
8	70021977	2	HOSE ASSY, 3/8X32	
9	N.S.S.	2	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	
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	

SECTION 3 - ATTACHMENTS

FIGURE 3-16. ADJUSTABLE TRUSS BOOM



ART_1001176515-C

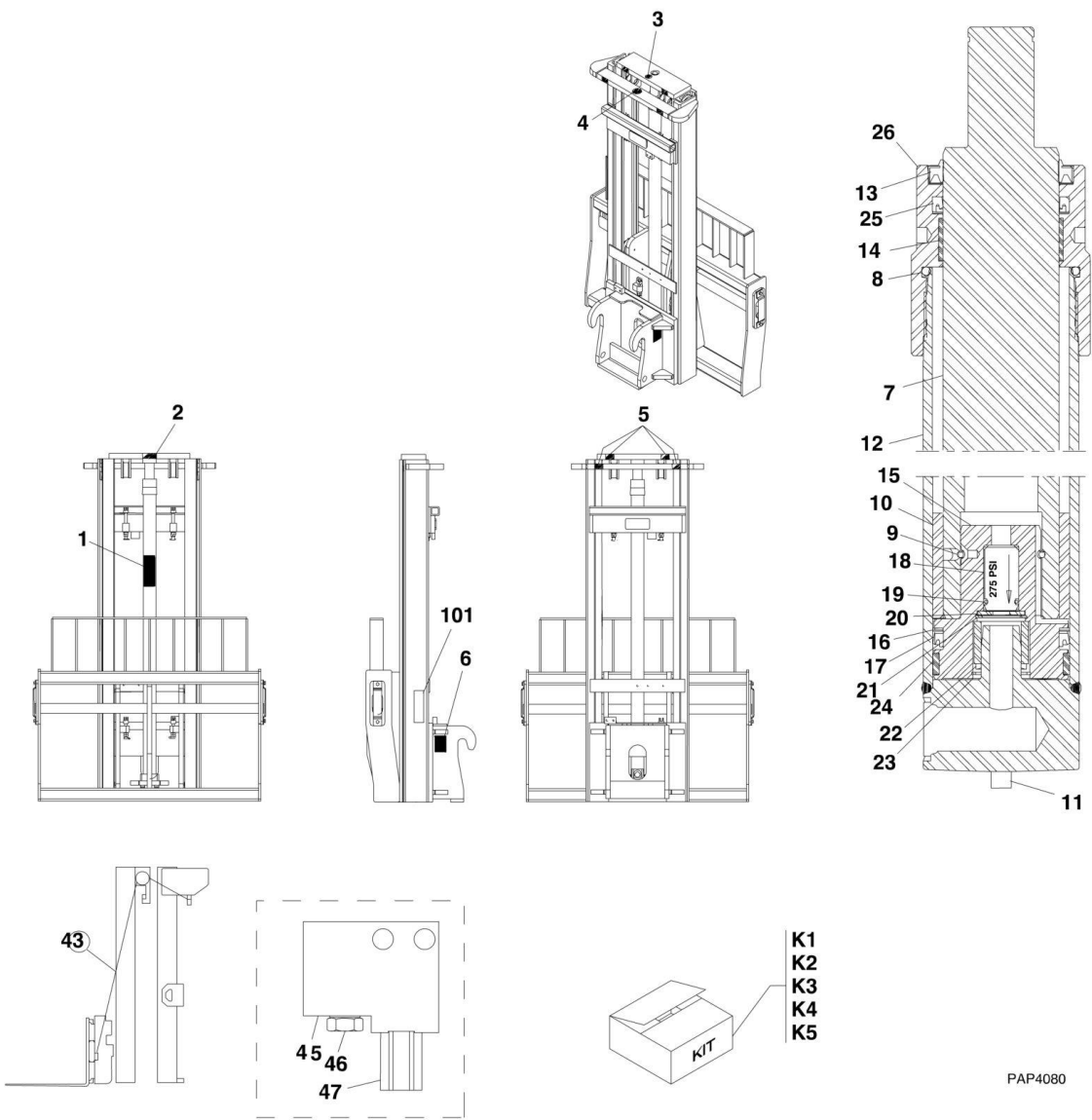
SECTION 3 - ATTACHMENTS

FIGURE 3-16. ADJUSTABLE TRUSS BOOM

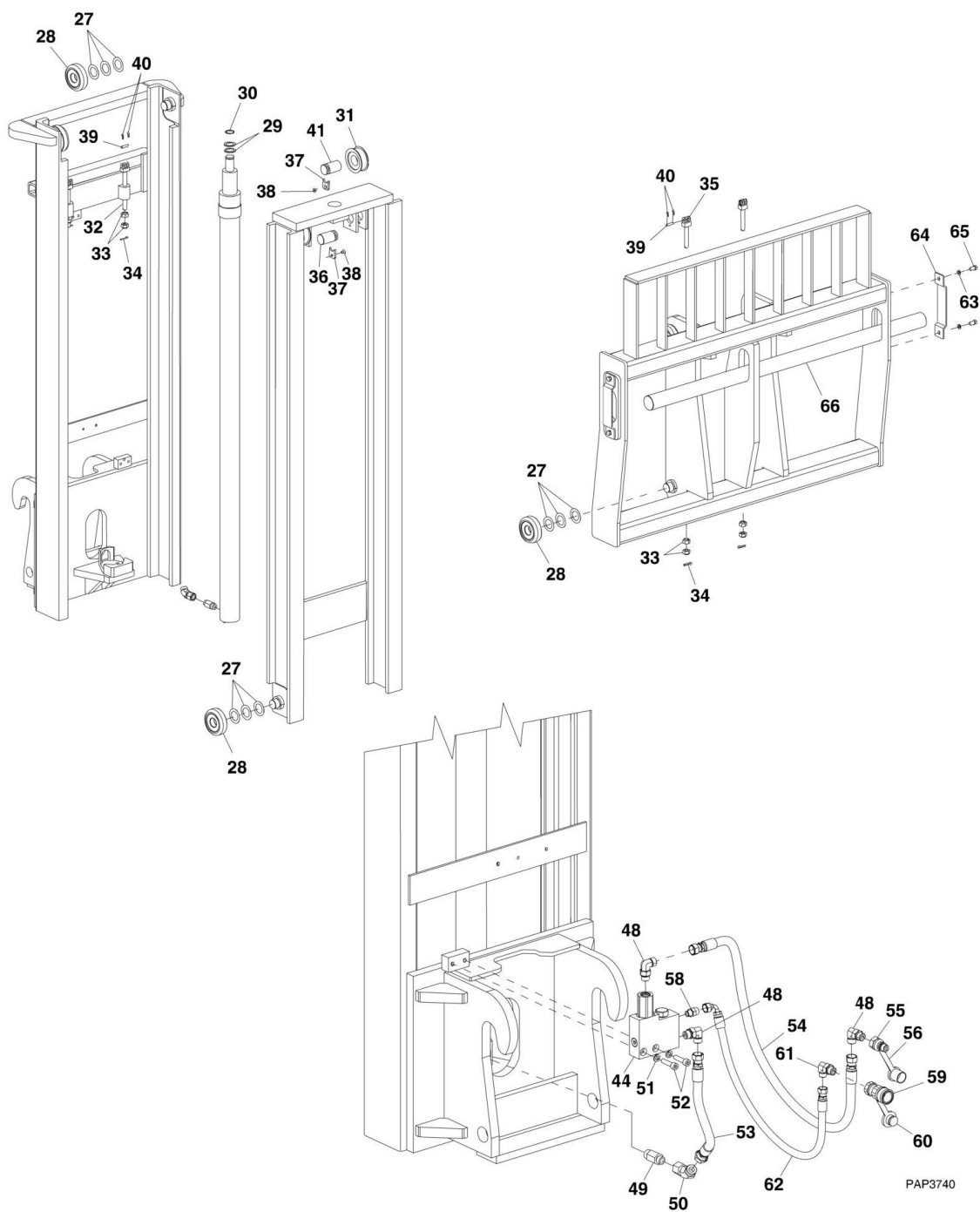
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001176515	1	ADJUSTABLE TRUSS BOOM	A
1	90554016	1	DECAL, MADE IN USA	
3	N.S.S.	1	SN PLATE	
4	N.S.S.	1	TRUSS BOOM, ADJUSTABLE	
5	70021440	1	NUT, LOCK	
6	70024062	2	DECAL, 4000 LBS CAP	
7	70026944	2	DECAL, 3000 LBS CAP	
8	70026946	1	PIN	
9	70026699	2	DECAL, 2000 LBS CAP	
10	70026747	1	STOP ROD, BOOM EXTENSION	
11	90554033	1	BOLT, 3/4X1/4	
12	90554034	1	WASHER, LOCK 1/4	
13	70026948	1	PLATE, STOP	
14	70026949	1	BOOM, TELESCOPIC	

SECTION 3 - ATTACHMENTS

FIGURE 3-17. 8 FOOT STANDARD MAST



SECTION 3 - ATTACHMENTS



SECTION 3 - ATTACHMENTS

FIGURE 3-17. 8 FOOT STANDARD MAST

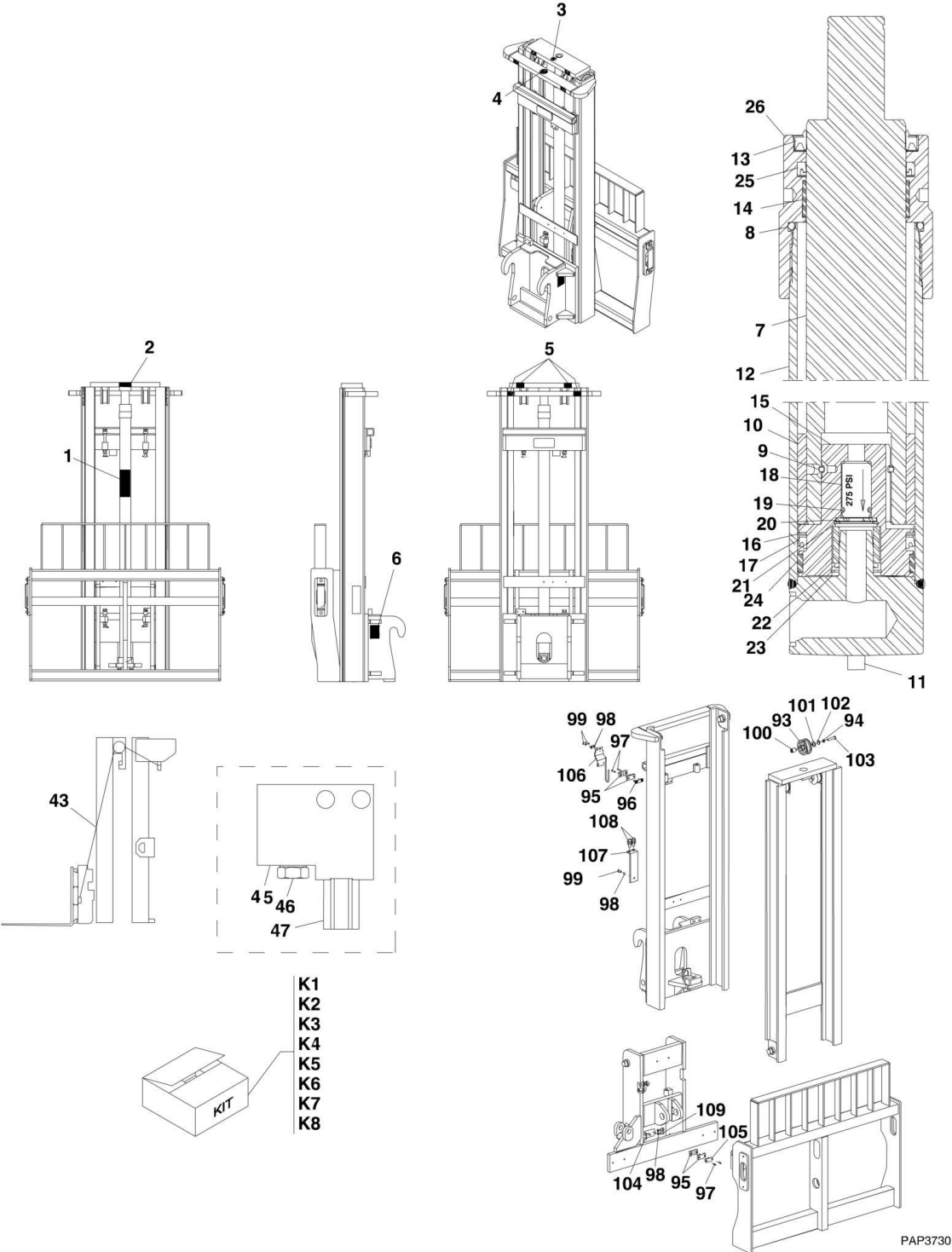
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108668	1	8 FT STANDARD MAST, (4500 lb), (includes all items)	C
1	Kit	1	WARNING DECAL	
2	Kit	1	WARNING DECAL	
3	Kit	1	NO STEP DECAL	
4	Kit	1	NO STEP DECAL	
5	Kit	4	HANDS OFF DECAL	
6	Kit	2	HOSE ROUTING DECAL	
	70023008	1	MAIN LIFT CYLINDER, (includes items 7 thru 26)	
7	N.S.S.	1	ROD/PLUNGER	
8	Kit	1	O-RING	
9	Kit	1	PULL WIRE	
10	N.S.S.	1	SPACER	
11	N.S.S.	2	ROLL PIN	
12	N.S.S.	1	BARREL	
13	Kit	1	WIPER	
14	Kit	1	BUSHING	
15	N.S.S.	1	PISTON	
16	Kit	1	NYLON RING	
17	Kit	1	PISTON SEAL	
18	Kit	1	CHECK VALVE	
19	Kit	1	O-RING	
20	Kit	1	WASHER	
21	Kit	1	CIRCLIP	
22	N.S.S.	1	SLEEVE	
23	Kit	1	RETAINING RING	
24	Kit	1	WEAR RING	
25	Kit	1	ROD SEAL	
26	70023004	1	RETAINER/GLAND	
27	70023014	24	SHIM	
28	70022987	8	BALL BEARING	
29	Kit	2	WASHER SHIM	
30	70023016	1	SNAP RING	
31	70022969	2	SHEAVE ASSY	
32	70022960	2	CHAIN ANCHOR	
33	70022957	8	NUT, 0.625-18UNF	
34	70022993	4	COTTER PIN	
35	70022995	2	CHAIN ANCHOR	
36	70022984	1	SHEAVE SHAFT	
37	70022970	2	RETAINER BAR	
38	70023003	2	FLAT HD CAPSCREW	
39	70022994	4	CHAIN ANCHOR PIN	
40	70022992	8	COTTER PIN	
41	70022985	1	SHEAVE SHAFT	
43	70023009	2	LIFT CHAIN	
44	70022932	1	PO CHECK VALVE ASSY, (includes items 45, 46 & 47)	
45	N.S.S.	1	MANIFOLD	
46	70022931	1	PO CHECK VALVE CARTRIDGE	
47	70023010	1	PO CHECK	
48	70022934	3	FITTING, 90	
49	70022936	1	FLOW LIMITER	

SECTION 3 - ATTACHMENTS

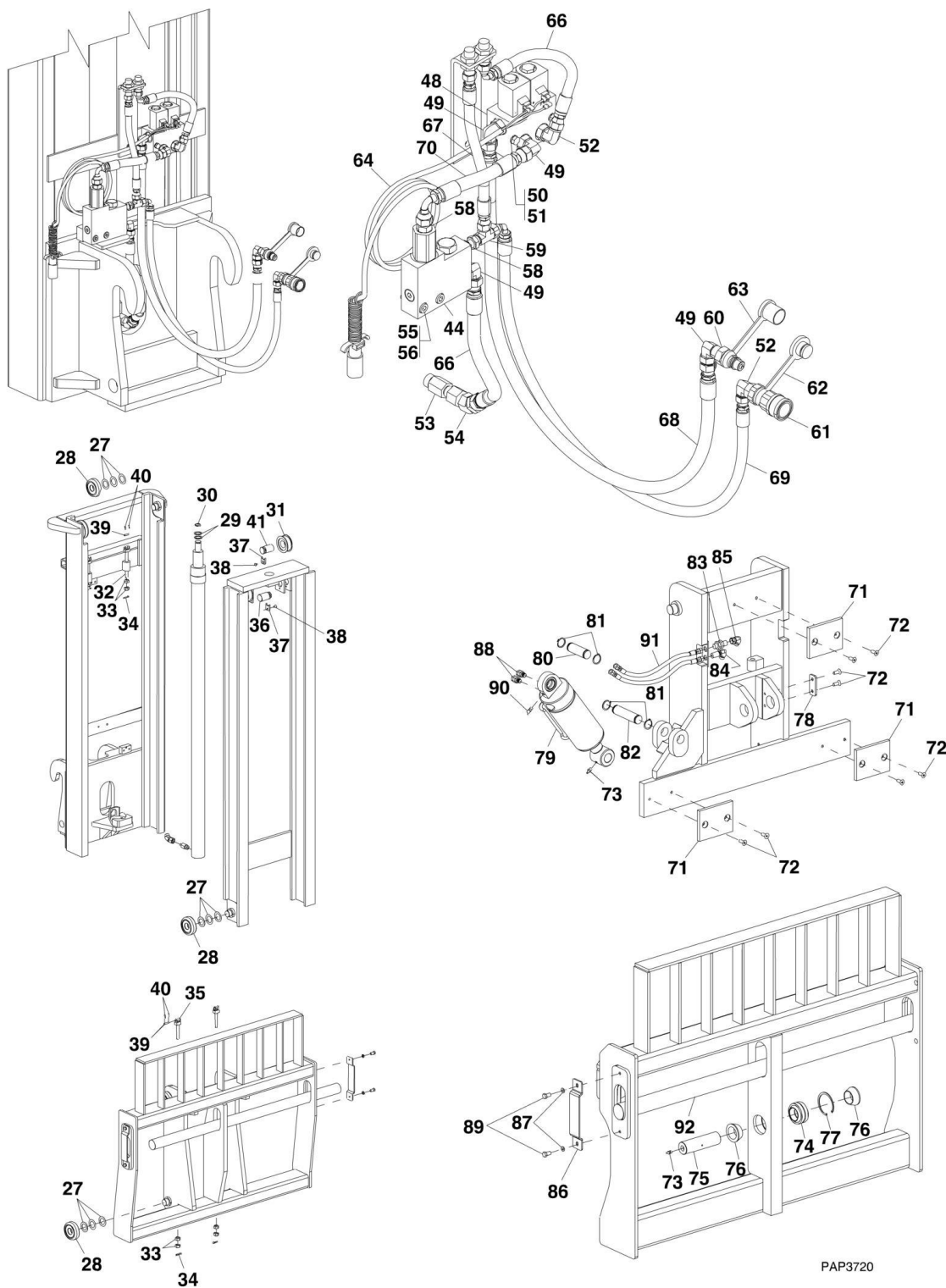
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	70022937	1	FITTING, 45	
51	70022949	2	LOCKWASHER, M10	
52	70022950	2	HEX SOCKET CAPSCREW	
53	70022942	1	HOSE ASSY	
54	70022952	1	HOSE ASSY	
55	91403414	1	MALE QUICK DISCONNECT COUPLING	
56	91043126	1	DUST CAP	
58	70022939	1	STRAIGHT FITTING, #6	
59	91403413	1	FEMALE QUICK DISCONNECT COUPLING	
60	91043125	1	DUST PLUG	
61	70022935	1	STRAIGHT THREAD ELBOW	
62	70022946	1	HOSE ASSY	
63	70022949	4	LOCKWASHER, M10	
64	70022980	2	FORK PIN KEEPER	
65	70022998	4	CAPSCREW, M10X20	
66	70022990	1	FORK PIN	
101	N.S.S.	1	SN PLATE	
K1	70023925	1	DECAL KIT, (includes items 1 thru 6)	
K2	70023005	1	MAIN LIFT CYLINDER SEAL KIT, (includes items 8, 9, 13, 14, 16, 17, 19, 21 & 23 thru 25)	
K3	70023006	1	CHECK VALVE KIT, (includes items 18 thru 21 & 23)	
K4	70023007	1	SHIM KIT	
K5	70023015	1	MAST COMMON PARTS KIT, (includes items 27 thru 41)	

SECTION 3 - ATTACHMENTS

FIGURE 3-18. 8 FT SIDE TILT ELECTRIC MAST



SECTION 3 - ATTACHMENTS



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SECTION 3 - ATTACHMENTS

FIGURE 3-18. 8 FT SIDE TILT ELECTRIC MAST

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108669	1	8 FT SIDE TILT ELECTRIC MAST, (includes all items)	D
1	Kit	1	WARNING DECAL	
2	Kit	1	WARNING DECAL	
3	Kit	1	NO STEP DECAL	
4	Kit	1	NO STEP DECAL	
5	Kit	4	HANDS OFF DECAL	
6	Kit	2	HOSE ROUTING	
6	70023008	1	MAIN LIFT CYLINDER, (includes items 7 thru 26)	
7	N.S.S.	1	ROD/PLUNGER	
8	Kit	1	O-RING	
9	Kit	1	PULL WIRE	
10	N.S.S.	1	SPACER	
11	N.S.S.	2	ROLL PIN	
12	N.S.S.	1	BARREL	
13	Kit	1	WIPER	
14	Kit	1	BUSHING	
15	N.S.S.	1	PISTON	
16	Kit	1	NYLON RING	
17	Kit	1	PISTON SEAL	
18	Kit	1	CHECK VALVE	
19	Kit	1	O-RING	
20	Kit	1	WASHER	
21	Kit	1	CIRCLIP	
22	N.S.S.	1	SLEEVE	
23	Kit	1	RETAINING RING	
24	Kit	1	WEAR RING	
25	Kit	1	ROD SEAL	
26	70023004	1	RETAINER/GLAND	
27	70023014	24	SHIM	
28	70022987	8	BALL BEARING	
29	Kit	2	WASHER SHIM	
30	70023016	1	SNAP RING	
31	70022969	2	SHEAVE ASSY	
32	70022960	2	CHAIN ANCHOR	
33	70022957	8	NUT, 0.625-18UNF	
34	70022993	4	COTTER PIN	
35	70022995	2	CHAIN ANCHOR	
36	70022984	1	SHEAVE SHAFT	
37	70022970	2	RETAINER BAR	
38	70023003	2	FLAT HD CAPSCREW	
39	70022994	4	PIN, CHAIN ANCHOR	
40	70022992	8	COTTER PIN	
41	70022985	1	SHEAVE SHAFT	
43	70023009	2	LIFT CHAIN	
44	70022932	1	PO CHECK VALVE ASSY, (includes items 45, 46 & 47)	
45	N.S.S.	1	MANIFOLD	
46	70022931	1	PO CHECK VALVE CARTRIDGE	
47	70023010	1	P.O. CHECK	
48	70022933	1	SOLENOID VALVE BANK	
49	70022934	4	FITTING, 90	

SECTION 3 - ATTACHMENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	70022948	2	LOCKWASHER, M8	
51	70022951	2	CAPSCREW, M8X60	
52	70022935	2	STRAIGHT THREAD ELBOW	
53	70022936	1	FLOW LIMITER	
54	70022937	1	FITTING, 45	
55	70022949	2	LOCKWASHER, M10	
56	70022950	2	HEX SOCKET CAPSCREW	
57	70022938	1	STRAIGHT FITTING	
58	70022939	1	STRAIGHT FITTING, #6	
59	70022940	1	TEE FITTING	
60	91403414	1	MALE QUICK DISCONNECT COUPLING	
61	91403413	1	FEMALE QUICK DISCONNECT COUPLING	
62	91043125	1	DUST PLUG	
63	91043126	1	DUST CAP	
64	70022941	1	HARNESS	
65	70022942	1	HOSE ASSY	
66	70022943	1	HOSE ASSY	
67	70022944	1	HOSE ASSY	
68	70022945	1	HOSE ASSY	
69	70022946	1	HOSE ASSY	
70	70022947	1	HOSE ASSY	
71	70022972	3	WEAR PAD	
72	70022971	8	FLAT HD CAPSCREW	
73	70023001	2	GREASE FITTING	
74	70022975	1	BEARING	
75	70022973	1	PIVOT SHAFT	
76	70022974	2	BEVELED SPACER	
77	70022988	1	RETAINING RING	
78	70022976	1	RETAINER PLATE	
79	2716143	1	TILT CYLINDER	
80	70022977	1	PIN, 128.1mm	
81	70023016	4	SNAP RING, 1-1/4	
82	70022978	1	PIN, 128.1mm	
83	70023000	1	BULKHEAD UNION, (with locknut)	
84	70022999	1	BULKHEAD UNION ELBOW	
85	70022982	1	STRAIGHT THREAD ELBOW	
86	70022980	2	FORK PIN KEEPER	
87	70022949	4	LOCKWASHER, M10	
88	70022991	2	STRAIGHT THREAD ELBOW, 90	
89	70022998	4	CAPSCREW, M10X20 LG	
90	70022966	1	GREASE FITTING	
91	70022979	2	HOSE ASSY	
92	70022990	1	FORK PIN	
93	70022965	1	SHEAVE	
94	70022997	1	LOCKWASHER, M12	
95	70022967	4	HOSE CLAMP	
96	70022962	1	BAR ASSY	
97	70023002	4	CAPSCREW, M6X25 LG	
98	70022949	5	LOCKWASHER, M10	
99	70022958	3	CAPSCREW, M10X20	
100	70022961	1	SHAFT	

SECTION 3 - ATTACHMENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
101	70022959	1	WASHER	
102	70022989	1	RETAINING RING	
103	70022964	1	CAPSCREW, M12X55	
104	70022981	1	IHR BRACKET	
105	70022968	1	HOSE CLAMP BAR	
106	70023011	1	IHR BRACKET	
107	70022983	1	TERMINATION BRACKET	
108	70023000	2	BULKHEAD UNION AND LOCKNUT	
109	70022996	3	CAPSCREW, M10X16 LG	
110	70022963	2	HOSE ASSY, (not shown)	
K1	70023925	1	DECAL KIT, (includes items 1 thru 6)	
K2	70023005	1	SEAL KIT, MAIN LIFT CYLINDER, (includes items 8, 9, 13, 14, 16, 17, 19, 21, 23, 24 & 25)	
K3	70023006	1	CHECK VALVE KIT, (includes items 18, 19, 20, 21 & 23)	
K4	70023007	1	SHIM KIT	
K5	70023015	1	MAST COMMON PARTS KIT, (includes items 27 thru 42)	
K6	8035831	1	SEAL KIT, TILT CYLINDER	
K7	70023013	1	IHR COMMON PARTS KIT, (includes items 93 thru 109)	
K8	70022986	1	IHR KIT, (includes items 93 thru 110)	

SECTION 4 - ENGINE AND ATTACHING PARTS

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G10-55A,G12-55A



SECTION 4 - ENGINE AND ATTACHING PARTS

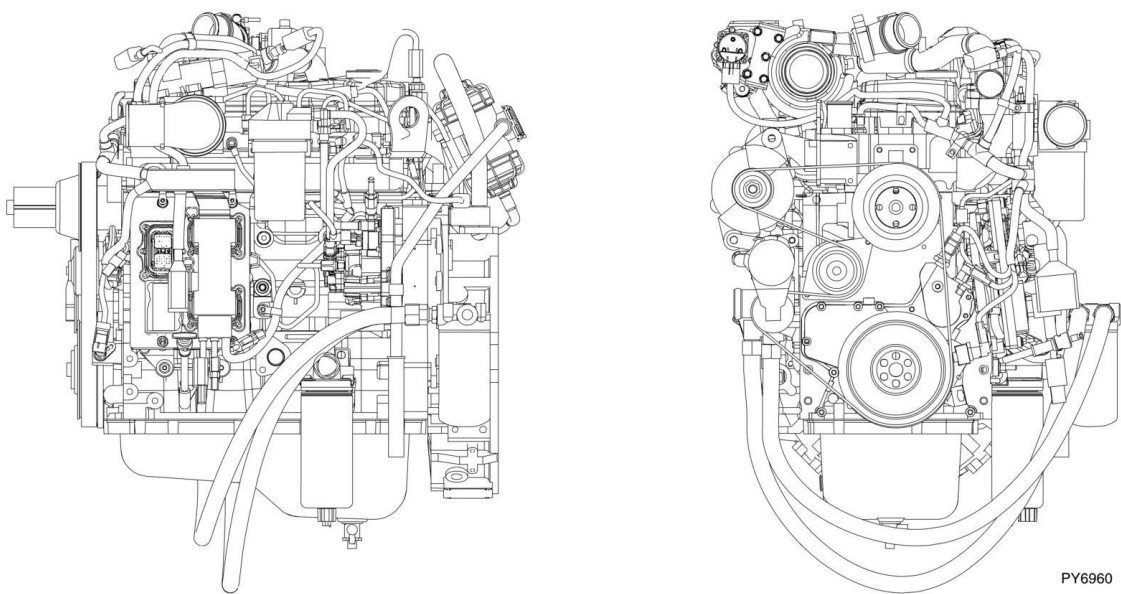
FIGURE 4-1. ENGINE INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001130098	Ref	ENGINE INSTALLATION, (if equipped for ULS), (not available to order, see items 1 thru 44 for service)	O
	1001136090	Ref	ENGINE INSTALLATION, (if equipped for LS), (not available to order, see items 1 thru 44 for service)	H
1		Ref	HEX HD CAPSCREW, 1/4-20X3/4, GR5, (See ELECTRICAL SECTION for Breakdown)	
2	0641520	1	HEX HD CAPSCREW, 5/16-18X2-1/2, GR5, (not shown)	
4	0682036	4	HEX HD CAPSCREW, 5/8-11X4-1/2, GR8	
5	0700812	4	HEX HD CAPSCREW, M8X25, GR8.8, (if equipped for ULS)	
5	0760810	4	HEX HD CAPSCREW, M8X20, (if equipped for LS)	
6	0701027	4	HEX HD CAPSCREW, M10X100, GR8.8	
7	0701215	4	HEX HD CAPSCREW, M12X35, GR8.8	
8	0701216	6	HEX HD CAPSCREW, M12X40, GR8.8	
9	0701617	6	HEX HD CAPSCREW, M16X45, GR8.8	
10	0761214	3	HEX HD CAPSCREW, 12X30mm, GR8.8, (if equipped for ULS)	
12	3575947	1	FAN HUB PLATE	
15	8307107	4	WASHER	
17	4812100	6	WASHER, 12mm	
18	4812300	6	WASHER, 16mm	
19	4831900	4	SPRING LOCKWASHER, 8mm, (if equipped for ULS)	
19	88551009	4	LOCKWASHER, 1/4, (if equipped for LS)	
20	4832100	7	SPRING LOCKWASHER, 12mm, (if equipped for ULS)	
20	4832100	4	SPRING LOCKWASHER, 12mm, (if equipped for LS)	
21	7300435	4	WASHER	
22	3272001	4	HEX LOCKNUT, 5/8-11, GR8	
26	8750024	1	CLAMP SET, 1.18, (not shown)	
27	8750025	1	COVER PLATE, (not shown)	
31		Ref	TRANSMISSION, (See DRIVE TRAIN SECTION for Breakdown)	
33	1001136919	1	FUEL FILTER MOUNT PLATE, (if equipped for ULS)	
34	1001121309	4	MOUNT	
35	1001121883	1	BRACKET	
36	1001137239	1	BRACKET	
37	1001122234	1	FAN	
38		Ref	SUPPORT CLAMP, (See FUEL TANK AND LINES for Breakdown for Breakdown)	
39		Ref	ENGINE, (See ENGINE for Breakdown)	
41	1001131022	1	BRACKET	
43	1001139038	1	FILTER BRACKET	
44		Ref	TIE WRAP, (not shown), (See FUEL TANK AND LINES for Breakdown)	
101		Ref	ENGINE POD, (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-2. ENGINE

IF EQUIPPED FOR ULS



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SECTION 4 - ENGINE AND ATTACHING PARTS

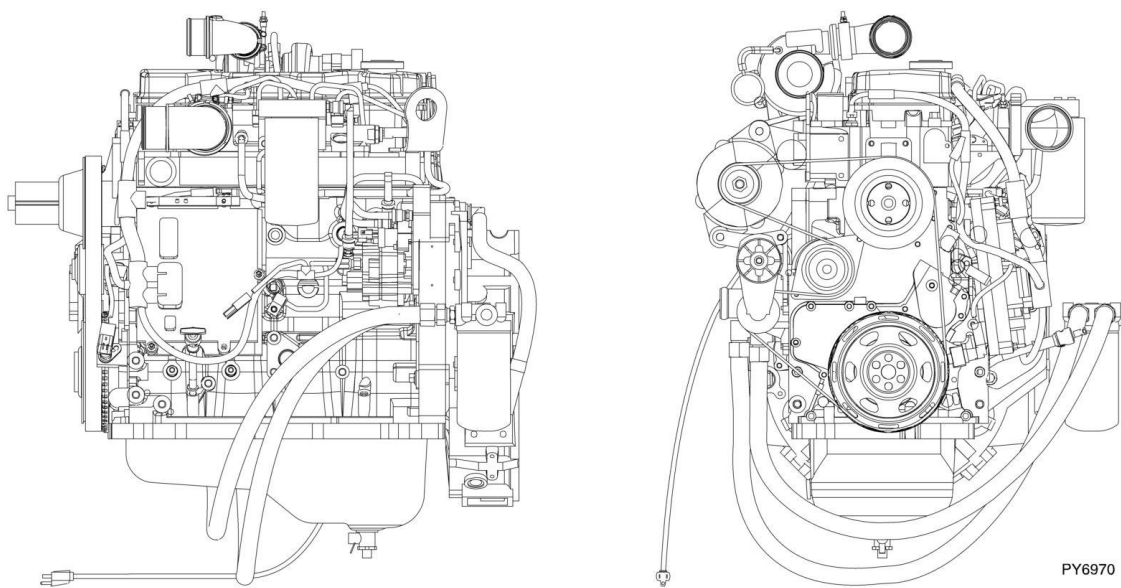
FIGURE 4-2. ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001128428	1	ENGINE, 130HP, (if equipped for ULS), (includes all items) (Prior to SN 0160067381, Excluding 0160047286)	E
	1001182934	1	ENGINE, 130HP, (if equipped for ULS), (includes all items) (SN 0160067381 to Present, Including 0160047286)	A
	70024309	1	FAN BELT	
	70024310	1	ALTERNATOR	
	70024311	1	STARTER	
	70020358	1	OIL FILTER ELEMENT	
	70020350	1	DIPSTICK	
	70020351	1	DIPSTICK TUBE	
	70024312	1	OIL FILL CAP	
	70024313	1	THERMOSTAT	
	70024314	1	FUEL FILTER ELEMENT, (primary)	
	70024315	1	FUEL FILTER ELEMENT, (secondary)	
	70021803	1	OIL PAN PLUG	
	70024284	1	CRANKCASE VENT FILTER ELEMENT	
	1001150521	1	FILTER KIT, 250 HOUR, (if equipped for ULS), (includes all items)	A
	70020358	1	ENGINE OIL FILTER	
	70024314	1	PRIMARY FUEL FILTER	
	70024315	1	SECONDARY FUEL FILTER	
	70024175	1	PRIMARY AIR FILTER ELEMENT	
	70024176	1	SECONDARY AIR FILTER ELEMENT	
	1001150522	1	FILTER KIT, 1000 HOUR, (if equipped for ULS), (includes all items)	A
	70020358	1	ENGINE OIL FILTER	
	70024314	1	PRIMARY FUEL FILTER	
	70024315	1	SECONDARY FUEL FILTER	
	70024175	1	PRIMARY AIR FILTER ELEMENT	
	70024176	1	SECONDARY AIR FILTER ELEMENT	
	70024152	1	HYDRAULIC RETURN FILTER	
	1340021	1	HYDRAULIC BREATHER	
	70024284	1	CRANKCASE VENT FILTER ELEMENT	
	1319726	1	TRANSMISSION FILTER	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-3. ENGINE

IF EQUIPPED FOR LS



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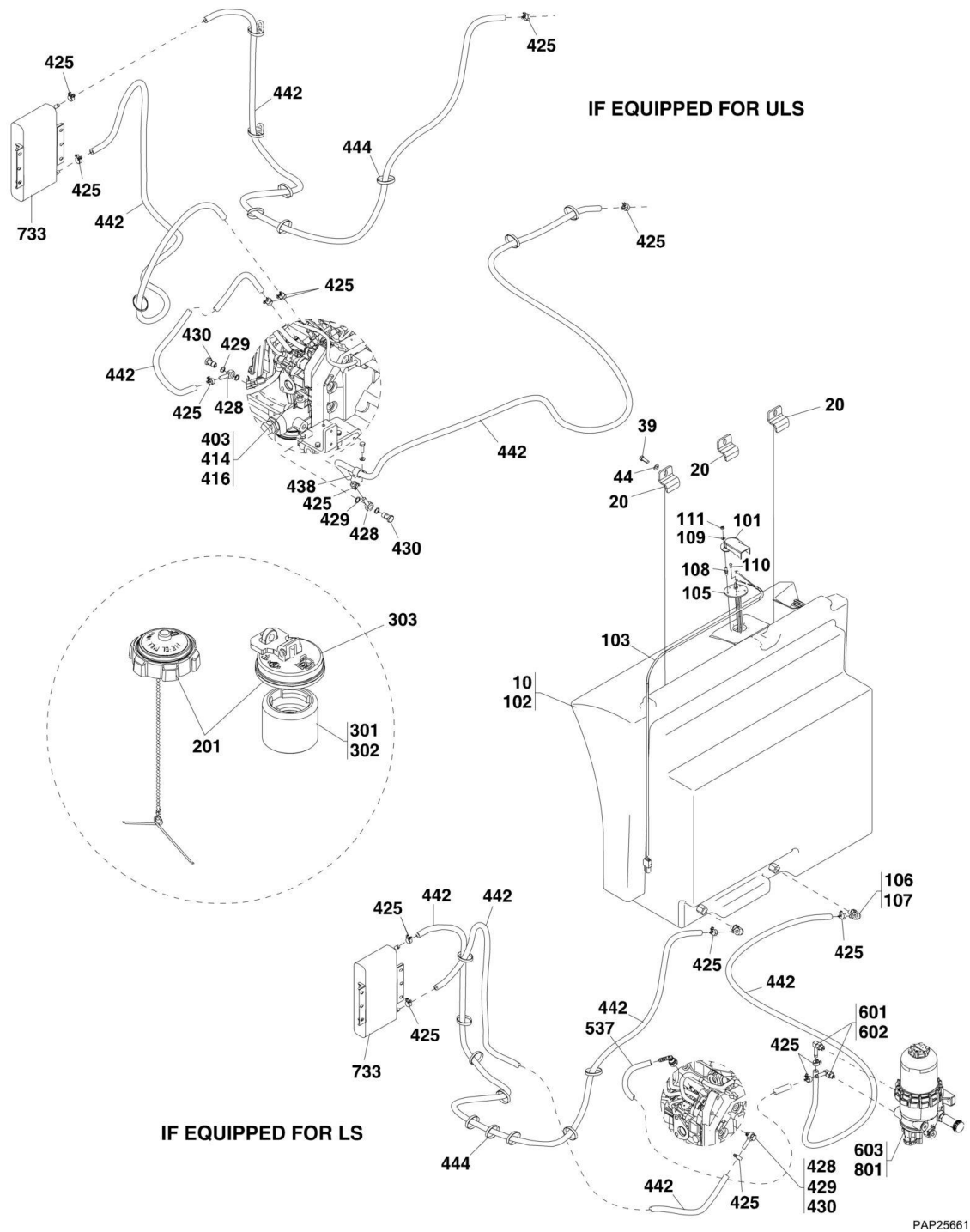
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-3. ENGINE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001136077	1	ENGINE, 130HP, (if equipped for LS), (includes all items)	B
	70024309	1	FAN BELT	
	70029919	1	FAN SPACER	
	70024310	1	ALTERNATOR	
	70024311	1	STARTER	
	70020358	1	OIL FILTER ELEMENT	
	70020350	1	DIPSTICK	
	70020351	1	DIPSTICK TUBE	
	70024312	1	OIL FILL CAP	
	70024313	1	THERMOSTAT	
	70020348	1	FUEL FILTER ELEMENT, (primary)	
	1001150519	1	FILTER KIT, 250 HOUR, (if equipped for LS), (includes all items)	A
	70020358	1	ENGINE OIL FILTER	
	70020348	1	SECONDARY FUEL FILTER	
	70024156	1	PRIMARY FUEL FILTER	
	70023878	1	PRIMARY AIR FILTER ELEMENT	
	70023879	1	SECONDARY AIR FILTER ELEMENT	
	1001150520	1	FILTER KIT, 1000 HOUR, (if equipped for LS), (includes all items)	A
	70020358	1	ENGINE OIL FILTER	
	70020348	1	SECONDARY FUEL FILTER	
	70024156	1	PRIMARY FUEL FILTER	
	70023878	1	PRIMARY AIR FILTER ELEMENT	
	70023879	1	SECONDARY AIR FILTER ELEMENT	
	70024152	1	HYDRAULIC RETURN FILTER	
	1340021	1	HYDRAULIC BREATHER	
	1319726	1	TRANSMISSION FILTER	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-4. FUEL TANK AND LINES



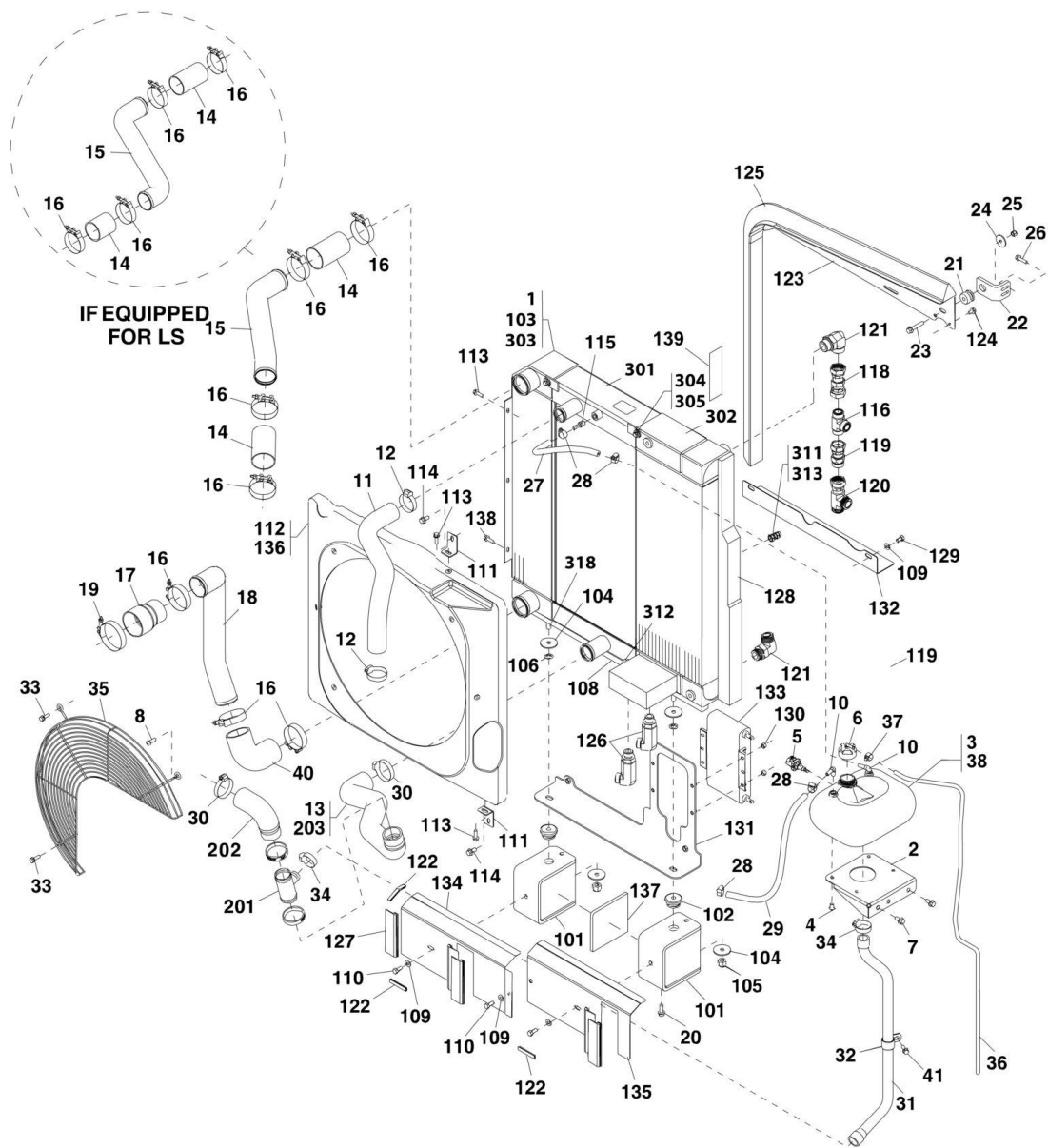
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-4. FUEL TANK AND LINES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
10	1001130780	1	FUEL TANK, (includes items 101 thru 111)	C
20	1001150364	3	FUEL TANK HOLD DOWN BRACKET	
39	0641608	3	HEX HD CAPSCREW, 3/8-16X1, GR5	
44	4711600	3	WASHER, 3/8	
101	1671313	1	FUEL SENDER COVER	
102	1001134413	1	FUEL TANK	
103	4923452	1	FUEL SENDER HARNESS	
105	1001148837	1	FUEL LEVEL SENDER	
106	1001130776	2	FITTING, HOSE BARB	
107	0100093	AR	LOCTITE 30512	
108	1001148847	3	ADAPTER	
109	4811600	3	WASHER, 5mm	A
110	0731003	2	HEX HD CAPSCREW, 10 X0.50	
111	1001149344	3	HEX NUT	
201	1001093641	1	FUEL CAP, NON LOCKING	
201	1001102657	1	FUEL CAP, LOCKING, (includes items 301 thru 303)	
301	0100093	AR	LOCTITE 30512	
302	1001001422	1	FILLER NECK TANK ADAPTER	
303	1001080707	1	LOCKING FUEL CAP	
403	0641709	2	HEX HD CAPSCREW, 7/16-14X1-1/8, (if equipped for ULS)	
414	4711700	2	WASHER, 7/16, (if equipped for ULS)	
416	4761700	2	LOCKWASHER, 7/16, (if equipped for ULS)	
425	1001136975	8	FUEL HOSE CLAMP, (if equipped for ULS)	
425	1001136975	7	FUEL HOSE CLAMP, (if equipped for LS)	
428	1001102931	2	BANJO BOLT, M14, (if equipped for ULS)	
428	1001105643	2	BANJO BOLT, (if equipped for LS)	
429	1001102933	4	COPPER RING SEAL, (if equipped for ULS)	
429	1001105639	2	COPPER CRUSH WASHER, (if equipped for LS)	
430	1001113511	2	BANJO MECHANICAL ADAPTER, (if equipped for ULS)	
430	1001105638	2	BANJO MECHANICAL ADAPTER, (if equipped for LS)	
438	91143122	1	SUPPORT CLAMP, (if equipped for ULS)	B
442	1001141400	345 in	FUEL HOSE, (if equipped for ULS)	
442	1001141400	292 in	FUEL HOSE, (if equipped for LS)	
444	4240018	9	Tie Strap	
537	1001138226	1	FUEL HOSE, (if equipped for LS)	
	1001136655	Ref	FUEL FILTER INSTALLATION, (if equipped for LS), (not available to order, see items 601 thru 603 for service)	
601	2220218	2	ADAPTER, CONNECTOR	
602	8430034	2	ADAPTER, 90	
603	1001133534	1	FUEL FILTER	
733		Ref	FUEL RADIATOR, (See RADIATOR INSTALLATION for Breakdown)	
801	0811612	2	SCREW, 3/8-16X1-1/2, (if equipped for LS)	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-5. RADIATOR INSTALLATION



SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-5. RADIATOR INSTALLATION

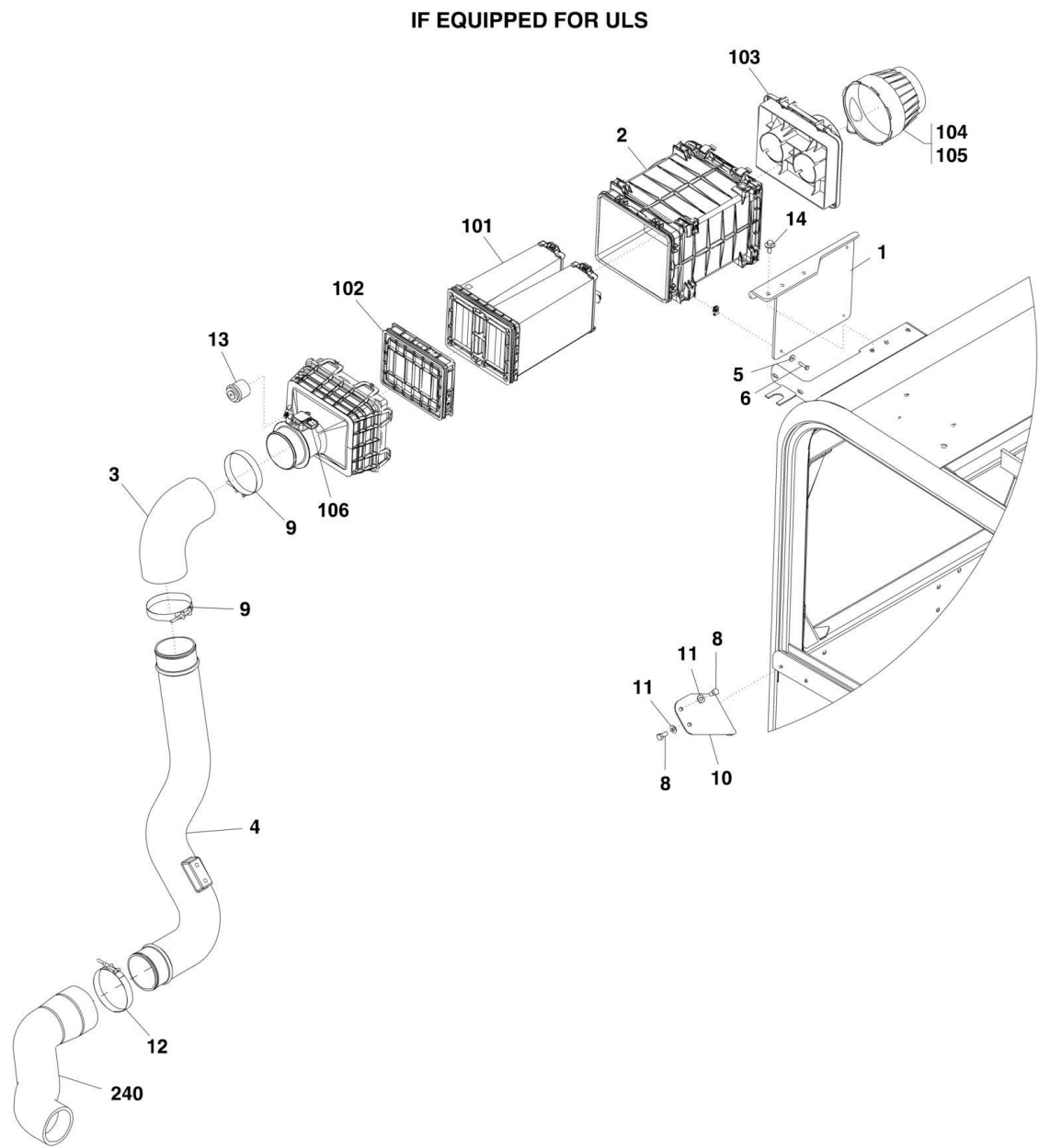
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001130057	Ref	RADIATOR ASSY, (if equipped for ULS), (not available to order, see items 1 thru 41 for service)	I
	1001137579	Ref	RADIATOR INSTALLATION, (if equipped for LS), (not available to order, see items 1 thru 4 & 6 thru 41 for service)	E
1	1001130286	Ref	COOLER INSTALLATION, (not available to order, see items 101 thru 139 for service)	J
2	1001128945	1	COOLANT TANK BRACKET	
3	1001128144	1	COOLANT TANK	
4	88261026	4	BUTTON HD CAPSCREW, 0.375-16X0.625	
5	1001121955	1	COOLANT LEVEL SENSOR, (if equipped for ULS)	
6	1001128341	1	PRESSURE PLUG CAP	
7	0811606	2	SCREW, 3/8-16X3/4	
8	3900316	1	BUTTON HD SCREW, 3/8-16X1.00, (if equipped for ULS)	
8	8310494	1	SCREW, 3/8-16X1.25, (if equipped for LS)	
10	2180467	2	BARB FITTING	
11	1001136887	1	RADIATOR INLET HOSE	
12	8405104	2	GEAR CLAMP	
13	1001130370	1	LOWER RADIATOR HOSE ASSY, (includes items 201 thru 203)	B
14	1001114495	2	CHARGE AIR COOLER HOSE, (if equipped for ULS)	
14	1001099251	1	CHARGE AIR COOLER HOSE, (if equipped for LS)	
14	1001114495	1	CHARGE AIR COOLER HOSE, (if equipped for LS)	
15	1001127153	1	PIPE, (if equipped for ULS)	
15	1001146568	1	PIPE, (if equipped for LS)	
16	8405212	7	T-BOLT CLAMP	
17	1001138348	1	REDUCER HOSE	
18	1001136940	1	OUTLET PIPE, (if equipped for ULS)	
18	1001146569	1	OUTLET PIPE, (if equipped for LS)	
19	8405306	1	T-BOLT CLAMP, (if equipped for ULS)	
19	8405305	1	T-BOLT CLAMP, (if equipped for LS)	
20	0811608	4	SCREW, 3/8-16X1	
21	8278020	1	RUBBER ISOLATOR MOUNT	
22	1001121050	1	COOLER ISOLATOR MOUNT PLATE	
23	0811616	1	SCREW, 3/8-16X2	
24	7057141	1	FLAT WASHER	
25	3300492	1	NYLON INSERT LOCKING NUT	
26	0811510	2	SCREW, 5/16-18X1-1/4	
27	1001121506	1	RADIATOR VENT HOSE	
28	8410013	4	GEAR CLAMP	
29	1001130312	1	ENGINE VENT HOSE, (if equipped for ULS)	
29	1001138490	1	ENGINE VENT HOSE, (if equipped for LS)	
30	8405201	2	GEAR CLAMP	
31	1001130378	1	SURGE TANK RETURN HOSE	
32	8406303	1	HOSE CLAMP, 1-3/16	
33	0791508	2	SCREW, 5/16-18x1	
34	8405102	2	GEAR CLAMP	
35	1001122338	1	FAN GUARD GRILL	
36	1001080998	1	EXPANSION TANK HOSE	
37	1001144802	1	HOSE CLAMP	
38	8530025	1	FITTING PLUG, (if equipped for LS)	
40	1001125246	1	CHARGE AIR COOLER COLD SIDE HOSE	

SECTION 4 - ENGINE AND ATTACHING PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
41	0791506	1	SCREW, 5/16-18 X 3/4 LG	E
101	1001134453	2	COOLER SUPPORT	
102	1001114803	2	ISOLATOR MOUNT	
103	1001129855	1	RADIATOR COOLING PACKAGE, (includes items 301 thru 318)	
104	4740274	4	SPECIAL WASHER	
105	88521208	2	LOCKNUT, 1/2-13	
106	3300246	2	STEEL PUSH NUT	
108	1001118092	1	FOAM GASKET SEAL	
109	4711600	5	WASHER, 3/8	
110	0641607	3	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
111	1001121404	2	SHROUD MOUNTING BRACKET	
112	1001122566	1	FAN SHROUD	
113	0791508	2	SCREW, 5/16-18x1	
114	0811606	2	SCREW, 3/8-16X3/4	
115	2220767	1	STRAIGHT FITTING	
116	2170516	1	ADAPTER, BRANCH TEE, (includes o-ring)	
118	2172416	1	ADAPTER, CONNECTOR, (includes o-ring)	
119	1001159129	1	CHECK VALVE	
120	2170716	1	ADAPTER, RUN TEE, (includes o-ring)	
121	2131616	2	ADAPTER, 90, (includes o-ring)	
122	90206194	AR	TRIM	
123	1001130046	1	AIR DAM PLATE	
124	0791504	5	WHIZ-LOCK SCREW, 5/16-18X1/2	
125	1001130079	1	FOAM GASKET SEAL	
126	2170212	2	ADAPTER, 90, (long), (includes o-ring)	
127	1001133877	5	TRIM-LOK SEAL	
128	1001121962	1	FOAM GASKET SEAL	
129	0641605	2	HEX HD CAPSCREW, 3/8-16X5/8, GR5	
130	77143006	4	HEX NUT, 0.312-18	
131	1001134456	1	FUEL COOLER MOUNT	
132	1001134458	1	DRIP SHIELD PLATE	
133	1001134516	1	FUEL RADIATOR	
134	1001138258	1	AIR DAM PLATE, RIGHT	
135	1001138313	1	AIR DAM WELD PLATE	
136	1001120639	AR	BULB SEAL	
137	1001147450	1	FOAM GASKET SEAL	
138	1001149227	3	SCREW, 5/16-18X1	
139	1001149756	1	FOAM GASKET SEAL	
201	1001121514	1	BRANCH PIPE	
202	1001121873	1	WATER INLET HOSE	
203	1001121874	1	RADIATOR OUTLET HOSE	
301	70024110	1	RADIATOR	
302	70024111	1	COOLER	
303	70024109	1	CHARGE AIR COOLER	
304	70024113	6	HEX HD CAPSCREW, 5/16-18X1/2	
305	70024115	6	WASHER	
311	70024112	1	DRAINCOCK, 1/4	
312	70024116	1	THERMAL BYPASS VALVE	
313	70023337	1	OVERFLOW HOSE	
318	70024114	2	STUD, 1/2-13X3-1/2	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-6. AIR CLEANER INSTALLATION



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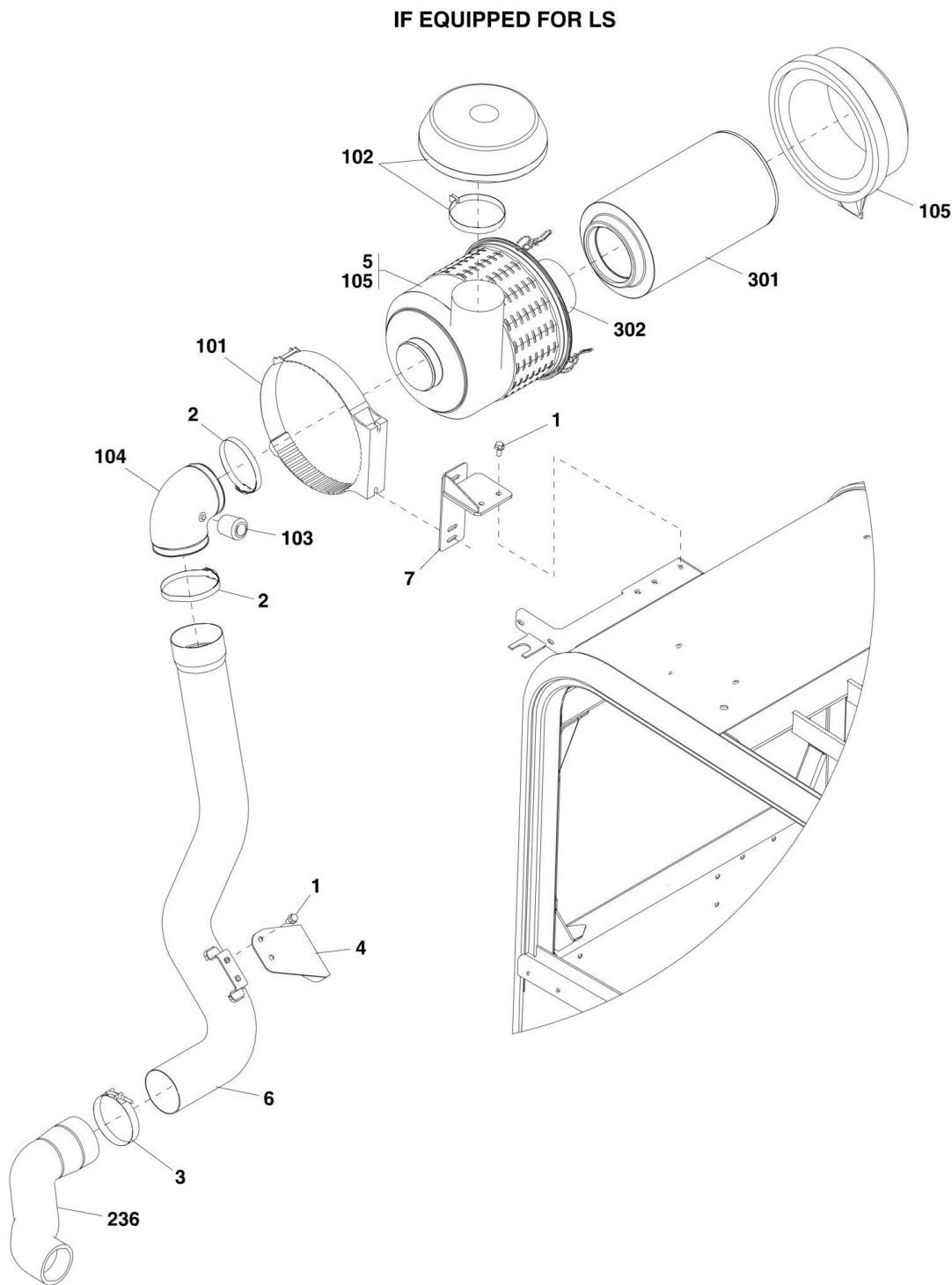
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-6. AIR CLEANER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001128739	Ref	AIR CLEANER INSTALLATION, (if equipped for ULS), (not available to order, see items 1 thru 14 for service)	B
1	1001128746	1	AIR CLEANER SUPPORT BRACKET	C
2	1001128745	1	AIR CLEANER FILTER, (includes items 101 thru 105)	
3	09523572	1	ELBOW, 90	
4	91563079	1	AIR INTAKE TUBE	
5	4811702	4	WASHER, 6mm, (hand torque to 1-2 lb-ft/1.35-2.7 Nm)	
6	0760612	4	HEX HD CAPSCREW, M6X25, GR8.8	
8	0641606	4	HEX HD CAPSCREW, 3/8-16X3/4, GR5, (torque to 30 lb-ft/41 Nm)	
9	77383790	2	HEAVY DUTY BAND CLAMP	
10	1001121869	1	AIR INTAKE BRACKET	
11	4711600	4	WASHER, 3/8	
12	80933367	1	HEAVY DUTY BAND CLAMP	
13	91563129	1	RESTRICTION INDICATOR	
14	0811606	3	SCREW, 3/8-16X3/4, (torque to 30 lb-ft/41 Nm)	
101	70024175	1	PRIMARY FILTER	
102	70024176	1	SECONDARY FILTER	
103	70024318	1	COVER	
104	70024270	1	VACUATOR VALVE	
105	70024271	1	PRE-CLEANER	
106	70024841	1	MASS AIR FLOW SENSOR	
240	1001130675	1	AIR INTAKE HOSE	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-7. AIR CLEANER INSTALLATION



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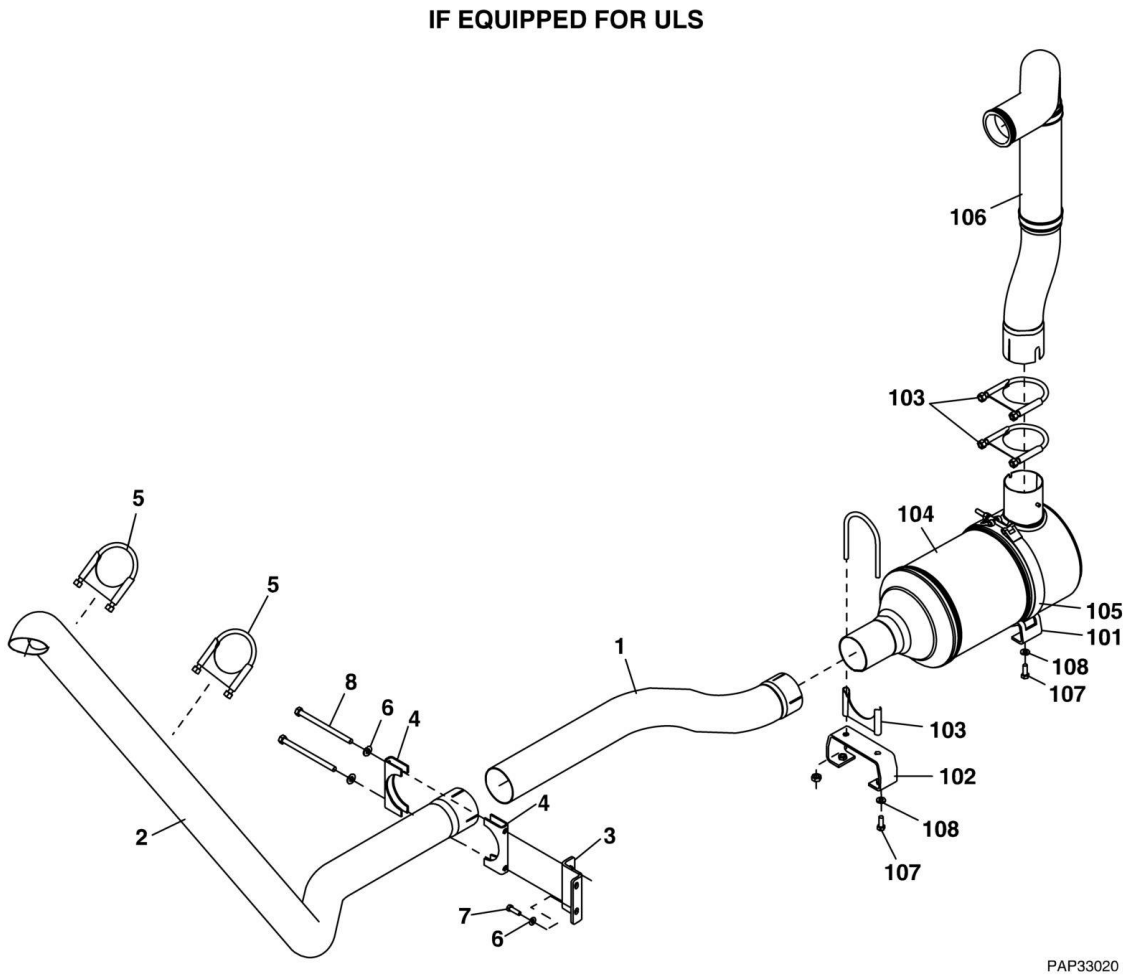
SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-7. AIR CLEANER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001137031	Ref	AIR CLEANER INSTALLATION, (if equipped for LS), (not available to order, see items 1 thru 7 for service)	B
1	0811606	4	SCREW, 3/8-16X3/4, (torque to 30 lb-ft/41 Nm)	
2	1320037	2	HOSE CLAMP	
3	80933367	1	HEAVY DUTY BAND CLAMP	
4	91563163	1	AIR INTAKE BRACKET	
5	1001136984	1	AIR CLEANER FILTER	
6	1001138049	1	AIR INTAKE PIPE	
7	1001138561	1	AIR CLEANER SUPPORT BRACKET	A
101	1001130443	1	AIR CLEANER CLAMP	
102	1001137042	1	AIR CLEANER RAIN CAP	
103	1001137044	1	RESTRICTION INDICATOR	
104	1001137045	1	AIR INTAKE ELBOW	
105	1001137930	1	AIR CLEANER FILTER, (includes items 301 & 302)	
236	1001138033	1	AIR INTAKE HOSE	
301	70023878	1	MAIN FILTER ELEMENT	
302	70023879	1	SECONDARY FILTER ELEMENT	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-8. EXHAUST INSTALLATION



SECTION 4 - ENGINE AND ATTACHING PARTS

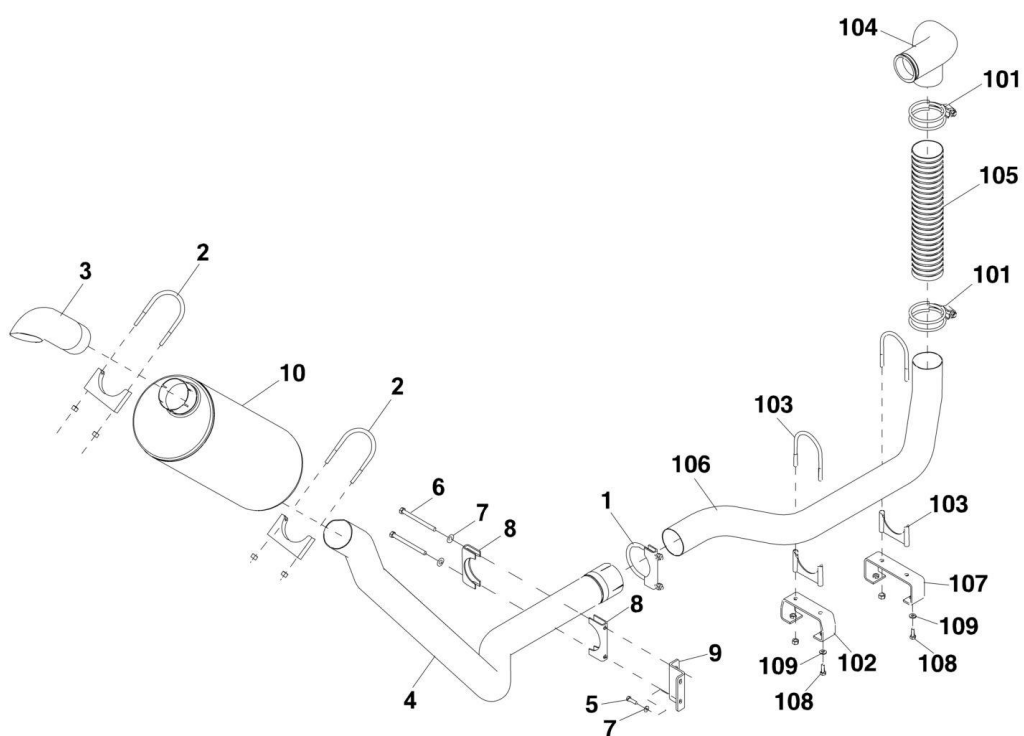
FIGURE 4-8. EXHAUST INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129741	Ref	EXHAUST INSTALLATION, (if equipped for ULS), (not available to order, see items 1 thru 8 for service)	B
1	1001130943	1	ENGINE POD EXHAUST PIPE	
2	1001130906	1	EXHAUST TAIL PIPE	
3	1001129785	1	EXHAUST MOUNT BRACKET	
4	1001129787	2	EXHAUST CLAMP SADDLE MOUNT	
5	24921332	2	EXHAUST CLAMP, 3 IN	
6	4711600	4	WASHER, 3/8	
7	0641610	2	HEX HD CAPSCREW, 3/8-16X1-1/4, GR5	
8	0641638	2	HEX HD CAPSCREW, 3/8-16X5-1/2, GR5	C
	1001130139	Ref	ENGINE POD EXHAUST INSTALLATION, (not available to order, see items 101 thru 108 for service)	
101	1001128363	1	MOUNT BRACKET	
102	1001128364	1	PIPE MOUNT BRACKET	
103	24921332	3	EXHAUST CLAMP, 3 IN	
104	1001128714	1	MUFFLER	
105	1001128901	1	DOC CLAMP STRAP	
106	1001128602	1	EXHAUST FLEX PIPE	
107	0641507	4	HEX HD CAPSCREW, 5/16-18X7/8, GR5	
108	4891500	4	WASHER, 5/16	

SECTION 4 - ENGINE AND ATTACHING PARTS

FIGURE 4-9. EXHAUST INSTALLATION

IF EQUIPPED FOR LS



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SECTION 4 - ENGINE AND ATTACHING PARTS

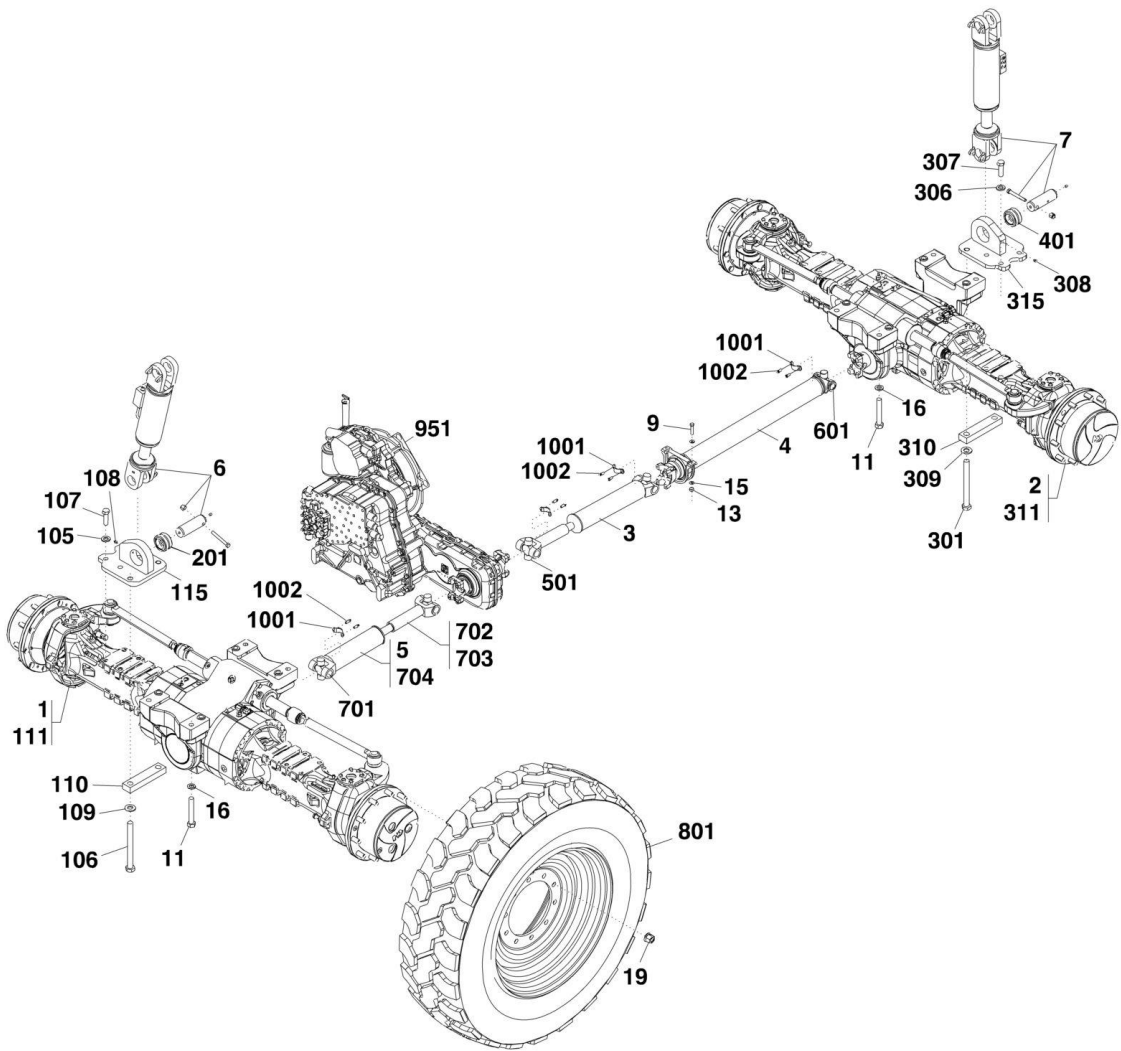
FIGURE 4-9. EXHAUST INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001145050	Ref	EXHAUST INSTALLATION, (if equipped for LS), (includes all items)	C
1	8275247	1	MUFFLER CLAMP, 3 IN	
2	24921332	2	EXHAUST CLAMP, 3 IN	
3	91403489	1	TAIL PIPE	
4	1001145049	1	EXHAUST PIPE	
5	0641610	2	HEX HD CAPSCREW, 3/8-16X1.25, GR5	
6	0641638	2	HEX HD CAPSCREW, 3/8-16X5-1/2, GR5	
7	4711600	4	WASHER, 3/8	
8	1001129787	2	EXHAUST CLAMP SADDLE MOUNT	
9	1001129785	1	EXHAUST MOUNT BRACKET	
10	91163035	1	MUFFLER, 3 IN	
	1001138136	Ref	ENGINE POD EXHAUST INSTALLATION, (not available to order, see items 101 thru 109 for service)	B
101	91403601	2	PIPE CLAMP	
102	1001128364	1	PIPE MOUNT BRACKET	
103	24921332	2	EXHAUST CLAMP, 3 IN	
104	1001138131	1	FLANGED EXHAUST OUTLET PIPE	
105	1001138132	1	FLEX TUBE	
106	1001145048	1	EXHAUST PIPE	
107	1001138137	1	EXHAUST PIPE BRACKET ASSY	
108	0641507	4	HEX HD CAPSCREW, 5/16-18X7/8, GR5	
109	4891500	4	WASHER, 5/16	

SECTION 5 - DRIVE TRAIN

SECTION 5 - DRIVE TRAIN

FIGURE 5-1. DRIVETRAIN COMPONENTS (Prior to SN 0160054609)



PAP25840

SECTION 5 - DRIVE TRAIN

FIGURE 5-1. DRIVETRAIN COMPONENTS (Prior to SN 0160054609)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129459	Ref	DRIVETRAIN INSTALLATION, (not available to order, see items 1 thru 26 for service)	D
1	1001097803	Ref	FRONT AXLE ASSY, (not available to order, see items 105 thru 111 & item 115 for service)	H
2	1001097804	Ref	REAR AXLE ASSY, (not available to order, see items 301, 306 thru 311 & item 315 for service)	F
3	7139914	1	FRONT DRIVE SHAFT, (includes item 501)	C
4	91563209	1	REAR DRIVE SHAFT, (includes item 601)	B
5	7150580	1	REAR DRIVE SHAFT ASSY, (includes items 701 thru 704)	C
6		Ref	FRAME LEVEL CYLINDER AND HARDWARE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
7		Ref	STABILIZER CYLINDER AND HARDWARE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
9	0641716	2	HEX HD CAPSCREW, 7/16-14X2, GR8, (torque to 50 lb-ft/68 Nm)	
11	0682444	16	HEX HD CAPSCREW, 7/8-9X5-1/2, GR8, (torque to 530-565 lb-ft/718.5-766 Nm)	
13	3311705	2	HEX LOCKNUT, 7/16-14	
15	4711700	4	WASHER, 7/16	
16	4892400	16	WASHER, 7/8	
18		Ref	GREASE FITTING, 1/8, (not shown), (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	
19	91403193	40	LUG NUT, M22X1.5, (torque to 474.5-542.3 Nm/350-400 lb-ft)	
24		Ref	SPLIT CONDUIT, (not shown), (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	
25		Ref	TRIM-LOK, (not shown), (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	
26	8880218-OM	5	STRAP KIT, (includes items 1001 & 1002), (not shown)	
105	4892400	1	WASHER, 7/8	
106	77101143	2	HEX HD CAPSCREW, (torque to 290-340 lb-ft/393.1-460.9 Nm)	
107	80333162	4	HEX HD CAPSCREW, M20X65mm, (torque to 545-595 lb-ft/738.9-806.7 Nm)	
108	88671001	1	GREASE FITTING, 1/8	
109	90027475	2	WASHER	
110	91511105	1	RETAINER PLATE	
111		Ref	FRONT AXLE, (See FRONT AXLE for Breakdown)	
115	1001097992	1	BRACKET ASSY, (includes item 201) (SN 0160054609 through 0160063539)	B
115	1001099602	1	BRACKET ASSY, (includes item 201) (SN 0160063540 to Present)	C
201	8065640	1	SELF ALIGN BEARING	
301	77101143	2	HEX HD CAPSCREW, (torque to 290-340 lb-ft/393.1-460.9 Nm)	
306	77383118	4	HARDENED WASHER, 7/8	
307	80333162	4	HEX HD CAPSCREW, M20X65mm, (torque to 545-595 lb-ft/738.9-806.7 Nm)	
308	88671001	1	GREASE FITTING, 1/8	
309	90027475	2	WASHER	
310	91511105	1	RETAINER PLATE	
311		Ref	REAR AXLE, (See REAR AXLE for Breakdown)	
315	1001097992	1	BRACKET ASSY, (includes item 401)	A
401	8065640	1	SELF ALIGN BEARING	
501	91474035	2	UNIVERSAL JOINT KIT	
601	7026911	1	UNIVERSAL JOINT KIT	
701	8036433	2	CROSS AND BEARING KIT	

SECTION 5 - DRIVE TRAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
702	8035779	1	DUST CAP KIT	
703	N.S.S.	1	SLIP JOINT	
704	N.S.S.	1	YOKE SHAFT	
801		Ref	TIRE AND WHEEL ASSY, (See WHEEL ASSEMBLY for Breakdown)	
901	14403364	AR	LOCTITE 242	
951		Ref	TRANSMISSION, (See TRANSMISSION for Breakdown)	
1001	N.S.S.	10	STRAP	
1002	N.S.S.	20	STRAP BOLT, 0.37-24X0.75, GR9	

136

G10-55A,G12-55A



SECTION 5 - DRIVE TRAIN

FIGURE 5-2. DRIVETRAIN COMPONENTS (SN 0160054609 to Present)

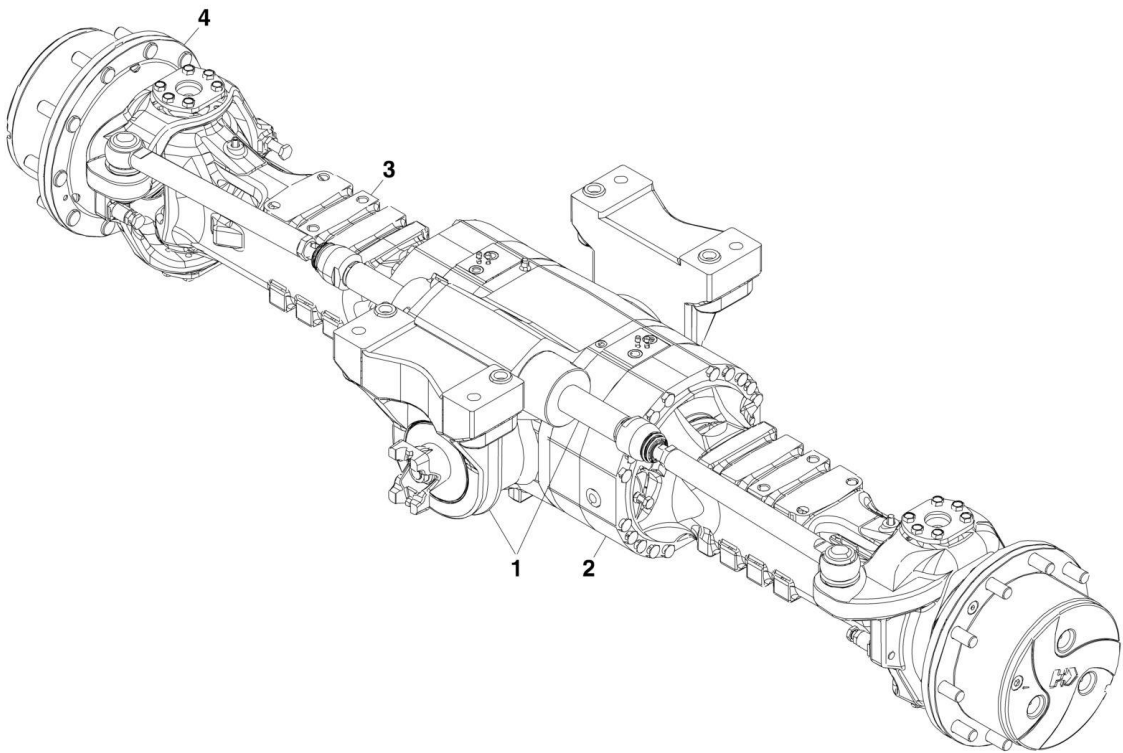
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001148529	Ref	DRIVETRAIN INSTALLATION, (not available to order, see items 1 thru 24 for service)	C
1	0641716	2	HEX HD CAPSCREW, 7/16-14X2, GR8	
3	0682444	16	HEX HD CAPSCREW, 7/8-9X5-1/2, GR8, (torque to 530-565 lb-ft/718.5-766 Nm)	
4		Ref	FRAME LEVEL CYLINDER AND HARDWARE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
5	3311705	2	HEX LOCKNUT, 7/16-14	
6		Ref	STABILIZER CYLINDER AND HARDWARE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
7	4711700	4	WASHER, 7/16	
8	4892400	16	WASHER, 7/8	
9	7139914	1	FRONT DRIVE SHAFT, (includes item 501)	
10	7150580	1	REAR DRIVE SHAFT ASSY, (includes items 701 thru 704)	
11	8065640	2	SELF ALIGN BEARING	
15	88671001	2	LUBE FITTING, STRAIGHT, 1/8	
16	91403193	40	LUG NUT, M22X1.5, (torque to 474.5-542.3 Nm/350-400 lb-ft)	
17	8880218-OM	5	STRAP KIT, (includes items 1001 & 1002), (not shown)	
18	1001097803	1	FRONT AXLE ASSY, (not available to order, see items 105 thru 115 for service)	E
19	1001143724	1	REAR DRIVE SHAFT, (includes item 601)	
20	1001146680	1	REAR AXLE ASSY, (not available to order, see items 301, 308 thru 315 for service)	C
23		Ref	SPLIT CONDUIT, (not shown), (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	
24		Ref	TRIM-LOK, (not shown), (See FRAME AND ATTACHING PARTS SECTION for Breakdown)	
105	77383118	4	HARDENED WASHER, 7/8	
106	77101143	4	HEX HD CAPSCREW, (torque to 290-340 lb-ft/393.1-460.9 Nm)	
107	80333162	4	HEX HD CAPSCREW, M20X65mm, (torque to 545-595 lb-ft/738.9-806.7 Nm)	
108	88671001	1	GREASE FITTING, 1/8	
109	90027475	2	WASHER	
110	91511105	1	RETAINER PLATE	
111		Ref	FRONT AXLE, (See FRONT AXLE for Breakdown)	
115	1001097992	1	BRACKET ASSY, (includes item 201)	
201	8065640		SELF ALIGN BEARING	
301	77101143	4	HEX HD CAPSCREW, (torque to 545-595 lb-ft/393.1-460.9 Nm)	
306	77383118	4	HARDENED WASHER, 7/8	
307	80333162	4	HEX HD CAPSCREW, M20X65mm, (torque to 545-595 lb-ft/738.9-806.7 Nm)	
308	88671001	1	GREASE FITTING, 1/8	
309	90027475	7	WASHER	
310	91511105	2	RETAINER PLATE	
311		Ref	REAR AXLE, (See REAR AXLE for Breakdown)	
315	1001142892	1	BRACKET ASSY, (includes item 401)	
401	8065640	1	SELF ALIGN BEARING	
501	91474035	2	UNIVERSAL JOINT KIT	
601		Ref	UNIVERSAL JOINT KIT	
701	8036433	2	CROSS AND BEARING KIT	
702	8035779	1	DUST CAP KIT	
703	N.S.S.	1	SLIP JOINT	

SECTION 5 - DRIVE TRAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
704	N.S.S.	1	YOKE SHAFT	
801		Ref	TIRE AND WHEEL ASSY, (See WHEEL ASSEMBLY for Breakdown)	
901	14403364	AR	LOCTITE 242	
951		Ref	TRANSMISSION, (See TRANSMISSION for Breakdown)	
1001	N.S.S.	10	STRAP	
1002	N.S.S.	20	STRAP BOLT, 0.375-24X0.75, GR9	

SECTION 5 - DRIVE TRAIN

FIGURE 5-3. FRONT AXLE



PAL6610

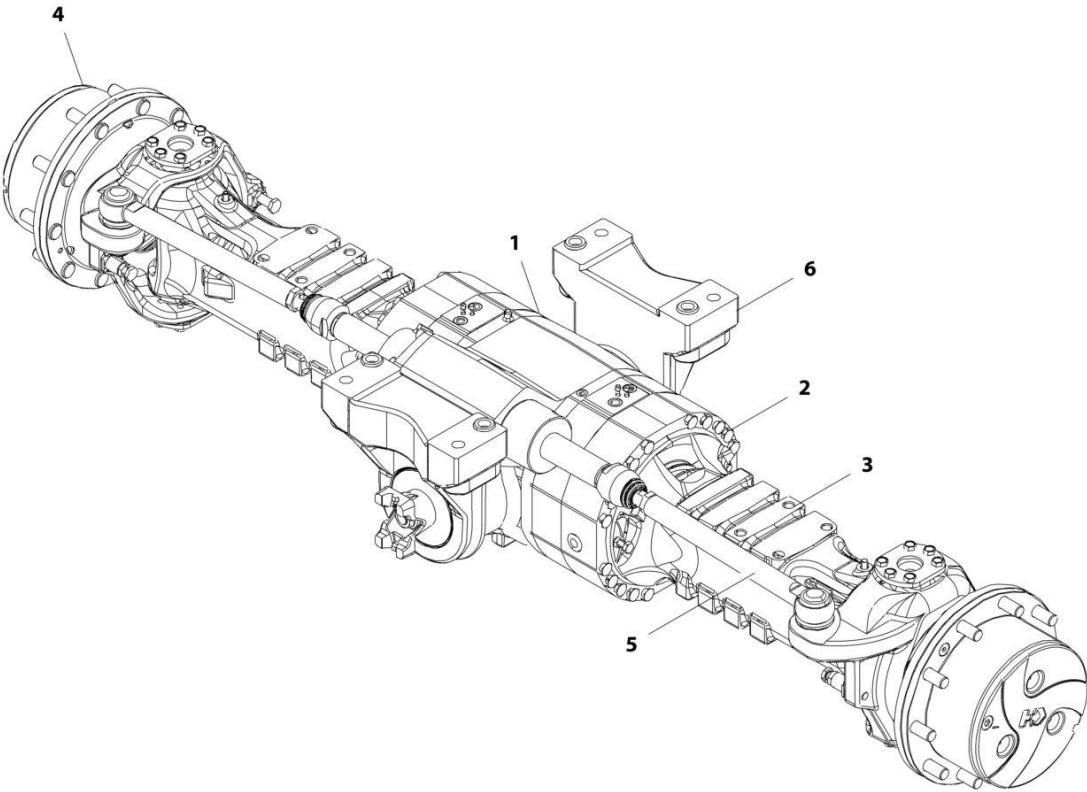
SECTION 5 - DRIVE TRAIN

FIGURE 5-3. FRONT AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001136369	1	FRONT AXLE , (includes all items) (Prior to SN 0160046229, SN 0160046235 through 0160063539, Excluding 0160045209, 0160045296, 0160045449 and 0160045636)	D
	91563282	1	FRONT AXLE , (includes all items) (SN 0160046229 through 0160046235, Including 0160045209, 0160045296, 0160045449 and 0160045636)	E
1		Ref	CENTRAL HOUSING AND STEERING, (See FRONT AXLE - CENTRAL HOUSING AND STEERING for Breakdown)	
2		Ref	DIFFERENTIAL, (See FRONT AXLE - DIFFERENTIAL for Breakdown)	
3		Ref	HUB REDUCTION, (See FRONT AXLE - HUB REDUCTION for Breakdown)	
4		Ref	BRAKES, (See FRONT AXLE – BRAKES for Breakdown)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-4. FRONT AXLE (SN 0160063540 to Present)



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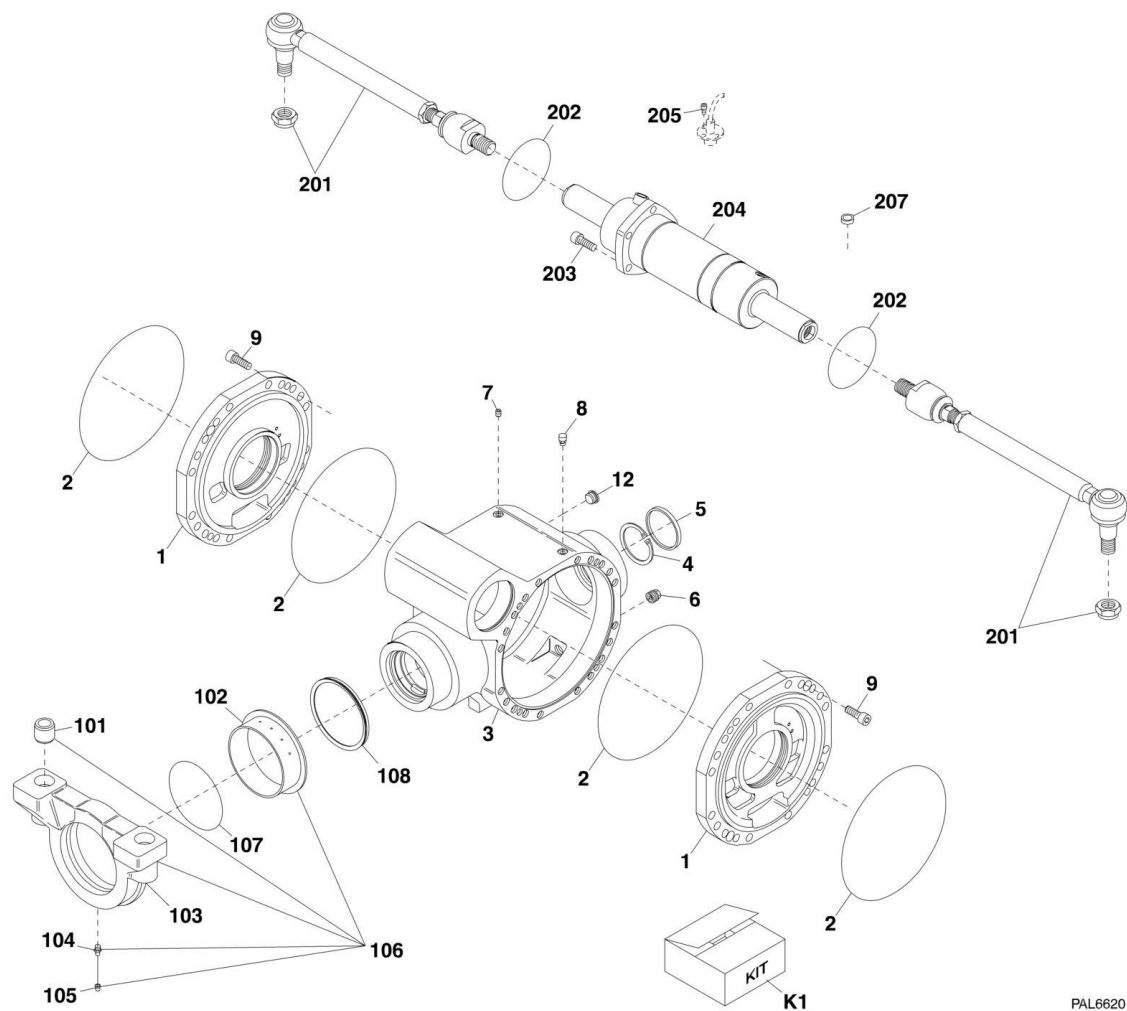
SECTION 5 - DRIVE TRAIN

FIGURE 5-4. FRONT AXLE (SN 0160063540 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001179605	Ref	FRONT AXLE	D
		Ref	FRONT AXLE, CENTRAL HOUSING, (See FRONT AXLE, CENTRAL HOUSING for Breakdown)	
2		Ref	FRONT AXLE, DIFFERENTIAL, (See FRONT AXLE, DIFFERENTIAL for Breakdown)	
3		Ref	FRONT AXLE, HUB REDUCTION, (See FRONT AXLE, HUB REDUCTION for Breakdown)	
4		Ref	FRONT AXLE, BRAKES, (See FRONT AXLE, BRAKES for Breakdown)	
5		Ref	FRONT AXLE, STEERING, (See FRONT AXLE, STEERING for Breakdown)	
6		Ref	FRONT AXLE, TRUNION, (See FRONT AXLE, TRUNION for Breakdown)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-5. FRONT AXLE - CENTRAL HOUSING AND STEERING (Prior to SN 0160046229, SN 0160046235 through 0160063539, Excluding 0160045209, 0160045296, 0160045449 and 0160045636)



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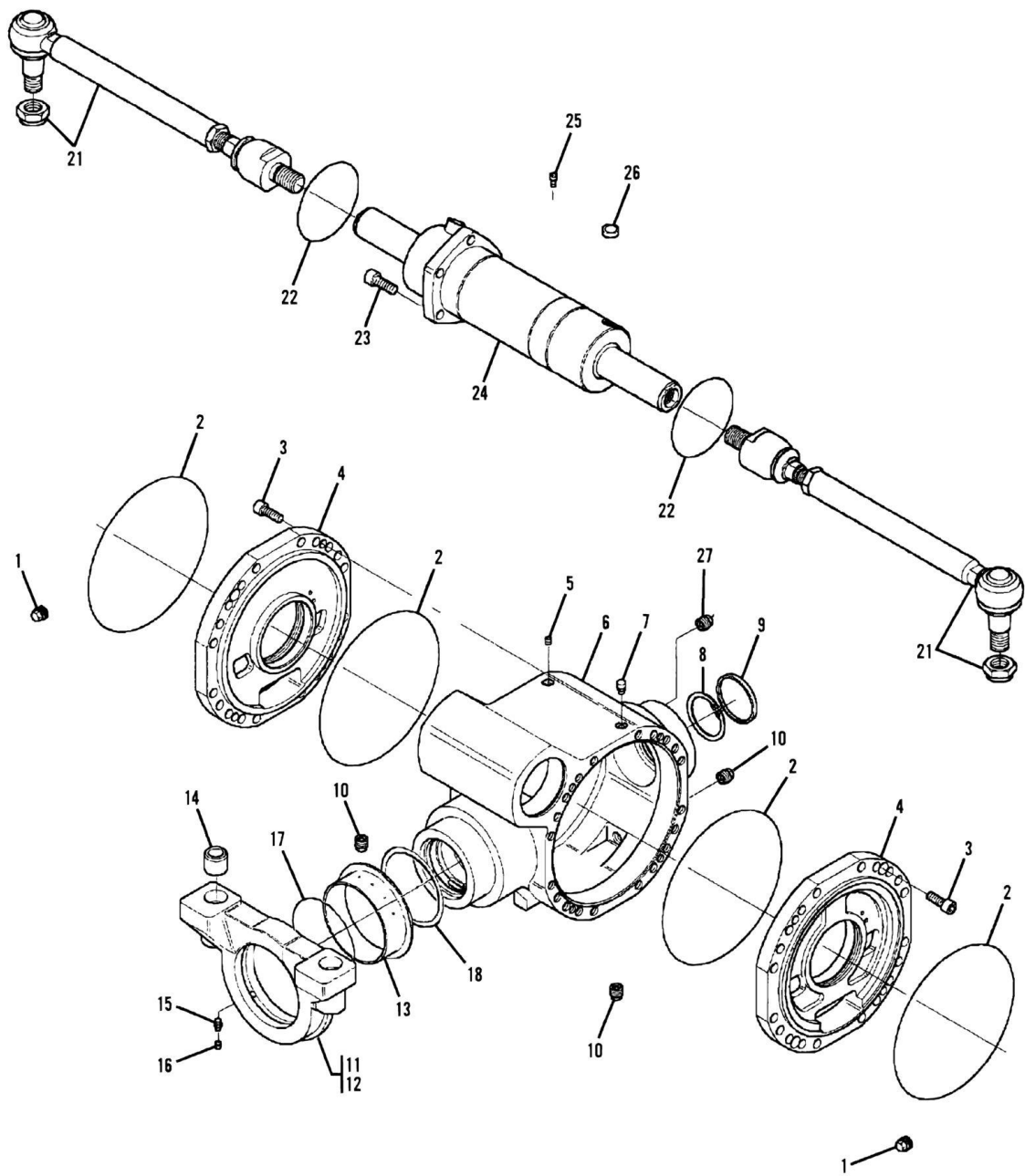
SECTION 5 - DRIVE TRAIN

FIGURE 5-5. FRONT AXLE - CENTRAL HOUSING AND STEERING (Prior to SN 0160046229, SN 0160046235 through 0160063539, Excluding 0160045209, 0160045296, 0160045449 and 0160045636)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70024203	2	INTERMEDIATE COVER (Prior to Axle SN SITA703955)	A
1	70024670	2	COVER, INTERMEDIATE (Axle SN SITA703955 to Present)	
2	7026487	4	O-RING	
3	70023258	1	HOUSING	
4	80204005	1	CIRCLIP	
5	91514098	1	PLUG	
6	70021177	1	PLUG	
7	80204012	1	PLUG	
8	91474512	1	VENT	
9	80204144	4	BOLT	
12	91514087	1	PLUG	
101	7029290	4	BUSHING	
102	91514090	2	BUSHING	
103	7029291	2	SUPPORT	
104	91514099	2	GREASE FITTING	
105	80204117	2	PLUG	
106	7029303	2	SUPPORT ASSY, (includes items 101 thru 105)	
107	7029304	2	O-RING	
108	7029305	2	O-RING	
201	70021614	2	TIE-ROD	
201	70022773	2	NUT	
202	80204143	2	O-RING	
203	80204144	5	BOLT	
204	7026490	1	STEERING CYLINDER	
205	7029306	3	BOLT	
207	7029307	1	PLUG	
K1	7029127	1	STEERING CYLINDER SEAL KIT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-6. FRONT AXLE - CENTRAL HOUSING AND STEERING (SN 0160046229 through 0160046235, Including 0160045209, 0160045296, 0160045449 and 0160045636)



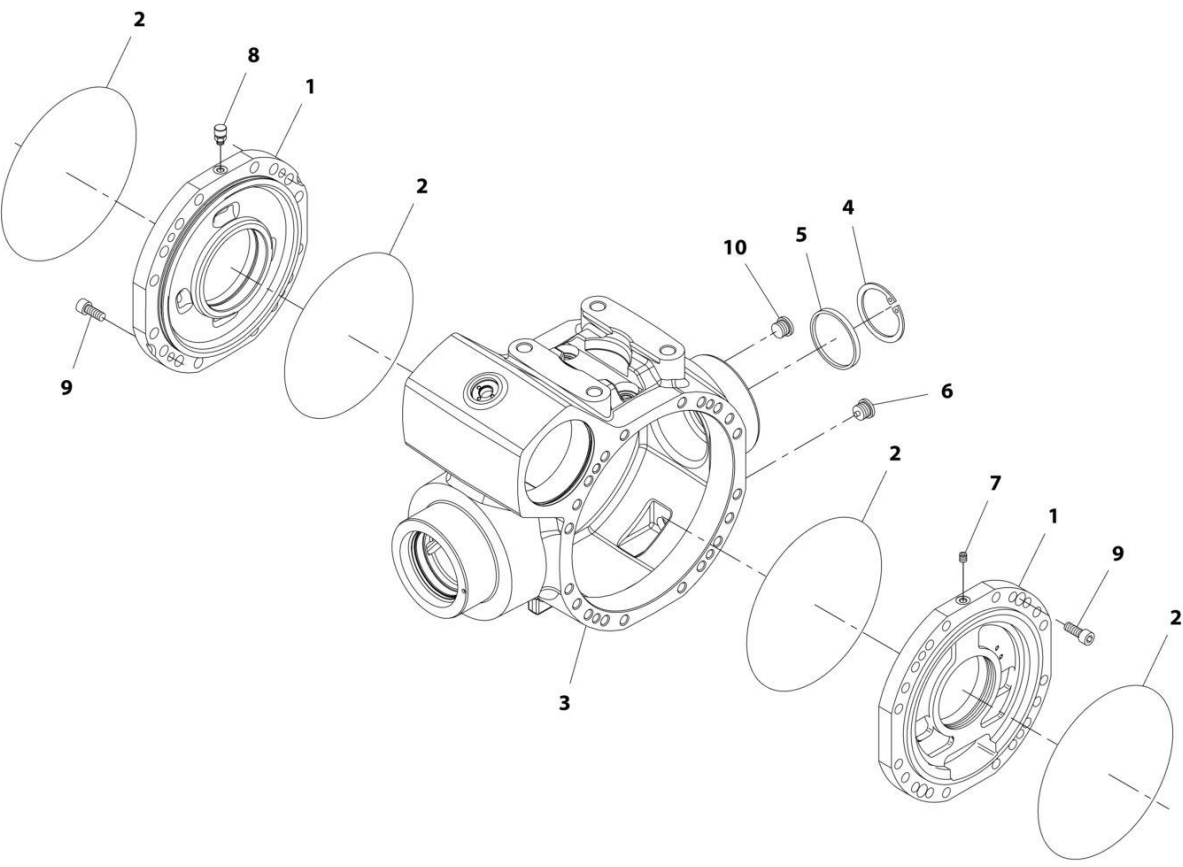
SECTION 5 - DRIVE TRAIN

FIGURE 5-6. FRONT AXLE - CENTRAL HOUSING AND STEERING (SN 0160046229 through 0160046235, Including 0160045209, 0160045296, 0160045449 and 0160045636)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80204016	2	PLUG	F
2	7026487	4	O-RING	
3	80204144	4	CYLINDER BOLT	
4	7026486	2	INTERMEDIATE COVER	
5	80204012	3	PLUG	
6	7029302	1	HOUSING	
7	91474512	1	VENT	
8	80204005	1	CIRCLIP	
9	91514098	1	PLUG	
10	80204007	3	MAGNETIC PLUG	
11	7029303	2	SUPPORT ASSY, (includes items 12 thru 16)	
12	7029291	2	SUPPORT	
13	91514090	2	THRUST BUSHING	
14	7029290	4	REDUCTION BUSHING	
15	91514099	2	GREASE FITTING	
16	80204117	2	PLUG	
17	7029304	2	O-RING	
18	7029305	2	DUST EXCLUDER	
21	7029293	2	ARTICULATED TIE ROD	
21	70022773	2	TIE ROD NUT, M27X1.5	
22	80204143	2	O-RING	
23	80204144	5	CYLINDER BOLT	
24	7026490	1	CYLINDER	
24	7029127	1	SEAL KIT	
25	7029306	3	BOLT	
26	7029307	1	PLUG	
27	91514188	1	PLUG	

SECTION 5 - DRIVE TRAIN

FIGURE 5-7. FRONT AXLE - CENTRAL HOUSING (SN 0160063540 to Present)



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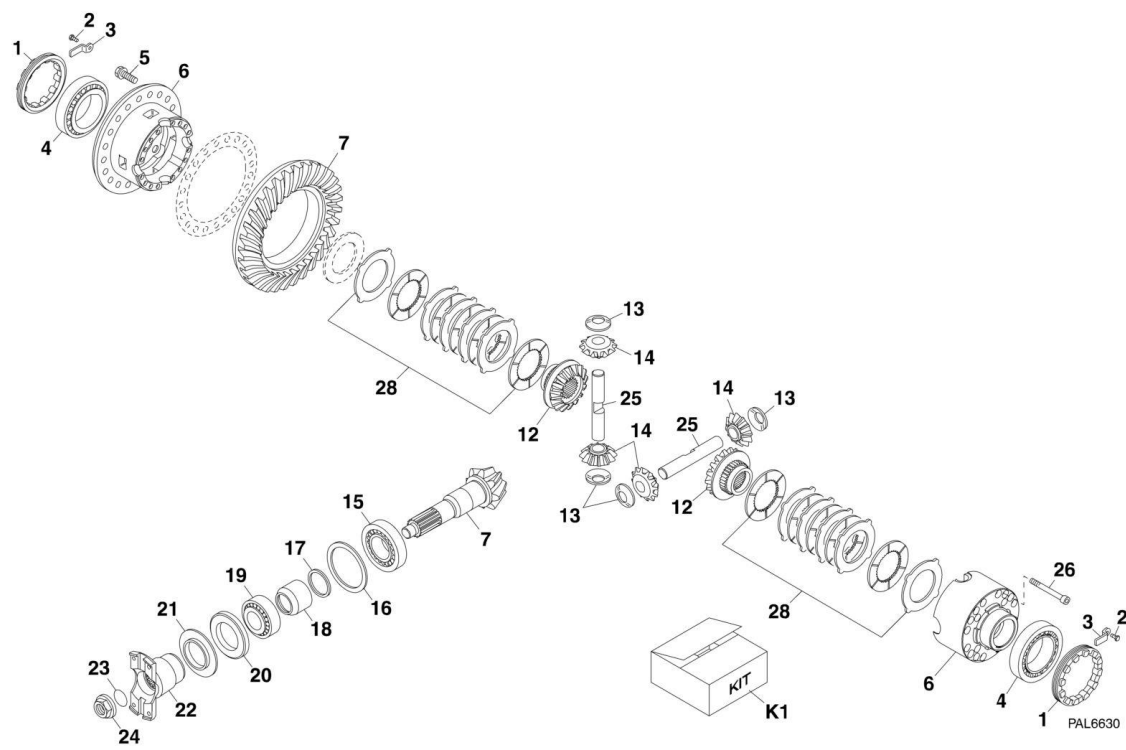
SECTION 5 - DRIVE TRAIN

FIGURE 5-7. FRONT AXLE - CENTRAL HOUSING (SN 0160063540 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70024670	2	COVER, INTERMEDIATE	
2	7026487	4	O-RING	
3	70023258	1	HOUSING	
4	80204005	1	CIRCLIP	
5	91514098	1	PLUG	
6	70021177	1	PLUG	
7	80204012	1	PLUG	
8	80204014	1	VENT	
9	80204144	4	BOLT, CYLINDER	
10	91514087	1	PLUG	

SECTION 5 - DRIVE TRAIN

FIGURE 5-8. FRONT AXLE - DIFFERENTIAL



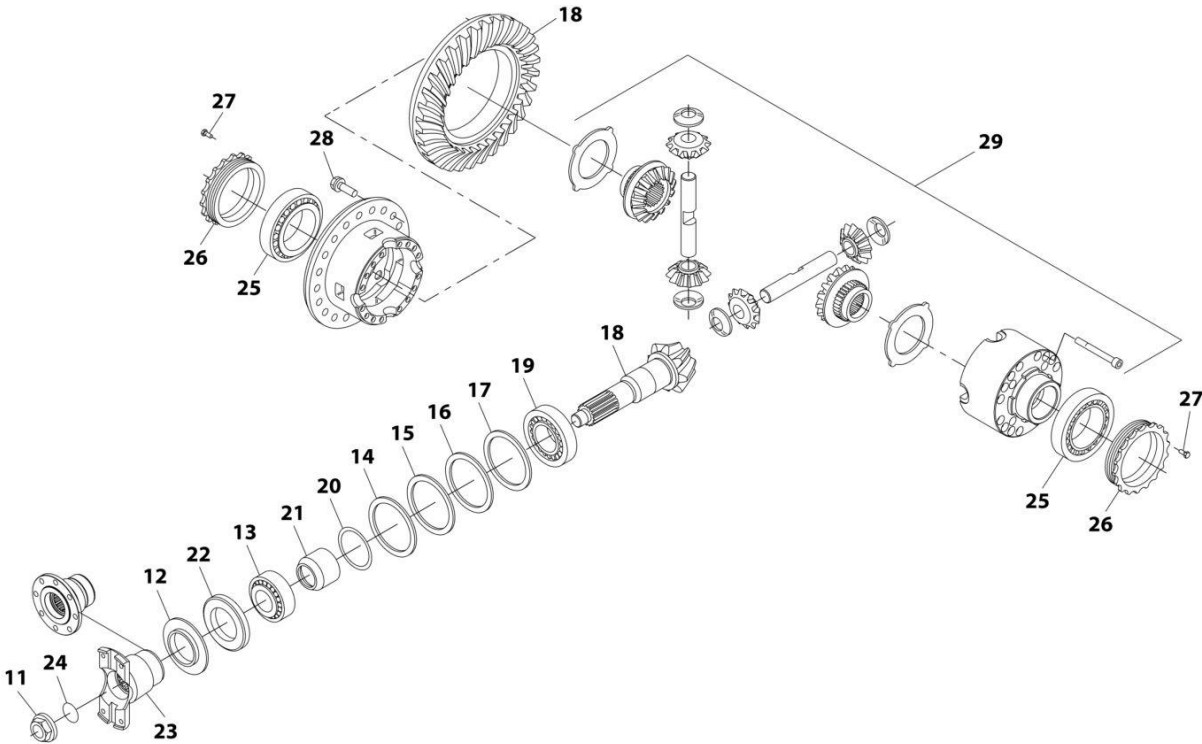
SECTION 5 - DRIVE TRAIN

FIGURE 5-8. FRONT AXLE - DIFFERENTIAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026491	2	RING NUT (Prior to Axle SN SITA703955)	
1	91514133	2	NUT, RING (Axle SN SITA703955 to Present)	
2	7026492	4	BOLT (Prior to Axle SN SITA703955)	
2	91514134	2	BOLT (Axle SN SITA703955 to Present)	
3	70022142	2	LOCKING PLATE (Prior to Axle SN SITA703955)	
4	80204033	2	ROLLER BEARING	
5	91514123	20	BOLT	
6	70024204	1	DIFFERENTIAL CARRIER	
7	7026495	1	BEVEL GEAR SET	
12	91514141	2	DIFFERENTIAL SIDE GEAR (Prior to Axle SN RITA729658)	
12	70025856	2	GEAR, DIFFERENTIAL SIDE (Axle SN RITA729658 to Present)	
13	70023491	4	FRICTION WASHER	
14	80204025	4	DIFFERENTIAL PINION (Prior to Axle SN RITA729658)	
14	70025339	4	PINION, DIFFERENTIAL (Axle SN RITA729658 to Present)	
15	80204035	1	ROLLER BEARING	
16	80204049	AR	SHIM	
16	80204050	AR	SHIM	
16	80204051	AR	SHIM	
16	80204052	AR	SHIM	
17	70023494	1	SPACER KIT	
18	70022140	1	SPACER	
19	80204048	1	ROLLER BEARING	
20	80204047	1	SEAL	
21	91514130	1	COVER PLATE	
22	91514131	1	FLANGE	
23	10725554	1	O-RING	
24	80204043	1	NUT	
25	70023490	1	DIFFERENTIAL SHAFT	
26	91514143	15	BOLT	
28	70023496	2	CLUTCH DISC	
K1	70025886	1	DIFFERENTIAL KIT, (includes items 6, 12 thru 14, 25, 26 & 28)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-9. FRONT AXLE - DIFFERENTIAL (SN 0160063540 to Present)



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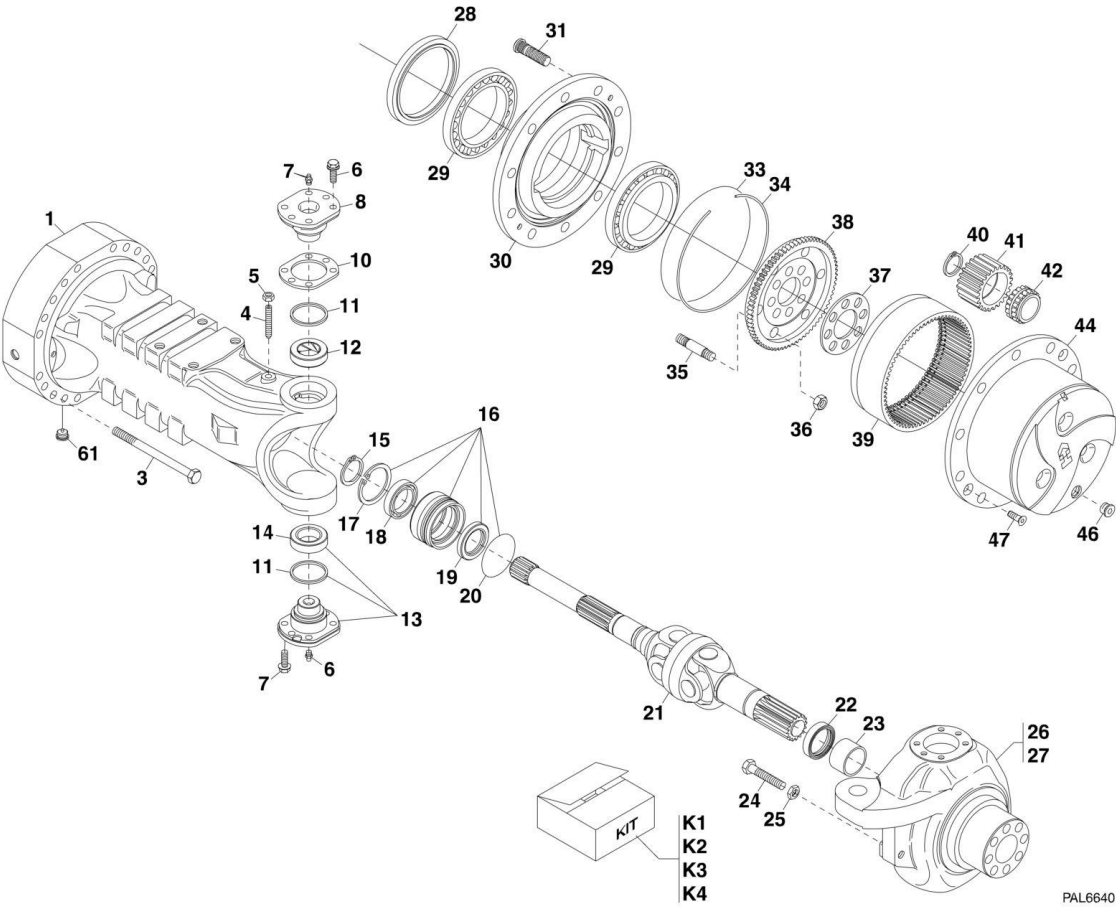
SECTION 5 - DRIVE TRAIN

FIGURE 5-9. FRONT AXLE - DIFFERENTIAL (SN 0160063540 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
11	80204043	1	NUT	
12	91514130	1	PLATE, COVER	
13	80204048	1	BEARING	
14	80204049	1	SHIM	
15	80204050	1	SHIM	
16	80204051	1	SHIM	
17	80204052	1	SHIM	
18	7026495	1	GEAR, BEVEL	
19	80204035	1	BEARING	
20	70023494	1	RING	
21	70022140	1	SPACER	
22	80204047	1	SEAL	
23	91514131	1	FLANGE	
24	10725554	1	O-RING	
25	80204033	2	BEARING	
26	91514133	2	NUT, RING	
27	91514134	2	BOLT	
28	91514123	20	BOLT	
29	70026766	1	ASSEMBLY, DIFFERENTIAL, (See FRONT AXLE DIFFERENTIAL ASSEMBLY for Breakdown)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-10. FRONT AXLE - HUB REDUCTION (Prior to SN 0160046229, SN 0160046235 through 0160063539, Excluding 0160045209, 0160045296, 0160045449 and 0160045636)



SECTION 5 - DRIVE TRAIN

FIGURE 5-10. FRONT AXLE - HUB REDUCTION (Prior to SN 0160046229, SN 0160046235 through 0160063539, Excluding 0160045209, 0160045296, 0160045449 and 0160045636)

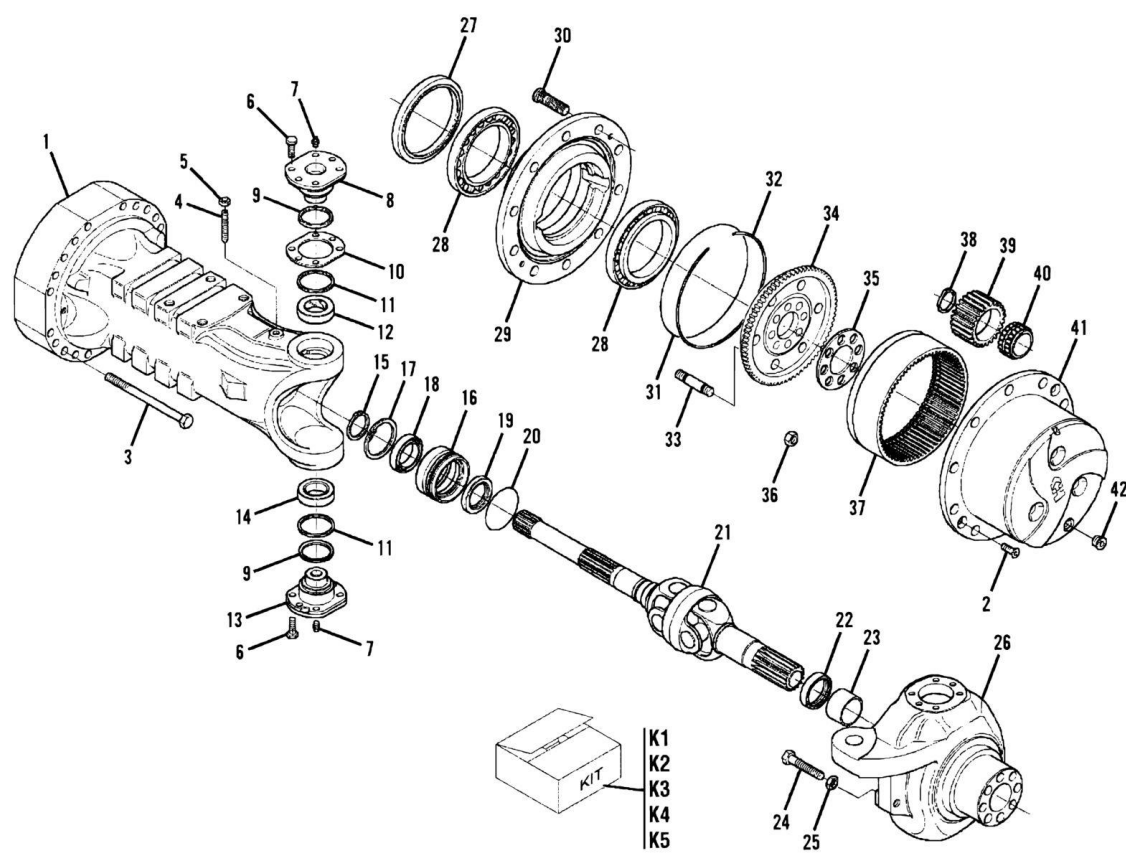
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70024206	2	AXLE CASE (Prior to Axle SN SITA765948)	
1	70026073	2	AXLE CASE (Axle SN SITA765948 to Present)	
3	70024207	40	BOLT, M16X195	
4	7026499	2	BOLT	
5	91514082	2	NUT	
6	91514123	24	BOLT	
7	91514099	4	GREASE FITTING	
8	70026063	2	PIN, PIVOT	
10	91514113	AR	SHIM, 0.006	
10	91514114	AR	SHIM, 0.008	
10	91514115	AR	SHIM, 0.019	
11	7028716	2	DUST SEAL	
12	7029312	2	BUSHING	
13	7029313	2	PIVOT PIN KIT, (includes items 7 & 8)	
14	91514095	2	BEARING	
15	80204071	2	CIRCLIP	
16	91514149	2	REDUCTION BUSHING, (includes items 17 thru 20)	
17	80204005	2	CIRCLIP	
18	91514146	2	BALL BEARING	
19	91514147	2	SEAL	
20	91514148	2	O-RING	
21	70026067	2	DOUBLE UNIVERSAL JOINT SHAFT	
22	70025857	2	SEAL	
23	91514111	1	THRUST BUSHING	
24	70021603	4	STEERING ADJUSTING BOLT	
25	80204065	4	NUT	
26	N.S.S.	1	LEFT STEERING CASE	
27	N.S.S.	1	RIGHT STEERING CASE	
28	7029300	2	SEAL	
29	80204076	4	TAPER ROLLER BEARING	
30	91514174	2	WHEEL HUB	
31	80214120	NLA	Stud, Wheel (Use PN 70030365)	
31	70030365	20	Stud, Wheel	
33	91514181	2	O-RING	
34	91514175	2	CIRCLIP	
35	91514180	16	STUD	
36	91514179	16	NUT	
37	91514178	2	LOCKING PLATE	
38	91514177	2	RING GEAR SUPPORT	
39	70024147	2	RING GEAR	
40	91514184	8	SNAP RING	
41	91514185	8	PLANET GEAR	
42	91514186	8	BEARING	
44	7029317	2	PLANET GEAR CARRIER	
46	91514188	4	PLUG	
47	91514189	4	BOLT	
61	91474513	2	MAGNET PLUG	
K1	7029743	2	PLANET GEAR CARRIER KIT, (includes items 40 thru 41 & 44)	
K2	7029746	1	LEFT STEERING CASE KIT, (includes items 23 & 26)	

SECTION 5 - DRIVE TRAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
K3	7029747	1	RIGHT STEERING CASE KIT, (includes items 23 & 27)	
K4	70024146	2	RING GEAR SUPPORT KIT, (includes items 34, 38 & 39)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-11. FRONT AXLE - HUB REDUCTION (SN 0160046229 through 0160046235, Including 0160045209, 0160045296, 0160045449 and 0160045636)



SECTION 5 - DRIVE TRAIN

FIGURE 5-11. FRONT AXLE - HUB REDUCTION (SN 0160046229 through 0160046235, Including 0160045209, 0160045296, 0160045449 and 0160045636)

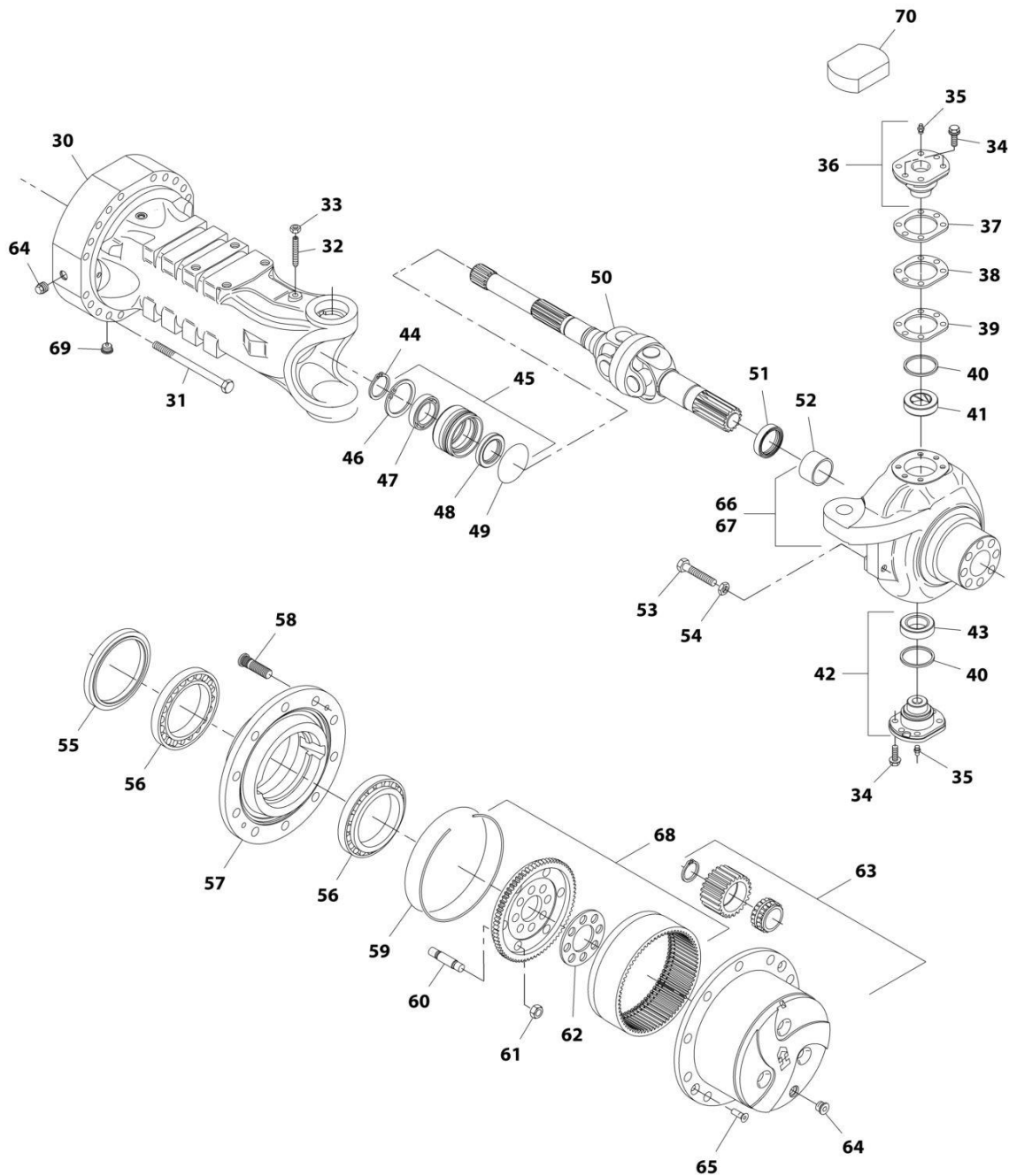
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026496	2	AXLE CASE	F
2	91514189	4	COUNTERSUNK BOLT	
3	7029309	40	BOLT	
4	7026499	2	BOLT	
5	91514082	2	NUT	
6	91514123	24	BOLT	
7	91514099	4	GREASE FITTING	
8	7029310	2	PIVOT PIN	
9	7029311	4	SPACER	
10	91514113	2	SHIM	
10	91514114	2	SHIM	
10	91514115	2	SHIM	
11	7028716	2	DUST SEAL	
12	7029312	2	BUSHING	
13	7029313	2	PIVOT PIN, (includes items 7 & 8)	
14	91514095	2	BEARING	
15	80204071	2	CIRCLIP	
16	91514149	2	REDUCTION BUSHING, (includes items 17 thru 20)	
17	80204005	2	CIRCLIP	
18	91514146	2	BALL BEARING	
19	91514147	2	SEAL	
20	91514148	2	O-RING	
21	70026067	2	DOUBLE UNIVERSAL JOINT SHAFT	
21	70023829	2	CROSS KIT (includes circlips)	
22	7028718	2	SEAL	
23	91514111	2	THRUST BUSHING	
24	N.S.S.	4	STEERING ADJUST BOLT	
25	N.S.S.	4	NUT	
26	N.S.S.	2	STEERING CASE, (see Position Kits for replacement)	
27	7029300	2	SEAL	
28	80204076	4	TAPER ROLLER BEARING	
29	91514174	2	WHEEL HUB	
30	80214120	20	WHEEL STUD	
31	91514181	2	O-RING	
32	91514175	2	CIRCLIP	
33	91514180	16	STUD	
34	91514177	2	RING GEAR SUPPORT	
35	91514178	2	LOCKING PLATE	
36	91514179	16	NUT	
37	91514176	2	RING GEAR	
38	91514184	8	CIRCLIP	
39	91514185	8	PLANETARY GEAR	
40	91514186	8	BEARING	
41	7029317	2	PLANETARY GEAR CARRIER	
42	91514188	2	PLUG	
K1	7029743	1	PLANETARY CARRIER KIT, (includes items 38 thru 41)	
K2	7029732	1	RING GEAR SUPPORT, (includes items 32, 34 & 37)	
K3	7029746	1	POSITION KIT, (left), (includes one each of items 23 & 26)	
K4	7029747	1	POSITION KIT, (right), (includes one each of items 23 & 26)	

SECTION 5 - DRIVE TRAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
K5	7028733	4	STEERING ADJUST BOLT KIT, (includes items 24 & 25)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-12. FRONT AXLE - HUB REDUCTION (SN 0160063540 to Present)



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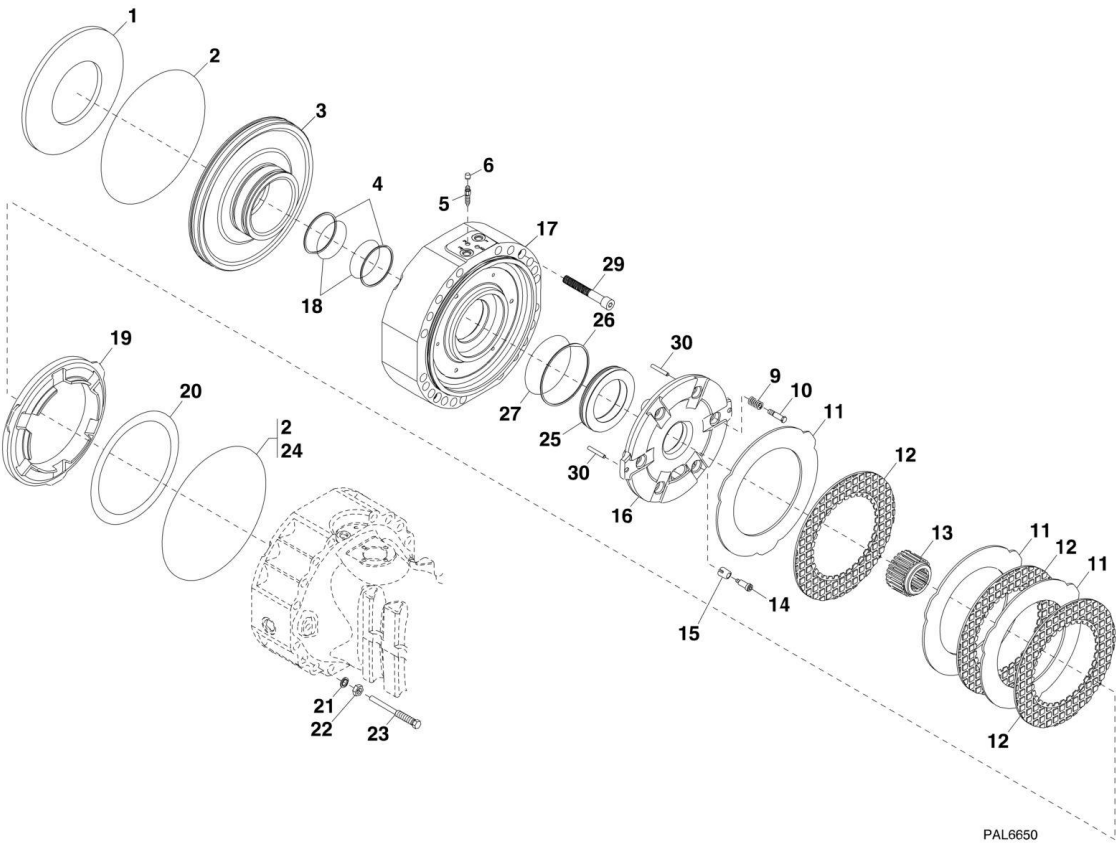
SECTION 5 - DRIVE TRAIN

FIGURE 5-12. FRONT AXLE - HUB REDUCTION (SN 0160063540 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
30	70026073	2	AXLE CASE	
31	70024207	40	BOLT, M16X195	
32	7026499	2	BOLT	
33	91514082	2	NUT	
34	70025562	24	BOLT	
35	91514099	4	FITTING, GREASE	
36	70026063	2	PIN, PIVOT, (Includes Item 35)	
37	91514113	2	SHIM	
38	91514114	2	SHIM	
39	91514115	2	SHIM	
40	7028716	4	SEAL, DUST	
41	7029312	2	BUSHING	
42	7029313	2	PIN, PIVOT	
43	91514095	2	BEARING	
44	80204071	2	CIRCLIP	
45	91514149	2	BUSHING, REDUCTION	
46	80204005	2	CIRCLIP	
47	91514146	2	BALL BEARING	
48	91514147	2	SEAL	
49	91514148	2	O-RING	
50	70026067	2	SHAFT, DOUBLE UNIVERSAL JOINT	
51	70026238	2	SEAL	
52	91514111	2	BUSHING, THRUST	
53	70021603	4	BOLT, STEERING ADJUST	
54	80204065	4	NUT	
55	70026002	2	SEAL	
56	80204076	4	BEARING	
57	91514174	2	HUB, WHEEL	
58	91514183	20	STUD	
59	91514181	2	O-RING	
60	91514180	16	STUD	
61	91514179	16	NUT	
62	91514178	2	PLATE, LOCKING	
63	7029743	2	KIT, PLANET GEAR CARRIER, (See FRONT AXLE PLANET GEAR CARRIER KIT for Breakdown)	
64	91514188	4	PLUG	
65	91514189	4	BOLT, COUNTERSUNK	
66	70026767	1	CASE, STEERING, (RF, Includes Item 52)	
67	70026768	1	CASE, STEERING, (LF, Includes Item 52)	
68	70024146	2	KIT, RING GEAR SUPPORT, (See FRONT AXLE RING GEAR SUPPORT KIT for Breakdown)	
69	91474513	2	PLUG, MAGNET	
70	91474524	2	PLUG, MAGNET	

SECTION 5 - DRIVE TRAIN

FIGURE 5-13. FRONT AXLE - BRAKES (Prior to SN 0160046229, SN 0160046235 through 0160063539, Excluding 0160045209, 0160045296, 0160045449 and 0160045636)



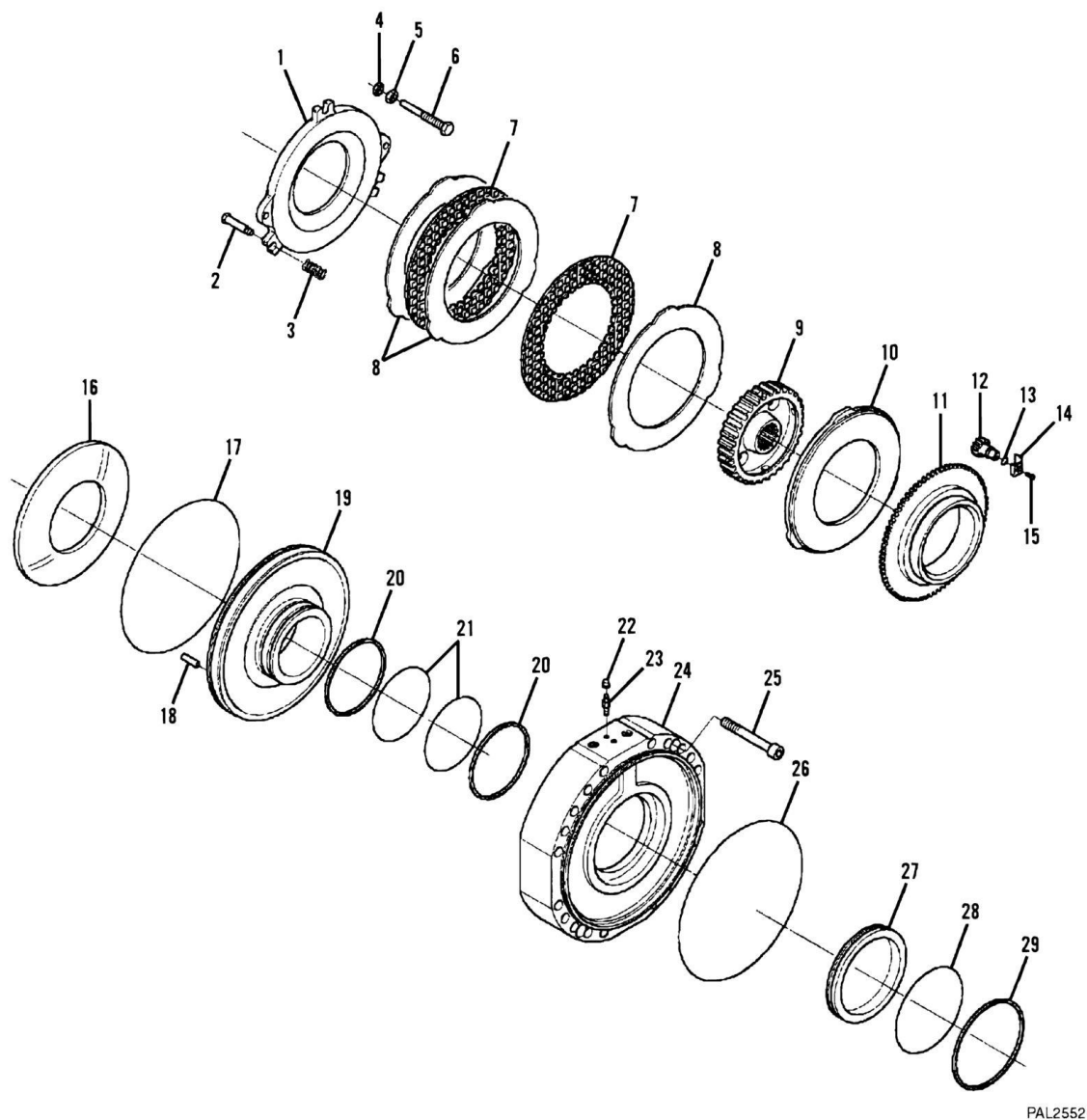
SECTION 5 - DRIVE TRAIN

FIGURE 5-13. FRONT AXLE - BRAKES (Prior to SN 0160046229, SN 0160046235 through 0160063539, Excluding 0160045209, 0160045296, 0160045449 and 0160045636)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91514151	2	SPRING	
2	7026713	2	O-RING	
3	70024209	2	PISTON	
4	7026716	4	BACK-UP RING	
5	80204281	4	BOLT	
6	80204117	4	PLUG	
9	91514159	6	SPRING	
10	70024210	6	ADJUSTING BOLT	
11	91514161	6	INTERMEDIATE BRAKE DISC	
12	7029735	6	BRAKE DISC	
13	7029734	2	REDUCTION BUSHING	
14	7029789	6	BOLT	
15	91514165	6	SPRING	
16	70024211	2	INTERMEDIATE BRAKE DISC	
17	70024212	2	COVER	
18	7026717	4	SEAL	
19	91514169	2	SPACER	
20	91514171	AR	SHIM, 0.2mm	
20	91514172	AR	SHIM, 0.3mm	
20	91514173	AR	SHIM, 0.5mm	
21	80204108	4	LOCKWASHER	
22	80204060	4	NUT	
23	70024213	4	BOLT, M12X122.5	
24	7026487	2	O-RING, (if equipped)	
25	7026718	2	PISTON	
26	7026720	2	BACK-UP RING	
27	7026719	2	O-RING	
29	70024214	4	BOLT, M14X100	
30	70024215	4	DOWEL	

SECTION 5 - DRIVE TRAIN

FIGURE 5-14. FRONT AXLE - BRAKES (SN 0160046229 through 0160046235, Including 0160045209, 0160045296, 0160045449 and 0160045636)



PAL2552

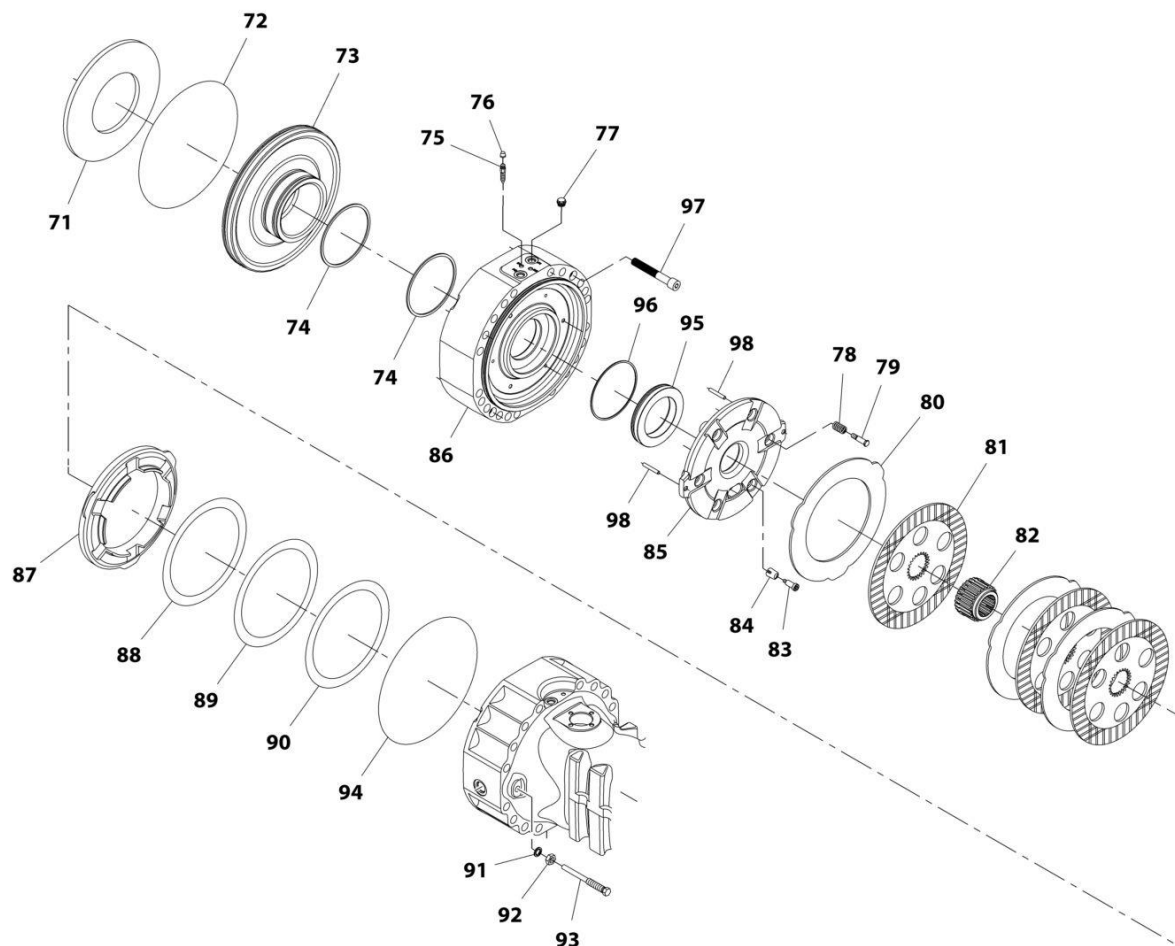
SECTION 5 - DRIVE TRAIN

FIGURE 5-14. FRONT AXLE - BRAKES (SN 0160046229 through 0160046235, Including 0160045209, 0160045296, 0160045449 and 0160045636)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026721	2	INTERMEDIATE BRAKE DISC	E
2	80204116	6	ADJUSTING BOLT	
3	80204115	6	SPRING	
4	80204108	4	LOCKWASHER	
5	80204060	4	NUT	
6	7026722	4	BOLT	
7	7029735	6	BRAKE DISC	
8	91514161	6	INTERMEDIATE BRAKE DISC	
9	7029734	2	REDUCTION BUSHING	
10	7026723	2	INTERMEDIATE BRAKE DISC	
11	7026724	2	RING	
12	80204123	2	PINION	
13	80204131	2	O-RING	
14	7026725	2	LOCKING PLATE	
15	80204121	2	HEXAGON BOLT	
16	91514151	1	BELLEVILLE WASHER	
17	7026713	2	O-RING	
18	80204166	2	ROLL PIN	
19	7026712	2	PISTON	
20	7026716	4	BACK-UP RING	
21	7026717	4	SEAL	
22	80204117	4	PLUG	
23	80204281	4	BLEEDING BOLT	
24	7026714	2	INTERMEDIATE COVER	
25	7026715	4	CYLINDER BOLT	
26	7026487	2	O-RING	
27	7026718	2	PISTON	
28	7026719	2	O-RING	
29	7026720	2	BACK-UP RING	

SECTION 5 - DRIVE TRAIN

FIGURE 5-15. FRONT AXLE - BRAKES (SN 0160063540 to Present)



ART_1001179605_4-D

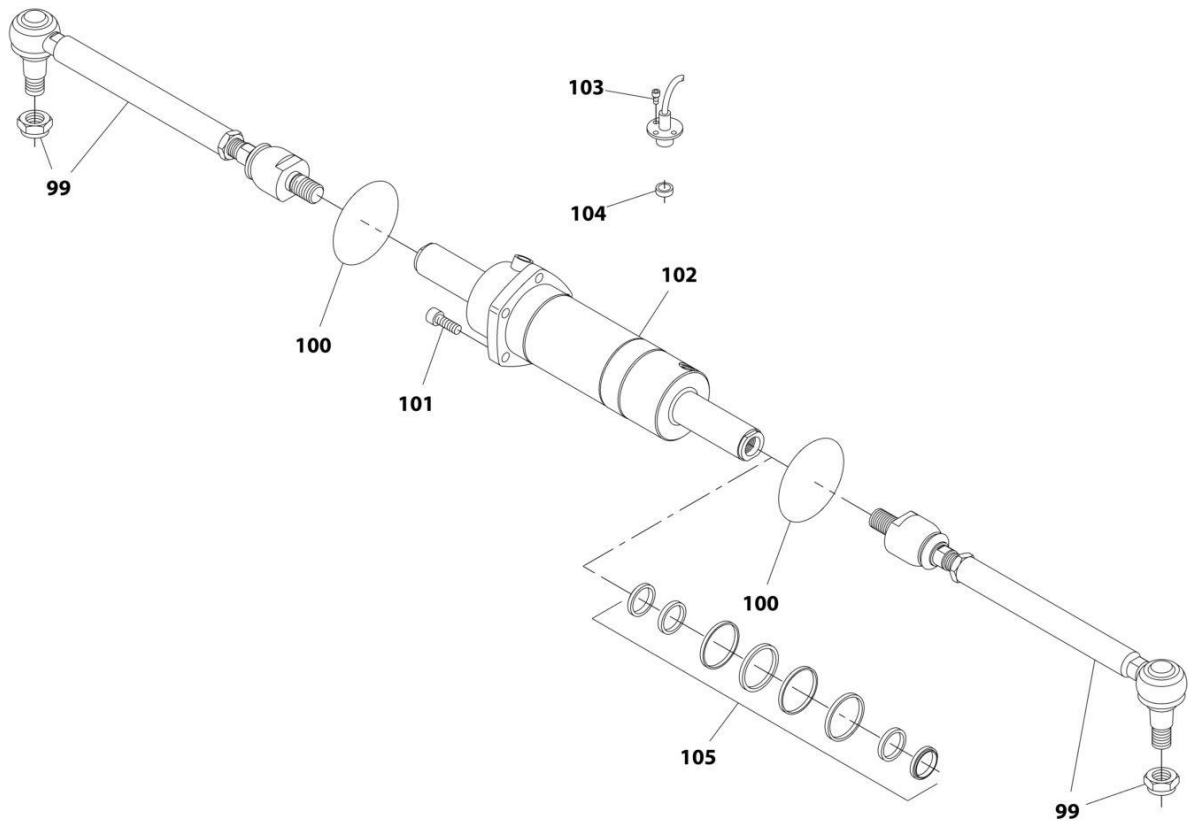
SECTION 5 - DRIVE TRAIN

FIGURE 5-15. FRONT AXLE - BRAKES (SN 0160063540 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
71	91514151	2	WASHER	
72	7026713	2	O-RING	
73	70024209	2	PISTON	
74	70026754	4	Seal	
75	80204281	4	BOLT, BLEEDING	
76	80204117	4	PLUG	
77	91514154	4	PLUG	
78	91514159	6	SPRING	
79	70024210	6	BOLT, ADJUSTING	
80	70027022	6	INTERMEDIATE BRAKE DISC	
81	7029735	6	DISC, BRAKE	
82	7029734	2	BUSHING, REDUCTION	
83	7029789	6	BOLT	
84	91514165	6	SPRING	
85	70024849	2	DISC, INTERMEDIATE BRAKE	
86	70026769	2	COVER	
87	70026756	2	SPACER	
88	91514171	2	SHIM, M0.2	
89	91514172	2	SHIM, M0.3	
90	91514173	2	SHIM, M0.5	
91	80204108	4	WASHER, LOCK	
92	80204060	4	NUT	
93	70024213	4	BOLT, M12X122.5	
94	7026487	2	O-RING	
95	7026718	2	PISTON	
96	70026755	2	SEAL	
97	70024214	4	BOLT, M14X100	
98	70024215	4	DOWEL	

SECTION 5 - DRIVE TRAIN

FIGURE 5-16. FRONT AXLE - STEERING (SN 0160063540 to Present)



ART_1001179605_5-D

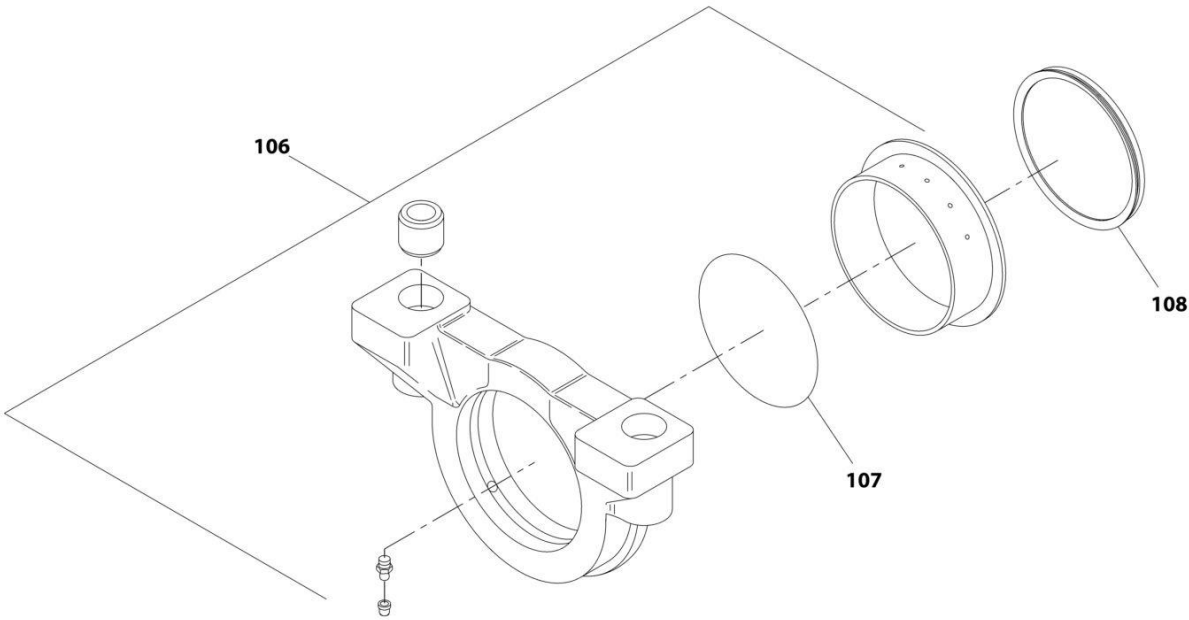
SECTION 5 - DRIVE TRAIN

FIGURE 5-16. FRONT AXLE - STEERING (SN 0160063540 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
99	70026753	2	BAR, (Includes Nut)	
99	70022773	2	NUT	
100	80204143	2	O-RING	
101	80204144	5	BOLT	
102	7026490	1	CYLINDER	
103	8008175	3	BOLT	
104	7029307	1	PLUG	
105	7029127	1	KIT, SEAL	

SECTION 5 - DRIVE TRAIN

FIGURE 5-17. FRONT AXLE - TRUNION (SN 0160063540 to Present)



ART_1001179605_6-D

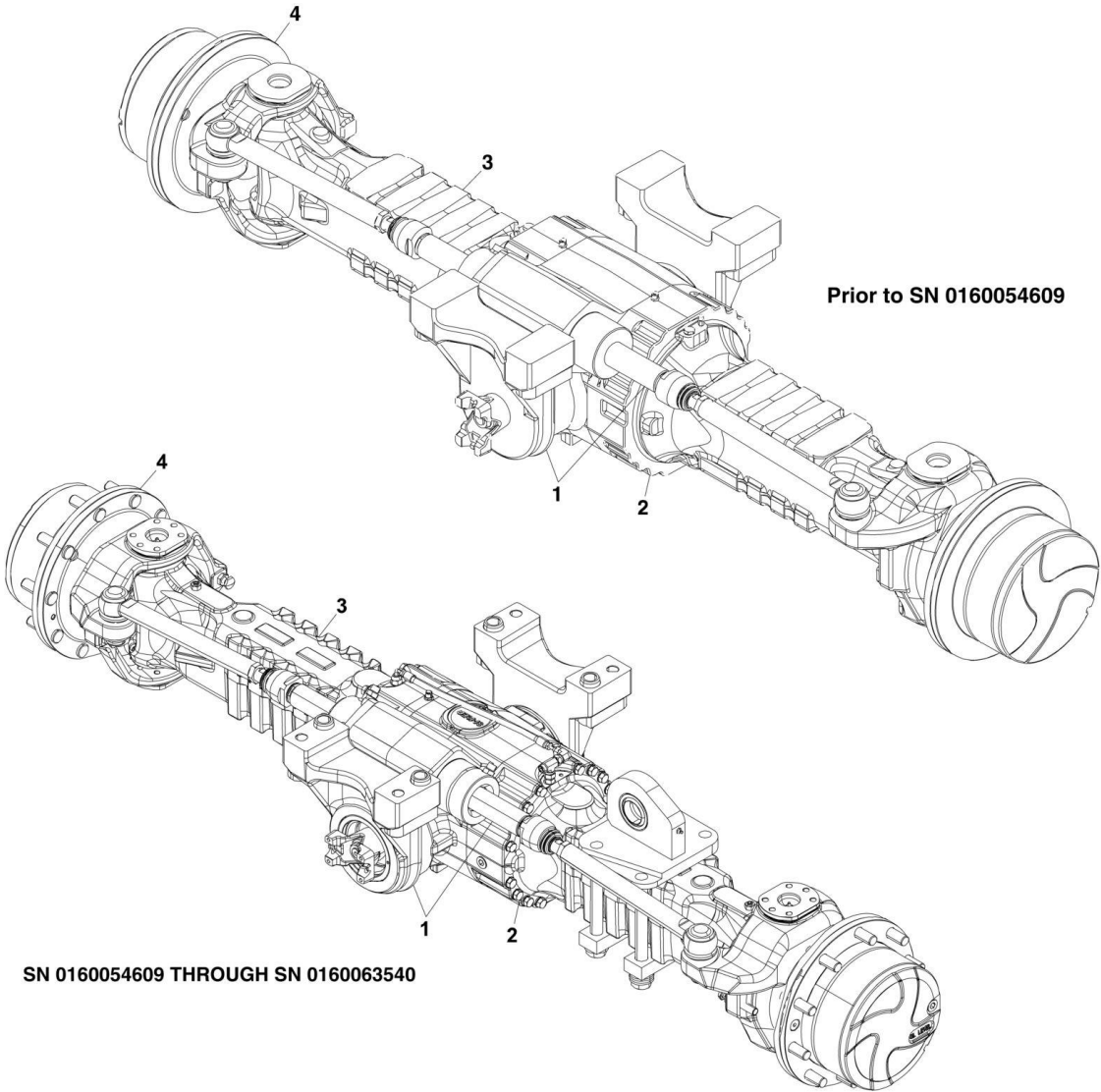
SECTION 5 - DRIVE TRAIN

FIGURE 5-17. FRONT AXLE - TRUNION (SN 0160063540 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
106	7029303	2	ASSEMBLY, FRONT AXLE SUPPORT, (See FRONT AXLE SUPPORT ASSEMBLY for Breakdown)	
107	7029304	2	O-RING	
108	7029305	2	DUST EXCLUDER	

SECTION 5 - DRIVE TRAIN

FIGURE 5-18. REAR AXLE



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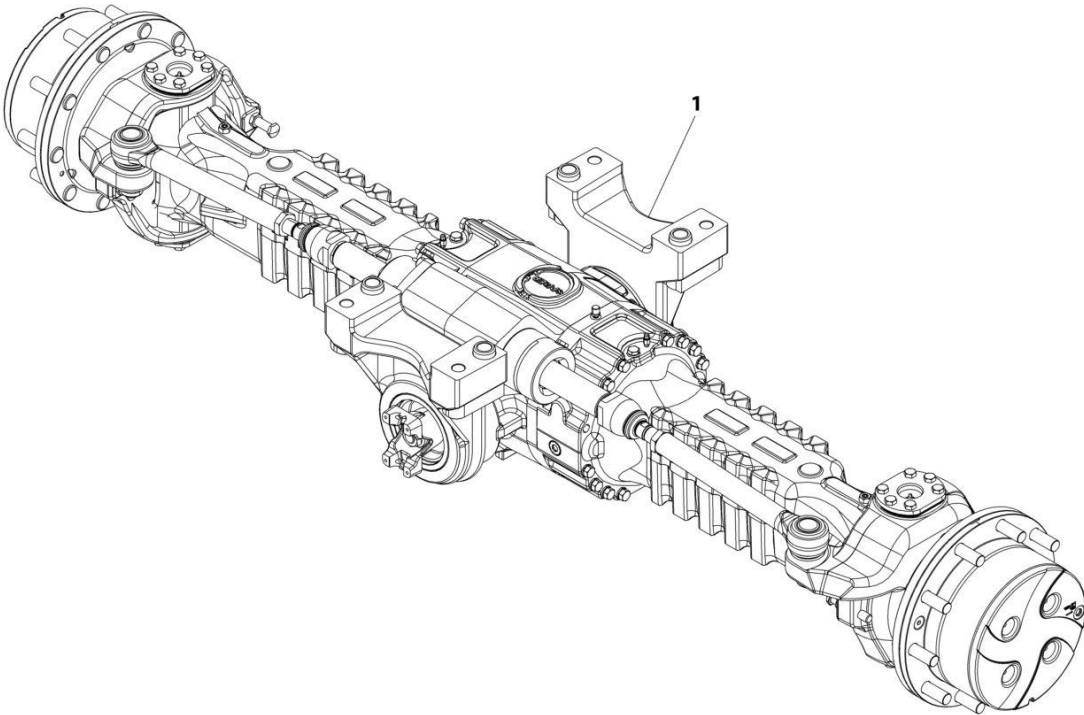
SECTION 5 - DRIVE TRAIN

FIGURE 5-18. REAR AXLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001136370	1	REAR AXLE, (includes all items) (Prior to SN 0160054609)	C
	1001139459	1	REAR AXLE, (includes all items) (SN 0160054609 through 0160063540)	E
1		Ref	CENTRAL HOUSING AND STEERING, (See CENTRAL HOUSING AND STEERING for Breakdown)	
2		Ref	DIFFERENTIAL, (See REAR AXLE – DIFFERENTIAL for Breakdown)	
3		Ref	HUB REDUCTION, (See REAR AXLE - HUB REDUCTION for Breakdown)	
4		Ref	BRAKES, (See REAR AXLE – BRAKES for Breakdown)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-19. REAR AXLE (SN 0160063541 to Present)



ART_1001179607-E

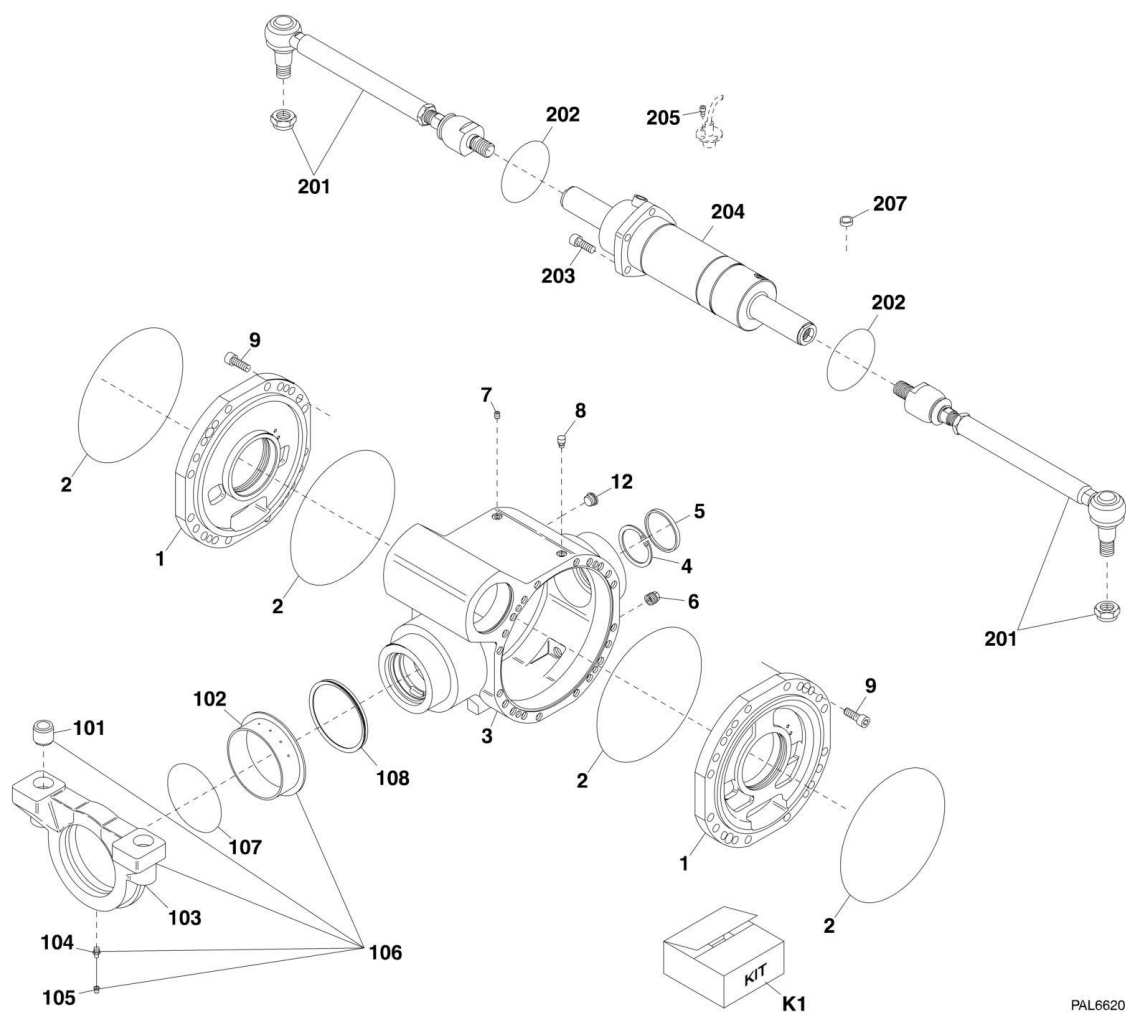
SECTION 5 - DRIVE TRAIN

FIGURE 5-19. REAR AXLE (SN 0160063541 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001179607	Ref	REAR AXLE	E
		Ref	REAR AXLE, CENTRAL HOUSING (See Separate Breakdown in this Section)	
2		Ref	REAR AXLE, DIFFERENTIAL (See Separate Breakdown in this Section)	
3		Ref	REAR AXLE, HUB REDUCTION (See Separate Breakdown in this Section)	
4		Ref	REAR AXLE, BRAKES (See Separate Breakdown in this Section)	
5		Ref	REAR AXLE, STEERING (See Separate Breakdown in this Section)	
6		Ref	REAR AXLE, TRUNION (See Separate Breakdown in this Section)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-20. REAR AXLE - CENTRAL HOUSING AND STEERING (Prior to SN 0160054609)



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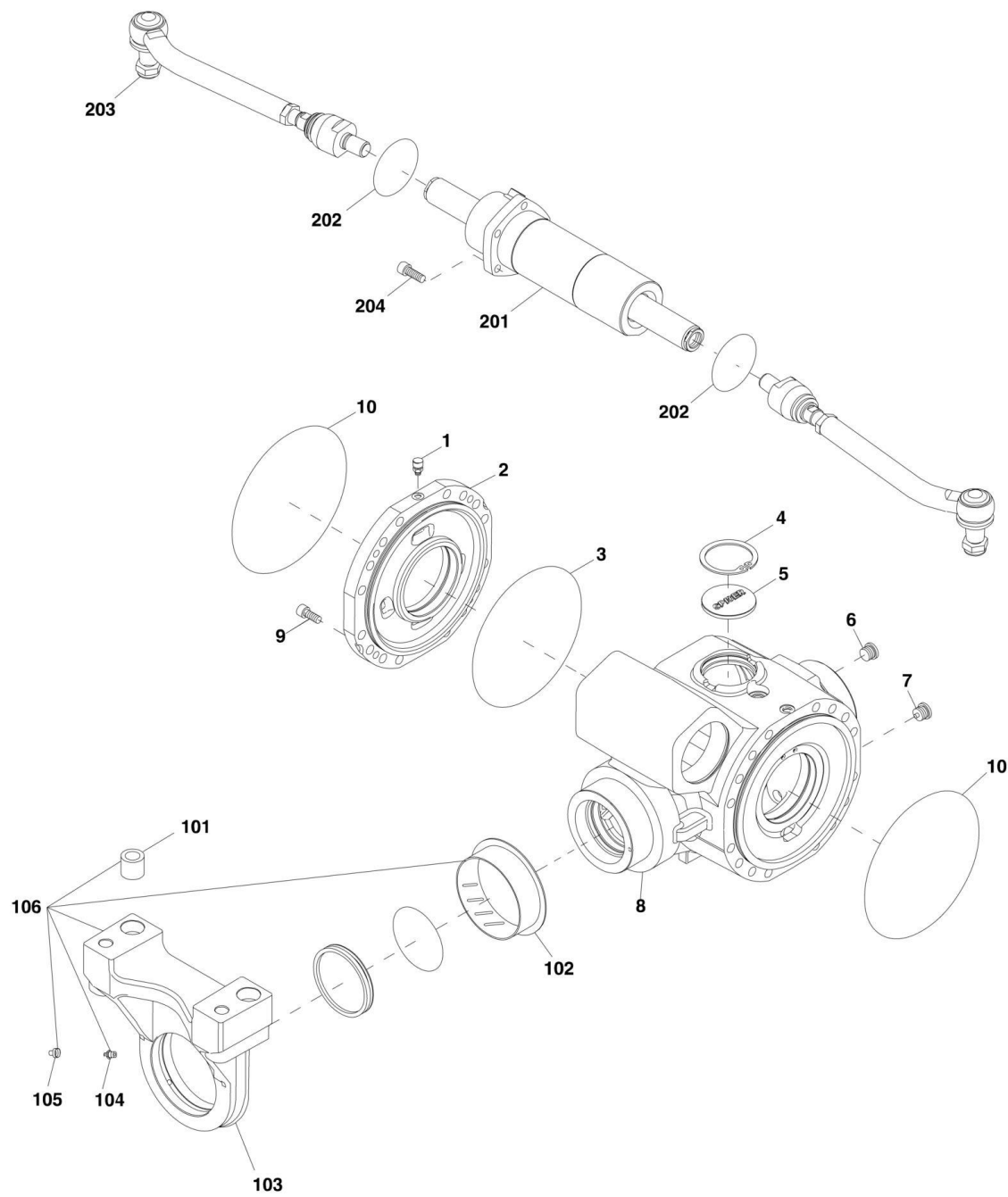
SECTION 5 - DRIVE TRAIN

FIGURE 5-20. REAR AXLE - CENTRAL HOUSING AND STEERING (Prior to SN 0160054609)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70021601	2	INTERMEDIATE COVER	
2	7026487	4	O-RING	
3	70023258	1	HOUSING	
4	80204005	1	CIRCLIP	
5	91514098	1	PLUG	
6	70021177	1	PLUG	
7	80204012	1	PLUG	
8	91474512	1	VENT	
9	80204144	4	BOLT	
12	91514087	1	PLUG	
101	7029290	4	BUSHING	
102	91514090	2	BUSHING	
103	7029291	2	SUPPORT	
104	91514099	2	GREASE FITTING	
105	80204117	2	PLUG	
106	7029303	2	SUPPORT ASSY, (includes items 101 thru 105)	
107	7029304	2	O-RING	
108	7029305	2	O-RING	
201	70021614	2	TIE-ROD	
202	80204143	2	O-RING	
203	80204144	5	BOLT	
204	7026490	1	STEERING CYLINDER	
205	7029306	3	BOLT	
207	7029307	1	PLUG	
K1	7029127	1	STEERING CYLINDER SEAL KIT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-21. REAR AXLE - CENTRAL HOUSING AND STEERING (SN 0160054609 through 0160063540)



PAP30800

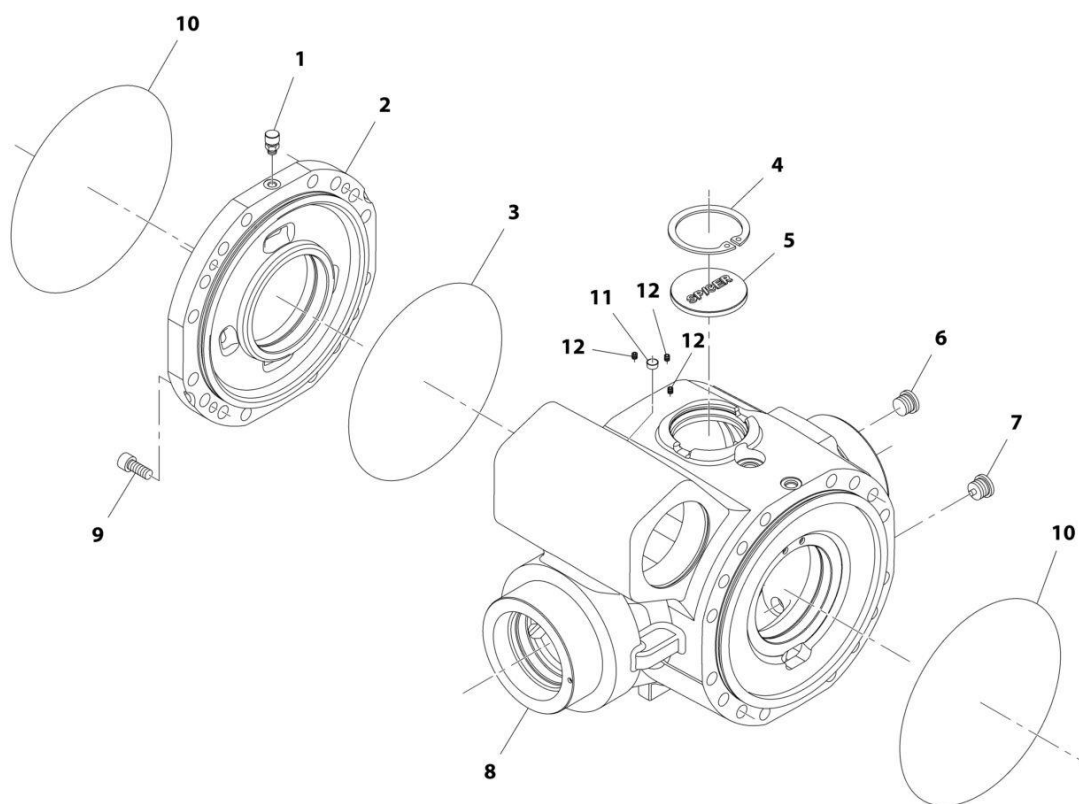
SECTION 5 - DRIVE TRAIN

FIGURE 5-21. REAR AXLE - CENTRAL HOUSING AND STEERING (SN 0160054609 through 0160063540)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91474512	1	VENT	
2	7029288	1	INTERMEDIATE COVER	
3	3969073	1	O-RING	
4	80204005	1	CIRCLIP	
5	91514098	1	PLUG	
6	91514087	1	PLUG	
7	70021177	1	MAGNET PLUG	
8	70025335	1	HOUSING	
9	91514101	4	BOLT	
10	91514089	2	O-RING	
101	7029290	4	BUSHING	
102	91514090	2	THRUST BUSHING	
103	7029291	2	SUPPORT	
104	91514099	2	GREASE FITTING	
105	80204117	2	PLUG	
106	7029292	2	SUPPORT	
201	7026490	1	CYLINDER	
202	80204143	2	O-RING	
203	70021614	2	BAR	
204	80204144	5	BOLT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-22. REAR AXLE - CENTRAL HOUSING (SN 0160063541 to Present)



ART_1001179607_1-E

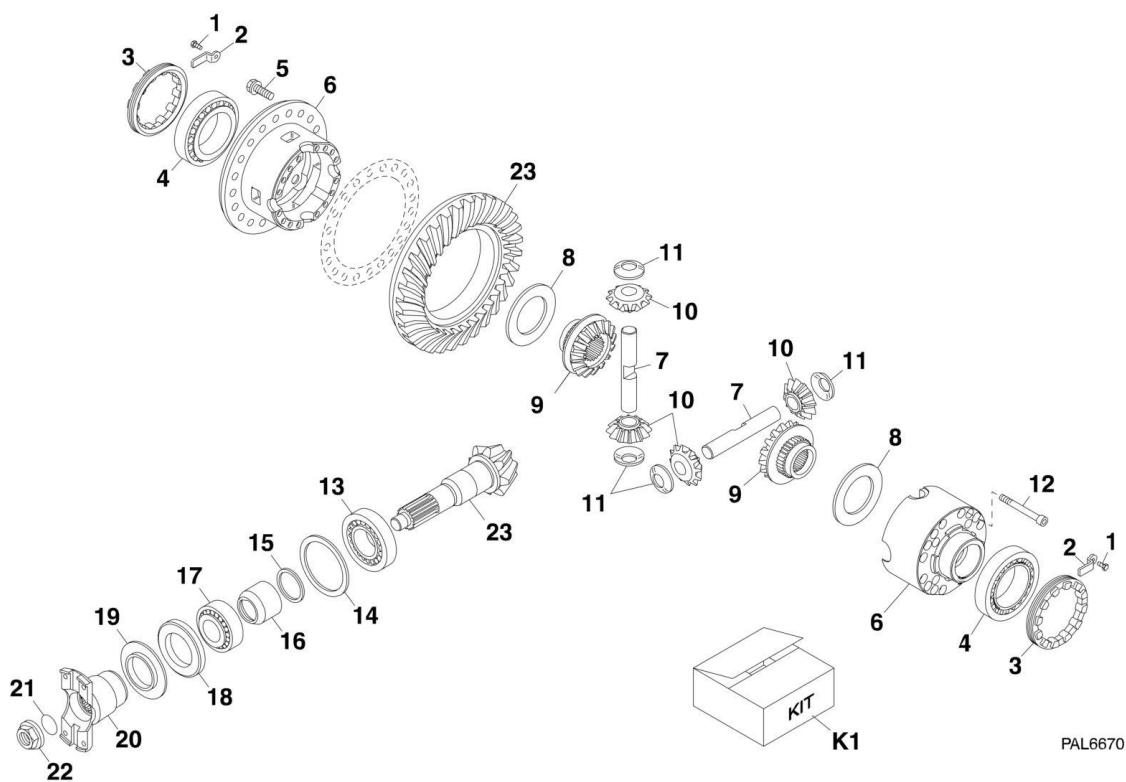
SECTION 5 - DRIVE TRAIN

FIGURE 5-22. REAR AXLE - CENTRAL HOUSING (SN 0160063541 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91474512	1	VENT	
2	7029288	1	COVER, INTERMEDIATE	
3	80204002	1	O-RING	
4	80204005	1	CIRCLIP	
5	91514098	1	PLUG	
6	91514087	1	PLUG	
7	70021177	1	PLUG, MAGNETIC	
8	70025335	1	HOUSING	
9	91514101	4	BOLT	
10	91514089	2	O-RING	
11	7029307	1	PLUG	
12	8008175	3	BOLT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-23. REAR AXLE - DIFFERENTIAL (Prior to SN 0160054609)



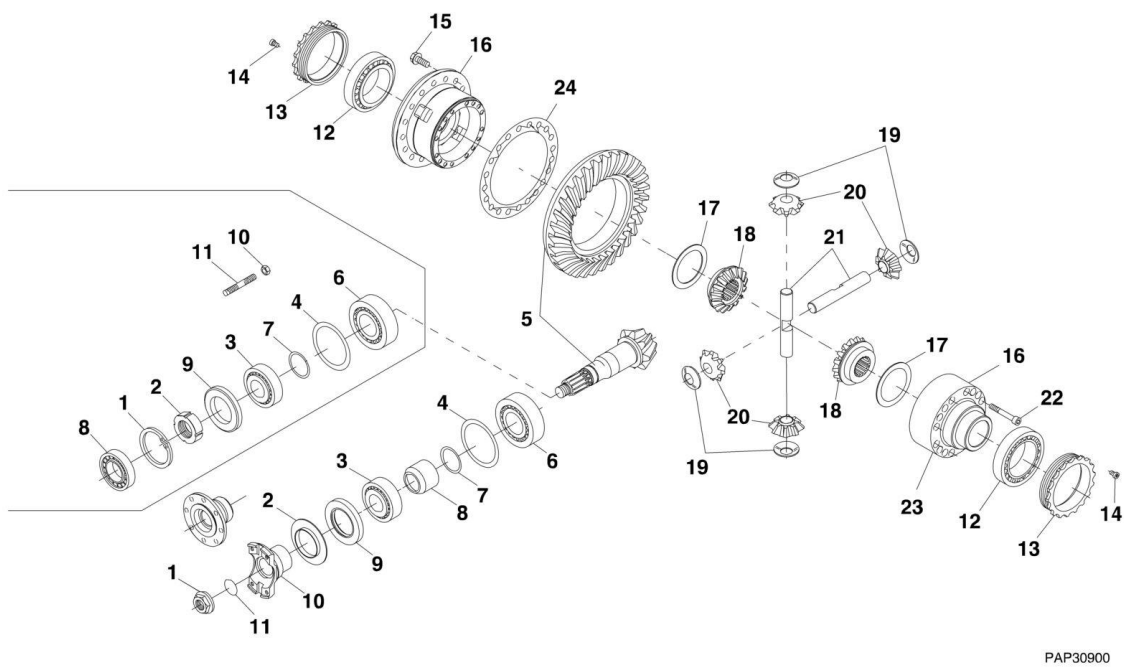
SECTION 5 - DRIVE TRAIN

FIGURE 5-23. REAR AXLE - DIFFERENTIAL (Prior to SN 0160054609)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026492	4	BOLT	
2	70022142	2	LOCKING PLATE	
3	7026491	2	RING NUT	
4	80204033	2	ROLLER BEARING	
5	91514123	20	BOLT	
6	70023487	1	DIFFERENTIAL CARRIER	
7	70023490	2	DIFFERENTIAL SHAFT	
8	70023493	2	FRICTION WASHER	
9	70023492	2	DIFFERENTIAL SIDE GEAR	
10	80204025	4	DIFFERENTIAL PINION	
11	70023491	4	FRICTION WASHER	
12	70023489	15	BOLT	
13	80204035	1	ROLLER BEARING	
14	80204049	AR	SHIM	
14	80204050	AR	SHIM	
14	80204052	AR	SHIM	
14	80204052	AR	SHIM	
15	70023494	1	RING KIT	
16	70022140	1	SPACER	
17	80204048	1	ROLLER BEARING	
18	80204047	1	SEAL	
19	91514130	1	COVER PLATE	
20	91514131	1	FLANGE	
21	80204044	1	O-RING	
22	80204043	1	NUT	
23	7026728	1	BEVEL GEAR SET	
K1	70023488	1	DIFFERENTIAL KIT, (includes items 6 thru 12)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-24. REAR AXLE - DIFFERENTIAL (SN 0160054609 through 0160063540)



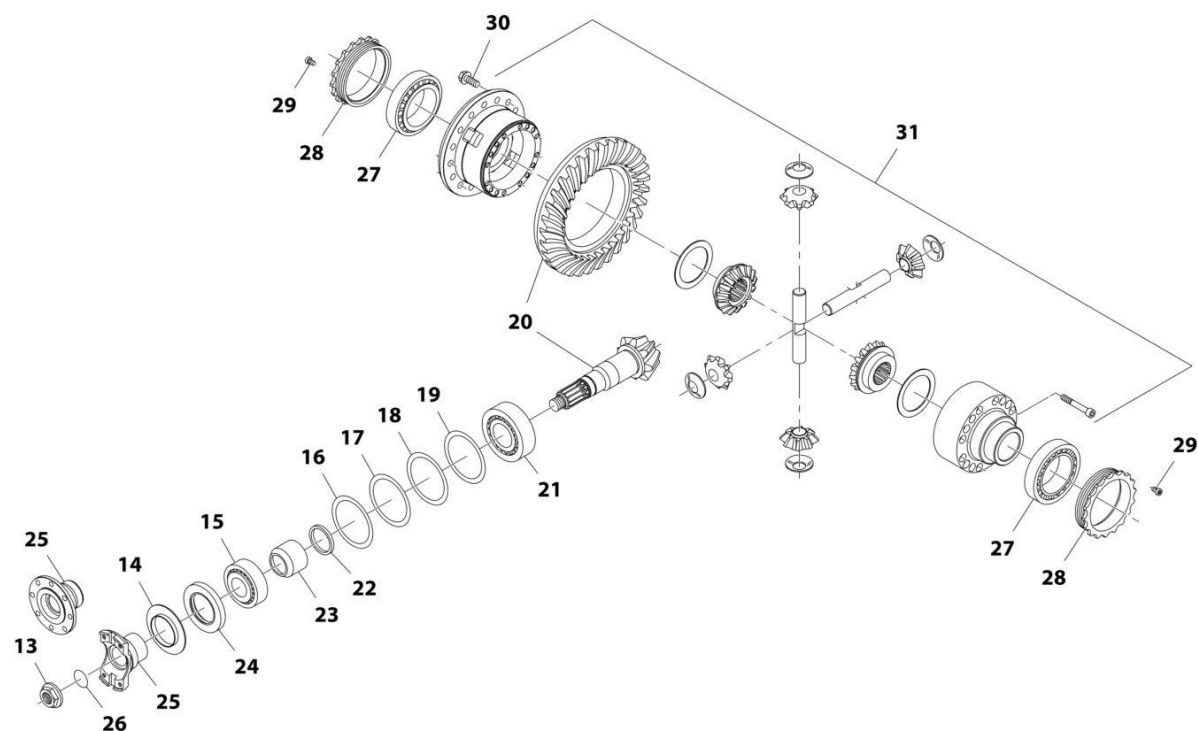
SECTION 5 - DRIVE TRAIN

FIGURE 5-24. REAR AXLE - DIFFERENTIAL (SN 0160054609 through 0160063540)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80204043	1	NUT	
2	91514130	1	COVER PLATE	
3	80204048	1	TAPER ROLLER BEARING	
4	80204049	1	SHIM	
4	80204050	1	SHIM	
4	80204051	1	SHIM	
4	80204052	1	SHIM	
5	70025336	1	BEVEL GEAR SET	
6	80204035	1	TAPER ROLLER BEARING	
7	70023494	1	RING KIT	
8	70022140	1	SPACER	
9	80204047	1	SEAL	
10	91514131	1	FLANGE	
11	80204044	1	O-RING	
12	80204033	2	TAPER ROLLER BEARING	
13	91514133	2	RING NUT	
14	91514134	2	BOLT	
15	91514123	16	BOLT	
16	70025337	1	DIFFERENTIAL CARRIER	
17	70023493	2	FRICTION WASHER	
18	70025338	2	DIFFERENTIAL SIDE GEAR	
19	70023491	4	FRICTION WASHER	
20	70025339	4	DIFFERENTIAL PINION	
21	70023490	2	DIFFERENTIAL SHAFT	
22	70023489	15	BOLT	
23	70025340	1	DIFFERENTIAL	

SECTION 5 - DRIVE TRAIN

FIGURE 5-25. REAR AXLE - DIFFERENTIAL (SN 0160063541 to Present)



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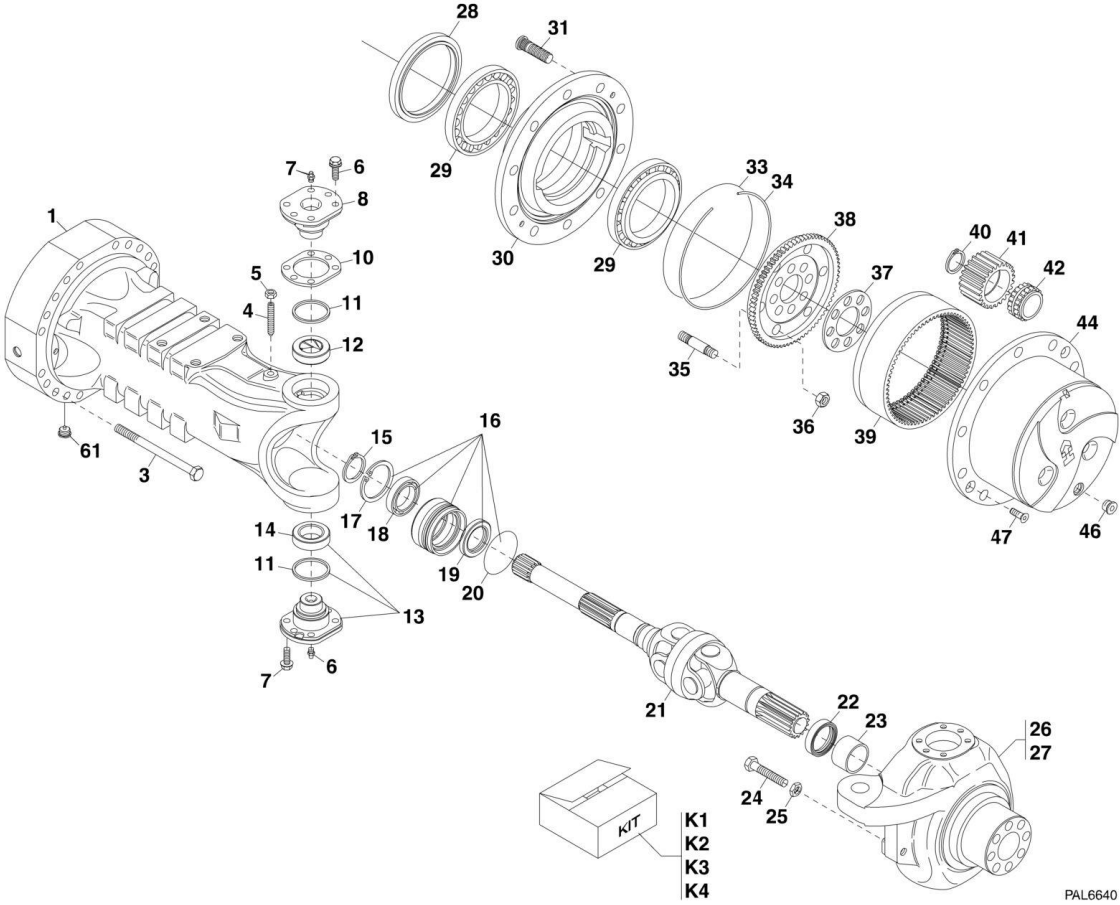
SECTION 5 - DRIVE TRAIN

FIGURE 5-25. REAR AXLE - DIFFERENTIAL (SN 0160063541 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
13	80204043	1	NUT	
14	91514130	1	COVER PLATE	
15	80204048	1	BEARING, TAPER ROLLER	
16	80204049	1	SHIM	
17	80204050	1	SHIM	
18	80204051	1	SHIM	
19	80204052	1	SHIM	
20	70025336	1	SET, BEVEL GEAR	
21	80204035	1	BEARING, TAPER ROLLER	
22	70023494	1	KIT, SPACER	
23	70022140	1	SPACER	
24	80204047	1	SEAL	
25	91514131	1	FLANGE	
26	10725554	1	O-RING	
27	80204033	2	BEARING, TAPER ROLLER	
28	91514133	2	NUT, RING	
29	91514134	2	BOLT	
30	91514123	16	BOLT	
31	70026030	1	ASSEMBLY, DIFFERENTIAL (See Separate Breakdown in this Section)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-26. REAR AXLE - HUB REDUCTION (Prior to SN 0160054609)



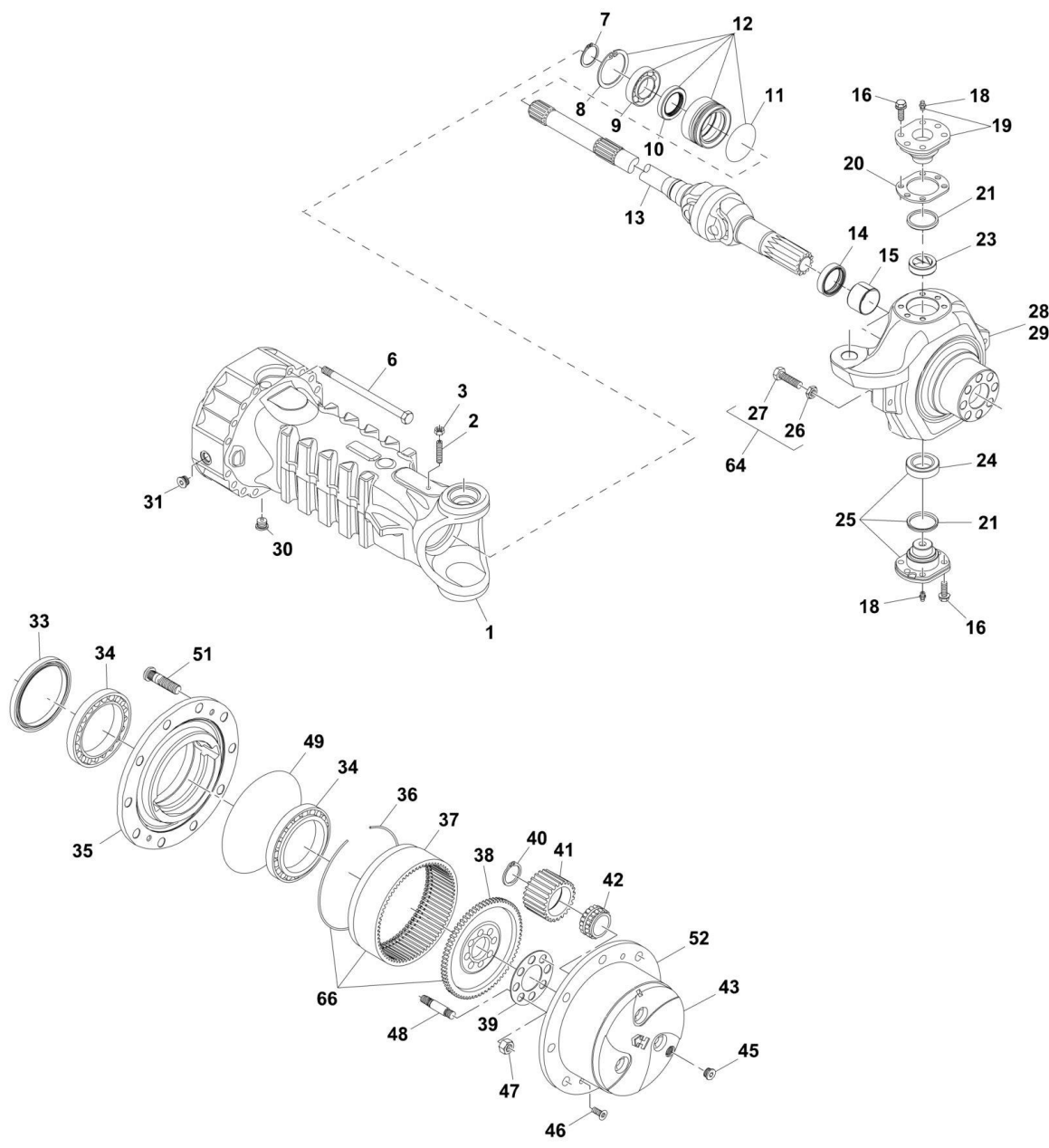
SECTION 5 - DRIVE TRAIN

FIGURE 5-26. REAR AXLE - HUB REDUCTION (Prior to SN 0160054609)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70021944	2	AXLE CASE	
3	70021604	40	BOLT, M16X195	
4	7026499	2	BOLT	
5	91514082	2	NUT	
6	91514123	24	BOLT	
7	91514099	4	GREASE FITTING	
8	7029310	2	PIVOT PIN	
10	91514113	AR	SHIM, 0.006	
10	91514114	AR	SHIM, 0.008	
10	91514115	AR	SHIM, 0.019	
11	7028716	2	DUST SEAL	
12	7029312	2	BUSHING	
13	7029313	2	PIVOT PIN KIT, (includes items 11 & 14)	
14	91514095	2	BEARING	
15	80204071	2	CIRCLIP	
16	91514149	2	REDUCTION BUSHING, (includes items 17 thru 20)	
17	80204005	2	CIRCLIP	
18	91514146	2	BALL BEARING	
19	91514147	2	SEAL	
20	91514148	2	O-RING	
21	70021602	2	DOUBLE UNIVERSAL JOINT	
22	7028718	2	SEAL	
23	91514111	1	THRUST BUSHING	
24	70021603	4	STEERING ADJUSTING BOLT	
25	80204065	4	NUT	
26	N.S.S.	1	LEFT STEERING CASE	
27	N.S.S.	1	RIGHT STEERING CASE	
28	7029300	2	SEAL	
29	80204076	4	TAPER ROLLER BEARING	
30	91514174	2	WHEEL HUB	
31	80214120	20	WHEEL STUD	
33	91514181	2	O-RING	
34	91514175	2	CIRCLIP	
35	91514180	16	STUD	
36	91514179	16	NUT	
37	91514178	2	LOCKING PLATE	
38	91514177	2	RING GEAR SUPPORT	
39	70024147	2	RING GEAR	
40	91514184	8	SNAP RING	
41	91514185	8	PLANET GEAR	
42	91514186	8	BEARING	
44	7029317	2	PLANET GEAR CARRIER	
46	91514188	4	PLUG	
47	91514189	4	BOLT	
61	91474513	2	MAGNET PLUG	
K1	7029743	2	PLANET GEAR CARRIER KIT, (includes items 40 thru 41 & 44)	
K2	7029746	1	LEFT STEERING CASE KIT, (includes items 23 & 26)	
K3	7029747	1	RIGHT STEERING CASE KIT, (includes items 23 & 27)	
K4	70024146	2	RING GEAR SUPPORT KIT, (includes items 34, 38 & 39)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-27. REAR AXLE - HUB REDUCTION (SN 0160054609 through 0160063540)



ART_31200728-5-27

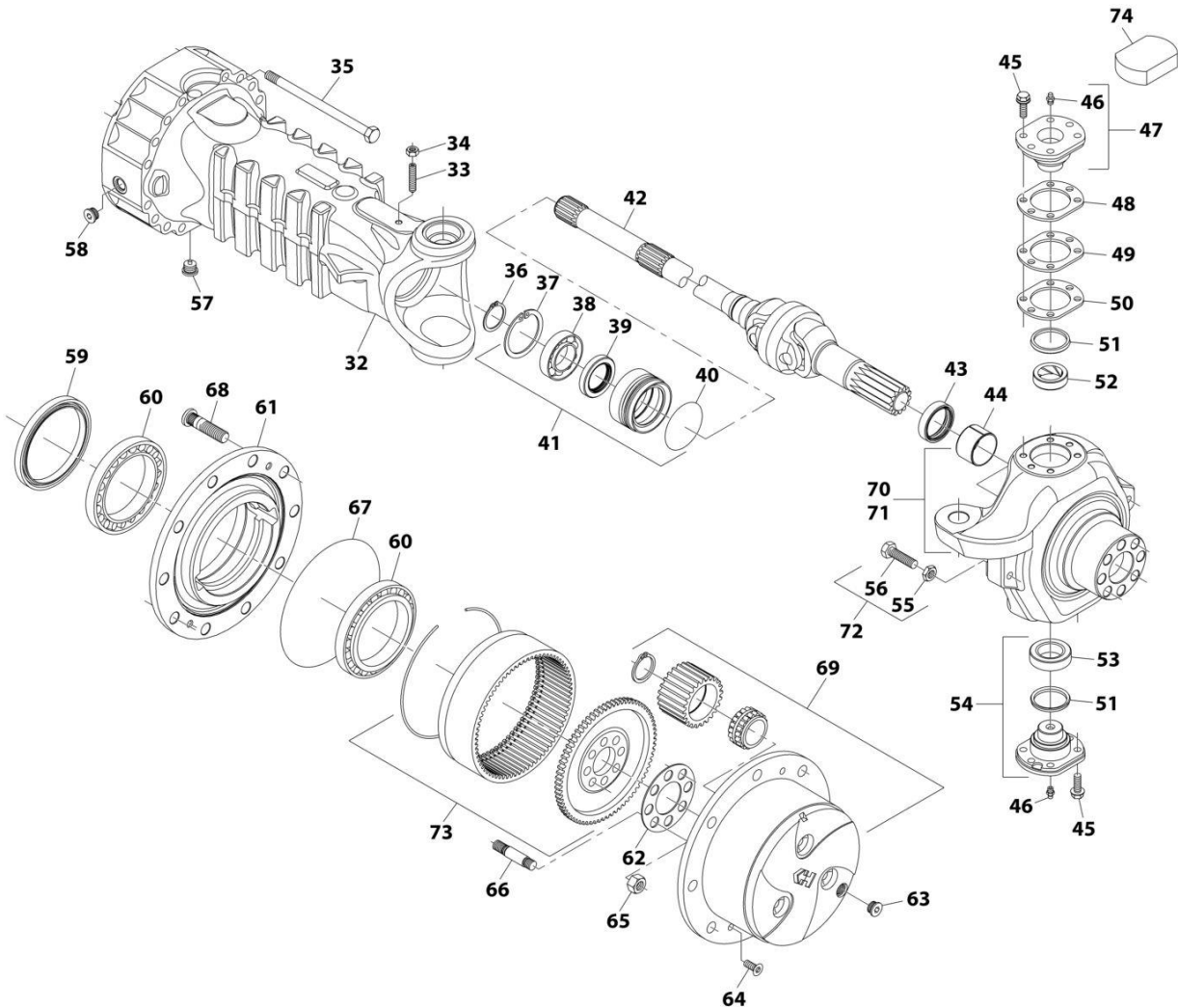
SECTION 5 - DRIVE TRAIN

FIGURE 5-27. REAR AXLE - HUB REDUCTION (SN 0160054609 through 0160063540)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70025341	2	AXLE CASE	
2	91514081	2	BOLT	
3	91514082	2	NUT	
6	70022814	32	HEXAGON BOLT	
7	80204071	2	CIRCLIP	
8	80204005	2	CIRCLIP	
9	91514146	2	BALL BEARING	
10	91514147	2	SEAL	
11	91514148	2	O-RING	
12	91514149	2	REDUCTION BUSHING	
13	70025342	2	DOUBLE UNIVERSAL JOINT	
14	7028718	2	SEAL	
15	91514111	1	THRUST BUSHING	
16	91514123	24	BOLT	
18	91514099	2	GREASE FITTING	
19	91514112	2	PIVOT PIN	
20	91514113	2	SHIM	
20	91514114	2	SHIM	
20	91514115	2	SHIM	
21	7028716	2	DUST EXCLUDER	
23	7028714	2	BUSHING	
24	91514095	2	BEARING	
25	7028715	2	PIVOT PIN	
26	80204065	4	NUT	
27	91514117	4	BOLT	
28	70025345	1	STEERING CASE ASSY (left), (includes item 23)	
29	70025346	1	STEERING CASE ASSY (right), (includes item 23)	
30	70021177	2	MAGNET PLUG	
31	91514188	2	PLUG	
33	7029300	2	SEAL	
34	80204076	4	TAPER ROLLER BEARING	
35	91514174	2	WHEEL HUB	
36	91514175	2	CIRCLIP	
37	70024147	2	RING GEAR	
38	91514177	2	RING GEAR SUPPORT	
39	91514178	2	LOCKING PLATE	
40	91514184	8	SNAP RING	
41	91514185	8	PLANET GEAR	
42	91514186	8	BEARING	
43	7029317	2	PLANET GEAR CARRIER	
45	91514087	2	PLUG	
46	91514189	4	COUNTERSUNK BOLT	
47	91514179	16	NUT	
48	91514180	16	STUD	
49	91514181	2	O-RING	
51	80214120	20	WHEEL STUD	
52	7029743	2	PLANET GEAR CARRIER	
64	7028733	1	STEERING ADJUST BOLT	
66	70024146	2	RING GEAR SUPPORT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-28. REAR AXLE - HUB REDUCTION (SN 0160063541 to Present)



ART_1001179607_3-E

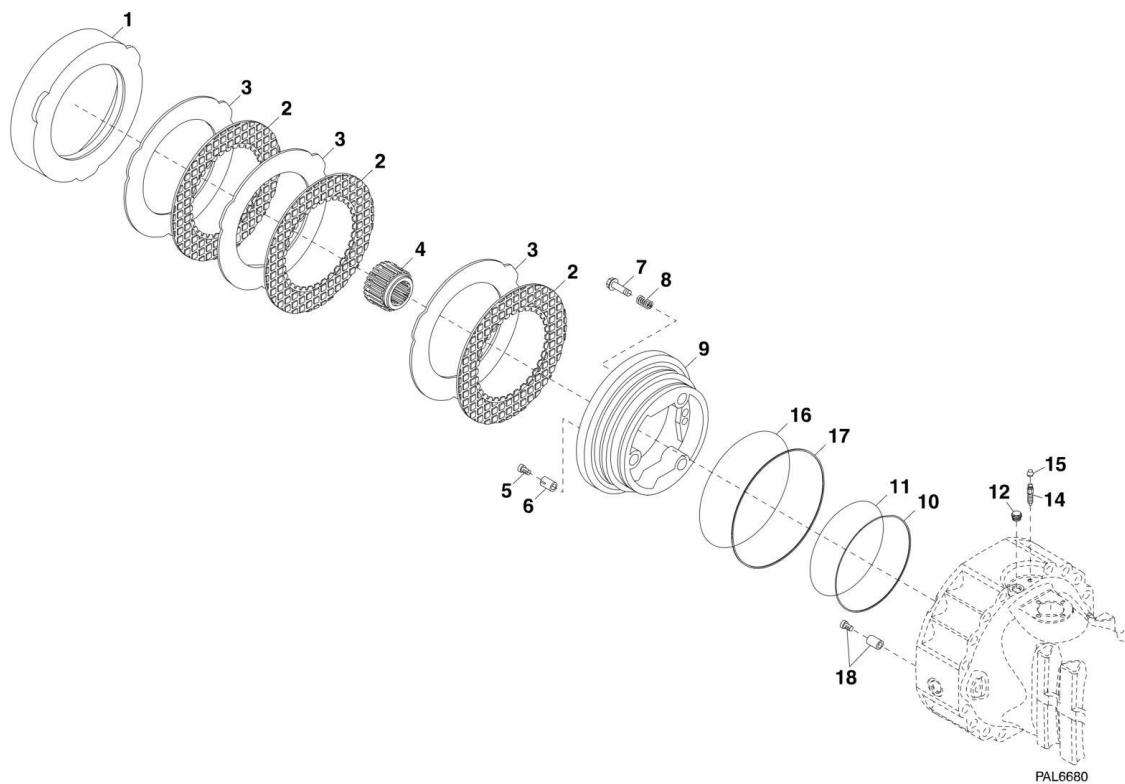
SECTION 5 - DRIVE TRAIN

FIGURE 5-28. REAR AXLE - HUB REDUCTION (SN 0160063541 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
32	70025341	2	CASE, AXLE	
33	91514081	2	BOLT	
34	91514082	2	NUT	
35	70022814	32	BOLT	
36	80204071	2	CIRCLIP	
37	80204005	2	CIRCLIP	
38	91514146	2	BALL BEARING	
39	91514147	2	SEAL	
40	91514148	2	O-RING	
41	91514149	2	BUSHING, REDUCTION	
42	70026066	2	JOINT, DOUBLE UNIVERSAL	
43	70026238	2	SEAL	
44	91514111	2	BUSHING, THRUST	
45	70025562	24	BOLT	
46	91514099	2	FITTING, GREASE	
47	91514112	2	PIVOT PIN	
48	91514113	2	SHIM	
49	91514114	2	SHIM	
50	91514115	2	SHIM	
51	7028716	2	SEAL, DUST	
52	7028714	2	BUSHING	
53	91514095	2	BEARING	
54	7028715	2	PIVOT PIN	
55	2401305	4	NUT	
56	91514117	4	BOLT	
57	70021177	2	PLUG	
58	91514087	2	PLUG	
59	70026002	2	SEAL	
60	80204076	4	BEARING, TAPER ROLLER	
61	91514174	2	WHEEL HUB	
62	91514178	2	PLATE, LOCKING	
63	91514188	2	PLUG	
64	91514189	4	BOLT, COUNTERSUNK	
65	91514179	16	NUT	
66	91514180	16	STUD	
67	91514181	2	O-RING	
68	80214120	20	STUD, WHEEL	
69	7029743	2	KIT, PLANET GEAR CARRIER (See Separate Breakdown in this Section)	
70	70026260	1	CASE, STEERING (LH STEER LINK)	
71	70026261	1	CASE, STEERING (RH STEER LINK)	
72	7028733	4	BOLT, STEERING ADJUST	
73	70024146	2	KIT, RING GEAR SUPPORT (See Separate Breakdown in this Section)	
74	91474524	2	COVER	

SECTION 5 - DRIVE TRAIN

FIGURE 5-29. REAR AXLE - BRAKES (Prior to SN 0160054609)



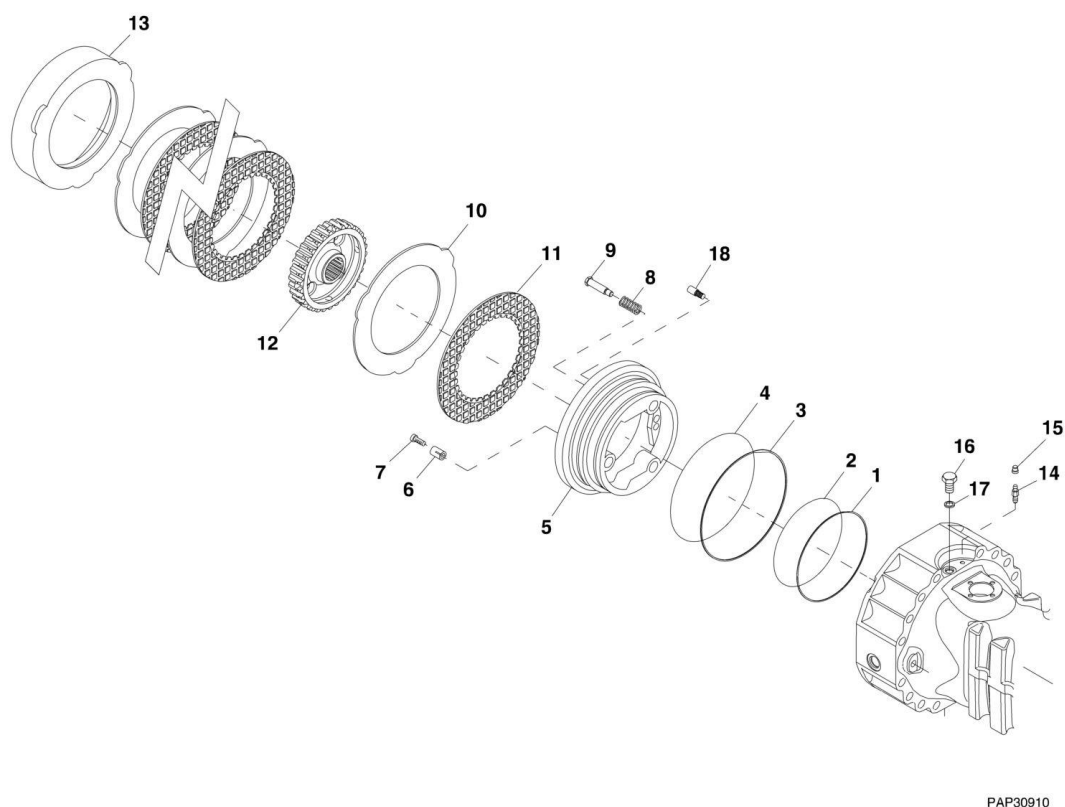
SECTION 5 - DRIVE TRAIN

FIGURE 5-29. REAR AXLE - BRAKES (Prior to SN 0160054609)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70021606	2	SPACER	
2	7029735	6	BRAKE DISC	
3	91514161	6	INTERMEDIATE BRAKE DISC	
4	7029734	2	REDUCTION BUSHING	
5	70021607	6	ADJUSTING BOLT	
6	91514165	6	SPRING	
7	91514160	6	ADJUSTING BOLT	
8	91514159	6	SPRING	
9	70024216	2	PISTON	
10	70021609	2	BACK-UP RING	
11	70021610	2	O-RING	
12	91514154	2	PLUG	
14	80204281	2	BLEEDING BOLT	
15	80204117	2	PLUG	
16	70021611	2	O-RING	
17	70021612	2	BACK-UP RING	
18	70021613	2	PILOT BOLT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-30. REAR AXLE - BRAKES (SN 0160054609 through 0160063540)



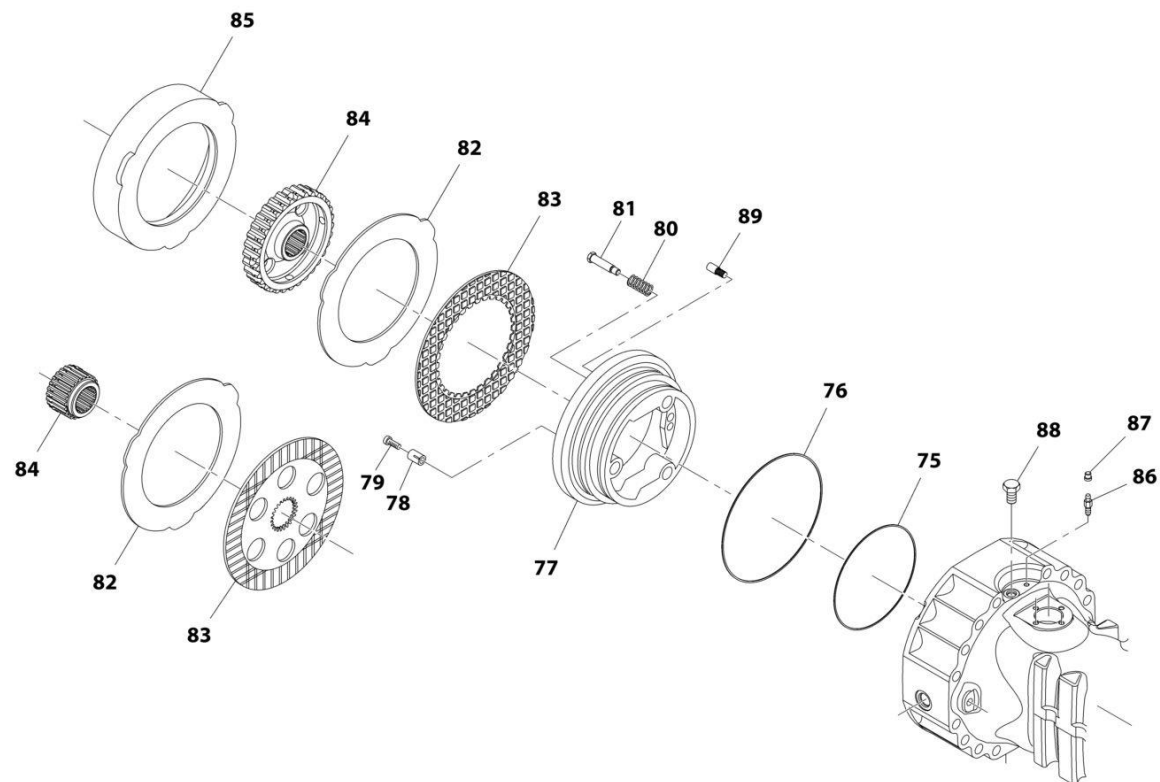
SECTION 5 - DRIVE TRAIN

FIGURE 5-30. REAR AXLE - BRAKES (SN 0160054609 through 0160063540)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	70021609	2	BACK-UP RING	
2	70021610	2	O-RING	
3	70021612	2	BACK-UP RING	
4	70021611	2	O-RING	
5	70024216	2	PISTON	
6	91514165	6	SPRING	
7	70021607	6	ADJUSTING BOLT	
8	91514159	6	SPRING	
9	91514160	6	ADJUSTING BOLT	
10	91514161	6	INTERMEDIATE BRAKE DISC	
11	7029735	6	BRAKE DISC	
12	7029734	2	REDUCTION BUSHING	
13	70021606	2	SPACER	
14	80204281	2	BLEEDING BOLT	
15	80204117	2	PLUG	
16	91514154	2	PLUG	
18	70021613	2	PILOT BOLT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-31. REAR AXLE - BRAKES (SN 0160063541 to Present)



ART_1001179607_4-E

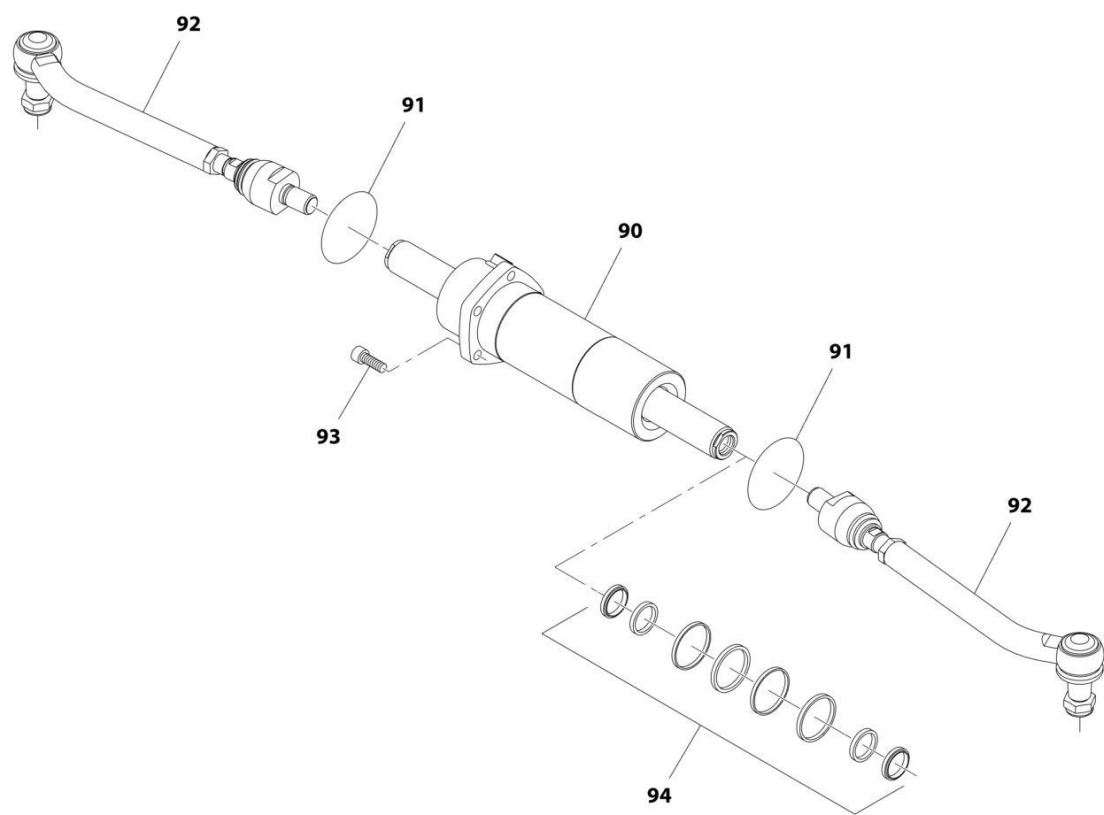
SECTION 5 - DRIVE TRAIN

FIGURE 5-31. REAR AXLE - BRAKES (SN 0160063541 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
75	70026747	2	SEAL	
76	70026748	2	SEAL	
77	70024216	2	PISTON	
78	91514165	6	SPRING	
79	70021607	6	BOLT, ADJUSTING	
80	91514159	6	SPRING	
81	70024210	6	BOLT, ADJUSTING	
82	91514161	6	DISC, INTERMEDIATE BRAKE	
83	7029735	6	DISK, BRAKE	
84	7029734	2	BUSHING, REDUCTION	
85	70021606	2	SPACER	
86	2960243	2	BOLT, BLEEDING	
87	80204117	2	PLUG	
88	91514154	2	BOLT	
89	70021613	2	BOLT, PILOT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-32. REAR AXLE - STEERING (SN 0160063541 to Present)



ART_1001179607_5-E

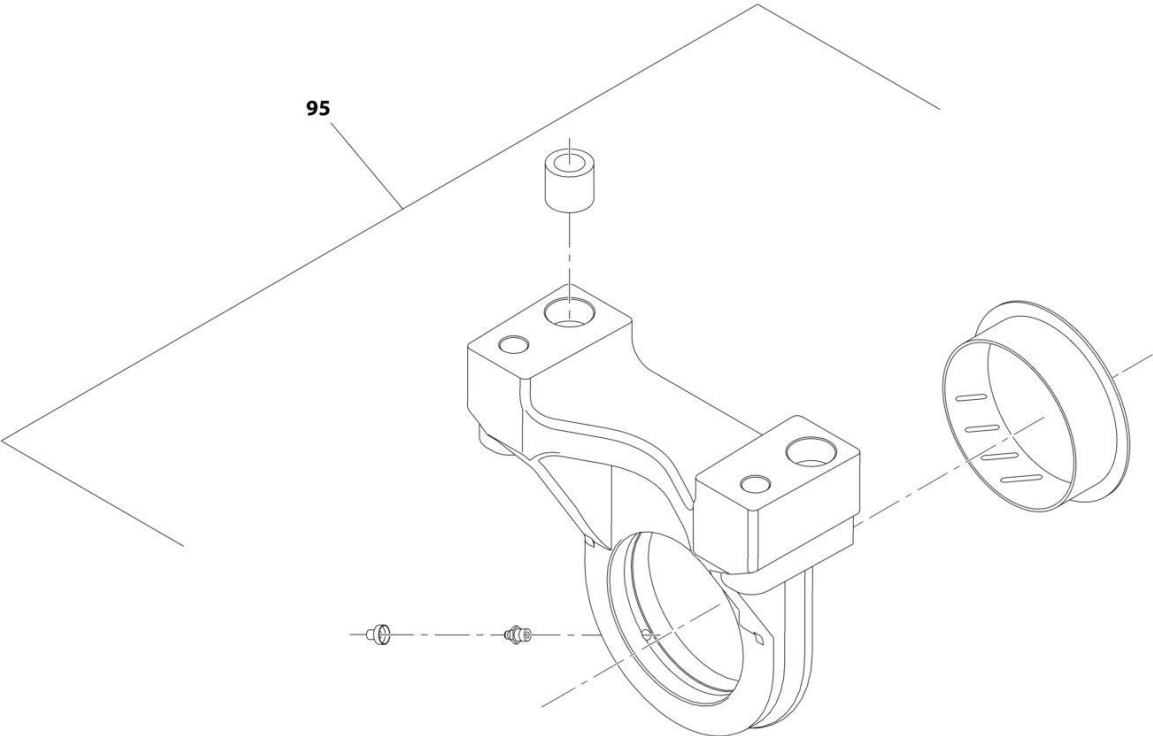
SECTION 5 - DRIVE TRAIN

FIGURE 5-32. REAR AXLE - STEERING (SN 0160063541 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
90	7026490	1	CYLINDER	
91	80204143	2	O-RING	
92	70026753	2	BAR	
93	80204144	5	BOLT	
94	7029127	1	SEAL KIT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-33. REAR AXLE - TRUNION (SN 0160063541 to Present)



ART_1001179607_6-E

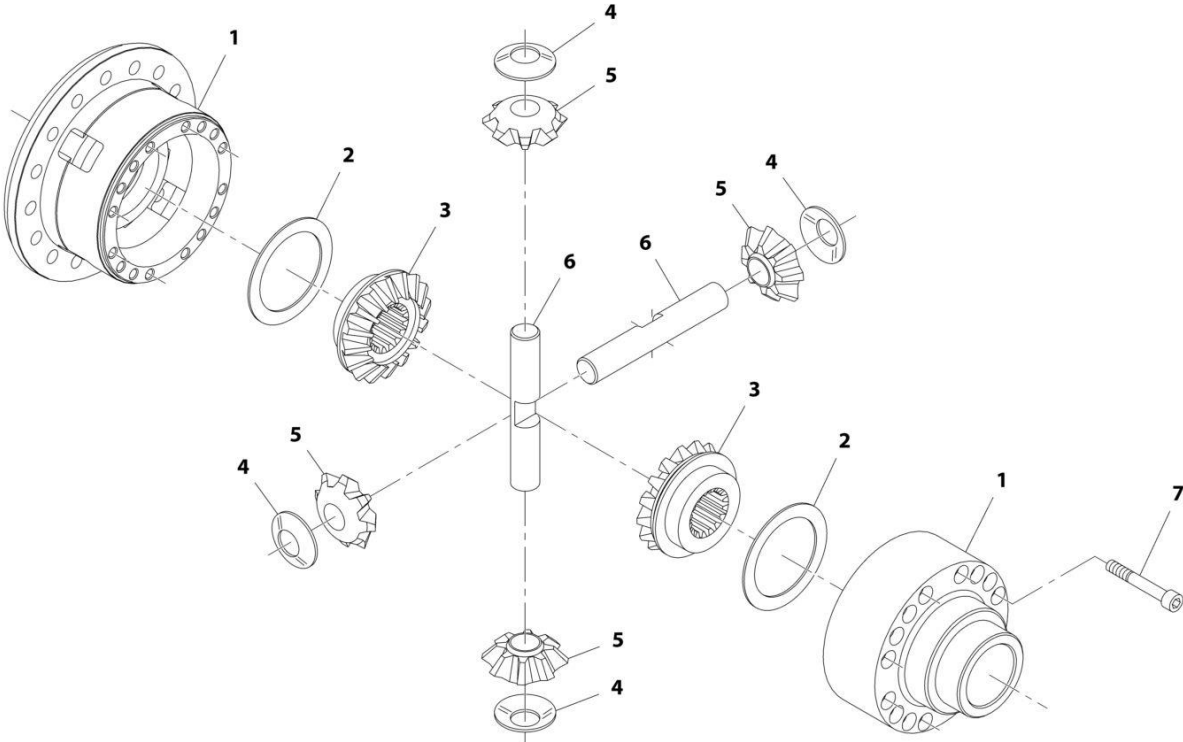
SECTION 5 - DRIVE TRAIN

FIGURE 5-33. REAR AXLE - TRUNION (SN 0160063541 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
95	7029292	2	REAR AXLE SUPPORT ASSEMBLY (See Separate Breakdown in this Section)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-34. REAR AXLE - DIFFERENTIAL ASSEMBLY (SN 0160063541 to Present)



ART_1001179607_7-E

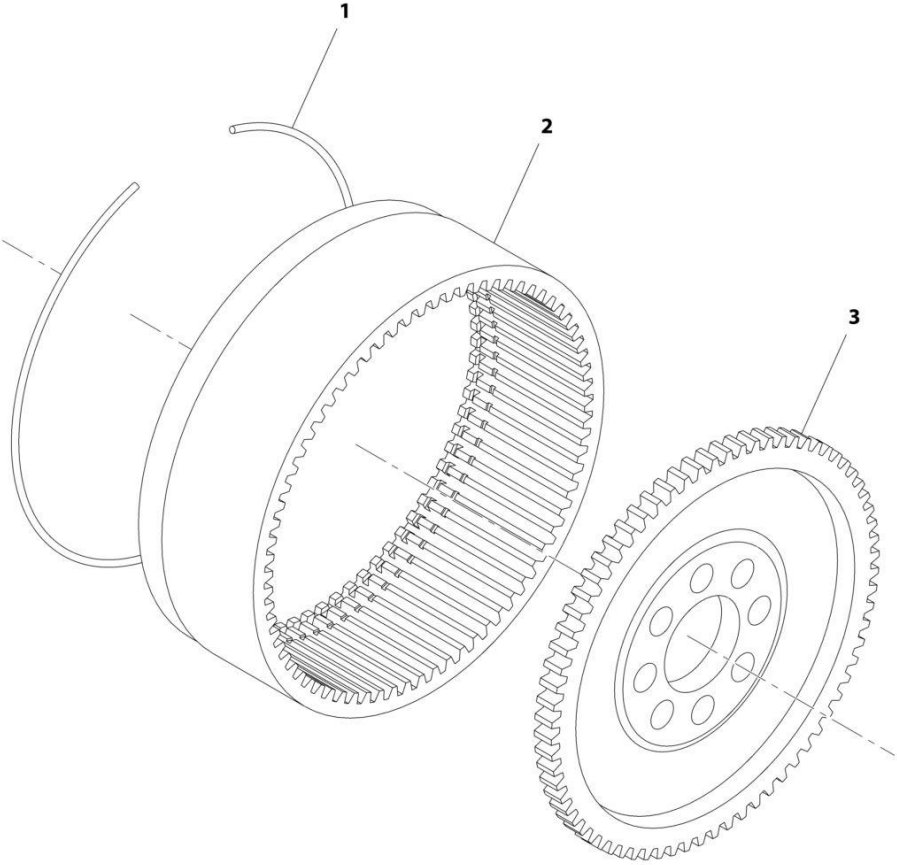
SECTION 5 - DRIVE TRAIN

FIGURE 5-34. REAR AXLE - DIFFERENTIAL ASSEMBLY (SN 0160063541 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70026030	Ref	REAR AXLE DIFFERENTIAL ASSEMBLY	
1	70025337	1	DIFFERENTIAL CARRIER	
2	70023493	2	WASHER, FRICTION	
3	70025338	2	GEAR, DIFFERENTIAL SIDE	
4	70023491	4	WASHER, FRICTION	
5	70025339	4	PINION, DIFFERENTIAL	
6	70023490	2	SHAFT, DIFFERENTIAL	
7	70023489	15	BOLT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-35. REAR AXLE - RING GEAR SUPPORT KIT (SN 0160063541 to Present)



ART_1001179607_8-E

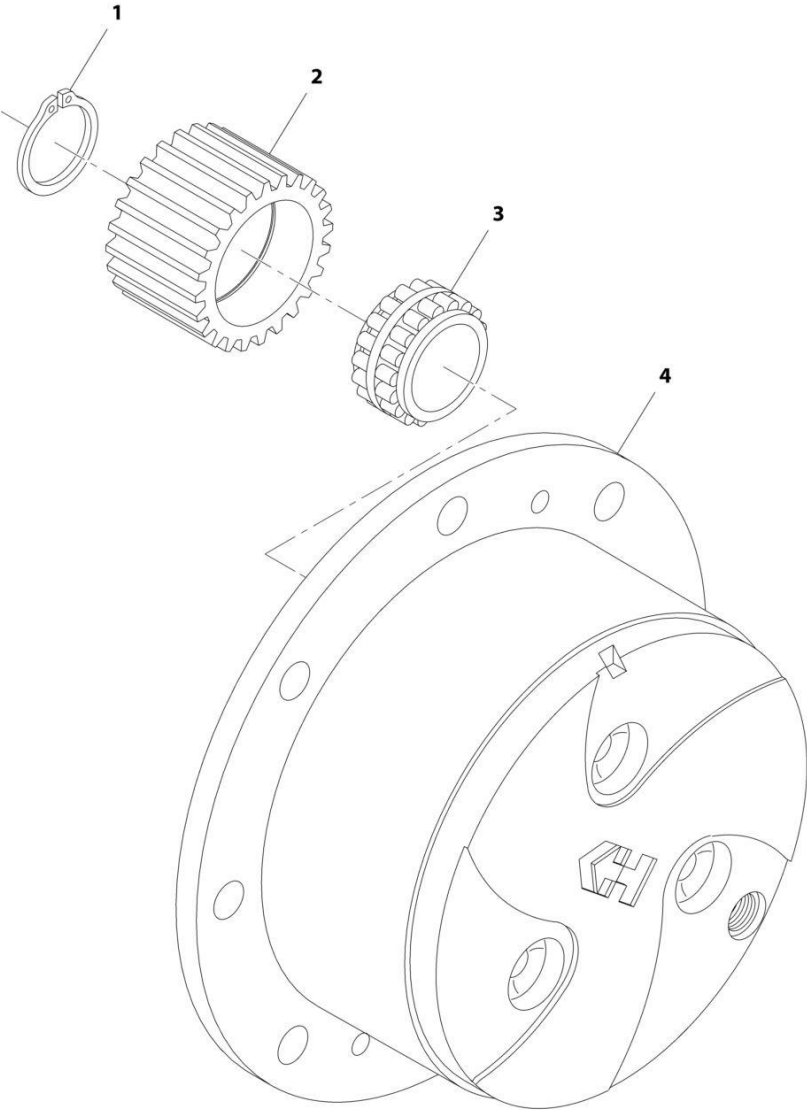
SECTION 5 - DRIVE TRAIN

FIGURE 5-35. REAR AXLE - RING GEAR SUPPORT KIT (SN 0160063541 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70024146	Ref	REAR AXLE RING GEAR SUPPORT KIT	
1	91514175	2	CIRCLIP	
2	70024147	2	RING GEAR	
3	91514177	2	SUPPORT, RING GEAR	

SECTION 5 - DRIVE TRAIN

FIGURE 5-36. REAR AXLE - PLANET GEAR CARRIER KIT (SN 0160063541 to Present)



ART_1001179607_9-E

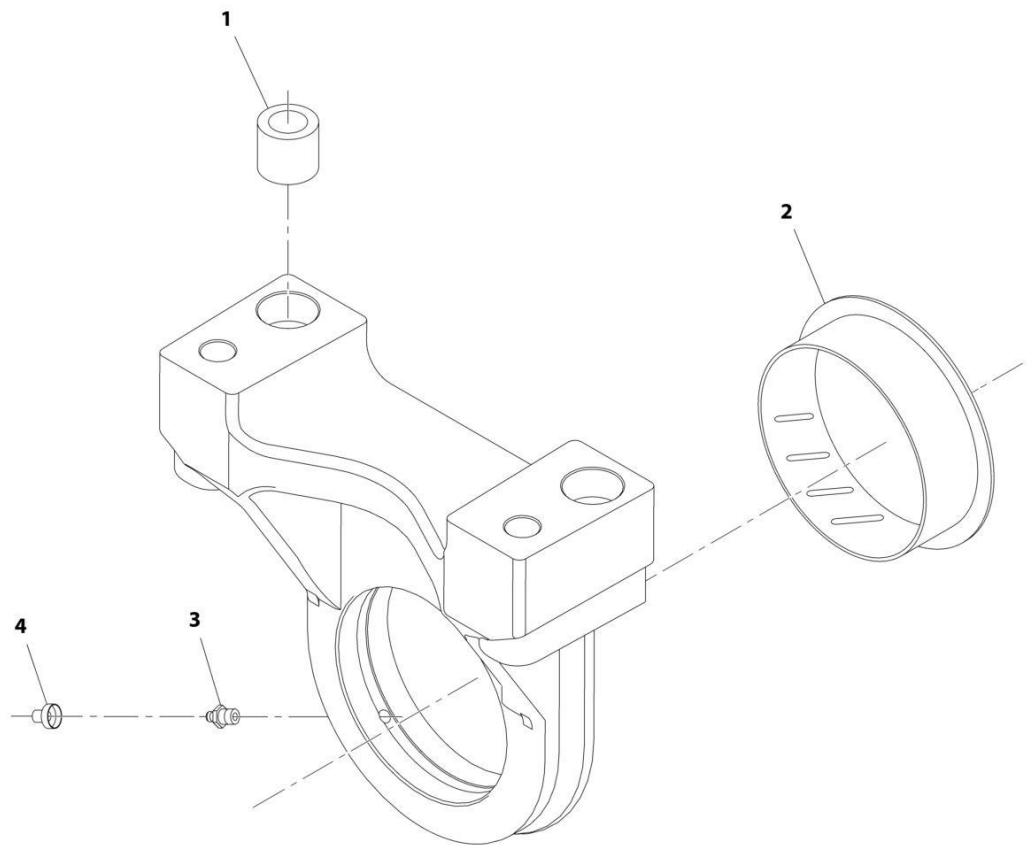
SECTION 5 - DRIVE TRAIN

FIGURE 5-36. REAR AXLE - PLANET GEAR CARRIER KIT (SN 0160063541 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7029743	Ref	REAR AXLE PLANET GEAR CARRIER KIT	
1	91514184	8	CIRCLIP	
2	91514185	8	GEAR, PLANET	
3	91514186	8	BEARING	
4	7029317	2	PLANET GEAR CARRIER	

SECTION 5 - DRIVE TRAIN

FIGURE 5-37. REAR AXLE - SUPPORT ASSEMBLY (SN 0160063541 to Present)



ART_1001179607_10-E

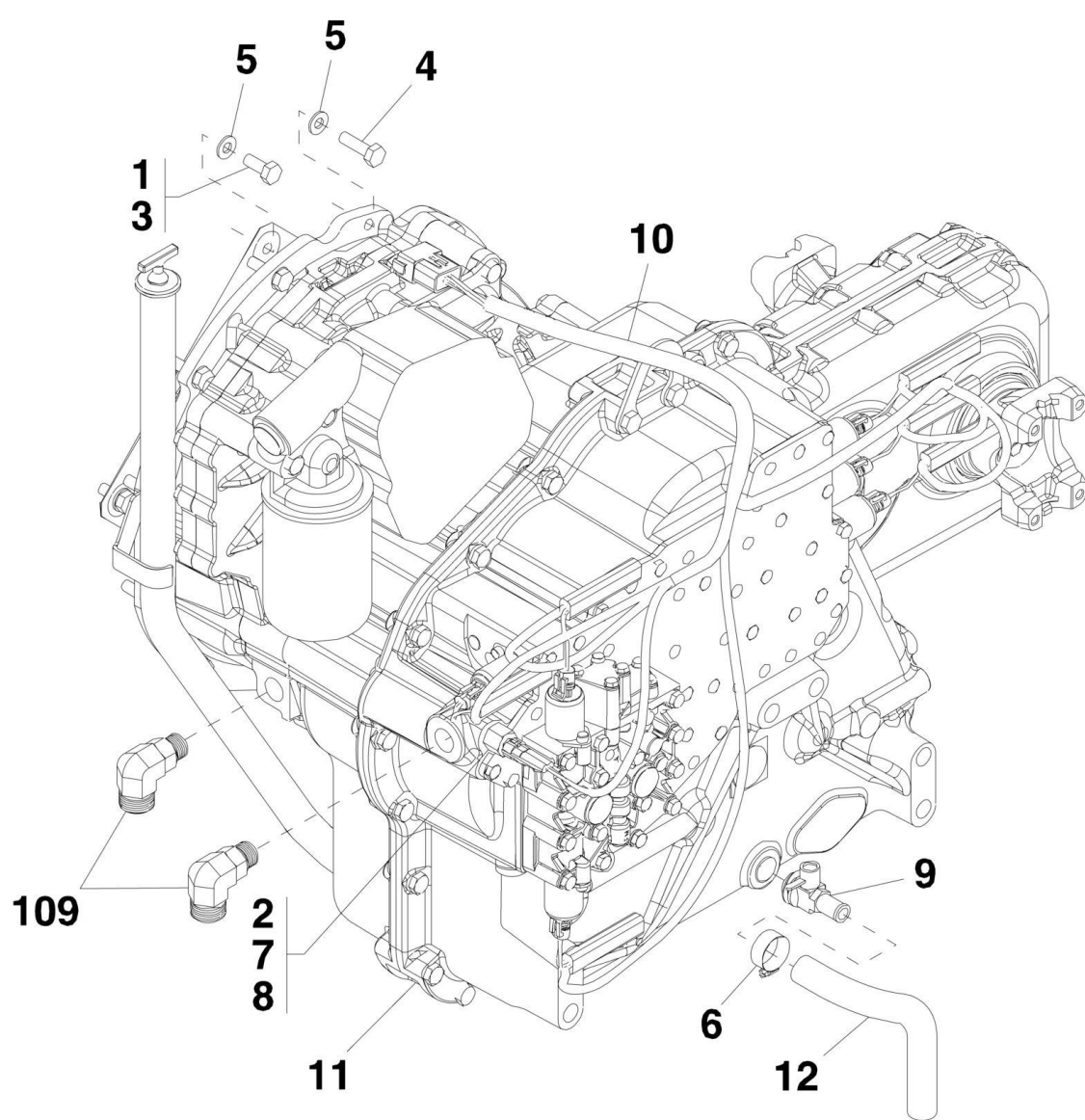
SECTION 5 - DRIVE TRAIN

FIGURE 5-37. REAR AXLE - SUPPORT ASSEMBLY (SN 0160063541 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7029292	Ref	REAR AXLE SUPPORT ASSEMBLY	
1	7029290	4	BUSHING	
2	91514090	2	BUSHING, THRUST	
3	91514099	2	FITTING, GREASE	
4	80204117	2	PLUG	

SECTION 5 - DRIVE TRAIN

FIGURE 5-38. TRANSMISSION



ART_31200728-5-38

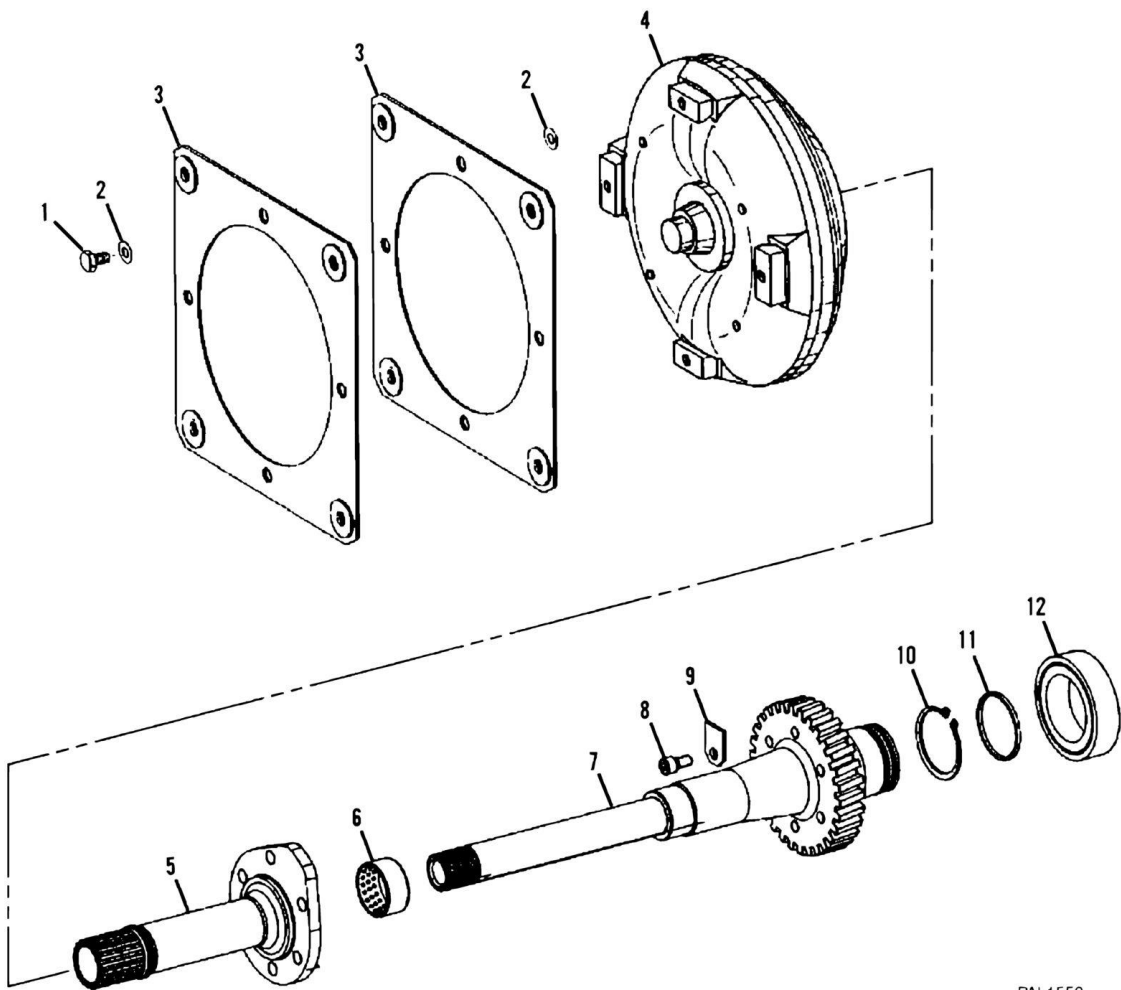
SECTION 5 - DRIVE TRAIN

FIGURE 5-38. TRANSMISSION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001115508	Ref	TRANSMISSION INSTALLATION, (not available to order, see items 1 thru 12 for service)	D
1	0100011	AR	LOCTITE 242	
2	0100020	AR	LOCTITE 567	
3	0701010	4	HEX HD CAPSCREW, M10X20, GR8.8, (torque to 35.2-52.87 Nm/26-39 lb-ft)	
4	0711015	12	HEX HD CAPSCREW, M10X55, GR10.9, (torque to 71.85-78.63 Nm/53-58 lb-ft)	
5	4812000	12	WASHER, 10mm	
6	8405007	1	GEAR CLAMP, 1.25	
7	91563091	1	ADAPTER, CONNECTOR	
8	91563121	1	OIL TEMPERATURE SWITCH	
9	1001097053	1	OIL DRAIN VALVE	
10		Ref	TRANSMISSION HARNESS, (See ELECTRICAL SECTION for Breakdown)	
11	1001125962	1	TRANSMISSION	
11		Ref	TORQUE CONVERTER AND INPUT, (See TRANSMISSION - CONVERTER AND INPUT for Breakdown)	
11		Ref	GEARBOX HOUSING, (See TRANSMISSION - GEARBOX HOUSING for Breakdown)	
11		Ref	FORWARD GEAR GROUP, (See TRANSMISSION - FORWARD GEAR GROUP for Breakdown)	
11		Ref	REVERSE GEAR GROUP, (See TRANSMISSION - REVERSE GEAR GROUP for Breakdown)	
11		Ref	1ST SHAFT GROUP, (See TRANSMISSION - 1ST SHAFT GROUP for Breakdown)	
11		Ref	2ND SHAFT GROUP, (See TRANSMISSION - 2ND SHAFT GROUP for Breakdown)	
11		Ref	3RD SHAFT GROUP, (See TRANSMISSION - 3RD SHAFT GROUP for Breakdown)	
11		Ref	4TH SHAFT GROUP, (See TRANSMISSION - 4TH SHAFT GROUP for Breakdown)	
11		Ref	POWER TAKE-OFF, (See TRANSMISSION - POWER TAKE OFF for Breakdown)	
11		Ref	CONTROL UNIT AND PRESSURE REGULATOR, (See TRANSMISSION - CONTROL UNIT AND PRESSURE REGULATOR for Breakdown)	
11		Ref	GEARSHIFT SYSTEM, (See TRANSMISSION - GEARSHIFT SYSTEM for Breakdown)	
11		Ref	OIL PUMP, FILTER AND DIPSTICK, (See TRANSMISSION - OIL PUMP, FILTER AND DIPSTICK for Breakdown)	
11		Ref	TRANSFER BOX, (See TRANSMISSION - TRANSFER BOX for Breakdown)	
12	1001109536	1	DRAIN HOSE	
109		Ref	ADAPTER, 90, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-39. TRANSMISSION - CONVERTER AND INPUT



PAL1550

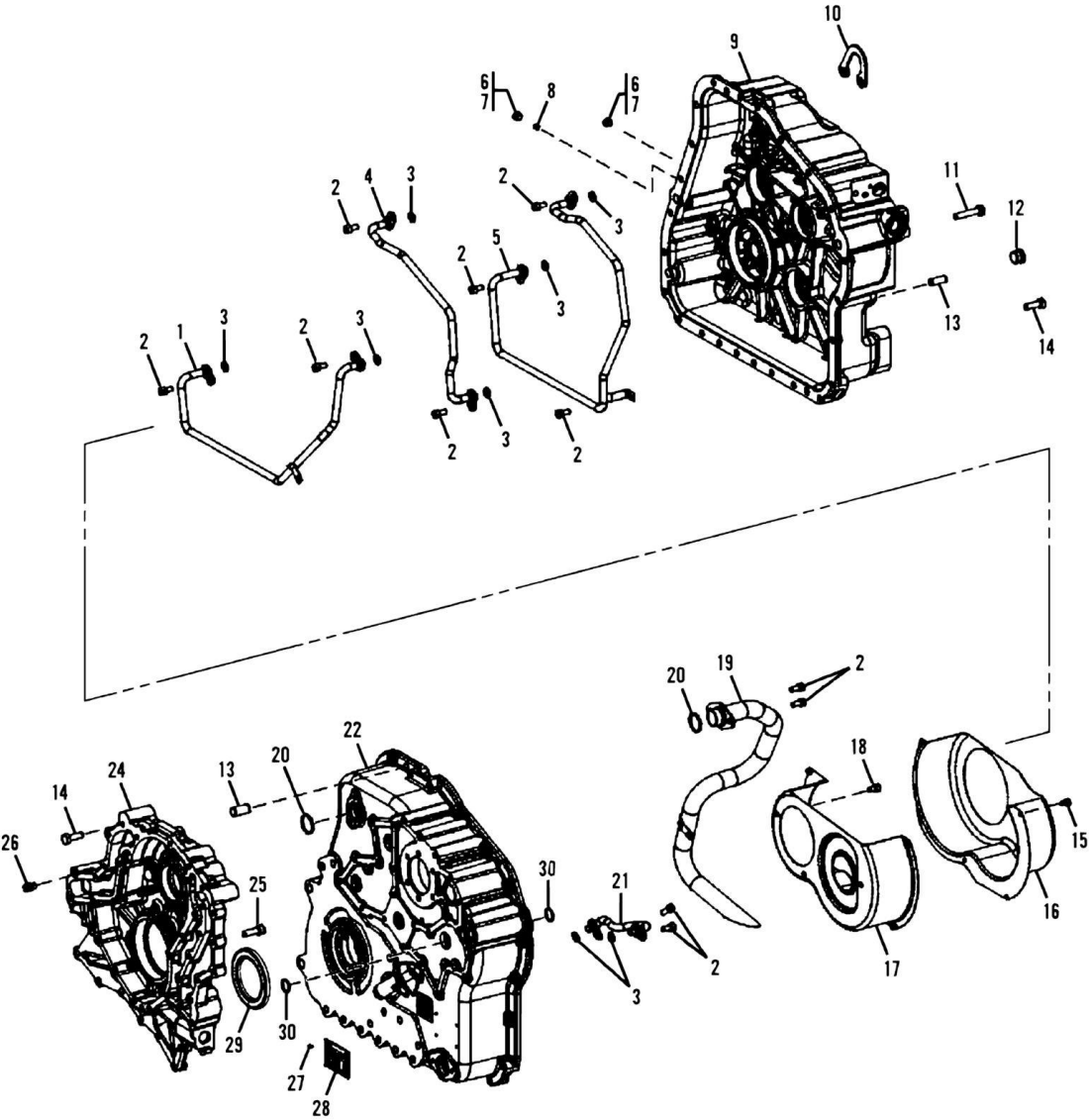
SECTION 5 - DRIVE TRAIN

FIGURE 5-39. TRANSMISSION - CONVERTER AND INPUT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026744	4	HEX HD CAPSCREW, M10X16	
2	7026745	8	WASHER	
3	1319229	2	DIAPHRAGM	
4	7026746	1	CONVERTER	
5	7026748	1	STATOR SHAFT	
6	1319558	1	BEARING BUSHING	
7	7026747	1	TURBINE SHAFT	
8	1319585	2	CAPSCREW, M8X16	
9	N.S.S.	1	SHACKLE	
10	80304405	1	RETAINING RING	
11	7026749	1	PISTON RING	
12	1319563	1	BALL BEARING	

SECTION 5 - DRIVE TRAIN

FIGURE 5-40. TRANSMISSION - GEARBOX HOUSING



PAL1572

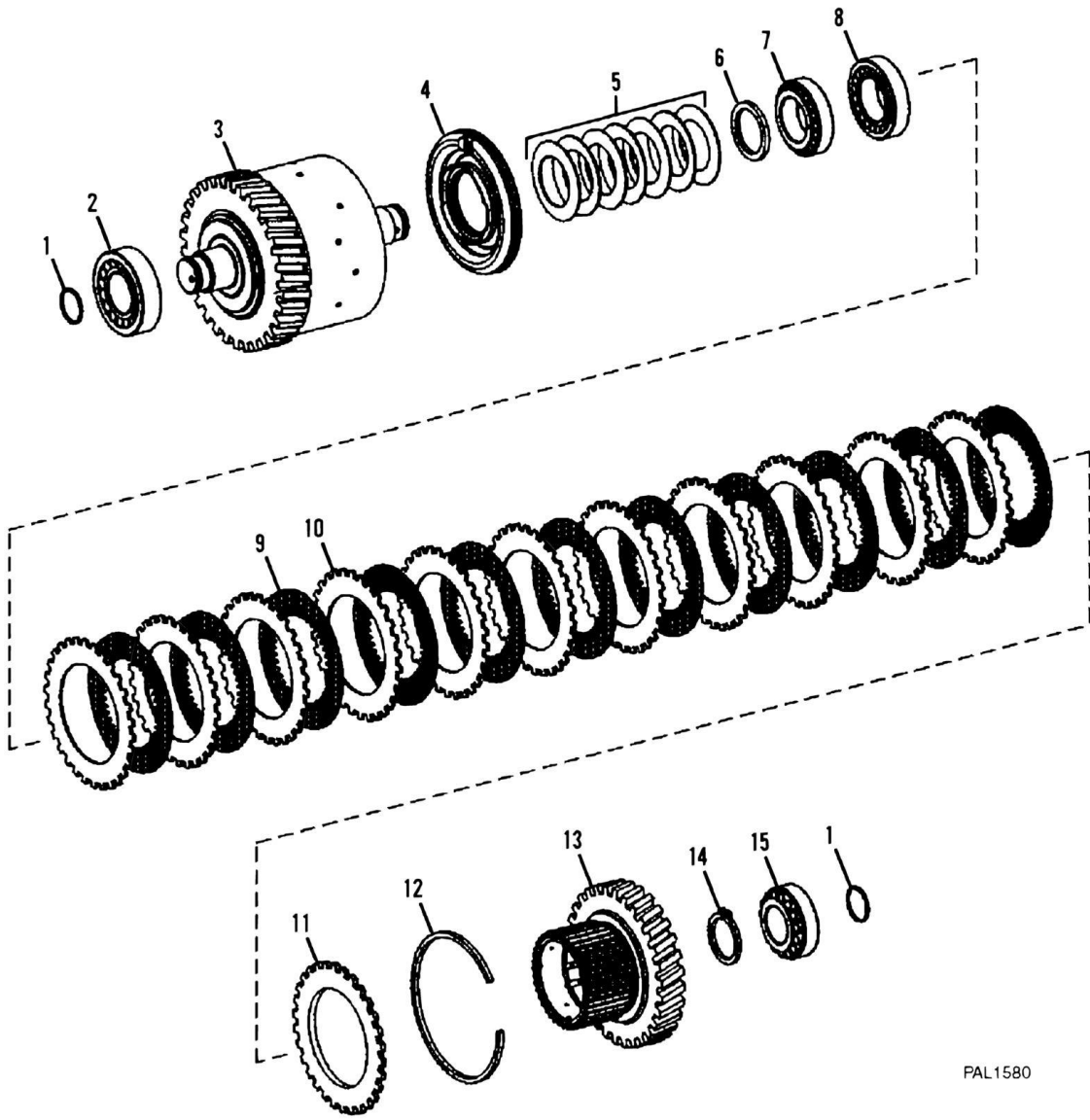
SECTION 5 - DRIVE TRAIN

FIGURE 5-40. TRANSMISSION - GEARBOX HOUSING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026751	1	PIPE	
2	1319585	11	HEX HD CAPSCREW, M8X16	
3	8036847	8	O-RING	
4	7026750	1	PIPE	
5	7026752	1	PIPE	
6	1319670	7	PLUG	
7	10731709	7	O-RING	
8	N.S.S.	1	ORIFICE	
9	N.S.S.	1	HOUSING	
10	1319590	1	BRACKET	
11	7026794	6	HEX HD CAPSCREW, M10X50	
12	70023404	1	PLUG	
13	1319571	4	PIN	
14	80304394	31	HEX HD CAPSCREW, M10X30	
15	1319646	5	HEX HD CAPSCREW	
16	7026756	1	SCREEN SHEET	
17	7026755	1	SCREEN SHEET	
18	N.S.S.	3	CAPSCREW, M8X12	
19	7026753	1	SUCTION TUBE	
20	1319581	2	O-RING	
21	7026754	1	PIPE	
22	N.S.S.	1	HOUSING	
24	70021920	1	HOUSING	
25	N.S.S.	6	CAPSCREW, M10X30	
26	10731744	1	BREATHING	
27	1319573	4	GROOVED STUD, 3X5	
28	N.S.S.	1	TYPE PLATE	
29	1319641	1	SHAFT SEAL	
30	7026792	2	O-RING	

SECTION 5 - DRIVE TRAIN

FIGURE 5-41. TRANSMISSION - FORWARD GEAR GROUP



PAL1580

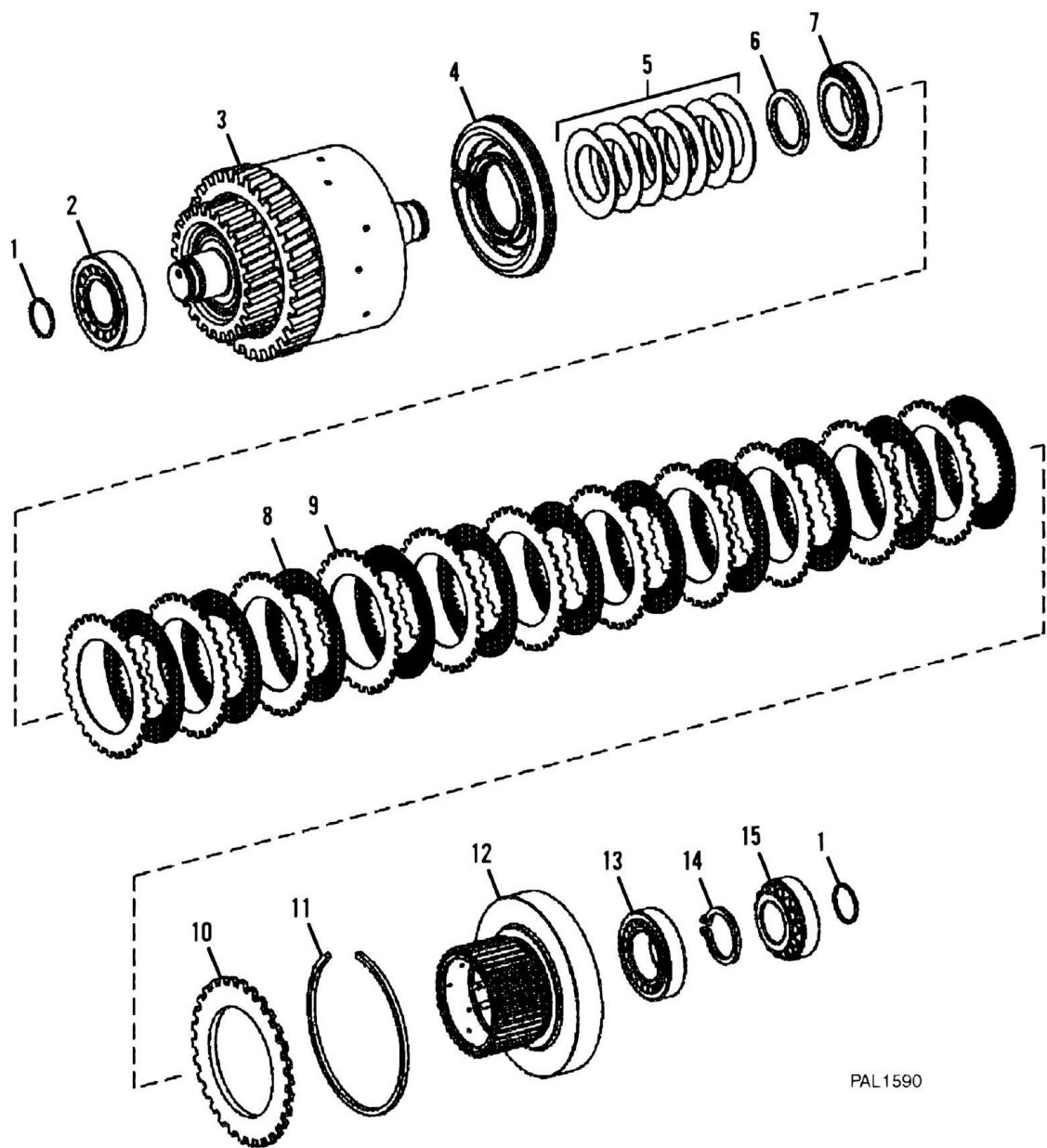
SECTION 5 - DRIVE TRAIN

FIGURE 5-41. TRANSMISSION - FORWARD GEAR GROUP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026761	2	PISTON RING	
2	1319615	1	ROLLER BEARING	
3	7026757	1	COUPLING	
4	70022075	1	PISTON, (die casted)	
4	1319593	1	O-RING, 52X3	
4	1319594	1	O-RING, 115X3	
5	1319595	7	CUP SPRING	
6	1319617	1	SUPPORT SHIM	
7	1319618	1	ROLLER BEARING	
8	1319620	1	ROLLER BEARING	
9	7026758	11	FRICTION DISC	
10	7026759	11	STATIC DISC	
11	7026760	1	END SHIM	
12	1319600	AR	SNAP RING, 4.0	
12	1319601	AR	SNAP RING, 3.5	
12	1319602	AR	SNAP RING, 3.0	
12	1319603	AR	SNAP RING, 2.5	
12	1319604	AR	SNAP RING, 2.0	
12	7029849	AR	SNAP RING, 3.25	
12	7029850	AR	SNAP RING, 3.75	
12	7029851	AR	SNAP RING, 2.25	
12	7029852	AR	SNAP RING, 2.75	
13	1319638	1	DISC CARRIER	
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	
14	1319628	AR	RETAINING RING, 2.50	
14	1319629	AR	RETAINING RING, 2.40	
14	1319630	AR	RETAINING RING, 2.30	
14	1319631	AR	RETAINING RING, 2.20	
14	1319632	AR	RETAINING RING, 2.10	
15	1319636	1	ROLLER BEARING	

SECTION 5 - DRIVE TRAIN

FIGURE 5-42. TRANSMISSION - REVERSE GEAR GROUP



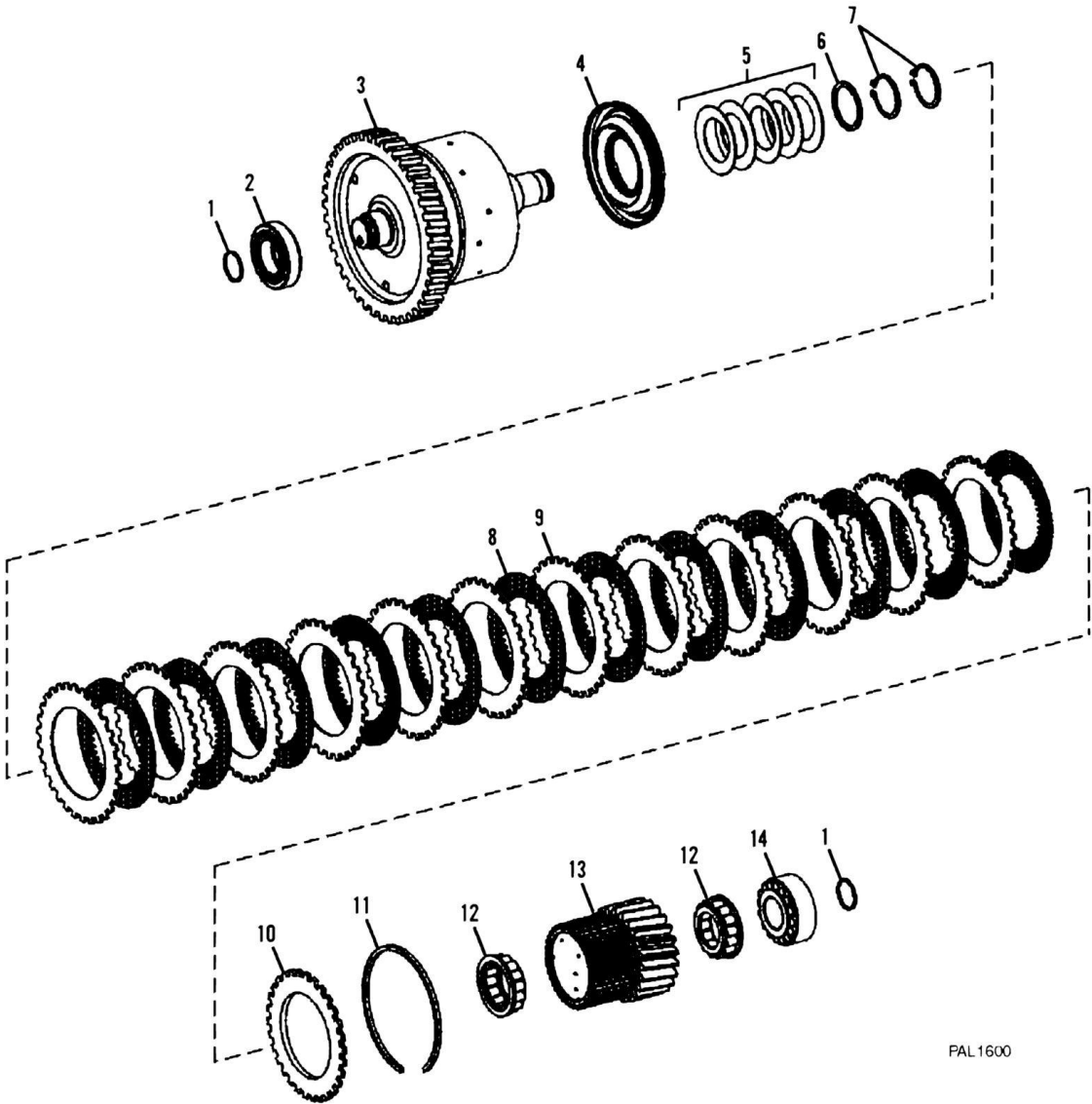
SECTION 5 - DRIVE TRAIN

FIGURE 5-42. TRANSMISSION - REVERSE GEAR GROUP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026761	2	PISTON RING	
2	1319615	1	ROLLER BEARING	
3	7026762	1	COUPLING	
4	70022075	1	PISTON, (die casted)	
4	1319593	1	O-RING, 52X3	
4	1319594	1	O-RING, 115X3	
5	1319595	7	CUP SPRING	
6	1319617	1	SUPPORT SHIM	
7	1319618	1	ROLLER BEARING	
8	7026758	11	FRICTION DISC	
9	7026759	11	STATIC DISC	
10	7026760	1	END SHIM	
11	1319600	AR	SNAP RING, 4.0	
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	
11	7029849	AR	SNAP RING, 3.25	
11	7029850	AR	SNAP RING, 3.75	
11	7029851	AR	SNAP RING, 2.25	
11	7029852	AR	SNAP RING, 2.75	
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	
14	1319628	AR	RETAINING RING, 2.50	
14	1319629	AR	RETAINING RING, 2.40	
14	1319630	AR	RETAINING RING, 2.30	
14	1319631	AR	RETAINING RING, 2.20	
14	1319632	AR	RETAINING RING, 2.10	
15	1319636	1	ROLLER BEARING	

SECTION 5 - DRIVE TRAIN

FIGURE 5-43. TRANSMISSION - 1ST SHAFT GROUP



PAL1600

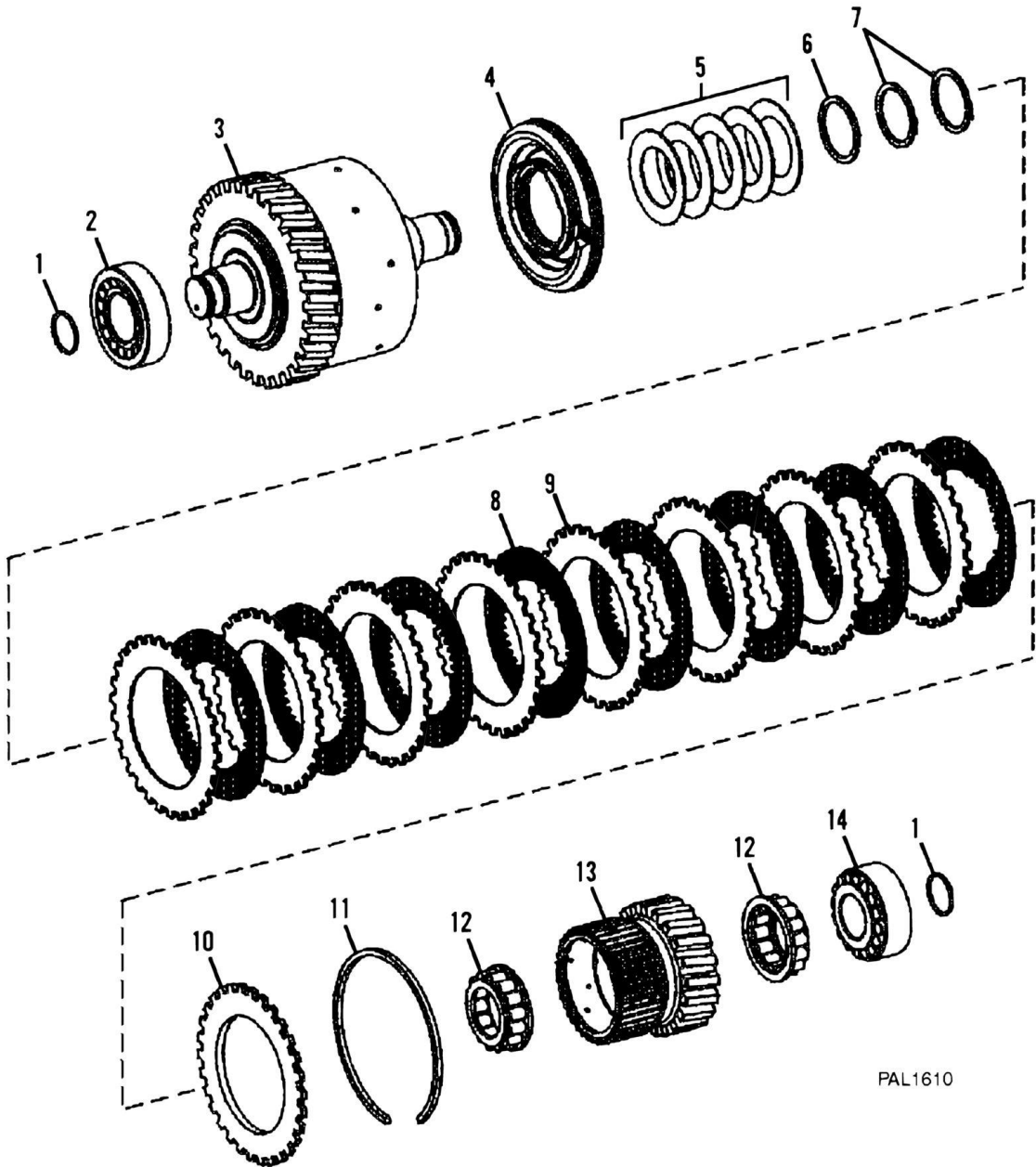
SECTION 5 - DRIVE TRAIN

FIGURE 5-43. TRANSMISSION - 1ST SHAFT GROUP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026761	2	PISTON RING	
2	1319608	1	ROLLER BEARING	
3	1319591	1	COUPLING	
4	70022075	1	PISTON, (die casted)	
4	1319593	1	O-RING, 52X3	
4	1319594	1	O-RING, 115X3	
5	1319595	5	CUP SPRING	
6	1319596	1	SHIM	
7	10731845	2	RETAINING RING	
8	7026758	12	FRICTION DISC	
9	7026759	12	STATIC DISC	
10	7026760	1	END SHIM	
11	1319600	AR	SNAP RING, 4.0	
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	
11	7029849	AR	SNAP RING, 3.25	
11	7029850	AR	SNAP RING, 3.75	
11	7029851	AR	SNAP RING, 2.25	
11	7029852	AR	SNAP RING, 2.75	
12	1319606	2	ROLLER CAGE	
13	1319607	1	DISC CARRIER	
14	7029532	1	ROLLER BEARING, (inner ring)	
14	7029533	1	ROLLER BEARING, (outer ring)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-44. TRANSMISSION - 2ND SHAFT GROUP



PAL1610

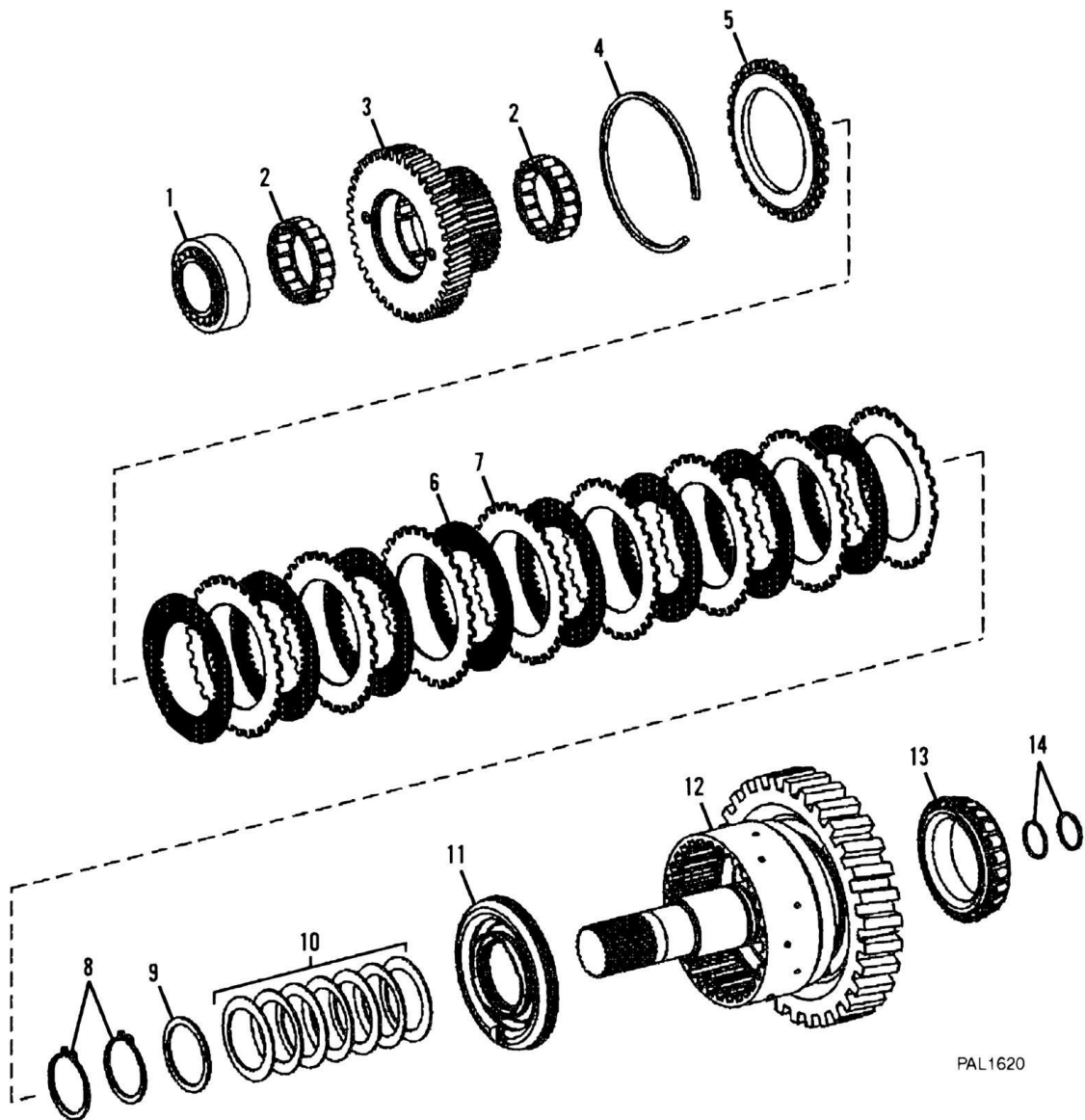
SECTION 5 - DRIVE TRAIN

FIGURE 5-44. TRANSMISSION - 2ND SHAFT GROUP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026761	2	PISTON RING	
2	1319615	1	ROLLER BEARING	
3	7026763	1	COUPLING	
4	70022075	1	PISTON, (die casted)	
4	1319593	1	O-RING, 52X3	
4	1319594	1	O-RING, 115X3	
5	1319595	5	CUP SPRING	
6	1319596	1	SHIM	
7	10731845	2	RETAINING RING	
8	7026758	8	FRICTION DISC	
9	7026759	8	STATIC DISC	
10	7026760	1	END SHIM	
11	1319600	AR	SNAP RING, 4.0	
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	
11	7029849	AR	SNAP RING, 3.25	
11	7029850	AR	SNAP RING, 3.75	
11	7029851	AR	SNAP RING, 2.25	
11	7029852	AR	SNAP RING, 2.75	
12	1319606	2	ROLLER CAGE	
13	1319614	1	DISC CARRIER	
14	7029532	1	ROLLER BEARING, (inner ring)	
14	7029533	1	ROLLER BEARING, (outer ring)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-45. TRANSMISSION - 3RD SHAFT GROUP



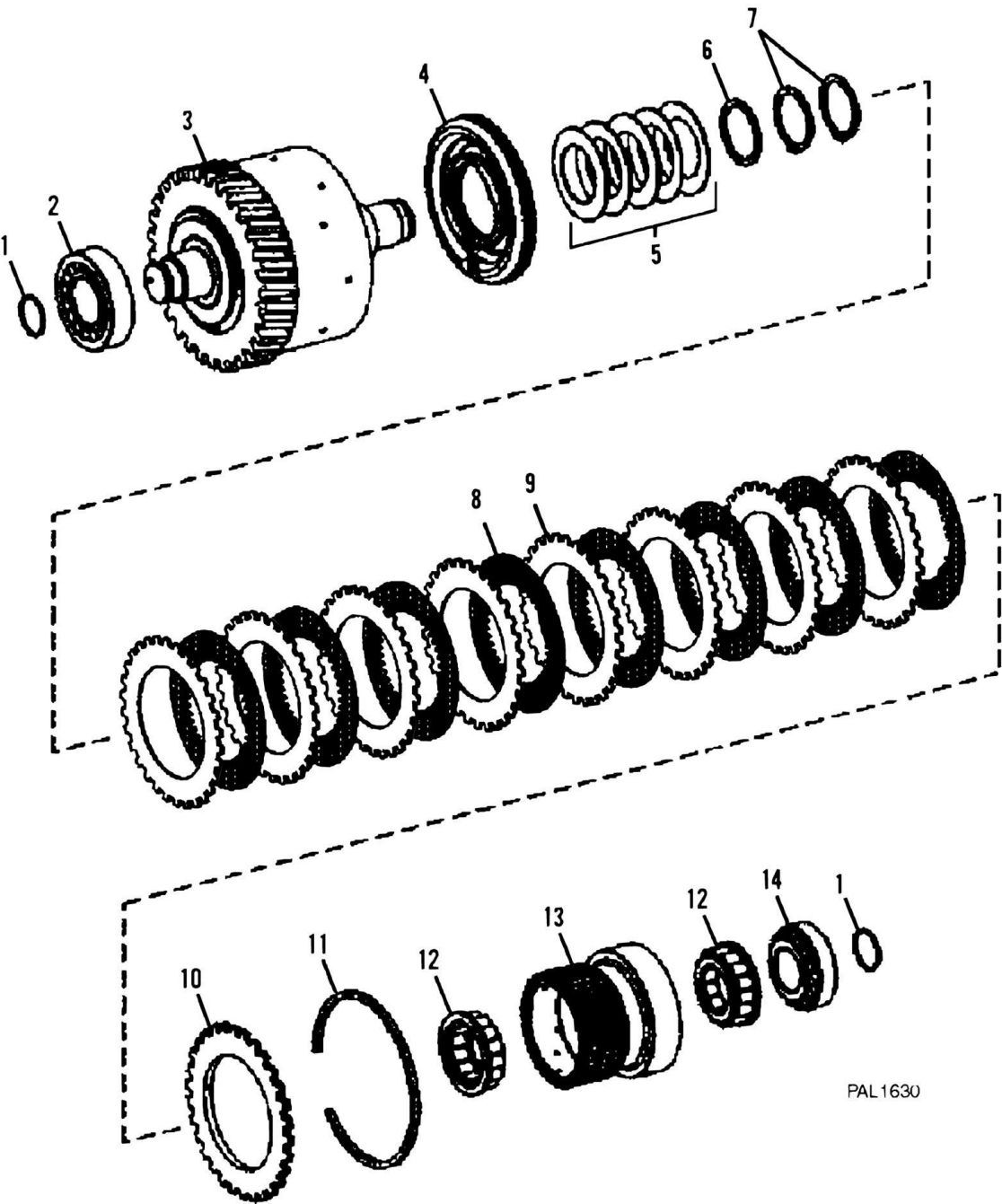
SECTION 5 - DRIVE TRAIN

FIGURE 5-45. TRANSMISSION - 3RD SHAFT GROUP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	N.S.S.	1	ROLLER BEARING ASSY	
1	70021268	1	BEARING OUTER RING	
1	70021269	1	BEARING INNER RING	
2	N.S.S.	1	ROLLER BEARING ASSY	
2	70021227	1	RING	
2	70021228	1	ROLLER CAGE	
3	1319619	1	DISC CARRIER	
4	1319600	AR	SNAP RING, 4.0	
4	1319601	AR	SNAP RING, 3.5	
4	1319602	AR	SNAP RING, 3.0	
4	1319603	AR	SNAP RING, 2.5	
4	1319604	AR	SNAP RING, 2.0	
4	7029849	AR	SNAP RING, 3.25	
4	7029850	AR	SNAP RING, 3.75	
4	7029851	AR	SNAP RING, 2.25	
4	7029852	AR	SNAP RING, 2.75	
5	7026760	1	END SHIM	
6	7026758	8	FRICTION DISC	
7	7026759	8	STATIC DISC	
8	80304227	2	RETAINING RING	
9	7026766	1	WASHER	
10	7026765	7	CUP SPRING	
11	70022075	1	PISTON, (die casted)	
11	1319593	1	O-RING, 52X3	
11	1319594	1	O-RING, 115X3	
12	7026764	1	COUPLING	
13	7026769	1	ROLLER BEARING	
14	7026761	2	PISTON BEARING	

SECTION 5 - DRIVE TRAIN

FIGURE 5-46. TRANSMISSION - 4TH SHAFT GROUP



PAL1630

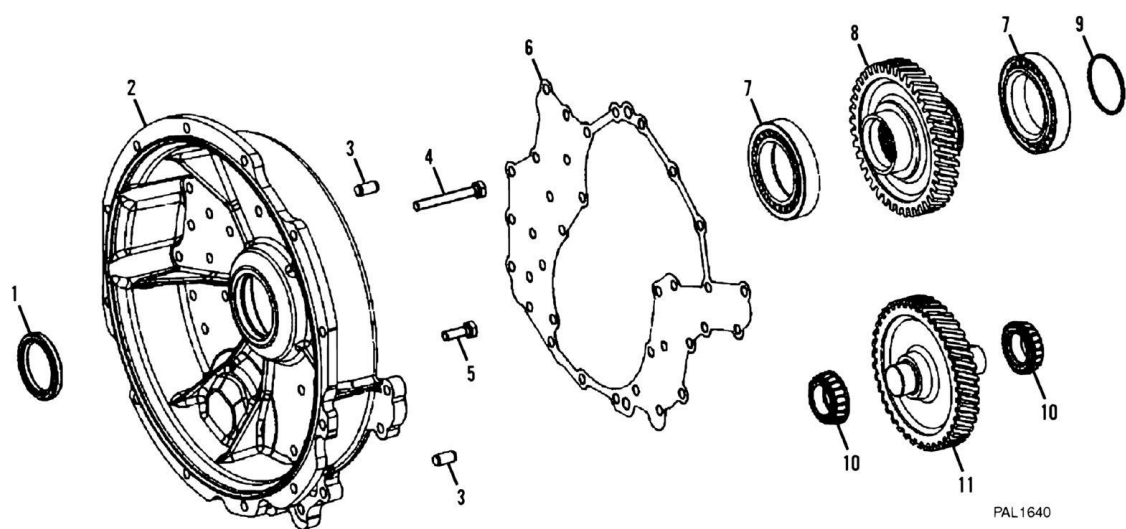
SECTION 5 - DRIVE TRAIN

FIGURE 5-46. TRANSMISSION - 4TH SHAFT GROUP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026761	2	PISTON RING	
2	1319615	1	ROLLER BEARING	
3	7026770	1	COUPLING	
4	70022075	1	PISTON, (die casted)	
4	1319593	1	O-RING, 52X3	
4	1319594	1	O-RING, 115X3	
5	1319595	5	CUP SPRING	
6	1319596	1	SHIM	
7	10731845	2	RETAINING RING	
8	7026758	8	FRICTION DISC	
9	7026759	8	STATIC DISC	
10	7026760	1	END SHIM	
11	1319600	AR	SNAP RING, 4.0	
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	
11	7029849	AR	SNAP RING, 3.25	
11	7029850	AR	SNAP RING, 3.75	
11	7029851	AR	SNAP RING, 2.25	
11	7029852	AR	SNAP RING, 2.75	
12	1319606	2	ROLLER CAGE	
13	1319635	1	DISC CARRIER	
14	1319636	1	ROLLER BEARING	

SECTION 5 - DRIVE TRAIN

FIGURE 5-47. TRANSMISSION - POWER TAKE-OFF



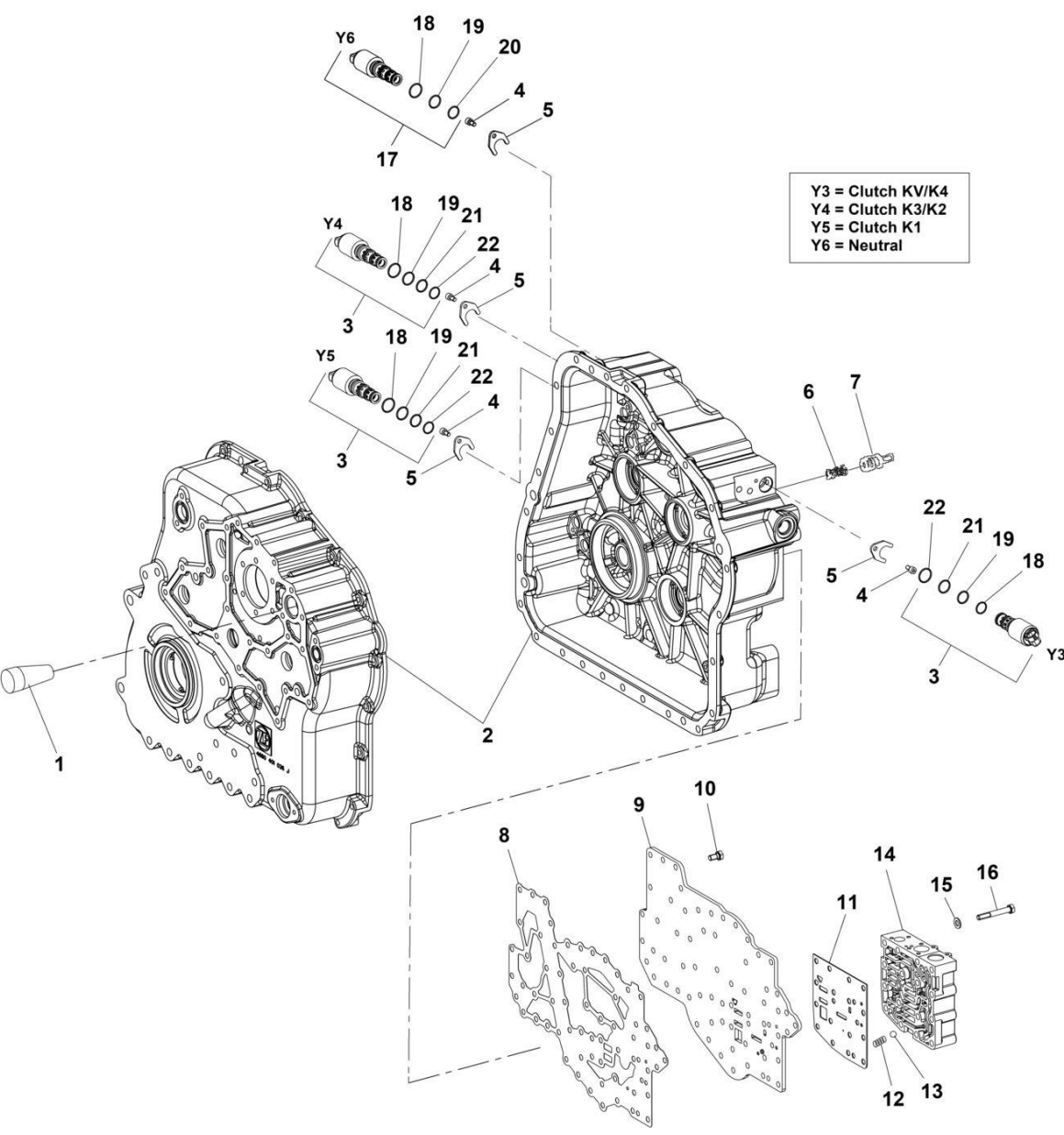
SECTION 5 - DRIVE TRAIN

FIGURE 5-47. TRANSMISSION - POWER TAKE-OFF

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319576	1	SHAFT SEAL	
2	70021526	1	HOUSING	
3	1319571	2	CYLINDRICAL PIN	
4	7026775	15	HEX HD CAPSCREW	
5	80304394	21	HEX HD CAPSCREW	
6	7026774	1	GASKET	
7	7026769	2	ROLLER BEARING	
8	7026771	1	SHAFT	
9	7026772	1	PISTON RING	
10	1319608	2	ROLLER BEARING	
11	7026773	1	SHAFT	

SECTION 5 - DRIVE TRAIN

FIGURE 5-48. TRANSMISSION - CONTROL UNIT AND PRESSURE REGULATOR



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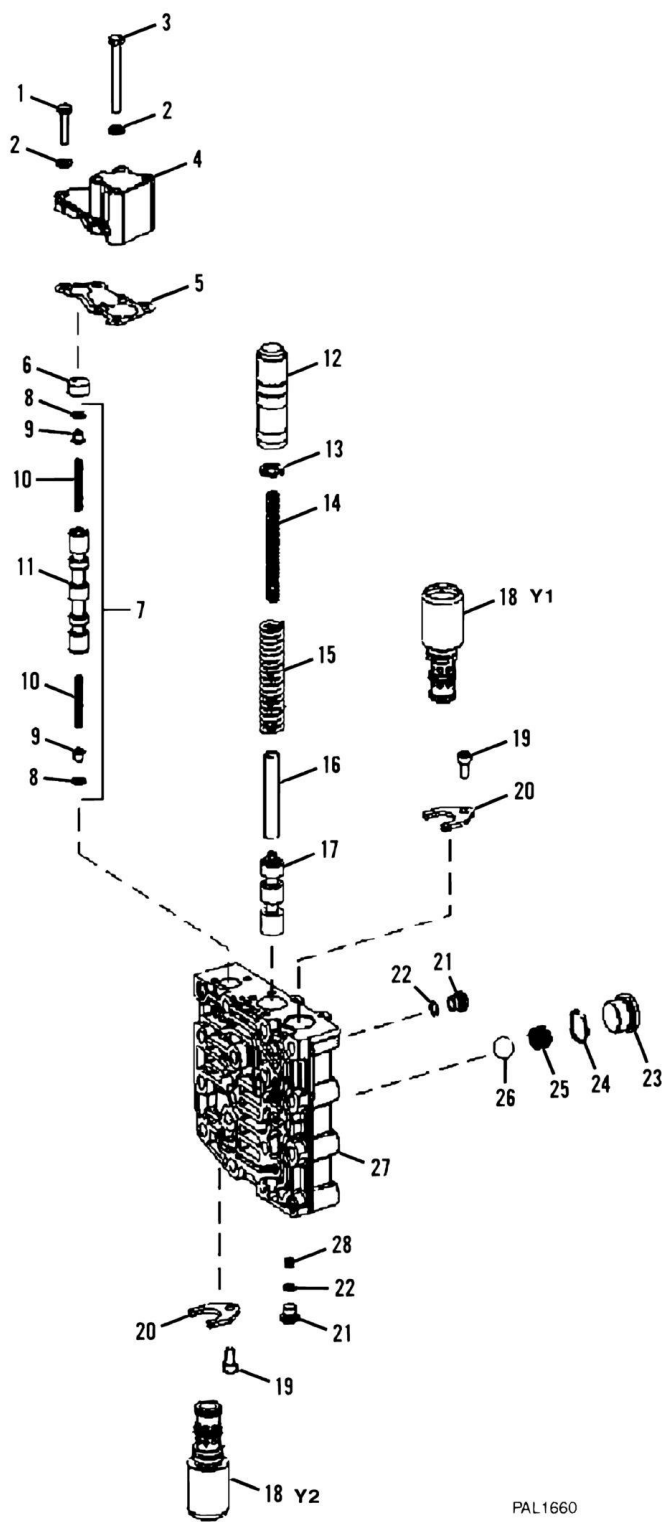
SECTION 5 - DRIVE TRAIN

FIGURE 5-48. TRANSMISSION - CONTROL UNIT AND PRESSURE REGULATOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7026782	1	VALVE	
2		Ref	HOUSING, (See TRANSMISSION - GEARBOX HOUSING for Breakdown)	
3	8036529	3	SOLENOID VALVE	
4	N.S.S.	4	CAPSCREW, M6X12	
5	7029267	4	BRACKET	
6	7026784	1	COMPRESSED SPRING	
7	7026783	1	PISTON	
8	7026776	1	GASKET	
9	7026777	1	PLATE	
10	7026780	46	HEX HD CAPSCREW	
11	7026779	1	INTERMEDIATE SHEET	
12	7026778	1	COMPRESSED SPRING	
13	10731761	1	BALL	
14		Ref	VALVE HOUSING, (See TRANSMISSION - GEARSHIFT SYSTEM for Breakdown)	
15	10732095	16	WASHER	
16	7026781	16	HEX HD CAPSCREW	
17	8036528	1	SOLENOID VALVE	
18	70029540	4	O-RING	
19	70029541	4	O-RING	
20	70029530	1	O-RING	
21	70029542	3	O-RING	
22	70029543	3	O-RING	

SECTION 5 - DRIVE TRAIN

FIGURE 5-49. TRANSMISSION - GEARSHIFT SYSTEM



PAL1660

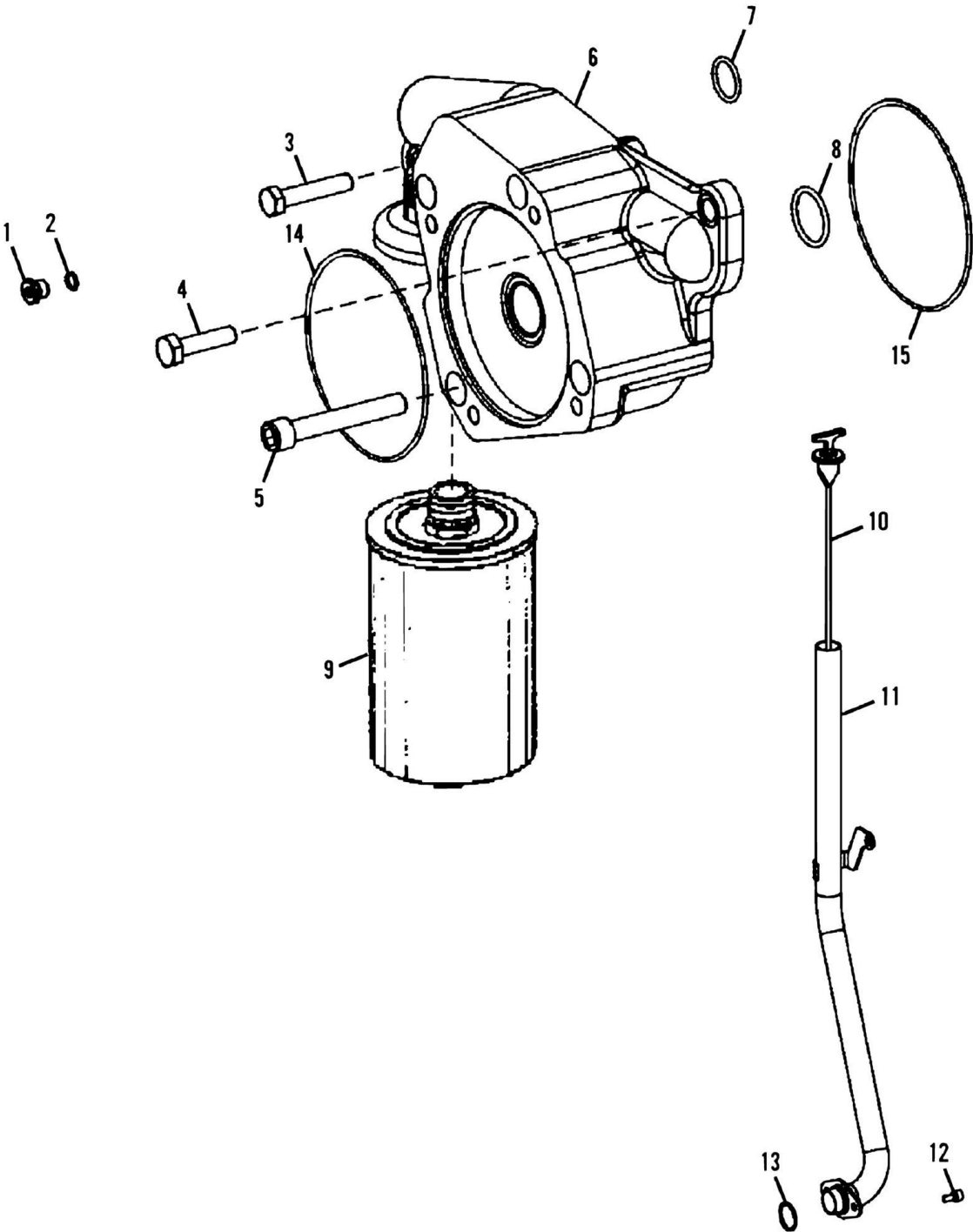
SECTION 5 - DRIVE TRAIN

FIGURE 5-49. TRANSMISSION - GEARSHIFT SYSTEM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319693	2	HEX HD CAPSCREW, M6X25	
2	1319661	6	WASHER	
3	1321265	4	HEX HD CAPSCREW, M6X55	
4	7026789	1	COVER	
5	7026788	1	GASKET	
6	7026787	1	SPACER	
7	1319694	1	VALVE ASSY, (includes items 8 thru 11)	
8	N.S.S.	2	SNAP RING	
9	N.S.S.	2	SPRING SLEEVE	
10	N.S.S.	2	COMPRESSED SPRING	
11	N.S.S.	1	PISTON	
12	7026790	1	PISTON	
13	1319685	AR	WASHER, 2.0	
13	1319686	AR	WASHER, 1.0	
13	1319687	AR	WASHER, 0.5	
13	1319688	AR	WASHER, 0.3	
13	1319689	AR	WASHER, 0.2	
14	1319684	1	COMPRESSED SPRING	
15	1319683	1	COMPRESSED SPRING	
16	7026786	1	SLEEVE	
17	7026785	1	CONTROL PISTON	
18	8036528	2	SOLENOID VALVE	
19	N.S.S.	2	HEX HD CAPSCREW	
20	N.S.S.	2	BRACKET	
21	1319670	2	PLUG, M10	
22	10731709	2	O-RING	
23	N.S.S.	2	PLUG, M24	
24	70000656	2	O-RING	
25	10732072	2	COMPRESSED SPRING	
26	10732071	2	BALL	
27	70022790	1	VALVE HOUSING	
28	1319652	1	ORIFICE	

SECTION 5 - DRIVE TRAIN

FIGURE 5-50. TRANSMISSION - OIL PUMP, FILTER AND DIPSTICK



PAL1672

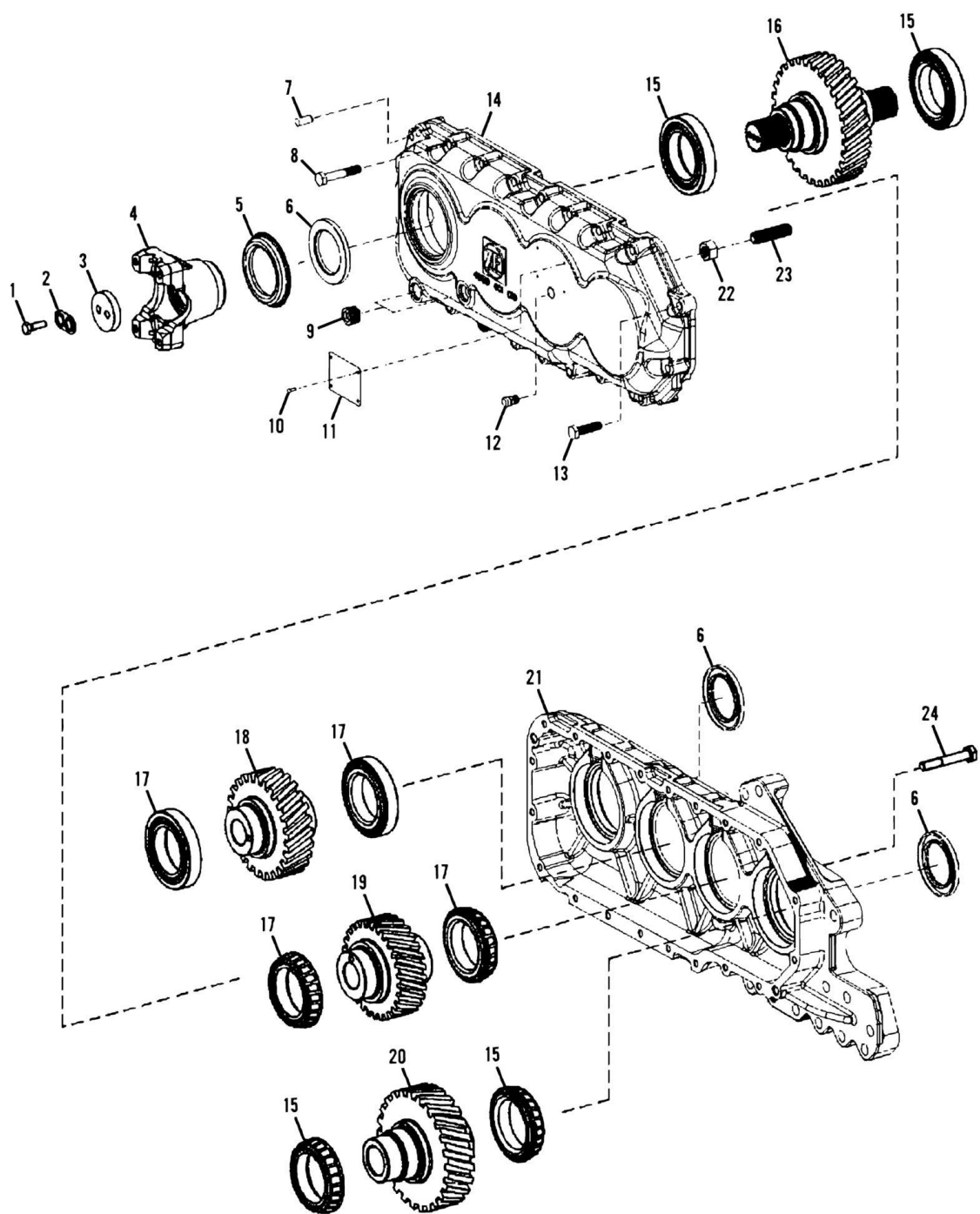
SECTION 5 - DRIVE TRAIN

FIGURE 5-50. TRANSMISSION - OIL PUMP, FILTER AND DIPSTICK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1319670	2	PLUG, M10X1	
2	10731709	2	O-RING	
3	7026794	1	HEX HD CAPSCREW, M10X50	
4	80304394	1	HEX HD CAPSCREW, M10X30	
5	7026793	4	CAPSCREW, M12X80	
6	7026791	1	PUMP	
6	7029417	1	O-RING, (located between two halves of oil pump)	
7	7026792	3	O-RING	
8	1319719	1	O-RING	
9	1319726	1	FILTER	
10	8841322	1	DIPSTICK	
11	1001095744	1	DIPSTICK TUBE	
12	1319585	2	CAPSCREW, M8X16	
13	1319581	1	O-RING	
14	N.S.S.	1	O-RING	
15	8036250	1	O-RING (located between oil pump and transmission)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-51. TRANSMISSION - TRANSFER BOX



PAL1681

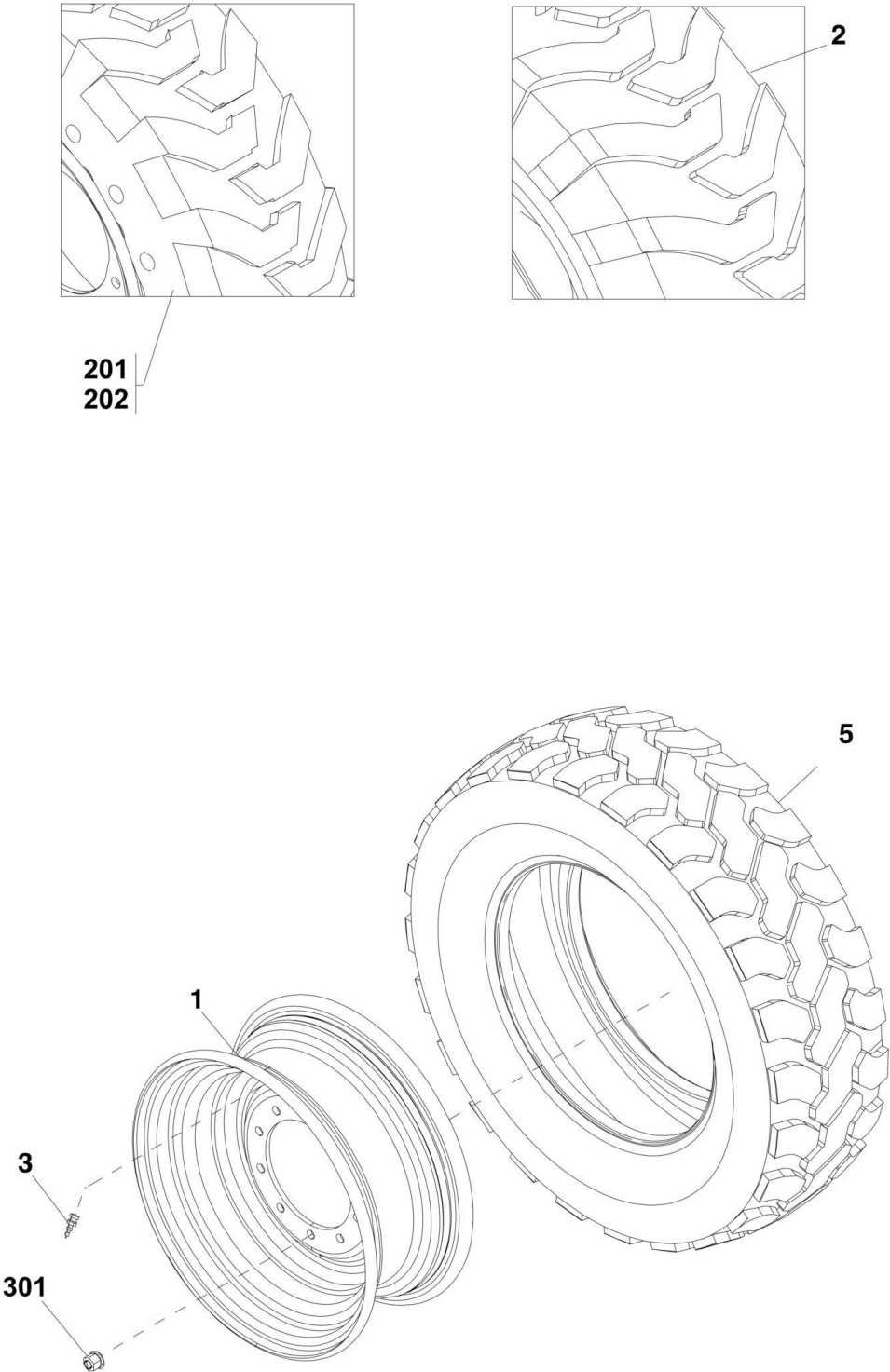
SECTION 5 - DRIVE TRAIN

FIGURE 5-51. TRANSMISSION - TRANSFER BOX

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70023502	1	TRANSFER BOX, (includes all items)	
1	10731959	4	HEX HD CAPSCREW, (two per side)	
2	1319649	2	TAB WASHER, (one per side)	
3	1319648	2	WASHER, (one per side)	
4	7027273	2	FLANGE, (one per side)	
5	1319647	2	SCREEN SHEET, (one per side)	
6	1320755	3	SHAFT SEAL	
7	1319571	2	CYLINDRICAL PIN	
8	70023801	22	HEX HD CAPSCREW, M10X50	
9	1319578	2	PLUG	
10	1319573	4	STUD, 3X5	
11	N.S.S.	1	PLATE	
12	1319436	1	BREATHER	
13	70023800	1	HEX HD CAPSCREW, M10X30	
14	70023475	1	HOUSING	
15	7026769	4	ROLLER BEARING	
16	7027271	1	OUTPUT SHAFT	
17	N.S.S.	4	TAPERED ROLLER BEARING	
17	1320748	1	CUP	
17	1320754	1	CONE	
18	7027272	1	IDLER GEAR	
19	7027270	1	IDLER GEAR	
20	N.S.S.	1	INPUT SHAFT	
20	70020493	1	INPUT GEAR	
20	70020036	1	SEAL	
21	70023474	1	HOUSING	
22	7026578	1	HEX NUT, M16	
23	7026577	1	SLEEVE	
24	70023476	1	HEX BOLT, M10X65	

SECTION 5 - DRIVE TRAIN

FIGURE 5-52. WHEEL ASSEMBLY



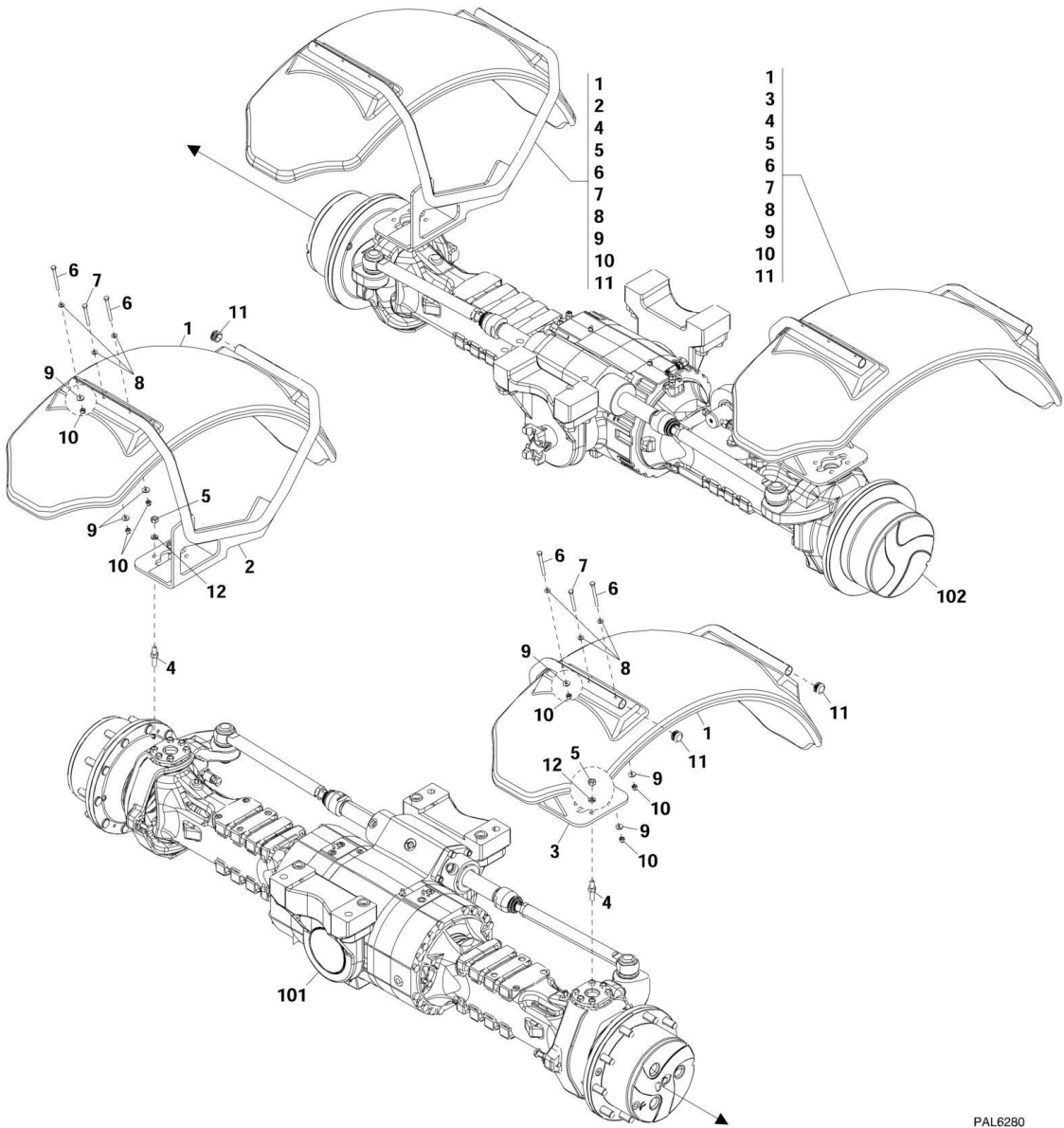
SECTION 5 - DRIVE TRAIN

FIGURE 5-52. WHEEL ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	4520481	1	TIRE SET, 14.00-24 BIAS, G-2	A
	91355034	2	RH TIRE AND WHEEL ASSY, 14.00-24 BIAS, G-2, (includes items 1 thru 3)	C
	91355035	2	LH TIRE AND WHEEL ASSY, 14.00-24 BIAS, G-2, (includes items 1 thru 3)	C
	4520482	1	TIRE SET, 14.00-24 BIAS, G-2, FOAM FILLED	B
	91355037	2	RH TIRE AND WHEEL ASSY, 14.00-24 BIAS, G-2, FOAM FILLED, (includes items 1 thru 4)	E
	91355038	2	LH TIRE AND WHEEL ASSY, 14.00-24 BIAS, G-2, FOAM FILLED, (includes items 1 thru 4)	E
	1001152430	1	TIRE SET, 17.50-25, 16 PLY	A
	1001152415	2	RH TIRE AND WHEEL ASSY, 17.50-25, 16 PLY, (includes items 1 thru 3)	A
	1001152416	2	LH TIRE AND WHEEL ASSY, 17.50-25, 16 PLY, (includes items 1 thru 3)	A
	4520519	1	TIRE SET, 17.50-25 BIAS, FOAM FILLED, G-2	A
	91565040	2	RH TIRE AND WHEEL ASSY, 17.50-25 BIAS, FOAM FILLED, 785 lb, G-2(includes items 1 thru 4)	E
	91565039	2	LH TIRE AND WHEEL ASSY, 17.50-25 BIAS, FOAM FILLED, 785 lb, G-2(includes items 1 thru 4)	E
	1001121109	1	TIRE SET, 400/75-28, 16 PLY	B
	1001121103	4	TIRE AND RIM ASSY, 400/75-28, 16PLY, (includes items 1, 3 & 5)	B
	1001125410	1	TIRE SET, 400/75-28, 16 PLY, FOAM FILLED	B
	1001121105	4	TIRE AND RIM ASSY, 400/75-28, 16PLY, FOAM FILLED, 464 lb,(includes items 1,3 & 5)	C
1	91473206	1	WHEEL, 24X9.00, 0.218 OFFSET	
1	91563250	1	WHEEL, 25X13, 1.687 OFFSET	
1	1001120178	1	WHEEL, 28X12, 0.75 OFFSET, (if equipped with Firestone 400/75-28)	
2	91043084	1	TIRE, 14.00-24 LOADER, 12 PLY, DIRECTIONAL, G-2	
2	4520527	1	TIRE, 17.50-25 LOADER, 12 PLY, DIRECTIONAL, L-2	
2	8780039	1	TIRE, 17.50-25 LOADER, 16 PLY, DIRECTIONAL, L-2	
3	91083385	1	VALVE STEM	
3	8786514	1	VALVE STEM, (if equipped with Firestone 400/75-28)	
4	8526203	1	BALLAST FLAT PROOFING FOAM FILL, (not shown)	
5	1001120179	1	TIRE, 400/75-28, 16PLY	
	1001151108	1	TIRE SET, SOLIDEAL, 14X24, SOLID, (includes items 201 & 202)	A
201	1001151101	2	LH TIRE, SOLIDEAL, 14X24, 0.219 OFFSET	A
202	1001151102	2	RH TIRE, SOLIDEAL, 14X24, 0.219 OFFSET	A
301		Ref	WHEEL NUT, (See DRIVETRAIN COMPONENTS for Breakdown)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-53. FENDER INSTALLATION (Prior to SN 0160052014, SN 0160058370 to Present)



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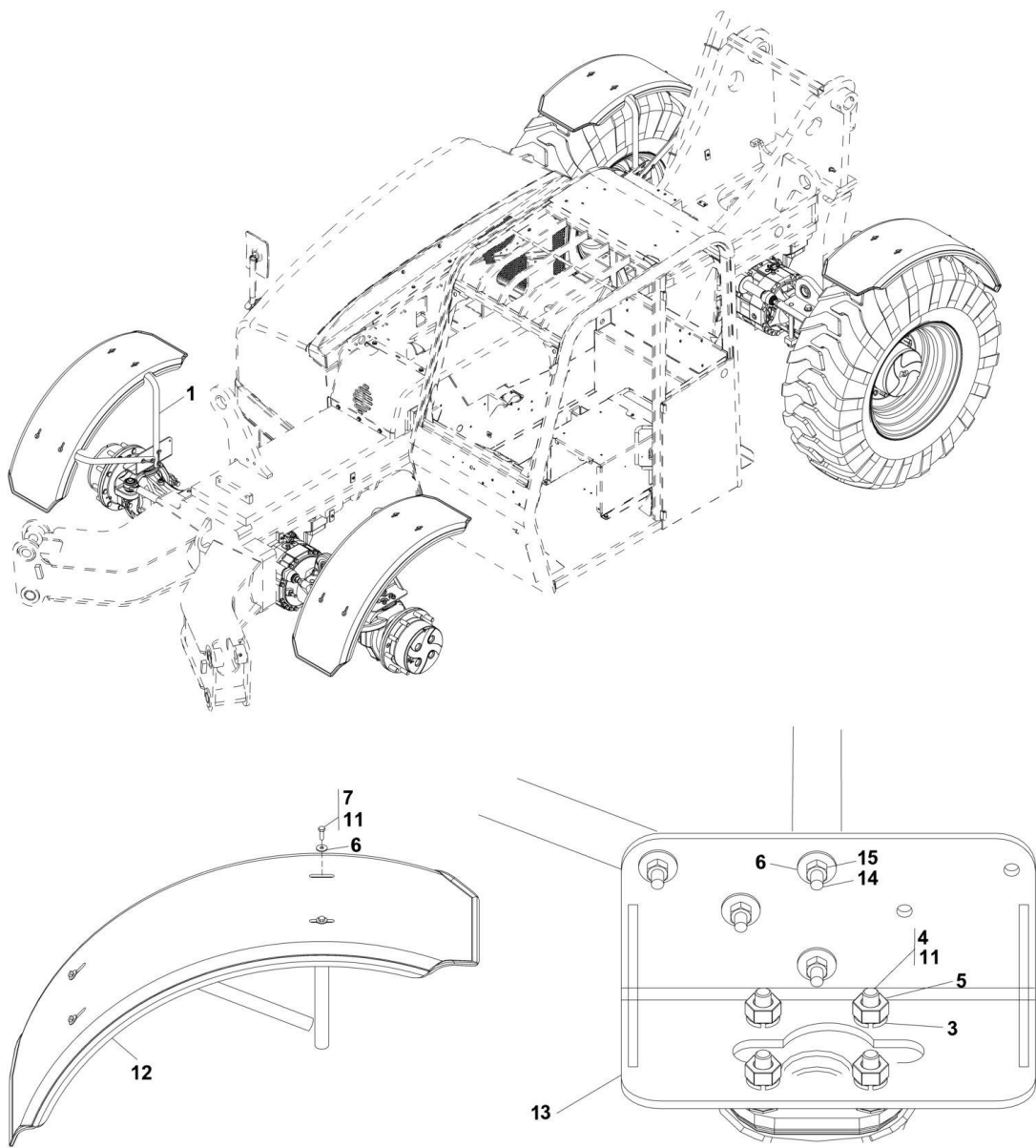
SECTION 5 - DRIVE TRAIN

FIGURE 5-53. FENDER INSTALLATION (Prior to SN 0160052014, SN 0160058370 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91565081	Ref	FENDER INSTALLATION, (not available to order, see items 1 thru 12 for service)	F
1	91473126	4	FENDER	
2	91566062	2	RH FENDER BRACKET	
3	91566063	2	LH FENDER BRACKET	
4	91514118	16	FENDER STUD, (torque to 94-104 lb-ft/127-141 Nm)	
5	91513266	16	HEX NUT, M12X1.25	
6	0641528	16	HEX HD CAPSCREW, 5/16-18X3-1/2, GR5	
7	0641524	8	HEX HD CAPSCREW, 5/16-18X3, GR5	
8	4711500	24	WASHER, 5/16	
9	4751500	24	WASHER, 5/16	
10	88521205	24	LOCKNUT, 5/16-18	
11	3520176	8	PLUG	
12	83191010	16	LOCKWASHER, 12mm	
101		Ref	FRONT AXLE, (See FRONT AXLE for Breakdown)	
102		Ref	REAR AXLE, (See REAR AXLE for Breakdown)	
201		Ref	CAB FENDER INSTALLATION, (not shown), (See CAB SECTION for Breakdown)	

SECTION 5 - DRIVE TRAIN

FIGURE 5-54. FENDER INSTALLATION (SN 0160052014 through 0160058369)



SECTION 5 - DRIVE TRAIN

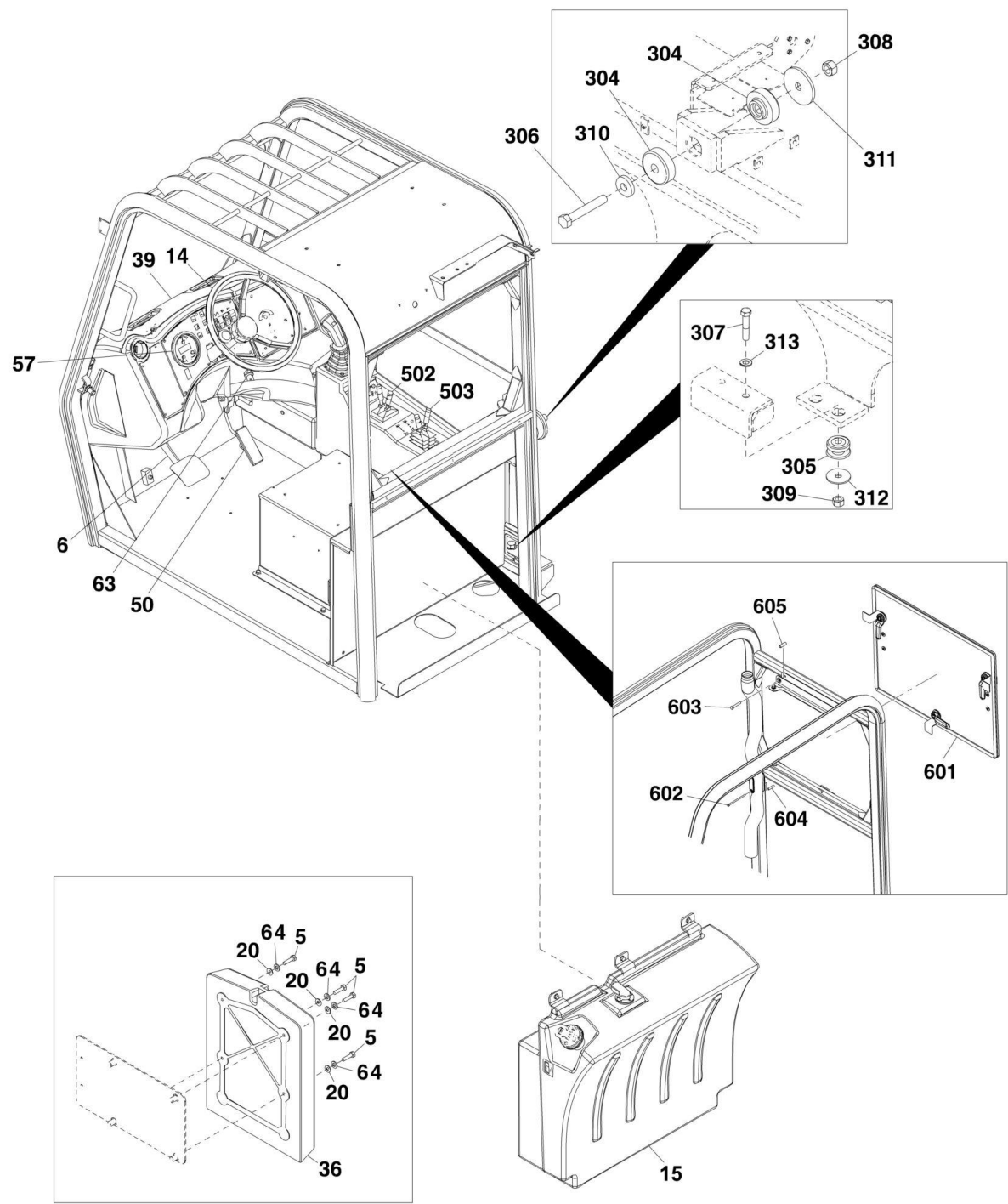
FIGURE 5-54. FENDER INSTALLATION (SN 0160052014 through 0160058369)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001142563	1	FENDER INSTALLATION, (includes all items)	E
1	1001142560	8	FENDER WELDMENT BRACKET	
3	83191010	16	LOCKWASHER, M12	
4	91514118	16	FENDER STUD	
5	91513266	16	HEX NUT, M12X1-1/4	
6	4811902	64	WASHER, 8MM	
7	0760812	16	HEX HD SCREW, M8X25	
11	1001095650	AR	LOCTITE 242	
12	1001154055	4	FENDER DUNLOFLEX	
13	1001160551	4	BRACKET, FENDER BASE	
14	0760820	16	HEXHD SCR, M8 X 60 LG	
15	3290807	16	HEX LOCK NUT, M8 X1.25	

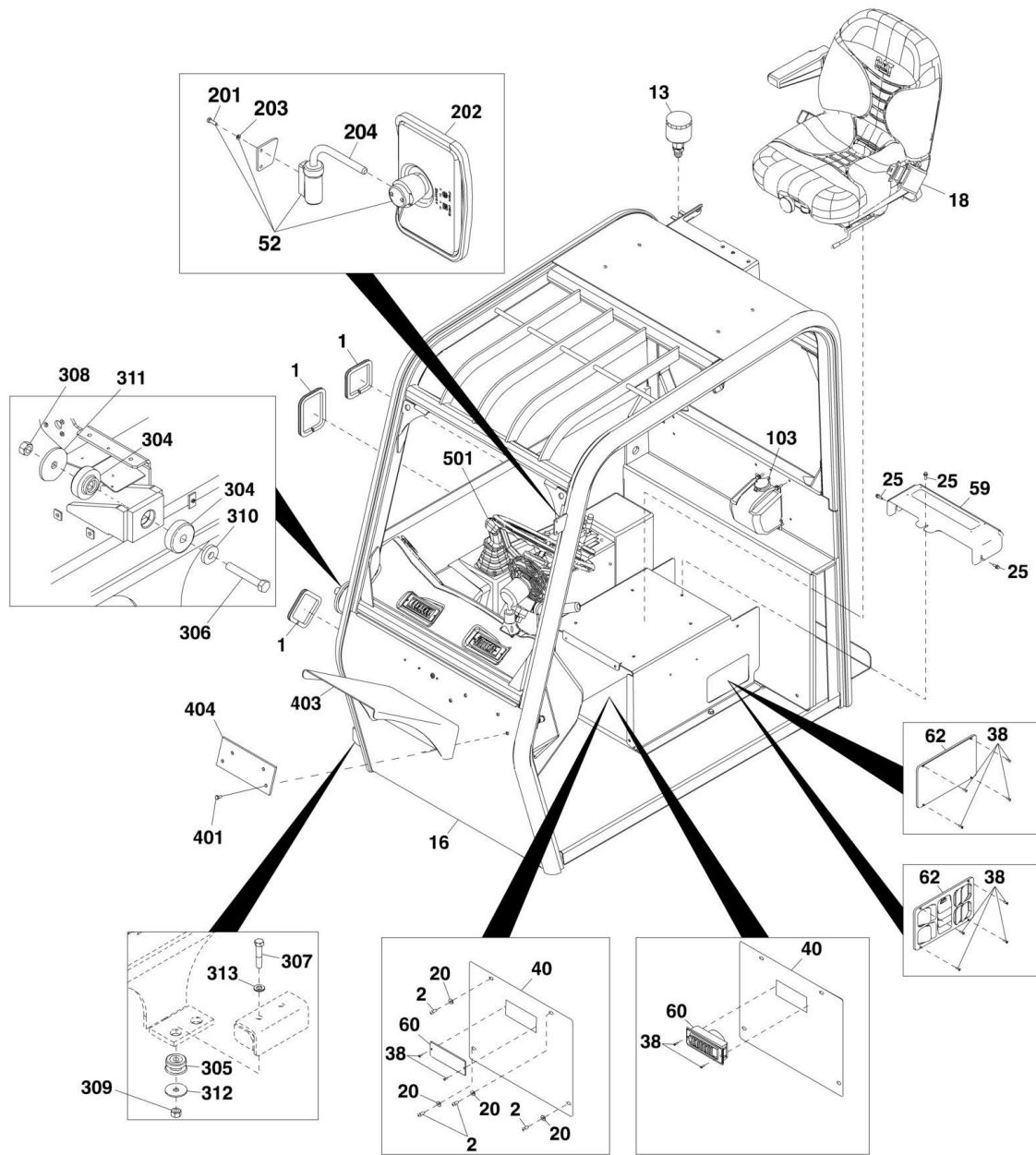
SECTION 6 - CAB

SECTION 6 - CAB

FIGURE 6-1. CAB INSTALLATION



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SECTION 6 - CAB

FIGURE 6-1. CAB INSTALLATION

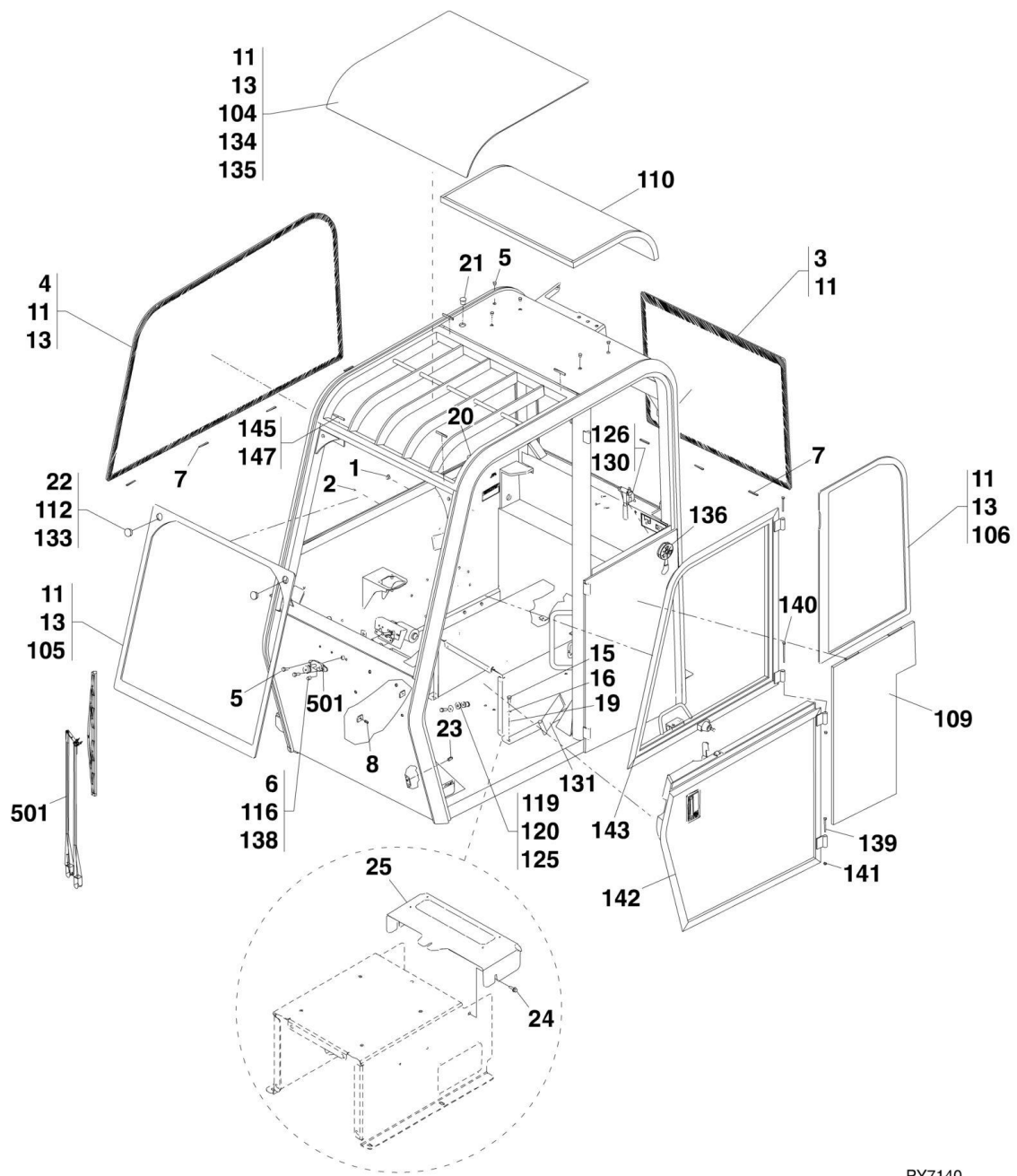
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001130311	1	OPEN CAB ASSY, (includes items 1 thru 64)	H
	1001130442	1	ENCLOSED CAB ASSY WITH HEAT	A
		Ref	3 SPEED HEATER, (See HEATER INSTALLATION for Breakdown)	
	1001130441	1	ENCLOSED CAB ASSY, (includes items 1 thru 64 & 103)	L
	1001130462	1	ENCLOSED CAB ASSY WITH HEAT AND A/C	L
		Ref	3 SPEED HEATER AND A/C UNIT, (See AIR CONDITIONING INSTALLATION for Breakdown)	
	1001130441	1	ENCLOSED CAB ASSY, (includes items 1 thru 64 & 103)	L
1	90206199	51 in	TRIM	
2	0630407	6	BUTTON HD CAPSCREW, 1/4-20X5/8	
5	0641408	4	HEX HD CAPSCREW, 1/4-20X1, GR5, (torque to 96 lb-ft/130 Nm)	
6		Ref	BRAKE AND MOUNTING HARDWARE, (See CONTROLS SECTION for Breakdown)	
13		Ref	HYDRAULIC TANK BREATHER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
14		Ref	STEERING COLUMN AND STEERING WHEEL, (See CONTROLS SECTION for Breakdown)	
15		Ref	FUEL TANK AND MOUNTING HARDWARE, (See FUEL TANK AND LINES for Breakdown)	
16		Ref	CAB, (See CAB ASSEMBLY for Breakdown)	
18		Ref	SEAT AND MOUNTING HARDWARE, (See SEATS for Breakdown)	
20	4711400	8	WASHER, 1/4	
25	0791406	3	SCREW, 1/4-20X3/4	
36	91403230	1	MANUAL STORAGE BOX	
38	91413036	6	SCREW, #6X1/2	
39		Ref	CAB INTERIOR, (See CAB INTERIOR for Breakdown)	
40	1001103567	1	SEAT RISER PANEL	
50		Ref	ACCELERATOR AND MOUNTING HARDWARE, (See CONTROLS SECTION for Breakdown)	
52	1001115153	Ref	CAB MIRROR INSTALLATION, (not available to order, see items 201 thru 204 for service)	C
53		Ref	DASH HARNESS, (not shown), (See ELECTRICAL SECTION for Breakdown)	
56		Ref	TRANSMISSION RELAY HARNESS, (not shown), (See ELECTRICAL SECTION for Breakdown)	
57		Ref	DASH PANEL AND CAB SWITCHES, (See ELECTRICAL SECTION for Breakdown)	
59	1001117136	1	ACCESS PANEL	
60		Ref	HEATING COMPONENTS, (See HEATER INSTALLATION for Breakdown)	
62	1001106866	1	PANEL	
62		Ref	COVER, (if equipped with Heat or Heat and A/C), (See HEATER INSTALLATION for Breakdown)	
63		Ref	CAB ELECTRICAL INSTALLATION, (See ELECTRICAL SECTION for Breakdown)	
64	4761400	4	LOCKWASHER, 1/4	
103		Ref	WIPER COMPONENTS, (See WIPERS for Breakdown)	
201	0700610	2	HEX HD CAPSCREW, M6X20, GR8.8	
202	1001148177	1	MIRROR	
203	8307024	2	LOCKWASHER, 6MM	
204	1001114675	1	BRACKET	

SECTION 6 - CAB

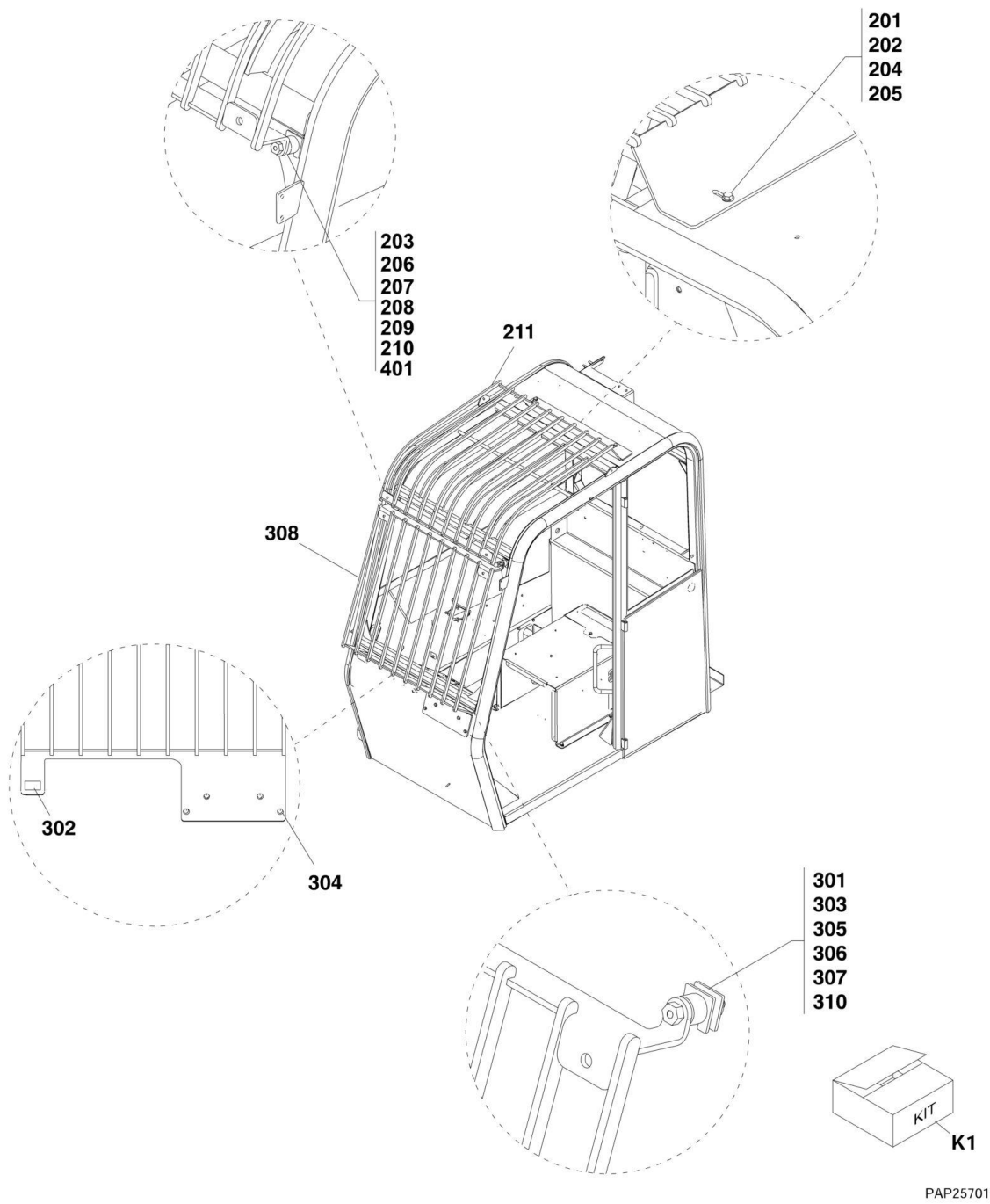
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91569003	Ref	CAB MOUNTING INSTALLATION, (not available to order, see items 304 thru 313 for service)	D
304	91563061	4	CAB MOUNT ISOLATOR	
305	91403097	4	RUBBER MOUNT	
306	0682652	2	HEX HD CAPSCREW, 1-8X6-1/2. GR8, (torque to 680-720 lb-ft/921-976 Nm)	
307	83201058	4	HEX HD CAPSCREW, 3/4-10X3-3/4, GR8, (torque to 280-308 lb-ft/380-417 Nm)	
308	88501016	2	HEX NUT, 1-8	
309	88501012	4	HEX NUT, 3/4-10	
310	1001106614	2	TAIL WASHER	
311	91563062	2	WASHER	
312	91403098	4	TAIL WASHER	
313	90027473	4	WASHER, 3/4	
	91565067	NLA	CAB FENDER INSTALLATION, (no longer available, see 1001145754 for replacement or items 401 thru 404 for service)	B
	1001145754	1	THERMOFORMED FENDER ASSY, (includes items 401 thru 404)	B
401	0791608	4	HEX HD CAPSCREW, 3/8-16X3/4, GR5	
403	1001145702	1	THERMOFORMED FENDER	
404	1001145753	1	FENDER PLATE	
501		Ref	BOOM JOYSTICK, (See CONTROLS SECTION for Breakdown)	
502		Ref	FRAME LEVEL JOYSTICK, (See CONTROLS SECTION for Breakdown)	
503		Ref	OUTRIGGER JOYSTICK, (See CONTROLS SECTION for Breakdown)	
	1001159949	Ref	REAR WINDOW EXIT INSTALLATION, (includes items 601 thru 605)	B
601	1001160889	1	REAR DROPOUT WINDOW	
602	0641436	1	HEX HD CAPSCREW, 1/4-20X2-1/8	
603	0641617	2	HEX HD CAPSCREW, 3/8-16X2-1/8	
604	1001165578	1	SHIM	
605	1001165579	2	SHIM	
	1001130914	1	CAB ENCLOSURE KIT WITH HEAT, (includes heater components, door components, rear window, skylight window, harnesses, hoses and other enclosed cab components)	C
	1001130915	1	CAB ENCLOSURE KIT WITH HEAT AND A/C, (includes heater with a/c components, door components, rear window, skylight window, harnesses, hoses and other enclosed cab components)	F

SECTION 6 - CAB

FIGURE 6-2. CAB ASSEMBLY



PY7140



SECTION 6 - CAB

FIGURE 6-2. CAB ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001117305	1	OPEN CAB, (includes items 1 thru 25)	D
	1001117306	1	ENCLOSED CAB, (includes items 1 thru 143)	D
1	80264035	6	PLUG	
2	8036654	7	PLUG, 5/16	
3	91404110	1	REAR WINDOW	
4	91404109	1	RH SIDE WINDOW	
5	8036654	10	PLUG, 5/16	
6	91164087	1	HOLE PLUG	
7	80264031	13	BLOCK	
8	1001103509	18	RIVNUT	
10	91164094	1	ROPS WARNING DECAL	
11	80364009	AR	URETHANE	
13	91404302	AR	ACTIVATOR	
14	1001103663	1	SEAT RISER WELDMENT	
15	7029854	4	HEX BOLT	
16	80364037	4	WASHER	
19	7029855	4	LOCKWASHER	
20	70024001	1	VINYL GRIP	
21	80364011	1	PLUG	
22	91344046	AR	SEALANT	
23	7028939	1	RIVNUT	
24		Ref	SCREW, 1/4-20X3/4, (See CAB INSTALLATION for Breakdown)	
25		Ref	ACCESS PANEL, (See CAB INSTALLATION for Breakdown)	
104	91404290	1	WINDOW SKY LIGHT	
105	91404291	1	FRONT WINDOW	
106	80364030	1	WINDOW	
109	91404294	1	LH SIDE PANEL FOAM	
110	91404295	1	HEAD LINER	
112	91404296	2	HOLE PLUG	
116	80384207	2	SCREW	
119	80364023	1	STRIKER BOLT	
120	91334024	1	HEX BOLT	
125	91404297	2	WASHER	
126	91404298	3	RIVET	
127	91404299	1	EMERGENCY EXIT DECAL	
130	91404301	1	EMERGENCY EXIT HAMMER	
131	80384218	1	STRAP	
133	70020632	AR	SEAM SEAL	
134	91334034	AR	BLACK URETHANE	
135	91404302	AR	ACTIVATOR	
136	91404303	1	DOOR HOLD OPEN	
138	91334035	1	SPACER	
139	80384205	2	BOLT	
140	91404305	1	BOLT	
141	91404306	3	NUT	
142		Ref	LOWER CAB DOOR, (See CAB DOOR for Breakdown)	
143		Ref	UPPER CAB DOOR ASSY, (See CAB DOOR for Breakdown)	
145	80264031	15	BLOCK	
147	70020653	4	BLOCK	

SECTION 6 - CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100879	Ref	TOP BRICK GUARD INSTALLATION, (if equipped), (not available to order, see items 201 thru 211 for service)	B
201	0641608	2	HEX HD CAPSCREW, 3/8-16X1, GR5	
202	3271601	2	HEX NUT, 3/8-16, GR8	
203	4071133	4	KEEPER	
204	4711600	4	WASHER, 3/8	
205	4761600	2	LOCKWASHER, 3/8	
206	4761800	2	LOCKWASHER, 1/2	
207	14404173	AR	SILICONE SEALANT	
208	88501008	2	HEX NUT, 1/2	
209	91403503	2	SPACER	
210	1001096728	2	BOLT, 1/2-13	
211	1001098344	1	BRICK GUARD BRACKET	
	1001100880	Ref	FRONT BRICK GUARD BRACKET INSTALLATION, (not available to order, see items 301 thru 310 for service)	B
301	4071133	4	KEEPER	
302	4420060	1	DOUBLE SIDED TAPE	
303	4761800	2	LOCKWASHER, 1/2	
304	77143003	4	WHIZ-LOCK SCREW, 5/16-18X0.625	
305	88501008	2	HEX NUT, 1/2-13	
306	91403503	2	SPACER	
307	1001096728	2	BOLT, 1/2-13	
308	1001098042	1	BRICK GUARD BRACKET	
310	14404173	AR	SILICONE SEALANT	
401	1001100895	2	CAB WORK LIGHT HARNESS, (if equipped)	
501		Ref	WIPERS, (See WIPERS for Breakdown)	
601	8035523	AR	URETHANE, (not shown)	
K1	91413142	1	SKYLIGHT WINDOW KIT, (includes items 104 & 601)	

FIGURE 6-3. CAB DOOR

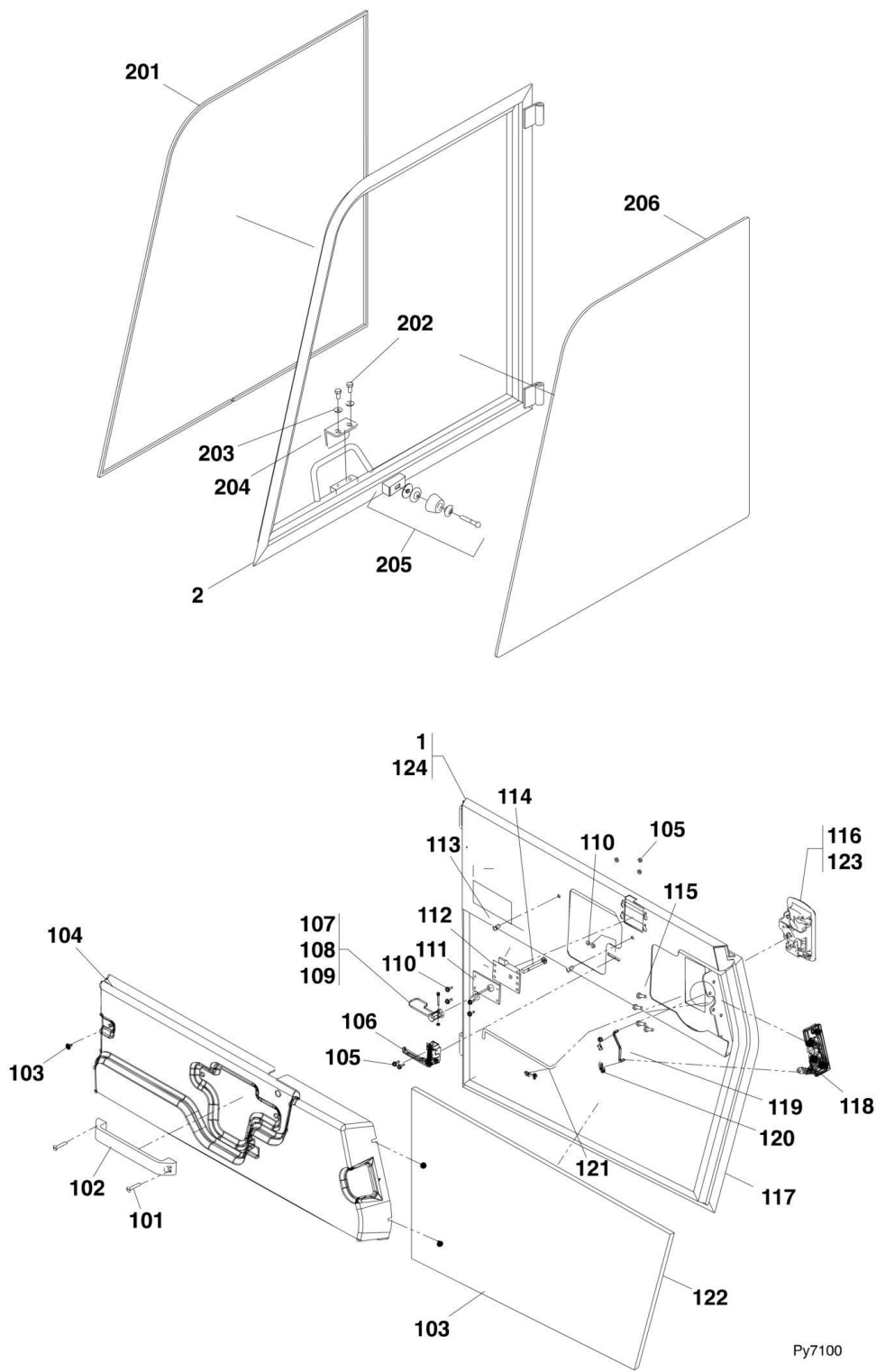
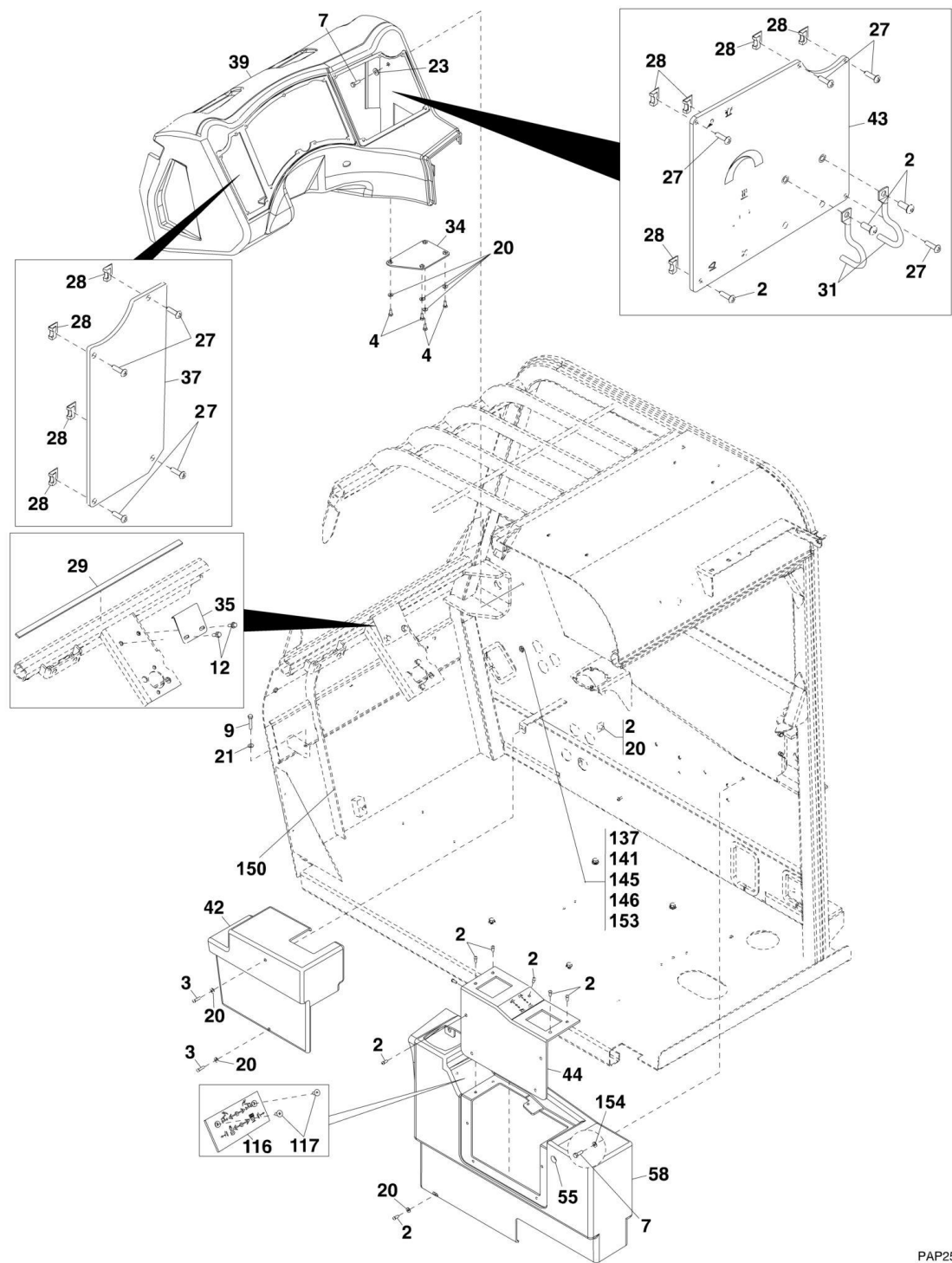


FIGURE 6-3. CAB DOOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91474481	1	LOWER DOOR ASSY, (includes items 101 thru 124)	
2	91474482	1	UPPER DOOR ASSY, (includes items 201 thru 206)	
101	8035461	2	FLAT HD SCREW, 1/4-20X1-1/4	
102	91404316	1	GRAB HANDLE	
103	80264066	3	SCREW, M6X1X12	
104	91404311	1	PLASTIC DOOR COVER	
105	80384191	6	WHIZ-LOCK SCREW, #10-24X0.5	
106	80384192	1	INSIDE HANDLE ASY, LH	
107	91404315	1	RELEASE LEVER, RH WINDOW AND LH DOOR	
108	91404317	1	SOCKET HD SCREW, #8-32X1.12	
109	91404318	1	NUT, #8-32	
110	91404313	6	LOCKNUT, #10-24	
111	91404320	1	SLAM LATCH STIFFENER	
112	91404319	1	SLAM LATCH, LH	
113	8866334	2	RIVNUT, 1/4-20	
114	91404321	1	LOWER DOOR DRIVE BAR WELDMENT	
115	80384189	4	HEX SCREW, 1/4-20X3/4	
116	1001081241	1	PADDLE LATCH, LH, (includes item 323)	
117	80364001	8 ft	BULB SEAL	
118	80364079	1	CAM LATCH, RH	
119	91404309	1	EXTERIOR RELEASE DOOR ROD	
120	80384187	3	ROD END RETAINER CLIP	
121	91404310	1	INTER RELEASE DOOR ROD	
122	91404312	1	FOAM, LOWER DOOR	
123	80964051	1	DOOR KEY	
124	N.S.S.	1	DOOR WELDMENT	
201	80364001	11 ft	BULB SEAL	
202	91404324	2	HEX BOLT, 5/16-18X5/8	
203	91334032	2	WASHER	
204	91404323	1	SLAM LATCH	
205	91474492	1	MALE DOOR HOLD-OPEN	
206	91404322	1	UPPER GLASS	

SECTION 6 - CAB

FIGURE 6-4. CAB INTERIOR



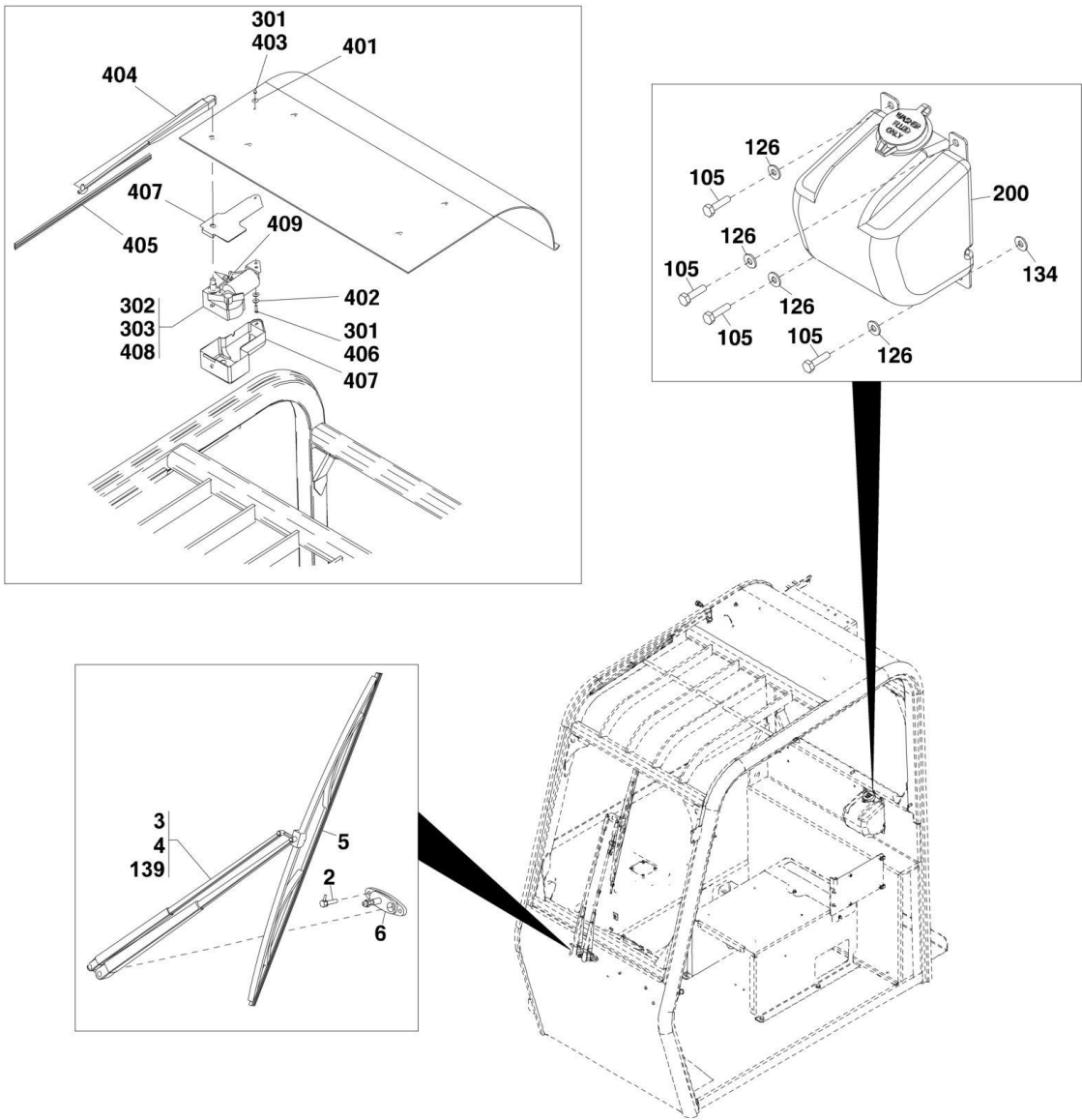
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FIGURE 6-4. CAB INTERIOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2	0630407	12	BUTTON HD CAPSCREW, 1/4-20X5/8	
3	0630457	2	BUTTON HD CAPSCREW, 1/4-20X1	
4	0641405	4	HEX HD CAPSCREW, 1/4-20X5/8, GR5	
7	0641508	3	HEX HD CAPSCREW, 5/16-18X1, GR5	
9	0641514	1	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
12	0791608	2	SCREW, 3/8-16X1	
20	4711400	8	WASHER, 1/4	
21	4711500	1	WASHER, 5/16	
23	4751500	1	WASHER, 5/16	
27	80363033	12	SCREW, #10-24X1, (open cab)	
27	1001100322	12	PAN HD CAPSCREW, #10, (enclosed cab)	
28	80363034	12	SPECIAL NUT, #10-24	
29	90200755	32 in	FOAM TAPE	
31	91163087	2	CAPACITY CHART BRACKET	
34	91401516	1	BRACKET	
35	91401590	1	DASH CLAMP	
37	91403324	1	LH COVER	
39	91473211	1	DASH PLASTIC, (open cab)	
39	1001103553	1	DASH PLASTIC, (enclosed cab)	
42	91563075	1	RH LOWER PLASTIC	
43	91563191	1	RH DASH PANEL (Prior to SN 0160056008)	
43	1001156272	1	RH DASH PANEL (SN 0160056008 to Present)	
44	91563205	1	RH COVER PLATE	
55	1001131130	2	HOLE PLUG	
58	1001103557	1	RH CONSOLE	
116	91563207	1	FRAME LEVEL/AUXILIARY PLATE	
117	0741404	2	FLAT SOCKET HD CAPSCREW, 1/4-20X1/2	
137	0641510	1	HEX HD CAPSCREW, 5/16-18X1-1/4, GR5	
141	3311505	1	LOCKNUT, 5/16-18	
145	4751500	1	FLAT WASHER, 5/16	
146	4771500	1	STAR WASHER, 5/16	
150	90206198	AR	TRIM-LOCK	
153	0100011	AR	LOCTITE 242	
154	91023098	2	FENDER WASHER	

SECTION 6 - CAB

FIGURE 6-5. WIPERS



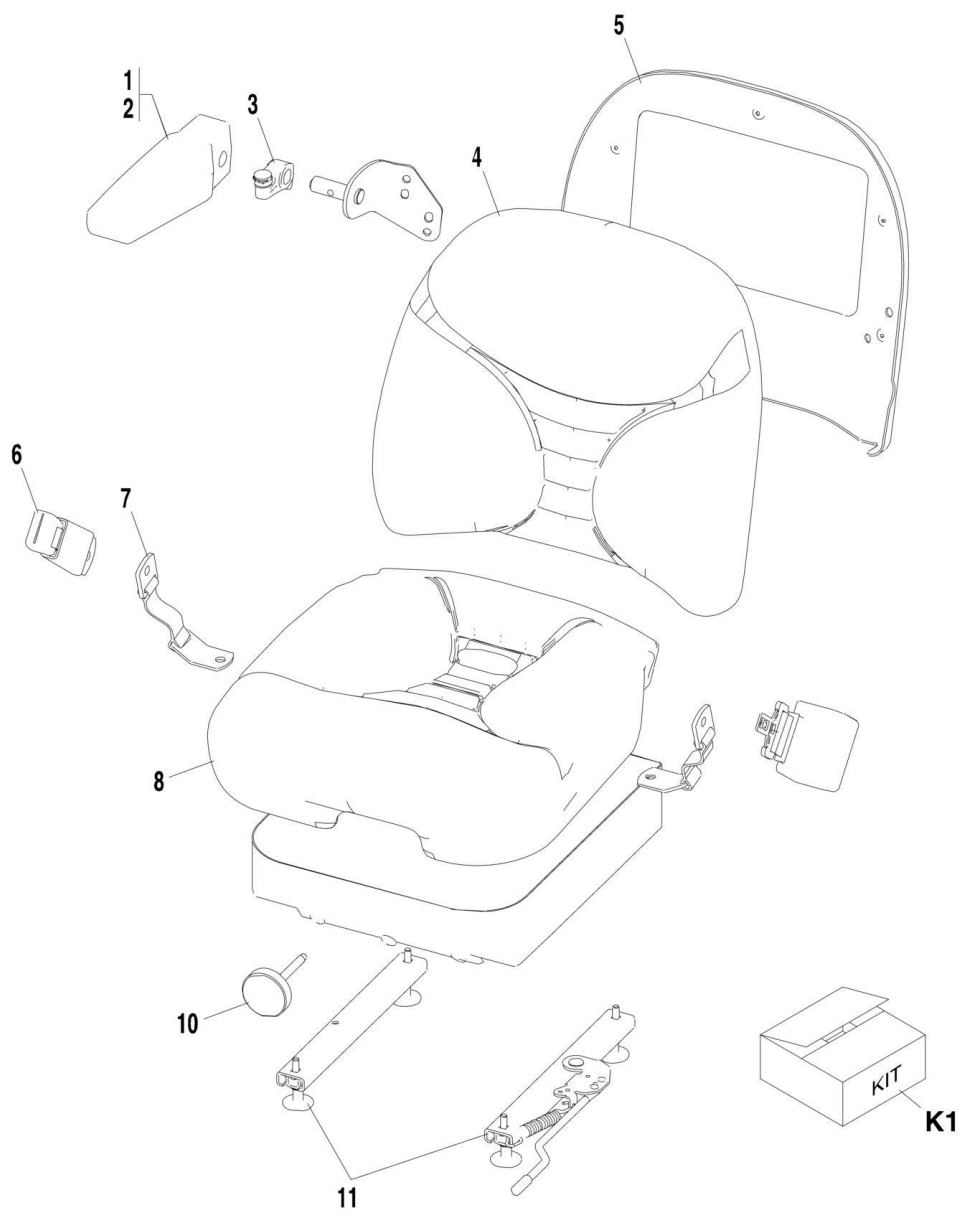
Note:
1. USE LOCTITE® 242™ AS NEEDED ON BOLTS & NUTS.
2. USE SEALANT (P/N 14403190) VULKEM SEALANT ON TOP OF CAB AS NEEDED AROUND WIPER MOTOR, SCREW & ROD.

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FIGURE 6-5. WIPERS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	80384203	1	WIPER DRIVE ARM, (not shown)	
2	1001081310	1	WET ARM ADAPTER	
3	1001081311	1	WET ARM KIT	
4	1001081308	1	WIPER ARM	
5	8035392	1	WIPER BLADE	
6	1001081307	1	ADAPTER MOUNT	
7	91144478	1	WIPER MOTOR SHAFT, (not shown)	
8	7029860	1	WIPER MOTOR, (not shown)	
105	0641408	4	HEX HD CAPSCREW, 1/4-20X1, GR5	
126	4711400	4	WASHER, 1/4	
134	4791400	1	SPECIAL WASHER, 1/4	B
139	82033997	131 in	HOSE	
200	1001111112	1	TANK, (includes cap)	
200	70025480	1	PUMP, RESERVOIR	
203	1320136	2	CLAMP, (not shown)	
	1001139927	Ref	SKYLIGHT WIPER INSTALLATION, (not available to order, see items 301 thru 304 for service)	
301		Ref	LOCTITE 242	
302	1001111086	1	SKYLIGHT WIPER ASSY, (includes items 401 thru 409)	
303	14403190	AR	SEALANT	C
304	8096D097	48 in	CONDUIT, (not shown)	
401	4740553	1	WASHER, 1/4	
402	8036678	2	WASHER, 1/4	
403	8034805	1	HEX NUT, #10-24	
404	8034807	1	WIPER ARM	
405	8035498	1	WIPER BLADE	
406	8036088	1	HEX BOLT, #10-24X3/4	
407	70020528	1	WIPER COVER	
408	1001107799	1	WIPER MOTOR	
409	1001093828	1	WIPER MOTOR HARNESS	

FIGURE 6-6. SEATS

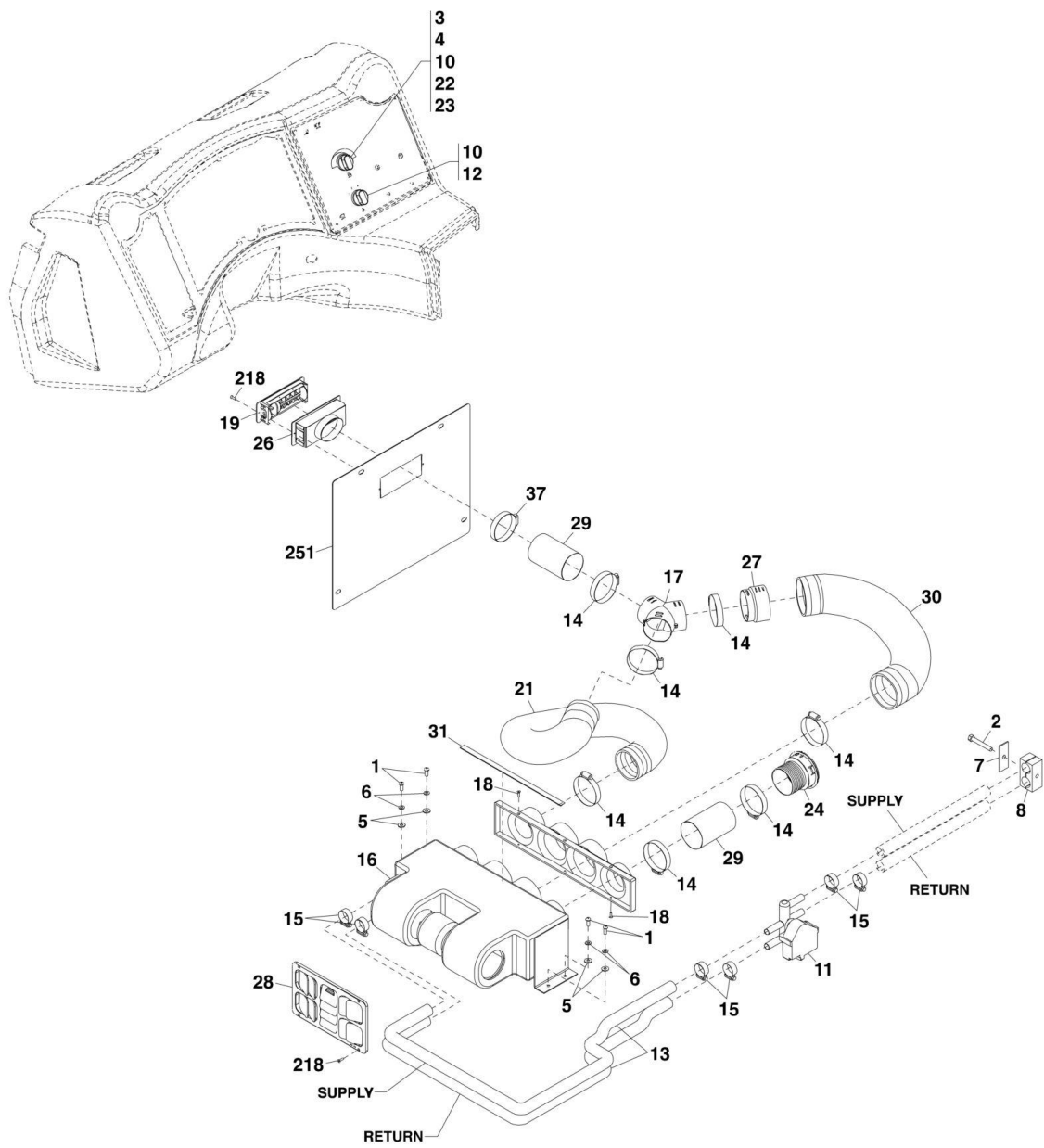


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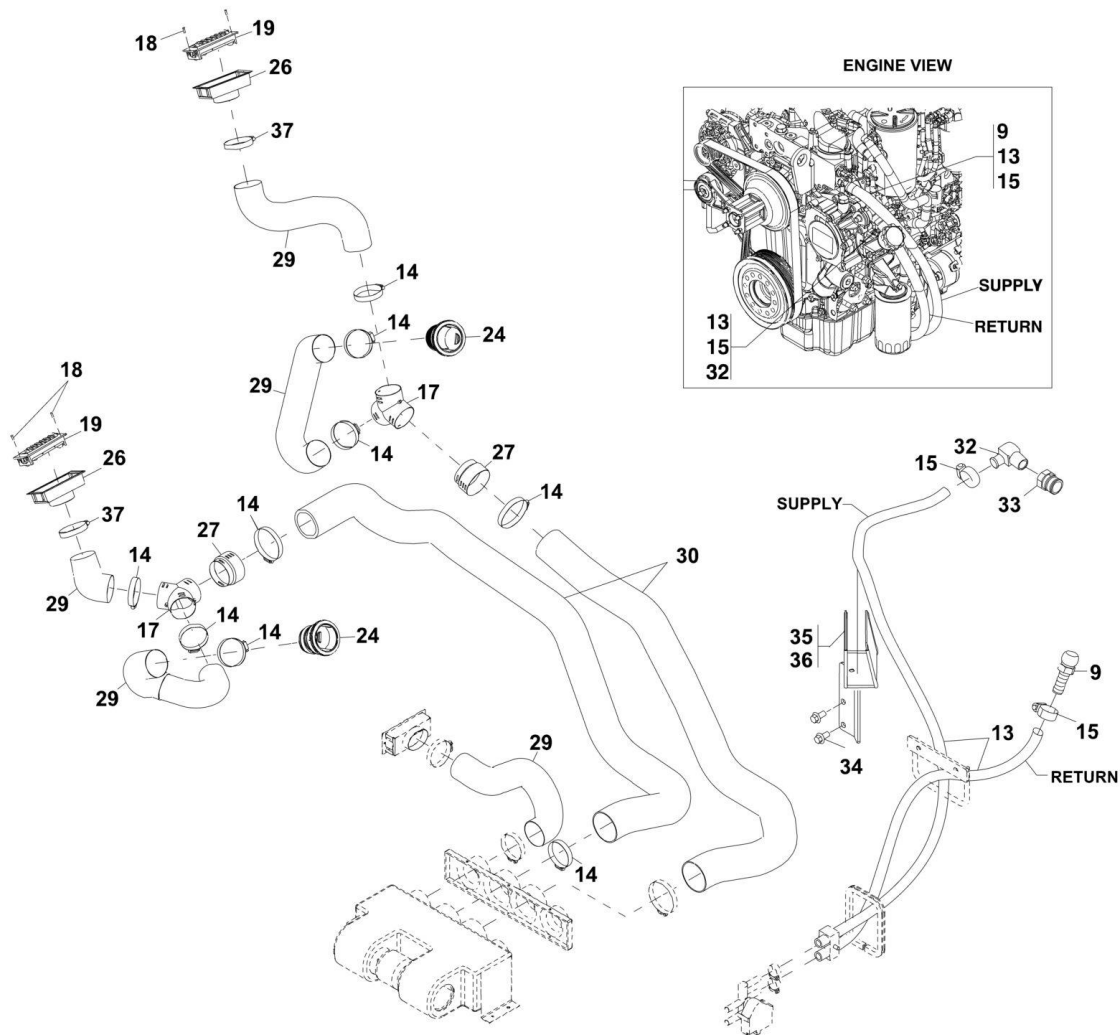
FIGURE 6-6. SEATS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91563158	1	SUSPENSION SEAT, (includes all items)	G
1	7026904	1	ARMREST ASSY RH KIT, (includes items 2 & 3)	
2	N.S.S.	1	ARMREST, MOLDED KIT	
3	N.S.S.	1	ARMREST STOP ASSY	
4	7026900	1	BACK CUSHION KIT	
5	7026902	1	BACK PANEL KIT	
6	7026905	1	SEAT BELT KIT	E
	91563164	NLA	SEAT BELT, 3 IN, (California Only), (not included with 91563158) (no longer available, use 70023139 for replacement)	
7	7026906	1	TETHER KIT	
8	7026901	1	SEAT CUSHION KIT	
10	7026799	1	KNOB KIT	
11	7026798	1	SLIDE KIT	
K1	70023139	1	SEAT BELT KIT, 3 IN, (California only), (includes retractor and female ends)	

FIGURE 6-7. HEATER INSTALLATION



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SECTION 6 - CAB

FIGURE 6-7. HEATER INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001139139	Ref	HEATER INSTALLATION, (open cab), (not available to order, see items 1 thru 33 & 37 for service)	C
	1001130442	Ref	HEATER INSTALLATION, (enclosed cab), (not available to order, see items 1 thru 20, 22 thru 24 & 26 thru 37 for service)	A
1	0630407	4	BUTTON HD CAPSCREW, 1/4-20X5/8	
2	0641518	1	HEX HD CAPSCREW, 5/16-18X2-1/4, GR5	
3		Ref	SOCKET HD CAPSCREW, #6-32X.62, (See CAB INTERIOR for Breakdown), (enclosed Cab)	
4		Ref	HEX NUT, #6-32, GR2, (See CAB INTERIOR for Breakdown)	
5	4711400	4	WASHER, 1/4	
6	4761400	4	LOCKWASHER, 1/4	
7	77133137	1	COVER PLATE	
8	77133279	1	CLAMP SET	
9	77383540	1	ADAPTER, (open cab)	
9	1001104685	1	BARBED FITTING, (enclosed cab)	
10		Ref	KNOB, (See ELECTRICAL SECTION for Breakdown)	
11	80383231	1	VALVE	
12		Ref	BLOWER SWITCH, (See ELECTRICAL SECTION for Breakdown)	
13	82033995	21.8 ft	HOSE	
14	86883328	7	CLAMP, (open cab)	
14	86883328	13	CLAMP, (enclosed cab)	
15	86683193	8	CLAMP	
16	1001114282	1	3 SPEED HEATER ASSY	
17	1001101668	1	CONDUIT, (open cab)	
17	1001101668	3	CONDUIT, (enclosed cab)	
18	91413036	6	SCREW, #6X1/2, (open cab)	
18	91413036	10	SCREW, #6X1/2, (enclosed cab)	
19	1001100279	1	VENT, (open cab)	
19	1001100279	3	VENT, (enclosed cab)	
20		Ref	ENCLOSED CAB OPTIONS HARNESS, (not shown), (See ELECTRICAL SECTION for Breakdown)	
21	71492152	2.5 ft	HOSE, (open cab)	
22		Ref	POTENTIOMETER ASSY, (See ELECTRICAL SECTION for Breakdown)	
23		Ref	CLIP, (See ELECTRICAL SECTION for Breakdown)	
24	1001100278	1	VENT, (open cab)	
24	1001100278	3	VENT, (enclosed cab)	
26	1001101216	1	VENT BASE, (open cab)	
26	1001101216	3	VENT BASE, (enclosed cab)	
27	1001101669	1	CONDUIT, (open cab)	
27	1001101669	2	CONDUIT, (enclosed cab)	
28	1001106849	1	COVER	
29	1001100446	11 in	HOSE, (open cab)	
29	1001100446	73 in	HOSE, (enclosed cab)	
30	1001100447	1.4 ft	HOSE	
31	1001090344	2.7 ft	TAPE, (enclosed Cab)	
32	84712749	1	ADAPTER, 90	
33	2220282	1	REDUCER FITTING	
34	0781212	2	FLANGE SCREW, M12X25, (enclosed cab)	
35	1001138788	1	HOSE GUIDE SUPPORT, (enclosed cab)	
36	90206196	24 in	TRIM-LOK, (enclosed cab)	

SECTION 6 - CAB

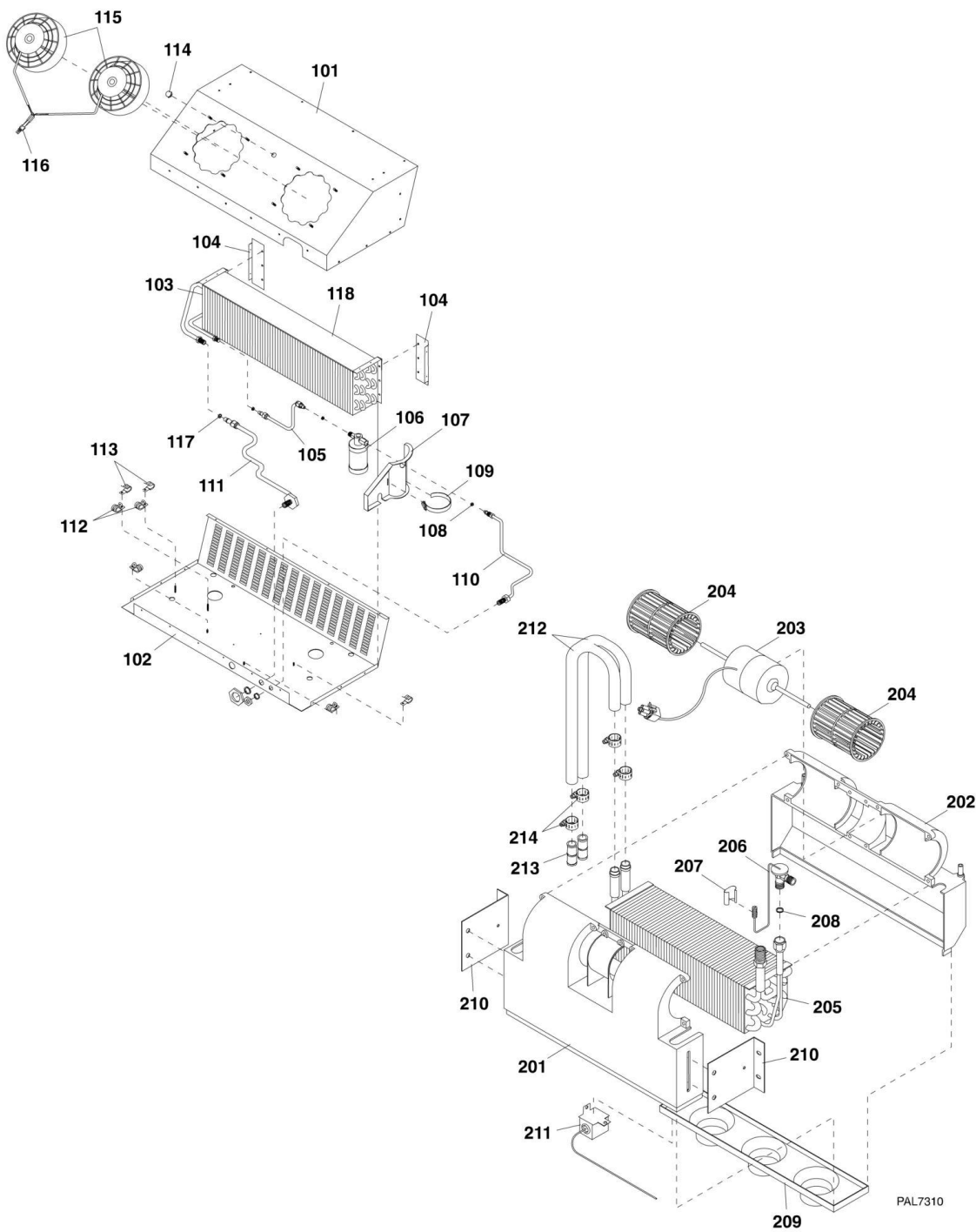
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
37	84231107	3	HOSE CLAMP, (enclosed cab)	
37	84231107	1	HOSE CLAMP, (open cab)	
218		Ref	SCREW, #6X1/2, (See CAB INSTALLATION for Breakdown)	
251		Ref	SEAT RISER PANEL, (See CAB INSTALLATION for Breakdown)	

270

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31200728-6-8A



SECTION 6 - CAB

FIGURE 6-8. AIR CONDITIONING INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001130462	Ref	AIR CONDITIONING INSTALLATION, (not available to order, see items 1 thru 99 & 409 thru 465 for service)	L
1	0641408	1	HEX HD CAPSCREW, 1/4-20X1, GR5	
2	0641424	1	HEX HD CAPSCREW, 1/4-20X3, GR5	
3	0641507	2	HEX HD CAPSCREW, 5/16-18X7/8, GR5	
4	0641532	2	HEX HD CAPSCREW, 5/16-18X4, GR5	
5	0641605	2	HEX HD CAPSCREW, 3/8-16X5/8, GR5	
6	2080063	2	HEX LOCKNUT, 1/4-20, GR2	
8	4240033	6	TIE WRAP, (not shown)	
9	4751400	2	WASHER, 1/4	
10	4751500	4	WASHER, 5/16	
11	4751600	2	WASHER, 3/8	
12	4761400	2	LOCKWASHER, 1/4	
13	4761500	2	LOCKWASHER, 5/16	
14	4761600	2	LOCKWASHER, 3/8	
16	77323029	1	CLAMP SET	
17	91413036	10	SCREW, #6X1/2	
18		Ref	A/C HARNESS, (not shown), (See ELECTRICAL SECTION for Breakdown)	
19	1001090344	28 in	TAPE	
20	1001100279	2	VENT	
21	1001100281	1	VENT	
22	1001100446	21 in	HOSE	
23	1001100770	1	TUBE	
24	1001100773	1	BRACKET	
25	1001101259	1	TUBE	
26	1001101640	1	FILTER	
27		Ref	A/C TEMPERATURE DECAL, (See DECALS SECTION for Breakdown)	
28	1001107340	1	A/C CONDENSER, (includes items 101 thru 122)	A
30	1380158	4	CLIP	
32	1001142350	1	3 SPEED HEATER AND A/C ASSY, (includes items 201 thru 221)	C
39		Ref	HEATING AND A/C DUCT COMPONENTS, (See HEATER INSTALLATION for Breakdown)	
42	1001140694	1	BELT	
43	1001146218	1	HOSE ASSY	
44	1001107428	1	HOSE	
45	1001146217	1	HOSE ASSY	
46	1001107339	1	A/C COMPRESSOR CLUTCH	
53	1001131818	1	BUSHING	
54	1001139703	1	BRACKET	
56	0681618	2	HEX HD CAPSCREW, 3/8-16X2-1/4, GR8	
60	83201057	2	HEX HD CAPSCREW, 3/8-16X2, GR8	
67	0641613	2	HEX HD CAPSCREW, 3/8-16X1.625, GR5	
72	3291001	1	HEX NUT, M10X1.5, GR8	
73	3300492	7	LOCK NUT, GR12	
76	4891600	12	WASHER, 3/8	
86	1001140468	1	A/C DRIVE PULLEY	
90	4711400	6	WASHER, 1/4	
91	3311405	3	HEX LOCK NUT, 1/4-20, GR2	

SECTION 6 - CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
94	8310737	1	ROD END, M10X1.5X100mm	
97	1001138945	1	COMPRESSOR COVER	
98	1001138944	1	A/C COVER SUPPORT	
99	0641406	3	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
101	70020643	1	CASE TOP	
102	70022880	1	CASE BOTTOM	
103	70020644	1	COIL	
104	70022881	2	BRACKET	
105	91514270	1	TUBE ASSY	
106	91514266	1	DRIER	
107	70022882	1	BRACKET	
108	80363102	3	O-RING	
109	70022883	1	CLAMP	
110	70020645	1	TUBE ASSY	
111	70020646	1	TUBE ASSY	
112	70022884	4	CLAMP	
113	70022885	3	CLAMP	
114	70022886	1	PLUG	
115	91514295	2	FAN	
116	70020647	1	FAN HARNESS	
117	80363103	1	O-RING	
118	70022891	2 ft	FOAM	
120	70022890	4	BOLT, 3/8-16X1-3/4	
121	70022888	4	WASHER, 3/8	
122	70022889	4	LOCKWASHER,3/8	
201	70022552	1	CASE TOP	
202	70022553	1	CASE BOTTOM	
203	70022805	1	BLOWER MOTOR	
204	70023108	2	BLOWER MOTOR GASKET	
205	70022876	1	HEATER/COOLER COIL	
206	91514272	1	VALVE	
207	70022877	1	CLAMP	
208	80363103	1	O-RING	
209	N.S.S.	1	3 HOLE TOP	
210		Ref	LEG	
211	70024386	1	THERMOSTAT	
212		Ref	HOSE	
213	N.S.S.	2	HEATER SPLICE	
214	70022879	4	CLAMP	
215	70022555	1	AIR RESTRICTER, (not shown)	
216	91514296	1	METRO SWITCH, (not shown)	
217	70020640	1	12V RELAY, (not shown)	
218	70022556	3 ft	HOSE, (not shown)	
219	70022557	1	DRAIN ELBOW, 3/8, (not shown)	
220	70022558	1	DRAIN TEE, 3/8, (not shown)	
221	80363099	1	PRESSURE SWITCH	
301	86883328	1	CLAMP	
409	1321716	1	CLAMP	
454	0811610	1	SCREW, 3/8-16X1-1/4	
455	1321320	1	CLAMP	
456	4711500	1	WASHER, 5/16	

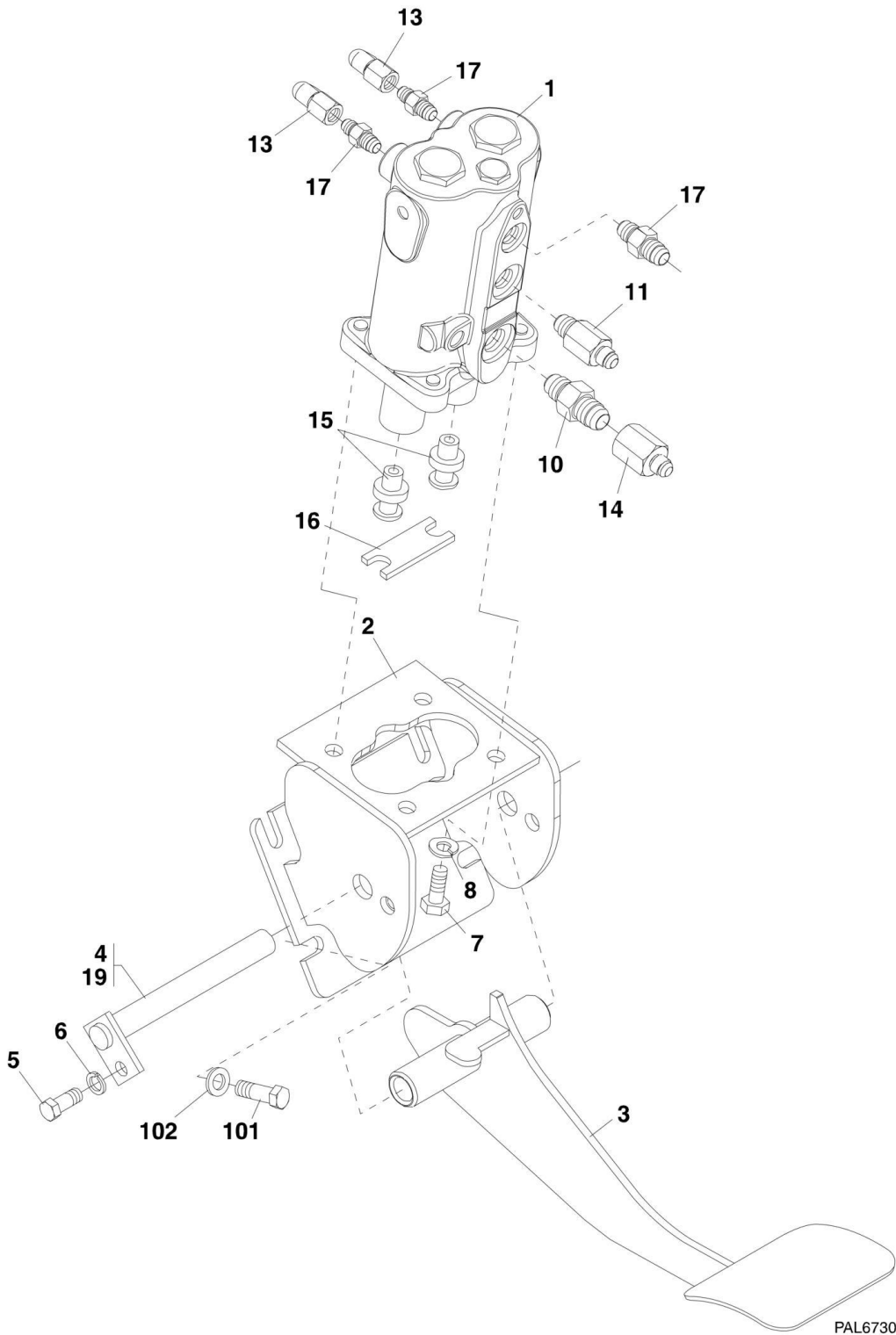
SECTION 6 - CAB

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
457	77133134	1	COVER PLATE	
458	77133279	1	CLAMP	
460	88521205	1	HEX LOCKNUT, 5/16-18	
461	91143122	1	SUPPORT CLAMP	
462	77133137	1	COVER PLATE	
463	1001143654	1	HOSE GUIDE PLATE	
464	8305630	1	HEX LOCKNUT, M10X1.50	
465	1001093526	1	AC REFRIGERANT DECAL	

SECTION 7 - CONTROLS

SECTION 7 - CONTROLS

FIGURE 7-1. BRAKE



PAL6730

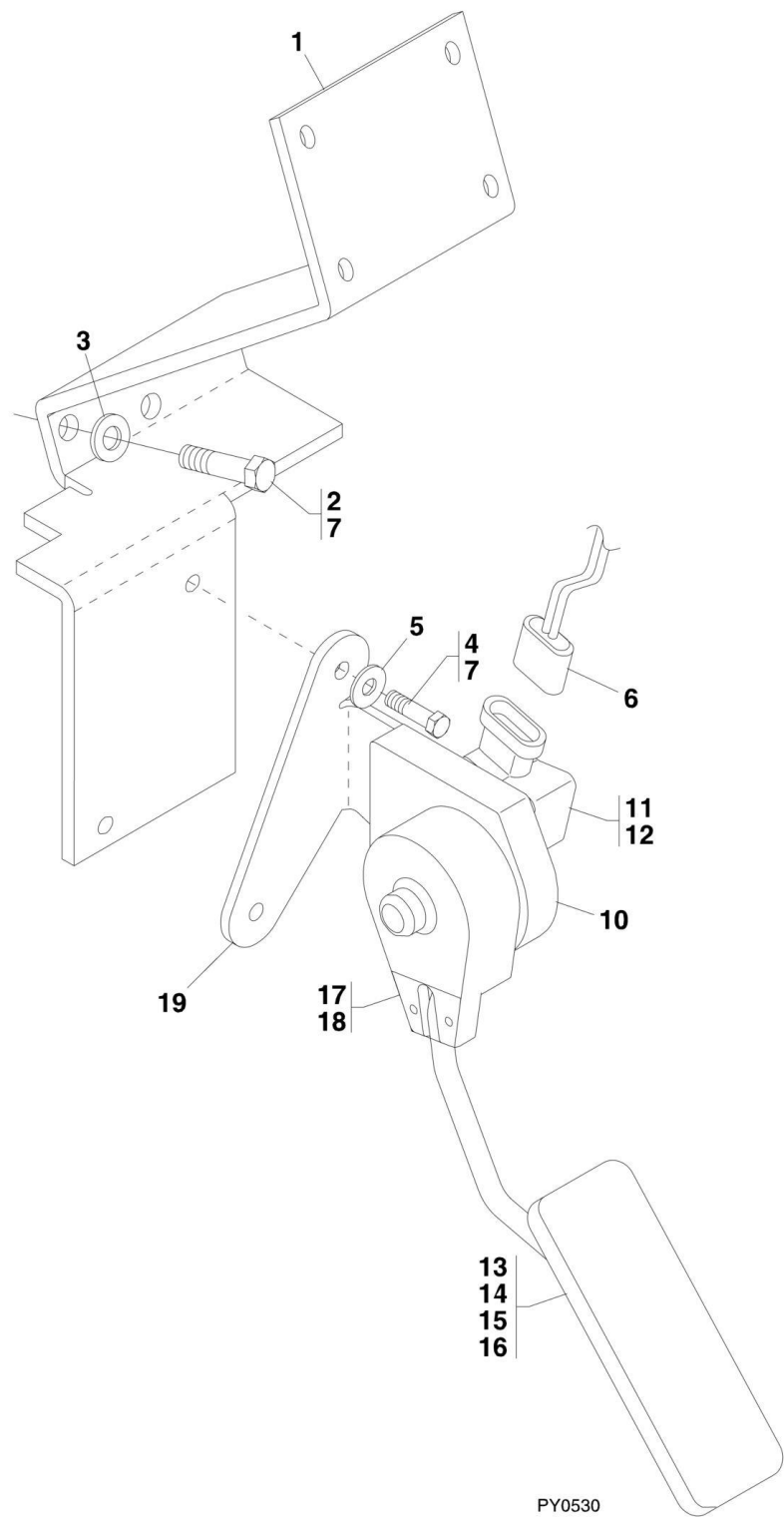
SECTION 7 - CONTROLS

FIGURE 7-1. BRAKE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001091173	Ref	BRAKE INSTALLATION, (not available to order, see items 1 thru 19 for service)	F
1		Ref	BRAKE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
2	1001091118	1	BRACKET	
3	1001090741	1	PEDAL	
4	91476031	1	PIN	
5	0641608	1	HEX HD CAPSCREW, 3/8-16X1, GR5	
6	4761600	1	LOCKWASHER, 3/8	
7	0701014	4	HEX HD CAPSCREW, M10X30, GR8.8	
8	4832000	4	LOCKWASHER, 10MM	
10	2221257	1	STRAIGHT FITTING, (includes o-ring)	
11	8770258	1	STRAIGHT FITTING, (includes o-ring)	
13	2172106	2	ADAPTER, 90, (swivel nut)	
14	2221244	1	REDUCER ADAPTER, (includes o-ring)	
15	91513180	2	ACTUATOR	
16	91511145	1	TIE BAR	
17	2144605	3	STRAIGHT FITTING, (includes o-ring)	
19	3020039	AR	MOLY PASTE	
101	0641506	4	HEX HD CAPSCREW, 5/16-18X3/4, GR5, (torque to 17 lb-ft/23 Nm)	
102	4711500	8	FLAT WASHER, 5/16	

SECTION 7 - CONTROLS

FIGURE 7-2. ACCELERATOR



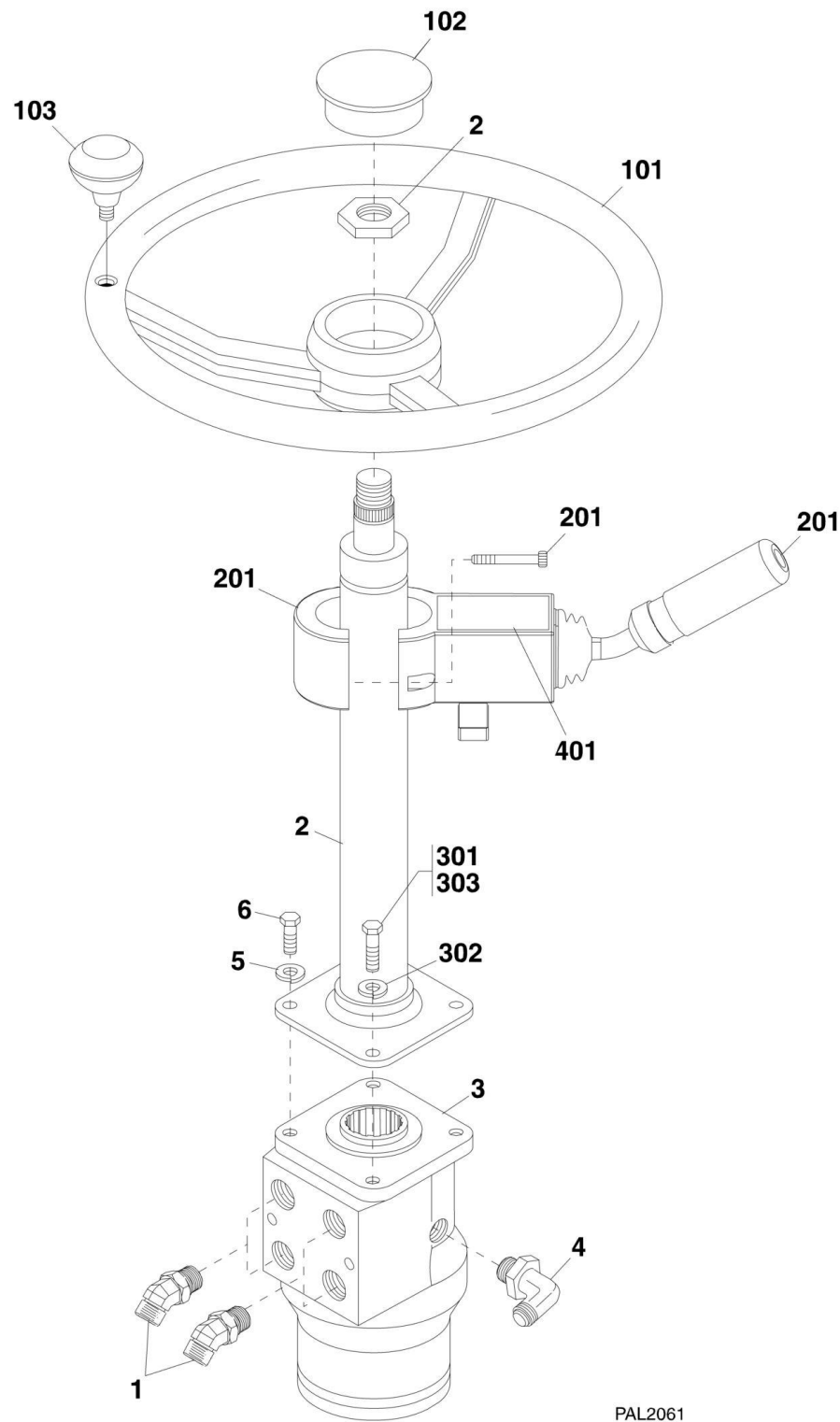
SECTION 7 - CONTROLS

FIGURE 7-2. ACCELERATOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	91561192	1	BRACKET	A
2	0641508	3	HEX HD CAPSCREW, 5/16-18X1, GR5, (torque to 17 lb-ft/23 Nm)	
3	4711500	3	FLAT WASHER, 5/16	
4	0641408	2	HEX HD CAPSCREW, 1/4-20X1, GR5, (torque to 96 lb-ft/130 Nm)	
5	4711400	2	LOCTITE 242	
6		Ref	ENGINE HARNESS, (See ELECTRICAL SECTION for Breakdown)	
7	0100011	AR	LOCTITE 242	
10	1001126589	1	PEDAL, (includes items 11 thru 16)	
11	70024319	1	SENSOR KIT, (includes screws)	
12	N.S.S.	1	BRACKET	
13	70023325	1	PEDAL KIT, (includes items 14 & 16)	
14	N.S.S.	1	PEDAL SPRING	
15	7026481	1	PEDAL ARM	
16	N.S.S.	1	PEDAL PIN	

SECTION 7 - CONTROLS

FIGURE 7-3. STEERING COLUMN



PAL2061

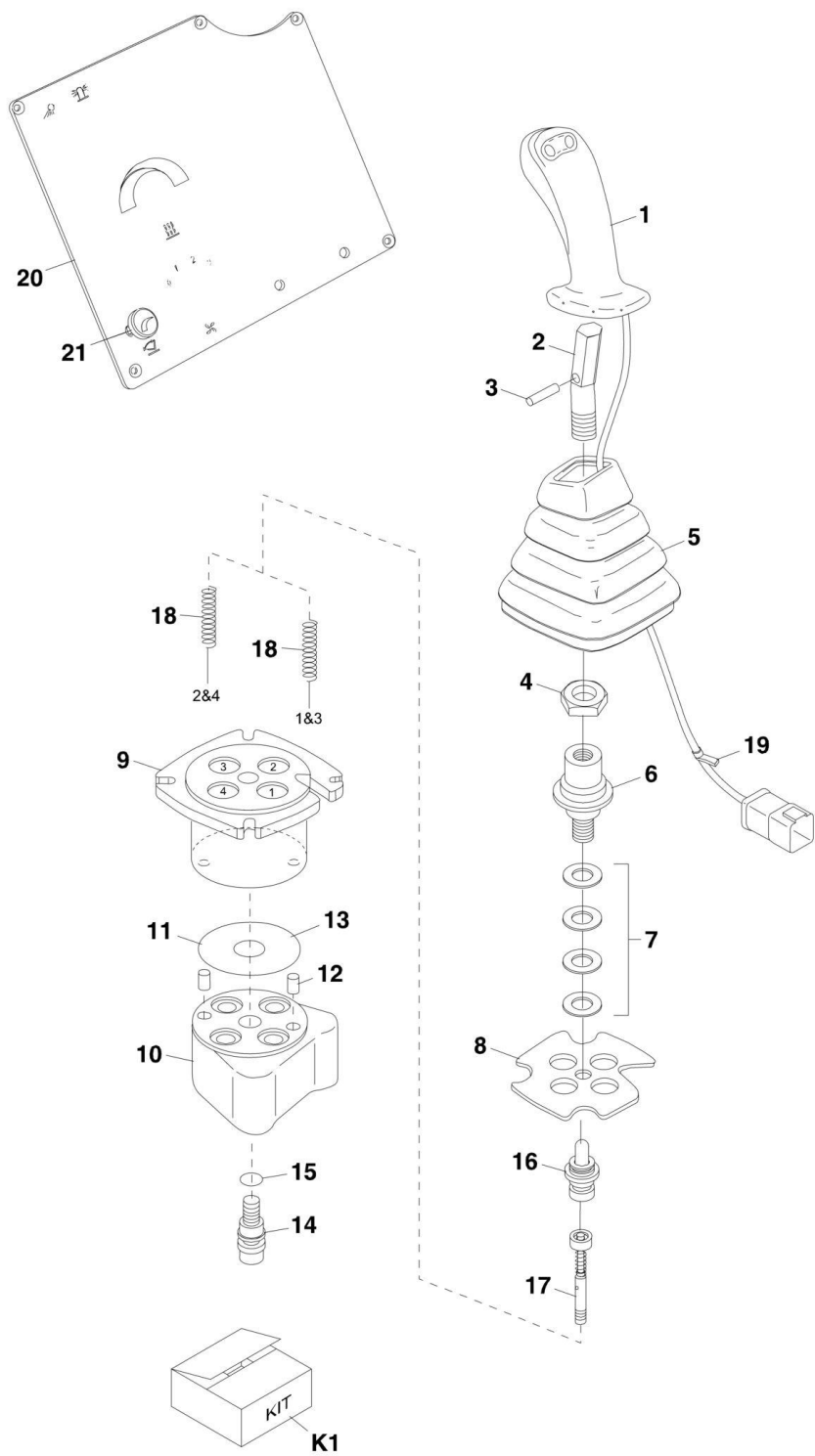
SECTION 7 - CONTROLS

FIGURE 7-3. STEERING COLUMN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001001213	1	STEERING COLUMN, (includes 1 thru 6)	A
1	2150808	4	ADAPTER, 45, (includes o-ring)	
2	91513125	1	STEERING COLUMN	
2	91144191	1	STEERING WHEEL NUT, (torque to 29-34 lb-ft/39-46 Nm)	
3	91123126	1	STEERING CONTROL VALVE	
3	91144190	1	STEERING CONTROL VALVE SEAL KIT	
4	2130404	1	ADAPTOR, 90, (includes o-ring)	
5	4761600	2	LOCKWASHER	
6	0641606	2	HEX HD CAPSCREW, 3/8-16X3/4, GR 5, (torque to 30 lb-ft/41 Nm)	
101	91563208	1	STEERING WHEEL, (includes items 102 & 103)	
102	7026477	1	CENTER CAP	
103	7026478	1	SPINNER KNOB	
201	91563226	1	F-N-R SHIFTER, (includes items 202 & 203)	
202	N.S.S.	2	HEX HD CAPSCREW, (torque to 30-35 lb-ft/41-47 Nm)	
203	N.S.S.	1	CLAMP SET	
301	0641608	2	HEX HD CAPSCREW, 3/8-16X1, GR5, (torque to 40 lb-ft/55 Nm)	
302	4711600	2	WASHER, 3/8	
303	0100011	AR	LOCTITE 242	
401		Ref	SHIFTER DECAL, (See DECALS SECTION for Breakdown)	

SECTION 7 - CONTROLS

FIGURE 7-4. BOOM JOYSTICK



PAL2001

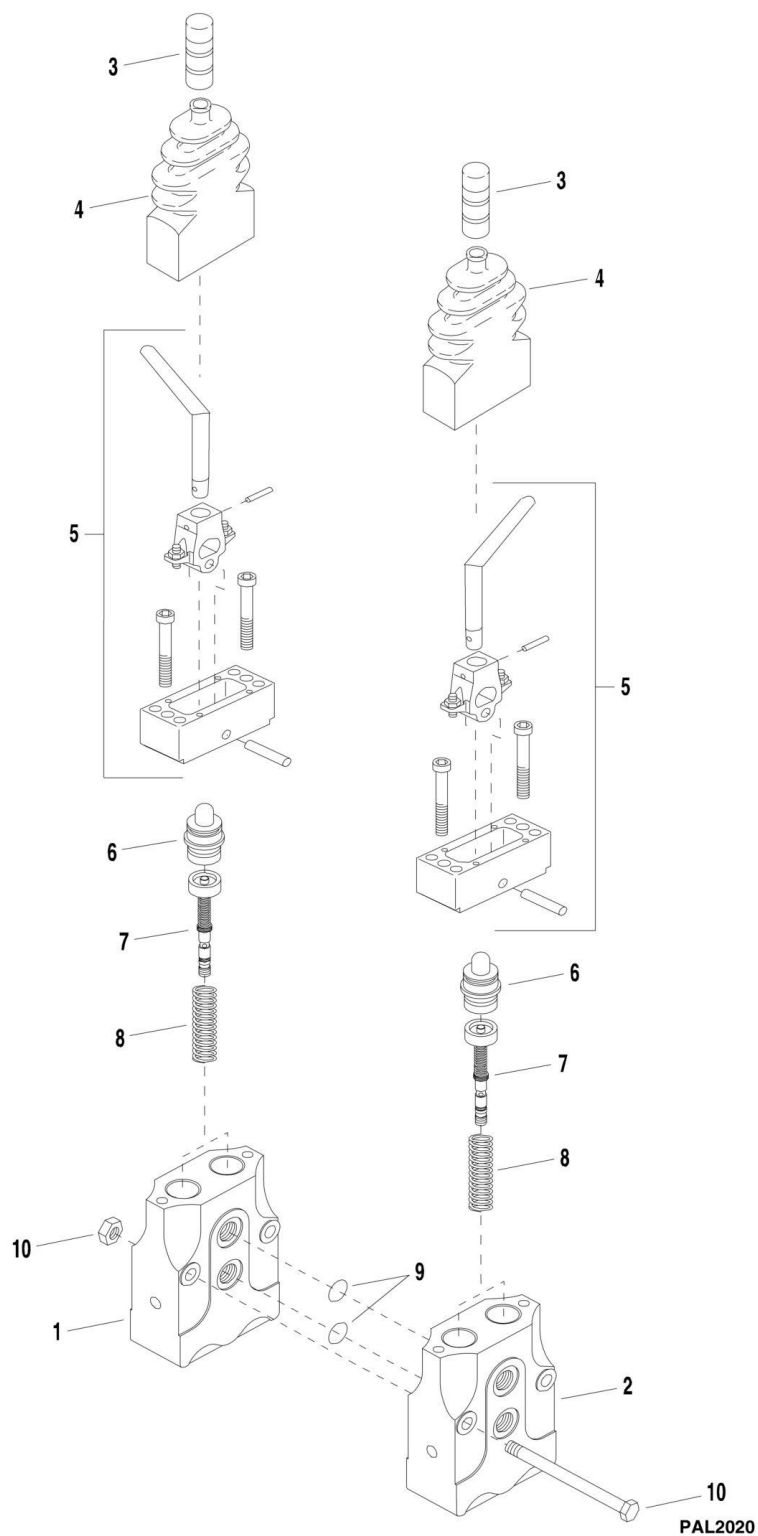
SECTION 7 - CONTROLS

FIGURE 7-4. BOOM JOYSTICK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91513212	1	BOOM JOYSTICK, (includes items 1 thru 19)	
1	91404325	1	GRIP ASSY	
2	91404011	1	BENT LEVER KIT, (includes items 3 & 4)	
3	N.S.S.	1	SPRING PIN	
4	N.S.S.	1	HEX NUT	
5	80364095	1	BOOT	
6	80264138	1	CARDON KIT, (includes item 7)	
7	N.S.S.	1	SHIM	
8	91404013	1	RETAINING PLATE	
9	91404016	1	UPPER BODY, (includes item 10)	
10	N.S.S.	AR	LOWER BODY	
11	Kit K1	1	O-RING	
12	Kit K1	2	DOWEL PIN	
13	Kit K1	1	O-RING	
14	Kit K1	1	SCREW ASSY	
15	Kit K1	1	O-RING	
16	80934498	4	PLUNGER AND GUIDE KIT	
17	91514224	4	REGULATING UNIT	
18	91504028	1	SPRING, (ports 1 & 3), (pack of two)	
18	91504029	1	SPRING, (ports 2 & 4), (pack of two)	
19	80264139	1	GROMMET WITH CABLE TIE KIT	
20		Ref	RH DASH PANEL, (See CAB SECTION for Breakdown)	
21		Ref	TILT RHEOSTAT SWITCH, (See ELECTRICAL SECTION for Breakdown)	
K1	91404326	AR	SEAL KIT, (includes items 11 thru 15)	

SECTION 7 - CONTROLS

FIGURE 7-5. OUTRIGGER AND FRAME LEVEL/AUXILIARY CONTROLLER



SECTION 7 - CONTROLS

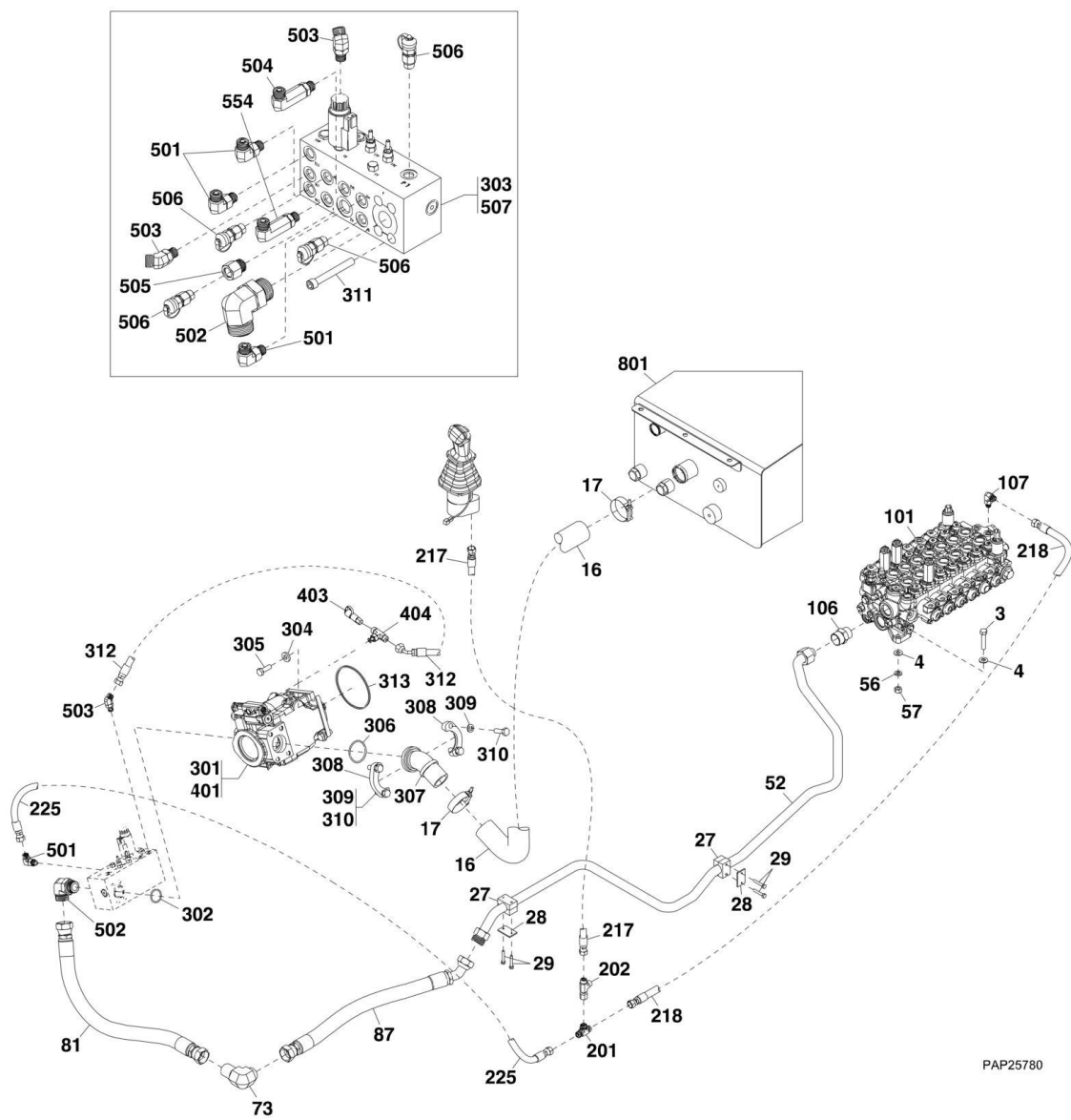
FIGURE 7-5. OUTRIGGER AND FRAME LEVEL/AUXILIARY CONTROLLER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91563200	2	HYDRAULIC CONTROLLER - OUTRIGGER AND FRAME LEVEL/AUX, (includes all items)	A
1	91563201	1	HYDRAULIC CONTROLLER, (includes one each of items 3 thru 8)	
2	7026741	1	HYDRAULIC CONTROLLER, (includes one each of items 3 thru 8)	
3	91504030	2	GRIP	
4	91504031	2	RUBBER BOOT	
5	7026739	2	LEVER OPERATION KIT	
6	80934498	2	PLUNGER KIT	
7	7026740	2	REGULATING UNIT KIT	
8	91504029	2	RETURN SPRING	
9	7026742	2	O-RING	
10	7026743	1	BOLT AND NUT KIT	

SECTION 8 - HYDRAULIC CIRCUITS

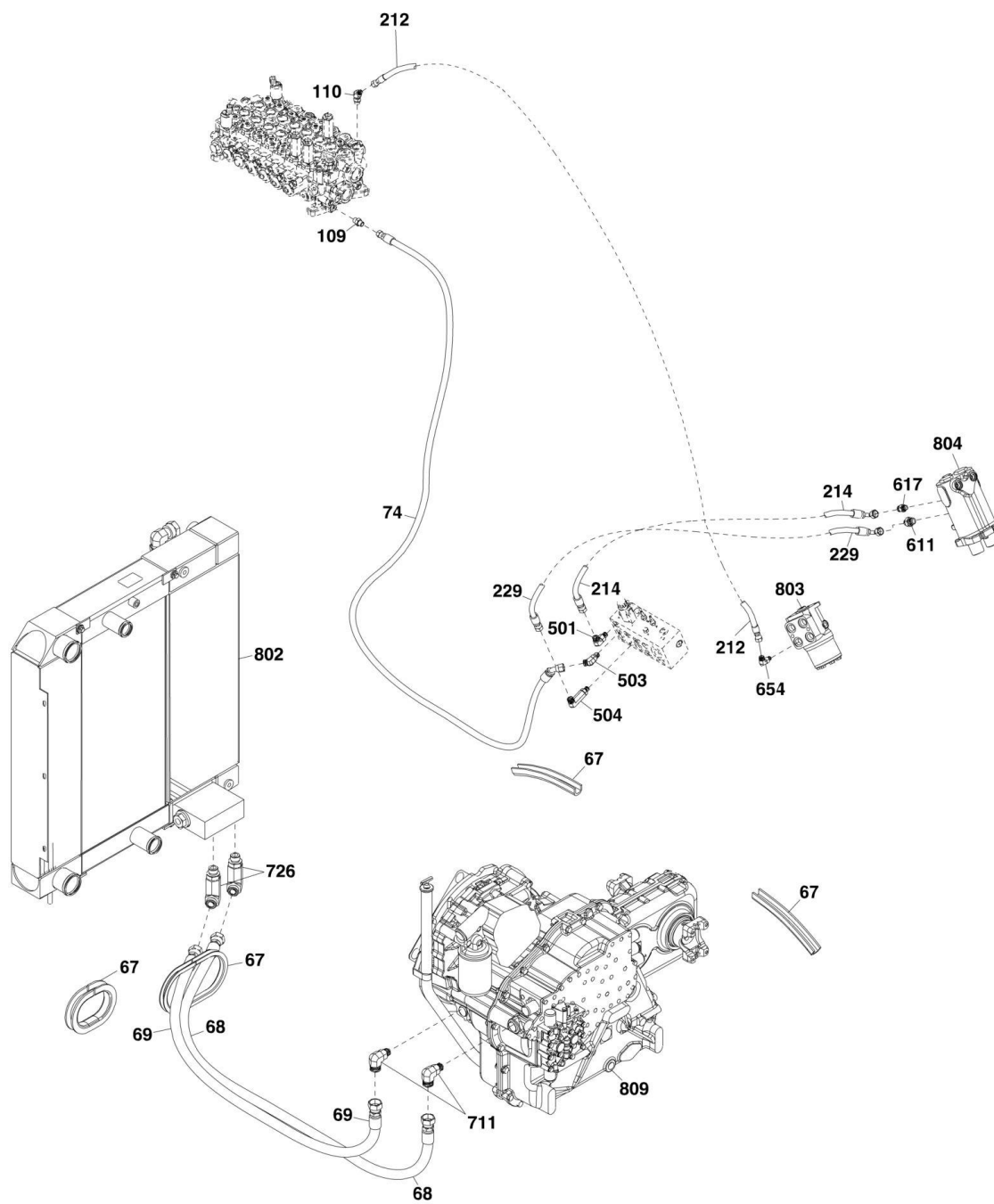
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-1. SUPPLY CIRCUIT



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SECTION 8 - HYDRAULIC CIRCUITS



SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-1. SUPPLY CIRCUIT

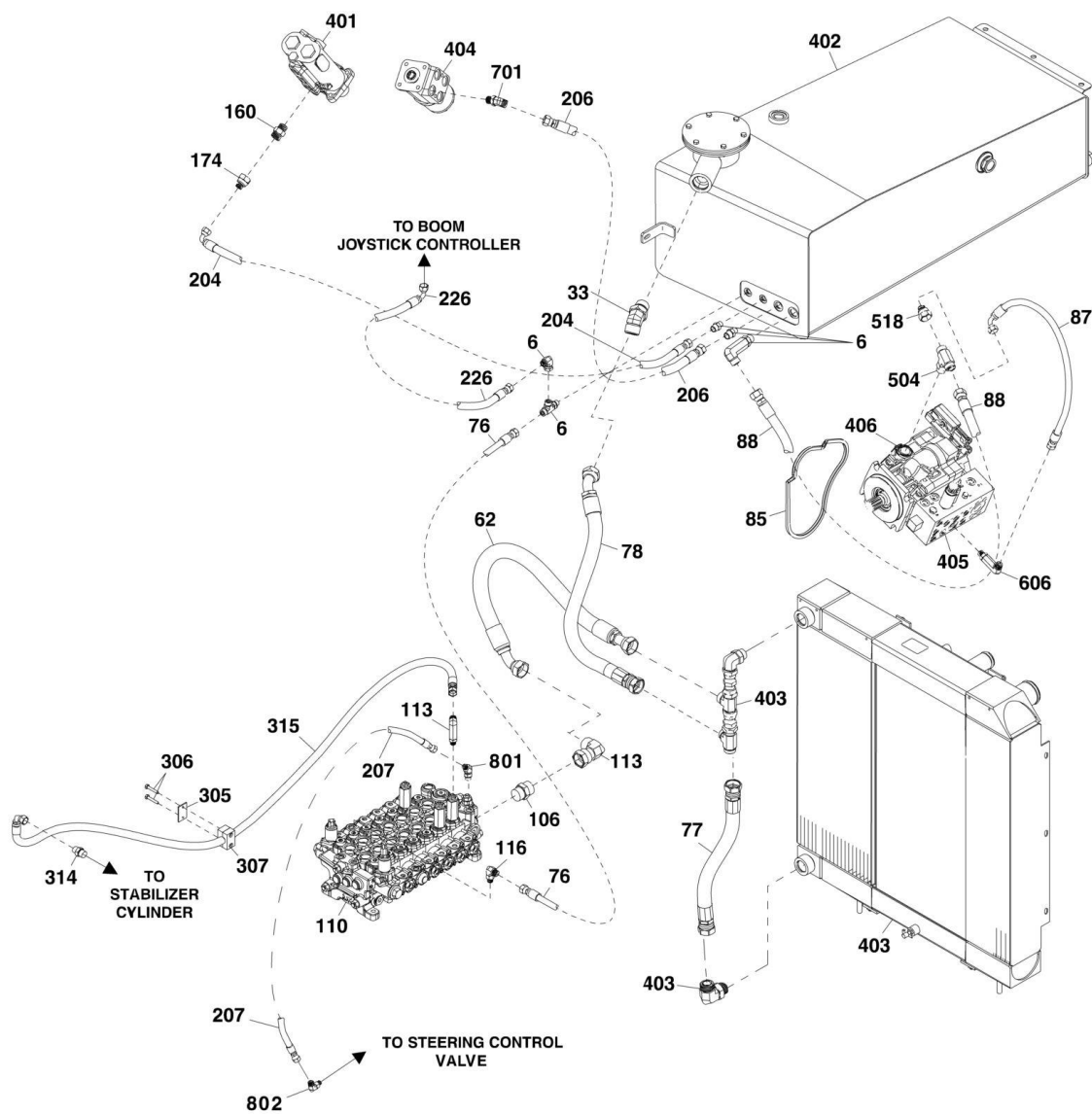
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
3	0641614	4	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5	
4	4711600	8	WASHER, 3/8	
16	1001139081	1	HOSE	
17	90028720	2	CLAMP	
27	77133073	2	CLAMP SET	
28	77133052	2	COVER PLATE	
29	0641412	4	HEX HD CAPSCREW, 1/4-20X1-1/2, GR5	
52	1001125404	1	TUBE ASSY	
56	4761600	4	LOCKWASHER, 3/8	
57	3311601	4	HEX NUT, 3/8-16X, GR2	
67	90206203	50 in	TRIM	
68	1001125119	1	HOSE ASSY	
69	1001125128	1	HOSE ASSY	
73	2171216	1	ADAPTER, 90, (includes o-ring)	
74	1001130679	1	HOSE ASSY	
81	1001136631	1	HOSE ASSY	
87	1001136630	1	HOSE ASSY	
101		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
106	2111616	1	STRAIGHT FITTING, (includes o-ring)	
107	2130606	1	ADAPTER, 90, (includes o-ring)	
109	2110406	1	STRAIGHT FITTING, (includes o-ring)	
110	2130810	1	ADAPTER, 45, (includes o-ring)	
201		Ref	TEE FITTING, (See DUMP CIRCUIT for Breakdown)	
202		Ref	TEE FITTING, (See DUMP CIRCUIT for Breakdown)	
212	1001096393	1	HOSE ASSY	
214	1001144724	1	HOSE ASSY	
217		Ref	HOSE ASSY, (See DUMP CIRCUIT for Breakdown)	
218	1001097928	1	HOSE ASSY	
225	1001115999	1	HOSE ASSY	
229	1001116011	1	HOSE ASSY	
	1001130288	Ref	HYDRAULIC PUMP INSTALLATION, (not available to order, see items 301 thru 313 for service)	C
301	1001130707	Ref	HYDRAULIC PUMP ASSY, (includes items 401 thru 405)	D
302	91083106	1	O-RING	
303	1001130440	Ref	HYDRAULIC MANIFOLD VALVE INSTALLATION, (not available to order, see items 501 thru 507 & 554 for service)	C
304	4891800	4	WASHER, 1/2	
305	0701215	4	HEX HD CAPSCREW, M12X35, GR8.8	
306	3790228	1	O-RING	
307	1001107814	1	PIPE, 45	
308	8546407	2	#32 FLANGE	
309	4761800	4	LOCKWASHER, 1/2	
310	0641812	4	HEX HD CAPSCREW, 1/2-13X1-1/2, GR5	
311	3931648	4	SOCKET HD CAPSCREW, 3/8-16X3	
312	1001145543	1	HOSE ASSY	
313	80933113	1	O-RING	
401		Ref	PISTON PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
402		Ref	TEE FITTING, (not shown), (See DUMP CIRCUIT for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
403	1001103069	1	COUPLING,TEST ORFS 9/16-18 UNF	
404	2170404	1	TEE FITTING	
405		Ref	REDUCER ADAPTER, (not shown), (See DUMP CIRCUIT for Breakdown)	
501	2130606	3	ADAPTER, 90, (includes o-ring)	
502	2131616	1	ADAPTER, 90, (includes o-ring)	
503	2150606	1	ADAPTER, 45, (includes o-ring)	
504	2170206	1	ADAPTER, 90, (includes o-ring)	
505		Ref	STRAIGHT FITTING, (See DUMP CIRCUIT for Breakdown)	
506	77133089	4	CHECK FITTING	
507		Ref	HYDRAULIC MANIFOLD VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
554		Ref	ADAPTER, 90, (See DUMP CIRCUIT for Breakdown)	
611		Ref	STRAIGHT FITTING, (See CONTROLS SECTION for Breakdown)	
617		Ref	STRAIGHT FITTING, (See CONTROLS SECTION for Breakdown)	
654	2150808	1	ADAPTER, 90, (includes o-ring)	
711	2131210	2	ADAPTER, 90, (includes o-ring)	
726	2170212	2	ADAPTER, 90, (includes o-ring)	
801		Ref	HYDRAULIC TANK, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
802		Ref	RADIATOR, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
803		Ref	STEERING VALVE, (See CONTROLS SECTION for Breakdown)	
804		Ref	BRAKE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
805		Ref	BOOM JOYSTICK, (See CONTROLS SECTION for Breakdown)	
809		Ref	TRANSMISSION, (See DRIVE TRAIN SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-2. DUMP CIRCUIT



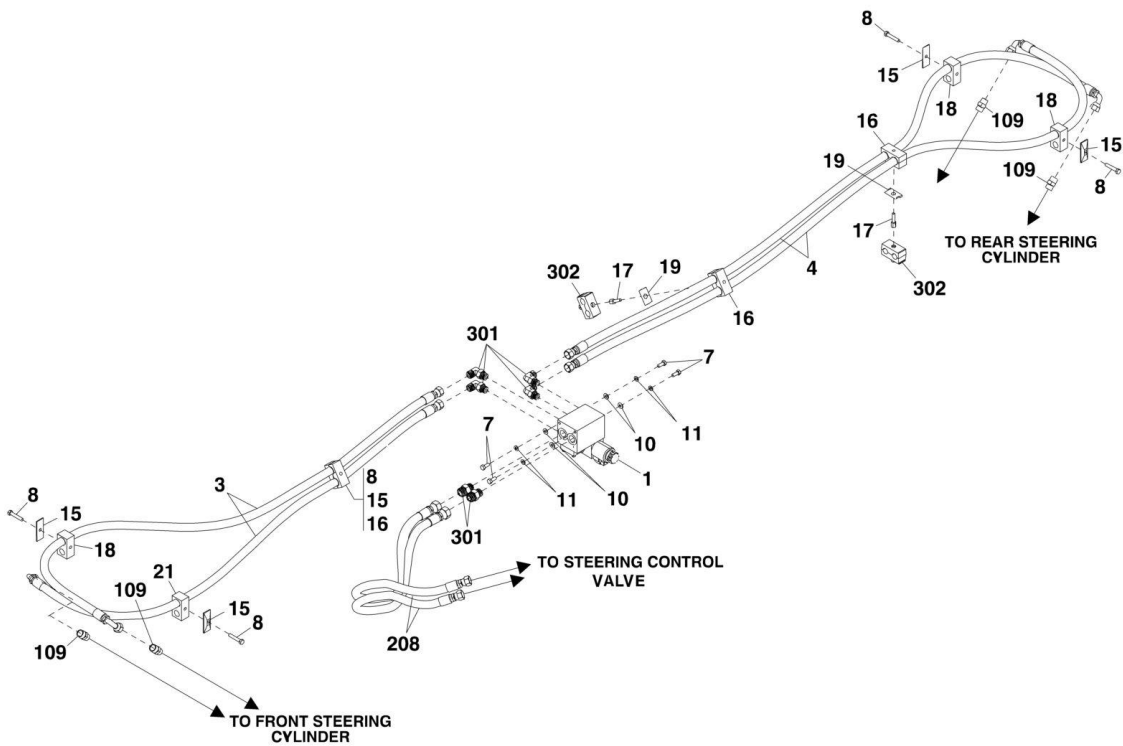
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-2. DUMP CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
6		Ref	HYDRAULIC TANK FITTINGS, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
33	2151620	1	ADAPTER, 45, (includes o-ring)	
62	1001130127	1	HOSE ASSY	
76	1001122608	1	HOSE ASSY	
77	1001130065	1	HOSE ASSY	
78	1001161806	1	HOSE ASSY	
85	90206202	37 in	TRIM	
87	1001141211	1	HOSE ASSY	
88	1001141212	1	HOSE ASSY	
106	2111616	1	STRAIGHT FITTING, (includes o-ring)	
110		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
113	2172116	1	ADAPTER, 90, (includes o-ring)	
116	2170206	1	ADAPTER, 90, (includes o-ring)	
160		Ref	STRAIGHT FITTING, (See CONTROLS SECTION for Breakdown)	
174		Ref	REDUCER ADAPTER, (See CONTROLS SECTION for Breakdown)	
204	1001137280	1	HOSE ASSY	
206	1001137281	1	HOSE ASSY	
207	1001096394	1	HOSE ASSY	
226	1001137259	1	HOSE ASSY	
305	77133052	1	COVER PLATE	
306	0641412	2	HEX HD CAPSCREW, 1/4-20X1-1/2, GR5	
307	77133053	1	CLAMP SET	
314	2110608	1	STRAIGHT FITTING, (includes o-ring)	
315	1001095431	1	HOSE ASSY	
401		Ref	BRAKE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
402		Ref	HYDRAULIC TANK, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
403		Ref	RADIATOR, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
404		Ref	STEERING VALVE, (See CONTROLS SECTION for Breakdown)	
405		Ref	HYDRAULIC MANIFOLD VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
406		Ref	PISTON PUMP, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
504	2170410	1	TEE FITTING, (includes o-ring)	
518	2221244	1	REDUCER ADAPTER, (includes o-ring)	
606	2170206	1	ADAPTER, 90, (includes o-ring)	
701	2150808	1	ADAPTER, 45, (includes o-ring)	
801	2150406	1	ADAPTER, 45, (includes o-ring)	
802	2130404	1	ADAPTER, 90, (includes o-ring)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-3. STEER SELECT CIRCUIT



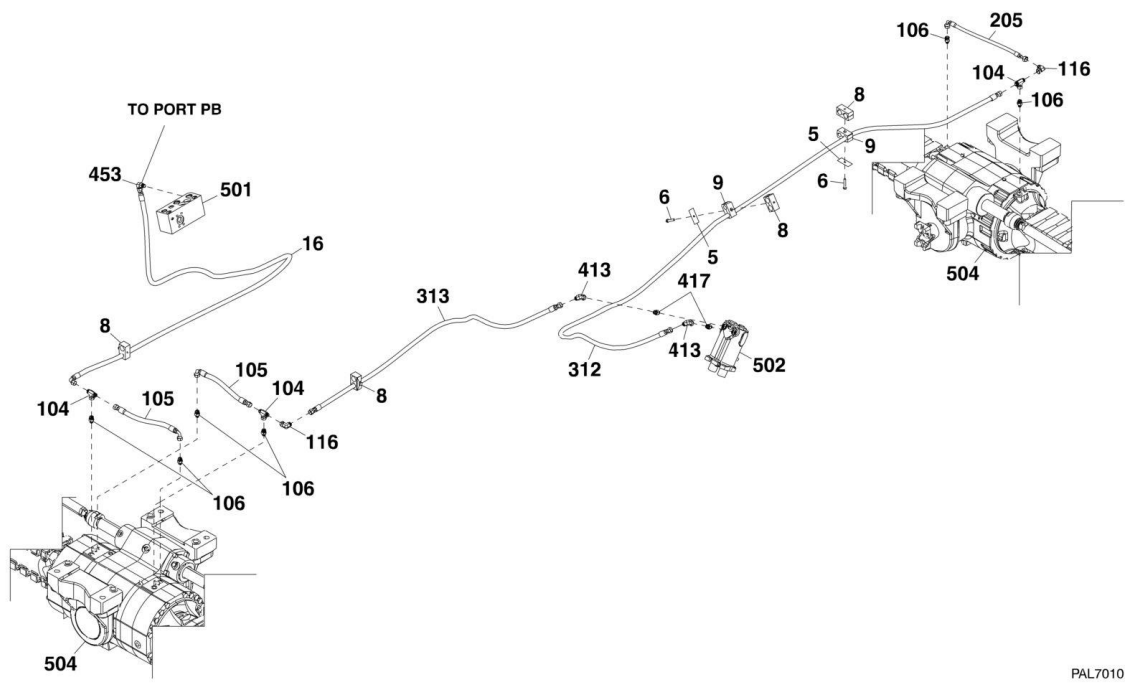
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-3. STEER SELECT CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	STEER SELECT VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
3	1001095434	2	HOSE ASSY	
4	1001095436	2	HOSE ASSY	
7	0641506	4	HEX HD CAPSCREW, 5/16-18X3/4, GR5	
8	0641514	5	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
10	4711500	4	WASHER, 5/16	
11	4761500	4	LOCKWASHER, 5/16	
15	77133137	5	COVER PLATE	
16	77133279	3	CLAMP SET	
17	77133306	2	STACKING BOLT	
18	83663119	3	CLAMP SET	
19	77133390	2	SAFETY CLIP	
21	77323029	1	CLAMP SET	
22	86683122	AR	TIEWRAP (Not Shown)	
109	2110808	4	STRAIGHT FITTING, (includes o-ring)	
208	1001096390	2	HOSE ASSY	
301		Ref	STEER SELECT ADAPTERS, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
302		Ref	CLAMP SET, (See SERVICE BRAKE CIRCUIT for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-4. SERVICE BRAKE CIRCUIT



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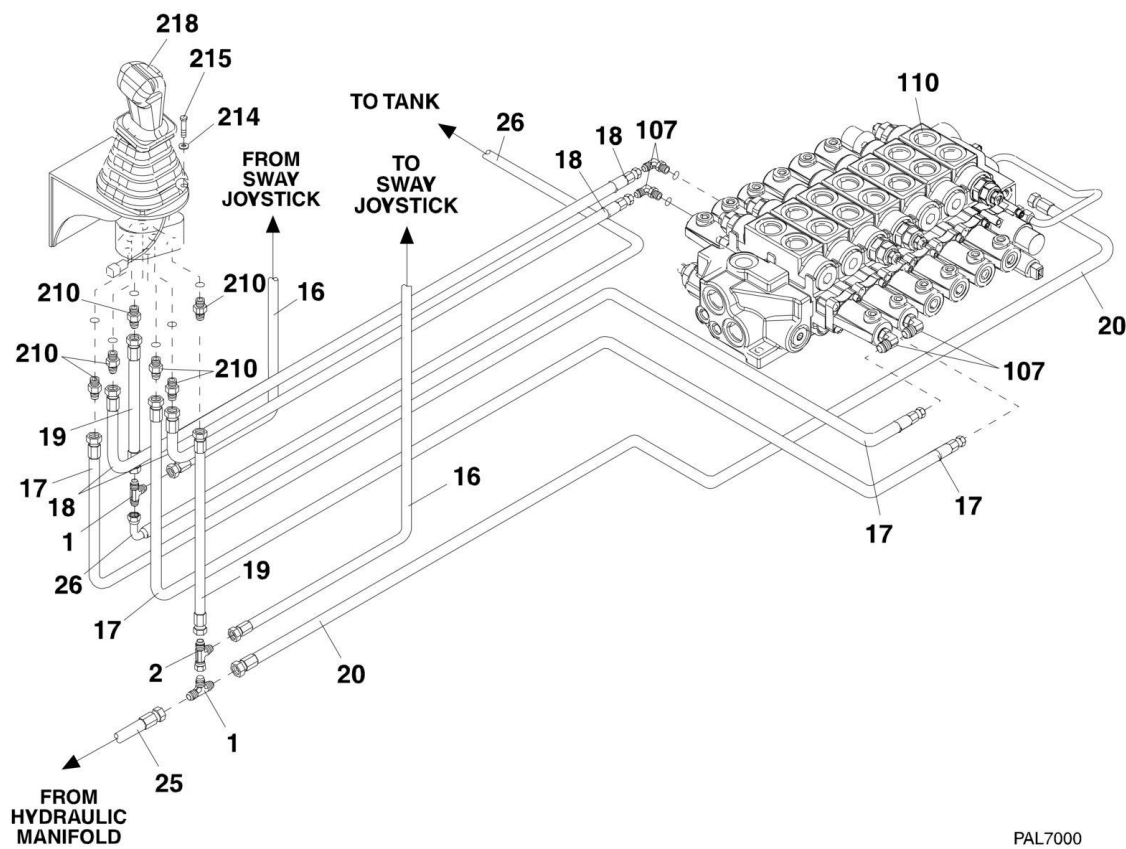
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-4. SERVICE BRAKE CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
5	77133137	2	COVER PLATE	
6	0641514	2	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
8		Ref	CLAMP SET, (See DUMP CIRCUIT for Breakdown)	
9	77133136	2	TWIN CLAMP	
16	1001137231	1	HOSE ASSY	
104	2170806	3	TEE FITTING, (includes o-ring)	
105	1001097810	2	HOSE ASSY	
106	2144605	6	STRAIGHT FITTING, (includes o-ring)	
116	2172106	2	ADAPTER, 90, (includes o-ring)	
205	1001102509	1	HOSE ASSY	
312	1001096389	1	HOSE ASSY	
313	1001096388	1	HOSE ASSY	
413	2172106	2	ADAPTER, 90, (includes o-ring)	
417	2144605	2	STRAIGHT FITTING, (includes o-ring)	
453	2130606	1	ADAPTER, 90, (includes o-ring)	
501		Ref	HYDRAULIC MANIFOLD VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
502		Ref	BRAKE VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
503		Ref	FRONT AXLE, (See DRIVE TRAIN SECTION for Breakdown)	
504		Ref	REAR AXLE, (See DRIVE TRAIN SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-5. BOOM JOYSTICK CIRCUIT



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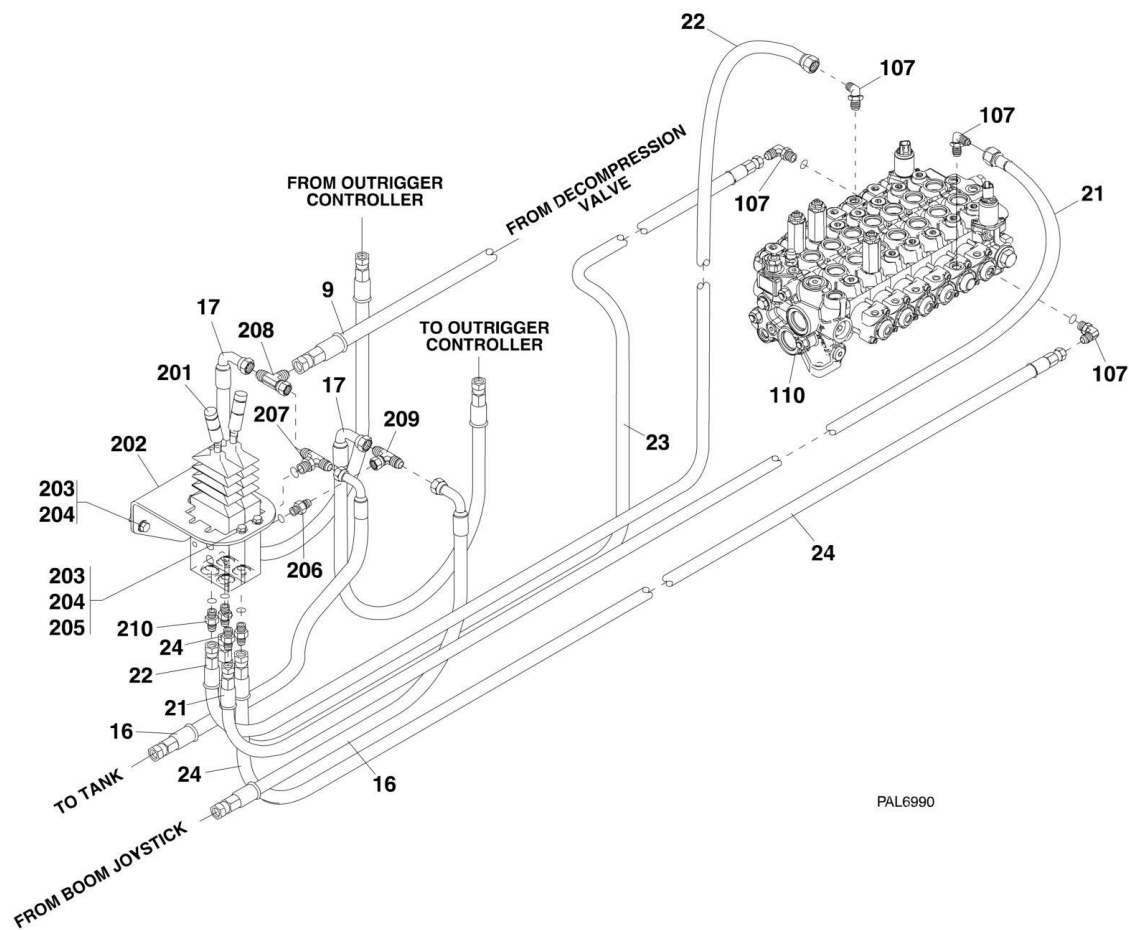
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-5. BOOM JOYSTICK CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2170506	2	TEE FITTING, (includes o-ring)	
2	2170706	1	TEE FITTING, (includes o-ring)	
16		Ref	HOSE ASSY, (See FRAME LEVEL/AUXILIARY CONTROLLER for Breakdown)	
17	1001097924	2	HOSE ASSY	
18	1001097925	2	HOSE ASSY	
19	1001097926	2	HOSE ASSY	
20		Ref	HOSE ASSY, (See SUPPLY CIRCUIT for Breakdown)	
25		Ref	HOSE ASSY, (See SUPPLY CIRCUIT for Breakdown)	
26		Ref	HOSE ASSY, (See DUMP CIRCUIT for Breakdown)	
107	2130406	4	ADAPTER, 90, (includes o-ring)	
110		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
210	2110406	6	STRAIGHT FITTING, (includes o-ring)	
214	4751400	4	WASHER, 1/4	
215	0641408	4	HEX HD CAPSCREW, 1/4-20X1, GR5	
218		Ref	BOOM JOYSTICK, (See CONTROLS SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-6. FRAME LEVEL/AUXILIARY CONTROLLER



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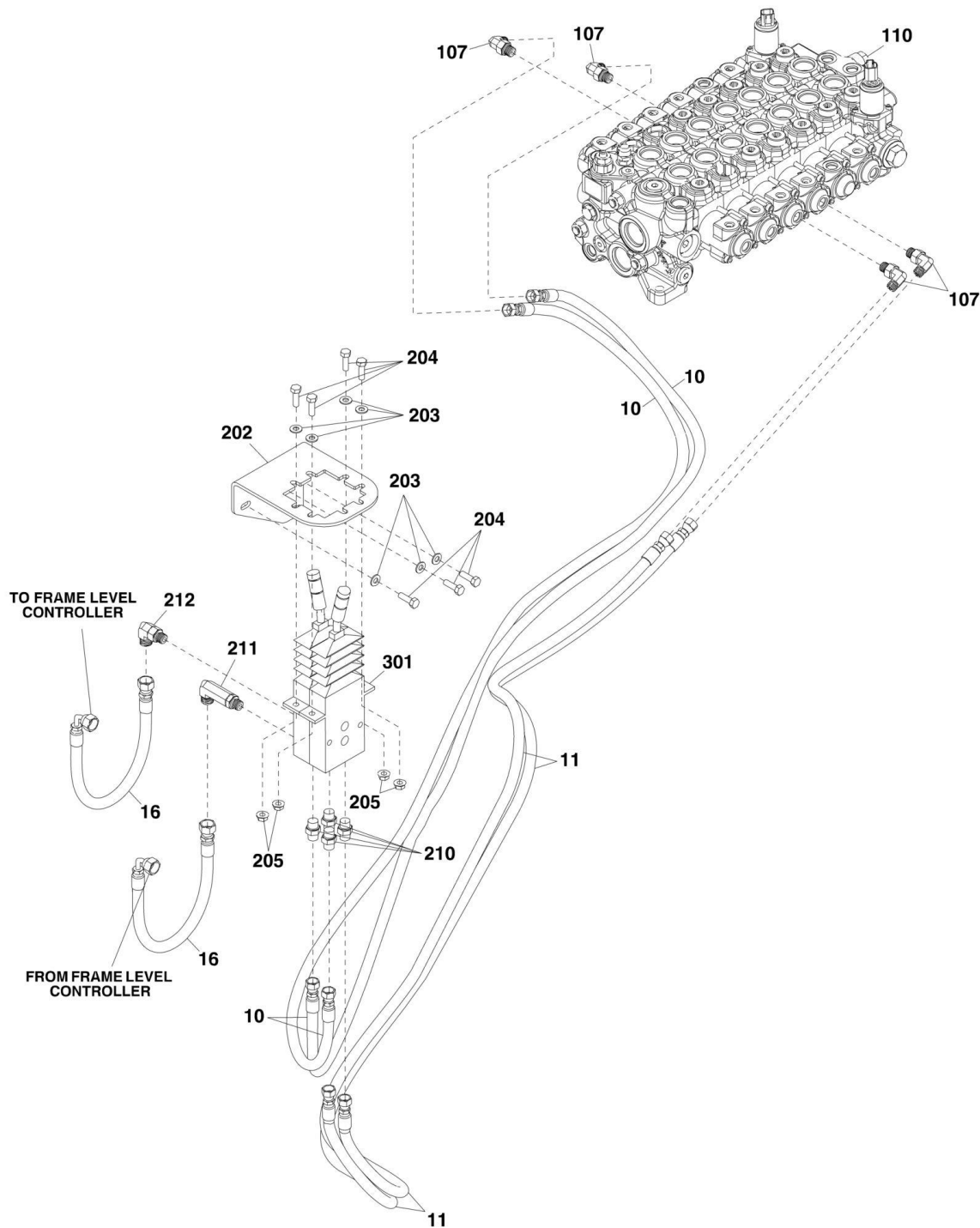
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-6. FRAME LEVEL/AUXILIARY CONTROLLER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
9		Ref	DECOMPRESSION VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
16	1001096396	2	HOSE ASSY	
17		Ref	HOSE ASSY, (See OUTRIGGER CONTROLLER for Breakdown)	
21	1001097930	1	HOSE ASSY	
22	1001097931	1	HOSE ASSY	
23	1001097932	1	HOSE ASSY	
24	1001097933	1	HOSE ASSY	
107	2130406	4	ADAPTER, 90, (includes o-ring)	
110		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
201		Ref	FRAME LEVEL/AUX CONTROLLER, (See CONTROLS SECTION for Breakdown)	
202	91561140	1	BRACKET	
203	4711500	7	WASHER, 5/16	
204	0641508	7	HEX HD CAPSCREW, 5/16-18X1, GR5	
205	3311508	4	HEX NUT, 5/16-18	
206	2110606	1	STRAIGHT ADAPTER, (includes o-ring)	
207	2170406	1	TEE FITTING, (includes o-ring)	
208	2170706	1	TEE FITTING, (includes o-ring)	
209	2170806	1	TEE FITTING, (includes o-ring)	
210	2110406	4	STRAIGHT FITTING, (includes o-ring)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-7. OUTRIGGER CONTROLLER



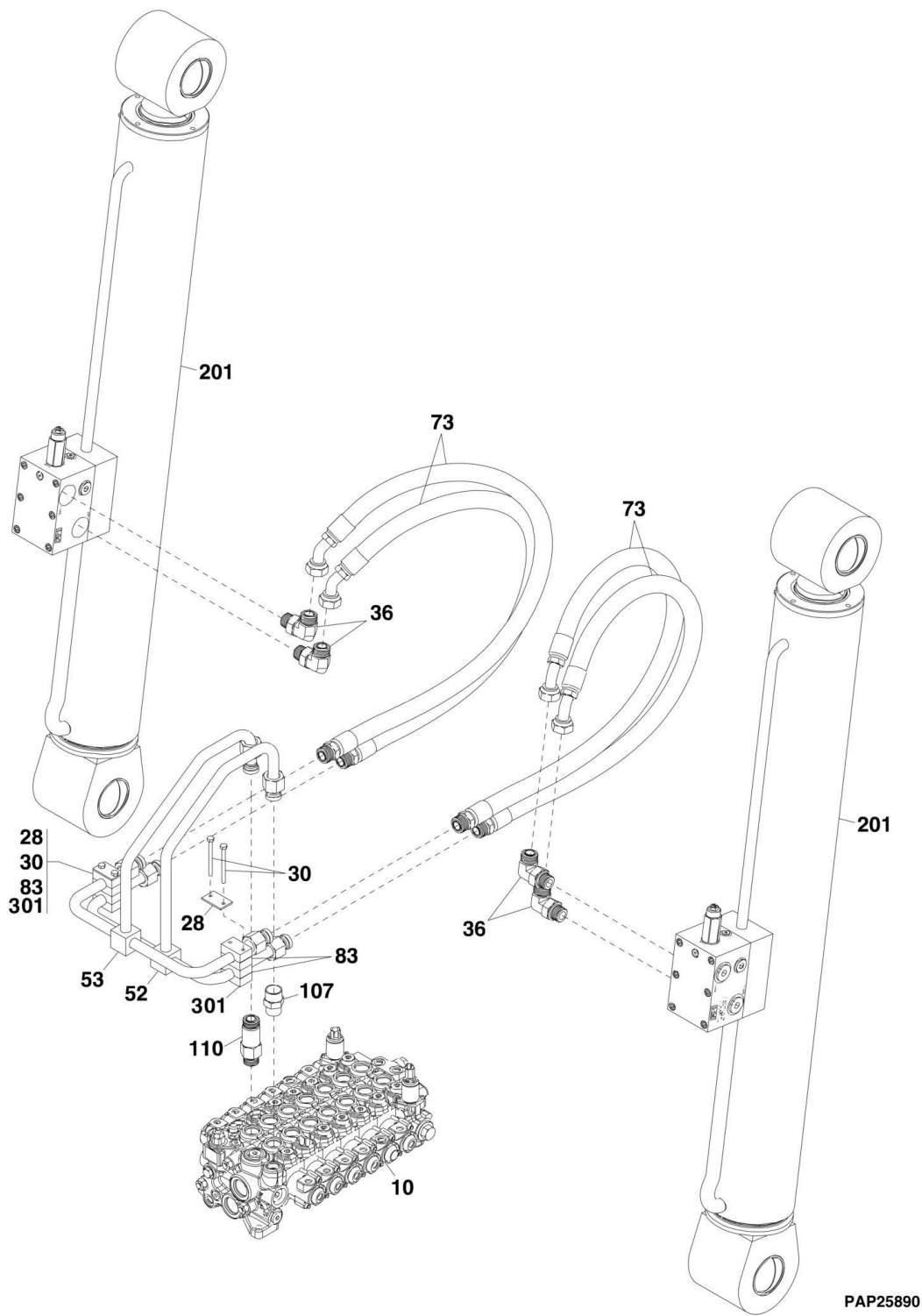
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-7. OUTRIGGER CONTROLLER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
10	1001096386	2	HOSE ASSY	
11	1001096387	2	HOSE ASSY	
16	1001096369	2	HOSE ASSY	
107	2130406	4	ADAPTER, 90, (includes o-ring)	
110		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
202	91561140	1	BRACKET	
203	4711500	7	WASHER, 5/16	
204	0641508	7	HEX HD CAPSCREW, 5/16-18X1, GR5	
205	3311508	4	HEX NUT, 5/16-18	
210	2110406	4	STRAIGHT FITTING, (includes o-ring)	
211	2170206	1	ADAPTER, 90, (includes o-ring)	
212	2130606	1	ADAPTER, 90, (includes o-ring)	
301		Ref	OUTRIGGER CONTROLLER, (See CONTROLS SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-8. LIFT CYLINDER CIRCUIT



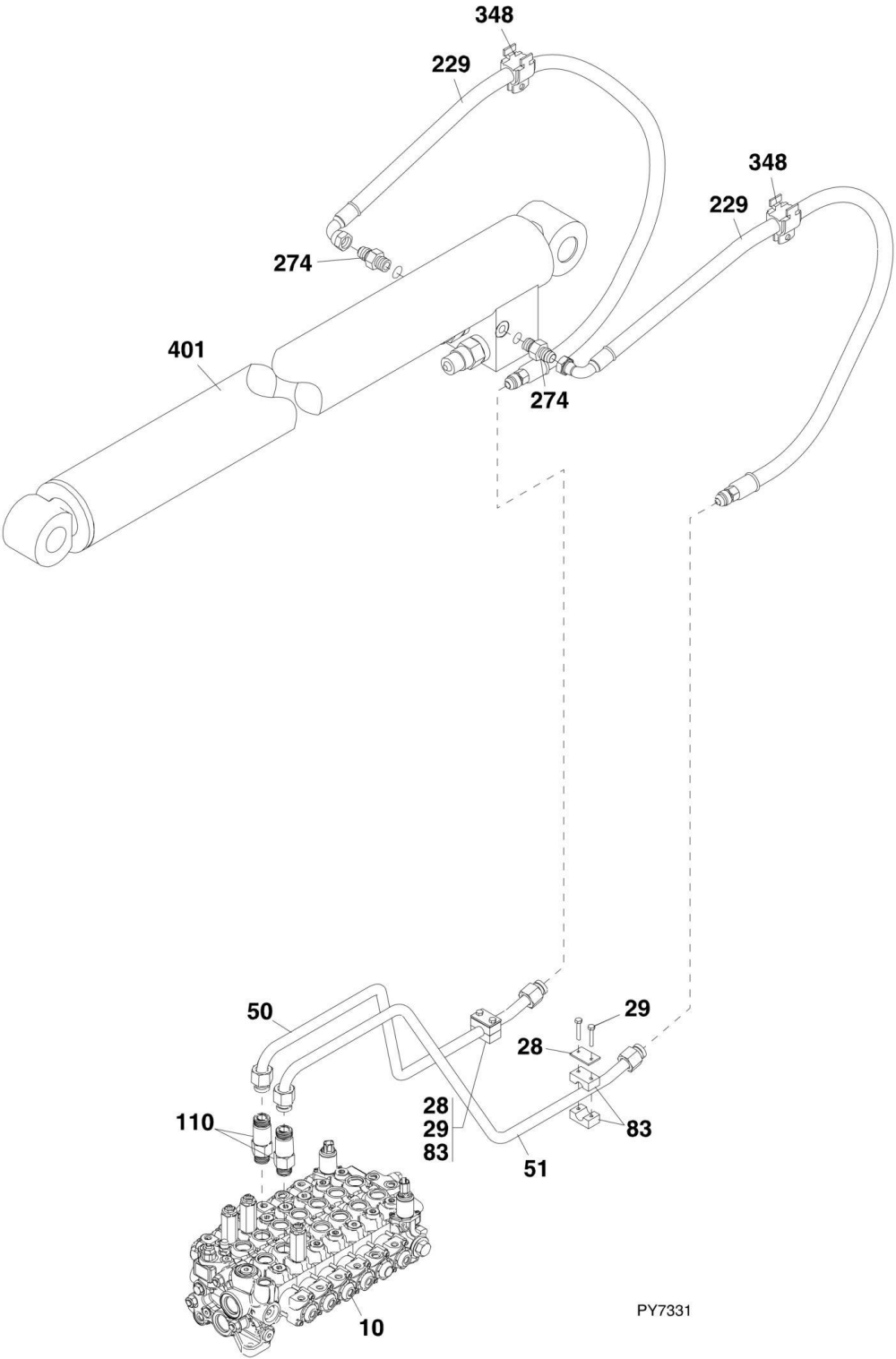
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-8. LIFT CYLINDER CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
10		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
28	77133052	2	COVER PLATE	
30	0641424	4	HEX HD CAPSCREW, 1/4-20X3, GR5	
36	2131212	4	ADAPTER, 90, (includes o-ring)	
52	1001105120	1	TUBE ASSY	
53	1001105121	1	TUBE ASSY	
73	1001102185	4	HOSE ASSY	
83	77133053	2	CLAMP	
107	2111212	1	STRAIGHT FITTING, (includes o-ring)	
110	2170112	1	STRAIGHT FITTING, (includes o-ring)	
201		Ref	LIFT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
301	77133073	2	CLAMP SET	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-9. EXTEND/RETRACT CYLINDER CIRCUIT



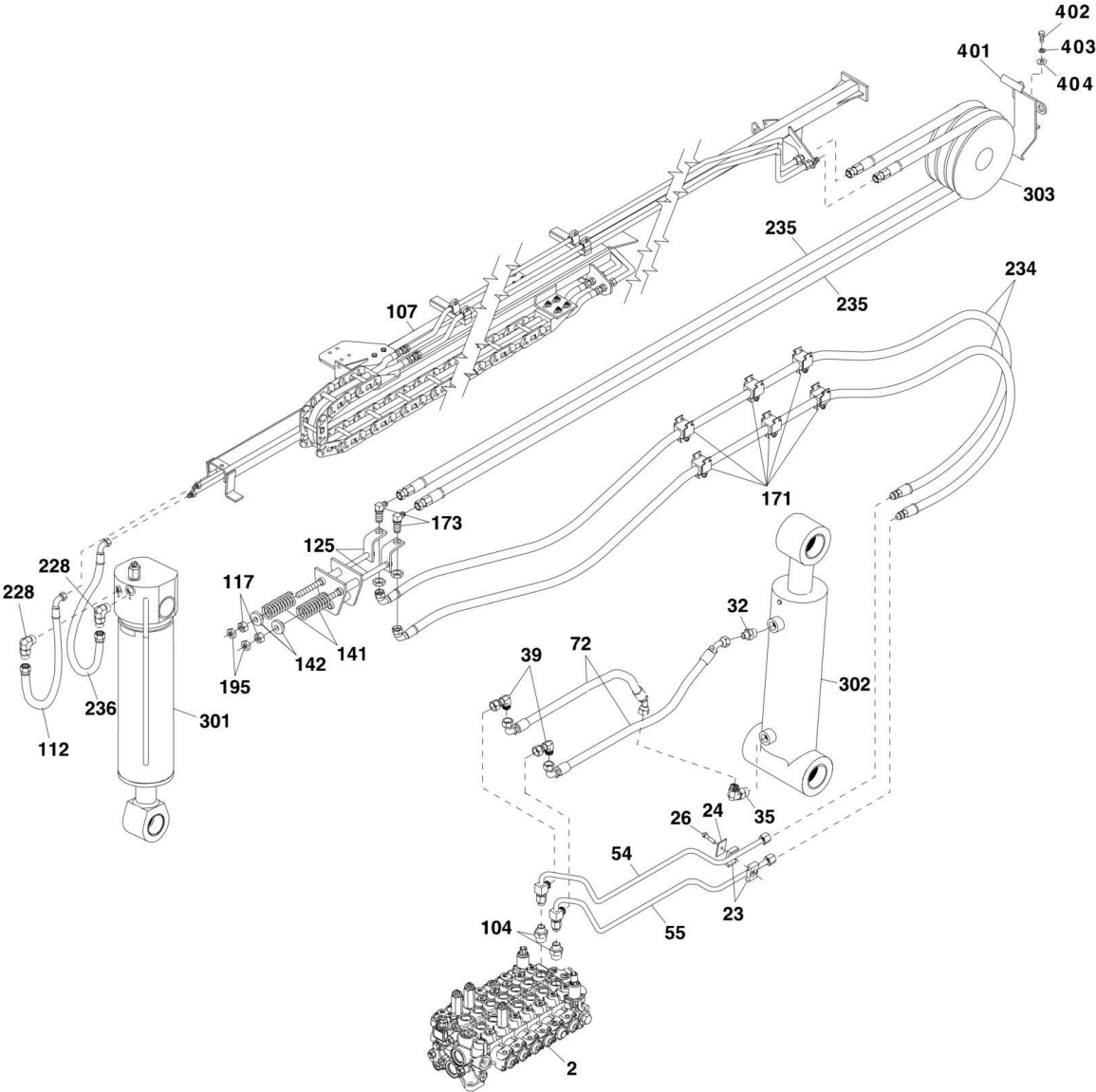
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-9. EXTEND/RETRACT CYLINDER CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
10		Ref	MAIN CONTROL VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
28	77133052	2	PLATE COVER	
29	0641412	4	HEX HD CAPSCREW, 1/4-20X1-1/2, GR5	
50	1001105118	1	TUBE ASSY	
51	1001105119	1	TUBE ASSY	
83	77133053	2	CLAMP SET	
110	2170112	2	STRAIGHT FITTING, (includes o-ring)	
229	1001097036	2	HOSE ASSY	
274	2111212	2	STRAIGHT FITTING, (includes o-ring)	
348	90205792	2	CUSHION CLAMP	
401		Ref	EXTEND/RETRACT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-10. TILT CYLINDER AND COMPENSATION CYLINDER CIRCUIT



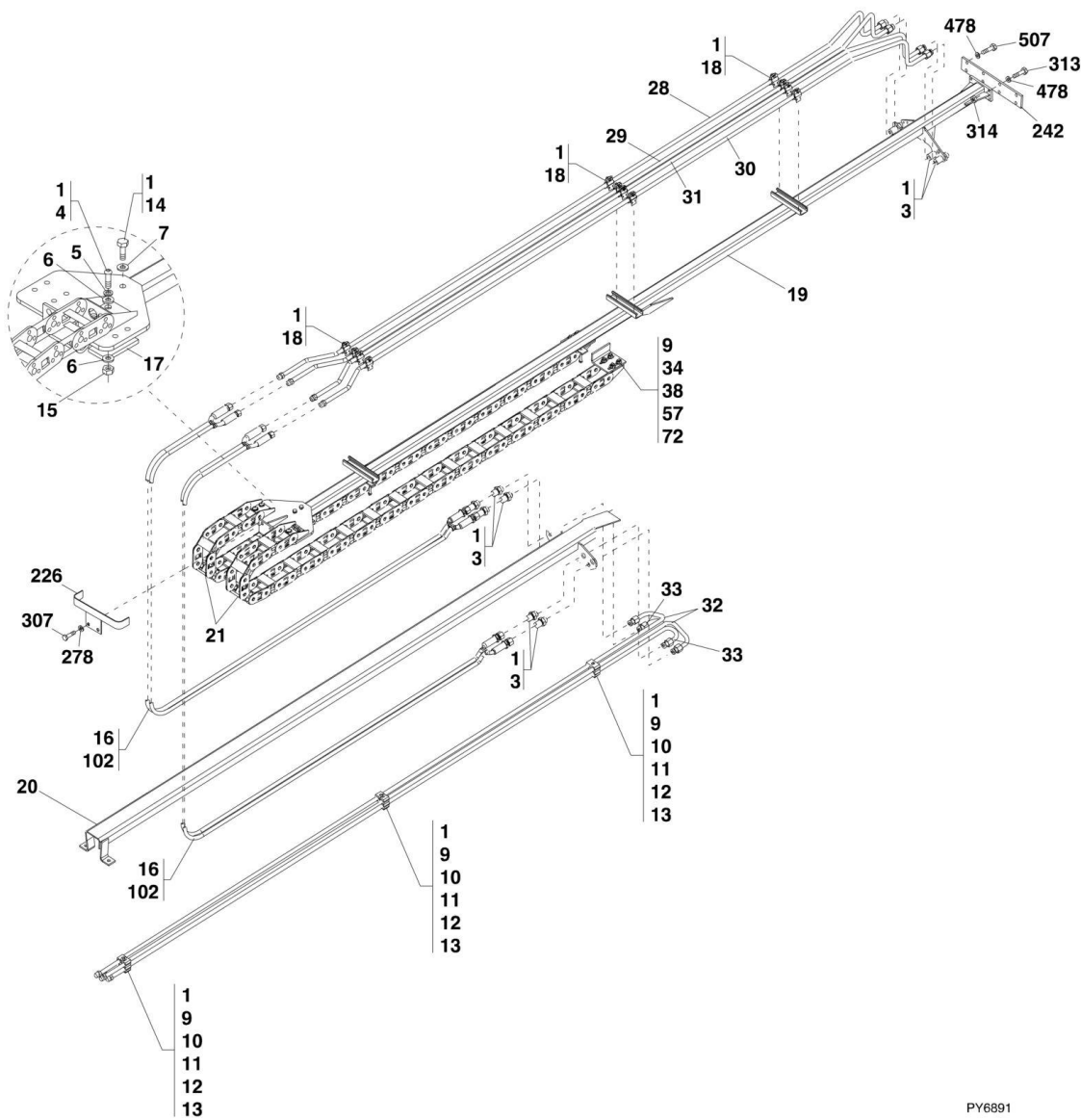
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-10. TILT CYLINDER AND COMPENSATION CYLINDER CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
2		Ref	MAIN CONTROL VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
23	77133168	1	CLAMP SET	
24	77133140	1	COVER PLATE	
26	0641511	1	HEX HD CAPSCREW, 5/16-18X1-3/8, GR5	
32	2110810	1	STRAIGHT FITTING, (includes o-ring)	
35	2130810	1	ADAPTER, 90, (includes o-ring)	
39	2172108	2	ADAPTER, 90, (includes o-ring)	
54	1001105122	1	TUBE ASSY	
55	1001105123	1	TUBE ASSY	
72	1001165230	2	HOSE ASSY	
104	2110812	2	STRAIGHT FITTING, (includes o-ring)	
107		Ref	BOOM HYDRAULIC ASSY, (See BOOM HYDRAULIC ASSEMBLY for Breakdown)	
112	1001098180	1	HOSE ASSY	
117	88501008	2	HEX NUT, 1/2-13	
125	1001091306	2	HOSE TENSION ROD	
141	91123054	2	COMPRESSION SPRING	
142	91121134	2	SPRING RETAINER	
171	90207464	6	CUSHION CLAMP	
173	2171208	2	ADAPTER, 90	
195	88501108	2	HEX JAM NUT, 1/2-13	
228	2131010	2	ADAPTER, 90, (includes o-ring)	
234	1001165212	2	HOSE ASSY	
235	1001097038	2	HOSE ASSY	
236	1001098179	1	HOSE ASSY	
301		Ref	TILT CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
302		Ref	COMPENSATION CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
303		Ref	HOSE SHEAVE, (See AUXILIARY HYDRAULIC CIRCUIT for Breakdown)	
401	1001157029	1	BRACKET	
402	0641607	3	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
403	4761600	3	WASHER	
404	4751600	3	WASHER	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-11. BOOM HYDRAULIC ASSEMBLY



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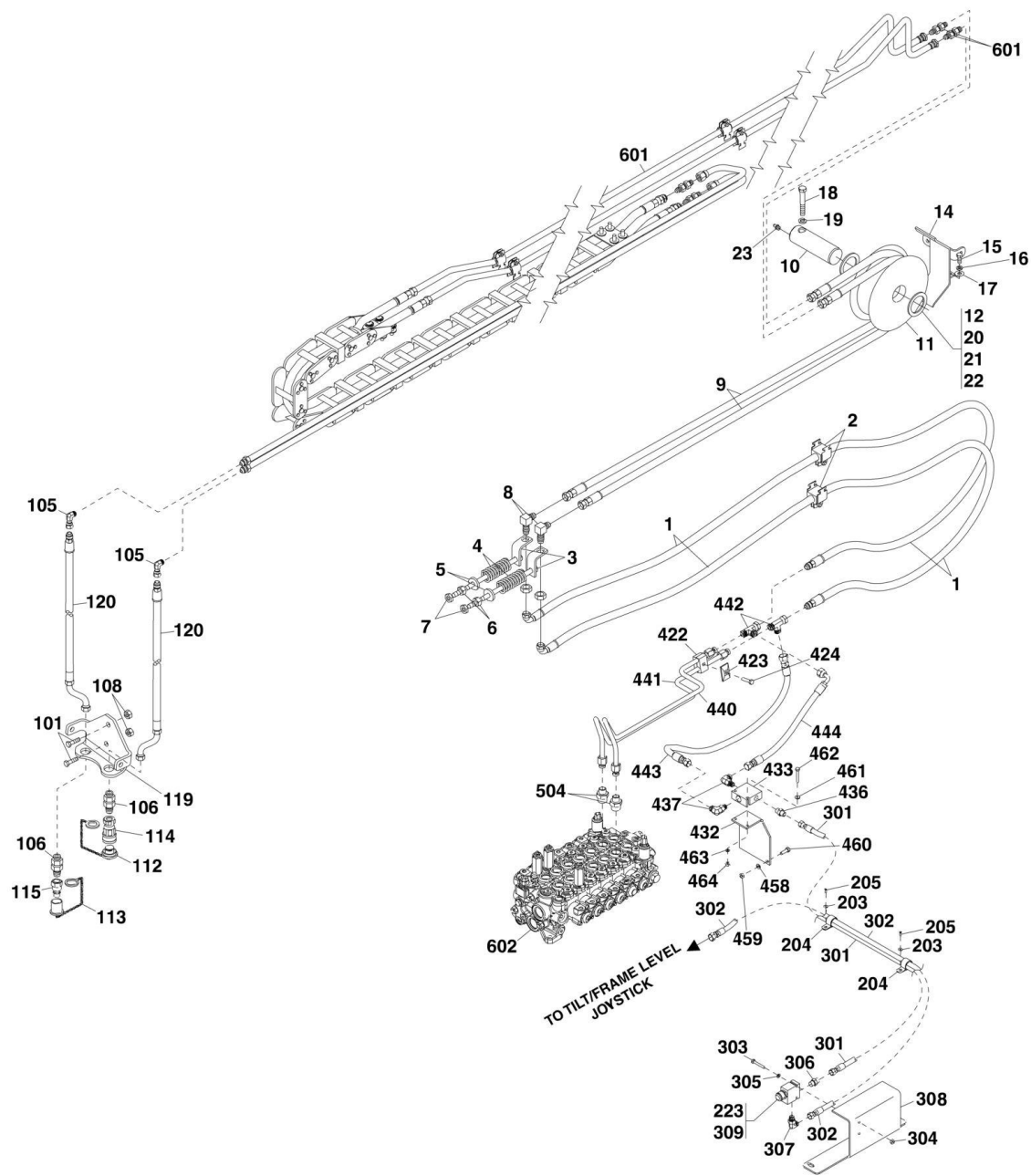
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-11. BOOM HYDRAULIC ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001090033	1	BOOM HYDRAULIC SUB ASSEMBLY, (INCLUDES ITEMS 1 THRU 33)	H
1	0100011	AR	LOCTITE 242	
3	2171110	8	STRAIGHT FITTING, (includes o-ring)	
4	3900232	16	BUTTON HD SCREW, 3/8-16x1 1/4	
5	4711600	16	WASHER, 3/8	
6	4751600	32	WASHER, 3/8	
7	4761600	2	LOCKWASHER, 3/8	
8	14404793	AR	MYSTIK TETRIMOLY GREASE	
9	77133139	6	CLAMP SET	
10	77133140	3	COVER PLATE	
11	77133177	3	HEX HD CAPSCREW, 3/8-24X1 3/4	
12	77133389	3	STACK BOLT	
13	77133390	3	SAFETY CLIP	
14	0641624	2	HEX HD CAPSCREW, 3/8-24X1 3/4, GR5	
15	88521306	16	HEX LOCKNUT, 1/2-20	
16	90027187	8	TY-WRAP	
17	91033187	1	WEAR PAD	
18	91083217	12	CLAMP, 5/8	
19	1001001524	1	HYDRAULIC CARRIER	
20	1001001525	1	HYDRAULIC CARRIER	
21	1001176342	2	HOSE CARRIER	
28	1001001479	1	TUBE ASSY	
29	1001001480	1	TUBE ASSY	
30	1001001481	1	TUBE ASSY	
31	1001001482	1	TUBE ASSY	
32	1001001477	2	TUBE ASSY	
33	1001001478	2	TUBE ASSY	
102	1001091746	4	HOSE ASSY	
226	1001113692	1	GUIDE BRACKET	
242		Ref	BRACKET, (See BOOM SECTION for Breakdown)	
278	4761600	6	LOCKWASHER	
307	0641610	2	HEX HD CAPSCREW, 3/8-16X1.25, GR5	
313		Ref	HEX HD CAPSCREW, 3/8-16X1.5, GR5, (See BOOM SECTION for Breakdown)	
314		Ref	HEX NUT, 0.375-16, GR2, (See BOOM SECTION for Breakdown)	
478		Ref	LOCKWASHER, (See BOOM SECTION for Breakdown)	
507		Ref	HEX HD CAPSCREW, 3/8-16X1.25, GR5, (See BOOM SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-12. AUXILIARY HYDRAULIC CIRCUIT



ART_31200728-8-12

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-12. AUXILIARY HYDRAULIC CIRCUIT

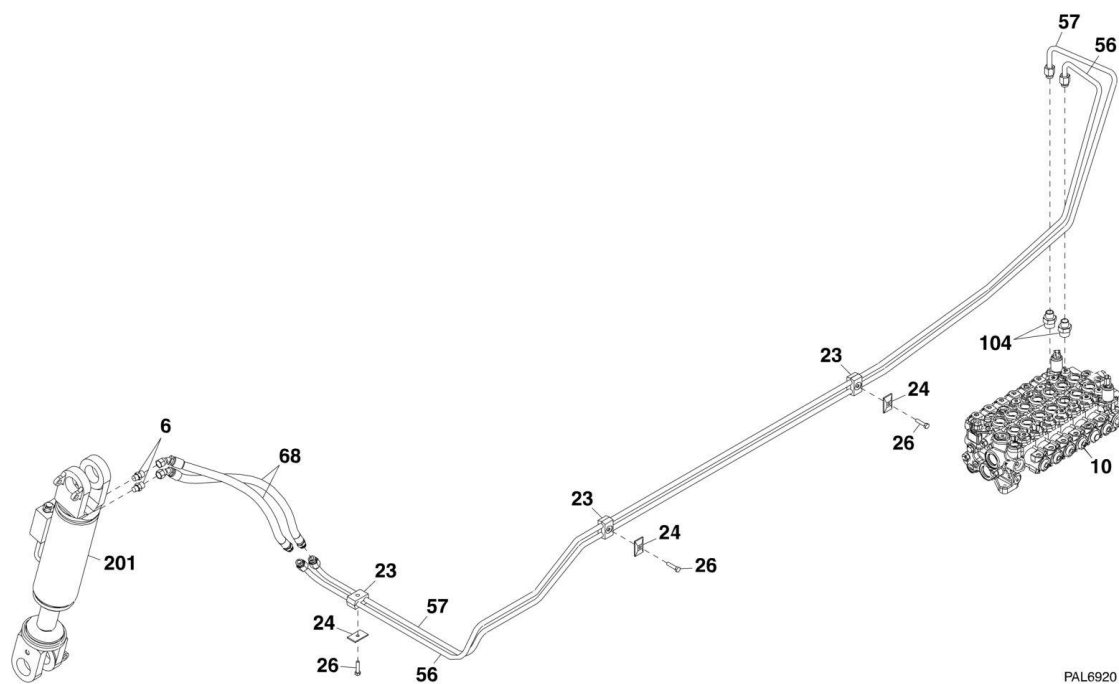
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100091	Ref	AUXILIARY HYDRAULIC INTALLATION, (not available to order, see items 1 thru 23 for service)	G
1	1001165212	2	HOSE ASSY	
2	90207464	6	CLAMP	
3	1001091306	2	HOSE TENSION ROD	
4	91123054	2	COMPRESSION SPRING	
5	91121134	2	SPRING RETAINER	
6	88501008	2	HEX NUT, 1/2-13, GR5	
7	88501108	2	HEX NUT, 1/2-13, GR5	
8	2171208	2	ADAPTER, 90, (includes o-ring)	
9	1001097038	2	HOSE ASSY	
10	3423301	1	HOSE SHEAVE PIN	
11	91143024	1	HOSE SHEAVE	
12	91041451	2	SHIM	
14	1001157030	1	BRACKET	
15	0641607	3	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
16	4761600	3	LOCKWASHER	
17	4751600	3	WASHER	
18	0641826	1	HEX HD CAPSCREW, 1/2-13X3-1/4, GR5	
19	4761800	1	LOCKWASHER	
20	91041449	AR	SHIM	
21	91401450	AR	SHIM	
22	91041596	AR	SHIM	
23	2160002	1	GREASE FITTING	
101	0641612	2	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	B
105	2172108	2	ADAPTER, 90, (includes o-ring)	
106	2180849	2	STRAIGHT FITTING, (includes o-ring)	
108	8305645	2	HEX LOCKNUT, 3/8-16	
112	91043125	1	DUST PLUG	
113	91043126	1	DUST CAP	
114	91403413	1	FEMALE QUICK DISCONNECT	
115	91403414	1	MALE QUICK DISCONNECT	
119	1001098425	1	BRACKET	
120	1001098181	2	HOSE ASSY	
203	4711000	2	WASHER, #10	
204	85941017	2	CLAMP	
205	91413036	2	SCREW, #6X1/2	
223	1001098744	Ref	DECOMPRESSION VALVE INSTALLATION, (not available to order, see items 301 thru 309 for service)	
301	1001098742	1	HOSE ASSY	
302	1001098743	1	HOSE ASSY	
303	88201008	2	HEX HD CAPSCREW, 1/4-20X1-3/4	
304	88501004	2	HEX NUT, 1/4-20	
305	88551009	2	LOCKWASHER, 1/4	
306	2110406	1	STRAIGHT FITTING, (includes o-ring)	
307	2130406	1	ADAPTER, 90, (includes o-ring)	
308	91501064	1	BRACKET	
309		Ref	DECOMPRESSION VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
422	77133168	1	CLAMP SET	

SECTION 8 - HYDRAULIC CIRCUITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
423	77133140	1	COVER PLATE	
424	0641511	1	HEX HD CAPSCREW, 5/16-18X1-3/8, GR5	
432	91561268	1	BRACKET	
433	91503094	1	DECOMPRESSION SHUTTLE VALVE	
436	2110406	1	STRAIGHT FITTING, (includes o-ring)	
437	2130606	2	ADAPTER, 90, (includes o-ring)	
440	1001105102	1	TUBE ASSY	
441	1001105103	1	TUBE ASSY	
442	2170708	2	TEE FITTING, (includes o-ring)	
443	1001165216	1	HOSE ASSY	
444	1001165218	1	HOSE ASSY	
458	4761500	2	LOCKWASHER, 5/16	
459	88501005	2	HEX NUT, 5/16-18	
460	0641508	2	HEX HD CAPSCREW, 5/16-18X1, GR5	
461	4711400	2	WASHER, 1/4	
462	0641414	2	HEX HD CAPSCREW, 1/4-20X1-3/4, GR5	
463	4761400	2	LOCKWASHER, 1/4	
464	88501004	2	HEX NUT, 1/4-20	
504	2110812	2	STRAIGHT FITTING, (includes o-ring)	
601		Ref	BOOM HYDRAULIC SUB ASSY, (See BOOM HYDRAULIC ASSEMBLY for Breakdown)	
602		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-13. FRAME LEVEL CIRCUIT



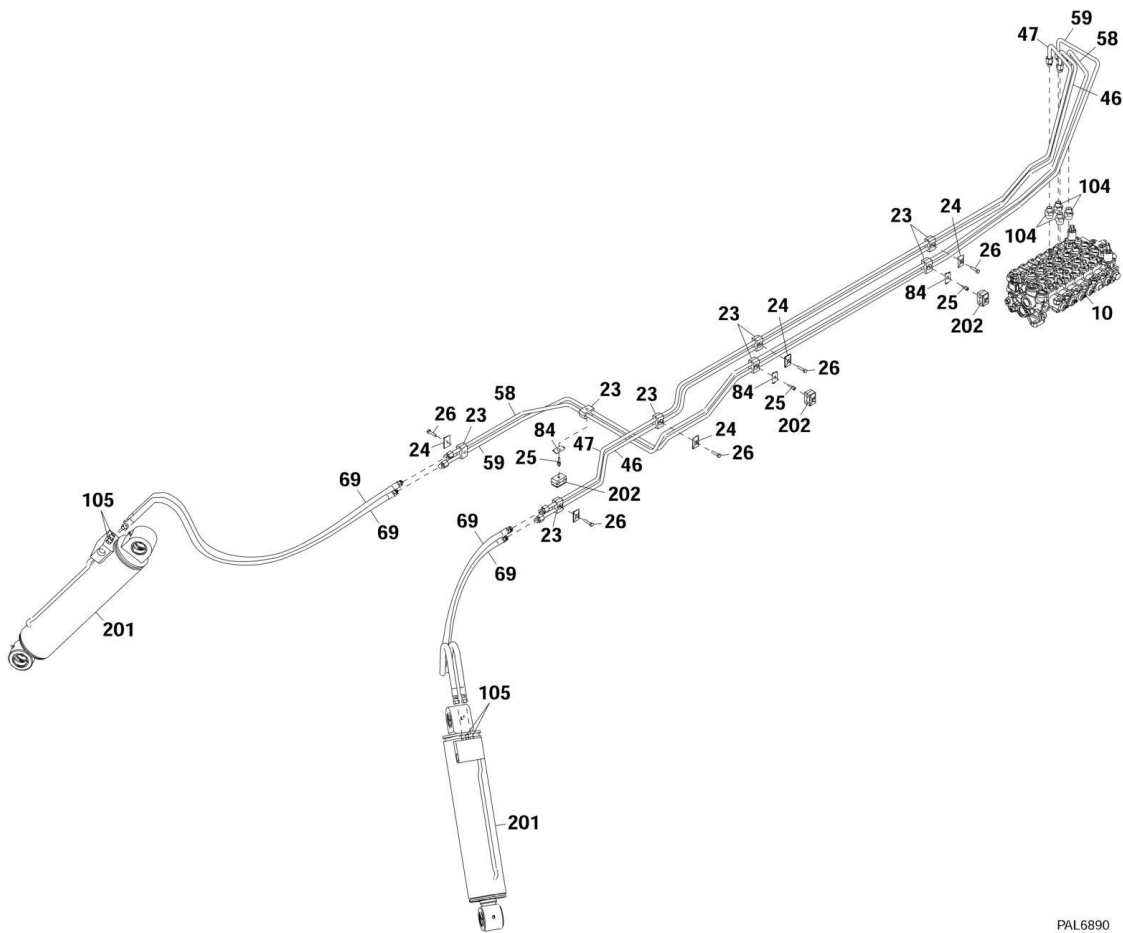
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-13. FRAME LEVEL CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
6	2110606	2	STRAIGHT FITTING, (includes o-ring)	
10		Ref	MAIN CONTROL VALVE ASSY, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
23	77133168	3	CLAMP SET	
24	77133140	3	COVER PLATE	
26	0641511	3	HEX HD CAPSCREW, 5/16-18X1-3/8, GR5	
56	1001114523	1	TUBE ASSY	
57	1001114524	1	TUBE ASSY	
68	1001165143	2	HOSE ASSY	
104	2110812	2	STRAIGHT FITTING, (includes o-ring)	
201		Ref	FRAME LEVEL CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-14. OUTRIGGER CIRCUIT



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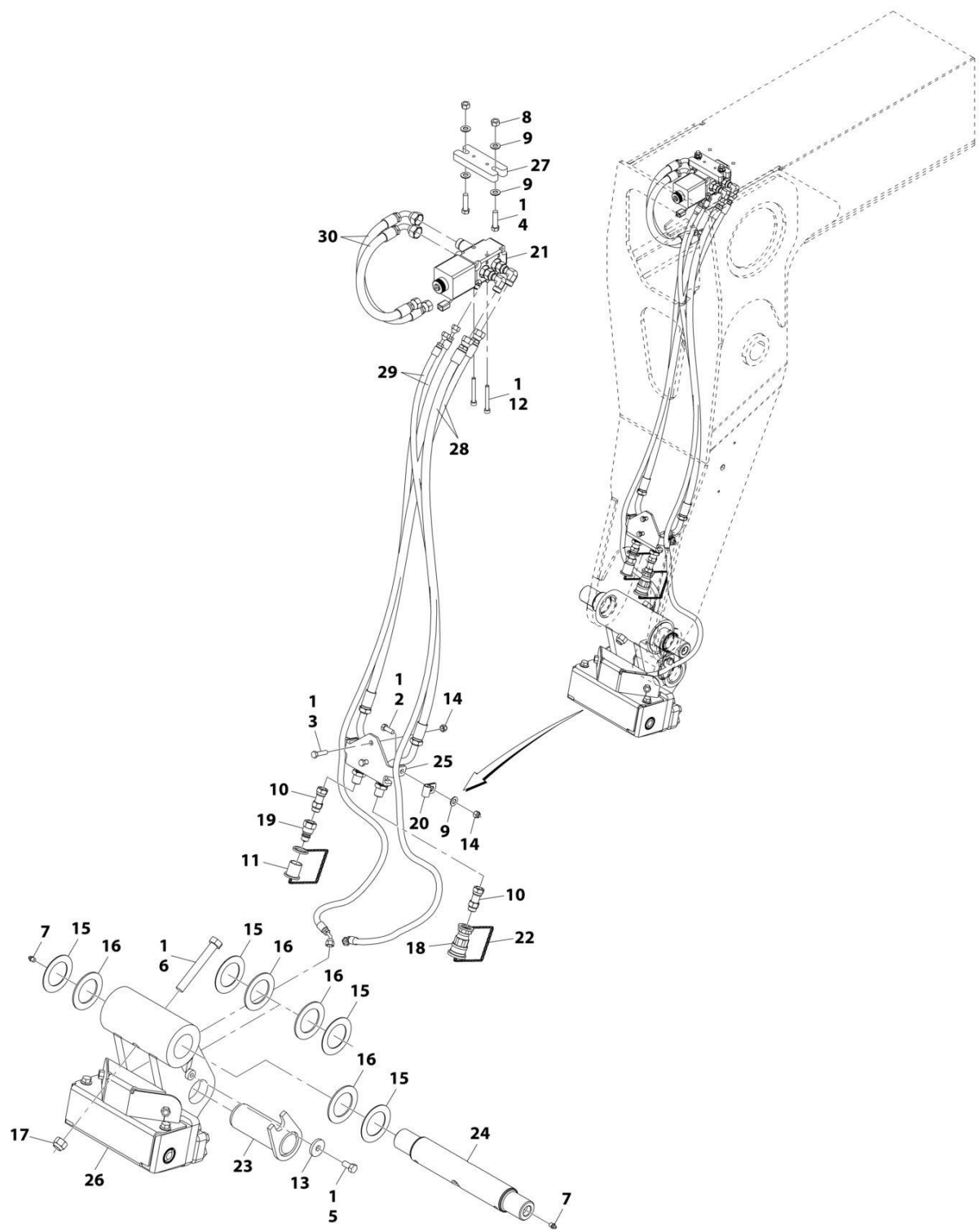
SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-14. OUTRIGGER CIRCUIT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
10		Ref	MAIN CONTROL VALVE, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
23	77133168	8	CLAMP	
24	77133140	8	COVER PLATE	
25	77133389	3	STACK BOLT	
26	0641511	5	HEX HD CAPSCREW, 5/16-18X1-3/8, GR5	
46	1001105038	1	TUBE ASSY	
47	1001105046	1	TUBE ASSY	
58	1001114525	1	TUBE ASSY	
59	1001114526	1	TUBE ASSY	
69	1001165142	4	HOSE ASSY	
84	77133390	3	SAFETY CLIP	
104	2110812	4	STRAIGHT FITTING, (includes o-ring)	
105	2110606	4	STRAIGHT FITTING, (includes o-ring)	
201		Ref	OUTRIGGER CYLINDER, (See HYDRAULIC COMPONENTS SECTION for Breakdown)	
202		Ref	CLAMP AND HARDWARE, (See FRAME LEVEL CIRCUIT for Breakdown)	

SECTION 8 - HYDRAULIC CIRCUITS

FIGURE 8-15. QUICK ATTACH INSTALLATION



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SECTION 8 - HYDRAULIC CIRCUITS

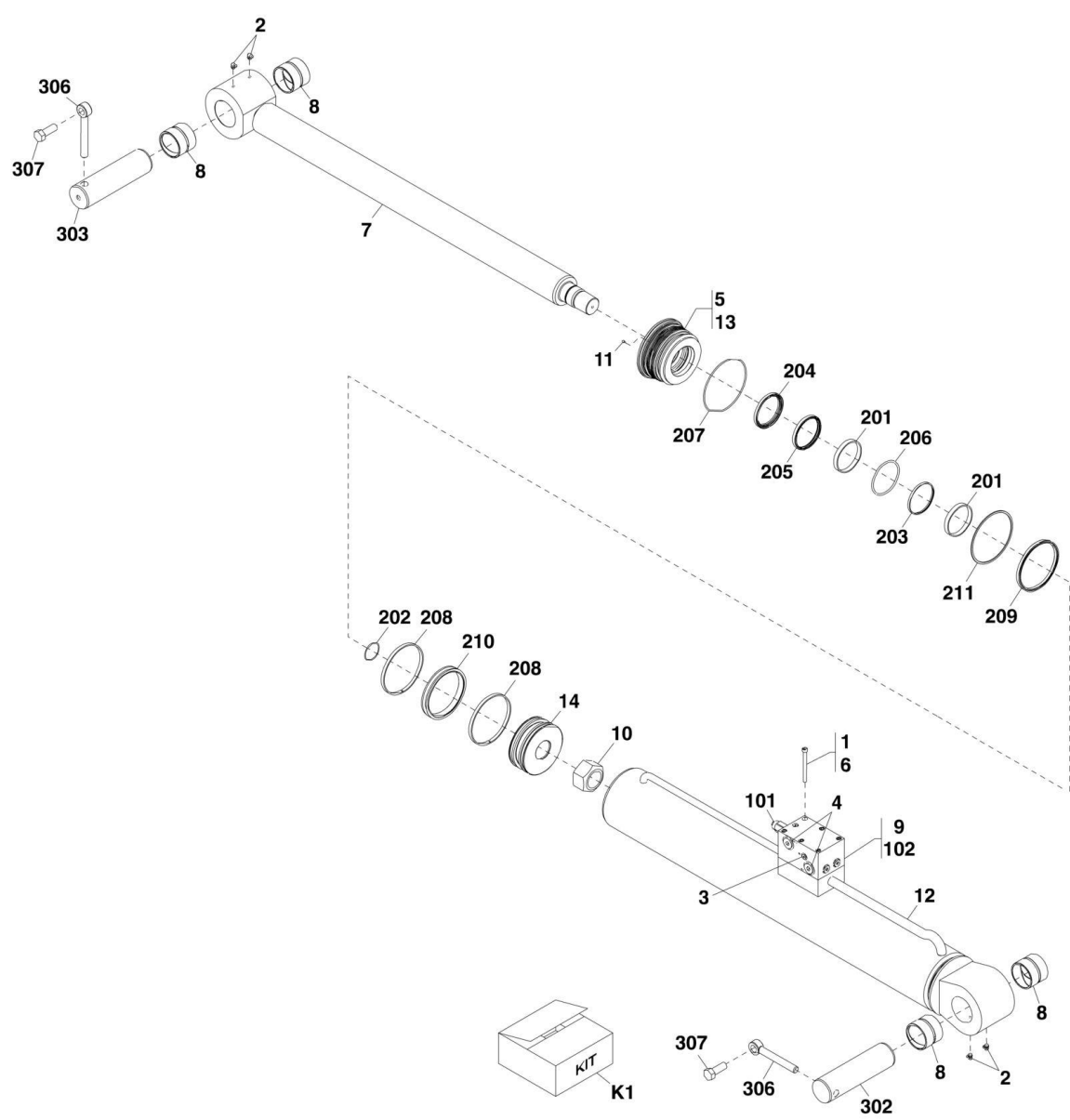
FIGURE 8-15. QUICK ATTACH INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001129467	Ref	QUICK ATTACH INSTALLATION	A
1	0100011	AR	LOCTITE 242	
2	0641608	2	HEX HD CAPSCREW, 3/8-16X1, GR5	
3	0641612	2	HEX HD CAPSCREW, 3/8-16X1-1/2, GR5	
4	0641714	2	HEX HD CAPSCREW, 7/16-14X1-3/4, GR5	
5	0641808	1	HEX HD CAPSCREW, 1/2-13X1, GR5	
6	0682244	1	HEX HD CAPSCREW, 3/4-10X5-1/2, GR8	
7	2160002	2	GREASE FITTING	
8	3311701	2	HEX NUT, 7/16-14, GR2	
9	4711700	6	WASHER, 7/16	
10	2180849	2	STRAIGHT FITTING	
11	91043126	1	DUST CAP	
12	4031918	2	HEX HD SCREW, M8X70	
13	4740003	1	WASHER	
14	8305645	4	HEX LOCKNUT, 3/8-16	
15	8307916	AR	SHIM	
16	8307917	AR	SHIM	
17	8310067	1	HEX LOCKNUT, 3/4-10	
18	91403413	1	CONNECTOR	
19	91403414	1	CONNECTOR	
20	1001080996	2	CLAMP	
21	1001127006	1	QUICK ATTACH VALVE, (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
22	91043125	1	DUST PLUG	
23	1001098218	1	PIN	
24	1001098233	1	PIN	
25	1001098425	1	BRACKET	
26	1001120135	1	QUICK ATTACH, G SERIES, (See Separate Breakdown in HYDRAULIC COMPONENTS Section)	
27	1001127353	1	PLATE, VALVE ATTACHMENT	
28	1001127008	2	HOSE ASSEMBLY	
29	1001127009	2	HOSE ASSEMBLY	
30	1001127366	2	HOSE ASSEMBLY	

SECTION 9 - HYDRAULIC COMPONENTS

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-1. LIFT CYLINDER AND HARDWARE



ART_31200728-9-1

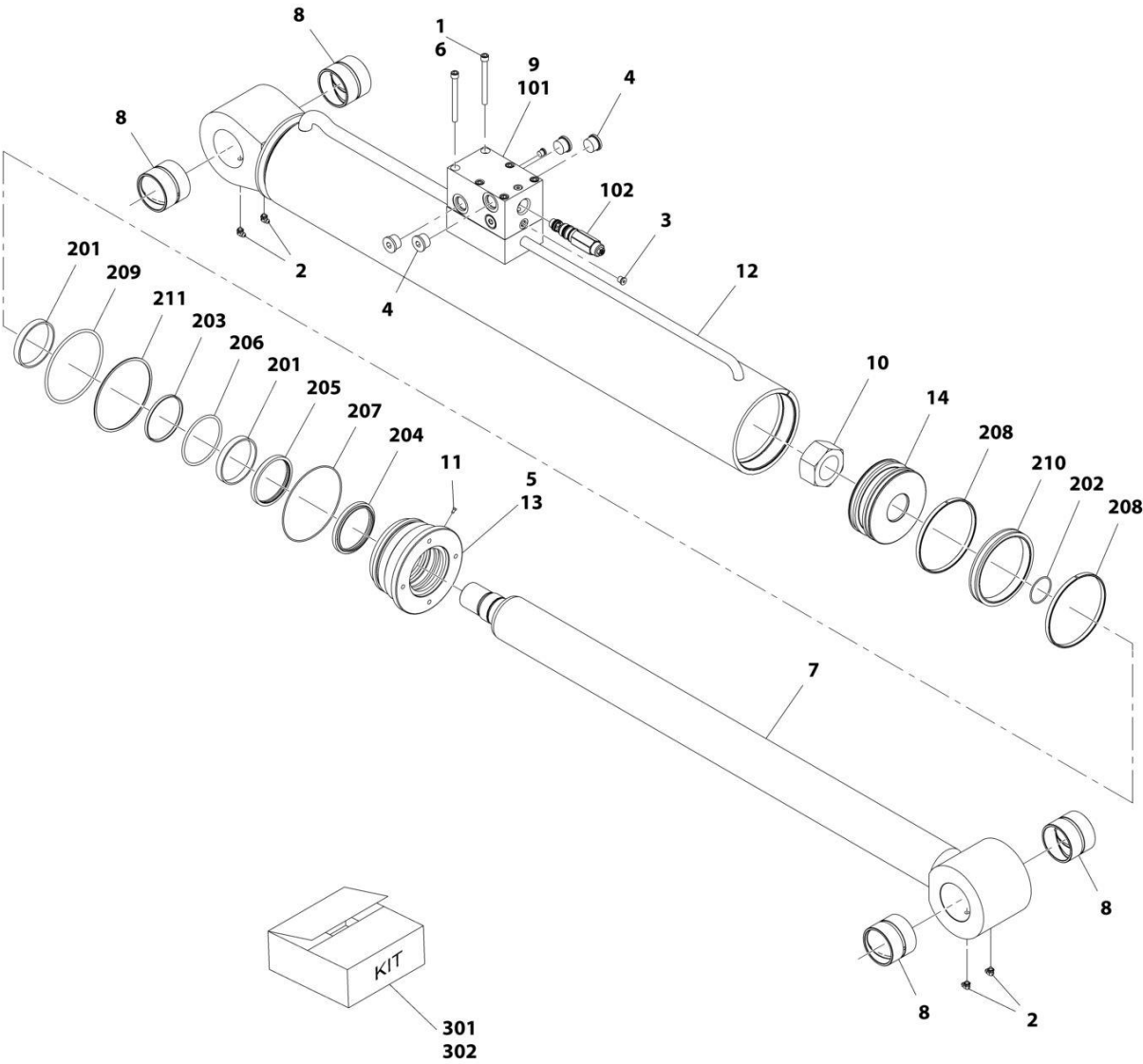
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-1. LIFT CYLINDER AND HARDWARE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001125154	2	LIFT CYLINDER (includes items 1 thru 210) (G10-55A) (Prior to SN 0160061436)	G
	1001152268	2	LIFT CYLINDER (ARCTIC), (includes items 1 thru 211) (G10-55A)	D
	1001121417	2	LIFT CYLINDER (includes items 1 thru 210) (G12-55A) (Prior to SN 0160061436)	G
	1001152295	2	LIFT CYLINDER (ARCTIC), (includes items 1 thru 211) (G12-55A)	D
1	0100011	AR	LOCTITE 242	
2	2160001	4	GREASE FITTING	
3	2220883	2	PLUG, (includes o-ring)	
4	2220888	4	PLUG, (includes o-ring)	
5	3020043	AR	ANTI-SEIZE LUBE	
6	3931664	6	SOCKET HD CAPSCREW, 3/8-16X4	
7	1001121425	1	ROD	
8	1001121429	4	BEARING	
9	1001121430	NLA	VALVE ASSY, (no longer available, see 1001172288 for replacement)	D
	1001172288	1	VALVE ASSY, (includes items 101 & 102)	A
10	1001122453	1	LOCKNUT	
11	1001125137	1	SET SCREW, #8-32	
12	1001125155	1	BARREL (G10-55A)	
12	1001121418	1	BARREL (G12-55A)	
13	1001125158	1	GLAND (torque to 120 lb-ft/163 Nm) (G10-55A)	
13	1001163567	1	GLAND (ARCTIC), (torque to 120 lb-ft/163 Nm) (G10-55A)	
13	1001121427	1	GLAND (torque to 120 lb-ft/163 Nm) (G12-55A)	
13	1001163565	1	GLAND (ARCTIC), (torque to 120 lb-ft/163 Nm) (G12-55A)	
14	1001125159	1	PISTON (G10-55A)	
14	1001121428	1	PISTON (G12-55A)	
101	1001172274	1	CARTRIDGE, (includes o-ring), (torque to 45-50 lb-ft/61-67 Nm)	
102	1001167902	1	MANIFOLD	
201	Kit	2	WEAR RING	
202	Kit	1	O-RING	
203	Kit	1	BUFFER SEAL	
204	Kit	1	WIPER RING	
205	Kit	1	ROD SEAL	
206	Kit	1	O-RING	
207	Kit	1	O-RING	
208	Kit	1	WEAR RING	
209	Kit	1	GLAND SEAL	
210	Kit	1	PISTON SEAL	
211	Kit	1	BACK-UP RING	
302	91563046	2	PIN	
303	1001101595	2	PIN	
306	3841287	4	ROD KEEPER	
307	0682216	4	HEX HD CAPSCREW, 3/4-10X2, GR8	
K1	1001125160	1	SEAL KIT (includes items 201 thru 210) (G10-55A)	
K1	1001152278	1	SEAL KIT (ARCTIC), (includes items 201 thru 211) (G10-55A)	
K1	1001121434	1	SEAL KIT (includes items 201 thru 210) (G12-55A)	
K1	1001152299	1	SEAL KIT (ARCTIC), (includes items 201 thru 211) (G12-55A)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-2. LIFT CYLINDER AND HARDWARE



ART_31200728-9-2

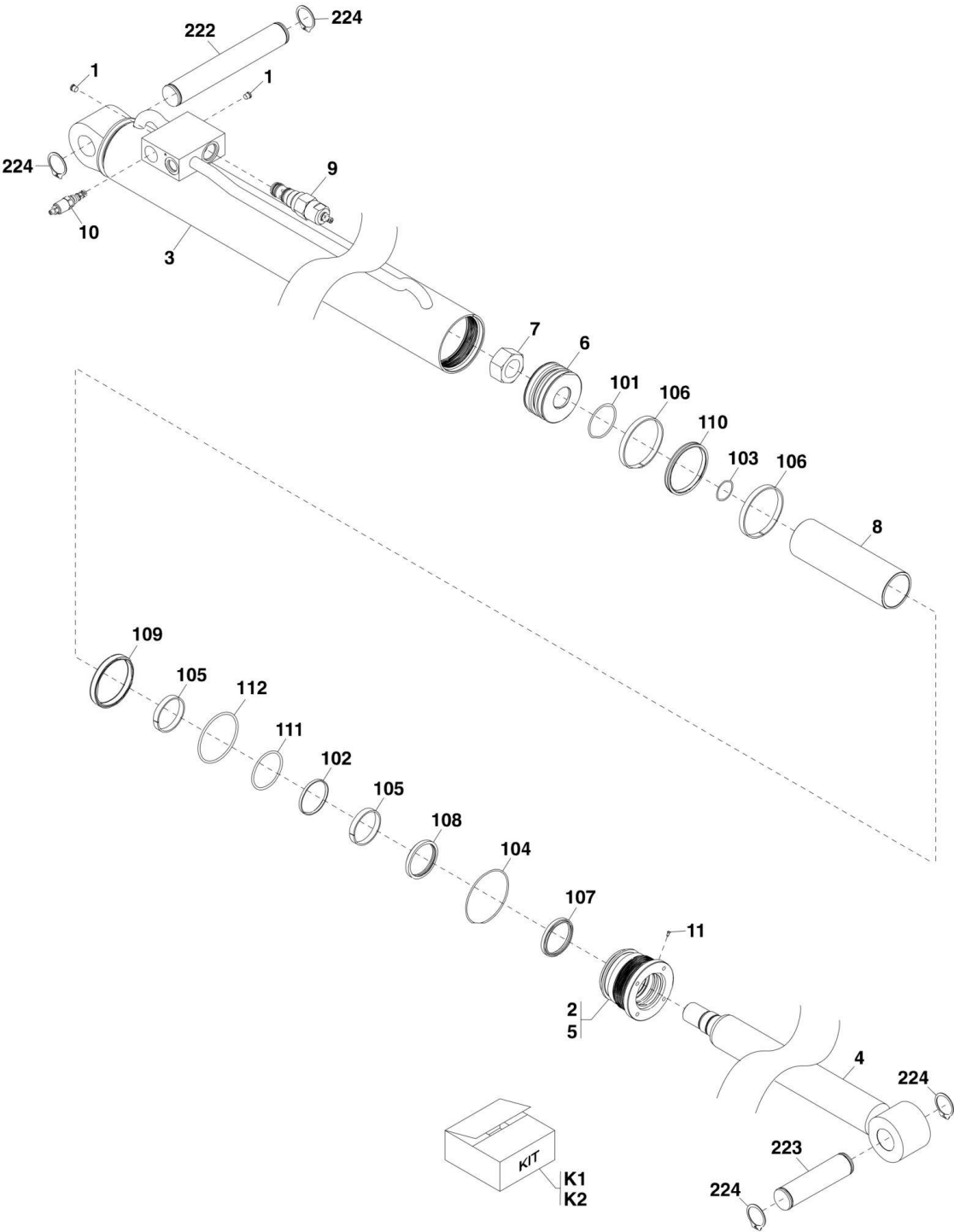
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-2. LIFT CYLINDER AND HARDWARE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001163570	2	LIFT CYLINDER (includes items 1 thru 211) (G10-55A) (SN 0160061436 to Present)	C
	1001163568	2	LIFT CYLINDER (includes items 1 thru 211) (G12-55A) (SN 0160061436 to Present)	C
1	0100011	AR	LOCTITE 242	
2	2160001	4	GREASE FITTING	
3	2220883	2	PLUG, (includes o-ring)	
4	2220888	4	PLUG, (includes o-ring)	
5	3020043	AR	ANTI-SEIZE LUBE	
6	3931664	6	SOCKET HD CAPSCREW, 3/8-16X4	
7	1001121425	1	ROD	
8	1001121429	4	BEARING	
9	1001172288	1	VALVE ASSY, (includes items 101 & 102)	
10	1001122453	1	LOCKNUT	
11	1001125137	1	SET SCREW, #8-32	
12	1001125155	1	BARREL (G10-55A)	
12	1001121418	1	BARREL (G12-55A)	
13	1001163567	1	CYLINDER HEAD (G10-55A)	
13	1001163565	1	CYLINDER HEAD (G12-55A)	
14	1001125159	1	PISTON (G10-55A)	
14	1001121428	1	PISTON (G12-55A)	
101	1001167902	1	MANIFOLD	
102	1001172274	1	CATRIDGE COUNTERBALANCE VALVE	
201	Kit	2	WEAR RING	
202	Kit	1	O- RING	
203	Kit	1	BUFFER SEAL	
204	Kit	1	WIPER RING	
205	Kit	1	ROD SEAL	
206	Kit	1	O-RING	
207	Kit	1	O-RING	
208	Kit	2	WEAR RING	
209	Kit	1	O-RING	
210	Kit	1	PISTON SEAL	
211	Kit	1	BACKUP RING	
301	1001163543	1	SEAL KIT (includes items 201 thru 211) (G10-55A)	
302	1001163541	1	SEAL KIT (includes items 201 thru 211) (G12-55A)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-3. EXTEND/RETRACT CYLINDER AND HARDWARE



ART_31200728-9-3

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-3. EXTEND/RETRACT CYLINDER AND HARDWARE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001122483	1	EXTEND/RETRACT CYLINDER, (includes items 1 thru 111) (Prior to SN 0160061436)	F
	1001163569	1	EXTEND/RETRACT CYLINDER, (includes items 1 thru 112) (SN 0160061436 to Present)	B
	1001152272	1	EXTEND/RETRACT CYLINDER, (ARCTIC), (includes items 1 thru 111)	C
1	2220883	2	PLUG, (includes o-ring)	
2	3020043	AR	ANTI-SEIZE LUBE	
3	1001122484	1	BARREL	
4	1001122491	1	ROD	
5	1001122494	1	GLAND, (torque to 100 lb-ft/136 Nm) (Prior to SN 0160061436)	
5	1001163566	1	GLAND, (torque to 100 lb-ft/136 Nm) (SN 0160061436 to Present)	
5	1001163566	1	GLAND, (ARCTIC), (torque to 100 lb-ft/136 Nm)	
6	1001122495	1	PISTON	
7	1001122505	1	LOCKNUT	
8	1001123013	1	SPACER	
9	1001123014	1	COUNTERBALANCE VALVE, (includes o-ring)	
10	1001123015	1	COUNTERBALANCE VALVE, (includes o-ring)	
11	1001125137	1	SET SCREW, #8-32	
101	Kit	1	O-RING	
102	Kit	1	BUFFER SEAL	
103	Kit	1	O-RING	
104	Kit	1	O-RING	
105	Kit	2	WEAR RING	
106	Kit	1	WEAR RING	
107	Kit	1	WEAR RING	
108	Kit	1	ROD SEAL	
109	Kit	1	GLAND SEAL	
110	Kit	1	PISTON SEAL	
111	Kit	1	O-RING	
112	Kit	1	O-RING	
222	91161136	1	PIN	
223	91161137	1	PIN (G10-55A)	
223	91563263	1	PIN (G12-55A)	
224	88581149	4	RETAINING RING	
K1	1001122496	1	SEAL KIT, (includes items 101 thru 111) (Prior to SN 0160061436)	
K1	1001152279	1	SEAL KIT, (ARCTIC), (includes items 101 thru 111)	
K2	1001163542	1	SEAL KIT, (includes items 101 thru 112) (SN 0160061436 to Present)	

330

G10-55A,G12-55A



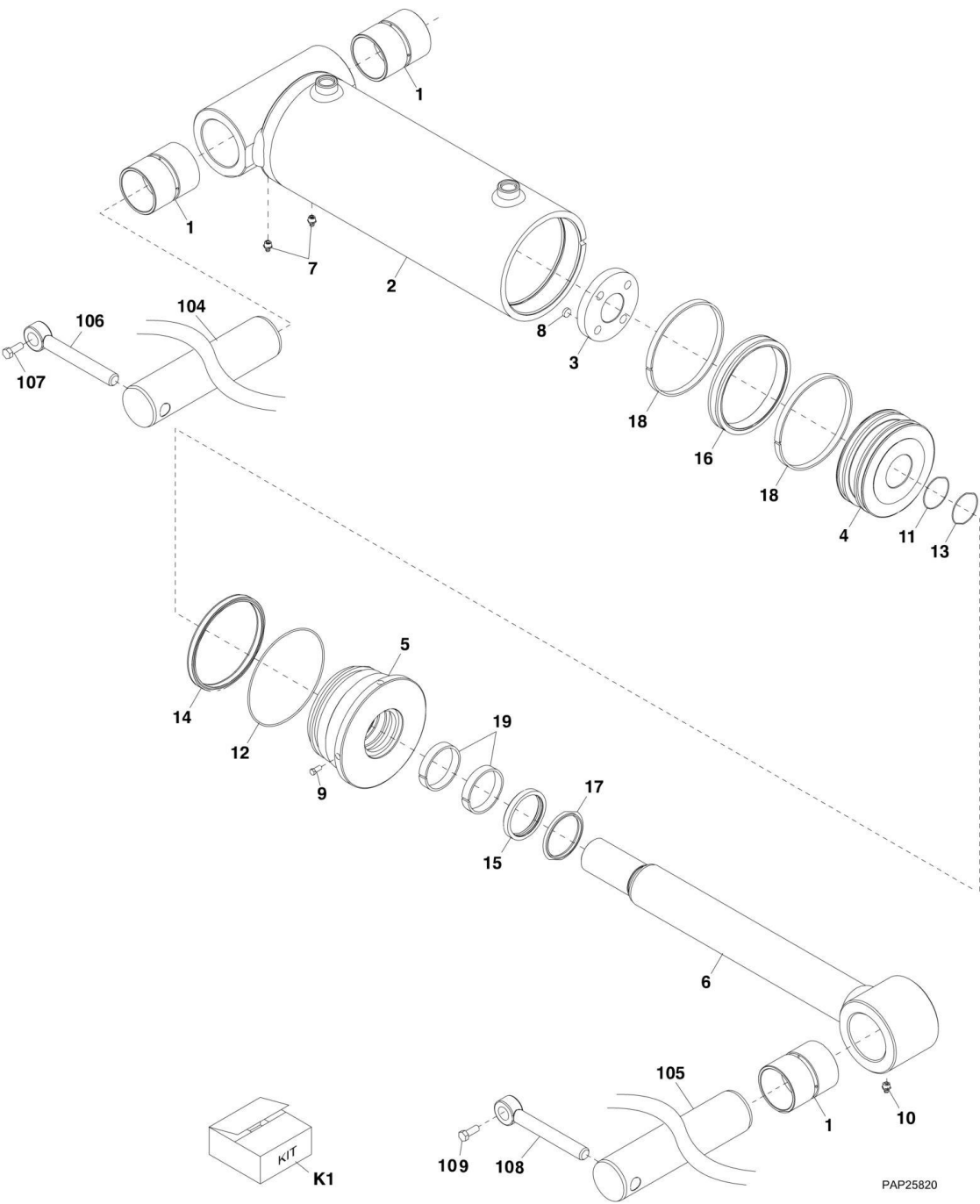
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-4. TILT CYLINDER AND HARDWARE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1684539	1	TILT CYLINDER (includes items 1 thru 18) (G10-55A)	G
	1001152271	1	TILT CYLINDER (ARCTIC), (includes items 1 thru 18) (G10-55A)	A
	1684538	1	TILT CYLINDER (includes items 1 thru 18) (G12-55A)	G
	1001152298	1	TILT CYLINDER (ARCTIC), (includes items 1 thru 18) (G12-55A)	A
1	70022089	1	BARREL (G10-55A)	
1	70022094	1	BARREL (G12-55A)	
2	70022090	1	PISTON (G10-55A)	
2	70022095	1	PISTON (G12-55A)	
3	70022091	1	GLAND (torque to 500-600 lb-ft) (G10-55A)	
3	70022096	1	GLAND (torque to 500-600 lb-ft) (G12-55A)	
4	70022092	1	ROD WELDMENT	
5	1001098409	2	BEARING	
6	91563244	1	BUSHING	
7	8036394	1	LOCKNUT, (torque to 2200-2500 ft lbs)	
8	70020375	1	LUBE FITTING	
9	70024330	1	COUNTERBALANCE VALVE (torque to 40-45 lb-ft) (G10-55A)	
9	70023965	1	COUNTERBALANCE VALVE (torque to 40-45 lb-ft) (G12-55A)	
9	91404382	1	SEAL KIT (G10-55A)	
9	70024003	1	SEAL KIT (G12-55A)	
10	Kit	1	O-RING	
11	Kit	1	O-RING	
12	Kit	1	SEAL	
13	Kit	1	SEAL	
14	Kit	1	SEAL	
15	Kit	1	WIPER	
16	Kit	1	WEAR RING	
17	Kit	2	WEAR RING	
18	Kit	2	INSERT	
189	88581157	2	RETAINING RING	
204	1001098220	1	CYLINDER PIN	
235	8307916	AR	SHIM	
236	8307917	AR	SHIM	
K1	70022093	1	SEAL KIT (includes items 10 thru 18) (G10-55A)	
K1	70022098	1	SEAL KIT (includes items 10 thru 18) (G12-55A)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-5. COMPENSATION CYLINDER AND HARDWARE



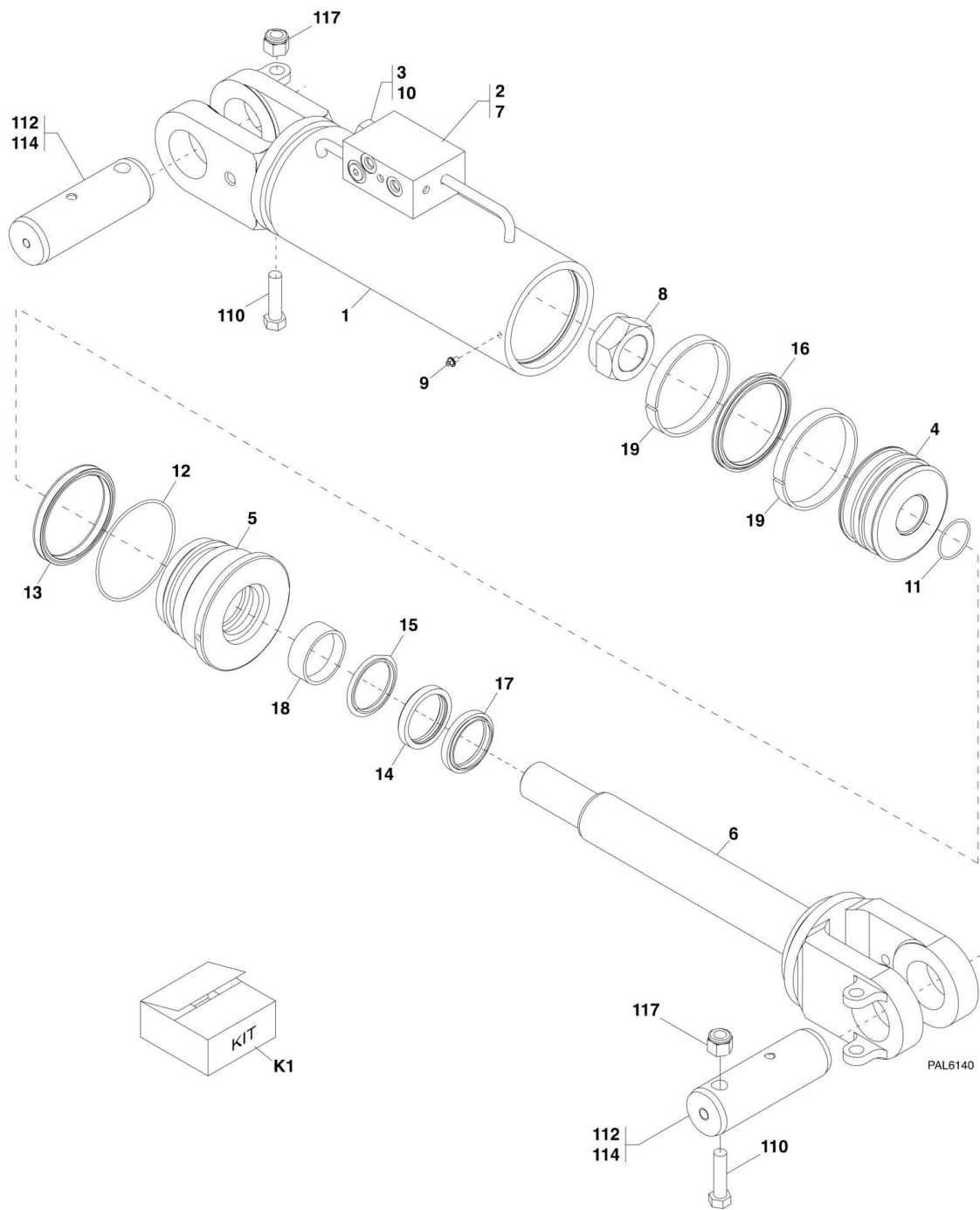
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-5. COMPENSATION CYLINDER AND HARDWARE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001116442	1	COMPENSATION CYLINDER (includes items 1 thru 19) (G10-55A)	D
	1001152269	1	COMPENSATION CYLINDER (ARCTIC), (includes items 1 thru 19) (G10-55A)	A
	1001116441	1	COMPENSATION CYLINDER (includes items 1 thru 19) (G12-55A)	D
	1001152296	1	COMPENSATION CYLINDER (ARCTIC), (includes items 1 thru 19) (G12-55A)	A
1	70023979	3	BEARING	
2	70023980	1	BARREL (G10-55A)	
2	70023987	1	BARREL (G12-55A)	
3	70023981	1	LOCKING COLLAR	
4	70023982	1	PISTON (G10-55A)	
4	70023988	1	PISTON (G12-55A)	
5	70023983	1	GLAND (G10-55A)	
5	70023989	1	GLAND (G12-55A)	
6	70023984	1	ROD (G10-55A)	
6	70023990	1	ROD (G12-55A)	
7	70023985	2	GREASE FITTING	
8	8036629	4	SET SCREW, 3/8-16X3/4	
9	70023896	1	TAPPING SCREW	
10	70020375	1	GREASE FITTING	
11	Kit	1	O-RING	
12	Kit	1	O-RING	
13	Kit	2	BACK-UP RING	
14	Kit	1	POLYPAK	
15	Kit	1	SEAL	
16	Kit	1	CAP SEAL	
17	Kit	1	ROD WIPER	
18	Kit	2	WEAR BAND	
19	Kit	2	WEAR BAND	
104	91563047	1	PIN	
105	1001127962	1	PIN	
106	3841287	1	ROD KEEPER	
107	0682216	1	HEX HD CAPSCREW, 3/4-10X2, GR8	
108	3841356	1	ROD KEEPER	
109	0682618	1	HEX HD CAPSCREW, 1-8 X 2.25, GR8	
K1	70023986	1	SEAL KIT (includes items 11 thru 19) (G10-55A)	
K1	70023991	1	SEAL KIT (includes items 11 thru 19) (G12-55A)	
K1	70025976	1	SEAL KIT (ARCTIC), (includes items 11 thru 19) (G12-55A)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-6. FRAME LEVEL CYLINDER AND HARDWARE



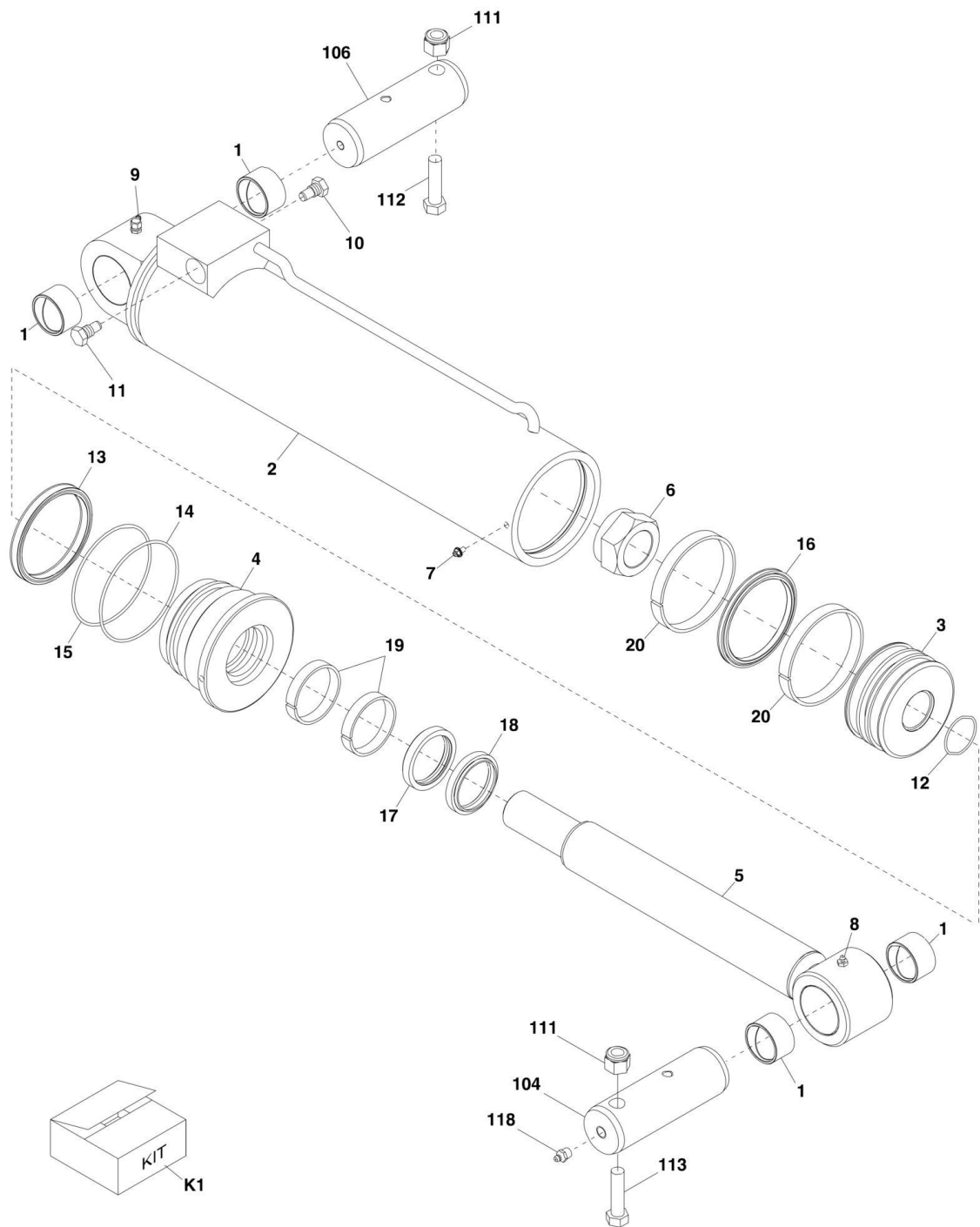
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-6. FRAME LEVEL CYLINDER AND HARDWARE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001116440	1	FRAME LEVEL CYLINDER, (includes items 1 thru 19)	D
	1001152273	1	FRAME LEVEL CYLINDER, (ARCTIC), (includes items 1 thru 19)	A
1	70023934	1	TUBE WELDMENT	
2	70023935	1	ORIFICE PLUG, 0.052	
3	70023936	1	ORIFICE PLUG, 0.040	
4	70022861	1	PISTON	
5	70023940	1	HEAD GLAND	
6	70023937	1	ROD WELDMENT	
7	8035784	1	PLUG	
8	8035865	1	LOCKNUT, 1-1/4-12	
9	70023896	1	TAPPING SCREW, #8-32X1/4	
10	7026938	1	DUAL P.O. CHECK VALVE	
11	Kit	1	O-RING	
12	Kit	1	O-RING	
13	Kit	1	POLY-PAK SEAL	
14	Kit	1	U-CUP	
15	Kit	1	BUFFER SEAL	
16	Kit	1	T-SEAL	
17	Kit	1	ROD WIPER	
18	Kit	1	PRECISION WEARBAND	
19	Kit	2	PRECISION WEARBAND	
110	0641832	2	HEX HD CAPSCREW, 1/2-13X4, GR5	
112	2200221	2	FITTING PLUG, 1/8	
114	3423227	2	CYLINDER PIN	
117	88521208	2	LOCKNUT, 1/2-13	
K1	70023943	1	SEAL KIT, (includes items 11 thru 19)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-7. OUTRIGGER CYLINDER AND HARDWARE



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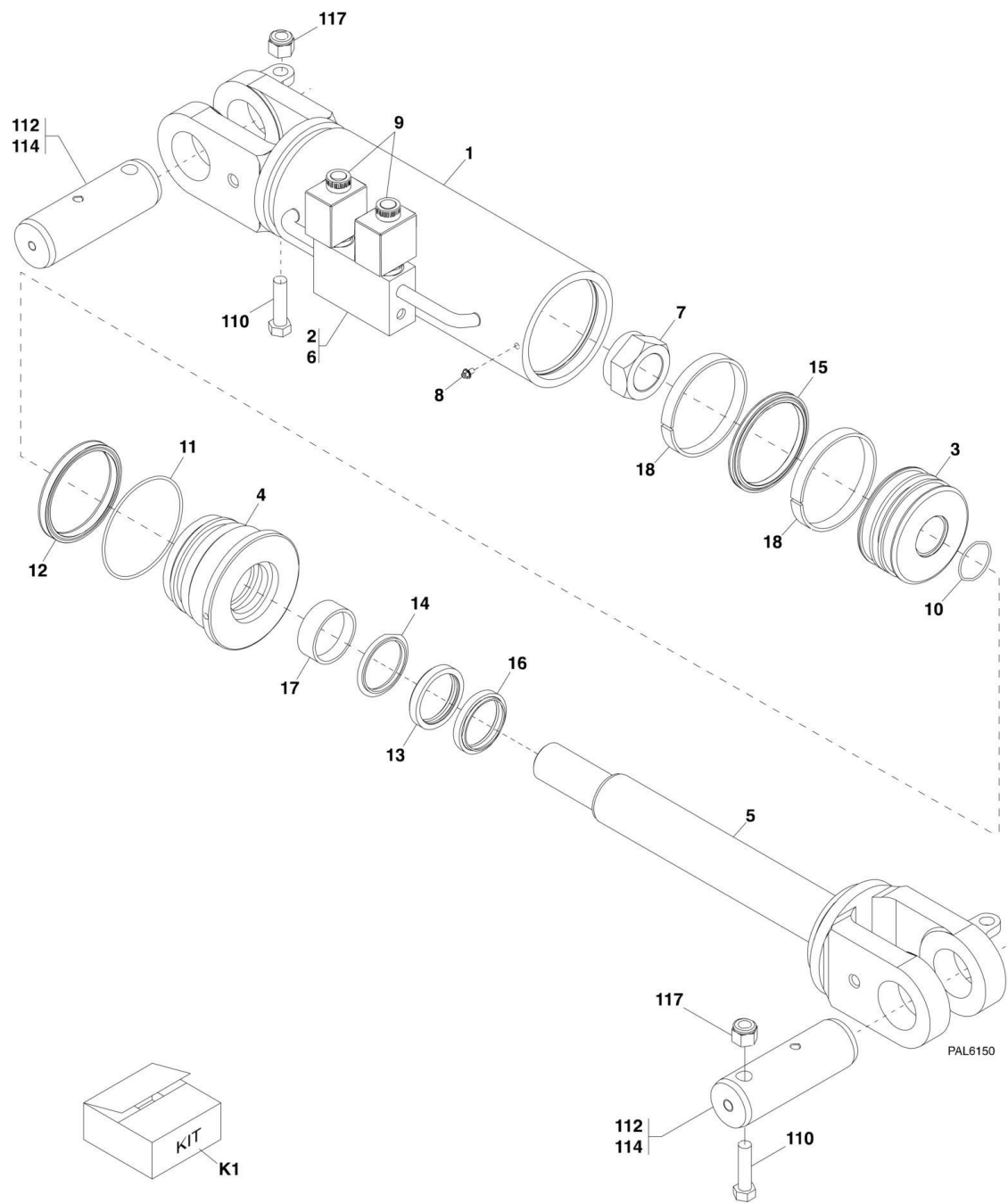
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-7. OUTRIGGER CYLINDER AND HARDWARE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001116439	2	OUTRIGGER CYLINDER, (includes items 1 thru 20)	C
1	70020370	4	BUSHING	
2	70023892	1	BARREL	
3	70023893	1	PISTON	
4	70023894	1	GLAND	
5	70023895	1	ROD	
6	8036629	1	SET SCREW, 3/8-16X3/4	
7	70023896	1	TAPPING SCREW	
8	70020375	1	GREASE FITTING	
9	70023575	1	GREASE FITTING	
10	8036750	1	CHECK VALVE	
11	70023898	1	CHECK VALVE	
12	Kit	1	O-RING	
13	Kit	1	O-RING	
14	Kit	1	O-RING	
15	Kit	1	BACKUP RING	
16	Kit	1	PISTON SEAL	
17	Kit	1	ROD SEAL	
18	Kit	1	ROD WIPER	
19	Kit	2	WEARBAND	
20	Kit	2	WEARBAND	
104	91563199	2	PIN	
106	91563197	2	PIN	
111	3300143	4	LOCKNUT	
112	3931672	2	SOCKET HD CAPSCREW	
113	0641634	2	HEX HD CAPSCREW, 3/8-16X4-1/2, GR8	
118	88671001	4	LUBE FITTING, STRAIGHT, 1/8	
K1	70023899	2	SEAL KIT, (includes items 12 thru 20)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-8. STABILIZER CYLINDER AND HARDWARE



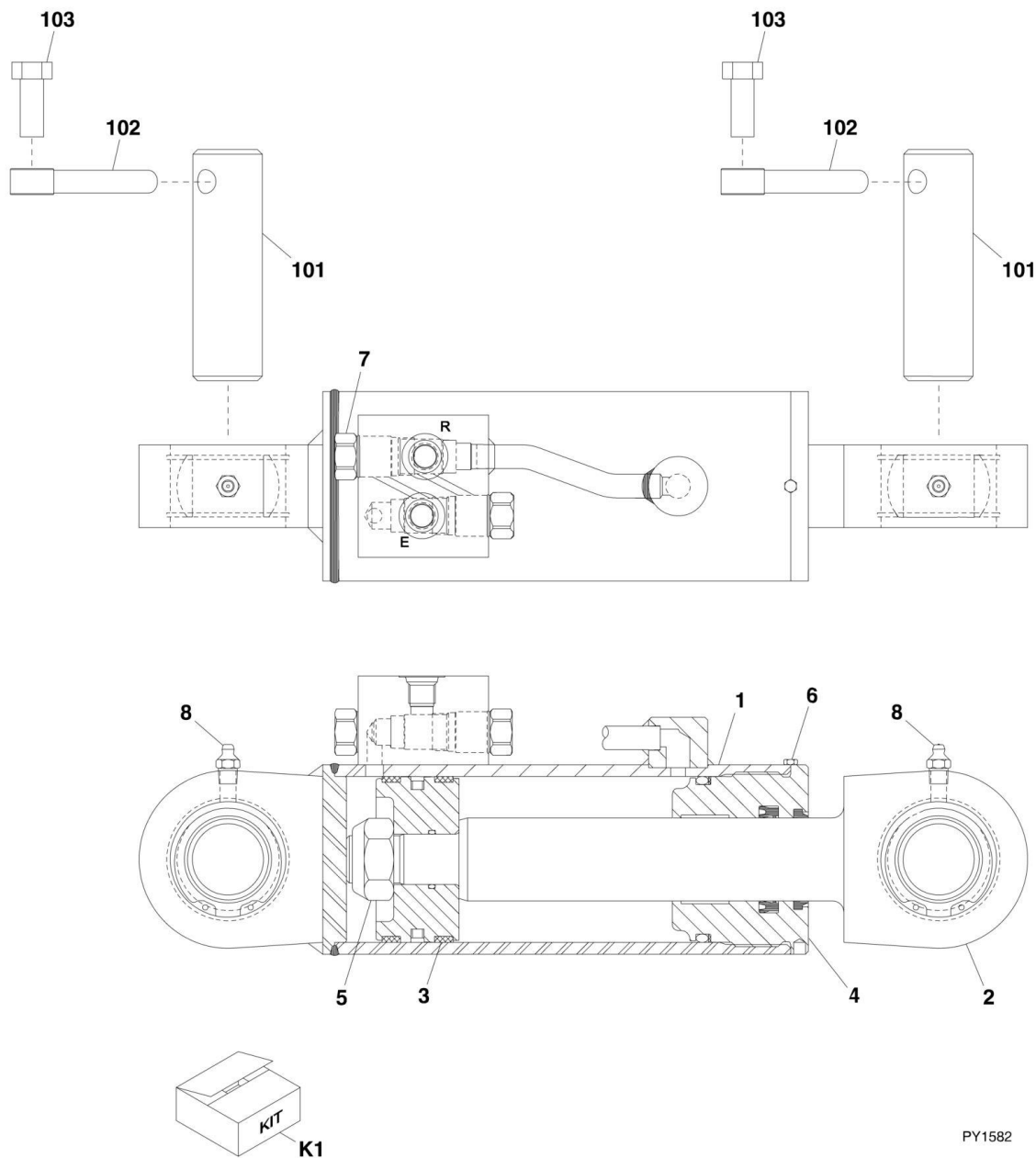
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-8. STABILIZER CYLINDER AND HARDWARE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001116443	1	STABILIZER CYLINDER, (includes items 1 thru 18)	D
	1001152274	1	STABILIZER CYLINDER, (ARCTIC), (includes items 1 thru 18)	A
1	70023939	1	BARREL	
2	8035782	2	O-RING	
3	70022861	1	PISTON	
4	70023940	1	GLAND	
5	70023941	1	ROD	
6	8035784	2	PLUG	
7	8035865	1	LOCKNUT, 1-1/4	
8	70023896	1	TAPPING SCREW	
9	70023963	2	SOLENOID VALVE	
10	Kit	1	O-RING	
11	Kit	1	O-RING	
12	Kit	1	GLAND SEAL	
13	Kit	1	ROD SEAL	
14	Kit	1	BUFFER SEAL	
15	Kit	1	PISTON SEAL	
16	Kit	1	ROD WIPER	
17	Kit	1	WEARBAND	
18	Kit	2	WEARBAND	
110	0641832	2	HEX HD CAPSCREW, 1/2-13X4, GR5	
112	2200221	2	FITTING PLUG, 1/8	
114	3423227	2	CYLINDER PIN	
117	88521208	2	LOCKNUT, 1/2-13	
K1	70023943	1	SEAL KIT, (includes items 10 thru 18)	
K1	70025975	1	SEAL KIT, (ARCTIC), (includes items 10 thru 18)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-9. SIDE TILT CARRIAGE CYLINDER (Prior to SN 0160066379)



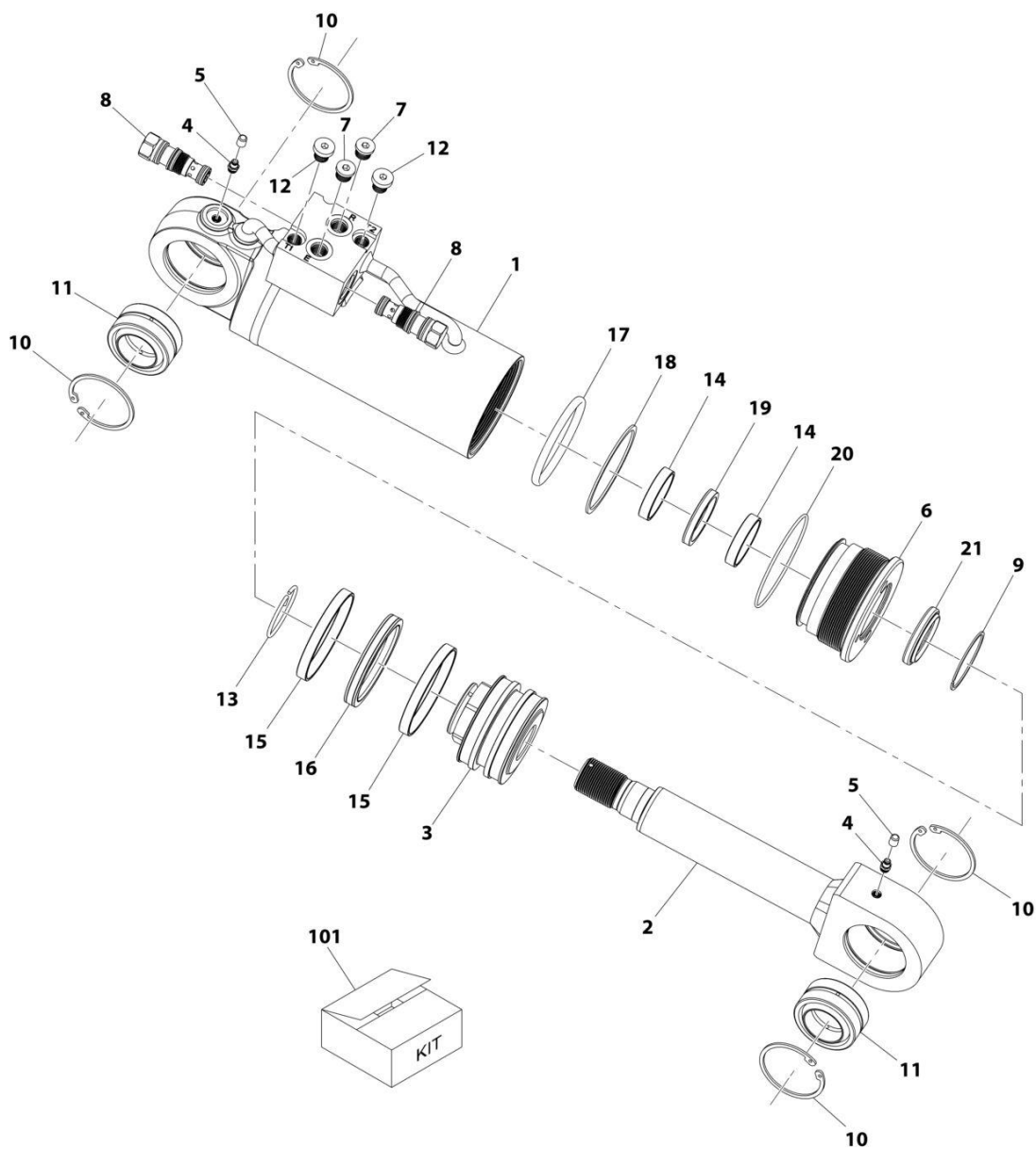
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-9. SIDE TILT CARRIAGE CYLINDER (Prior to SN 0160066379)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001090134	1	SIDE TILT CARRIAGE CYLINDER, (includes all items)	C
1	70022038	1	BARREL	
2	70022039	1	ROD	
3	70022040	1	PISTON	
3	70022042	1	SEAL KIT	
4	70024002	1	ROD BEARING	
4	70022043	1	SEAL KIT	
5	90022230	1	HEX NUT	
6	7029760	1	CAPSCREW	
7	4640438	2	CHECK VALVE	
7	2900770	1	SEAL KIT	
8	91044080	2	GREASE FITTING	
101	3423307	2	PIN	
102	3841203	2	KEEPER	
103	0681810	2	HEX HD CAPSCREW, 1/2-13X1-1/4, GR8	
K1	70022041	1	SEAL KIT, (contains 70022042 & 70022043)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-10. SIDE TILT CARRIAGE CYLINDER (SN 0160066379 to Present)



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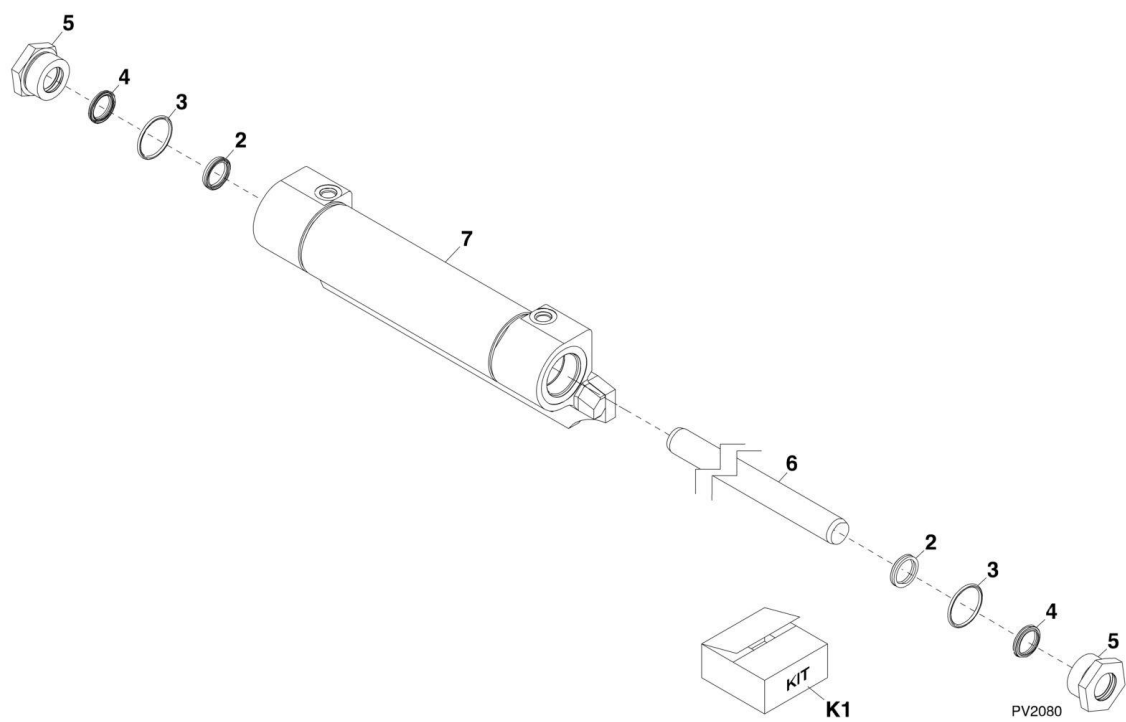
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-10. SIDE TILT CARRIAGE CYLINDER (SN 0160066379 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	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)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-11. 50 IN SIDE SHIFT CARRIAGE CYLINDER



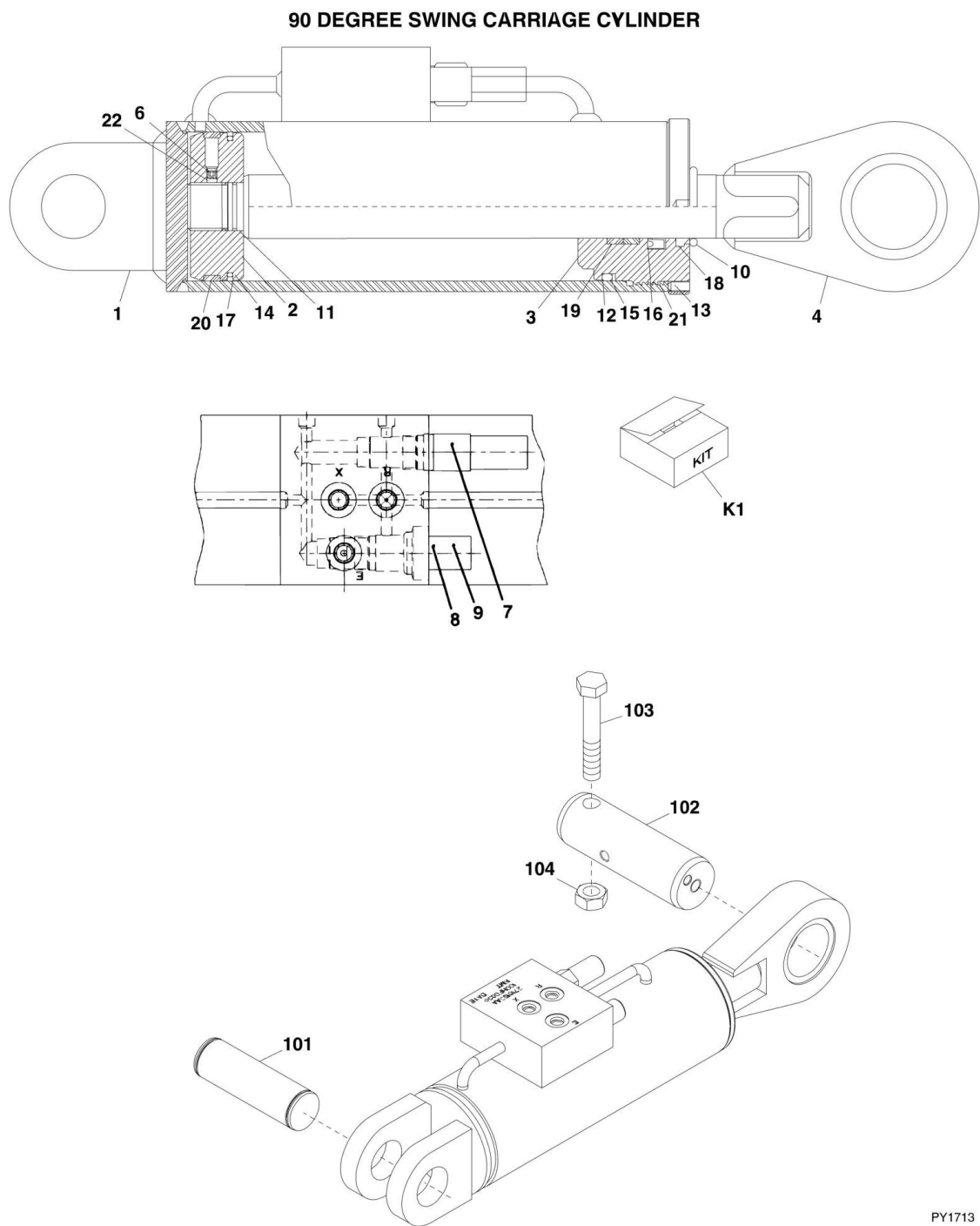
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-11. 50 IN SIDE SHIFT CARRIAGE CYLINDER

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

SECTION 9 - HYDRAULIC COMPONENTS

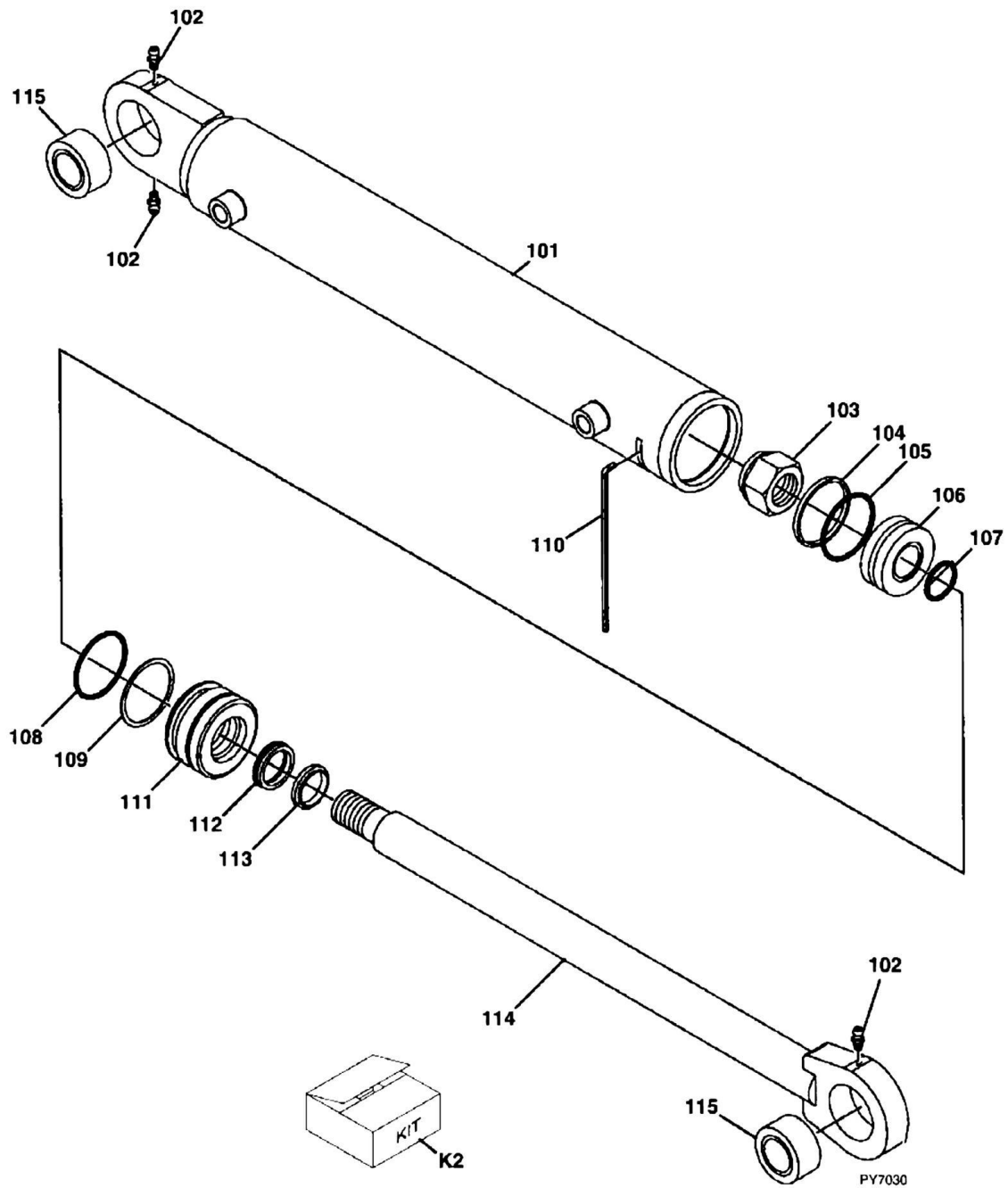
FIGURE 9-12. SWING CARRIAGE CYLINDER



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SECTION 9 - HYDRAULIC COMPONENTS

180 DEGREE SWING CARRIAGE CYLINDER



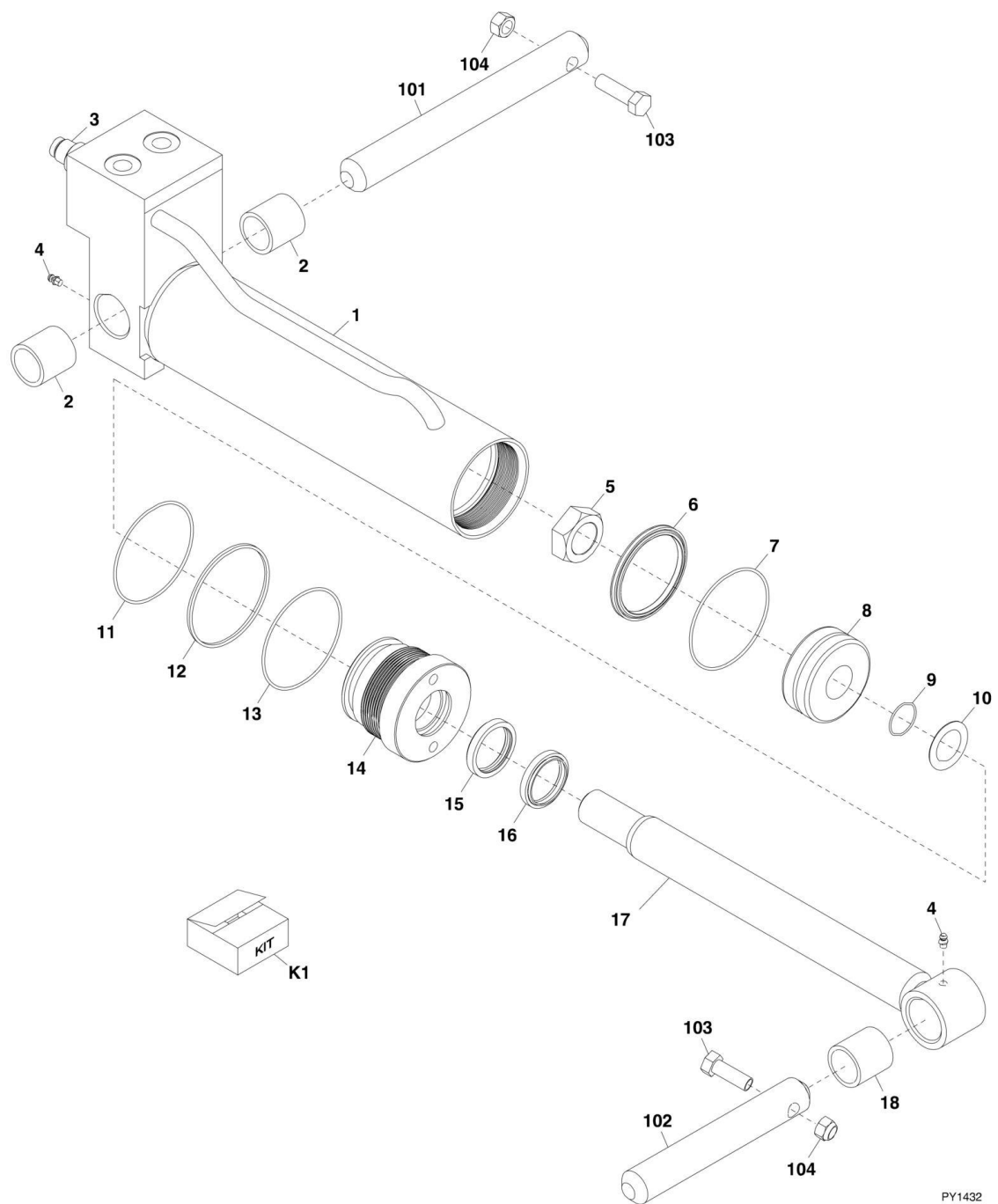
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-12. SWING CARRIAGE CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001103182	2	90, 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, (not shown)	
6	8035536	2	SET SCREW, 5/16-18X1/2	
7	70020428	1	RELIEF VALVE, (preset to 2000 psi)	
7	7024574	1	SEAL KIT	
8	8033786	1	COUNTERBALANCE VALVE, (preset to 3000 psi)	
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	1	WEARBAND	
20	Kit	1	WEARBAND	
21	Kit	2	INSERT	
22	Kit	2	INSERT	
101	7110722	2	CYLINDER PIN, (base end)	G
102	7110712	2	CYLINDER PIN, (rod end)	
103	8303634	2	HEX HD CAPSCREW, 5/8-11X4, GR5	
104	8305643	2	HEX NUT, 5/8-11	
K1	2915023	2	SEAL KIT, (includes items 11 thru 22)	
	7029995	1	180, SWING CARRIAGE CYLINDER, (includes items 101 thru 115)	
101	70021441	1	CYLINDER TUBE	
102	90554045	3	GREASE FITTING	
103	70021440	1	HEX NUT	
104	Kit	1	PISTON RING	
105	Kit	1	O-RING	
106	70021976	1	PISTON	
107	Kit	1	O-RING	
108	Kit	1	O-RING	
109	Kit	1	BACKUP WASHER	
110	Kit	1	RETAINER RING	
111	70021443	1	CYLINDER GLAND	
112	Kit	1	POLY-PAK SEAL, TYPE B	
113	Kit	1	ROD WIPER	
114	70021442	1	CYLINDER ROD	
115	90554046	2	BUSHING	
K2	70021453	1	SEAL KIT (includes items 104, 105, 107 thru 110, 112 & 113)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-13. GRAPPLE BUCKET CYLINDER



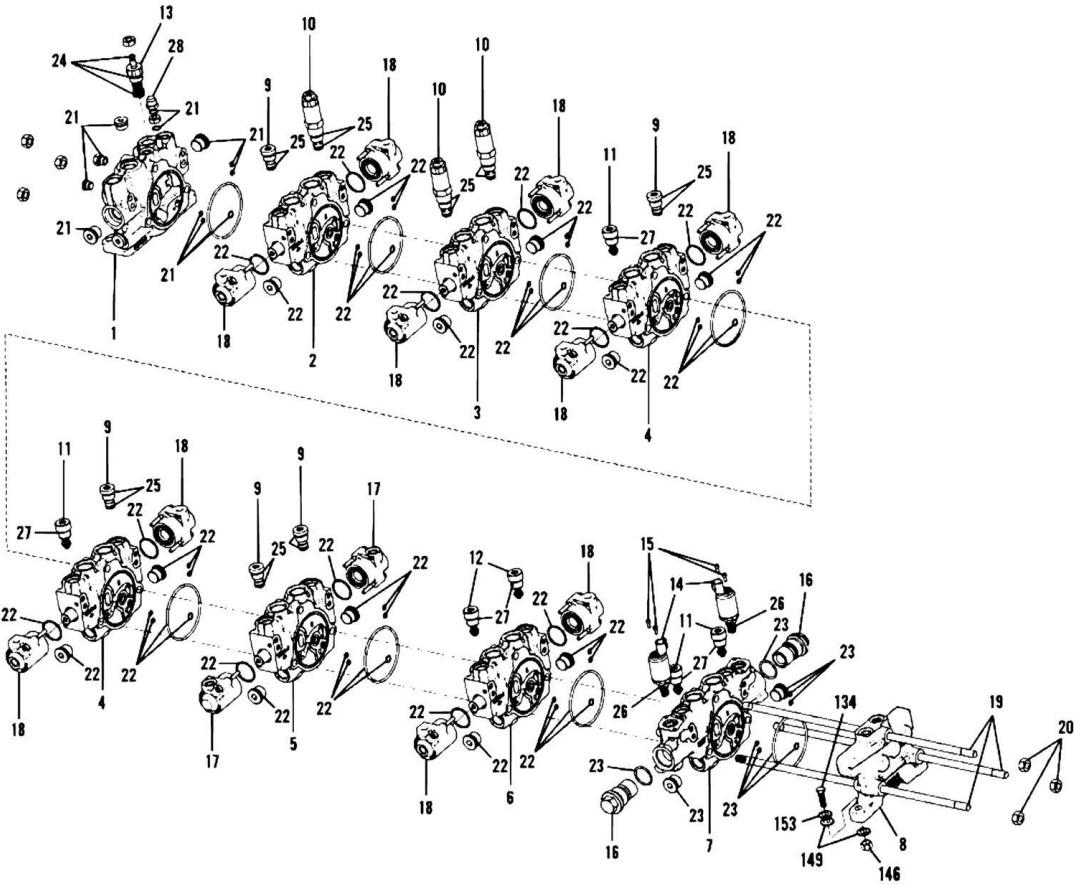
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-13. GRAPPLE BUCKET CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70021393	2	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	
101	70021364	2	CYLINDER PIN, (base end)	
102	70021365	2	CYLINDER PIN, (rod end)	
103	70021399	4	HEX HD CAPSCREW, 3/8X2-1/4	
104	70021367	4	LOCK NUT, 3/8	
K1	70021452	2	SEAL KIT, (includes items 6, 7, 9, 11 thru 13, 15 & 16)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-14. MAIN CONTROL VALVE



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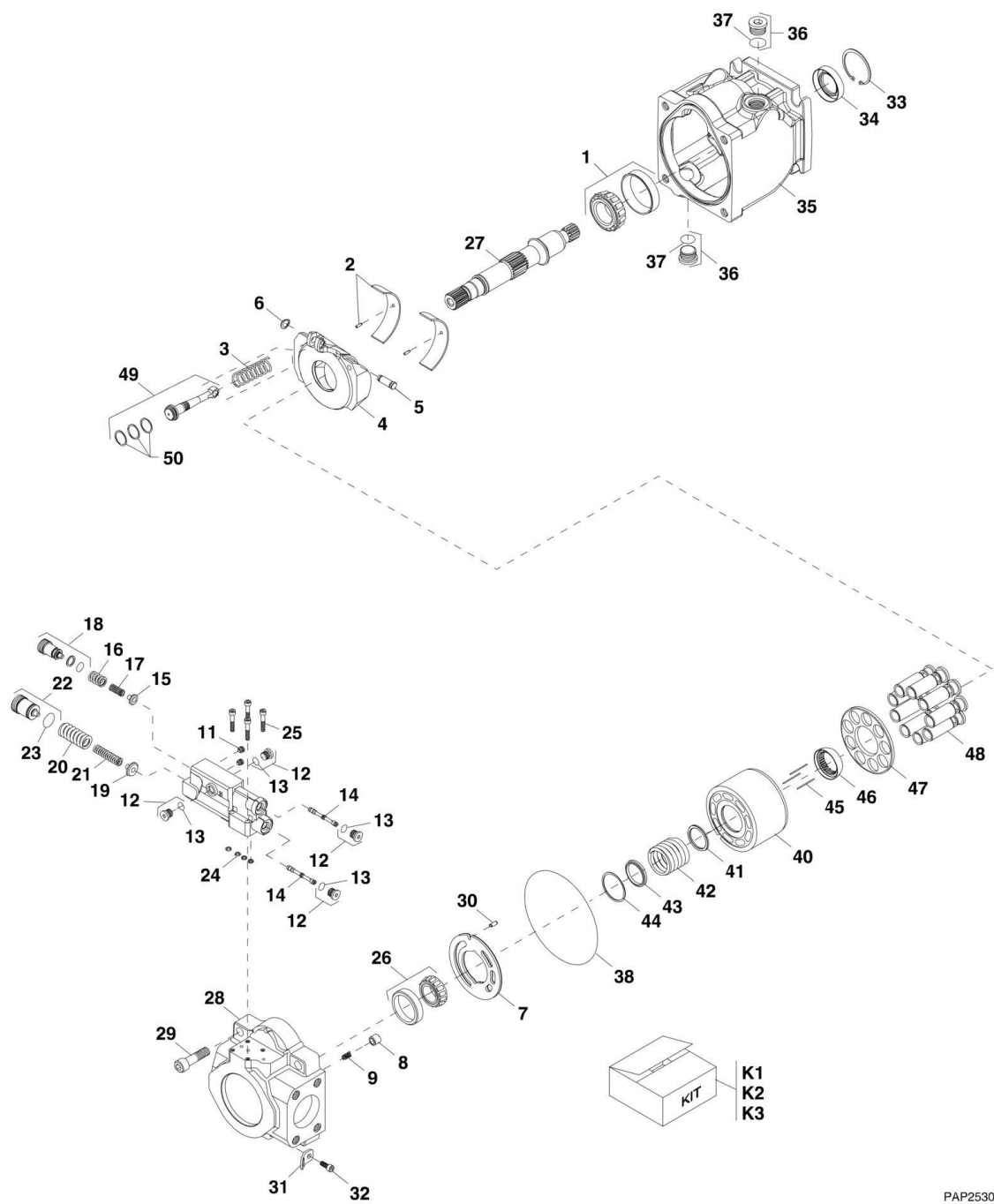
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-14. MAIN CONTROL VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001104918	1	MAIN CONTROL VALVE ASSY, (includes items 1 thru 28)	D
1	70022000	1	INLET SECTION ASSY, (includes items 21, 28 and all items required to replace the Inlet Section Assembly)	
2	70022001	1	SPOOL SECTION ASSY, LIFT, (includes items 18, 22 and all other seals required to replace one Lift Section Assembly)	
3	70022002	1	SPOOL SECTION ASSY, EXTEND/RETRACT, (includes items 18, 22 and all other seals required to replace one Crowd Section Assembly)	
4	70022003	2	SPOOL SECTION ASSY, OUTRIGGER, (includes items 18, 22 and all other seals required to replace one Outrigger Section Assembly)	
5	70022004	1	SPOOL SECTION ASSY, FRAME LEVEL, (includes items 17, 22 and all other seals required to replace one Sway Section Assembly)	
6	70022005	1	SPOOL SECTION ASSY, AUX, (includes items 18, 22 and all other seals required to replace one Aux Section Assembly)	
7	70022006	1	SPOOL SECTION ASSY, TILT, (includes items 14 thru 16, 23, 26 and all other seals required to replace one Tilt Section Assembly)	
8	70022007	1	OUTLET SECTION ASSY, (includes all items required to replace one Outlet Section Assembly)	
9	70022008	5	SHUT-OFF PLUG ASSY	
10	70022009	3	RELIEF VALVE, FULL FLOW	
11	70022010	4	RELIEF VALVE, 280	
12	70022011	2	RELIEF VALVE, 185	
13	70022012	1	DRAIN REGULATOR ASSY	
14	70022013	2	CARTRIDGE VALVE SOLENOID	
15	70022014	4	HEX HD CAPSCREW, METRIC	
16	70022015	2	END MECHANISM KIT, (includes all components and seals required to replace one End Mechanism)	
17	70022016	2	END MECHANISM PO KIT, (includes all components and seals required to replace one End Mechanism PO)	
18	70022017	10	SPOOL END GROUP, (includes all components and seals required to replace one Spool End)	
19	70022018	3	TIE ROD, METRIC	
20	70022019	6	TIE ROD NUT, METRIC	
21	70022020	1	INLET SEAL KIT	
22	70022021	1	PO SECTION SEAL KIT	
23	70022022	1	EH SECTION SEAL KIT	
24	8036508	1	DRAIN REGULATOR SEAL KIT	
25	70022023	1	SHUT-OFF PLUG/FULL FLOW RV SEAL KIT	
26	70022024	1	PPRV SEAL KIT	
27	70022025	1	O-RING	
28	10791807	1	SPECIAL NUT	
134	0641614	3	HEX HD CAPSCREW, 3/8-16X1-3/4, GR5	
146	3311601	3	HEX NUT, 3/8-16	
149	4711600	6	FLAT WASHER, 3/8	
153	4761600	3	LOCKWASHER, 3/8	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-15. PISTON PUMP



PAP2530

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-15. PISTON PUMP

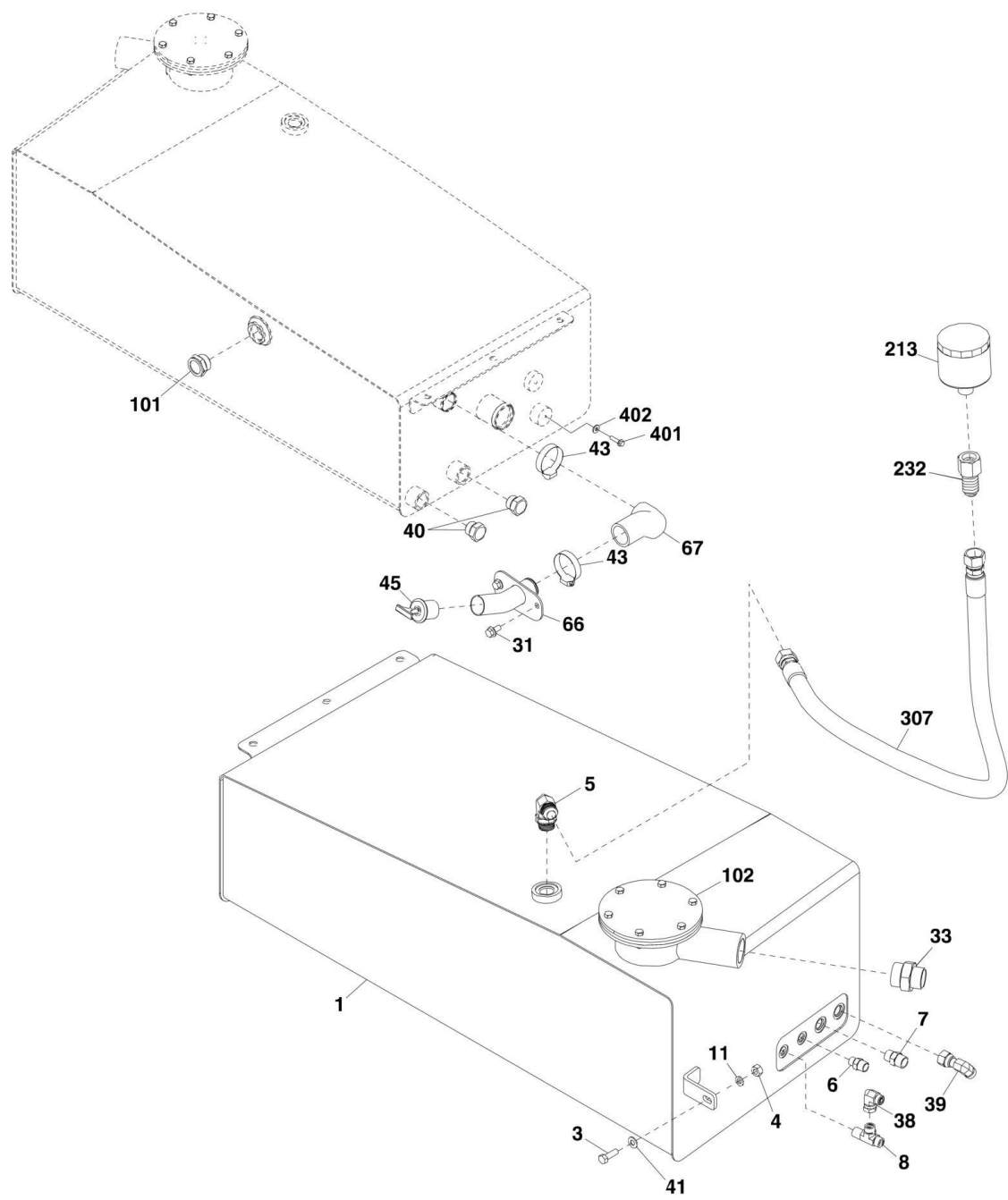
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001105613	1	PISTON PUMP, (includes all items)	C
1	70002578	1	FRONT BEARING KIT	
2	70002579	1	SWATCH PLATE BEARING KIT	
3	70002580	1	SPRING	
4	70002581	1	SWASH PLATE	
5	70002582	1	RETAINER SHAFT	
6	70002583	1	RETAING RING	
7	70023349	1	LH VALVE PLATE	
8	70001956	1	CHECK VALVE POPPET	
9	70001955	1	SPRING	
11	70023351	2	SET SCREW	
12	70002133	4	PLUG	
13	7007207	8	O-RING	
14	70023352	2	SPOOL	
15	70023353	1	SPRING GUIDE, LS	
16	70023354	1	OUTER SPRING, LS	
17	70023355	1	INNER SPRING, LS	
18	70023356	2	ADJUSTING PLUG, LS	
19	70023357	1	SPRING GUIDE, PC	
20	70023358	1	OUTER SPRING, PC	
21	70023359	1	INNER SPRING, PC	
22	70023360	1	ADJUSTING PLUG, PC	
23	70023361	2	O-RING	
24	70023362	8	SEAL RING	
25	70023363	4	SCREW	
26	70002585	1	REAR BEARING KIT	
27	70023364	1	SHAFT	
28	70023365	1	RADIAL END CAP	
29	70002588	4	SCREW	
30	7007446	1	SLOTTED PIN	
31	7022340	1	LIFTING BRACKET	
32	70002590	1	SCREW	
33	7023962	1	RETAINING RING	
34	70022287	2	LIP SEAL	
35	70022288	1	HOUSING	
36	7023964	2	PLUG	
37	7007415	4	O-RING	
38	70002595	2	END CAP SEAL	
40	70023366	1	CYLINDER BLOCK	
41	7007429	1	SPRING SEAT	
42	70002591	1	SPRING	
43	7007427	1	SPRING SEAT	
44	7007426	1	RETAINING RING	
45	7021275	3	HOLD DOWN PIN	
46	70002592	1	SLIPPER RETAINER GUIDE	
47	70002593	1	SLIPPER RETAINER	
48	70002594	9	PISTON ASSY	
49	70023367	1	SERVO PISTON ASSY	
50	70002598	6	PISTON RING	
K1	70023350	1	CONTROL KIT, (includes items 11 thru 25)	

SECTION 9 - HYDRAULIC COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
K2	70002596	1	CYLINDER BLOCK KIT, (includes items 40 thru 48)	
K3	70002599	1	OVERHAUL SEAL KIT	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-16. HYDRAULIC TANK



PAP25880

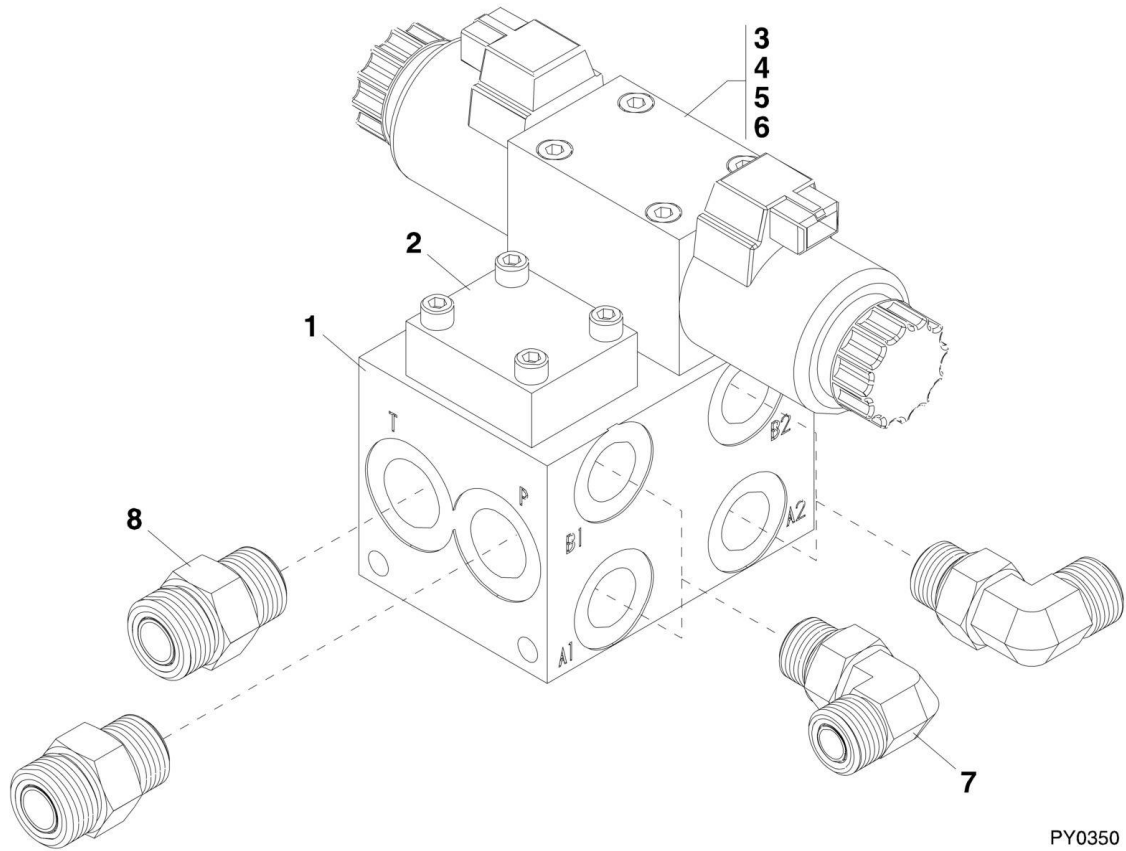
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-16. HYDRAULIC TANK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	1001119900	1	HYDRAULIC TANK, (includes items 101 & 102)	H
3	0811610	1	SCREW, 3/8-16X1-1/4	
4	88501006	1	HEX NUT, 3/8-16	
5	2220578	1	ADAPTER, 90, (includes o-ring)	
6	2110606	1	STRAIGHT FITTING, (includes o-ring)	
7	2110808	1	STRAIGHT FITTING, (includes o-ring)	
8	2170306	1	ADAPTER, RUN TEE, (includes o-ring)	
11	4761600	1	LOCKWASHER, 3/8	
31	0811606	2	SCREW, 3/8-16X3/4	
33	2111620	1	STRAIGHT FITTING, (includes o-ring)	
38	2172106	1	ADAPTER, 90, (includes o-ring)	
39	2170210	1	ADAPTER, 90, (includes o-ring)	
40	2220240	2	PLUG, (includes o-ring)	
41	4751600	1	WASHER, 3/8	
43	8405104	2	CLAMP, 2-1/4 IN	
45	91403579	1	CAP	
66	1001136981	1	FILL PIPE	
67	1001128110	1	FILL HOSE	
101	70024153	1	SIGHT GAUGE	
102	70024152	1	FILTER KIT, (includes filter and gasket)	
213	1340021	1	AIR BREATHER	
232	91163100	1	ADAPTER	
307	2752661	1	HOSE ASSY	
401	0811612	1	SCREW, 3/8-16X1-1/2	
402	10701277	1	WASHER, 3/8	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-17. STEER SELECT VALVE



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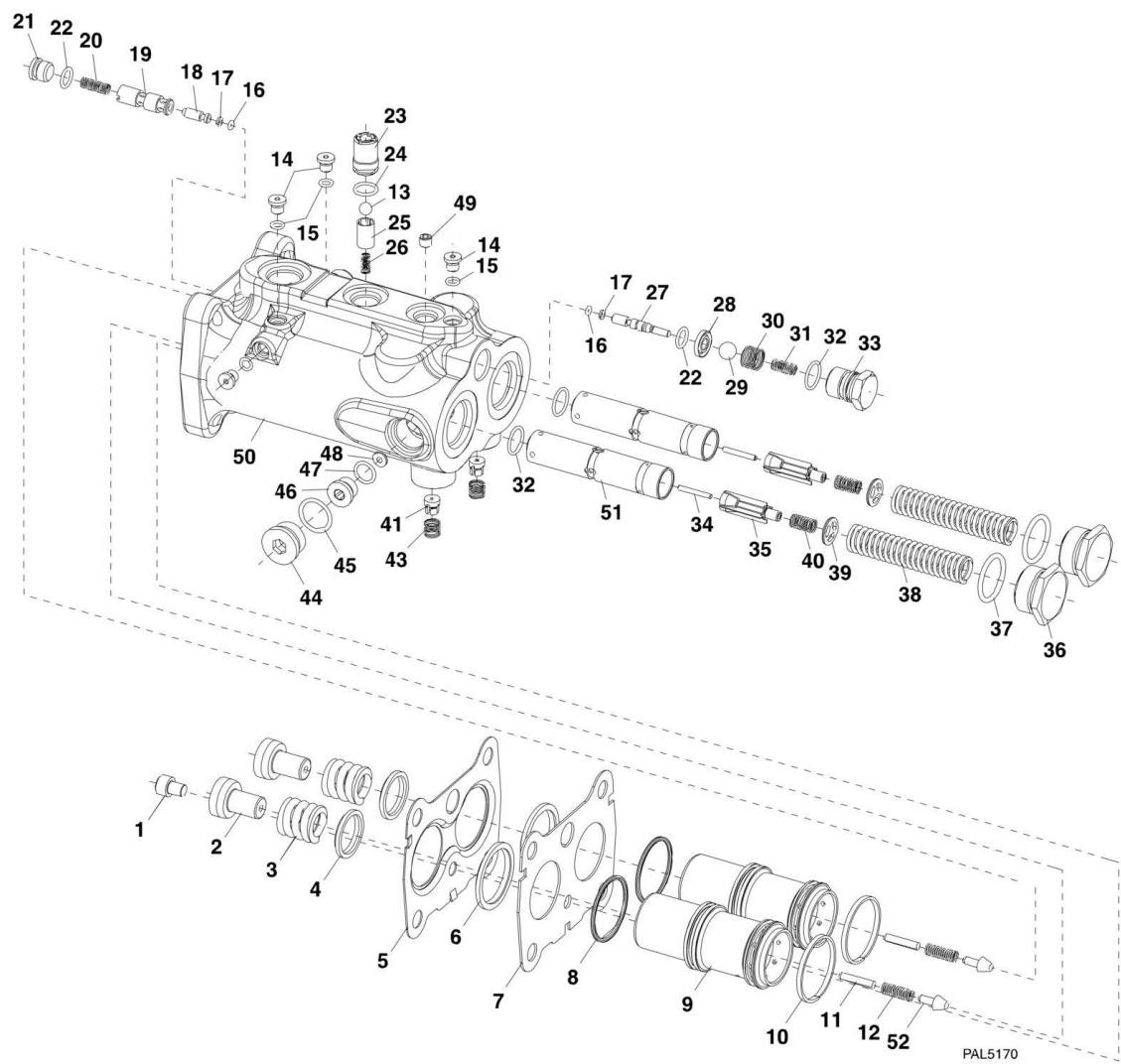
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-17. STEER SELECT VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001001016	1	STEERING SELECT VALVE, (includes all items)	C
1	7029915	1	STEERING MANIFOLD	
2	7029916	1	COVER PLATE	
3	91474402	1	DIRECTIONAL CONTROL VALVE, (includes items 4 thru 6)	
4	91474407	2	COIL	
5	7029917	2	NUT	
6	7012773	1	SEAL KIT	
7	88662065	4	ELBOW, 90, (includes o-ring)	
8	88662019	2	CONNECTOR, (includes o-ring)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-18. BRAKE VALVE



SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-18. BRAKE VALVE

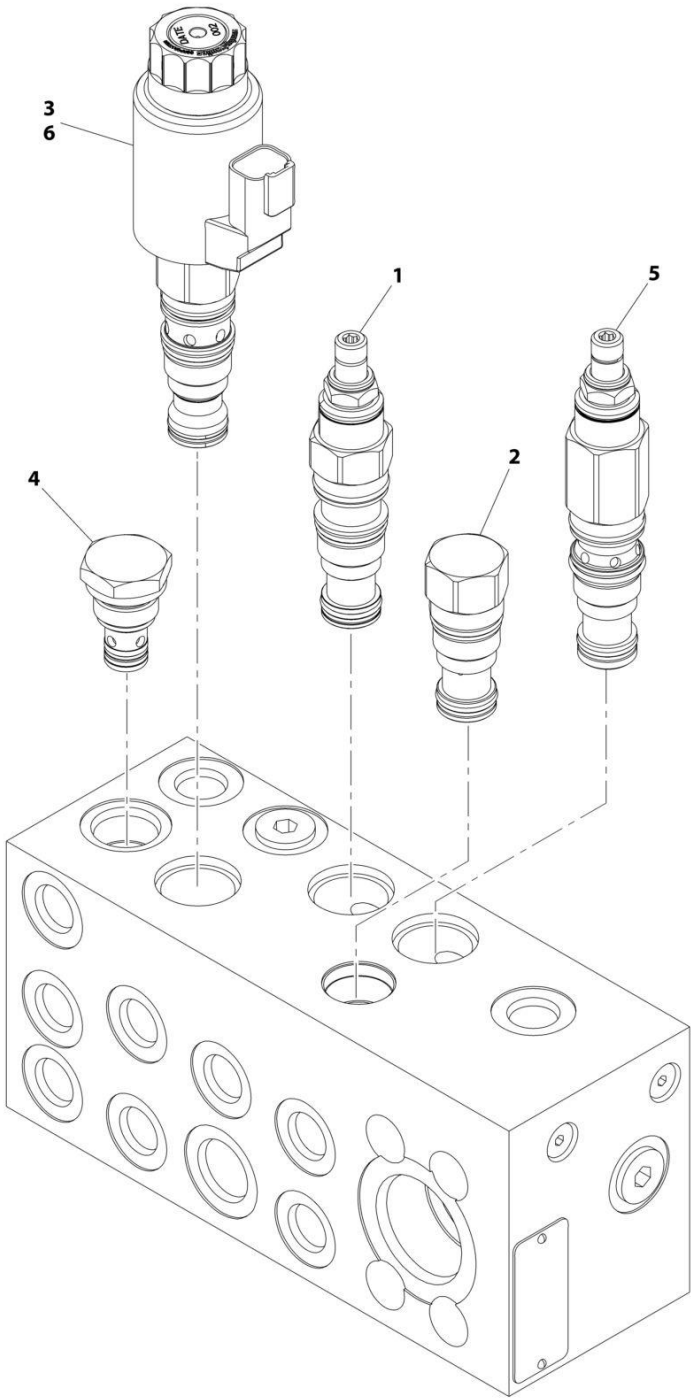
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001106836	1	BRAKE VALVE, (includes items 1 thru 52)	A
1	91474454	1	SCREW	
2	91474442	2	PIN	
3	70020659	2	SPRING	
4	91474441	2	WIPER	
5	70020660	1	COVER	
6	91474440	2	WIPER	
7	70020661	1	COVER	
8	91474439	2	QUAD RING	
9	70020662	2	PISTON	
10	70020663	2	PISTON RING	
11	70023037	2	PIN	
12	91474438	2	SPRING	
13	91474452	1	BALL	
14	91474450	4	PLUG	
15	91474451	4	O-RING	
16	91474453	2	O-RING	
17	91514199	2	BACKUP RING	
18	91474455	1	DUMP PISTON	
19	91474456	1	DUMP SPOOL	
20	70020665	1	SPRING	
21	91474458	1	PLUG	
22	91514198	2	O-RING	
23	70020666	1	INLET SEAT	
24	70020667	1	O-RING	
25	70020668	1	RETAINER	
26	70020669	1	SPRING	
27	91474447	1	PISTON	
28	91474446	1	SEAT	
29	70020670	1	BALL	
30	70020671	1	SPRING	
31	70020672	1	SPRING	
32	91514197	3	O-RING	
33	91474443	1	PLUG	
34	70020673	2	NEEDLE ROLLER	
35	70020674	2	MAKE-UP CHECK	
36	91474434	2	PLUG	
37	91474435	2	O-RING	
38	70020675	2	SPRING	
39	70020676	2	SPRING GUIDE	
40	70020677	2	SPRING	
41	70020678	2	ORIFICE	
43	70020679	2	SPRING	
44	91474459	1	PLUG	
45	91474460	1	O-RING	
46	70020680	1	PLUG	
47	70020681	1	O-RING	
48	70020682	1	ORIFICE	
49	70023039	1	ORIFICE	
50	N.S.S.	1	HOUSING	

SECTION 9 - HYDRAULIC COMPONENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	N.S.S.	1	SPOOL	
52	70023038	2	POPPET	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-19. HYDRAULIC MANIFOLD VALVE



ART_91563190-E

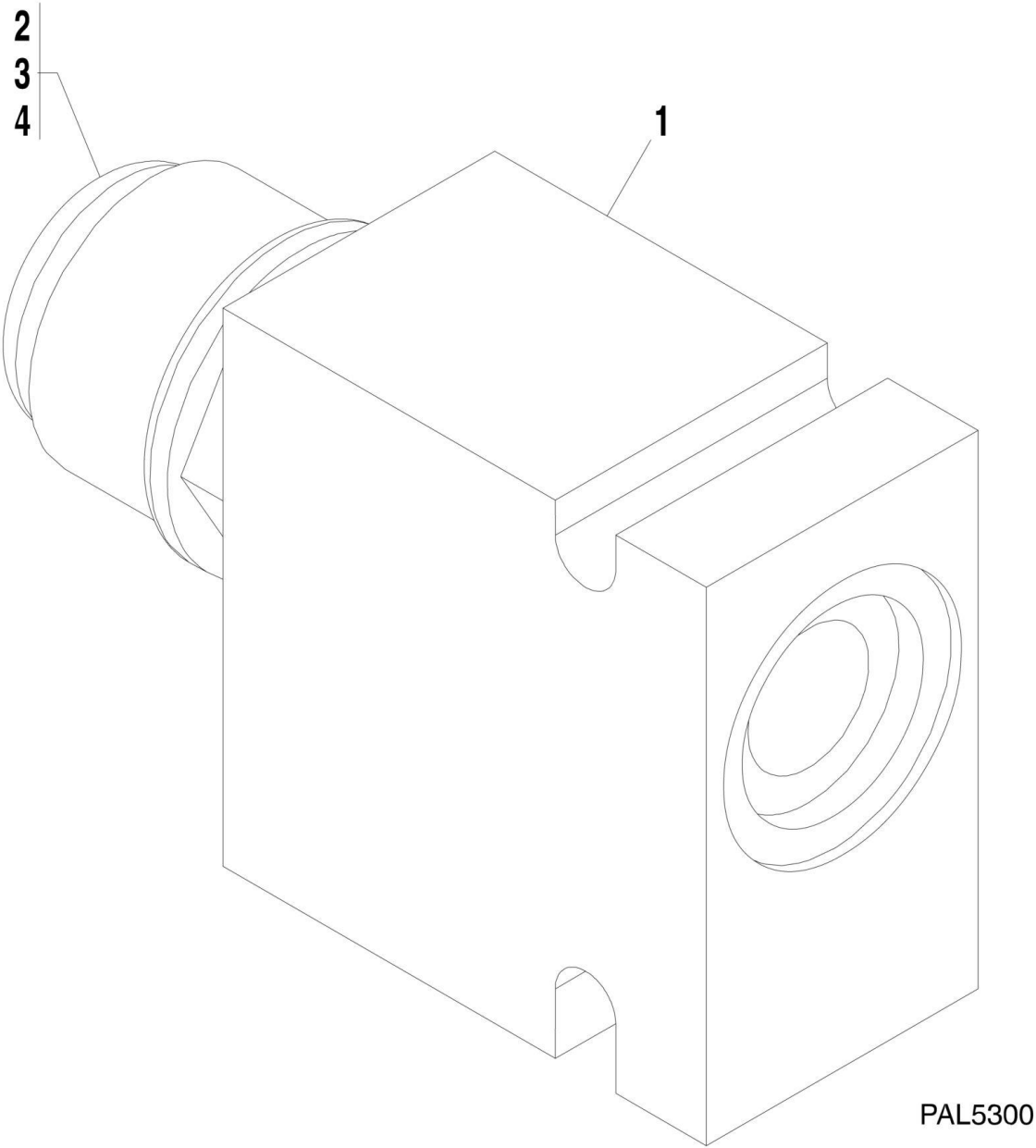
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-19. HYDRAULIC MANIFOLD VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91563190	1	HYDRAULIC MANIFOLD VALVE, (includes all items)	E
1	7026998	1	PRESSURE REDUCING VALVE	
2	7026999	1	CHECK VALVE	
3	70023992	1	SOLENOID VALVE (Prior to SN 0160062852)	
3	7026022	1	SOLENOID VALVE (SN 0160062852 to Present)	
4	7018300	1	SHUTTLE VALVE	
5	7027100	1	PRESSURE REDUCING VALVE	
6	80434249	1	COIL, (Prior to SN 0160062852)	
6	70026348	1	COIL, (SN 0160062852 to Present)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-20. DECOMPRESSION VALVE



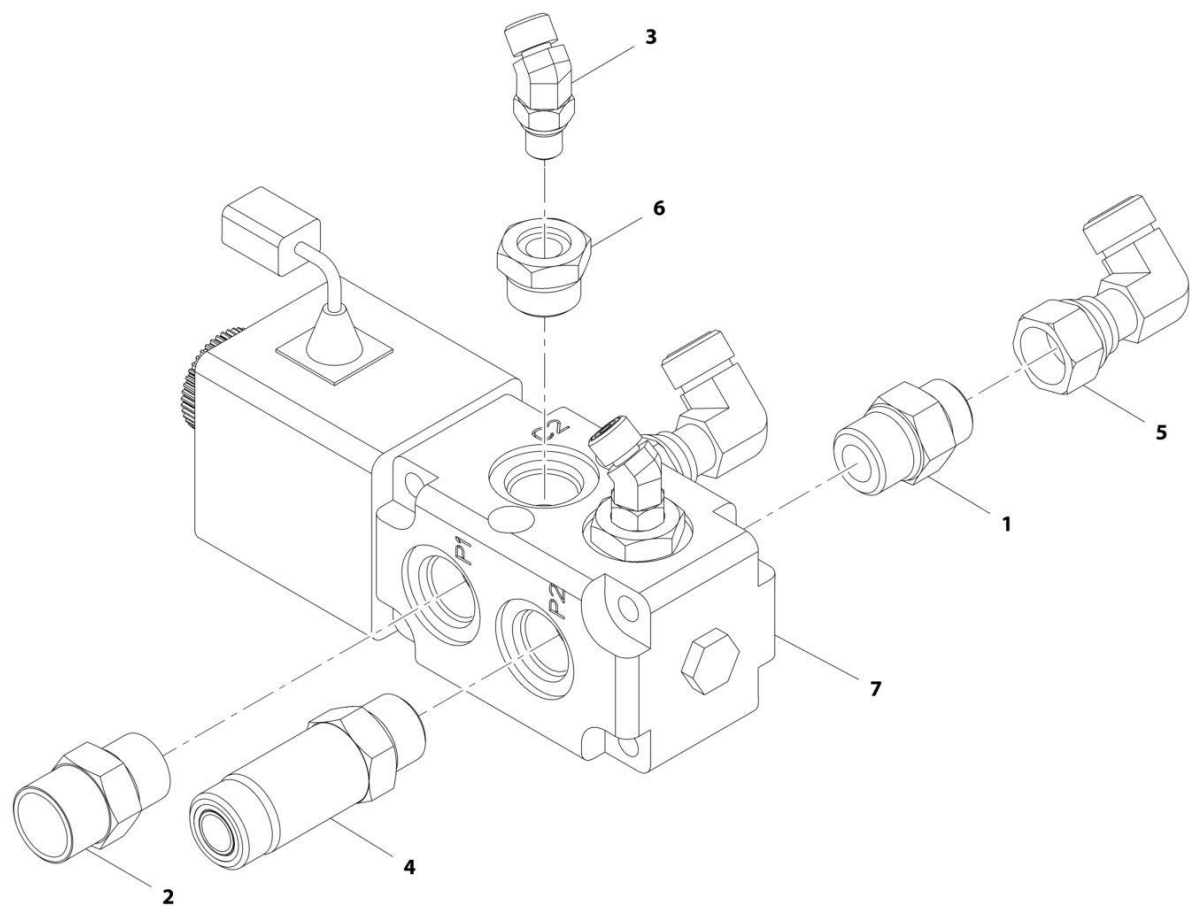
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-20. DECOMPRESSION VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91503093	1	DECOMPRESSION VALVE, (includes all items)	A
1	91504056	1	VALVE BODY	
2	91504057	1	VALVE, (includes items 3 & 4)	
3	91504058	1	SEAL KIT	
4	91504059	1	PUSH BUTTON	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-21. QUICK ATTACH VALVE



ART_1001127006-A

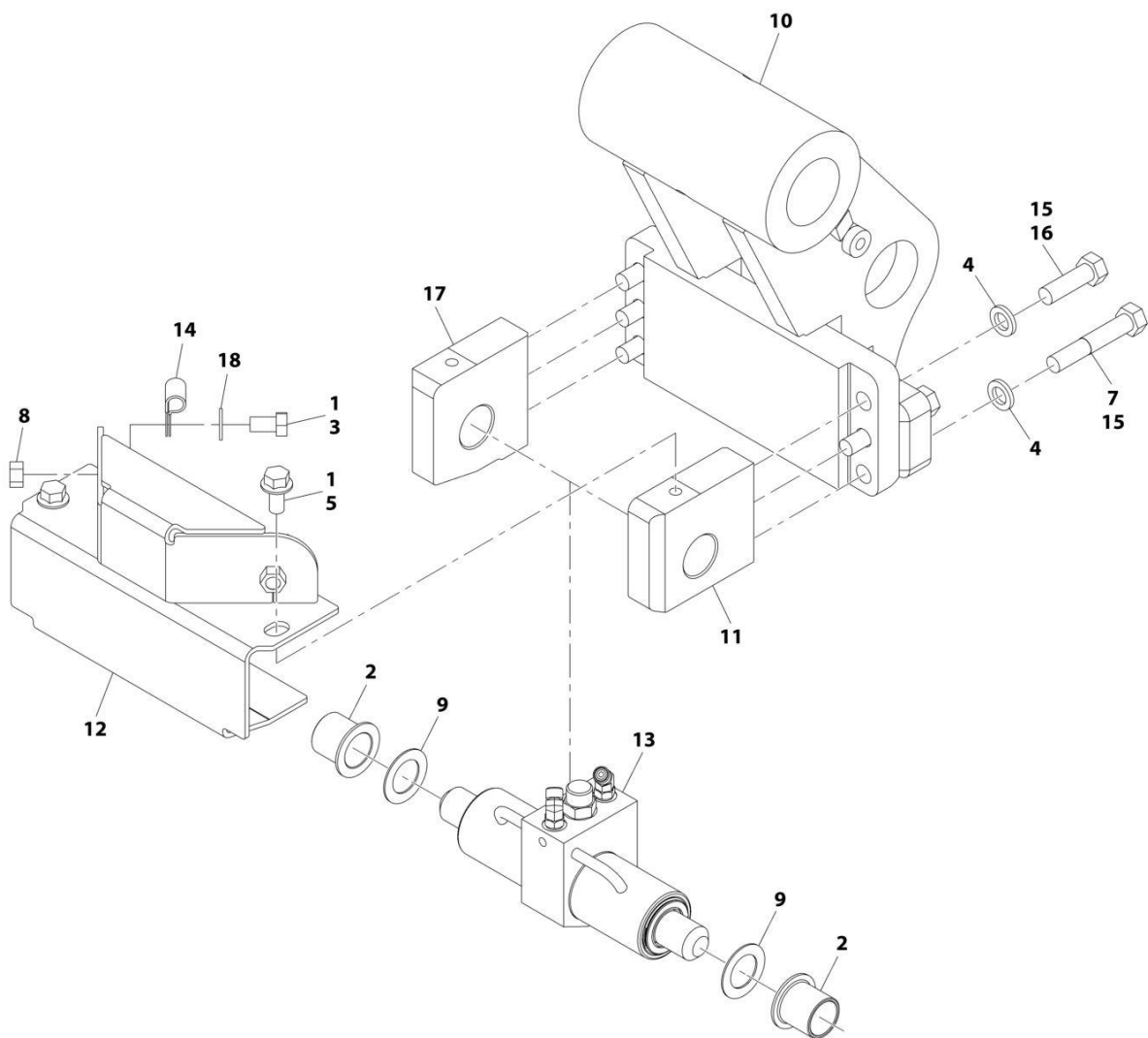
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-21. QUICK ATTACH VAVLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001127006	Ref	QUICK ATTACH VAVLE	A
1	2110810	2	STRAIGHT FITTING	
2	2111010	1	STRAIGHT FITTING	
3	2150404	2	ADAPTER, 45	
4	2170110	1	STRAIGHT FITTING	
5	2172108	2	ADAPTER, 90	
6	1001001568	2	STRAIGHT FITTING	
7	1001104477	1	DIVERTOR VALVE (See Separate Breakdown in this Section)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-22. QUICK ATTACH INSTALLATION, G SERIES



ART_1001120135-C

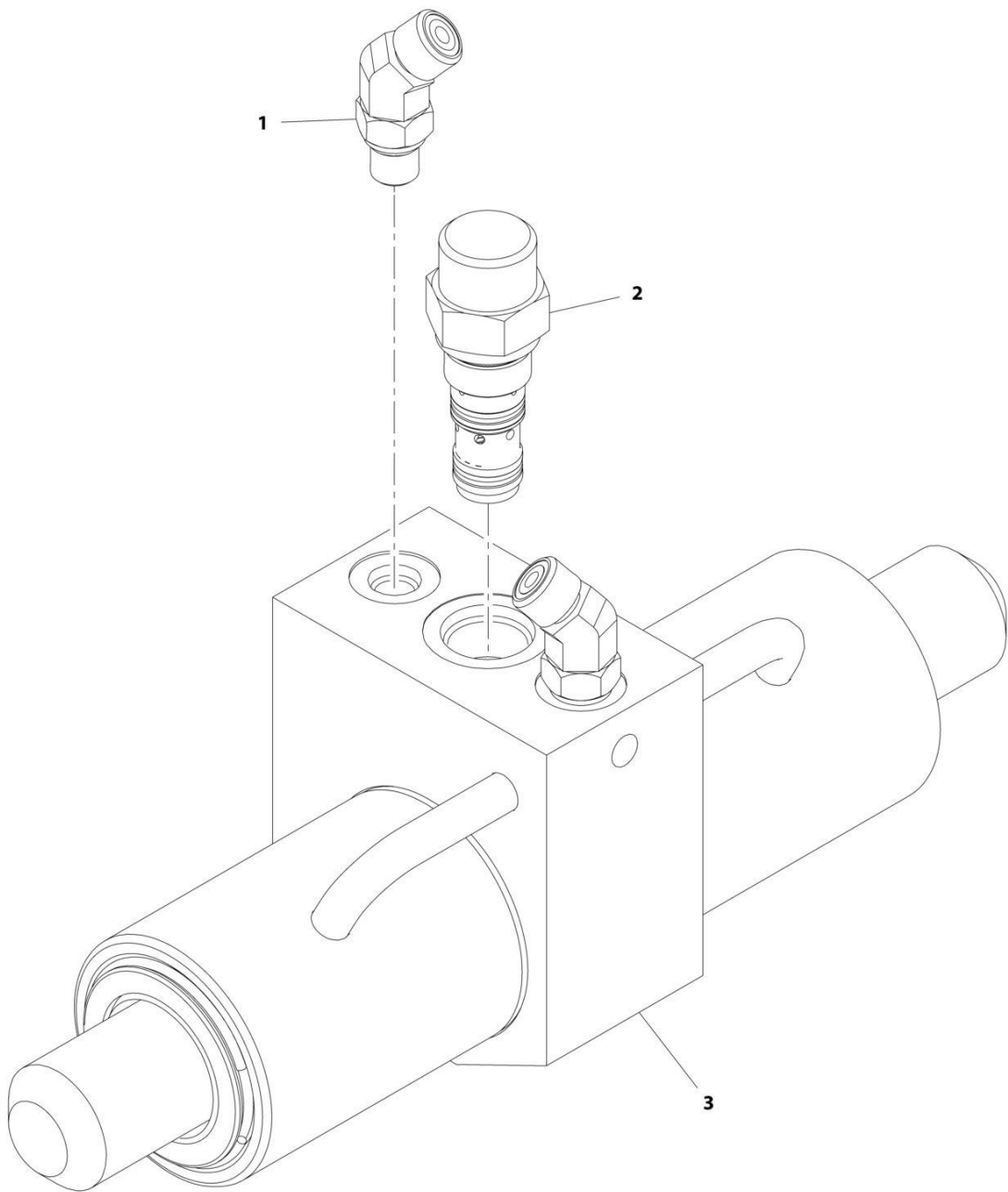
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-22. QUICK ATTACH INSTALLATION, G SERIES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001120135	Ref	QUICK ATTACH INSTALLATION, G SERIES	C
1	0100011	AR	LOCTITE, 242	
2	0440321	2	BEARING, FLANGE	
3	0641807	2	HEX HD CAP SCREW, 1/2-13X7/8	
4	4762000	6	WASHER, 5/8	
5	0791808	2	SCREW, 1/2-13X1	
7	10700689	4	SCREW CAP, 0.625-18X3.5	
8	3311805	2	HEX LOCKNUT, 1/2-13, GR2	
9	91561240	AR	SHIM	
10	1001120120	1	ADAPTER	
11	1001120124	1	PLATE, CYLINDER ATTACHMENT (left)	
12	1001120130	1	COVER, CYLINDER	
13	1001120164	1	CYLINDER, QUICK ATTACH ASSEMBLY (See Separate Breakdown in this Section)	
14	1001080996	2	CLAMP	
15	0100019	AR	LOCTITE, 271	
16	10700683	2	SCREW CAP, 0.625-18X2	
17	1001145386	1	PLATE, CYLINDER ATTACHMENT (right)	
18	4711800	2	WASHER, 1/2	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-23. CYLINDER - QUICK ATTACH ASSEMBLY



ART_1001120164-A

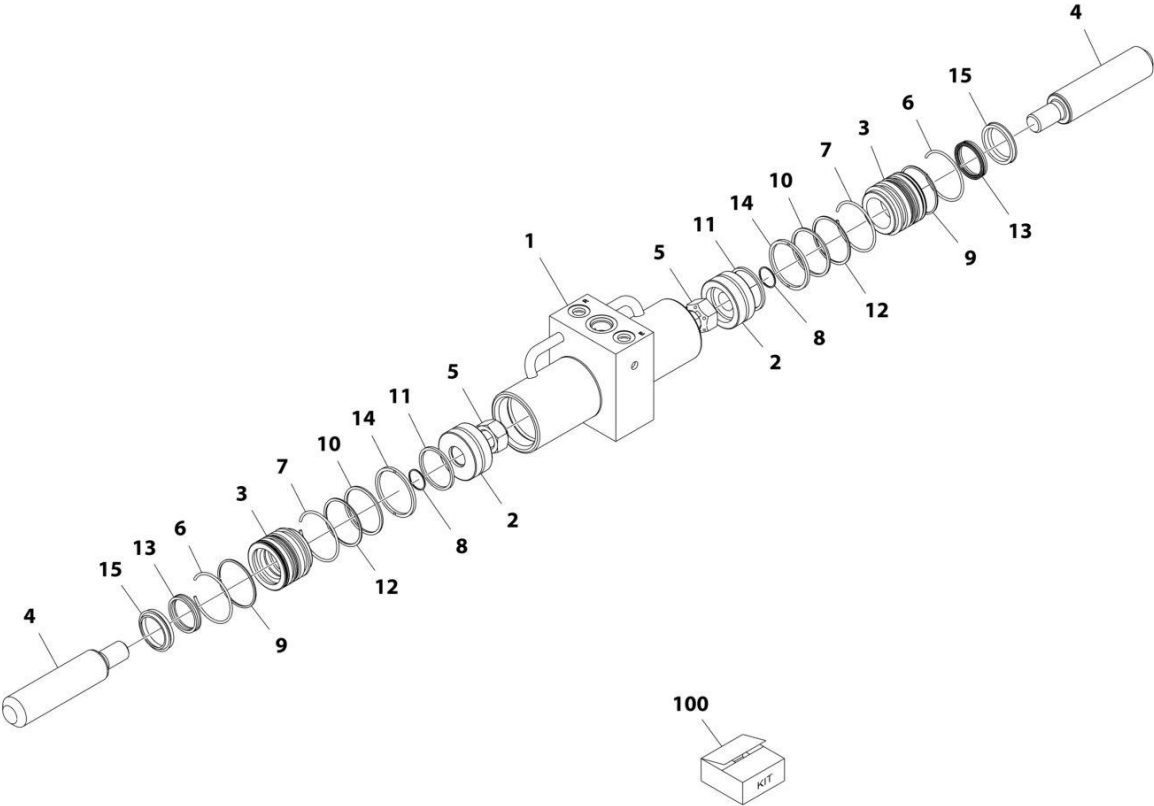
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-23. CYLINDER - QUICK ATTACH ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001120164	Ref	CYLINDER, QUICK ATTACH ASSEMBLY	A
1	2150404	2	ADAPTER, 45	
2	1001007056	1	VALVE	
3	1001120163	1	QUICK COUPLER CYLINDER (See Separate Breakdown in this Section)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-24. QUICK COUPLER CYLINDER



ART_1001120163-D

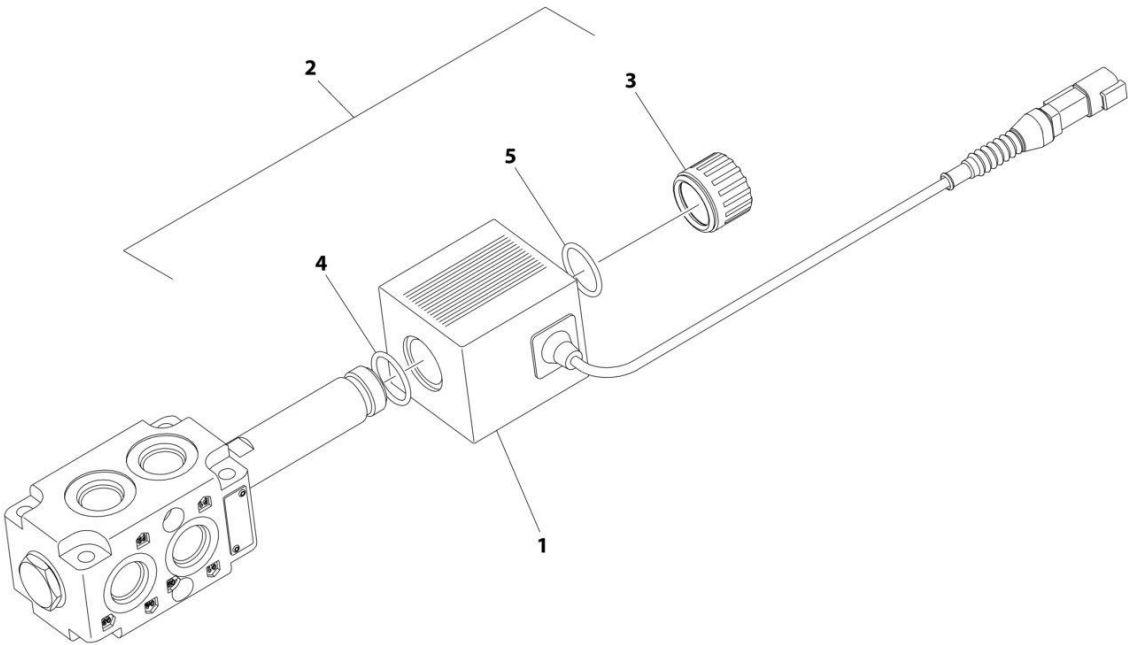
SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-24. QUICK COUPLER CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001120163	Ref	QUICK COUPLER CYLINDER	D
1	70026211	1	BARREL	
2	70026212	2	PISTON	
3	70026213	2	GLAND, HEAD	
4	70026214	2	ROD, CYLINDER	
5	8037140	2	NUT, LOCK	
6	Kit	2	RING, RETAINING ROUND	
7	Kit	2	RING, RETAINING ROUND	
8	Kit	2	O-RING	
9	Kit	2	O-RING	
10	Kit	2	O-RING	
11	Kit	2	RING, SQUARE	
12	Kit	2	RING, BACKUP	
13	Kit	2	SEAL, ROD	
14	Kit	2	SEAL, PISTON	
15	Kit	2	WIPER, ROD	
100	70026215	1	KIT, SEAL (includes item 6 thru 15)	

SECTION 9 - HYDRAULIC COMPONENTS

FIGURE 9-25. DIVERTOR VALVE



ART_1001104477

SECTION 9 - HYDRAULIC COMPONENTS

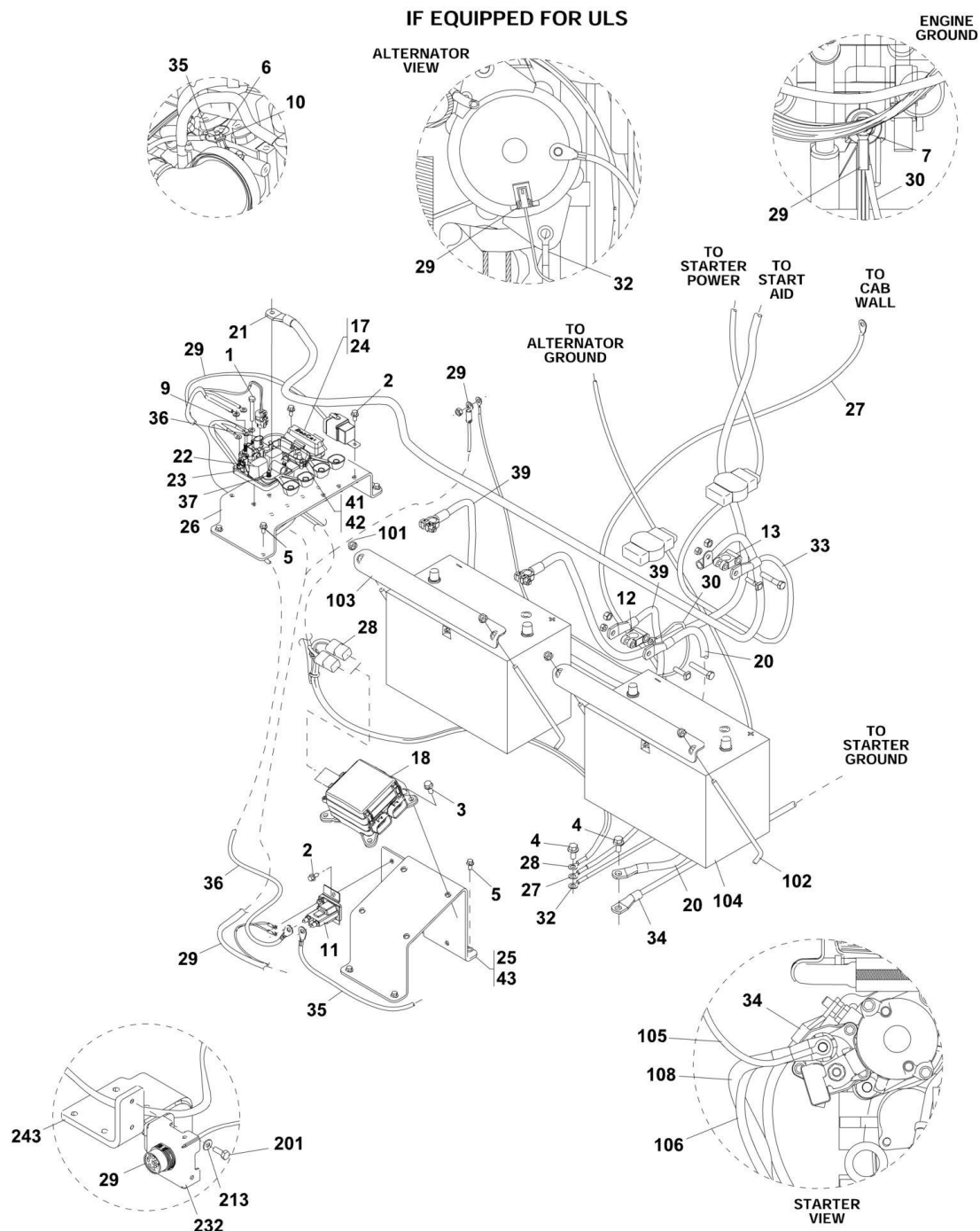
FIGURE 9-25. DIVERTOR VALVE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001104477	Ref	DIVERTOR VALVE	D
1	70020764	1	COIL	
2	70021531	1	KIT, RETAINER	
3	N.S.S.	1	NUT	
4	N.S.S.	1	O-RING	
5	N.S.S.	1	O-RING	

SECTION 10 - ELECTRICAL

SECTION 10 - ELECTRICAL

FIGURE 10-1. ENGINE COMPARTMENT ELECTRICAL INSTALLATION



SECTION 10 - ELECTRICAL

FIGURE 10-1. ENGINE COMPARTMENT ELECTRICAL INSTALLATION

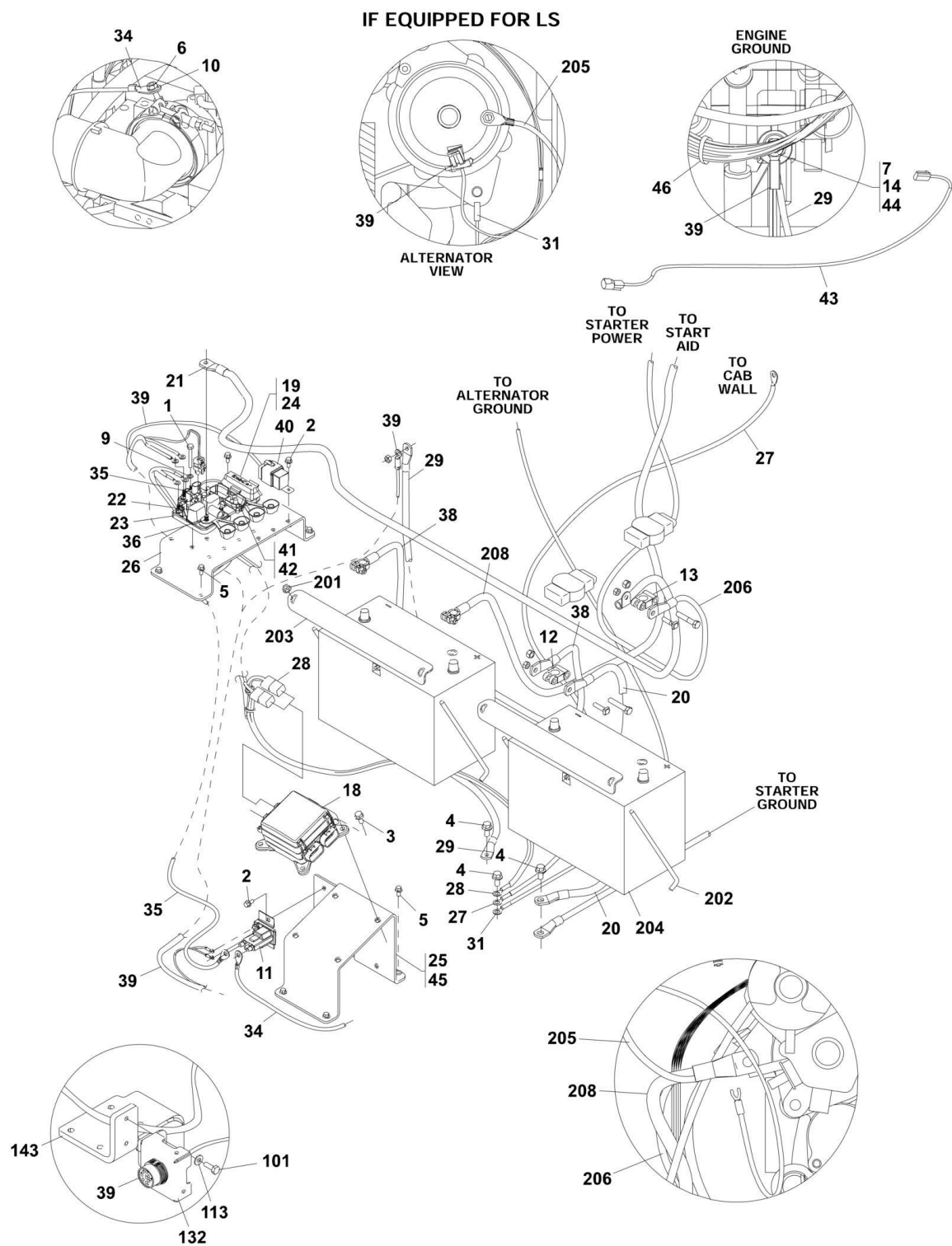
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001130159	Ref	ELECTRICAL COMPONENTS INSTALLATION, (if equipped for ULS), (not available to order, see items 1 thru 44 for service)	L
1	0641415	2	HEX HD CAPSCREW, 1/4-20X1-7/8	
2	0791404	5	WHIZ-LOK SCREW, 1/4-20X1/2	
3	0791506	4	WHIZ-LOK SCREW, 5/16-18X3/4	
4	0791606	3	WHIZ-LOK SCREW, 3/8-16X3/4	
5	0811606	8	SCREW, 3/8-16X3/4	
6	3290601	1	HEX NUT, M6X1	
7	3290801	1	HEX NUT, M8X1.25	
9	4761400	2	LOCKWASHER, 1/4	
10	4811700	1	WASHER, 6mm	
11	8225122	1	RELAY, 12VDC, 100A	
12	1001148992	1	BATTERY CLAMP, NEGATIVE	
13	1001148991	1	BATTERY CLAMP, POSITIVE	
17	1001118245	1	FUSE, 250 AMP	
18	1001108433	1	CONTROL, VEC MODULE	
18	70024843	4	RELAY, 12V 30AMP	
20	1001145301	1	BATTERY CABLE, NEGATIVE	
21	1001127488	1	BATTERY CABLE, POSITIVE	
22	1001163729	1	POWER MODULE RELAY	
23	1001127699	1	POWER MODULE FUSE	
24	1001127700	1	FUSE HOLDER	
25	1001127748	1	VEC BOX MOUNT	
26	1001127756	1	ELECTRONICS MOUNT	
27	1001129277	1	CAB GROUND CABLE	
28		Ref	VEC HARNESS, (See VEC HARNESS for Breakdown)	
29		Ref	ENGINE HARNESS, (See ENGINE HARNESS for Breakdown)	
30	1001143377	1	ENGINE GROUND CABLE	
32	1001134232	1	ALTERNATOR GROUND	
34	1001134234	1	STARTER GROUND	
35	1001134235	1	GRID HEATER POWER	
36	1001134236	1	GRID HEATER FUSE POWER CABLE	
37	1001134470	1	BUSS BAR CONNECTOR	
39	1001135349	1	START AID CABLE, NEGATIVE	
41	0641506	1	HEX HD CAPSCREW, 5/16-18X3/4, GR5	
42	8310453	1	HEX NUT, 5/16-18, GR5	
43	90206198	7 in	TRIM-LOK	
44	4240018	3	TIE STRAP, (not shown)	
	1001141965	Ref	DUAL BATTERY INSTALLATION, (not available to order, see items 101 thru 108 for service)	D
101	3311508	4	HEX NUT, 16-18	
102	91081640	4	BATTERY HOLD DOWN BOLT	
103	91401281	2	BATTERY HOLD DOWN BRACKET	
104	1001155219	2	12V BATTERY	
105	1001134231	1	ALTERNATOR POWER CABLE	
106	1001134233	1	STARTER POWER CABLE	
108	1001135348	1	START AID CABLE, POSITIVE	
201	0641406	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
213	4711400	2	WASHER, 1/4	
232	1001115884	1	CONNECTOR BRACKET	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
243		Ref	FILTER BRACKET, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	

SECTION 10 - ELECTRICAL

FIGURE 10-2. ENGINE COMPARTMENT ELECTRICAL INSTALLATION



SECTION 10 - ELECTRICAL

FIGURE 10-2. ENGINE COMPARTMENT ELECTRICAL INSTALLATION

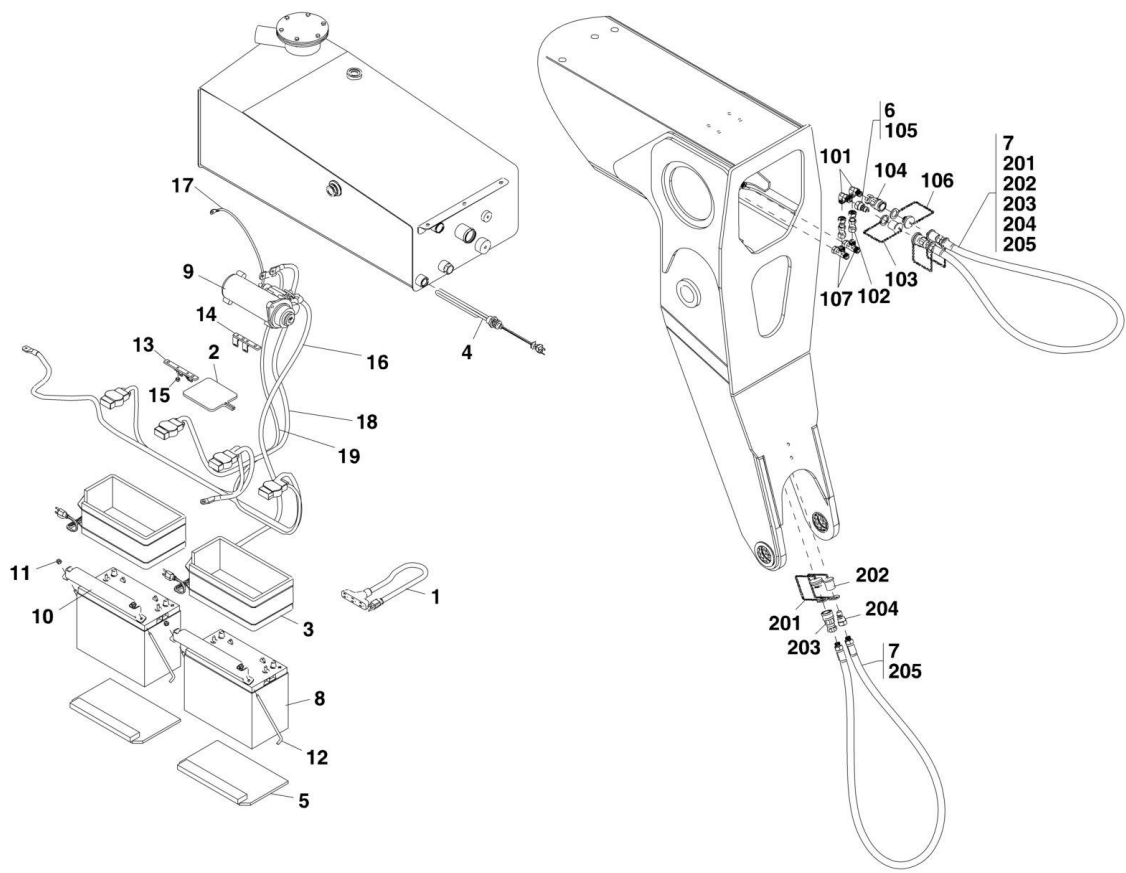
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001139873	Ref	ELECTRICAL COMPONENTS INSTALLATION, (if equipped for LS), (not available to order, see items 1 thru 46 for service)	I
1	0641415	2	HEX HD CAPSCREW, 1/4-20X1-7/8	
2	0791404	5	WHIZ-LOK SCREW, 1/4-20X1/2	
3	0791506	4	WHIZ-LOK SCREW, 5/16-18X3/4	
4	0791606	3	WHIZ-LOK SCREW, 3/8-16X3/4	
5	0811606	8	HEX FLANGE SCREW, 3/8-16X3/4	
6	3290601	1	HEX NUT, M6X1	
7	3290801	1	HEX NUT, M8X1.25	
9	4761400	2	LOCKWASHER, 1/4	
10	4811700	1	WASHER, 6mm	
11	8225122	1	RELAY, 12VDC, 100A	
12	1001148992	1	BATTERY CLAMP, NEGATIVE	
13	1001148991	1	BATTERY CLAMP, POSITIVE	
14	8310647	1	LOCKWASHER, #M8	
18	1001108433	1	VEC CONTROL MODULE	
19	1001118245	1	FUSE, 250 AMP	
20	1001145301	1	BATTERY CABLE, NEGATIVE	
21	1001127488	1	BATTERY CABLE, POSITIVE	
22	1001163729	1	POWER MODULE RELAY	
23	1001127699	1	POWER MODULE FUSE	
24	1001127700	1	FUSE HOLDER	
25	1001127748	1	VEC BOX MOUNT	
26	1001127756	1	ELECTRONICS MOUNT	
27	1001129277	1	CAB GROUND CABLE	
28		Ref	VEC HARNESS, (See VEC HARNESS for Breakdown)	
29	1001143377	1	ENGINE GROUND CABLE	
31	1001134232	1	ALTERNATOR GROUND	
34	1001134235	1	GRID HEATER POWER	
35	1001134236	1	GRID HEATER FUSE POWER CABLE	
36	1001134470	1	BUSS BAR CONNECTOR	
38	1001135349	1	START AID CABLE, NEGATIVE	
39		Ref	ENGINE HARNESS, (See ENGINE HARNESS for Breakdown)	
40	1001117025	1	CONNECTOR PLUG WITH RELAY	
41	0641506	1	HEX HD CAPSCREW, 5/16-18X3/4	
42	8310453	1	HEX NUT, 5/16-18	
43	1001127519	1	WATER IN FUEL HARNESS	
44	4811900	1	WASHER, #M8	
45	90206198	7 in	TRIM-LOK	
46	4240018	3	TIE STRAP	
101	0641406	2	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
113	4711400	2	WASHER, 1/4	
132	1001115884	1	CONNECTOR BRACKET	
143		Ref	FILTER BRACKET, (See ENGINE AND ATTACHING PARTS SECTION for Breakdown)	
	1001141965	Ref	DUAL BATTERY INSTALLATION, (not available to order, see items 201 thru 208 for service)	D
201	3311508	4	HEX NUT, 16-18	
202	91081640	4	BATTERY HOLD DOWN BOLT	
203	91401281	2	BATTERY HOLD DOWN BRACKET	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
204	1001155219	2	12V BATTERY	
205	1001134231	1	ALTERNATOR POWER CABLE	
206	1001134233	1	STARTER POWER CABLE	
208	1001135348	1	START AID CABLE, POSITIVE	

SECTION 10 - ELECTRICAL

FIGURE 10-3. ARCTIC PACKAGE INSTALLATION



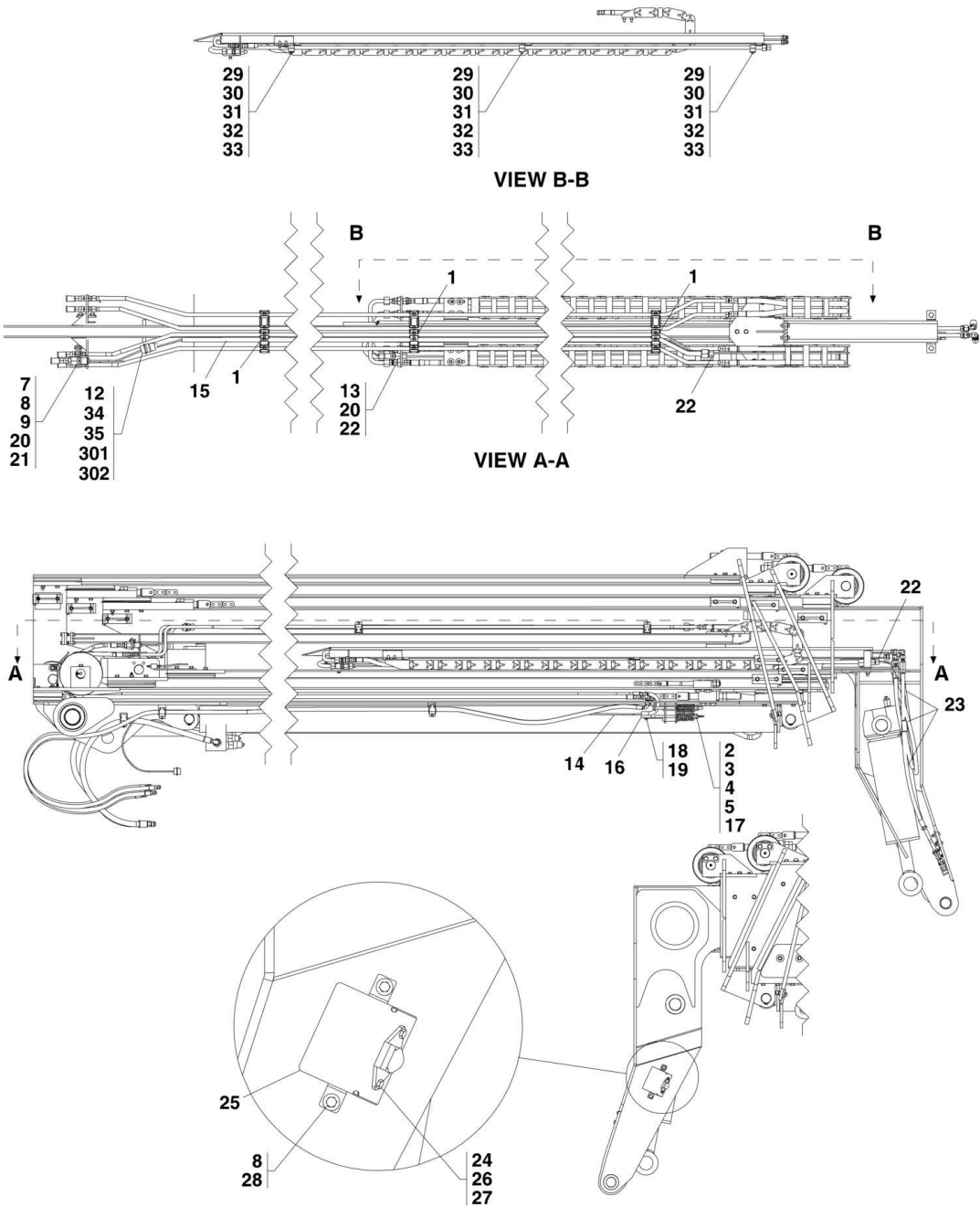
SECTION 10 - ELECTRICAL

FIGURE 10-3. ARCTIC PACKAGE INSTALLATION

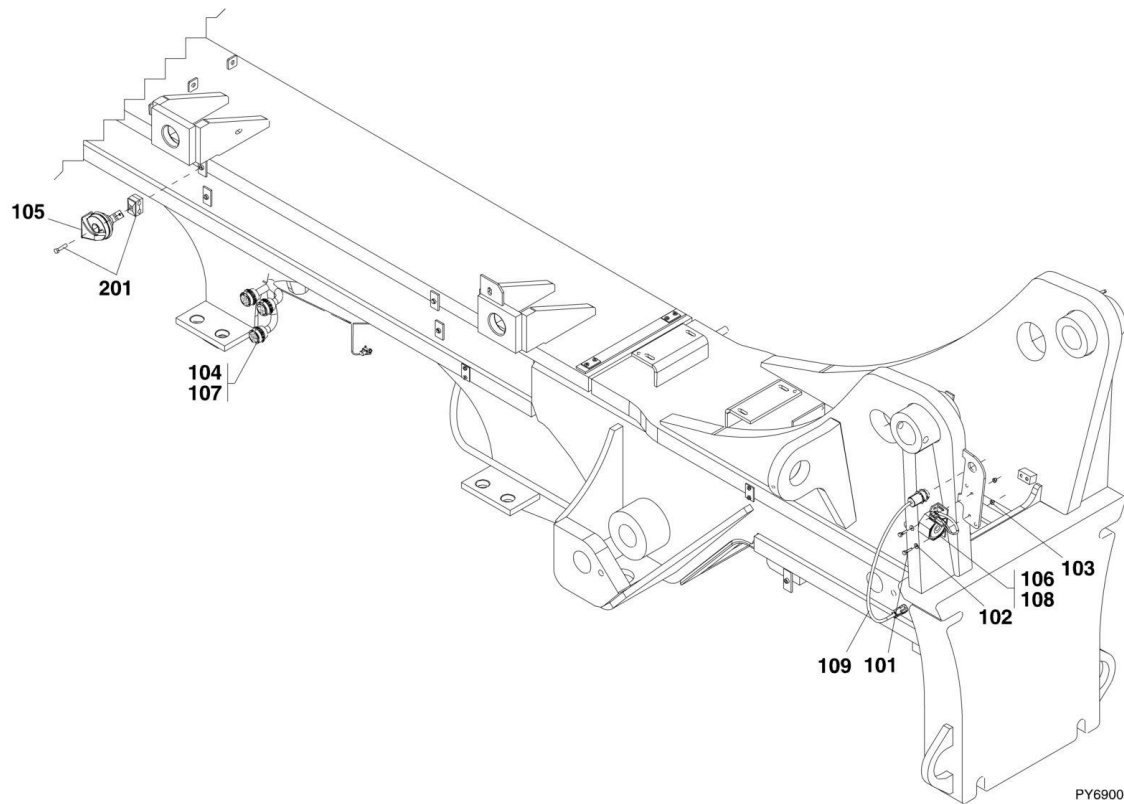
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001130957	Ref	ARCTIC PACKAGE INSTALLATION, (if equipped for ULS), (not available to order, see items 1 thru 12 for service)	C
	1001141077	Ref	ARCTIC PACKAGE INSTALLATION, (if equipped for LS), (not available to order, see items 1 thru 12 for service)	C
1	1060626	2	3 WAY EXTENSION CORD	
2	2580040	1	OIL PAN HEATER	
3	1001093564	2	BATTERY HEATER	
4	1001105886	1	HYDRAULIC IMMERSION HEATER	
5	1001115878	2	BATTERY BASE INSULATE	
6	1001121459	Ref	TILT RECIRCULATOR INSTALL, (not available to order, see items 101 thru 107 for service)	A
7	1001121460	Ref	ARCTIC HOSE RECIRCULATOR, (not available to order, see items 201 thru 205 for service), (qty of 2 needed for this machine)	A
8	1001098762	2	12V BATTERY, 1000CCA	
9	1001128594	1	STARTER MOTOR, (if equipped for ULS)	
9	1001125786	1	STARTER MOTOR, (if equipped for LS)	
10	1001141596	2	BATTERY HOLD DOWN PLATE	
11	3311508	4	HEX NUT, 5/16-18	
12	91081640	4	BATTERY HOLD DOWN BOLT	
13	1001143397	1	LEFT SIDE OIL PAN HEATER BRACKET	
14	1001143398	1	RIGHT SIDE OIL PAN HEATER BRACKET	
15	8305626	4	HEX NUT, 3/12-18	
16	1001144782	1	STARTER GROUND CABLE	
17	1001144790	1	ALTERNATOR POWER CABLE	
18	1001144801	1	START AID POSITIVE CABLE	
19	1001144803	1	START POWER CABLE	
101	2130808	2	ADAPTER, 90, (includes o-ring)	
102	2172408	2	ADAPTER, CONNECTOR, (includes o-ring)	
103	91043126	1	DUST CAP	
104	91403413	1	ADAPTER, QUICK DISCONNECT COUPLER, (female)	
105	91403414	1	ADAPTER, QUICK DISCONNECT COUPLER, (male)	
106	91043125	1	DUST PLUG	
107	2170708	2	ADAPTER, RUN TEE, (includes o-ring)	
201	91043125	1	DUST PLUG	
202	91043126	1	DUST CAP	
203	91403413	1	ADAPTER, QUICK DISCONNECT COUPLER, (female)	
204	91403414	1	ADAPTER, QUICK DISCONNECT COUPLER, (male)	
205	1001121454	1	HOSE ASSY	

SECTION 10 - ELECTRICAL

FIGURE 10-4. BOOM AND FRAME ELECTRICAL INSTALLATION



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SECTION 10 - ELECTRICAL

FIGURE 10-4. BOOM AND FRAME ELECTRICAL INSTALLATION

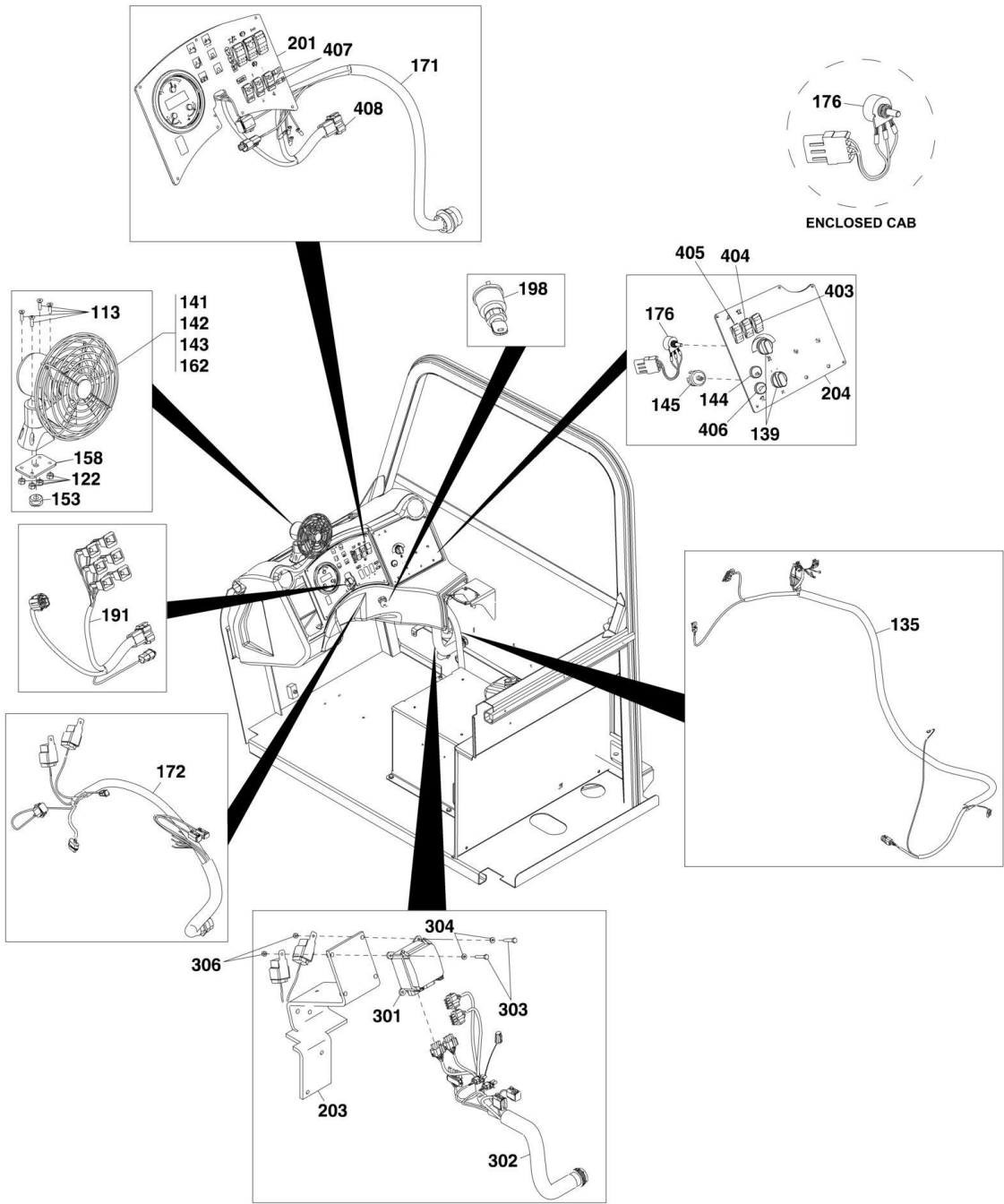
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001100291	Ref	AUXILIARY ELECTRIC ASSY, (not available to order, see items 1 thru 35 for service)	D
1	90207463	3	HYDRA ZORB CLAMP, 0.750	
2	91123054	1	COMPRESSION SPRING	
3	91121134	1	SPRING RETAINER	
4	3311801	1	HEX NUT, 1/2-13	
5	3311802	1	JAM NUT, 1/2-13	
7	91361032	1	DISCONNECT PLATE	
8	0641608	4	HEX HD CAPSCREW, 3/8-16X1, GR5	
9	4761600	2	LOCKWASHER, 3/8	
12	1001126834	NLA	BOOM AUXILIARY ELECRTIC HARNESS, (includes items 301 & 302), (no longer available, see 1001158435 for replacement)	B
13	91163066	1	TUBE ASSY	
14	91363151	1	AUX BOOM WIRE HARNESS	
14	77363233	2	CONNECTOR	
14	77363229	5	TERMINAL	
14	91143107	1	STRAIN RELIEF	
15	91363068	1	TUBE ASSY	
16	91366015	1	HOSE TAKE-UP WELDMENT	
17	91126032	1	CABLE TAKE UP WELDMENT	
18	0641505	2	HEX HD CAPSCREW, 5/16-18X5/8, GR5	
19	4761500	2	LOCKWASHER, 5/16	
20	91163100	2	ADAPTER, BULKHEAD FITTING	
21	2220346	1	ADAPTER, CONNECTOR	
22	91143141	3	CORD CONNECTOR	
23	8584003	3	TIE WRAP	
24	90207661	1	6 CONTACT SOCKET	
25	1001099812	1	CONNECTOR COVER PANEL	
26	4711400	2	FLAT WASHER, 1/4	
27	0641408	2	HEX HD CAPSCREW, 1/4-20X1	
28	4711600	2	FLAT WASHER, 3/8	
29	77133136	3	TUBE CLAMP, 3/4	
30	77133389	3	STACK BOLT	
31	0641514	3	HEX HD CAPSCREW, 5/16-18X1-3/4, GR5	
32	77133137	3	COVER PLATE	
33	77133390	3	SAFETY CLIP	
34	1001158178	1	HOSE ASSY	
35	1001158435	1	BOOM AUXILIARY ELECRTIC HARNESS	
	1001136433	Ref	ELECTRICAL INSTALLATION, (not available to order, see items 101 thru 109 for service)	C
101	0641408	2	HEX HD CAPSCREW, 1/4-20X1, GR5	
102	4711400	2	WASHER, 1/4	
103	8305624	2	HEX LOCKNUT, 0.250-20	
104	8881800	5	TIE STRAP	
105	10713707	1	HORN	
106	1001116274	1	MOLDED RESISTOR	
107		Ref	FRAME HARNESS, (See TRANSMISSION HARNESS for Breakdown)	
108	8270621	1	BACKUP ALARM	
109	91365037	1	PROXIMITY SENSOR	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
201		Ref	CLAMP ASSY, (See HYDRAULIC CIRCUITS SECTION for Breakdown)	
301	77363232	1	CONNECTOR	
302	91143107	1	STRAIN RELIEF	

SECTION 10 - ELECTRICAL

FIGURE 10-5. CAB ELECTRICAL INSTALLATION



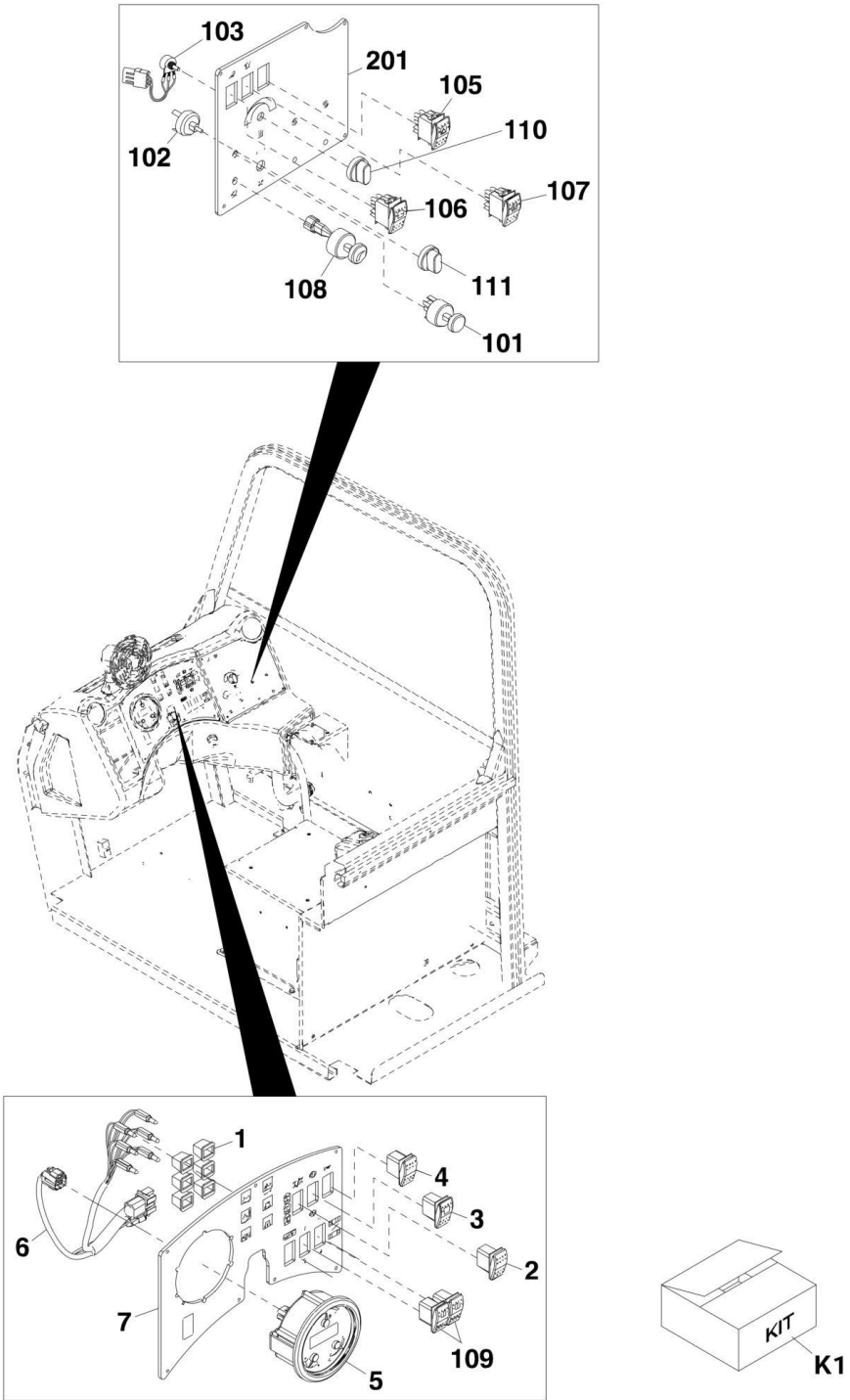
SECTION 10 - ELECTRICAL

FIGURE 10-5. CAB ELECTRICAL INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
113	0741006	4	FLAT HD CAPSCREW, #10-24X3/4, (enclosed cab)	F
122	3311005	4	HEX LOCKNUT, #10-24, GR2, (enclosed cab)	
135		Ref	ENCLOSED CAB OPTIONS HARNESS, (if equipped), (See ENCLOSED CAB OPTIONS HARNESS for Breakdown)	
139		Ref	KNOB, (See CAB SWITCHES for Breakdown)	
141	80963058	1	WEATHER PACK SHROUD, (enclosed cab)	
142	80963065	2	WEATHER PACK SEAL, (enclosed cab)	
143	80963069	2	MALE WEATHER PACK PIN, (enclosed cab)	
144		Ref	WIPER SWITCH, (See CAB SWITCHES for Breakdown)	
145		Ref	BLOWER SWITCH, (See CAB SWITCHES for Breakdown)	
153	91033425	1	GROMMET, (enclosed cab)	
158	91401443	1	PLATE, (enclosed cab)	
162	91403608	1	FAN, (enclosed cab)	
171		Ref	DASH HARNESS, (See DASH HARNESS for Breakdown)	
172		Ref	TRANSMISSION RELAY HARNESS, (See TRANSMISSION RELAY HARNESS for Breakdown)	
176		Ref	POTENTIOMETER ASSY, (See CAB SWITCHES for Breakdown)	
191		Ref	DASH INSTRUMENT PANEL HARNESS, (See INSTRUMENT PANEL HARNESS for Breakdown)	
198	91033317	1	IGNITION SWITCH, (includes key)	
198	77384578	1	KEY, IGNITION	
201		Ref	INSTRUMENT PANEL, (See CAB SWITCHES for Breakdown)	
203		Ref	BRACKET, (See CONTROLS SECTION for Breakdown)	
204		Ref	RH DASH PANEL, (See CAB SECTION for Breakdown)	
	1001001186	Ref	CAB ELECTRICAL INSTALLATION, (not available to order, see items 301 thru 306 for service)	
301	1001126285	1	BOX, VEC OPTIONS	
301	70024843	1	RELAY, 12V 30AMP	
302		Ref	VEC OPTIONS HARNESS, (See VEC OPTIONS HARNESS for Breakdown)	
303	0641412	4	HEX HD CAPSCREW, 1/4-20X1-1/2, GR5, (torque to 96 lb-ft/130 Nm)	
304	4751200	4	WASHER, 1/2	
305	4240033	2	TIE WRAP, (not shown)	
306	3311401	4	HEX NUT, 1/4-20	
403		Ref	HAZARD SWITCH, (See CAB SWITCHES for Breakdown)	
404		Ref	BEACON LIGHT SWITCH, (See CAB SWITCHES for Breakdown)	
405		Ref	WORK LIGHT SWITCH, (See CAB SWITCHES for Breakdown)	
406		Ref	TILT RHEOSTAT, (See CAB SWITCHES for Breakdown)	
407		Ref	AUX ELECTRICS SWITCHES,(See CAB SWITCHES for Breakdown)	
408	91563192	1	CAB AUX ELECTRIC HARNESS	
408	4460970	1	CONNECTOR	
408	80363179	1	WEDGE LOCK	
408	4460464	9	TERMINAL	
408	4460466	3	PLUG	
408	4460419	14	TERMINAL	

SECTION 10 - ELECTRICAL

FIGURE 10-6. CAB SWITCHES



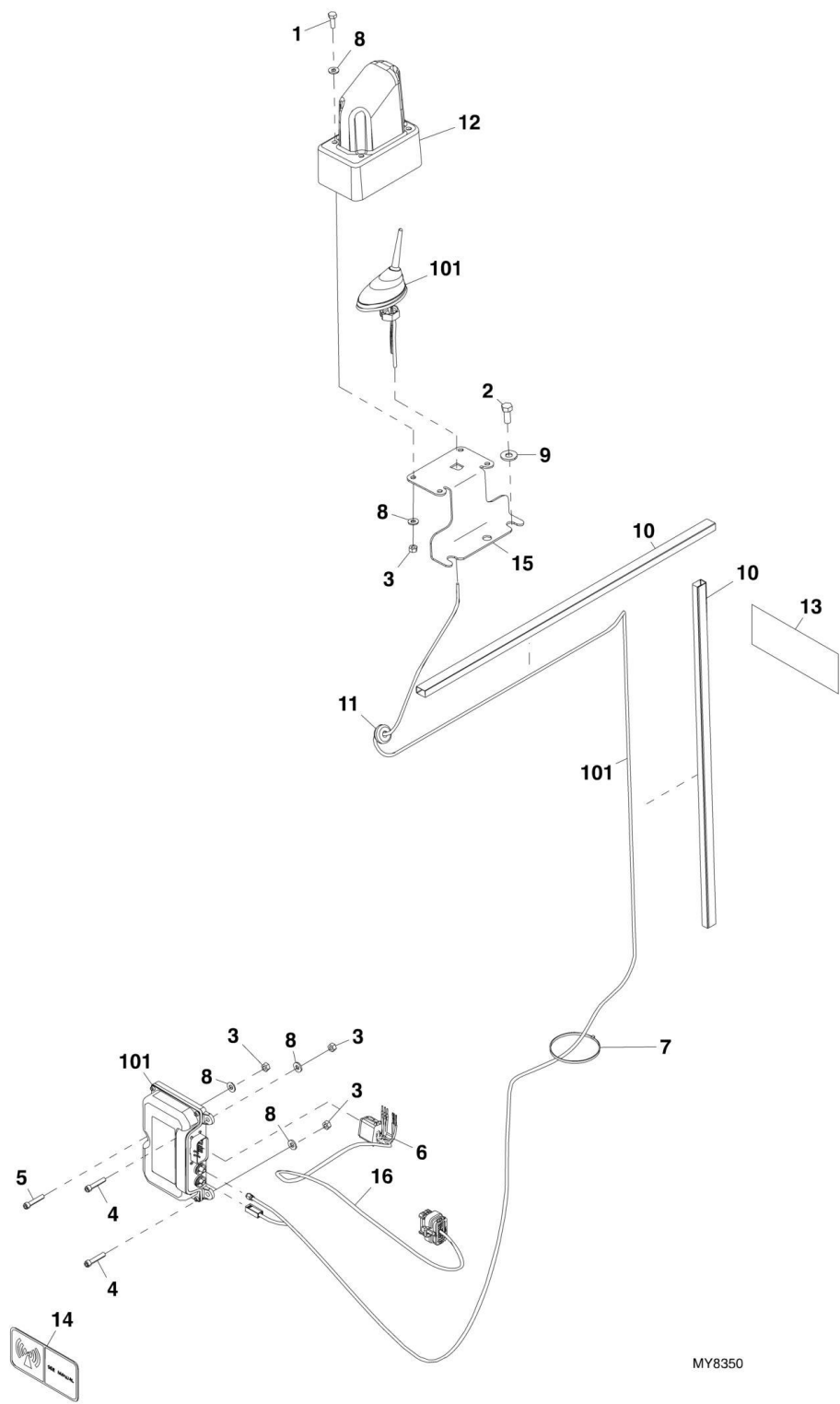
SECTION 10 - ELECTRICAL

FIGURE 10-6. CAB SWITCHES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001101666	1	INSTRUMENT PANEL, (includes items 1 thru 7)	N
1	N.S.S.	6	BULB HOUSING	
2	91473127	1	STEER SELECT SWITCH	
3	91474465	1	PARK BRAKE SWITCH	
4	7026440	1	HORN SWITCH	
5	1001099163	1	3-IN-1 GAUGE	
6		Ref	INSTRUMENT PANEL HARNESS, (See INSTRUMENT PANEL HARNESS for Breakdown)	
7	1001099378	1	DASH PANEL	
101	80963101	1	WIPER SWITCH, (enclosed cab)	
102	80964001	1	BLOWER SWITCH, (if equipped)	
103	1001151643	1	POTENTIOMETER ASSY, (if equipped)	
105	1001090459	1	HAZARD SWITCH, (if equipped)	
106	1001090460	1	WORK LIGHT SWITCH, (if equipped)	
107	1001090461	1	BEACON LIGHT SWITCH, (if equipped)	
108	1001106688	1	TILT RHEOSTAT SWITCH	
109	91473127	2	AUX ELECTRIC SWITCH, (if equipped)	
110	1001151847	1	KNOB, (if equipped)	
111	1001152326	1	KNOB, (if equipped)	
201		Ref	RH PANEL, (See CAB SECTION for Breakdown)	
K1	1001152514	1	THERMOSTAT POTENTIOMETER REPLACEMENT KIT, (includes items 103, 110 & 111)	

SECTION 10 - ELECTRICAL

FIGURE 10-7. CLEARSKY INSTALLATION



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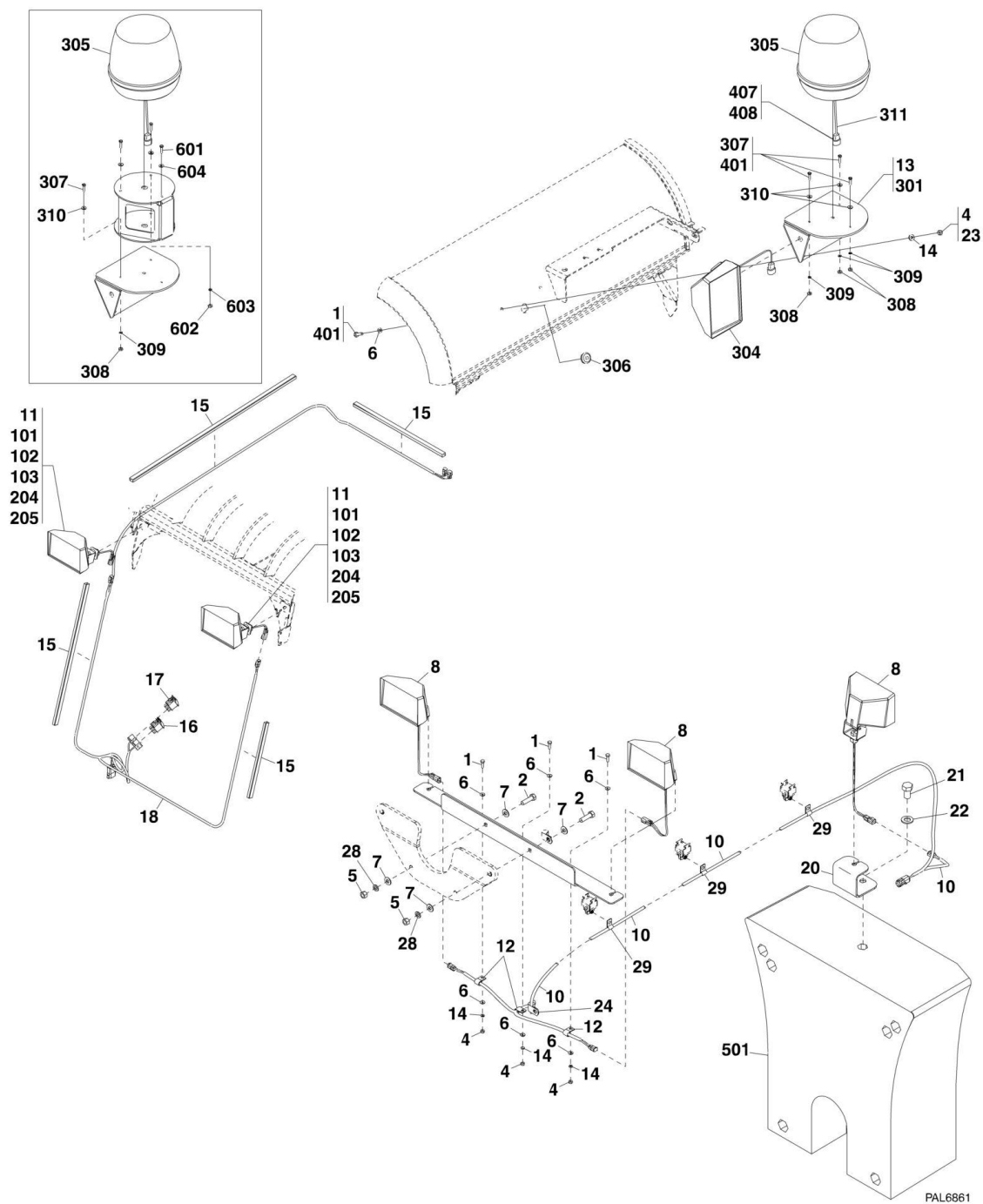
SECTION 10 - ELECTRICAL

FIGURE 10-7. CLEARSKY INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001148860	Ref	CLEARSKY INSTALLATION, (not available to order, see items 1 thru 16 for service)	A
1	0641406	4	HEX HD CAPSCREW, 1/4-20X3/4, GR5	
2	0641607	3	HEX HD CAPSCREW, 3/8-16X7/8, GR5	
3	3311405	7	HEX NUT, 1/4-20, GR2	
4	3931412	2	SOCKET HD CAPSCREW, 1/4-20X3/4	
5	3931420	1	SOCKET HD CAPSCREW, 1/4-20X1-1/4	
6	4240032	1	TIE STRAP	
7	4240099	1	TIE STRAP	
8	4711400	11	WASHER, 1/4	
9	4751600	3	WASHER, 3/8	
10	80961142	2	CONDUIT	
11	1001090615	1	GROMMET	
12	1001100876	1	COVER	
13	1001116208	1	CLEARSKY DECAL	
14	1001120989	1	RADIO DECAL	
15	1001148427	1	BRACKET	
16	1001149909	1	HARNESS	
101	1001115238	1	CLEARSKY ASSEMBLY, (includes antenna and communication unit)	

SECTION 10 - ELECTRICAL

FIGURE 10-8. WORK LIGHTS (Prior to SN 0160059446)



SECTION 10 - ELECTRICAL

FIGURE 10-8. WORK LIGHTS (Prior to SN 0160059446)

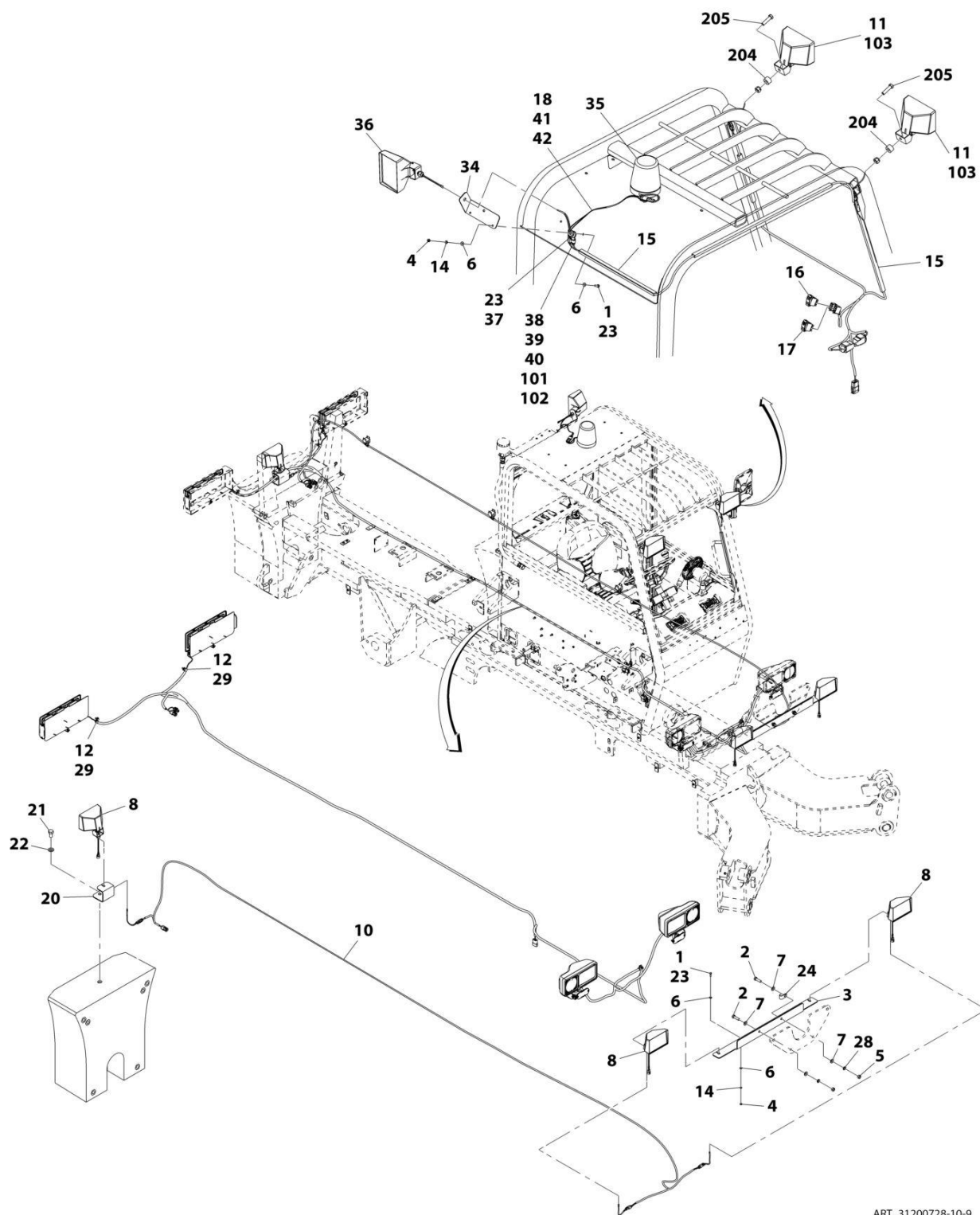
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001110091	Ref	WORK LIGHT WITH BEACON INSTALLATION, (if equipped), (not available to order, see items 1 thru 29 for service)	C-C
	1001114492	Ref	BEACON LIGHT INSTALLATION, (if equipped), (not available to order, see items 1, 4, 6, 14, 15, 17, 18, 23, 301, 306 thru 310, 407 & 408 for service)	B-C
1	0641407	5	HEX HD CAPSCREW, 1/4-20X7/8, GR5, (torque to 96 lb-ft/130 Nm), (WORK LIGHT WITH BEACON INSTALLATION)	
1	0641407	2	HEX HD CAPSCREW, 1/4-20X7/8, GR5, (torque to 96 lb-ft/130 Nm), (BEACON LIGHT INSTALLATION)	
2	0641814	2	HEX HD CAPSCREW, 1/2-13X2-3/4, GR5, (torque to 75 lb-ft/102 Nm)	
3	0903661	1	BRACKET	
4	3311401	5	HEX NUT, 1/4-20, GR2, (WORK LIGHT WITH BEACON INSTALLATION)	
4	3311401	2	HEX NUT, 1/4-20, GR2, (BEACON LIGHT INSTALLATION)	
5	3311801	2	HEX NUT, 1/2-13, GR2	
6	4711400	8	WASHER, 1/4, (WORK LIGHT WITH BEACON INSTALLATION)	
6	4711400	2	WASHER, 1/4, (BEACON LIGHT INSTALLATION)	
7	4711800	8	WASHER, 1/2	
8	1001095342	3	LIGHT ASSY, (includes items 101 thru 103)	B
10		Ref	BOOM WORK LIGHT HARNESS, (See BOOM WORK LIGHT HARNESS for Breakdown)	
11	1001090580	2	LIGHT ASSY, (includes items 101 thru 103, 204 & 205)	B
12	1320263	3	3/8 IN CLAMP	
13	1001090581	Ref	BEACON/WORK LIGHT INSTALLATION, (not available to order, see items 301 thru 311 for service) (Prior to SN 0160059446)	E
14	4761400	5	LOCKWASHER, 1/4, (WORK LIGHT WITH BEACON INSTALLATION)	
14	4761400	2	LOCKWASHER, 1/4, (BEACON LIGHT INSTALLATION)	
15	8096D097	7.3 ft	CONDUIT, (WORK LIGHT WITH BEACON INSTALLATION)	
15	8096D097	6 ft	CONDUIT, (BEACON LIGHT INSTALLATION)	
16		Ref	HAZARD SWITCH, (See CAB SWITCHES for Breakdown)	
17		Ref	BEACON SWITCH, (See CAB SWITCHES for Breakdown)	
18		Ref	CAB WORK LIGHT HARNESS, (See CAB WORK LIGHT HARNESS for Breakdown)	
20	1001090522	1	BRACKET	
21	0642210	1	HEX HD CAPSCREW, 3/4-10X1-1/4, GR5	
22	4712200	1	WASHER, 3/4	
23	14404173	AR	SILICONE SEALANT	
24	8406105	1	3/4 IN CLAMP	
28	4761800	2	LOCKWASHER, 1/2	
29	1320263	3	3/8 IN CLAMP	
101	4460897	1	CONNECTOR	
101	80604017	1	WEDGE LOCK	
102	4460464	2	TERMINAL	
103	80963050	1	LIGHT, (includes hardware)	
103	80964070	1	BULB	
204	91403503	1	SPACER	
205	91413052	1	BOLT	
301	0903669	1	BRACKET	
302	4460897	2	CONNECTOR	
302	80604017	2	WEDGE LOCK	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
303	4460464	2	TERMINAL	B
304	1001099276	1	LIGHT ASSY, (includes item 351 and hardware)	
304	80964070	1	BULB	
305	91343031	1	BEACON LIGHT	
305	91344053	1	BULB	
306	1001090615	1	GROMMET	
307	0721006	3	SCREW, #10-24X3/4	
308	3311001	3	HEX NUT, 10-24, GR2	
309	4751000	3	WASHER, #10	
310	4761000	3	LOCKWASHER, #10	
311	2820035	2.3 ft	INSULATION	
401	0100011	AR	LOCTITE 242	
407	4460508	2	TERMINAL, (BEACON LIGHT INSTALLATION)	
408	4461017	1	CONNECTOR, (BEACON LIGHT INSTALLATION)	
408	N.S.S.	1	WEDGE LOCK, (BEACON LIGHT INSTALLATION)	
501		Ref	COUNTERWEIGHT, (See FRAME AND ATTACHING PARTS for Breakdown)	
	1001096708	Ref	BEACON LIGHT MOUNTING INSTALLATION, (if equipped with A/C), (not available to order, see items 601 thru 605 for service) (Prior to SN 0160059446)	
601	0721006	3	SCREW, #10-24X3/4	
602	3311001	3	HEX NUT, 10-24, GR2	
603	4751000	3	WASHER, #10	
604	4761000	3	LOCKWASHER, #10	
605	1001096709	1	BRACKET	

SECTION 10 - ELECTRICAL

FIGURE 10-9. WORK LIGHTS (SN 0160059446 to Present)



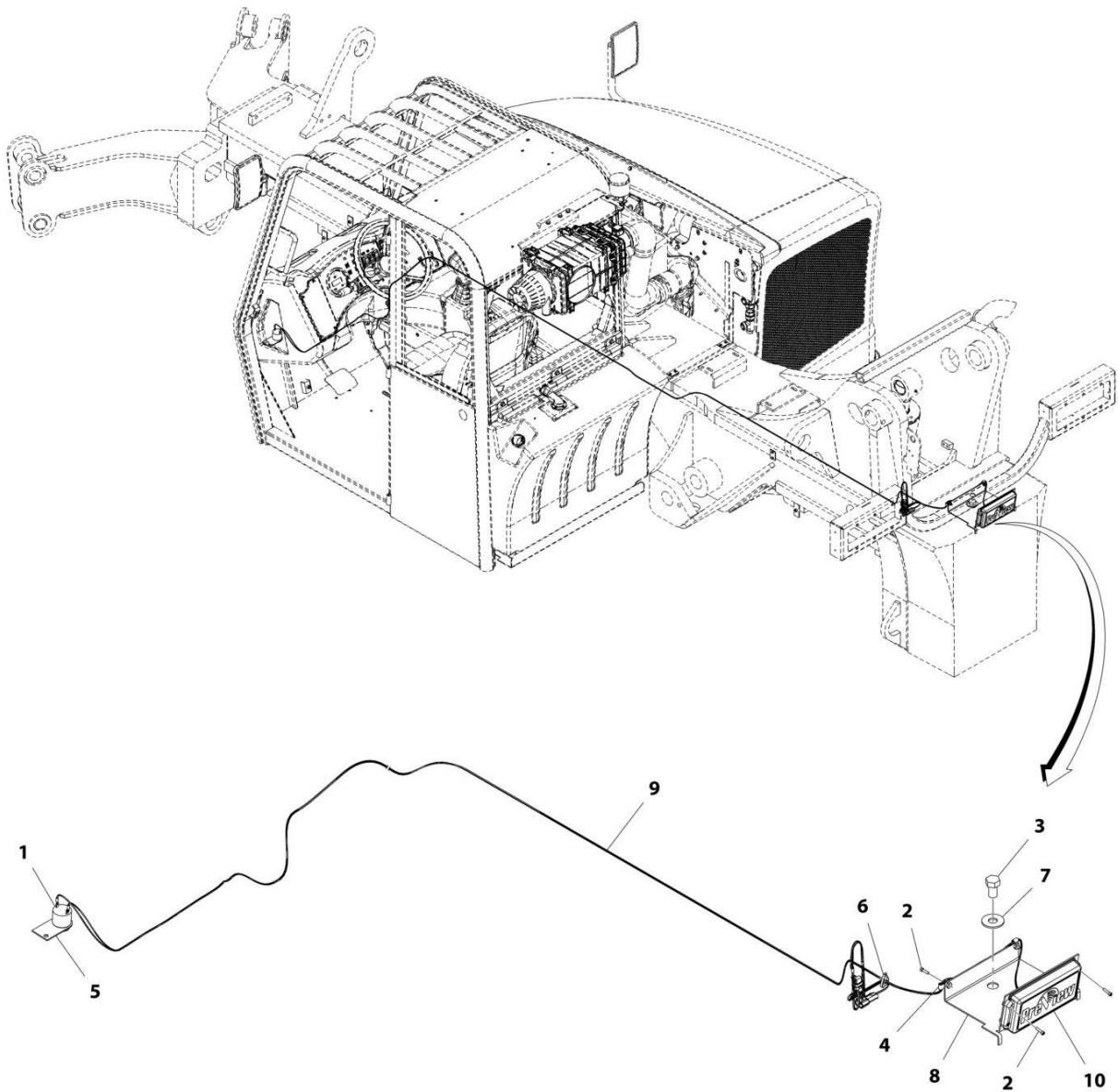
SECTION 10 - ELECTRICAL

FIGURE 10-9. WORK LIGHTS (SN 0160059446 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001162757	Ref	WORK LIGHT WITH BEACON INSTALLATION, (if equipped), (not available to order, use items 1 thru 42 for service)	B
	1001162758	Ref	BEACON LIGHT INSTALLATION, (if equipped), (not available to order, use items 15, 17, 18, 23, 35, 37, 41 & 42 for service)	B
1	0641407	5	HEX HD CAPSCREW, 1/4-20X7/8, GR5, (torque to 96 lb-ft/130 Nm)	
2	0641814	2	HEX HD CAPSCREW, 1/2-13X2-3/4, GR5, (torque to 75 lb-ft/102 Nm)	
3	0903661	1	BRACKET	
4	3311401	5	HEX NUT, 1/4-20, GR2	
5	3311801	2	HEX NUT, 1/2-13, GR2	
6	4711400	8	WASHER, 1/4	
7	4711800	8	WASHER, 1/2	
8	1001095342	3	LIGHT ASSY, (includes items 101 thru 103)	B
10		Ref	BOOM WORK LIGHT HARNESS, (See Separate Breakdown in this Section)	
11	1001090580	2	LIGHT ASSY, (includes items 101 thru 103, 204 & 205)	B
12	1320263	3	3/8 IN CLAMP	
14	4761400	5	LOCKWASHER, 1/4	
15	8096D097	7.3 ft	CONDUIT, (WORK LIGHT WITH BEACON INSTALLATION)	
15	8096D097	6 ft	CONDUIT, (BEACON LIGHT INSTALLATION)	
16		Ref	SWITCH, WORK LIGHTS, (See Separate Breakdown in this Section)	
17		Ref	BEACON SWITCH, (See Separate Breakdown in this Section)	
18		Ref	CAB WORK LIGHT HARNESS, (See Separate Breakdown in this Section)	
20	1001090522	1	BRACKET	
21	0642210	1	HEX HD CAPSCREW, 3/4-10X1-1/4, GR5	
22	4712200	1	WASHER, 3/4	
23	14404173	AR	SILICONE SEALANT	
24	8406105	1	3/4 IN CLAMP	
28	4761800	2	LOCKWASHER, 1/2	
29	1320263	3	3/8 IN CLAMP	
34	1001146009	1	BRACKET	
35	8500066	1	LIGHT, BEACON	
36	1001099276	1	LIGHT ASSY, (includes hardware)	
	80964070	1	BULB	
37	1001090615	1	GROMMET	
38	4460464	2	TERMINAL	
39	4460897	1	CONNECTOR	
	80604017	1	WEDGE LOCK	
40	2820035	1.2 ft	INSULATION	
41	1001117021	1	CONNECTOR	
42	8220890	1	SECONDARY LOCK	
101	4460897	1	CONNECTOR	
	80604017	1	WEDGE LOCK	
102	4460464	2	TERMINAL	
103	80963050	1	LIGHT, (includes hardware)	
	80964070	1	BULB	
204	91403503	1	SPACER	
205	91413052	1	BOLT	

SECTION 10 - ELECTRICAL

FIGURE 10-10. REVERSE SENSING SYSTEM INSTALLATION



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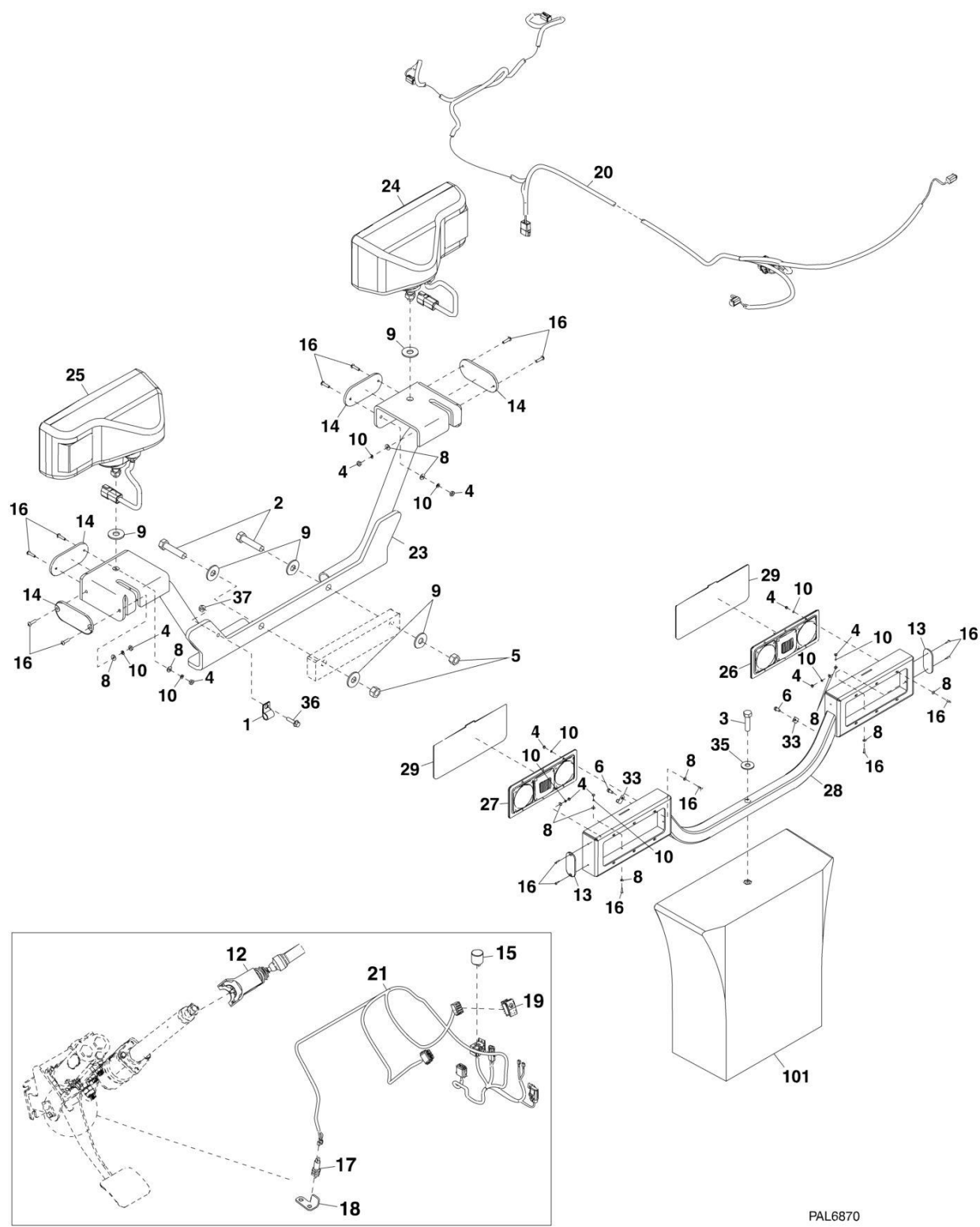
SECTION 10 - ELECTRICAL

FIGURE 10-10. REVERSE SENSING SYSTEM INSTALLATION

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001152538	Ref	REVERSE SENSING SYSTEM INSTALLATION	A
1	0140011	1	AUDIBLE SIGNAL DEVICE	
2	3931012	6	BOLT, 10-24X3/4	
3	0642210	1	BOLT, 3/4-10X1 1/4	
4	1320136	2	CLAMP, CABLE	
5	1001182662	1	BRACKET, AUDIBLE ALARM	
6	4240033	AR	STRAP, TIE	
7	4752200	1	WASHER, 3/4	
8	1001152220	1	BRACKET, BACKUP SENSOR	
9	1001153084	1	HARNESS, REVERSE SENSOR, (See Separate Breakdown in this Section)	
10	1001182358	1	CONTROL, REVERSE SENSOR	

SECTION 10 - ELECTRICAL

FIGURE 10-11. DRIVE LIGHTS



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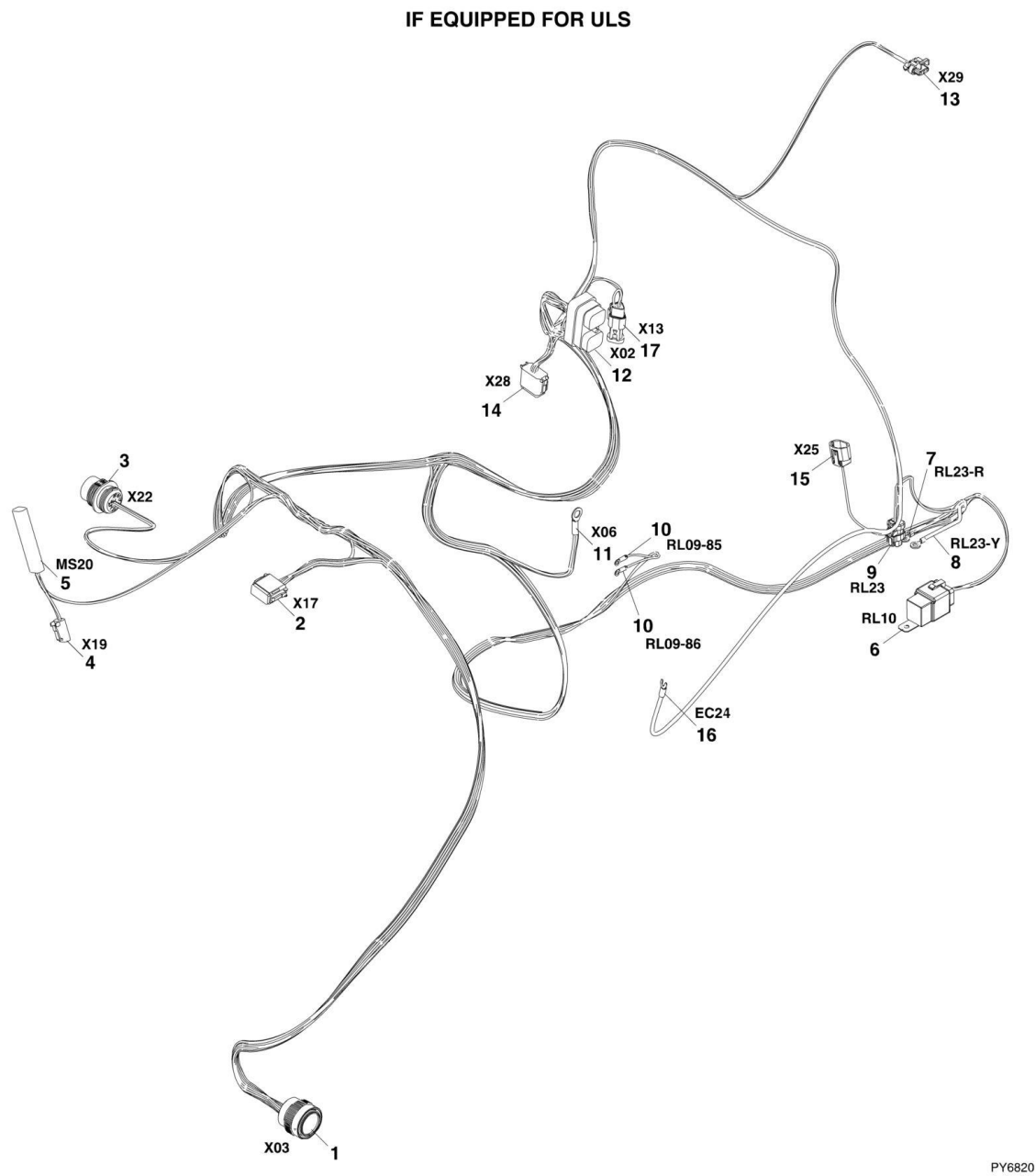
SECTION 10 - ELECTRICAL

FIGURE 10-11. DRIVE LIGHTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001090469	Ref	DRIVE LIGHT INSTALLATION, (if equipped), (not available to order, see items 1 thru 37 for service)	4-A
1	85941016	1	1/2 IN CLAMP	
2	0641818	2	HEX HD CAPSCREW, 1/2-13X2-1/4, GR5	
3	0642222	1	HEX HD CAPSCREW, 3/4-10X2-3/4, GR5	
4	3311001	26	HEX NUT, #10-24, GR2	
5	3311805	2	HEX LOCKNUT, 1/2-13, GR2	
6	3941506	2	SCREW, 5/16X3/4	
7	4461254	1	CONNECTOR, (not shown)	
8	4711000	28	WASHER, #10	
9	4751800	6	WASHER, 1/2	
10	4761000	26	LOCKWASHER, #10	
11	8220050	1	TERMINAL, (not shown)	
12	8223073	1	TURN SIGNAL SELECTOR	
13	10718991	2	RED REFLECTOR	
14	10718992	4	YELLOW REFLECTOR	
15	80983168	1	FLASHER	
16	88261010	26	BUTTON HD CAPSCREW, #10-24X3/4	
17	91143117	1	STOPLIGHT SWITCH	
18	91511127	1	MOUNTING TAB	
19		Ref	HAZARD SWITCH, (See CAB SWITCHES for Breakdown)	
20		Ref	FRAME ROAD LIGHT HARNESS, (See FRAME ROAD LIGHT HARNESS for Breakdown)	
21		Ref	CAB ROAD LIGHT HARNESS, (See CAB ROAD LIGHT HARNESS for Breakdown)	
23	1001094264	1	BRACKET	
24	1001094390	1	RH LIGHT, (includes hardware), (torque to 50 lb-ft/68 Nm)	
24	7016388	1	BULB	
24	4460899	1	CONNECTOR	
24	80604022	1	WEDGE LOCK	
25	1001094391	1	LH LIGHT, (includes hardware), (torque to 50 lb-ft/68 Nm)	
25	7016388	1	BULB	
25	4460899	1	CONNECTOR	
25	80604022	1	WEDGE LOCK	
26	1001094392	1	RH LIGHT	
26	7016388	1	BULB	
26	4460899	1	CONNECTOR	
26	80604022	1	WEDGE LOCK	
27	1001094393	1	LH LIGHT	
27	7016388	1	BULB	
27	4460899	1	CONNECTOR	
27	80604022	1	WEDGE LOCK	
28	1001094523	1	BRACKET	
29	1001094824	2	COVER	
33	1320263	2	3/8 IN CLAMP	
35	4752200	1	WASHER, 1/2	
36	0791408	1	FLANGE HEX HD CAPSCREW, 1/4-20X1	
37	3311408	1	FLANGE NUT, 1/4-20	
101		Ref	COUNTERWEIGHT, (See FRAME AND ATTACHING PARTS for Breakdown)	

SECTION 10 - ELECTRICAL

FIGURE 10-12. ENGINE HARNESS



PY6820

SECTION 10 - ELECTRICAL

IF EQUIPPED FOR ULS

TO STARTER LOCKOUT RELAY

RL10					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	ORN	ST RLY	16 AWG	GXL	X33 (13)
2	ORG	STRT L.O. SIG	16 AWG	GXL	X52 (15)
3					
4	ORN	STRT L.O. SIG	16 AWG	GXL	RL23 (1)
5	BLK	STRT L.O. RTN	16 AWG	GXL	S11 (2)

TO STARTER/ECM POWER

RL23-R					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	RED	ECM PWR	14 AWG	GXL	X32 (1)
1	RED	ECM PWR	14 AWG	GXL	X32 (2)
1	RED	ECM PWR	14 AWG	GXL	X32 (11)
1	RED	ECM PWR	14 AWG	GXL	X32 (12)

TO STARTER/ECM POWER

RL23-Y					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	ORG	STRT SOL	10 AWG	GXL	EC24 (1)

TO STARTER/ECM POWER

RL23					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	ORN	STRT L.O. SIG	16 AWG	GXL	RL10 (4)
2	BLK	ENG GND	16 AWG	GXL	S18 (2)

TO TRANSMISSION

X17					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	BRN	TRANS SOL Y1	16 AWG	GXL	X33 (19)
2	BRN	TRANS SOL Y2	16 AWG	GXL	X33 (21)
3	BRN	TRANS SOL Y3	16 AWG	GXL	X33 (22)
4	BRN	TRANS SOL Y4	16 AWG	GXL	X33 (25)
5	BRN	TRANS SOL Y5	16 AWG	GXL	X33 (26)
6	BRN	TRANS SOL Y6	16 AWG	GXL	X33 (28)
7					
8	VIO	PK BRK SOL	16 AWG	GXL	S21 (2)
9					
10	DBL	TRANS TMP SW	16 AWG	GXL	X33 (17)
11	BLK	ENG GND	16 AWG	GXL	S18 (1)
12	BLK	ENG GND	16 AWG	GXL	S18 (1)

TO CHASSIS HARNESS

X03					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1					
2	RED	DIAG PWR	18 AWG	GXL	X22 (2)
3	BLK	DIAG GND	18 AWG	GXL	X22 (1)
4	BLK	ENG GND	16 AWG	GXL	S18 (1)
5					
6	VIO	PK BRK SOL	16 AWG	GXL	S21 (1)
7	VIO	ENG WARN LT	18 AWG	GXL	X32 (16)
8	ORG	ENG STOP LT	16 AWG	GXL	X32 (6)
9	RED	ALT EXC	16 AWG	GXL	IP26 (2)
10	BRN	THR SUP#911	18 AWG	GXL	X32 (42)
11	GRN	THR SGN#915	18 AWG	GXL	X32 (51)
12	YEL	THR RTN#914	18 AWG	GXL	X32 (41)
13	ORN	ST RLY	16 AWG	GXL	RL10 (1)
14	YEL	CAN H904	18 AWG	GXL	X28 (2)
15	GRN	CAN L905	18 AWG	GXL	X28 (4)
16					
17	DBL	TRANS TMP SW	16 AWG	GXL	X17 (10)
18	VIO	SEN SUP 2	18 AWG	GXL	S30 (1)
19	BRN	TRANS SOL Y1	16 AWG	GXL	X17 (1)
20	WHT	WAIT TO START LT	16 AWG	GXL	X32 (6)
21	BRN	TRANS SOL Y2	16 AWG	GXL	X17 (2)
22	BRN	TRANS SOL Y3	16 AWG	GXL	X17 (3)
23	ORG	THR RTN 2	18 AWG	GXL	X32 (23)
24	BLU	THR SIG 2	18 AWG	GXL	X32 (53)
25	BRN	TRANS SOL Y4	16 AWG	GXL	X17 (4)
26	BRN	TRANS SOL Y5	16 AWG	GXL	X17 (5)
27					
28	BRN	TRANS SOL Y6	16 AWG	GXL	X17 (6)
29					
30					
31					

TO CAN SPlice

X28					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	YEL	CAN H904	18 AWG	GXL	X32 (17)
2	YEL	CAN H904	18 AWG	GXL	X33 (14)
3	GRN	CAN L905	18 AWG	GXL	X32 (18)
4	GRN	CAN L905	18 AWG	GXL	X33 (15)
5					
6					
7					
8					
9	GRN	CAN L905	18 AWG	GXL	X22 (4)
10	GRN	CAN L905	18 AWG	GXL	X13 (2)
11	YEL	CAN H904	18 AWG	GXL	X22 (3)
12	YEL	CAN H904	18 AWG	GXL	X13 (1)

TO ENGINE HARNESS

X02					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	RED	ECM PWR	18 AWG	GXL	RL23-R (1)
2	RED	ECM PWR	18 AWG	GXL	RL23-R (1)
3	WHT	KEY SW SIG	16 AWG	GXL	X33 (11)
4	WHT	GRID HTR	18 AWG	GXL	RL09-85 (1)
5					
6	WHT	WAIT TO START LT	18 AWG	GXL	X33 (20)
7					
8	ORG	ENG STOP LT	16 AWG	GXL	X33 (8)
9					
10					
11	RED	ECM PWR	18 AWG	GXL	RL23-R (1)
12	RED	ECM PWR	18 AWG	GXL	RL23-R (1)
13	BLK	OUTPUT RTN	18 AWG	GXL	S11 (1)
14					
15	ORG	STRT L.O. SIG	16 AWG	GXL	RL10 (2)
16	VIO	ENG WARN LT	18 AWG	GXL	X33 (7)
17	YEL	CAN H904	18 AWG	GXL	X28 (1)
18	GRN	CAN L905	18 AWG	GXL	X28 (3)
19					
20					
21	BLK	ECM GND	18 AWG	GXL	X36 (1)
22	BLK	ECM GND	18 AWG	GXL	X36 (1)
23	ORG	THR RTN 2	18 AWG	GXL	X33 (23)
24					
25					
26					
27					
28					
29					
30					
31	BLK	ECM GND	18 AWG	GXL	X36 (1)
32	BLK	ECM GND	18 AWG	GXL	X36 (1)
33					
34					
35					
36					
37					
38					
39					
40					
41	YEL	THR RTN#914	18 AWG	GXL	X33 (12)
42	BRN	THR SUP#911	18 AWG	GXL	X33 (10)
43	BLK	OEM SEN RTN	18 AWG	GXL	X29 (3)
44	WHT	COOLANT LEVEL	18 AWG	GXL	X29 (2)
45					
46					
47					
48					
49					
50					
51	GRN	THR SGN#915	18 AWG	GXL	X33 (11)
52	VIO	SEN SUP 2	18 AWG	GXL	S30 (1)
53	BLU	THR SIG 2	18 AWG	GXL	X33 (24)
54					
55					
56					
57					
58					
59					
60					

X29

CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	VIO	SEN SUP 2	18 AWG	GXL	S30 (2)
2	WHT	COOLANT LEVEL	18 AWG	GXL	X32 (44)
3	BLK	OEM SEN RTN	18 AWG	GXL	X32 (43)

TO ALTERNATOR

X25					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1					
2	RED	ALT EXC	16 AWG	GXL	IP26 (1)
3					
4					

TO STARTER

EC24					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	ORG	STRT SOL	10 AWG	GXL	RL23-Y (1)

TO CANBUS TERMINATOR

X13					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	YEL	CAN H904	18 AWG	GXL	X28 (12)
2	GRN	CAN L905	18 AWG	GXL	X28 (10)
3					

TO GRID HEATER

RL09-85					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	WHT	GRID HTR	18 AWG	GXL	X32 (4)

TO GRID HEATER

RL09-86					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	BLK	GRID HTR RTN	18 AWG	GXL	S11 (2)

TO ENGINE GROUND

X06					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	BLK	ECM GND	14 AWG	GXL	X32 (21)
1	BLK	ECM GND	14 AWG	GXL	X32 (22)
1	BLK	ECM GND	14 AWG	GXL	X32 (31)
1	BLK	ECM GND	14 AWG	GXL	X32 (32)

TO DIAGNOSTIC PORT

X22					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	BLK	DIAG GND	18 AWG	GXL	X33 (3)
2	RED	DIAG PWR	18 AWG	GXL	X33 (2)
3	YEL	CAN H904	18 AWG	GXL	X28 (11)
4	GRN	CAN L905	18 AWG	GXL	X28 (9)
5					
6					
7					
8					
9					

TO PARK BRAKE SOLENOID

X19					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	VIO	PK BRK SOL	16 AWG	GXL	MS20 (1)
2	BLK	ENG GND	16 AWG	GXL	MS20 (2)

MS20					
CONN/ WIRE POS. COLOR	WIRE LABEL	GAUGE	JACKET	TO	
1	VIO	PK BRK SOL	16 AWG	GXL	X19 (1)
1	VIO	PK BRK SOL	16 AWG	GXL	S21 (2)
2	BLK	ENG GND	16 AWG	GXL	X19 (2)
2	BLK	ENG GND	16 AWG	GXL	S18 (2)

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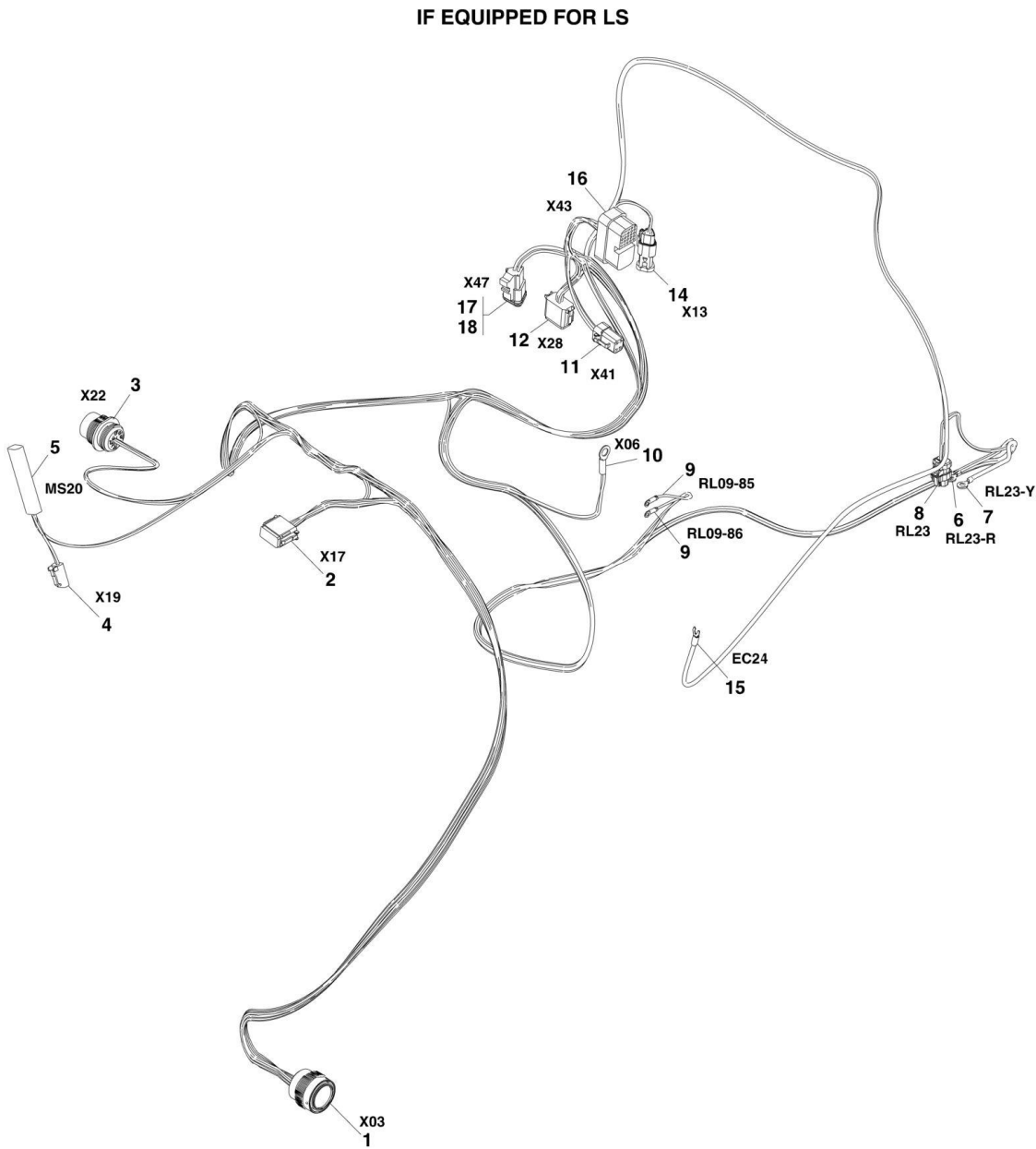
SECTION 10 - ELECTRICAL

FIGURE 10-12. ENGINE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131966	1	ENGINE HARNESS, (if equipped for ULS), (includes all items)	G
1	1001116938	1	CONNECTOR	
1	4460465	24	TERMINAL	
1	4460944	2	TERMINAL	
1	4460466	5	PLUG	
2	4460933	1	CONNECTOR, (includes rear seal)	
2	80604016	1	WEDGE LOCK	
2	4460465	10	TERMINAL	
2	4460466	2	PLUG	
3	1001112612	1	CONNECTOR	
3	4460497	1	NUT	
3	4460496	1	LOCK WASHER	
3	1001149712	1	DUST CAP	
3	4460941	2	TERMINAL	
3	4460943	2	TERMINAL	
3	4460466	5	PLUG	
4	4460891	1	CONNECTOR	
4	4460465	2	TERMINAL	
5	91363021	1	MOLDED DIODE	
6	1001118282	1	CONNECTOR	
6	1001116733	4	TERMINAL	
6	8220101	1	PLUG	
7	1001117106	1	RING TERMINAL	
8	4460312	1	RING TERMINAL	
9	1001116950	1	CONNECTOR	
9	4460942	2	TERMINAL	
10	4460247	2	RING TERMINAL	
11	8220164	1	RING TERMINAL	
12	1001126208	1	CONNECTOR	
12	70024578	1	STRAIN RELIEF	
12	1001126009	25	TERMINAL	
12	4460518	35	PLUG	
13	1001125027	1	METRI-PACK CONNECTOR	
13	8220124	3	TERMINAL	
14	4460933	1	CONNECTOR	
14	80604016	1	WEDGE LOCK	
14	4460944	8	TERMINAL	
14	4460466	4	PLUG	
15	4460590	1	CONNECTOR	
15	8220124	1	TERMINAL	
15	1001116751	3	PLUG	
16	1001117111	1	TERMINAL FORK	
17	1001144147	1	CONNECTOR	
17	91554022	1	TERMINATOR LOCK	
17	1001116815	1	RECEPTICAL	
17	4460943	1	TERMINAL	
17	4460944	1	TERMINAL	
17	4460466	1	PLUG	

SECTION 10 - ELECTRICAL

FIGURE 10-13. ENGINE HARNESS



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SECTION 10 - ELECTRICAL

IF EQUIPPED FOR LS

TO CHASSIS HARNESS

X03					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	KEY SWT SIG	18 AWG	GXL	X43 (39)
2	RED	DIAG PWR	18 AWG	GXL	X22 (2)
3	BLK	DIAG GND	18 AWG	GXL	X22 (1)
4	BLK	ENG GND	16 AWG	GXL	S18 (1)
5					
6	VIO	PK BRK SOL	16 AWG	GXL	S21 (1)
7	VIO	ENG WARN LT	18 AWG	GXL	X43 (44)
8	ORG	ENG STOP LT	18 AWG	GXL	X43 (43)
9					
10	BRN	THR SUP/911	18 AWG	GXL	X43 (22)
11	GRN	THR SGN/915	18 AWG	GXL	X43 (9)
12	YEL	THR RTN/914	18 AWG	GXL	X43 (23)
13	ORN	ST RLY	16 AWG	GXL	RL23 (1)
14	YEL	CAN H904	18 AWG	GXL	X28 (2)
15	GRN	CAN L905	18 AWG	GXL	X28 (4)
16					
17	DBL	TRANS TMP SW	16 AWG	GXL	X17 (10)
18	VIO	THR SUP 2	18 AWG	GXL	X43 (21)
19	BRN	TRANS SOL Y1	16 AWG	GXL	X17 (1)
20	WHT	WAIT TO STOP LT	18 AWG	GXL	X43 (50)
21	BRN	TRANS SOL Y2	16 AWG	GXL	X17 (2)
22	BRN	TRANS SOL Y3	16 AWG	GXL	X17 (3)
23	ORG	THR RTN 2	18 AWG	GXL	X43 (32)
24	BLU	THR SIG 2	18 AWG	GXL	X43 (26)
25	BRN	TRANS SOL Y4	16 AWG	GXL	X17 (4)
26	BRN	TRANS SOL Y5	16 AWG	GXL	X17 (5)
27					
28	BRN	TRANS SOL Y6	16 AWG	GXL	X17 (6)
29					
30					
31					

TO ECM

X41					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	ECM GND	14 AWG	GXL	X06 (1)
2	BLK	ECM GND	14 AWG	GXL	X06 (1)
3	RED	ECM PWR	14 AWG	GXL	RL23-R (1)
4	RED	ECM PWR	14 AWG	GXL	RL23-R (1)

TO CAN SPlice

X28					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN H904	18 AWG	GXL	X43 (46)
2	YEL	CAN H904	18 AWG	GXL	X03 (14)
3	GRN	CAN L905	18 AWG	GXL	X43 (47)
4	GRN	CAN L905	18 AWG	GXL	X03 (15)
5					
6					
7					
8					
9	GRN	CAN L905	18 AWG	GXL	X22 (4)
10	GRN	CAN L905	18 AWG	GXL	X13 (2)
11	YEL	CAN H904	18 AWG	GXL	X22 (3)
12	YEL	CAN H904	18 AWG	GXL	X13 (1)

TO STARTER/ECM POWER

RL23-R					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	ECM PWR	14 AWG	GXL	X41 (3)
1	RED	ECM PWR	14 AWG	GXL	X41 (4)

TO STARTER/ECM POWER

RL23-Y					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	ORG	STRT SOL	10 AWG	GXL	EC24 (1)

TO STARTER/ECM POWER

RL23					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	ORN	ST RLY	16 AWG	GXL	X03 (13)
2	BLK	ENG GND	16 AWG	GXL	S18 (2)

TO TRANSMISSION

X17					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BRN	TRANS SOL Y1	16 AWG	GXL	X03 (19)
2	BRN	TRANS SOL Y2	16 AWG	GXL	X03 (21)
3	BRN	TRANS SOL Y3	16 AWG	GXL	X03 (22)
4	BRN	TRANS SOL Y4	16 AWG	GXL	X03 (25)
5	BRN	TRANS SOL Y5	16 AWG	GXL	X03 (26)
6	BRN	TRANS SOL Y6	16 AWG	GXL	X03 (28)
7					
8	VIO	PK BRK SOL	16 AWG	GXL	S21 (2)
9					
10	DBL	TRANS TMP SW	16 AWG	GXL	X03 (17)
11	BLK	ENG GND	16 AWG	GXL	S18 (1)
12	BLK	ENG GND	16 AWG	GXL	S18 (1)

TO PARK BRAKE SOLENOID

X19					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	VIO	PK BRK SOL	16 AWG	GXL	MS20 (1)
2	BLK	ENG GND	16 AWG	GXL	MS20 (2)

TO MOLDED DIODE

MS20					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	VIO	PK BRK SOL	16 AWG	GXL	X19 (1)
1	VIO	PK BRK SOL	16 AWG	GXL	S21 (2)
2	BLK	ENG GND	16 AWG	GXL	X19 (2)
2	BLK	ENG GND	16 AWG	GXL	S18 (2)

TO CANBUS TERMINATOR

X13					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN H904	18 AWG	GXL	X28 (12)
2	GRN	CAN L905	18 AWG	GXL	X28 (10)
3					

IP26

CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	ALT EXC	16 AWG	GXL	X25 (2)
2	RED	ALT EXC	16 AWG	GXL	X03 (9)

TO STARTER

EC24					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	ORG	STRT SOL	10 AWG	GXL	RL23-Y (1)

X47

CONNECTOR PART NUMBER: 4461095					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	WHT	KEY SIG ECM	18 AWG	GXL	4460944 X43 (39)
B	WHT	KEY SWT SIG	18 AWG	GXL	4460944 X03 (1)
C					4460166

TO DIAGNOSTIC RELAY

X22					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	DIAG GND	18 AWG	GXL	X03 (3)
2	RED	DIAG PWR	18 AWG	GXL	X03 (2)
3	YEL	CAN H904	18 AWG	GXL	X28 (11)
4	GRN	CAN L905	18 AWG	GXL	X28 (9)
5					
6					
7					
8					
9					

TO ENGINE HARNESS

X43					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2					
3					
4					
5					
6					
7					
8					
9	GRN	THR SGN/915	18 AWG	GXL	X03 (11)
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21	VIO	THR SUP 2	18 AWG	GXL	X03 (18)
22	BRN	THR SUP/911	18 AWG	GXL	X03 (10)
23	YEL	THR RTN/914	18 AWG	GXL	X03 (12)
24					
25					
26	BLU	THR SIG 2	18 AWG	GXL	X03 (24)
27					
28					
29					
30					
31					
32	ORG	THR RTN 2	18 AWG	GXL	X03 (23)
33					
34					
35					
36					
37					
38					
39	WHT	KEY SWT SIG	18 AWG	GXL	X47 (1)
40	WHT	GRID HTR	18 AWG	GXL	RL09-85 (1)
41					
42	BLK	OUTPUT RTN	18 AWG	GXL	RL09-86 (1)
43	ORG	ENG STOP LT	18 AWG	GXL	X03 (8)
44	VIO	ENG WARN LT	18 AWG	GXL	X03 (7)
45					
46	YEL	CAN H904	18 AWG	GXL	X28 (1)
47	GRN	CAN L905	18 AWG	GXL	X28 (3)
48					
49					
50	WHT	WAIT TO STOP LT	18 AWG	GXL	X03 (20)

TO GRID HEATER

RL09-85					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	GRID HTR	18 AWG	GXL	X43 (40)

TO GRID HEATER

RL09-86					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	OUTPUT RTN	18 AWG	GXL	X43 (42)

TO ENGINE GROUND

X06					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	ECM GND	14 AWG	GXL	X41 (1)
1	BLK	ECM GND	14 AWG	GXL	X41 (1)

ART_31200728-10-13_2

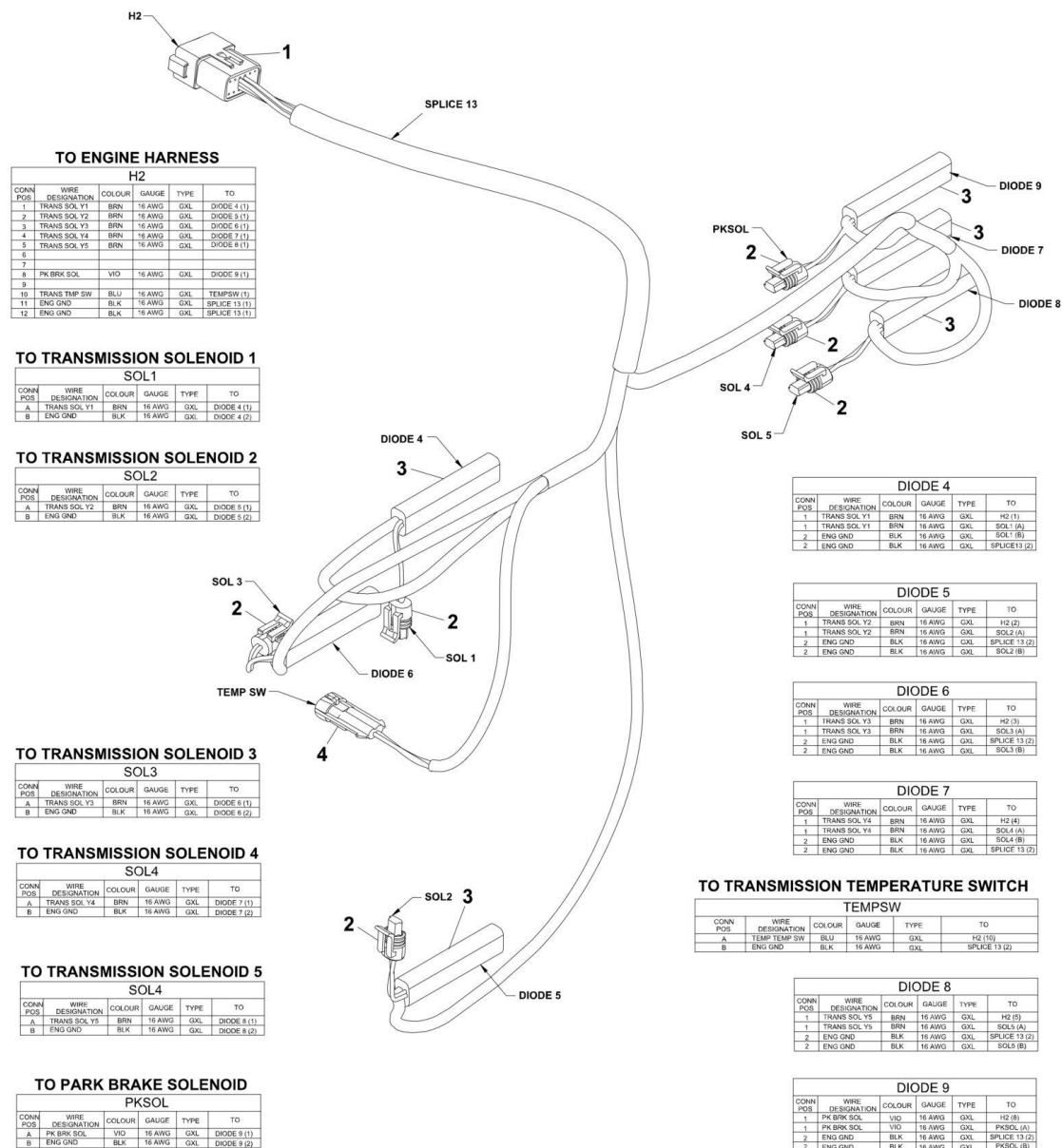
SECTION 10 - ELECTRICAL

FIGURE 10-13. ENGINE HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001139249	1	ENGINE HARNESS, (if equipped for LS), (includes all items)	G
1	1001116938	1	CONNECTOR	
1	4460465	22	TERMINAL	
1	4460944	2	TERMINAL	
1	4460466	7	PLUG	
2	4460933	1	CONNECTOR, (includes rear seal)	
2	80604016	1	WEDGE LOCK	
2	4460465	10	TERMINAL	
2	4460466	2	PLUG	
3	1001112612	1	CONNECTOR	
3	4460497	1	NUT	
3	4460496	1	SPRING WASHER	
3	1001149712	1	DUST CAP	
3	4460941	2	TERMINAL	
3	4460943	2	TERMINAL	
3	4460466	5	PLUG	
4	4460891	1	CONNECTOR	
4	4460465	2	TERMINAL	
5	91363021	1	MOLDED DIODE	
6	1001117106	1	RING TERMINAL	
7	4460312	1	RING TERMINAL	
8	1001116950	1	CONNECTOR	
8	4460942	2	TERMINAL	
9	4460247	2	RING TERMINAL	
10	8220164	1	RING TERMINAL	
11	1001116810	1	CONNECTOR	
11	70021826	1	WEDGE LOCK	
11	4460509	4	TERMINAL	
12	4460933	1	CONNECTOR	
12	80604016	1	WEDGE LOCK	
12	4460944	8	TERMINAL	
12	4460466	4	PLUG	
14	1001144147	1	CONNECTOR	
14	91554022	1	TERMINATOR LOCK	
14	1001116815	1	RECEPTICAL	
14	4460943	2	TERMINAL	
14	4460466	1	PLUG	
15	1001117111	1	TERMINAL FORK	
16	1001116821	1	CONNECTOR	
16	4460518	37	PLUG	
16	1001126009	13	TERMINAL	
17	4461095	1	PLUG TERMINAL	
17	4460944	2	TERMINAL	
17	4460466	1	PLUG	
18	4461070	1	MATING CONNECTOR	

SECTION 10 - ELECTRICAL

FIGURE 10-14. TRANSMISSION HARNESS



PAP25860

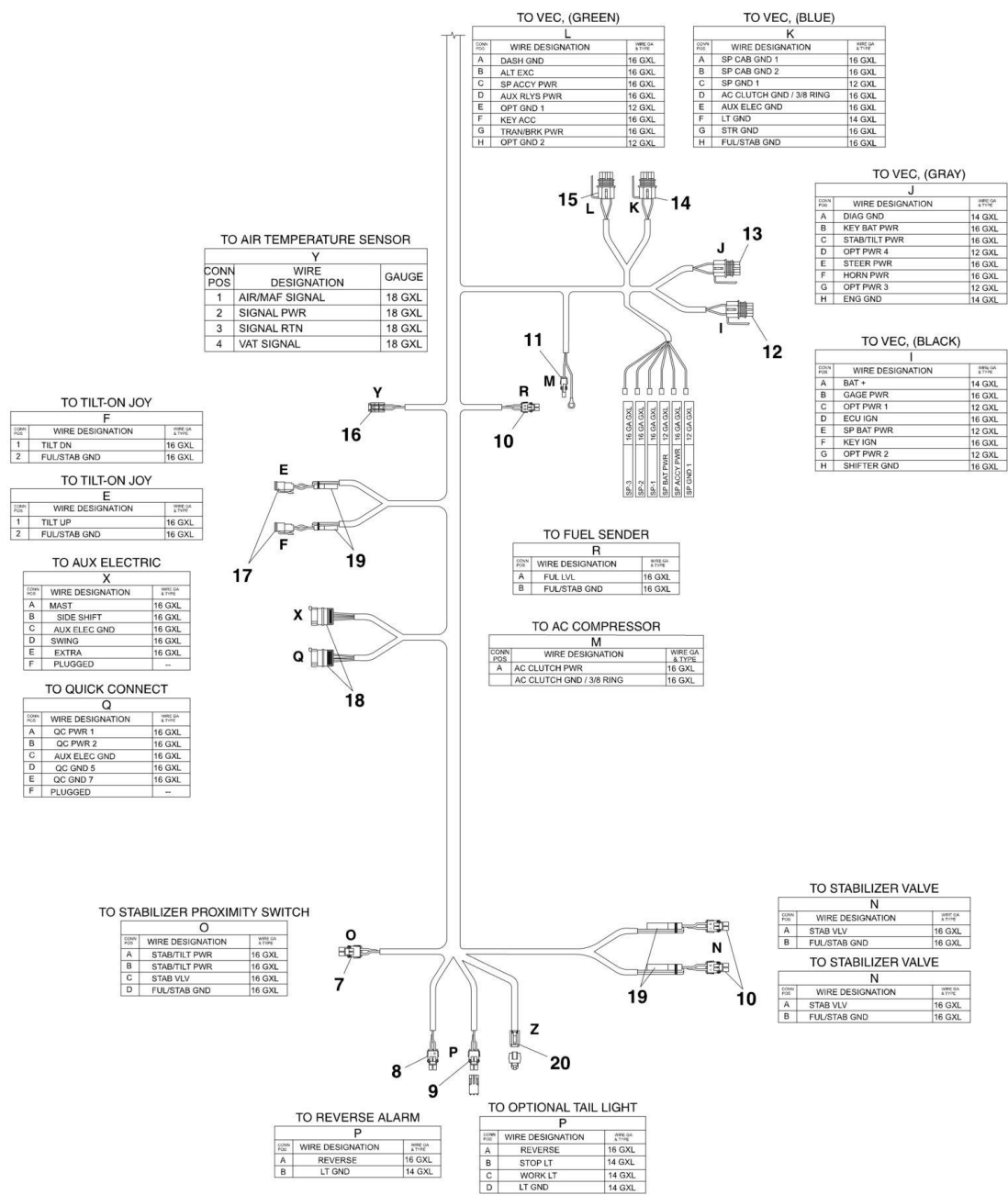
SECTION 10 - ELECTRICAL

FIGURE 10-14. TRANSMISSION HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001115528	1	TRANSMISSION HARNESS, (includes all items)	C
1	4460970	1	FEMALE RECEPTACLE, (includes rear seal)	
1	80363179	1	SECONDARY WEDGE LOCK	
1	4460465	9	TERMINAL	
1	114017	3	PLUG	
2	4460955	6	CONNECTOR	
2	1001116748	2	TERMINAL	
3	91363021	6	MOLDED DIODE	
4	1001117073	1	CONNECTOR	
4	70022741	1	WEDGE LOCK	

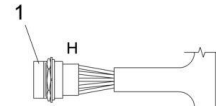
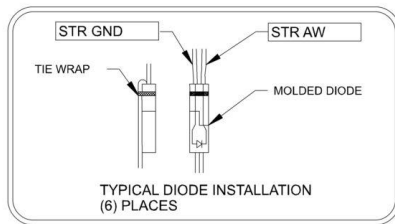
SECTION 10 - ELECTRICAL

FIGURE 10-15. FRAME HARNESS



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SECTION 10 - ELECTRICAL



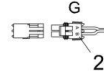
TO ENGINE HARNESS

WIRE #	WIRE DESIGNATION	WIRE GA.
1	ECU IGN	16 GXL
2	BAT +	16 GXL
3	DIAG GND	14 GXL
4	ENG GND	14 GXL
5	PLUGGED	--
6	PK BRK SOL	16 GXL
7	ENG WARN LT	16 GXL
8	ENG STOP LT	16 GXL
9	ALT EXC	16 GXL
10	THR SUP/911	16 GXL
11	THR SGN/915	16 GXL
12	THR RTN/914	16 GXL
13	ST RLY	16 GXL
14	CAN H/904	*
15	CAN L/905	*
16	SHIELD /020	*
17	TRANS TMP SW	16 GXL
18	IVS	16 GXL
19	TRANS SOL Y1	16 GXL
20	WAIT TO START LT	16 GXL
21	TRANS SOL Y2	16 GXL
22	TRANS SOL Y3	16 GXL
23	ON IDLE	16 GXL
24	PWR	16 GXL
25	TRANS SOL Y4	16 GXL
26	TRANS SOL Y5	16 GXL
27	SIGNAL PWR	16 GXL
28	TRANS SOL Y6	16 GXL
29	VAT SIGNAL	16 GXL
30	AIR/MAF SIGNAL	16 GXL
31	SIGNAL RTN	16 GXL

TO DASH HARNESS

WIRE #	WIRE DESIGNATION	WIRE GA.
1	KEY BAT PWR	16 GXL
2	KEY IGN	16 GXL
3	KEY ACC	16 GXL
4	KEY START	16 GXL
5	DASH GND	16 GXL
6	GAGE PWR	16 GXL
7	HORN PWR	16 GXL
8	STEER PWR	16 GXL
9	STR AW	16 GXL
10	STR CAB	16 GXL
11	HORN	16 GXL
12	FUL LVL	16 GXL
13	TRANS TMP SW	16 GXL
14	ST RLY	16 GXL
15	SHIFT PWR 1	16 GXL
16	PK BRK SOL	16 GXL
17	PLUGGED	--
18	PLUGGED	--
19	PLUGGED	--
20	WAIT TO START LT	16 GXL
21	ENG WARN LT	16 GXL
22	ENG STOP LT	16 GXL
23	TRAN/BRK PWR	16 GXL
24	FULL STAB GND	16 GXL
25	PLUGGED	--
26	PLUGGED	--
27	PLUGGED	--
28	PLUGGED	--
29	CAN H/904	*
30	CAN L/905	*
31	SHIELD /020	*

WIRE #	WIRE DESIGNATION	WIRE GA.
A	WORK LT	14 GXL
B	LT GND	14 GXL



TO CRAB VALVE

WIRE #	WIRE DESIGNATION	WIRE GA.
A	STR CRB	16 GXL
B	STR GND	16 GXL

TO CRAB VALVE

WIRE #	WIRE DESIGNATION	WIRE GA.
A	STR AW	16 GXL
B	STR GND	16 GXL

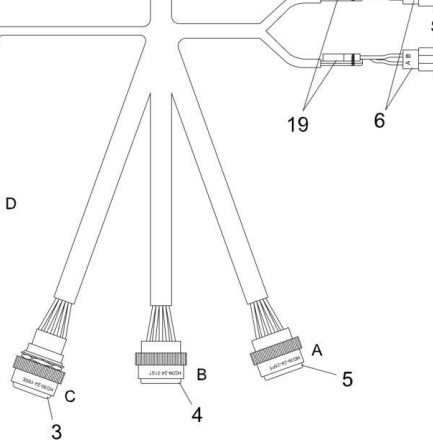
TO CAB HARNESS

WIRE #	WIRE DESIGNATION	WIRE GA.
1	TRANS SOL Y1	16 GXL
2	TRANS SOL Y2	16 GXL
3	TRANS SOL Y3	16 GXL
4	TRANS SOL Y4	16 GXL
5	TRANS SOL Y5	16 GXL
6	TRANS SOL Y6	16 GXL
7	KEY START	16 GXL
8	SHIFT PWR 1	16 GXL
9	PK BRK SOL	16 GXL
10	REVERSE	16 GXL
11	TRAN/BRK PWR	16 GXL
12	SHIFTER GND	16 GXL
13	THR SUP/911	16 GXL
14	THR SGN/915	16 GXL
15	THR RTN/914	16 GXL
16	SP BAT PWR	16 GXL
17	SP ACCY PWR	16 GXL
18	SP CAB GND 1	16 GXL
19	SP CAB GND 2	16 GXL
20	SP-1	16 GXL
21	SP-2	16 GXL
22	SP-3	16 GXL
23	TRANS TMP SW	16 GXL
24	AC CLUTCH PWR	16 GXL
25	STAB/TILT PWR	16 GXL
26	TILT UP	16 GXL
27	TILT DN	16 GXL
28	SP BAT PWR	16 GXL
29	IVS	16 GXL
30	ON IDLE	16 GXL
31	PWR	16 GXL

HORN (1/4" FEMALE SPADE)

TO OPTIONS HARNESS

WIRE #	WIRE DESIGNATION	WIRE GA.
1	KEY ACC	16 GXL
2	AUX RLYS PWR	16 GXL
3	STOP LT	14 GXL
4	WORK LT	14 GXL
5	EXTRA	16 GXL
6	SWING	16 GXL
7	QC PWR 1	16 GXL
8	OPT PWR 1	12 GXL
9	QC PWR 2	16 GXL
10	OPT PWR 2	12 GXL
11	QC GND 5	16 GXL
12	OPT PWR 3	12 GXL
13	QC GND 7	16 GXL
14	OPT PWR 4	12 GXL
15	AUX ELEC GND	16 GXL
16	OPT GND 1	12 GXL
17	SIDE SHIFT	16 GXL
18	OPT GND 2	12 GXL
19	MAST	16 GXL



ART_31200728-10-15_2

SECTION 10 - ELECTRICAL

FIGURE 10-15. FRAME HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001127386	1	FRAME HARNESS, (includes all items)	J
1	1001116934	1	CONNECTOR	
1	83481286	1	NUT	
1	83481285	1	LOCKWASHER	
1	4460464	27	TERMINAL	
1	4460466	1	PLUG	
2	4460742	1	CONNECTOR	
2	4460457	2	WEATHER PACK SOCKET TERMINAL	
2	80963065	2	SEAL	
2	4461157	1	DUST CAP	
2	1001116727	1	PLUG	
3	7026415	1	CONNECTOR	
3	83481286	1	NUT	
3	83481285	1	LOCKWASHER	
3	4460465	11	SOCKET TERMINAL	
3	4460509	8	SOCKET TERMINAL	
3	4460466	1	PLUG	
3	4460469	1	CONNECTOR CAP	
3	4460941	1	CONTACT	
4	4460502	1	CONNECTOR	
4	4460465	31	SOCKET TERMINAL	
4	4460466	1	PLUG	
5	7026910	1	CONNECTOR	
5	4460464	21	TERMINAL	
5	4460466	7	PLUG	
6	91474468	2	CONNECTOR	
6	91474469	2	TERMINAL	
7	80963061	1	CONNECTOR	
7	4460457	4	TERMINAL	
7	80963065	4	SEAL	
8	1001117021	1	CONNECTOR	
8	8220890	1	SECONDARY LOCK	
8	4460746	1	TERMINAL	
8	1001190037	1	SEAL	
8	1001116747	1	TERMINAL	
8	80963065	1	SEAL	
9	80963061	1	CONNECTOR	
9	4460457	1	TERMINAL	
9	80963065	1	SEAL	
9	1001116747	3	TERMINAL	
9	1001190037	3	SEAL	
9	80963062	1	CONNECTOR	
9	1001116727	1	DUST CAP	
10	4460742	3	WEATHER PACK CONNECTOR	
10	4460457	2	WEATHER PACK SOCKET TERMINAL	
10	80963065	2	SEAL	
11	80963056	1	CONNECTOR	
11	4460475	2	TERMINAL	
11	80963065	2	CABLE SEAL, (green)	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
12	1001121557	NLA	CONNECTOR, (black) (no longer available, use 80484086 for replacement)	
12	80484086	1	CONNECTOR, (black)	
12	7026414	1	CONNECTOR LOCK	
12	4460746	4	TERMINAL	
12	1001116747	4	TERMINAL	
12	80963065	4	SEAL	
12	80963067	4	SEAL	
13	80484085	1	CONNECTOR, (black)	
13	7026414	1	CONNECTOR LOCK	
13	4460746	4	TERMINAL	
13	1001116747	4	TERMINAL	
13	80963065	4	SEAL	
13	80963067	4	SEAL	
14	80484084	1	CONNECTOR, (blue)	
14	7026414	1	CONNECTOR LOCK	
14	4460746	6	TERMINAL	
14	1001116747	2	TERMINAL	
14	80963065	6	SEAL	
14	80963067	1	SEAL	
14	1001190037	1	SEAL	
15	80484081	1	CONNECTOR, (green)	
15	7026414	1	CONNECTOR LOCK	
15	4460746	6	TERMINAL	
15	1001116747	2	TERMINAL	
15	80963065	6	SEAL	
15	80963067	2	SEAL	
16	4460884	1	CONNECTOR	
16	4460465	4	TERMINAL	
16	80604021	1	CONNECTOR LOCK	
17	4460891	2	CONNECTOR	
17	80604018	1	CONNECTOR LOCK	
17	4460465	2	TERMINAL	
18	7026413	2	CONNECTOR	
18	4460464	5	TERMINAL	
18	4460466	1	PLUG	
18	7026419	1	CONNECTOR CAP	
19	91363021	6	MOLDED DIODE	
20	4460884	1	CONNECTOR	
20	4460465	3	TERMINAL	
20	4460466	1	PLUG	
20	1001192401	1	DUST CAP	

426

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SECTION 10 - ELECTRICAL

FIGURE 10-16. VEC OPTIONS HARNESS

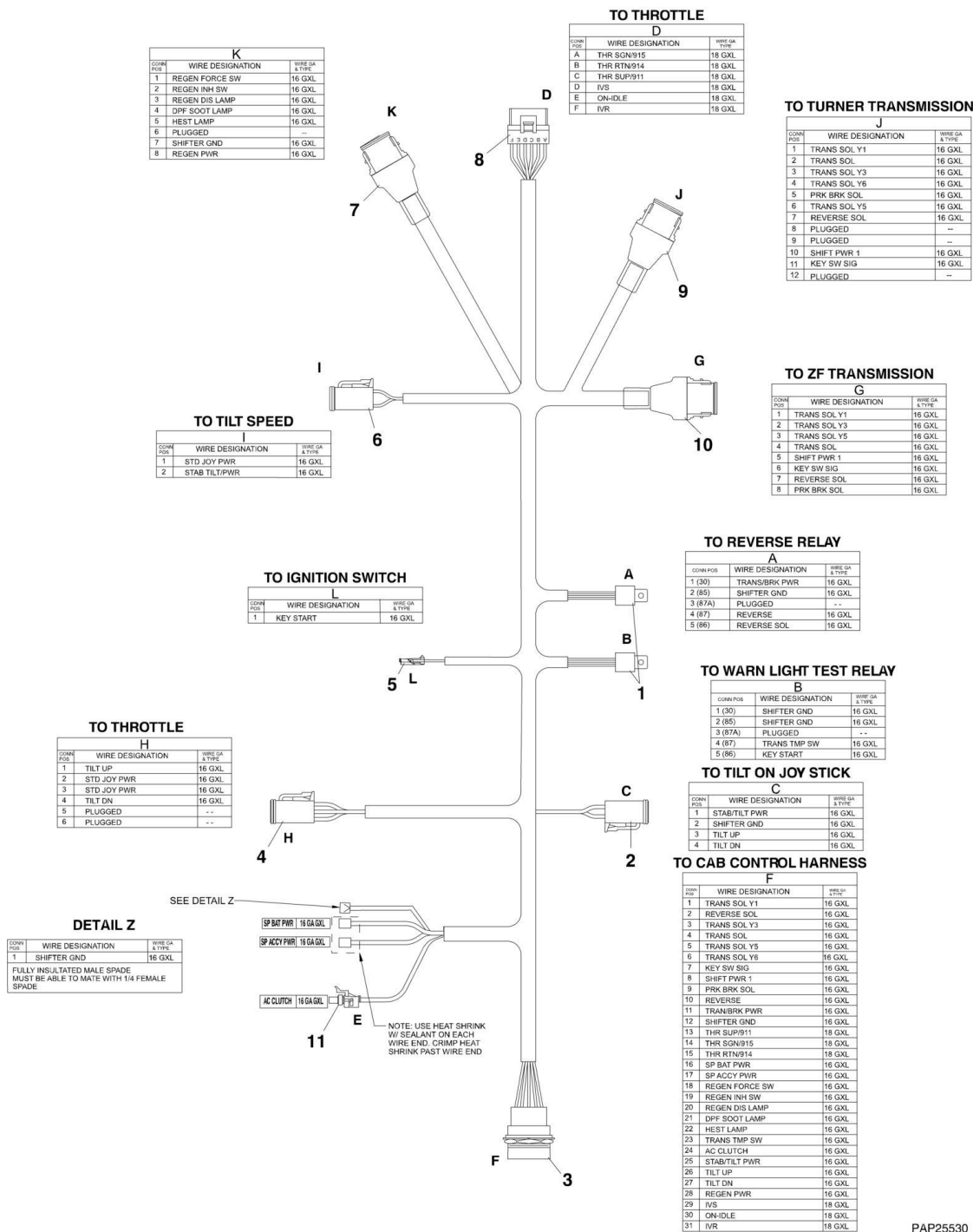
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001112039	1	VEC BOX HARNESS, (includes all items)	E
1	91504089	1	CONNECTOR	
1	4460464	10	CONTACT	
1	4460508	8	CONTACT	
1	4460466	1	PLUG	
2	4460930	1	CONNECTOR	
2	80604025	1	WEDGE LOCK	
2	4460465	8	TERMINAL	
3	4460742	1	CONNECTOR	
3	4460790	2	TERMINAL	
3	8220089	2	SEAL	
4	4460461	1	CONNECTOR	
4	4460457	2	TERMINAL	
4	4460790	3	TERMINAL	
4	4460458	2	SEAL	
4	8220089	3	SEAL	
4	1001116727	1	PLUG	
5	80484081	1	GREEN CONNECTOR	
5	7026414	1	CONNECTOR LOCK	
5	4460746	3	TERMINAL	
5	1001116727	1	PLUG	
5	4460458	3	SEAL	
5	1001116747	5	TERMINAL	
5	8220089	5	SEAL	
6	80484084	1	BLUE CONNECTOR	
6	7026414	1	CONNECTOR LOCK	
6	4460746	4	TERMINAL	
6	1001116727	1	PLUG	
6	4460458	4	SEAL	
6	1001116747	4	TERMINAL	
6	8220089	4	SEAL	
7	3740080	1	RELAY	
7	1001118282	1	CONNECTOR	
7	1001116733	4	TERMINAL	
7	1001128128	1	PLUG	
8	1001121557	NLA	BLACK CONNECTOR (no longer available, use 80484086 for replacement)	
8	80484086	1	BLACK CONNECTOR	
8	7026414	1	CONNECTOR LOCK	
8	4460746	3	TERMINAL	
8	1001116727	1	PLUG	
8	4460458	3	SEAL	
8	1001116747	5	TERMINAL	
8	8220089	5	SEAL	
9	80484085	1	GRAY CONNECTOR	
9	7026414	1	CONNECTOR LOCK	
9	4460746	4	TERMINAL	
9	1001116727	1	PLUG	
9	4460458	4	SEAL	
9	1001116747	3	TERMINAL	

SECTION 10 - ELECTRICAL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
9	8220089	3	SEAL	
10	4460891	1	CONNECTOR	
10	4460465	2	TERMINAL	
11	7026439	1	HOUSING	
11	4460419	7	TERMINAL	
12	4460742	1	CONNECTOR	
12	4460457	2	TERMINAL	
12	4460458	2	SEAL	
13	4460933	1	CONNECTOR	
13	80604016	1	WEDGE LOCK	
13	4460465	9	TERMINAL	
13	4460466	3	PLUG	

SECTION 10 - ELECTRICAL

FIGURE 10-17. TRANSMISSION RELAY HARNESS



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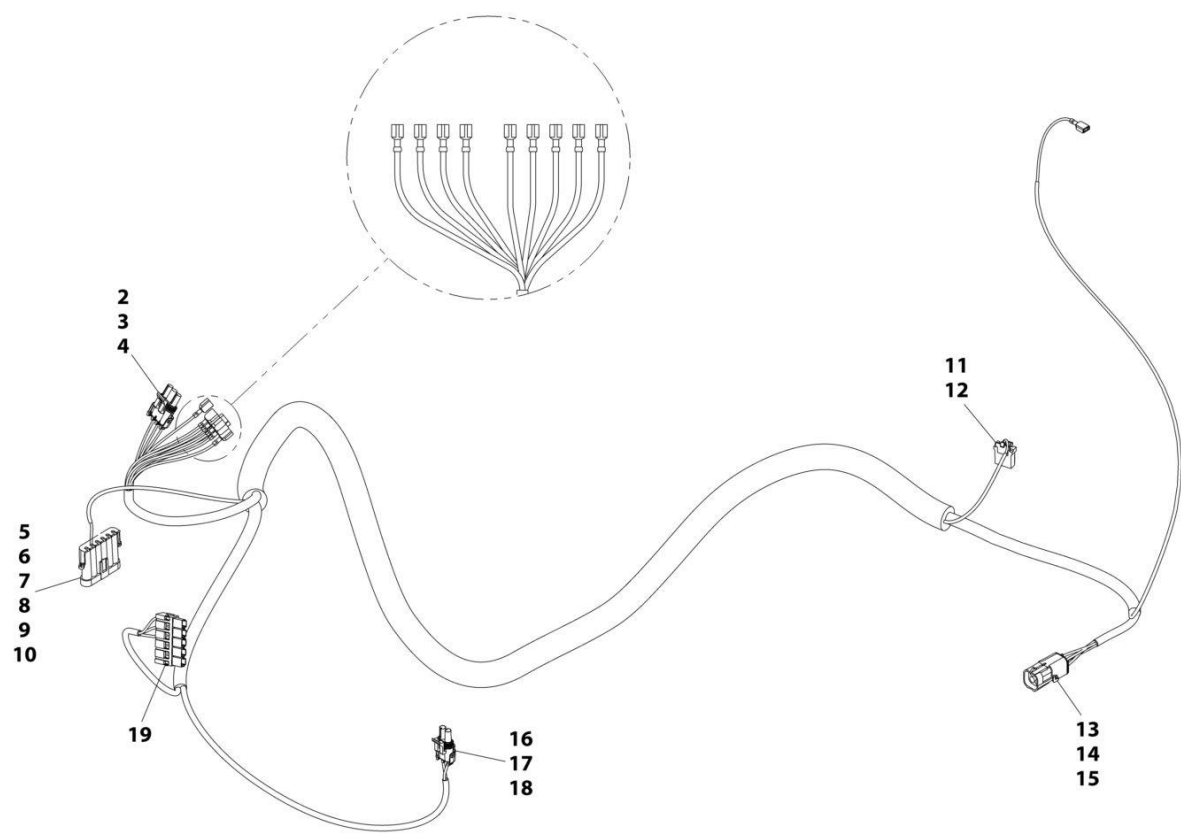
SECTION 10 - ELECTRICAL

FIGURE 10-17. TRANSMISSION RELAY HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001140233	1	TRANSMISSION RELAY HARNESS, (includes all items)	D
1	3740080	2	RELAY	
1	1001118282	1	METRI-PACK RELAY	
1	1001116733	4	TERMINAL	
1	1001128128	1	PLUG	
2	4460884	1	CONNECTOR	
2	80604021	1	CONNECTOR LOCK	
2	4460465	4	TERMINAL	
3	4460503	1	CONNECTOR	
3	4460464	31	TERMINAL	
3	83481286	1	NUT	
3	83481285	1	LOCKWASHER	
4	91504088	1	CONNECTOR	
4	91504107	1	CONNECTOR LOCK	
4	77363229	4	CONTACT	
4	4460466	2	PLUG	
5	80963055	1	CONNECTOR	
5	4460457	1	TERMINAL	
5	77394009	1	CABLE SEAL, RED	
6	7026408	1	CONNECTOR	
6	80604018	1	CONNECTOR LOCK	
6	77363229	2	CONTACT	
7	4460851	1	CONNECTOR	
7	80604025	1	WEDGE LOCK	
7	77363229	7	CONTACT	
7	4460466	1	PLUG	
7	70020870	1	BOOT	
8	1001230931	1	CONNECTOR	
8	1001116748	6	TERMINAL	
9	80604016	1	WEDGE LOCK	
9	4460465	9	TERMINAL	
9	4460930	1	CONNECTOR	
9	80604025	1	WEDGE LOCK	
10	4460930	1	CONNECTOR	
10	80604025	1	WEDGE LOCK	
10	4460465	1	TERMINAL	
10	70020870	1	BOOT	
11	80963055	1	CONNECTOR	
11	80963068	1	TERMINAL	
11	80963065	1	CABLE SEAL	

SECTION 10 - ELECTRICAL

FIGURE 10-18. ENCLOSED CAB OPTIONS HARNESS



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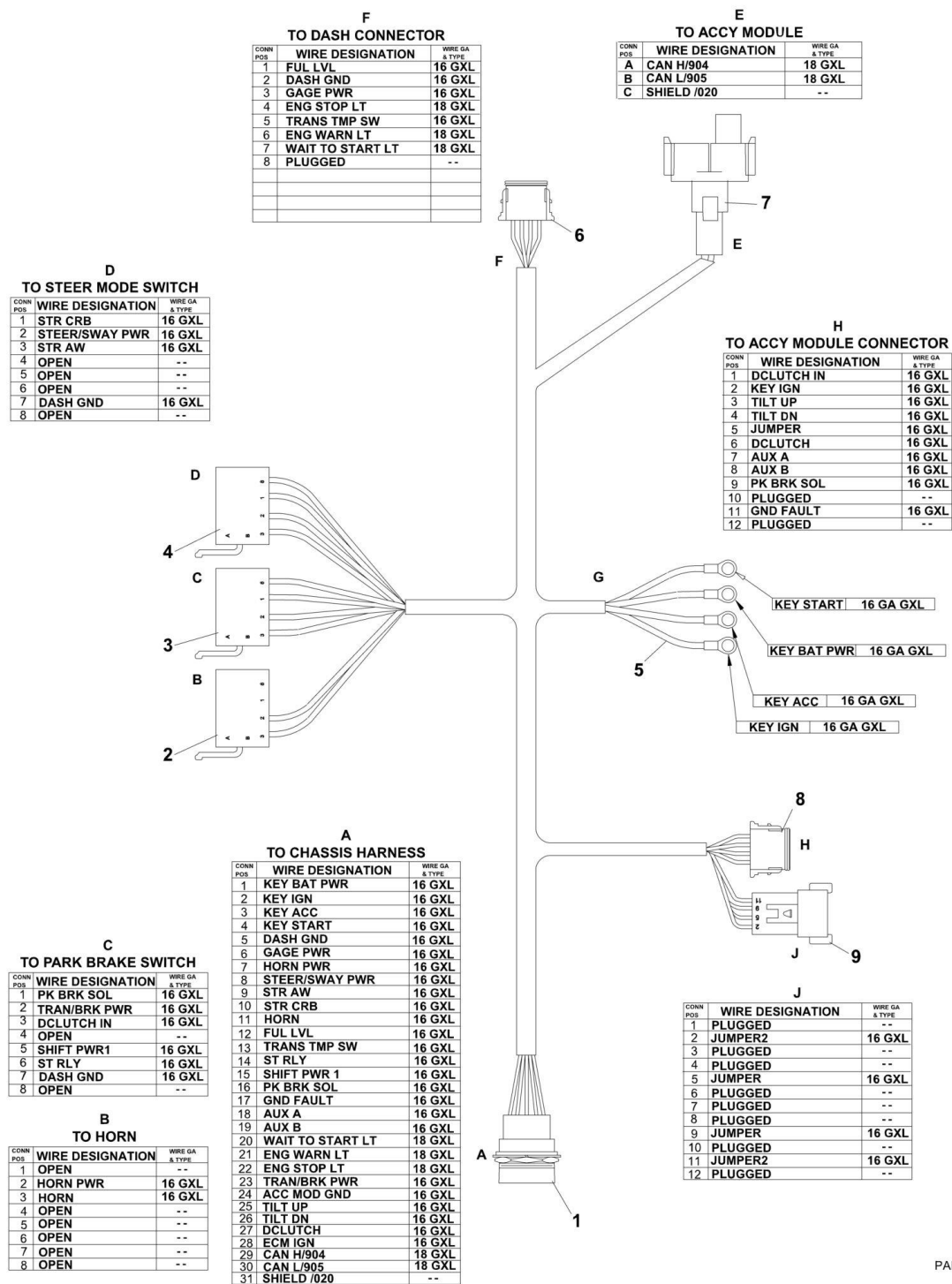
SECTION 10 - ELECTRICAL

FIGURE 10-18. ENCLOSED CAB OPTIONS HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91563185	Ref	ENCLOSED CAB OPTION HARNESS	B
2	4460459	1	TERMINAL, CONNECTOR	
3	4460743	3	TERMINAL, SOCKET	
4	80963065	1	SEAL, WEATHERPACK CABLE	
5	80963065	1	SEAL, WEATHERPACK CABLE	
6	80963064	1	SHROUD	
7	80963069	2	PIN, WEATHERPACK MALE	
8	4460850	3	TERMINAL, MALE PIN	
9	80963067	1	SEAL	
10	80963070	1	PLUG, DUST CAP	
11	7026429	1	CONNECTOR	
12	7026430	3	TERMINAL	
13	80963065	1	SEAL, WEATHERPACK CABLE	
14	80963069	4	PIN, WEATHERPACK MALE	
15	80963062	1	CONNECTOR	
16	80963057	1	TOWER	
17	80963068	2	TERMINAL	
18	80963065	1	SEAL, WEATHERPACK CABLE	
19	7026431	1	CONNECTOR	

SECTION 10 - ELECTRICAL

FIGURE 10-19. DASH HARNESS



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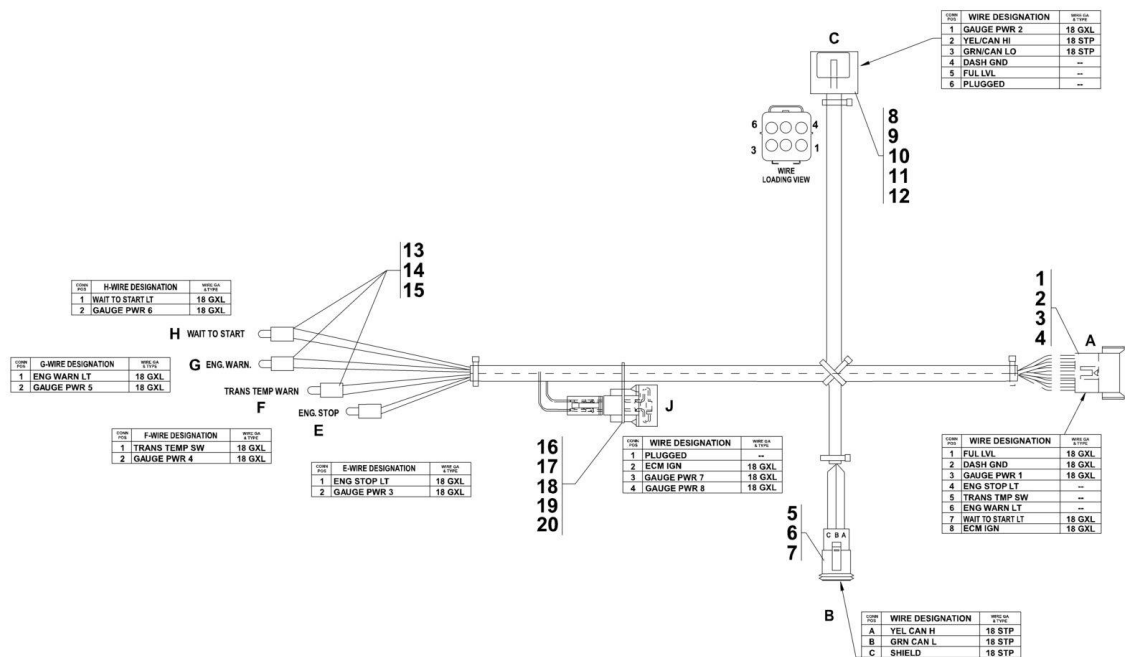
SECTION 10 - ELECTRICAL

FIGURE 10-19. DASH HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001108841	1	DASH HARNESS, (includes all items)	F
1	4460500	1	CONNECTOR	
1	4460465	30	TERMINAL	
1	4460466	1	PLUG	
1	83481286	1	NUT	
1	83481285	1	LOCKWASHER	
2	4460419	2	METRI-PACK CONNECTOR	
3	4460419	6	METRI-PACK CONNECTOR	
4	4460419	4	METRI-PACK CONNECTOR	
5	80963056	1	CONNECTOR	
5	4460475	1	TERMINAL	
6	8220524	1	CONNECTOR	
6	8220525	1	WEDGE LOCK	
6	4460465	7	TERMINAL	
6	4460466	1	PLUG	
7	1001116812	1	CONNECTOR,DT 3-PIN PLUG J1939	
7	91554019	1	CONNECTOR LOCK	
7	4460944	2	TERMINAL	
7	4460945	1	CONNECTOR	
7	70022224	1	CONNECTOR	
7	91554019	1	CONNECTOR LOCK	
8	7026425	1	CONNECTOR	
8	80604016	1	CONNECTOR LOCK	
8	4460465	10	TERMINAL	
8	4460466	2	PLUG	
9	80363178	1	CONNECTOR	
9	80363179	1	CONNECTOR LOCK	
9	4460465	4	TERMINAL	
9	4460466	8	PLUG	

SECTION 10 - ELECTRICAL

FIGURE 10-20. INSTRUMENT PANEL HARNESS



PAP26600

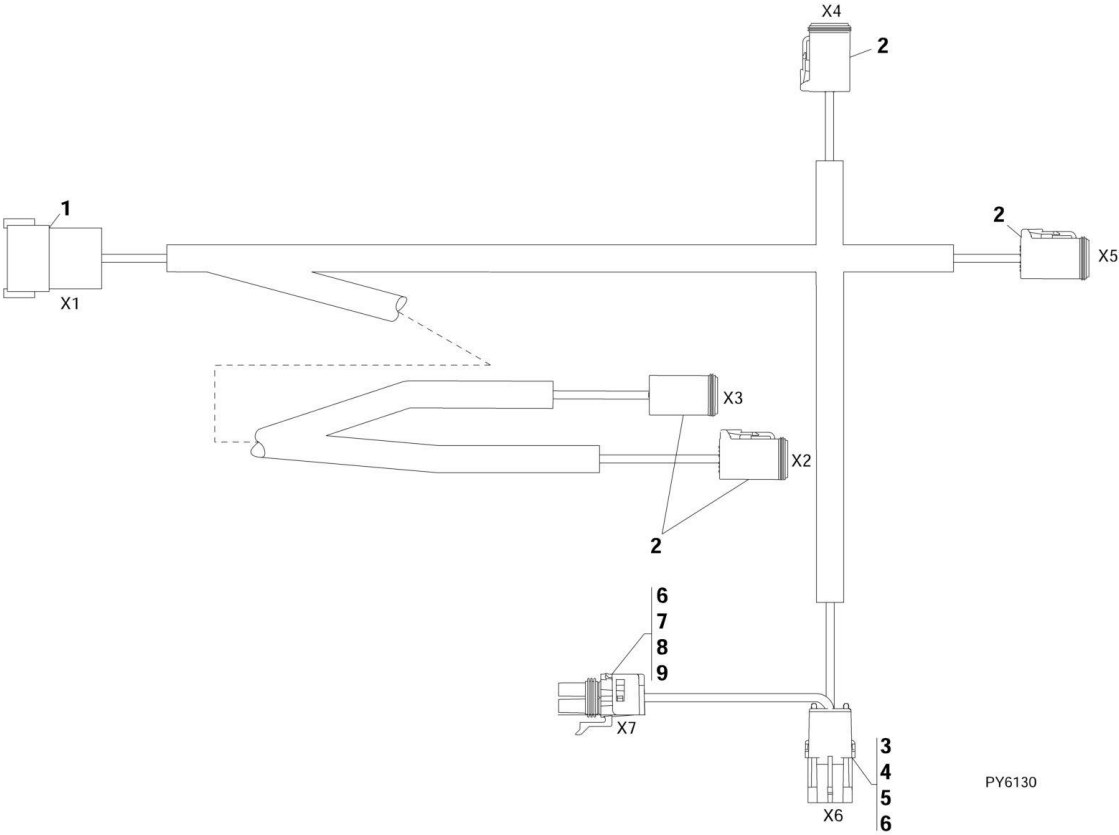
SECTION 10 - ELECTRICAL

FIGURE 10-20. INSTRUMENT PANEL HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001102815	1	INSTRUMENT PANEL HARNESS, (includes all items)	C
1	91503105	1	8 PIN RECEPTACLE	
2	91503106	1	WEDGE LOCK	
3	77363228	7	TERMINAL	
4	4460466	1	PLUG	
5	N.S.S.	1	CONNECTOR	
6	70022691	1	WEDGE LOCK	
7	4460944	3	CONTACT	
8	N.S.S.	1	CONNECTOR	
9	N.S.S.	1	DOUBLE LOCK PLATE	
10	N.S.S.	1	SOCKET	
11	N.S.S.	1	WIRE SEAL	
12	N.S.S.	1	PLUG	
13	7026437	4	BULB BASE	
14	7026438	8	TERMINAL	
15	80484088	4	BULB	
16	1001116816	1	DIODE	
17	4460465	3	TERMINAL	
18	80604021	1	WEDGE LOCK	
19	4460884	1	CONNECTOR	
20	4460466	1	PLUG	

SECTION 10 - ELECTRICAL

FIGURE 10-21. FRAME ROAD LIGHT HARNESS



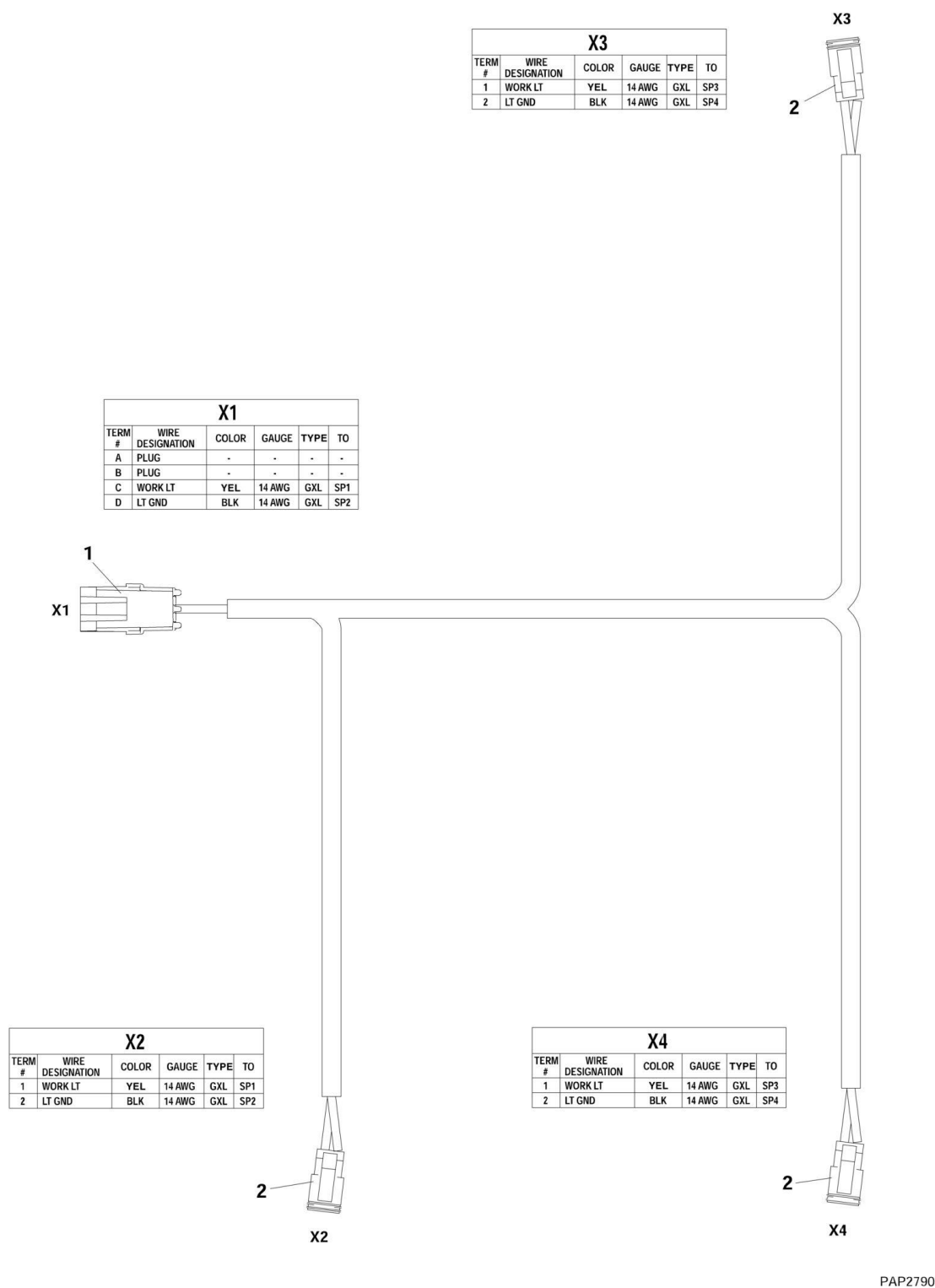
SECTION 10 - ELECTRICAL

FIGURE 10-21. FRAME ROAD LIGHT HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001125385	1	FRAME ROAD LIGHTS HARNESS, (if equipped), (includes all items)	A
1	91503105	1	CONNECTOR	
1	91503106	1	WEDGE LOCK	
2	7026909	4	CONNECTOR	
2	80604023	4	WEDGE LOCK	
3	80963062	1	CONNECTOR	
4	4460850	3	TERMINAL	
5	8220089	1	SEAL	
6	1001116727	4	PLUG	
7	80963061	1	CONNECTOR	
8	4460457	2	TERMINAL	
9	4460458	1	SEAL	

SECTION 10 - ELECTRICAL

FIGURE 10-22. BOOM WORK LIGHT HARNESS



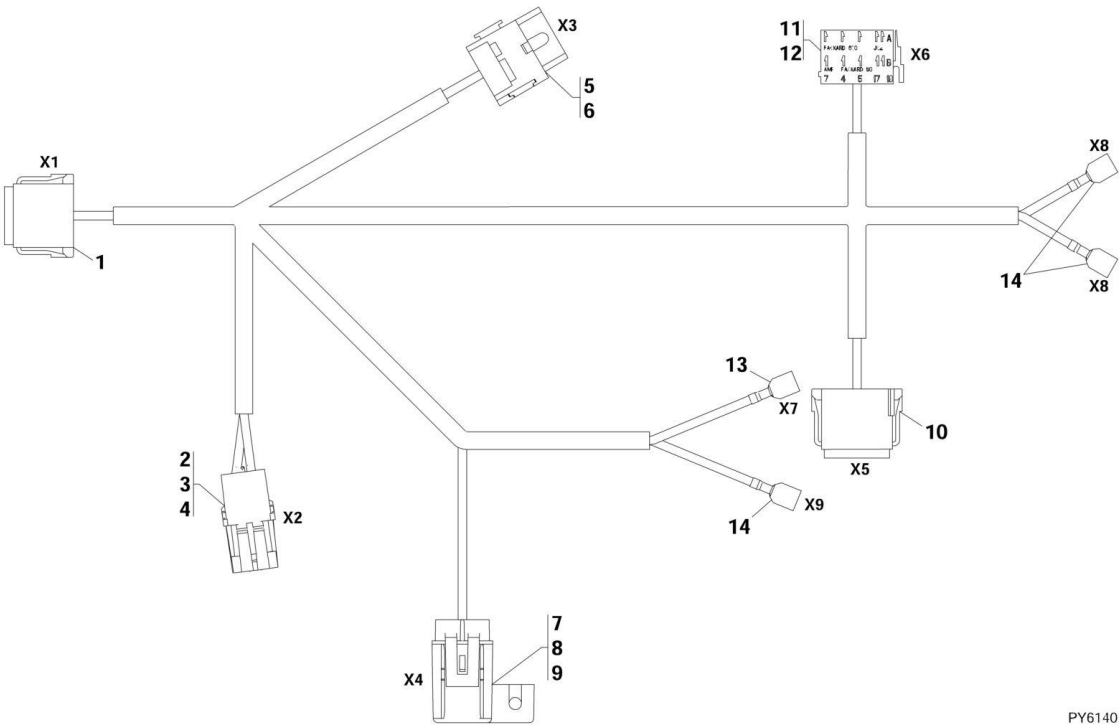
SECTION 10 - ELECTRICAL

FIGURE 10-22. BOOM WORK LIGHT HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001125382	1	BOOM WORK LIGHTS HARNESS, (if equipped), (includes all items)	A
1	80963062	1	CONNECTOR	
1	4460850	2	TERMINAL	
1	8220081	2	SEAL	
1	1001116727	2	PLUG	
2	4460891	3	PLUG CONNECTOR, (includes rear seal)	
2	80604018	1	WEDGE LOCK	
2	4460942	2	TERMINAL	

SECTION 10 - ELECTRICAL

FIGURE 10-23. CAB ROAD LIGHT HARNESS



PY6140

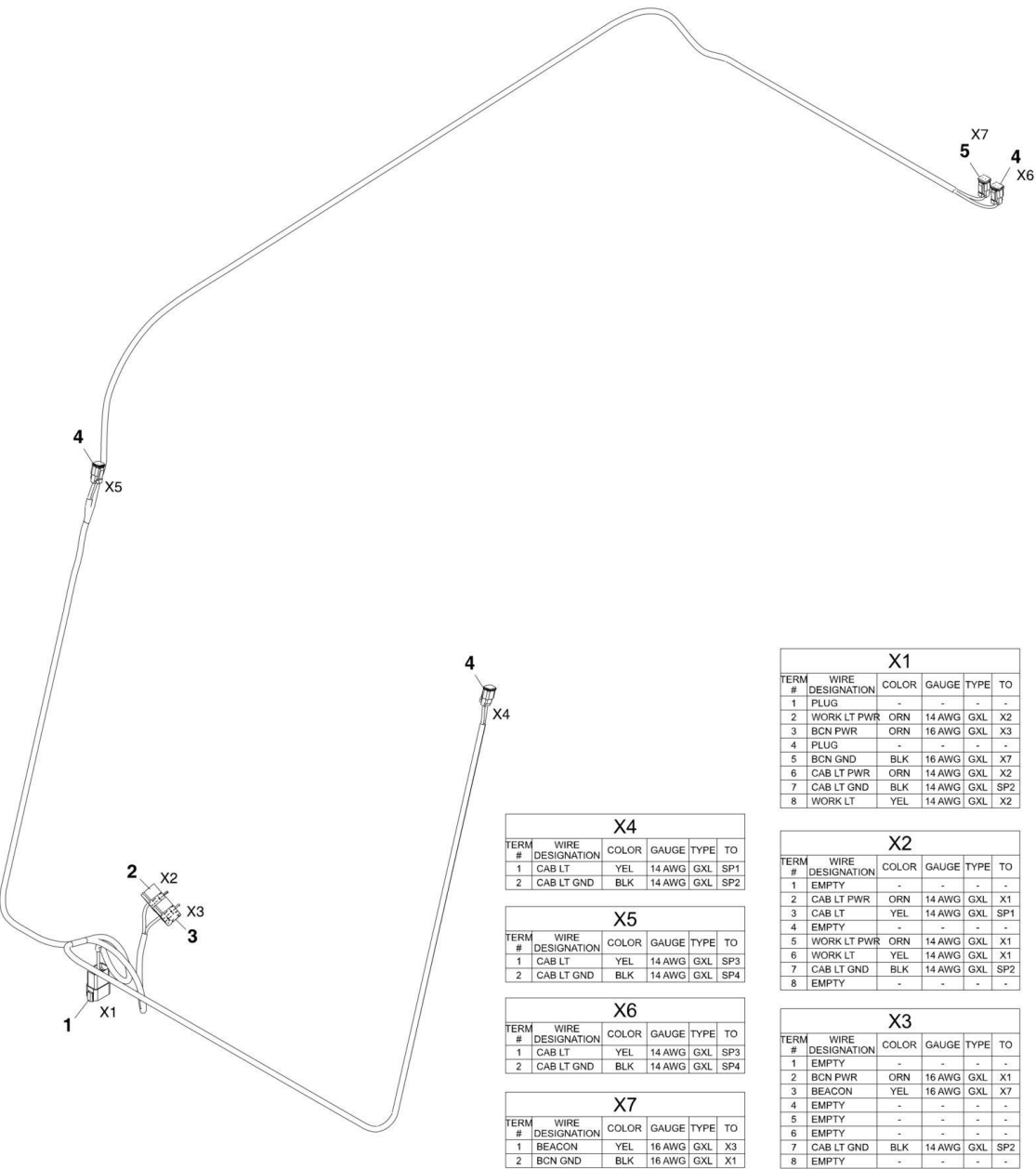
SECTION 10 - ELECTRICAL

FIGURE 10-23. CAB ROAD LIGHT HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001090509	1	CAB ROAD LIGHTS HARNESS, (if equipped), (includes all items)	C
1	4460851	1	CONNECTOR	
1	80604025	1	WEDGE LOCK	
2	4461157	1	CONNECTOR	
3	4460475	2	TERMINAL	
4	8220081	1	SEAL	
5	1001117058	1	CONNECTOR	
6	4460419	2	TERMINAL	
7	1001117018	1	CONNECTOR, (includes 15 amp fuse)	
8	1001116733	2	TERMINAL	
9	7029771	1	COVER	
10	4460934	1	CONNECTOR	
10	80604016	1	WEDGE LOCK	
11	1001117079	1	CONNECTOR	
12	1001118384	7	TERMINAL	
13	N.S.S.	1	1/4 SPADE TERMINAL	
14	N.S.S.	1	1/4 FEMALE TERMINAL	

SECTION 10 - ELECTRICAL

FIGURE 10-24. CAB WORK LIGHT HARNESS (Prior to SN 0160059446)



PAL7070

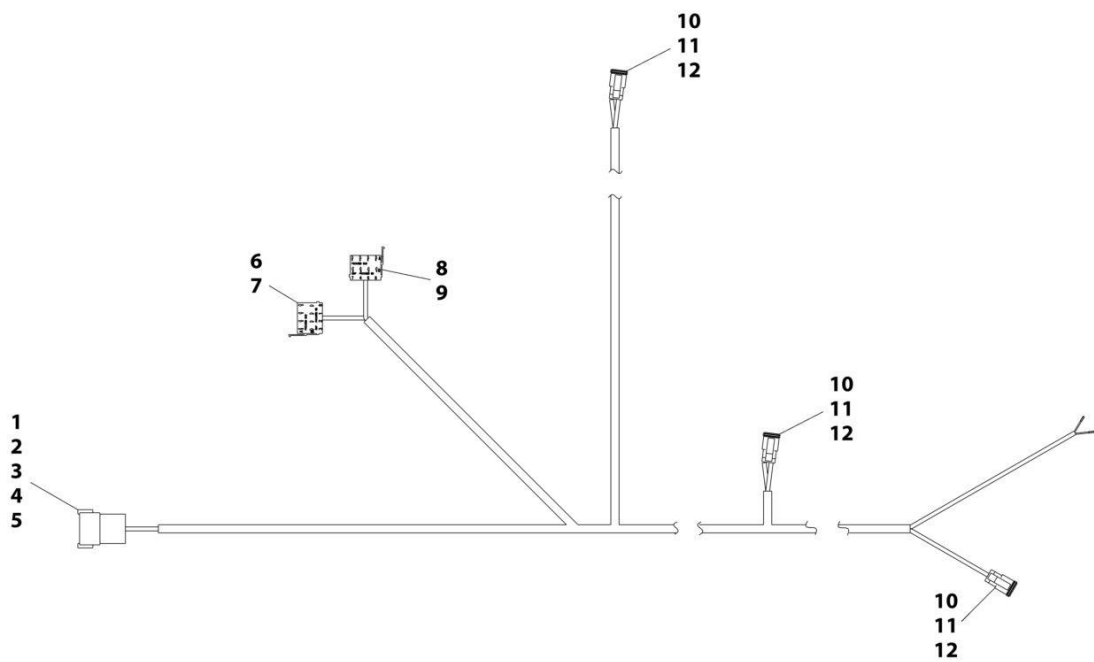
SECTION 10 - ELECTRICAL

FIGURE 10-24. CAB WORK LIGHT HARNESS (Prior to SN 0160059446)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001125384	1	CAB WORK LIGHT HARNESS, (includes all items)	B
1	91554017	1	DEUTSCH CONNECTOR	
1	8220525	1	WEDGELOCK	
1	4460465	2	SOCKET TERMINAL	
1	4460942	4	SOCKET TERMINAL	
1	4460466	2	PLUG	
2	7026439	1	CONNECTOR	
2	1001118384	5	TERMINAL	
3	7026439	1	CONNECTOR	
3	1001118384	3	TERMINAL	
4	4460891	3	PLUG CONNECTOR, (includes rear seal)	
4	80604018	1	WEDGELOCK	
4	4460942	2	SOCKET TERMINAL	
5	4460891	3	PLUG CONNECTOR, (includes rear seal)	
5	80604018	1	WEDGELOCK	
5	4460465	2	SOCKET TERMINAL	

SECTION 10 - ELECTRICAL

FIGURE 10-25. CAB WORK LIGHT HARNESS (SN 0160059446 to Present)



ART_1001158896-B

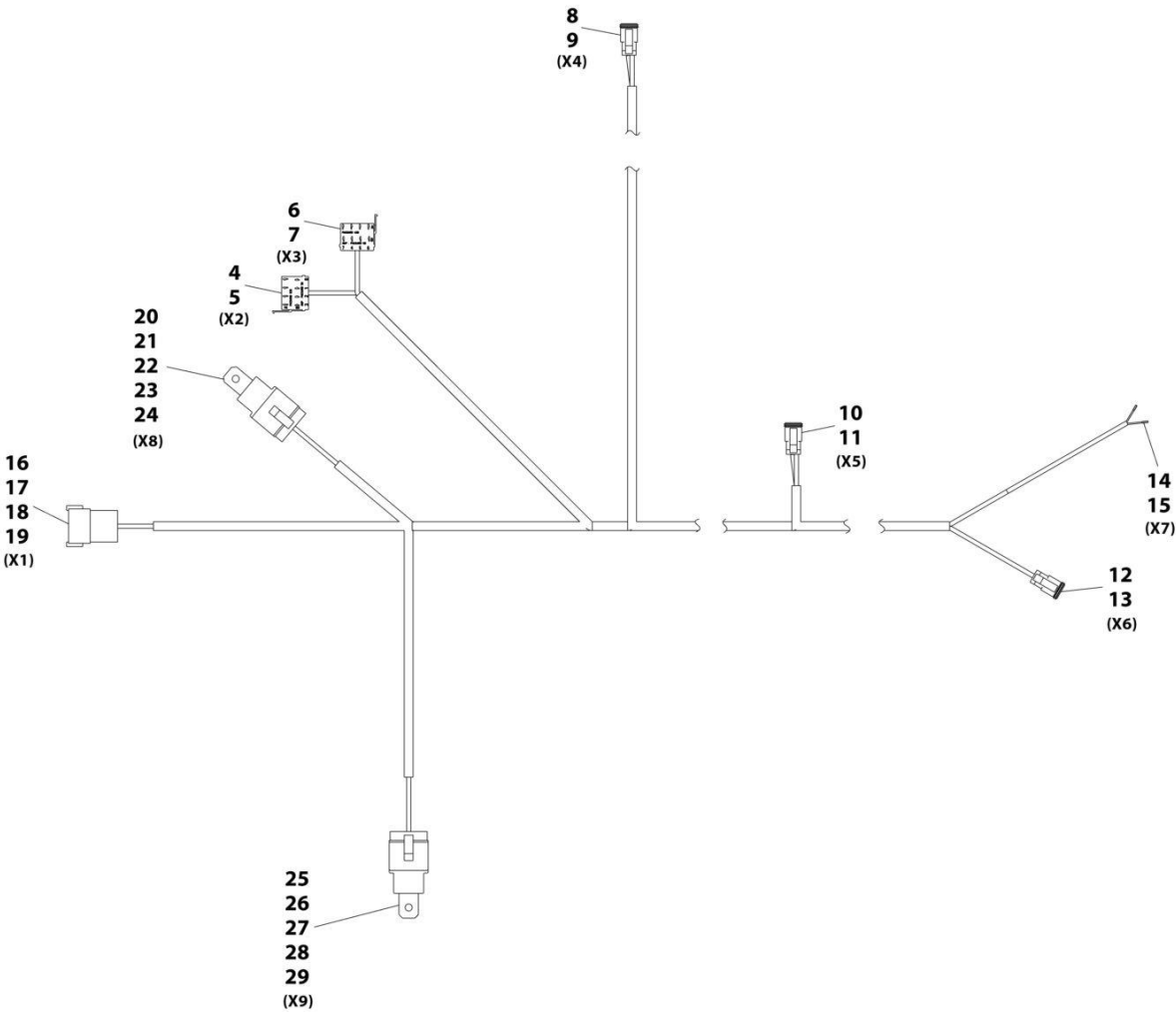
SECTION 10 - ELECTRICAL

FIGURE 10-25. CAB WORK LIGHT HARNESS (SN 0160059446 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001158896	Ref	CAB WORKLIGHT HARNESS, (no longer available, see items 1 thru 12 for service or 1001224062 for replacement)	B
1	91503105	1	CONNECTOR	
2	8220525	1	LOCK	
3	77363229	4	TERMINAL	
4	4460942	2	TERMINAL	
5	4460466	2	TERMINAL, SEALING PLUG	
6	7026439	1	HOUSING	
7	1001118384	5	TERMINAL	
8	7026439	1	HOUSING	
9	1001118384	3	TERMINAL	
10	7026408	3	CONNECTOR	
11	80604018	1	WEDGE LOCK	
12	80463058	2	TERMINAL	

SECTION 10 - ELECTRICAL

FIGURE 10-26. CAB WORK LIGHT HARNESS



ART_1001224062-B

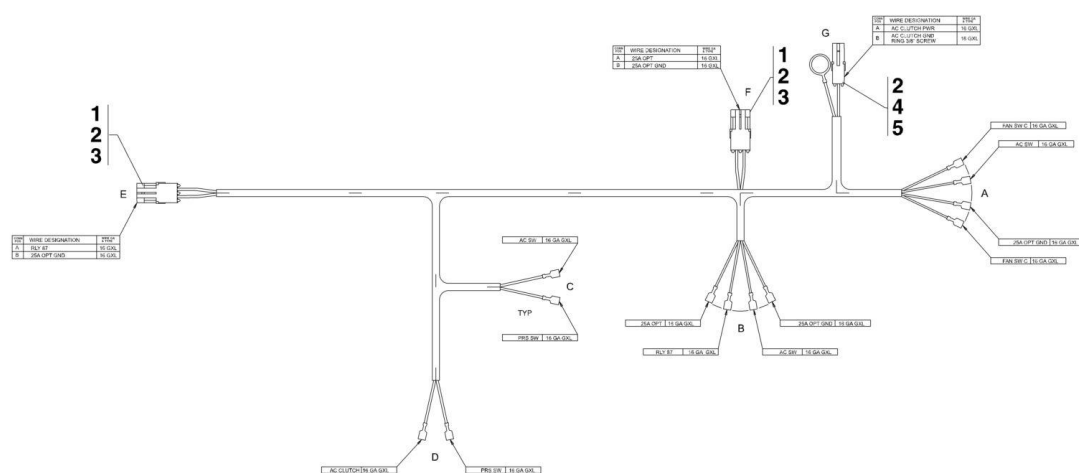
SECTION 10 - ELECTRICAL

FIGURE 10-26. CAB WORK LIGHT HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001224062	Ref	CAB WORK LIGHT HARNESS	A
1	4460931	1	CONNECTOR	
2	4460941	6	TERMINAL	
3	4460466	2	PLUG	
4	8220904	1	CONNECTOR	
5	1001118384	5	TERMINAL	
6	8220904	1	CONNECTOR	
7	1001118384	3	TERMINAL	
8	4460891	1	CONNECTOR	
9	4460942	2	TERMINAL	
10	4460891	1	CONNECTOR	
11	4460942	2	TERMINAL	
12	4460891	1	CONNECTOR	
13	4460942	2	TERMINAL	
14	4460458	1	SEAL	
15	4460746	2	TERMINAL,TANGED FEMALE METRI-PACK 280	
16	1001117025	1	CONNECTOR	
17	3740080	1	RELAY	
18	1001116733	4	TERMINAL	
19	1001128128	1	PLUG	
20	1001117025	1	CONNECTOR	
21	3740080	1	RELAY	
22	1001116733	4	TERMINAL	
23	1001128128	1	PLUG	

SECTION 10 - ELECTRICAL

FIGURE 10-27. A/C HARNESS



PAL3011

WIRE CHART										
WIRE DESIGNATION	WIRE COLOR/STRIPE	WIRE GAUGE	WIRE END A	WIRE END B	WIRE END C	WIRE END D	WIRE END E	WIRE END F	WIRE END G	REMARKS
25A OPT	ORANGE	16		1/4 FEMALE SPADE				PACKARD ASSY	PACKARD ASSY	25 AMP OPTION
25A OPT GND	BLACK	16	1/4 FEMALE SPADE	1/4 FEMALE SPADE			PACKARD ASSY			25 AMP OPTION GROUND
AC SW	YELLOW	16	1/4 FEMALE SPADE	1/4 FEMALE SPADE	1/4 FEMALE SPADE				RING 3/8" SCREW	AC SWITCH
AC CLUTCH	WHITE	16				1/4 FEMALE SPADE			PACKARD ASSY	AC CLUTCH
FAN SW C	GREEN	16	1/4 FEMALE SPADE 2X							AC SWITCH TO FAN C
PR5 SW	VIOLET	16			1/4 FEMALE SPADE	1/4 FEMALE SPADE				PRESSURE SWITCH
RLY 87	ORANGE	16		1/4 FEMALE SPADE			PACKARD ASSY			RELAY 87

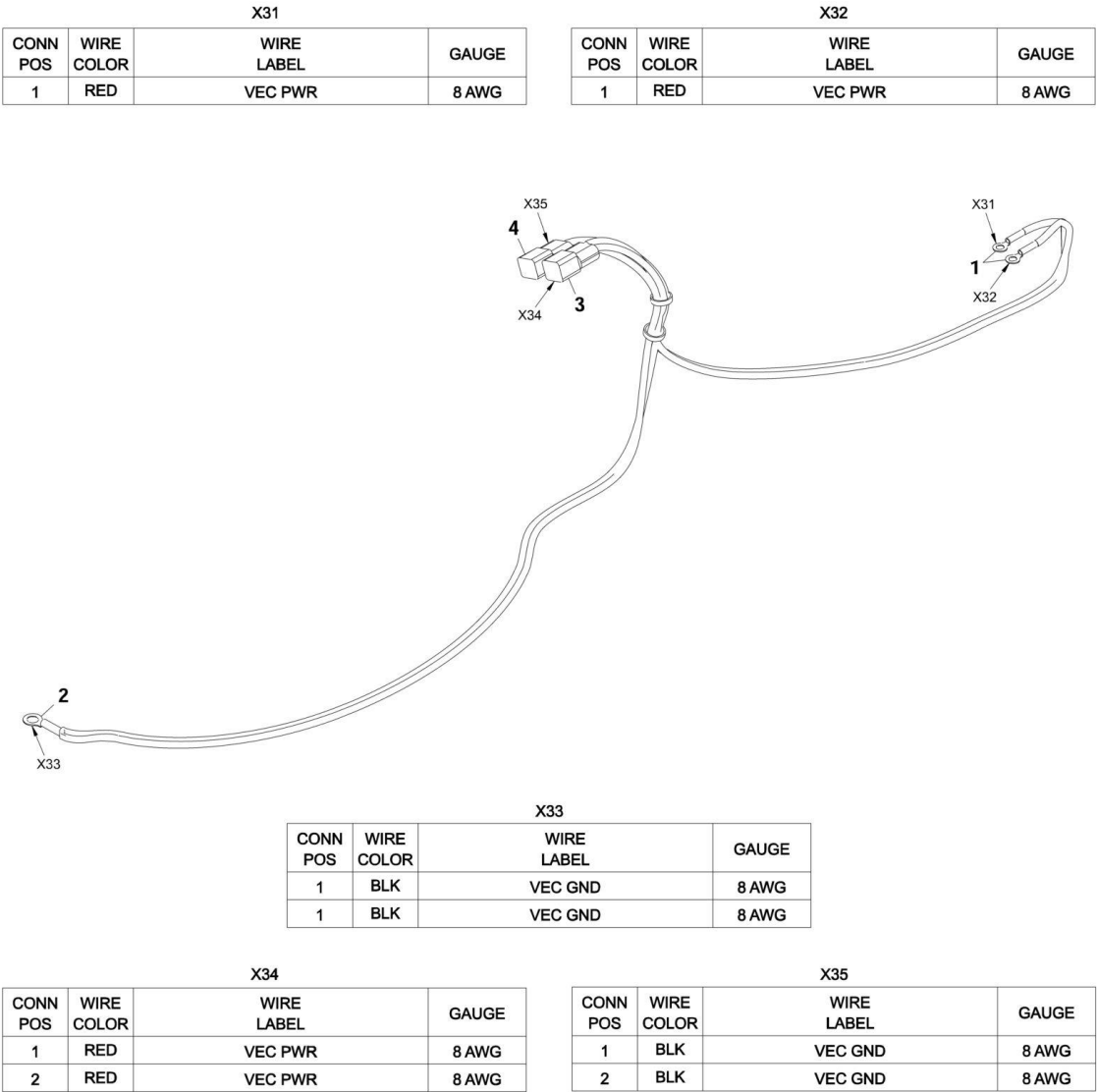
SECTION 10 - ELECTRICAL

FIGURE 10-27. A/C HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	91563247	1	A/C HARNESS, (includes items 1 thru 5)	D
1	80963058	2	SHROUD	
2	80963069	3	TERMINAL	
3	80963067	2	CABLE SEAL	
4	80963056	1	CONNECTOR	
5	80963065	1	CABEL SEAL, GREEN	

SECTION 10 - ELECTRICAL

FIGURE 10-28. VEC HARNESS



PY8100

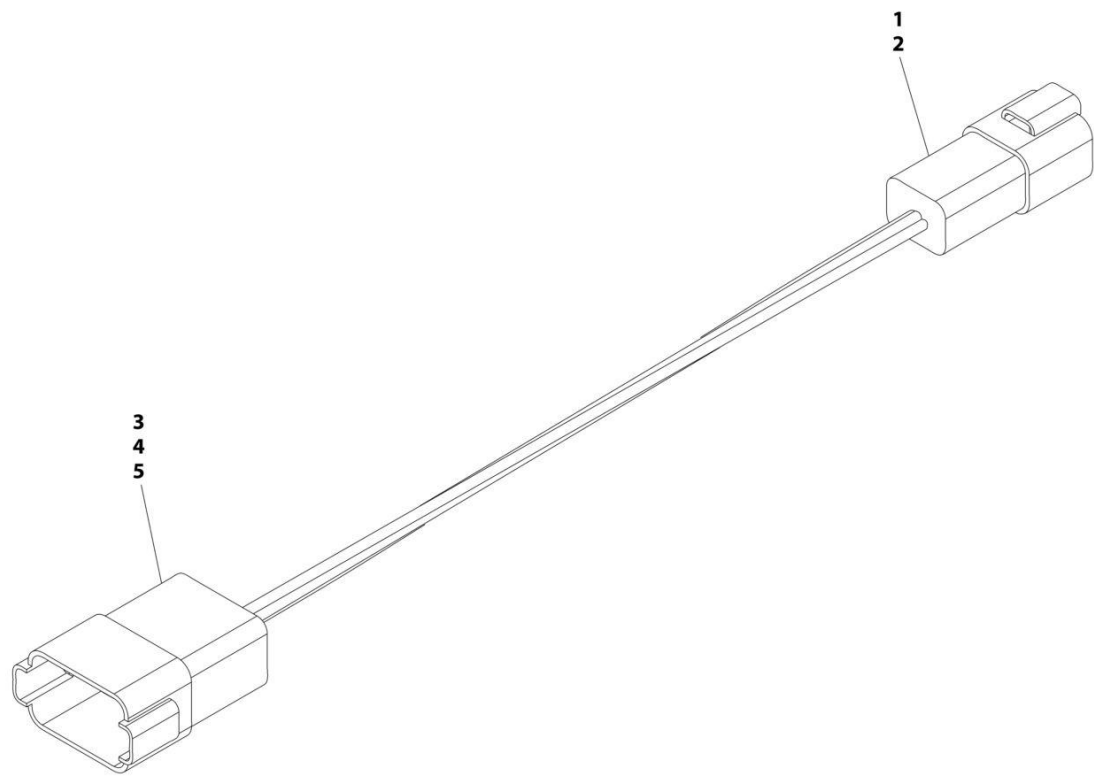
SECTION 10 - ELECTRICAL

FIGURE 10-28. VEC HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001131891	1	VEC HARNESS	C
1	1001117106	2	RING TERMINAL	
2	1001117112	1	RING TERMINAL	
3	1001117104	1	POSITIVE VEC CONNECTOR	
4	1001117103	1	NEGATIVE VEC CONNECTOR	

SECTION 10 - ELECTRICAL

FIGURE 10-29. TELEMATICS INSTALLATION, UNITED RENTALS, (WITH SHORT JUMPER HARNESS)



ART_1001195423-B

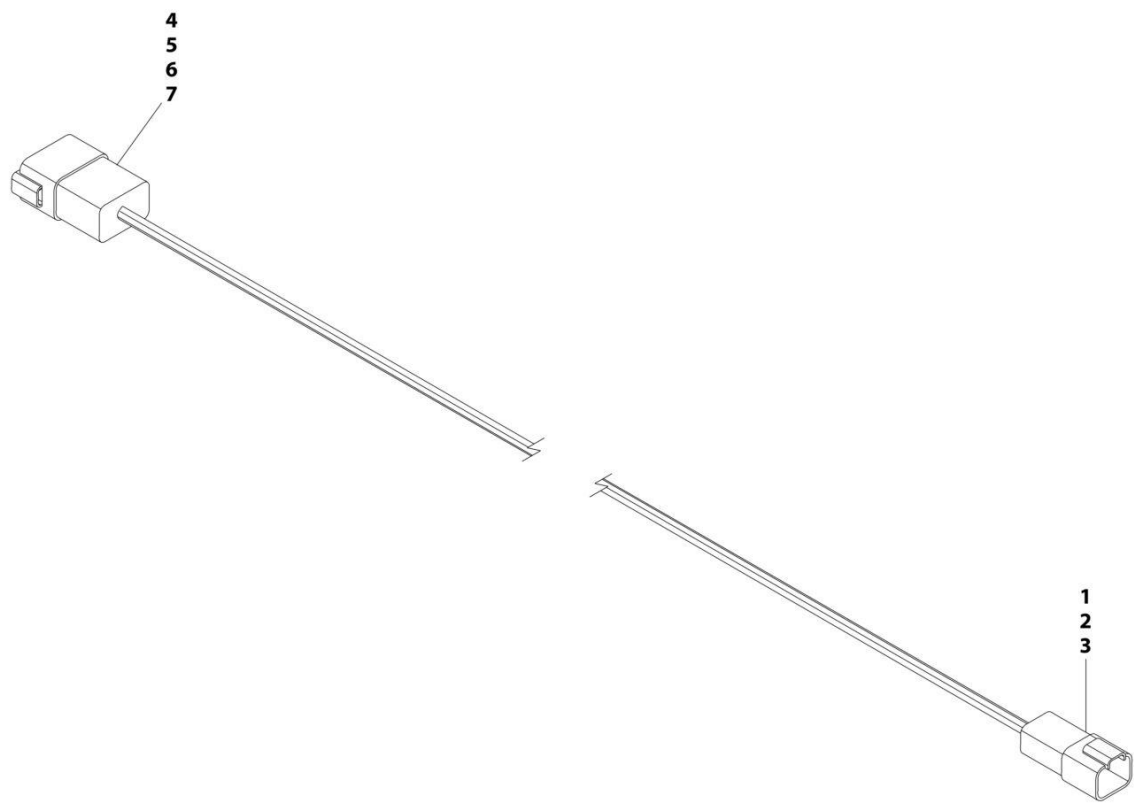
SECTION 10 - ELECTRICAL

FIGURE 10-29. TELEMATICS INSTALLATION, UNITED RENTALS, (WITH SHORT JUMPER HARNESS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001195423	1	TELEMATICS INSTALLATION, UNITED RENTALS, (with short jumper harness)	B
1	4460932	1	CONNECTOR	
2	4460464	4	TERMINAL	
3	4460931	1	CONNECTOR	
4	4460464	4	TERMINAL	
5	4460466	4	PLUG	

SECTION 10 - ELECTRICAL

FIGURE 10-30. TELEMATICS INSTALLATION, UNITED RENTALS, (WITH LONG JUMPER HARNESS)



ART_1001195424-A

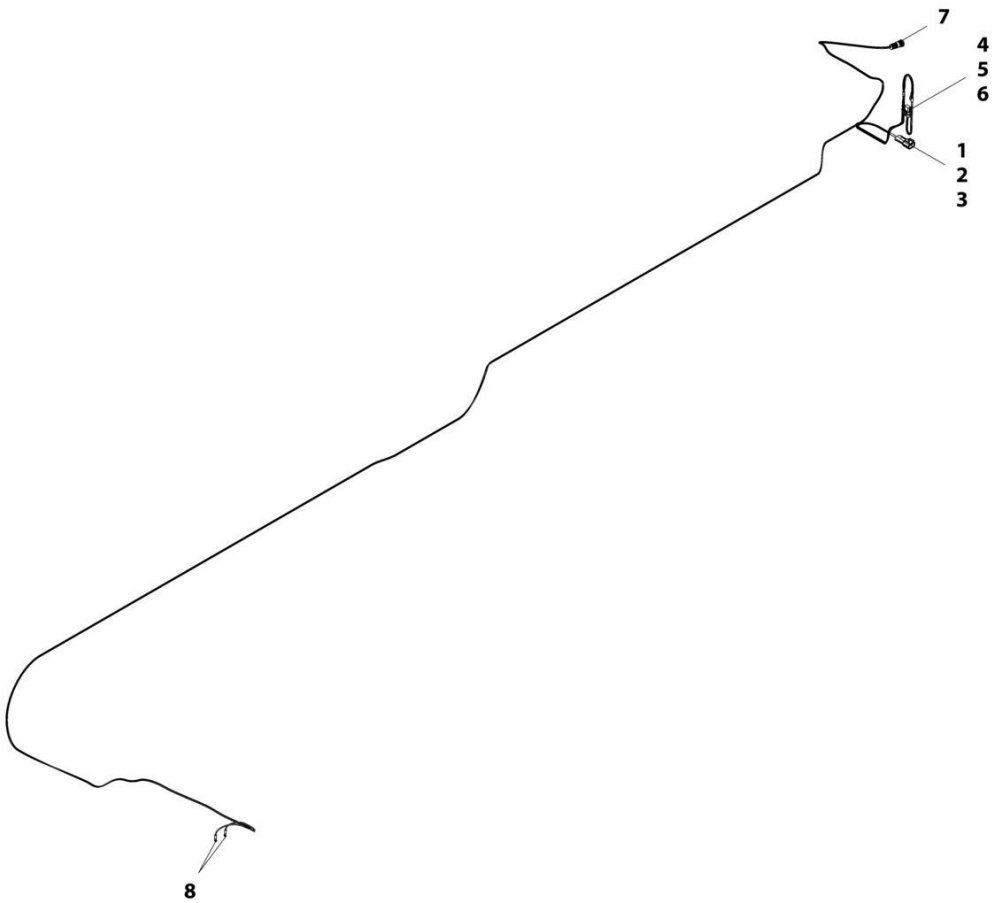
SECTION 10 - ELECTRICAL

FIGURE 10-30. TELEMATICS INSTALLATION, UNITED RENTALS, (WITH LONG JUMPER HARNESS)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001195424	1	TELEMATICS INSTALLATION, UNITED RENTALS, (with long jumper harness)	A
1	4460932	1	CONNECTOR	
2	80604020	1	LOCK CONNECTOR	
3	4460464	4	TERMINAL	
4	4460931	1	CONNECTOR	
5	80604022	1	LOCK CONNECTOR	
6	4460464	4	TERMINAL	
7	4460466	4	PLUG	

SECTION 10 - ELECTRICAL

FIGURE 10-31. REVERSE SENSOR HARNESS



ART_1001153084-B

SECTION 10 - ELECTRICAL

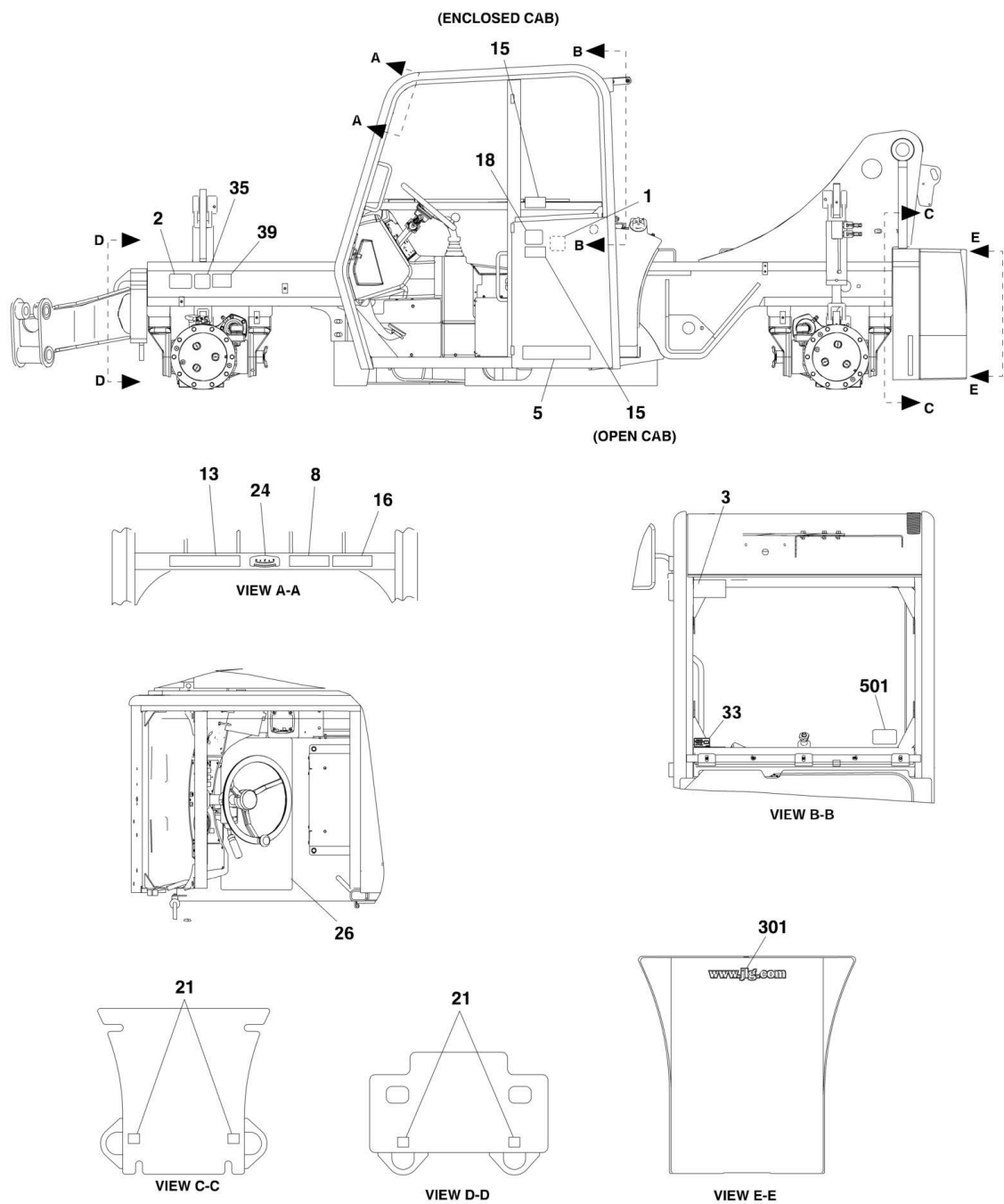
FIGURE 10-31. REVERSE SENSOR HARNESS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001153084	Ref	REVERSE SENSOR HARNESS	B
1	1001117021	1	CONNECTOR	
2	1001116728	2	TERMINAL	
3	4460458	2	TERMINAL, SEAL	
4	1001117026	1	CONNECTOR	
5	1001116745	2	TERMINAL	
6	4460458	2	TERMINAL, SEAL	
7	1001175733	1	CONNECTOR	
8	1001098122	2	TERMINAL, RING	

SECTION 11 - DECALS

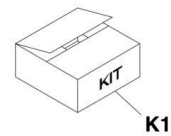
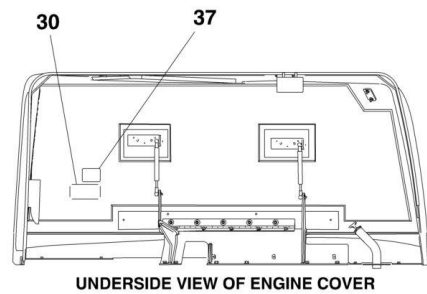
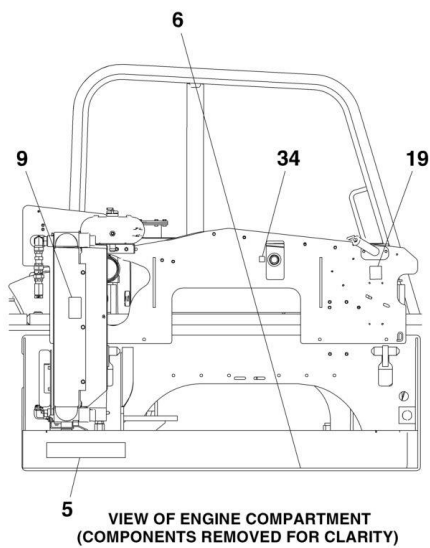
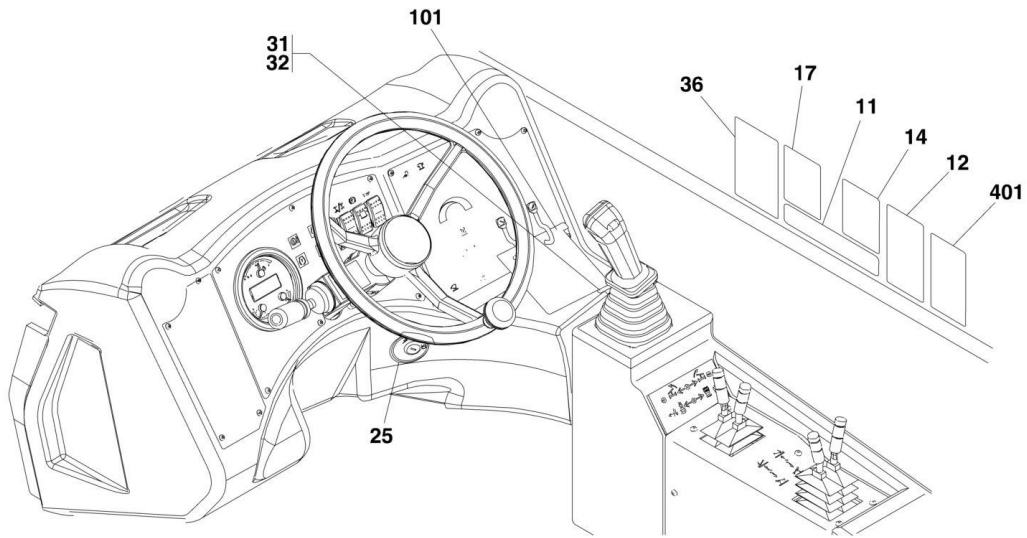
SECTION 11 - DECALS

FIGURE 11-1. CAB AND FRAME DECALS



ART_31200728-11-1_1

SECTION 11 - DECALS



ART_31200728-11-1_2

SECTION 11 - DECALS

FIGURE 11-1. CAB AND FRAME DECALS

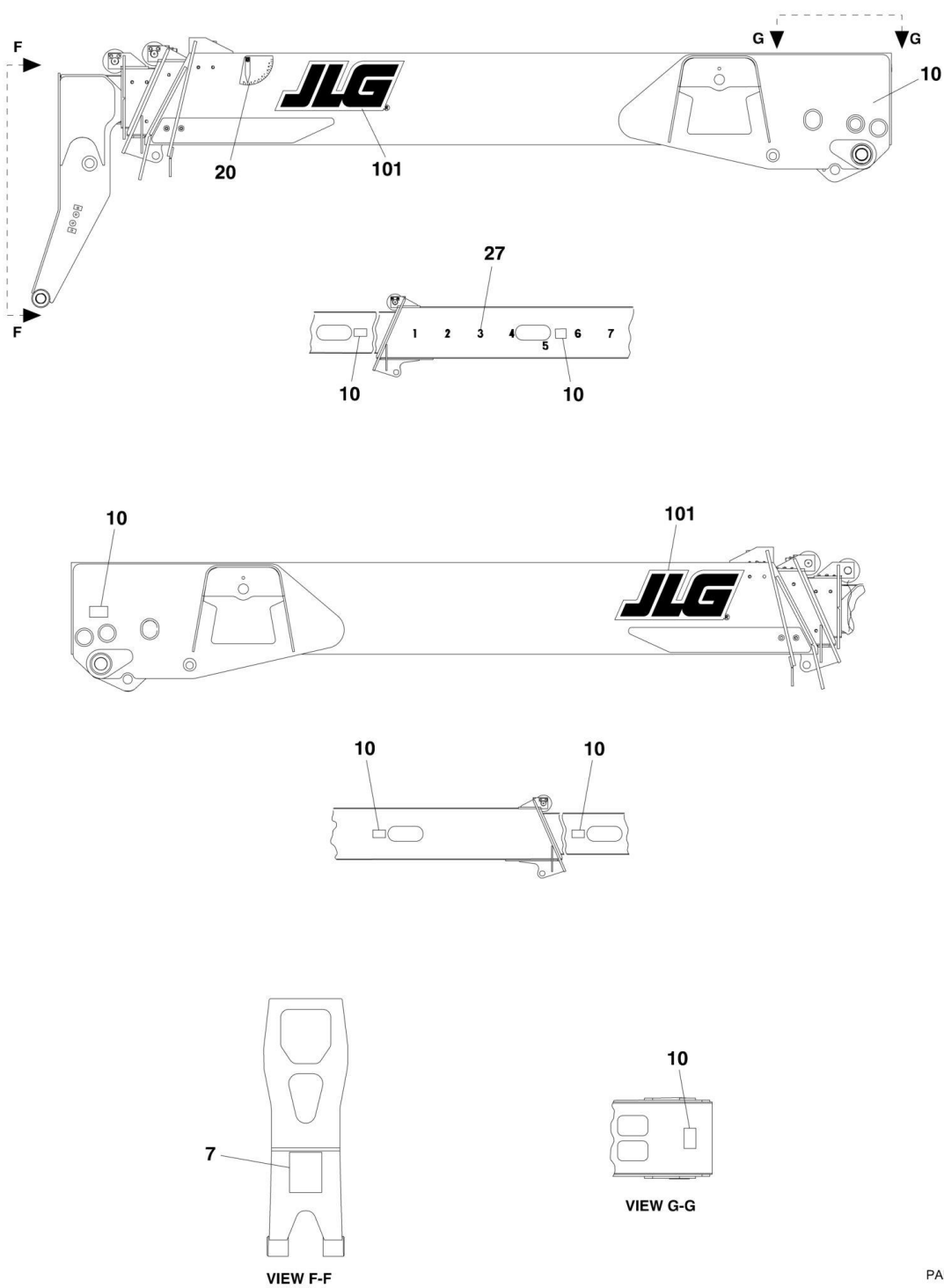
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001135774	Ref	DECAL INSTALLATION (ANSI), (not available to order, see items 1 thru 37 & 39 on CAB AND FRAME DECALS and all items on BOOM DECALS for service) (G10-55A)	I
	1001135775	Ref	DECAL INSTALLATION (ISO), (not available to order, see items 1 thru 39 on CAB AND FRAME DECALS and all items on BOOM DECALS for service) (G10-55A)	J
	1001135771	Ref	DECAL INSTALLATION (ANSI), (not available to order, see items 1 thru 37 & 39 on CAB AND FRAME DECALS and all items on BOOM DECALS for service) (G12-55A)	J
	1001135773	Ref	DECAL INSTALLATION (ISO), (not available to order, see items 1 thru 39 on CAB AND FRAME DECALS and all items on BOOM DECALS for service) (G12-55A)	J
	1001163578	Ref	DECAL INSTALLATION (English\French), (not available to order, see items 1 thru 39 on CAB AND FRAME DECALS and all items on BOOM DECALS for services) (G10-55A)	C
	1001163574	Ref	DECAL INSTALLATION (English\French), (not available to order, see items 1 thru 39 on CAB AND FRAME DECALS and all items on BOOM DECALS for services) (G12-55A)	C
1	1701640	1	MANUAL DECAL	
2	N.S.S.	1	SN PLATE	
3	1706300	1	ETHER START WARNING DECAL, (ANSI)	
3	1706098	1	ETHER START WARNING DECAL, (ISO)	
3	1001163212	1	ETHER START WARNING DECAL, (English\French)	
5	1706187	2	DECAL INSTALLATION - MODEL (G10-55A)	
5	1706186	2	DECAL INSTALLATION - MODEL (G12-55A)	
6	1706296	1	BATTERY DECAL, (ANSI)	
6	1706281	1	BATTERY DECAL, (ISO)	
6	1001163174	1	BATTERY DECAL, (English\French)	
8	1706299	1	ELECTROCUTION HAZARD DECAL, (ANSI)	
8	1706284	1	ELECTROCUTION HAZARD DECAL, (ISO)	
8	1001163210	1	ELECTROCUTION HAZARD DECAL, (English\French)	
9	1706301	1	ROTATING PARTS DECAL, (ANSI)	
9	1706285	1	ROTATING PARTS DECAL, (ISO)	
9	1001163222	1	ROTATING PARTS DECAL, (English\French)	
11	1706303	1	READ MANUAL DECAL, (ANSI)	
11	1706287	1	READ MANUAL DECAL, (ISO)	
11	1001163273	1	READ MANUAL DECAL, (English\French)	
12	1706304	1	RUN OVER DECAL, (ANSI)	
12	1706293	1	RUN OVER DECAL, (ISO)	
12	1001163276	1	RUN OVER DECAL, (English\French)	
13	1706306	1	TIP OVER DECAL, (ANSI)	
13	1706288	1	TIP OVER DECAL, (ISO)	
13	1001163285	1	TIP OVER DECAL, (English\French)	
14	1706767	1	MACHINE ROLL DECAL, (ANSI)	
14	1706289	1	MACHINE ROLL DECAL, (ISO)	
14	1001163291	1	MACHINE ROLL DECAL, (English\French)	
15	1706768	1	NO RIDERS DECAL, (ANSI)	
15	1001092878	1	NO RIDERS DECAL, (ISO)	
15	1001163300	1	NO RIDES DECAL, (English\French)	
16	1706850	1	CRUSH HAZARD WARNING DECAL, (ANSI)	
16	1001092877	1	CRUSH HAZARD WARNING DECAL, (ISO)	
16	1001163304	1	CRUS HAZARD WARNING DECAL, (English\French)	

SECTION 11 - DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
17	1706851	1	TIP OVER DECAL, (ANSI)	
17	1706283	1	TIP OVER DECAL, (ISO)	
17	1001163321	1	TIP OVER DECAL, (English\French)	
18	3251813	1	USA DECAL	
19	4100181	1	HYDRAULIC OIL DECAL	
21	1702300	4	TIE-DOWN DECAL	
24	8466306	1	TILT ANGLE GAUGE	
25	91413061	1	IGNITION SWITCH DECAL	
26	1001152569	1	NON SKID FLOOR	
30	1001139578	1	HOT FLUID WARNING DECAL, (ANSI)	
30	1001163323	1	HOT FLUID WARNING DECAL, (English\French)	
31	1001145498	1	MAINTENANCE CHART DECAL, (ANSI AND ISO)	
31	1001145498	1	MAINTENANCE CHART DECAL, (English\French)	
32	1001150157	1	LUBRICATION CHART DECAL	
33	1001125387	1	ULTRA LOW SULFUR DIESEL DECAL, (ANSI)	
33	1001163355	1	ULTRA LOW SULFUR DIESEL DECAL, (English\French)	
34	1001130323	1	OIL LEVEL DECAL	
35	1001131271	1	TELEHANDLERS PATENT DECAL	
36	1001131745	1	BOOM CONTROL DECAL	
37	1001109053	1	COOLANT FILL DECAL	
39	1702631	1	BAR CODE ASSY DECAL	
101	1001115135	1	CAPACITY CHART BOOKLET (ANSI) (G10-55A)	B
101	1001115138	1	OPTIONAL CAPACITY CHART BOOKLET (ANSI) (G10-55A)	G
101	1001115175	1	CAPACITY CHART BOOKLET (ISO) (G10-55A)	B
101	1001115183	1	OPTIONAL CAPACITY CHART BOOKLET (ISO) (G10-55A)	F
101	1001115536	1	CAPACITY CHART BOOKLET (ANSI) (G12-55A)	B
101	1001115540	1	OPTIONAL CAPACITY CHART BOOKLET (ANSI) (G12-55A)	G
101	1001115190	1	CAPACITY CHART BOOKLET (ISO) (G12-55A)	B
101	1001115198	1	OPTIONAL CAPACITY CHART BOOKLET (ISO) (G12-55A)	F
201	91163028	1	SHIFTER DECAL, (not shown)	
202	91503112	1	AUX HYDRAULIC DECAL, (not shown)	
204	1001103956	1	A/C TEMPERATURE DECAL, (if equipped), (not shown)	
301	1704885	1	WEBSITE DECAL	
401	1001160072	1	DECAL, REVERSE SENSING SYSTEM, (English)	
401	1001160945	1	DECAL, REVERSE SENSING SYSTEM, (English\French)	
401	1001160916	1	DECAL, REVERSE SENSING SYSTEM, (ISO)	
501	1001160071	1	REAR EMERGENCY EXIT DECAL, (English)	
501	1001160787	1	REAR EMERGENCY EXIT DECAL, (English\French)	
501	1001160912	1	REAR EMERGENCY EXIT DECAL, (ISO)	
K1	1001163420	1	DECAL CAB KIT, (English\French), (include items 8, 13, 15 thru 16)	
K1	1001163422	1	DECAL CAB KIT, (English\French), (include items 11, 12, 14 thru 17)	

SECTION 11 - DECALS

FIGURE 11-2. BOOM DECALS



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SECTION 11 - DECALS

FIGURE 11-2. BOOM DECALS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001135774	Ref	DECAL INSTALLATION (ANSI), (not available to order, see items 1 thru 37 & 39 on CAB AND FRAME DECALS and all items on BOOM DECALS for service) (G10-55A)	I
	1001135775	Ref	DECAL INSTALLATION (ISO), (not available to order, see items 1 thru 39 on CAB AND FRAME DECALS and all items on BOOM DECALS for service) (G10-55A)	J
	1001135771	Ref	DECAL INSTALLATION (ANSI), (not available to order, see items 1 thru 37 & 39 on CAB AND FRAME DECALS and all items on BOOM DECALS for service) (G12-55A)	J
	1001135773	Ref	DECAL INSTALLATION (ISO), (not available to order, see items 1 thru 39 on CAB AND FRAME DECALS and all items on BOOM DECALS for service) (G12-55A)	J
	1001163578	Ref	DECAL INSTALLATION (English\French), (not available to order, see items 1 thru 39 on CAB AND FRAME DECALS and all items on BOOM DECALS for services) (G10-55A)	A
	1001163574	Ref	DECAL INSTALLATION (English\French), (not available to order, see items 1 thru 39 on CAB AND FRAME DECALS and all items on BOOM DECALS for services) (G12-55A)	A
7	1706298	1	CARRY PERSONNEL DECAL, (ANSI)	
7	1706282	1	CARRY PERSONNEL DECAL, (ISO)	
7	1001163206	1	CARRY PERSONAL DECAL, (English\French)	
10	1706302	7	PINCH POINT DECAL, (ANSI)	
10	1706292	7	PINCH POINT DECAL, (ISO)	
10	1001163223	7	PINCH POINT DECAL, (English\French)	
20	4105262	1	BOOM ANGLE INDICATOR DECAL	
27	91553072	1	BOOM NUMBERS DECAL	
101	1706185	2	JLG DECAL	

SECTION 12 - RECOMMENDED SPARE PARTS

SECTION 12 - RECOMMENDED SPARE PARTS

FIGURE 12-1. RECOMMENDED SPARE PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	Note	Ref	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.	
		Ref	BOOM	
	91163036	3	LEAF CHAIN, (Extend) (G10-55A)	
	91163035	3	LEAF CHAIN, (Extend) (G12-55A)	
	91163036	1	LEAF CHAIN, (Retract) (G10-55A)	
	91163035	1	LEAF CHAIN, (Retract) (G12-55A)	
	1001098180	1	HOSE ASSY, (Tilt Cylinder)	
	1001098179	1	HOSE ASSY, (Tilt Cylinder)	
	1001097037	2	HOSE ASSY	
	1001097038	2	HOSE ASSY	
	91033189	6	WEAR PAD (G10-55A)	
	91033189	4	WEAR PAD (G12-55A)	
	91033186	12	WEAR PAD (G10-55A)	
	91033186	12	WEAR PAD (G12-55A)	
	1001117653	4	WEAR PAD (G10-55A)	
	1001117652	12	WEAR PAD (G10-55A)	
	1001117652	8	WEAR PAD (G12-55A)	
	1001117653	4	WEAR PAD (G12-55A)	
	91163188	6	WEAR PAD (G10-55A)	
	91163188	6	WEAR PAD (G12-55A)	
	91163214	2	WEAR PAD (G10-55A)	
	91163214	6	WEAR PAD (G12-55A)	
	1001117660	4	WEAR PAD (G12-55A)	
	91161184	AR	SHIM, 0.0598	
	90205870	AR	SHIM, 0.0598	
	91121082	AR	SHIM, 0.0598	
	91141302	AR	SHIM, 0.0598	
	91161183	4	SPACER	
	91031236	24	SPACER (G10-55A)	
	91031236	20	SPACER (G12-55A)	
	91511094	2	SPACER	
	91141303	10	SPACER (G10-55A)	
	91141303	14	SPACER (G12-55A)	
	91033187	2	WEAR PAD, BOOM HYDRAULICS	
	1001105441	1	PIN	
	1001143692	1	PIN	
		Ref	ENGINE	
	70024315	1	SECONDARY FUEL FILTER, (if equipped for ULS)	
	70024156	1	PRIMARY FUEL FILTER, (if equipped for LS)	
	70024314	1	PRIMARY FUEL FILTER, (if equipped for ULS)	
	70020348	1	SECONDARY FUEL FILTER, (if equipped for LS)	
	70020358	1	OIL FILTER	
	70024175	1	PRIMARY AIR FILTER, (if equipped for ULS)	
	70023878	1	PRIMARY AIR FILTER, (if equipped for LS)	

SECTION 12 - RECOMMENDED SPARE PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001102657	1	LOCKING FUEL TANK CAP	
	70020350	1	DIPSTICK	
	1001122234	1	FAN	
	70024309	1	FAN BELT	
	70029919	1	FAN SPACER, (if equipped for LS)	
	Ref		DRIVE TRAIN	
	91563226	1	F-N-R SHIFTER	
	7028718	4	WHEEL END SEAL	
	91514111	4	WHEEL END BUSHING	
	7029300	2	WHEEL HUB SEAL	
	7026911	1	UNIVERSAL JOINT KIT	
	91474035	4	UNIVERSAL JOINT KIT	
	1319726	1	TRANSMISSION FILTER	
	Ref		HYDRAULICS	
	91513212	1	BOOM JOYSTICK ASSY	
	91404325	1	BOOM JOYSTICK HANDLE ASSY	
	1001125160	1	LIFT CYLINDER SEAL KIT (G10-55A)	
	1001121434	1	LIFT CYLINDER SEAL KIT (G12-55A)	
	1001122496	1	EXTEND/RETRACT CYLINDER SEAL KIT	
	70022093	1	TILT CYLINDER SEAL KIT (G10-55A)	
	70022098	1	TILT CYLINDER SEAL KIT (G12-55A)	
	70023986	1	COMPENSATING CYLINDER SEAL KIT (G10-55A)	
	70023991	1	COMPENSATING CYLINDER SEAL KIT (G12-55A)	
	70023943	1	FRAME LEVEL CYLINDER SEAL KIT	
	70023943	1	STABILIZER CYLINDER SEAL KIT	
	70023899	2	OUTRIGGER CYLINDER SEAL KIT	
	70024152	1	TANK FILTER KIT	
	1340021	1	BREATHER	
	70024153	1	SIGHT GAUGE	
	70022041	1	SIDE TILT CARRIAGE CYLINDER SEAL KIT	
	2915023	1	90, SWING CARRIAGE CYLINDER SEAL KIT	
	70021453	1	180, SWING CARRIAGE CYLINDER SEAL KIT	
	70021452	1	GRAPPLE BUCKET CYLINDER SEAL KIT	
	Ref		ELECTRICAL	
	8270621	1	BACKUP ALARM	
	10713707	1	HORN	
	1001121955	1	COOLANT LEVEL SENSOR, (if equipped for ULS)	
	1001101043	1	12V BATTERY	
	1001098762	1	12V BATTERY, (Arctic)	
	70024311	1	STARTER	
	1001128594	1	STARTER MOTOR, (Arctic, if equipped for ULS)	
	1001125786	1	STARTER MOTOR, (Arctic, if equipped for LS)	
	70024310	1	ALTERNATOR	
	70024313	1	THERMOSTAT	
	Ref		MISCELLANEOUS	
	80964051	1	CAB DOOR KEY	
	90214009	1	O-RING KIT	
	70000652		HYDRAULIC PRESSURE TEST KIT	
	70000101		DIGITAL HYDRAULIC PRESSURE TEST KIT	
	31200745	1	OPERATION AND SAFETY MANUAL	
	31200795	1	SERVICE MANUAL	

SECTION 12 - RECOMMENDED SPARE PARTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	70021975	Ref 1	SPECIAL TOOLS GAUGE, T17, DANA AXLE	

SECTION 12 - RECOMMENDED SPARE PARTS

PART NUMBER INDEX

SECTION 12 - RECOMMENDED SPARE PARTS

0100011....23, 29, 31, 34, 38, 42, 46, 49, 51, 53, 55, 57, 59, 71, 215, 261, 279, 281, 311, 321, 325, 327, 373, 404	0641808... 21, 31, 53, 55, 57, 59, 63, 321	0760612 123	1001090741.....277
0100019.....373	0641810..... 29, 33, 41	0760810 111	1001091118.....277
0100020.....215	0641812 290	0760812 247	1001091173.....277
0100093.....117	0641814 403, 407	0760820 247	1001091306.....309, 313
0140011.....409	0641816 45	0761214 111	1001091458.....15
0240156.....85	0641818 29, 31, 411	0781212 268	1001091746.....311
0274671.....57	0641826 313	0791404 383, 387	1001092391.....85
0274673.....59	0641832 335, 339	0791406 252	1001092481.....87
0274675.....53, 57	0642008 45	0791408 411	1001092482.....87
0274677.....55, 59	0642010 41	0791410 18	1001092877.....464
0440321.....373	0642032 67, 69, 71	0791504 120	1001092878.....464
0630407....252, 261, 268	064221033, 37, 403, 407, 409	0791506 120, 383, 387	1001093171.....89
0630457.....261	0642222 411	0791508 119, 120	1001093273.....85
0641405.....18, 87, 261	0651605... 31, 37, 41, 45, 49	0791606 383, 387	1001093377.....83, 85
0641406....273, 383, 387, 401	0651606... 29, 31, 33, 37, 41, 45, 49, 51	0791608 18, 253, 261	1001093465.....85
0641407.....403, 407	0651607... 29, 31, 33, 37, 41, 45, 49, 51	0791808 373	1001093526.....274
0641408....252, 263, 272, 279, 299, 394	0651610 31	0811510 119	1001093564.....391
0641412....290, 293, 307, 397	0651612 ... 29, 31, 49, 51	0811606 15, 18, 119, 120, 123, 125, 359, 383, 387	1001093641.....117
0641414.....314	0651614 29, 31	0811608 18, 119	1001093828.....263
0641415.....383, 387	0651616 33	0811610 15, 273, 359	1001094264.....411
0641424.....272, 305	0651618 33, 41, 45	0811612 117, 359	1001094330.....85
0641436.....253	0651620 37, 41, 45	0811616 119	1001094390.....411
0641505.....394	0651622 37, 45	0860520 87	1001094392.....411
0641506....277, 295, 383, 387	0651806 41	0903661 403, 407	1001094393.....411
0641507....127, 129, 272	0651807 38, 46	0903669 403	1001094523.....411
0641508....261, 279, 301, 303, 314	0651808 ... 33, 37, 41, 45	0930020 93	1001094824.....411
0641510.....261	0651810 38, 41, 45	09523572 123	1001094830.....85
0641511....309, 314, 317, 319	0651811 34	1001001016 361	1001095342.....403, 407
0641514....261, 295, 297, 394	0651812 ... 33, 37, 41, 49, 51	1001001186 397	1001095418.....77
0641518.....268	0651814 ... 33, 37, 41, 45, 49, 51	1001001211 21	1001095431.....293
0641520.....111	0651816 41, 45, 49	1001001213 281	1001095434.....295
0641524.....245	0651818 31, 45, 51	1001001422 117	1001095436.....295
0641528.....245	0651820 29, 31, 51	1001001477 311	1001095650.....247
0641532.....272	0651822 29, 31, 51	1001001478 311	1001095744.....239
0641605.....120, 272	0681618 272	1001001479 311	1001095810.....87
0641606.57, 59, 123, 281	0681810 71, 341	1001001480 311	1001096019.....87
0641607....120, 309, 313, 401	0681814 23	1001001481 311	1001096020.....87
0641608 49, 51, 117, 257, 277, 281, 321, 394	0682018 15	1001001482 311	1001096021.....87
0641610...18, 42, 45, 127, 129, 311	0682032 15	1001001524 311	1001096023.....87
0641612...42, 45, 71, 313, 321	0682036 111	1001001525 311	1001096024.....87
0641613.....272	0682214 57, 59	1001001568 371	1001096025.....87
0641614.....290, 353	0682216 325, 333	1001007056 375	1001096162.....87
0641617.....253	0682244 63, 321	1001080707 117	1001096369.....303
0641624.....311	0682444 133, 137	1001080996 321, 373	1001096386.....303
0641634.....21, 337	0682618 333	1001080998 119	1001096387.....303
0641638.....127, 129	0682652 253	1001081241 259	1001096388.....297
0641640.....15	0700610 252	1001081307 263	1001096389.....297
0641709.....117	0700812 111	1001081308 263	1001096390.....295
0641714.....321	0701010 215	1001081310 263	1001096393.....290
0641716.....133, 137	0701014 277	1001081311 263	1001096394.....293
0641807.....373	0701027 111	1001090033 311	1001096396.....301
	0701215 111, 290	1001090063 71	1001096404.....27
	0701216 111	1001090064 71	1001096708.....404
	0701617 111	1001090134 341	1001096709.....404
	0711015 215	1001090140 71	1001096728.....257
	0721006 404	1001090344 268, 272	1001097036.....307
	0731003 117	1001090459 399	1001097037.....470
	0741006 397	1001090460 399	1001097038.....309, 313, 470
	0741404 261	1001090461 399	1001097053.....215
	0741610 71	1001090469 411	1001097095.....15
		1001090509 443	1001097205.....89
		1001090522 403, 407	1001097803.....133, 137
		1001090580 403, 407	1001097804.....133
		1001090581 403	1001097810.....297
		1001090615 401, 404, 407	1001097924.....299

SECTION 12 - RECOMMENDED SPARE PARTS

1001097925.....	299	1001101668.....	268	1001113588.....	29	1001117073.....	421
1001097926.....	299	1001101669.....	268	1001113609.....	33	1001117079.....	443
1001097928.....	290	1001101956.....	71	1001113690.....	31	1001117103.....	453
1001097930.....	301	1001102185.....	305	1001113692.....	311	1001117104.....	453
1001097931.....	301	1001102378.....	71	1001113744B.....	27	1001117106.....	414, 418, 453
1001097932.....	301	1001102509.....	297	1001113745B.....	49	1001117111.....	414, 418
1001097933.....	301	1001102657.....	117, 471	1001114001B.....	45	1001117112.....	453
1001097992.....	133, 137	1001102813.....	87	1001114008B.....	51	1001117136.....	252
1001098042.....	257	1001102815.....	437	1001114138B.....	27	1001117305.....	256
1001098122.....	459	1001102931.....	117	1001114282.....	268	1001117306.....	256
1001098174.....	63	1001102933.....	117	1001114492.....	403	1001117652 ...	33, 37, 41, 45, 49, 51, 470
1001098179.....	309, 470	1001103069.....	291	1001114495.....	119	1001117653 ...	29, 31, 33, 37, 470
1001098180.....	309, 470	1001103182.....	348	1001114523.....	317	1001117660 ..	45, 51, 470
1001098181.....	313	1001103509.....	256	1001114524.....	317	1001118092.....	120
1001098218.....	63, 321	1001103553.....	261	1001114525.....	319	1001118245.....	383, 387
1001098220.....	331	1001103557.....	261	1001114526.....	319	1001118282.....	414, 427, 431
1001098233.....	63, 321	1001103637.....	87	1001114675.....	252	1001118384.....	443, 445, 447, 449
1001098344.....	257	1001103663.....	256	1001114803.....	120	1001119900.....	359
1001098382.....	63	1001103730.....	87	1001115135.....	465	1001120120.....	373
1001098409.....	331	1001103736.....	87	1001115138.....	465	1001120124.....	373
1001098425.....	313, 321	1001103956.....	465	1001115153.....	252	1001120130.....	373
1001098742.....	313	1001104477.....	371, 379	1001115175.....	465	1001120135.....	321, 373
1001098743.....	313	1001104685.....	268	1001115183.....	465	1001120163.....	375, 377
1001098744.....	313	1001104918.....	353	1001115190.....	465	1001120164.....	373, 375
1001098762.....	391, 471	1001104992.....	80	1001115198.....	465	1001120178.....	243
1001098769.....	27	1001105038.....	319	1001115238.....	401	1001120179.....	243
1001099113.....	71	1001105046.....	319	1001115508.....	215	1001120639.....	120
1001099115.....	71	1001105102.....	314	1001115528.....	421	1001120914.....	71
1001099163.....	399	1001105103.....	314	1001115536.....	465	1001120915.....	71
1001099251.....	119	1001105118.....	307	1001115540.....	465	1001120989.....	401
1001099276.....	404, 407	1001105119.....	307	1001115878.....	391	1001121031.....	15
1001099351.....	97	1001105120.....	305	1001115884.....	383, 387	1001121047.....	15
1001099378.....	399	1001105121.....	305	1001115999.....	290	1001121050.....	119
1001099602.....	133	1001105122.....	309	1001116011.....	290	1001121103.....	243
1001099662.....	27	1001105123.....	309	1001116033.....	59	1001121105.....	243
1001099663.....	27	1001105441.....	63, 470	1001116125.....	59	1001121109.....	243
1001099812.....	394	1001105613.....	355	1001116208.....	401	1001121290.....	37
1001099901.....	95	1001105638.....	117	1001116274.....	394	1001121309.....	111
1001099902.....	95	1001105639.....	117	1001116439.....	337	1001121332.....	18
1001100091.....	313	1001105643.....	117	1001116440.....	335	1001121337.....	18
1001100227.....	83	1001105886.....	391	1001116441.....	333	1001121404.....	120
1001100228.....	83	1001106614.....	253	1001116442.....	333	1001121417.....	325
1001100229.....	83	1001106688.....	399	1001116443.....	339	1001121418.....	325, 327
1001100278.....	268	1001106836.....	363	1001116727.....	424, 427, 439, 441	1001121425.....	325, 327
1001100279.....	268, 272	1001106849.....	268	1001116728.....	459	1001121427.....	325
1001100281.....	272	1001106866.....	252	1001116733.....	414, 427, 431, 443, 449	1001121428.....	325, 327
1001100291.....	394	1001107339.....	272	1001116745.....	459	1001121429.....	325, 327
1001100322.....	261	1001107340.....	272	1001116747.....	424, 425, 427	1001121430.....	325
1001100446.....	268, 272	1001107428.....	272	1001116748.....	421, 431	1001121434.....	325, 471
1001100447.....	268	1001107799.....	263	1001116751.....	414	1001121454.....	391
1001100770.....	272	1001107814.....	290	1001116810.....	418	1001121459.....	391
1001100773.....	272	1001108433.....	383, 387	1001116812.....	435	1001121460.....	391
1001100822.....	91	1001108668.....	102	1001116815.....	414, 418	1001121506.....	119
1001100823.....	91	1001108669.....	106	1001116816.....	437	1001121514.....	120
1001100824.....	91	1001108841.....	435	1001116821.....	418	1001121557.....	425, 427
1001100876.....	401	1001109053.....	465	1001116934.....	424	1001121869.....	123
1001100879.....	257	1001109536.....	215	1001116938.....	414, 418	1001121873.....	120
1001100880.....	257	1001110091.....	403	1001116950.....	414, 418	1001121874.....	120
1001100895.....	257	1001110704.....	77, 80	1001117018.....	443	1001121883.....	111
1001101043.....	471	1001111086.....	263	1001117021.....	407, 424, 459	1001121955.....	119, 471
1001101115.....	83	1001111112.....	263	1001117025.....	387, 449	1001121962.....	120
1001101116.....	83	1001111190.....	77	1001117026.....	459	1001122219.....	18
1001101216.....	268	1001112039.....	427	1001117058.....	443		
1001101259.....	272	1001112612.....	414, 418				
1001101595.....	325	1001113511.....	117				
1001101640.....	272	1001113528B.....	41				
1001101666.....	399						

SECTION 12 - RECOMMENDED SPARE PARTS

1001122234.....111, 471	1001128714.....127	1001134234.....383	1001140468.....272
1001122338.....119	1001128739.....123	1001134235.....383, 387	1001140694.....272
1001122453.....325, 327	1001128745.....123	1001134236.....383, 387	1001141077.....391
1001122483.....329	1001128746.....123	1001134413.....117	1001141211.....293
1001122484.....329	1001128901.....127	1001134453.....120	1001141212.....293
1001122491.....329	1001128945.....119	1001134456.....120	1001141400.....117
1001122494.....329	1001129277.....383, 387	1001134458.....120	1001141596.....391
1001122495.....329	1001129352.....55	1001134470.....383, 387	1001141892.....21
1001122496.....329, 471	1001129358.....18	1001134516.....120	1001141965.....383, 387
1001122505.....329	1001129459.....133	1001135348.....383, 388	1001142258.....21
1001122566.....120	1001129467.....321	1001135349.....383, 387	1001142350.....272
1001122608.....293	1001129636.....18	1001135771.....464, 467	1001142560.....247
1001123013.....329	1001129637.....18	1001135773.....464, 467	1001142563.....247
1001123014.....329	1001129638.....18	1001135774.....464, 467	1001142789.....63
1001123015.....329	1001129639.....18	1001135775.....464, 467	1001142790.....73
1001123654.....15	1001129741.....127	1001136077.....115	1001142892.....137
1001125027.....414	1001129785.....127, 129	1001136089.....15	1001143377.....383, 387
1001125119.....290	1001129787.....127, 129	1001136090.....111	1001143397.....391
1001125128.....290	1001129855.....120	1001136369.....141	1001143398.....391
1001125137.....325, 327, 329	1001130046.....120	1001136370.....175	1001143633.....21
1001125154.....325	1001130057.....119	1001136433.....394	1001143653.....15
1001125155.....325, 327	1001130065.....293	1001136630.....290	1001143654.....274
1001125158.....325	1001130079.....120	1001136631.....290	1001143692.....63, 470
1001125159.....325, 327	1001130098.....111	1001136655.....117	1001143724.....137
1001125160.....325, 471	1001130125.....15	1001136887.....119	1001144101.....18
1001125246.....119	1001130127.....293	1001136919.....111	1001144114.....18
1001125382.....441	1001130139.....127	1001136940.....119	1001144147.....414, 418
1001125384.....445	1001130159.....383	1001136975.....117	1001144724.....290
1001125385.....439	1001130286.....119	1001136981.....359	1001144782.....391
1001125387.....465	1001130288.....290	1001136984.....125	1001144790.....391
1001125404.....290	1001130311.....252	1001137031.....125	1001144801.....391
1001125410.....243	1001130312.....119	1001137042.....125	1001144802.....119
1001125491.....15	1001130323.....465	1001137044.....125	1001144803.....391
1001125786.....391, 471	1001130370.....119	1001137045.....125	1001145048.....129
1001125962.....215	1001130378.....119	1001137231.....297	1001145049.....129
1001126009.....414, 418	1001130440.....290	1001137239.....111	1001145050.....129
1001126208.....414	1001130441.....252	1001137259.....293	1001145301.....383, 387
1001126285.....397	1001130442.....252, 268	1001137280.....293	1001145386.....373
1001126589.....279	1001130443.....125	1001137281.....293	1001145498.....465
1001126834.....394	1001130462.....252, 272	1001137512.....85	1001145543.....290
1001127006.....321, 371	1001130675.....123	1001137579.....119	1001145702.....253
1001127008.....321	1001130679.....290	1001137930.....125	1001145753.....253
1001127009.....321	1001130707.....290	1001138033.....125	1001145754.....253
1001127153.....119	1001130776.....117	1001138049.....125	1001146009.....407
1001127353.....321	1001130780.....117	1001138131.....129	1001146084.....69
1001127366.....321	1001130906.....127	1001138132.....129	1001146086.....69
1001127386.....424	1001130914.....253	1001138136.....129	1001146088.....69
1001127488.....383, 387	1001130915.....253	1001138137.....129	1001146159.....69
1001127519.....387	1001130943.....127	1001138226.....117	1001146160.....69
1001127699.....383, 387	1001130957.....391	1001138258.....120	1001146217.....272
1001127700.....383, 387	1001131022.....111	1001138313.....120	1001146218.....272
1001127748.....383, 387	1001131130.....261	1001138348.....119	1001146367.....18
1001127756.....383, 387	1001131147.....18	1001138490.....119	1001146371.....18
1001127962.....333	1001131247.....18	1001138561.....125	1001146568.....119
1001128110.....359	1001131271.....465	1001138788.....268	1001146569.....119
1001128128.....427, 431, 449	1001131745.....465	1001138944.....273	1001146680.....137
1001128144.....119	1001131818.....272	1001138945.....273	1001147450.....120
1001128248.....15	1001131891.....453	1001139038.....111	1001148177.....252
1001128341.....119	1001131966.....414	1001139081.....290	1001148427.....401
1001128363.....127	1001132514.....67	1001139139.....268	1001148529.....137
1001128364.....127, 129	1001132796.....15	1001139249.....418	1001148837.....117
1001128390.....18	1001133072.....71	1001139459.....175	1001148847.....117
1001128428.....113	1001133534.....117	1001139578.....465	1001148860.....401
1001128594.....391, 471	1001133877.....120	1001139703.....272	1001148991.....383, 387
1001128602.....127	1001134231.....383, 388	1001139873.....387	1001148992.....383, 387
	1001134232.....383, 387	1001139927.....263	1001149227.....120
	1001134233.....383, 388	1001140233.....431	1001149344.....117

SECTION 12 - RECOMMENDED SPARE PARTS

1001149712.....	414, 418	1001163291.....	464	1170024.....	67	1319684.....	237
1001149756.....	120	1001163300.....	464	1170054.....	71	1319685.....	237
1001149909.....	401	1001163304.....	464	1170057.....	71	1319686.....	237
1001150157.....	465	1001163321.....	465	1316794.....	80	1319687.....	237
1001150299.....	15	1001163323.....	465	1319229.....	217	1319688.....	237
1001150364.....	117	1001163355.....	465	1319436.....	241	1319689.....	237
1001150519.....	115	1001163414.....	343	1319558.....	217	1319693.....	237
1001150520.....	115	1001163420.....	465	1319563.....	217	1319694.....	237
1001150521.....	113	1001163422.....	465	1319571.....	219, 233, 241	1319719.....	239
1001150522.....	113	1001163541.....	327	1319573.....	219, 241	1319726... 113, 115, 239,	
1001151101.....	243	1001163542.....	329	1319576.....	233	471	
1001151102.....	243	1001163543.....	327	1319578.....	241	1320037.....	125
1001151108.....	243	1001163565.....	325, 327	1319581.....	219, 239	1320136.....	263, 409
1001151561.....	69	1001163566.....	329	1319585.....	217, 219, 239	1320263....	403, 407, 411
1001151643.....	399	1001163567.....	325, 327	1319590.....	219	1320748.....	241
1001151847.....	399	1001163568.....	327	1319591.....	225	1320754.....	241
1001152220.....	409	1001163569.....	329	1319593....	221, 223, 225,	1320755.....	241
1001152268.....	325	1001163570.....	327	227, 229, 231		1321265.....	237
1001152269.....	333	1001163574.....	464, 467	1319594....	221, 223, 225,	1321320.....	273
1001152271.....	331	1001163578.....	464, 467	227, 229, 231		1321716.....	273
1001152272.....	329	1001163729.....	383, 387	1319595....	221, 223, 225,	1340021... 113, 115, 359,	
1001152273.....	335	1001165142.....	319	227, 231		471	
1001152274.....	339	1001165143.....	317	1319596....	225, 227, 231	1360292.....	57
1001152278.....	325	1001165212.....	309, 313	1319600....	221, 223, 225,	1360293.....	57
1001152279.....	329	1001165216.....	314	227, 229, 231		1360296.....	53, 57, 60
1001152295.....	325	1001165218.....	314	1319601....	221, 223, 225,	1360297.....	53, 57, 60
1001152296.....	333	1001165230.....	309	227, 229, 231		1360300.....	55, 59
1001152298.....	331	1001165578.....	253	1319602....	221, 223, 225,	1360301.....	55, 59
1001152299.....	325	1001165579.....	253	227, 229, 231		1380158.....	272
1001152326.....	399	1001167902.....	325, 327	1319603....	221, 223, 225,	14403190.....	263
1001152415.....	243	1001172274.....	325, 327	227, 229, 231		14403364.....	134, 138
1001152416.....	243	1001172288.....	325, 327	1319604....	221, 223, 225,	14404173..	257, 403, 407
1001152430.....	243	1001175733.....	459	227, 229, 231		14404793.....	311
1001152514.....	399	1001176342.....	311	1319606....	225, 227, 231	1671313.....	117
1001152538.....	409	1001176515.....	99	1319607.....	225	1684538.....	331
1001152569.....	465	1001179605.....	143	1319608.....	225, 233	1684539.....	331
1001153084.....	409, 459	1001179607.....	177	1319614.....	227	1701509.....	87
1001154055.....	247	1001182358.....	409	1319615....	221, 223, 227,	1701640.....	464
1001155219.....	383, 388	1001182662.....	409	231		1702300.....	465
1001156272.....	261	1001182934.....	113	1319617.....	221, 223	1702631.....	465
1001157029.....	309	1001190037.....	424, 425	1319618.....	221, 223	1702773.....	87
1001157030.....	313	1001192401.....	425	1319619.....	229	1704277.....	87
1001158178.....	394	1001195423.....	455	1319620.....	221, 223	1704885.....	87, 465
1001158435.....	394	1001195424.....	457	1319621.....	221, 223	1706098.....	464
1001158896.....	447	1001224062.....	449	1319622.....	221, 223	1706185.....	467
1001159129.....	120	1001230931.....	431	1319623.....	221, 223	1706186.....	464
1001159949.....	253	1060379.....	87	1319624.....	221, 223	1706187.....	464
1001160071.....	465	1060626.....	391	1319625.....	221, 223	1706281.....	464
1001160072.....	465	10700683.....	373	1319626.....	221, 223	1706282.....	467
1001160551.....	247	10700689.....	373	1319627.....	221, 223	1706283.....	465
1001160787.....	465	10701277.....	359	1319628.....	221, 223	1706284.....	464
1001160889.....	253	10705034.....	75	1319629.....	221, 223	1706285.....	464
1001160912.....	465	10713707.....	394, 471	1319630.....	221, 223	1706287.....	464
1001160916.....	465	10718991.....	411	1319631.....	221, 223	1706288.....	464
1001160945.....	465	10718992.....	411	1319632.....	221, 223	1706289.....	464
1001161806.....	293	10725554 ..	151, 153, 189	1319635.....	231	1706292.....	467
1001162757.....	407	10731709 ..	219, 237, 239	1319636....	221, 223, 231	1706293.....	464
1001162758.....	407	10731744.....	219	1319638.....	221, 223	1706296.....	464
1001163174.....	464	10731761.....	235	1319641.....	219	1706298.....	467
1001163206.....	467	10731845 ..	225, 227, 231	1319646.....	219	1706299.....	464
1001163210.....	464	10731959.....	241	1319647.....	241	1706300.....	464
1001163212.....	464	10732071.....	237	1319648.....	241	1706301.....	464
1001163222.....	464	10732072.....	237	1319649.....	241	1706302.....	467
1001163223.....	467	10732095.....	235	1319652.....	237	1706303.....	464
1001163273.....	464	10791807.....	353	1319661.....	237	1706304.....	464
1001163276.....	464	114017.....	421	1319670....	219, 237, 239	1706306.....	464
1001163285.....	464	1170021.....	67	1319683.....	237	1706767.....	464

SECTION 12 - RECOMMENDED SPARE PARTS

1706768.....464	2220218.....117	3311801 29, 31, 394, 403, 407	4460469.....424
1706850.....464	2220240.....359	3311802.....394	4460475.....424, 435, 443
1706851.....465	2220282.....268	3311805.....373, 411	4460496.....414, 418
1706892.....87	2220346.....394	3313001.....55, 59	4460497.....414, 418
2080040.....87	2220415.....77	3313002.....55, 59	4460500.....435
2080063.....272	2220473.....77	3421453.....87	4460502.....424
2110406....290, 299, 301, 303, 313, 314	2220578.....359	3423227.....335, 339	4460503.....431
2110606 71, 75, 301, 317, 319, 359	2220609.....77	3423242.....67, 69, 71	4460508.....404, 427
2110608.....293	2220628.....77	3423247.....27	4460509.....418, 424
2110808.....71, 295, 359	2220767.....120	3423275.....67, 69, 71	4460518.....414, 418
2110810.....309, 371	2220883....325, 327, 329	3423276....67, 69, 71, 77	4460590.....414
2110812....309, 314, 317, 319	2220888.....325, 327	3423301.....313	4460742....424, 427, 428
2111010.....371	2221244.....277, 293	3423307.....71, 341	4460743.....433
2111212.....305, 307	2221257.....277	3520072.....87	4460746....424, 425, 427, 449
2111616.....290, 293	2340037.....85	3520176.....18, 245	4460790.....427
2111620.....359	2340038.....85	3575947.....111	4460850....433, 439, 441
2130404.....281, 293	2340039.....85	3740080....427, 431, 449	4460851.....431, 443
2130406....299, 301, 303, 313	2340045.....85	3760170.....87	4460884....425, 431, 437
2130606....75, 290, 291, 297, 303, 314	2340046.....85	3790228.....290	4460891....414, 418, 425, 428, 441, 445, 449
2130608.....75	2401305.....195	3820020.....87	4460897.....403, 407
2130808.....391	24921332.....127, 129	3841203.....71, 341	4460899.....411
2130810.....290, 309	2580040.....391	3841287.....325, 333	4460930.....427, 431
2131010.....309	2600281.....87	3841356.....333	4460931....449, 455, 457
2131210.....291	2716143.....107	3900232.....311	4460932.....455, 457
2131212.....305	2717160.....75	3900316.....119	4460933....414, 418, 428
2131616.....120, 291	2717161.....75	3931012.....409	4460934.....443
2144605.....277, 297	2717162.....75	3931412.....401	4460941....414, 418, 424, 449
2150404.....371, 375	2717283.....75	3931420.....401	4460942....414, 418, 441, 445, 447, 449
2150406.....293	2717287.....77	3931648.....290	4460943.....414, 418
2150606.....291	2752661.....359	3931664.....325, 327	4460944....414, 418, 435, 437
2150808....281, 291, 293	2820035.....404, 407	3931672.....21, 337	4460945.....435
2151620.....293	2900770.....341	3931828.....37	4460955.....421
2160001.....325, 327	2915023.....348, 471	3941506.....411	4460970.....397, 421
2160002....27, 53, 55, 57, 59, 63, 313, 321	2940074.....87	3969073.....181	4461017.....404
2170110.....371	2960243.....201	4031918.....321	4461070.....418
2170112.....305, 307	3020039.....277	4060918.....15	4461095.....418
2170206....291, 293, 303	3020043....325, 327, 329	4071133.....257	4461157.....424, 443
2170210.....359	31200160.....87	4100181.....465	4461254.....411
2170212.....120, 291	31200386.....87	4105262.....467	4520481.....243
2170306.....359	31200387.....87	4110422.....95, 97	4520482.....243
2170404.....291	31200388.....87	4110473.....75	4520519.....243
2170406.....301	31200745.....471	4240018....117, 383, 387	4520527.....243
2170410.....293	31200795.....471	4240032.....401	4640438.....341
2170506.....299	3251813.....465	4240033....272, 397, 409	4641501.....75
2170516.....120	3271601.....257	4240099.....401	4641502.....75
2170706.....299, 301	3272001.....111	4420060.....257	4711000.....313, 411
2170708.....314, 391	3290601.....383, 387	4460247.....414, 418	4711400....87, 252, 261, 263, 268, 272, 279, 314, 383, 387, 394, 401, 403, 407
2170716.....120	3290605.....18	4460312.....414, 418	4711500....245, 261, 273, 277, 279, 295, 301, 303
2170806.....297, 301	3290801.....383, 387	4460419 ... 397, 428, 435, 443	4711600....27, 117, 120, 123, 127, 129, 257, 281, 290, 311, 353, 394
2171110.....311	3290807.....247	4460457 ... 424, 427, 428, 431, 439	4711700....117, 133, 137, 321
2171208.....309, 313	3291001.....272	4460458 ... 427, 428, 439, 449, 459	4711800 29, 31, 373, 403, 407
2171216.....290	3300143.....21, 337	4460459.....433	4712200.....403, 407
2172106....71, 277, 297, 359	3300240.....67, 69, 71	4460461.....427	4740003.....63, 321
2172108....309, 313, 371	3300246.....120	4460464 ... 397, 403, 404, 407, 424, 425, 427, 431, 455, 457	4740274.....120
2172116.....293	3300492....18, 119, 272	4460465 ... 414, 418, 421, 424, 425, 427, 428, 431, 435, 437, 445	
2172408.....391	3311001.....404, 411	4460466 ... 397, 414, 418, 424, 425, 427, 428, 431, 435, 437, 445, 447, 449, 455, 457	
2172416.....120	3311005.....397		
2180467.....119	3311401 ... 397, 403, 407		
2180849.....313, 321	3311405 .18, 87, 272, 401		
2200221.....335, 339	3311408.....411		
	3311505.....261		
	3311508 ... 301, 303, 383, 387, 391		
	3311601 .42, 45, 290, 353		
	3311701.....321		
	3311705.....133, 137		

SECTION 12 - RECOMMENDED SPARE PARTS

4740553	263	70002594	355	70021349	97	70022005	353
4751000	404	70002595	355	70021358	93	70022006	353
4751200	397	70002596	356	70021359	93	70022007	353
4751400	18, 272, 299	70002598	355	70021360	93	70022008	353
4751500	245, 261, 272	70002599	356	70021361	93	70022009	353
4751600	18, 272, 309, 311, 313, 359, 401	70003849	343	70021362	93	70022010	353
4751800	411	70020002	80	70021364	351	70022011	353
4752200	409, 411	70020004	80	70021365	351	70022012	353
4761000	404, 411	70020015	80	70021366	93	70022013	353
4761400 ...	252, 268, 272, 314, 383, 387, 403, 407	70020017	80	70021367	80, 93, 351	70022014	353
4761500 ...	272, 295, 314, 394	70020025	80	70021382	80	70022015	353
4761600 ...	18, 45, 49, 51, 57, 59, 257, 272, 277, 281, 290, 309, 311, 313, 353, 359, 394	70020026	80	70021387	93	70022016	353
4761700	117	70020027	80	70021391	93	70022017	353
4761800 ...	21, 29, 31, 33, 37, 41, 45, 53, 55, 57, 59, 257, 290, 313, 403, 407	70020028	80	70021392	93	70022018	353
4762000	373	70020029	80	70021393	351	70022019	353
4771500	261	70020036	241	70021399	351	70022020	353
4791400	263	70020348	115, 470	70021415	97	70022021	353
4811600	117	70020350 ..	113, 115, 471	70021429	80	70022022	353
4811700	18, 383, 387	70020351	113, 115	70021440	99, 348, 351	70022023	353
4811702	123	70020358 ..	113, 115, 470	70021441	348	70022024	353
4811900	387	70020370	337	70021442	348	70022025	353
4811902	247	70020375 ..	331, 333, 337	70021443	348	70022028	97
4812000	215	70020428	348	70021444	351	70022038	341
4812100	111	70020493	241	70021446	351	70022039	341
4812300	111	70020528	263	70021447	351	70022040	341
4831900	111	70020555	89	70021448	351	70022041	341, 471
4832000	277	70020562	93	70021451	351	70022042	341
4832100	111	70020632	256	70021452	351, 471	70022043	341
4846452	87	70020640	273	70021453	348, 471	70022044	348
4891500	127, 129	70020643	273	70021464	351	70022045	348
4891600 ...	29, 31, 33, 37, 41, 45, 49, 51, 272	70020644	273	70021465	351	70022046	348
4891800	71, 290	70020645	273	70021466	351	70022075 ..	221, 223, 225, 227, 229, 231
4892000	15, 42, 45	70020646	273	70021526	233	70022089	331
4892200	33, 37, 57, 59	70020647	273	70021531	379	70022090	331
4892400	59, 133, 137	70020653	256	70021601	179	70022091	331
4923452	117	70020659	363	70021602	191	70022092	331
6604662	77	70020660	363	70021603 ...	155, 163, 191	70022093	331, 471
70000101	471	70020661	363	70021604	191	70022094	331
70000652	471	70020662	363	70021606 ...	197, 199, 201	70022095	331
70000656	237	70020663	363	70021607 ...	197, 199, 201	70022096	331
70001955	355	70020665	363	70021609	197, 199	70022098	331, 471
70001956	355	70020666	363	70021610	197, 199	70022140 ..	151, 153, 185, 187, 189
70002133	355	70020667	363	70021611	197, 199	70022142	151, 185
70002219	343	70020668	363	70021612	197, 199	70022224	435
70002224	343	70020669	363	70021613 ...	197, 199, 201	70022287	355
70002578	355	70020670	363	70021614 ...	145, 179, 181	70022288	355
70002579	355	70020671	363	70021803	113	70022527	93
70002580	355	70020672	363	70021812	348	70022552	273
70002581	355	70020673	363	70021826	418	70022553	273
70002582	355	70020674	363	70021920	219	70022555	273
70002583	355	70020675	363	70021921	97	70022556	273
70002585	355	70020676	363	70021935	97	70022557	273
70002588	355	70020677	363	70021944	191	70022558	273
70002590	355	70020678	363	70021975	472	70022691	437
70002591	355	70020679	363	70021976	348	70022741	421
70002592	355	70020680	363	70021977	97	70022773 ..	145, 147, 171
70002593	355	70020681	363	70021978	97	70022790	237
		70020682	363	70021979	97	70022805	273
		70020764	379	70021980	93	70022814	193, 195
		70020870	431	70021981	93	70022861	335, 339
		70021177 ..	145, 149, 179, 181, 183, 193, 195	70021982	93	70022876	273
		70021227	229	70021983	81	70022877	273
		70021228	229	70022000	353	70022879	273
		70021268	229	70022001	353	70022880	273
		70021269	229	70022002	353	70022881	273
		70021342	93, 97	70022003	353		
				70022004	353		

SECTION 12 - RECOMMENDED SPARE PARTS

70022882.....	273	70022993.....	102, 106	70023575.....	337	70024209.....	165, 169
70022883.....	273	70022994.....	102, 106	70023800.....	241	70024210... 165, 169, 201	
70022884.....	273	70022995.....	102, 106	70023801.....	241	70024211.....	165
70022885.....	273	70022996.....	108	70023829.....	159	70024212.....	165
70022886.....	273	70022997.....	73, 107	70023878 .. 115, 125, 470		70024213.....	165, 169
70022888.....	273	70022998.....	103, 107	70023879.....	115, 125	70024214.....	165, 169
70022889.....	273	70022999.....	107	70023892.....	337	70024215.....	165, 169
70022890.....	273	70023000.....	107, 108	70023893.....	337	70024216... 197, 199, 201	
70022891.....	273	70023001.....	107	70023894.....	337	70024262.....	343
70022931.....	102, 106	70023002.....	107	70023895.....	337	70024270.....	123
70022932.....	102, 106	70023003.....	102, 106	70023896 . 333, 335, 337,		70024271.....	123
70022933.....	106	70023004.....	102, 106	339		70024284.....	113
70022934.....	102, 106	70023005.....	103, 108	70023898.....	337	70024306.....	85
70022935.....	103, 107	70023006.....	103, 108	70023899.....	337, 471	70024307.....	85
70022936.....	102, 107	70023007.....	103, 108	70023925.....	103, 108	70024309... 113, 115, 471	
70022937.....	103, 107	70023008.....	102, 106	70023934.....	335	70024310... 113, 115, 471	
70022938.....	107	70023009.....	102, 106	70023935.....	335	70024311... 113, 115, 471	
70022939.....	103, 107	70023010.....	102, 106	70023936.....	335	70024312.....	113, 115
70022940.....	107	70023011.....	108	70023937.....	335	70024313... 113, 115, 471	
70022941.....	107	70023013.....	108	70023939.....	339	70024314.....	113, 470
70022942.....	103, 107	70023014.....	102, 106	70023940.....	335, 339	70024315.....	113, 470
70022943.....	107	70023015.....	103, 108	70023941.....	339	70024318.....	123
70022944.....	107	70023016 .. 102, 106, 107		70023943 .. 335, 339, 471		70024319.....	279
70022945.....	107	70023037.....	363	70023963.....	339	70024330.....	331
70022946.....	103, 107	70023038.....	364	70023965.....	331	70024386.....	273
70022947.....	107	70023039.....	363	70023979.....	333	70024535.....	73
70022948.....	107	70023108.....	273	70023980.....	333	70024536.....	73
70022949.....	103, 107	70023139.....	265	70023981.....	333	70024537.....	73
70022950.....	103, 107	70023258 .. 145, 149, 179		70023982.....	333	70024538.....	73
70022951.....	107	70023325.....	279	70023983.....	333	70024539.....	345
70022952.....	103	70023337.....	120	70023984.....	333	70024540.....	73
70022957.....	102, 106	70023349.....	355	70023985.....	333	70024541.....	73
70022958.....	107	70023350.....	355	70023986.....	333, 471	70024542.....	73
70022959.....	108	70023351.....	355	70023987.....	333	70024543.....	73
70022960.....	102, 106	70023352.....	355	70023988.....	333	70024544.....	73
70022961.....	107	70023353.....	355	70023989.....	333	70024545.....	73
70022962.....	107	70023354.....	355	70023990.....	333	70024546.....	73
70022963.....	108	70023355.....	355	70023991.....	333, 471	70024547.....	345
70022964.....	108	70023356.....	355	70023992.....	367	70024548.....	345
70022965.....	107	70023357.....	355	70024001.....	256	70024550.....	73
70022966.....	107	70023358.....	355	70024002.....	341	70024551.....	73
70022967.....	107	70023359.....	355	70024003.....	331	70024552.....	73
70022968.....	108	70023360.....	355	70024020.....	343	70024553.....	73
70022969.....	102, 106	70023361.....	355	70024062.....	99	70024554.....	73
70022970.....	102, 106	70023362.....	355	70024109.....	120	70024555.....	73
70022971.....	107	70023363.....	355	70024110.....	120	70024578.....	414
70022972.....	107	70023364.....	355	70024111.....	120	70024670.....	145, 149
70022973.....	107	70023365.....	355	70024112.....	120	70024841.....	123
70022974.....	107	70023366.....	355	70024113.....	120	70024843.....	383, 397
70022975.....	107	70023367.....	355	70024114.....	120	70024849.....	169
70022976.....	107	70023404.....	219	70024115.....	120	70025335.....	181, 183
70022977.....	107	70023474.....	241	70024116.....	120	70025336.....	187, 189
70022978.....	107	70023475.....	241	70024123.....	73	70025337.....	187, 207
70022979.....	107	70023476.....	241	70024146 . 156, 163, 191,		70025338.....	187, 207
70022980.....	103, 107	70023487.....	185	193, 195, 209		70025339... 151, 187, 207	
70022981.....	108	70023488.....	185	70024147 . 155, 191, 193,		70025340.....	187
70022982.....	107	70023489 .. 185, 187, 207		209		70025341.....	193, 195
70022983.....	108	70023490 . 151, 185, 187,		70024152 . 113, 115, 359,		70025342.....	193
70022984.....	102, 106	207		471		70025345.....	193
70022985.....	102, 106	70023491 . 151, 185, 187,		70024153.....	359, 471	70025346.....	193
70022986.....	108	207		70024156.....	115, 470	70025480.....	263
70022987.....	102, 106	70023492.....	185	70024175 .. 113, 123, 470		70025562.....	163, 195
70022988.....	107	70023493 .. 185, 187, 207		70024176.....	113, 123	70025606.....	343
70022989.....	108	70023494 . 151, 153, 185,		70024203.....	145	70025856.....	151
70022990.....	103, 107	187, 189		70024204.....	151	70025857.....	155
70022991.....	107	70023496.....	151	70024206.....	155	70025886.....	151
70022992.....	102, 106	70023502.....	241	70024207.....	155, 163	70025959.....	343

SECTION 12 - RECOMMENDED SPARE PARTS

70025975	339	7026425	435	7026763.....	227	7029300 ...	155, 159, 191,
70025976	333	7026429	433	7026764.....	229	193, 471	
70026002	163, 195	7026430	433	7026765.....	229	7029302	147
70026030	189, 207	7026431	433	7026766.....	229	7029303 ...	145, 147, 173,
70026056	343	7026437	437	7026769.....	229, 233, 241	179	
70026057	343	7026438	437	7026770.....	231	7029304 ...	145, 147, 173,
70026058	343	7026439 ...	428, 445, 447	7026771.....	233	179	
70026059	343	7026440	399	7026772.....	233	7029305 ...	145, 147, 173,
70026060	343	7026477	281	7026773.....	233	179	
70026061	343	7026478	281	7026774.....	233	7029306 ...	145, 147, 179
70026062	343	7026481	279	7026775.....	233	7029307 ...	145, 147, 171,
70026063	155, 163	7026486	147	7026776.....	235	179, 183	
70026066	195	7026487 ...	145, 147, 149,	7026777.....	235	7029309	159
70026067 ..	155, 159, 163	165, 167, 169, 179		7026778.....	235	7029310	159, 191
70026073	155, 163	7026490 ...	145, 147, 171,	7026779.....	235	7029311	159
70026211	377	179, 181, 203		7026780.....	235	7029312 ...	155, 159, 163,
70026212	377	7026491	151, 185	7026781.....	235	191	
70026213	377	7026492	151, 185	7026782.....	235	7029313 ...	155, 159, 163,
70026214	377	7026495	151, 153	7026783.....	235	191	
70026215	377	7026496	159	7026784.....	235	7029317 ...	155, 159, 191,
70026238	163, 195	7026499 ...	155, 159, 163,	7026785.....	237	193, 211	
70026260	195	191		7026786.....	237	7029417	239
70026261	195	7026577	241	7026787.....	237	7029520	89
70026348	367	7026578	241	7026788.....	237	7029521	89
70026699	99	7026712	167	7026789.....	237	7029532	225, 227
70026747	99, 201	7026713 ...	165, 167, 169	7026790.....	237	7029533	225, 227
70026748	201	7026714	167	7026791.....	239	7029692	93, 97
70026753	171, 203	7026715	167	7026792.....	219, 239	7029703	80
70026754	169	7026716	165, 167	7026793.....	239	7029714	93
70026755	169	7026717	165, 167	7026794.....	219, 239	7029732	159
70026756	169	7026718 ...	165, 167, 169	7026798.....	265	7029734 ...	165, 167, 169,
70026766	153	7026719	165, 167	7026799.....	265	197, 199, 201	
70026767	163	7026720	165, 167	7026900.....	265	7029735 ...	165, 167, 169,
70026768	163	7026721	167	7026901.....	265	197, 199, 201	
70026769	169	7026722	167	7026902.....	265	7029743 ...	155, 159, 163,
70026944	99	7026723	167	7026904.....	265	191, 193, 195, 211	
70026946	99	7026724	167	7026905.....	265	7029746 ...	155, 159, 191
70026948	99	7026725	167	7026906.....	265	7029747 ...	156, 159, 191
70026949	99	7026728	185	7026909.....	439	7029760	341
70027022	169	7026739	285	7026910.....	424	7029771	443
70029530	235	7026740	285	7026911.....	133, 471	7029789	165, 169
70029540	235	7026741	285	7026938.....	335	7029849 ...	221, 223, 225,
70029541	235	7026742	285	7026998.....	367	227, 229, 231	
70029542	235	7026743	285	7026999.....	367	7029850 ...	221, 223, 225,
70029543	235	7026744	217	7027100.....	367	227, 229, 231	
70029919	115, 471	7026745	217	7027270.....	241	7029851 ...	221, 223, 225,
70030365	155	7026746	217	7027271.....	241	227, 229, 231	
7007207	355	7026747	217	7027272.....	241	7029852 ...	221, 223, 225,
7007415	355	7026748	217	7027273.....	241	227, 229, 231	
7007426	355	7026749	217	7028714.....	193, 195	7029854	256
7007427	355	7026750	219	7028715.....	193, 195	7029855	256
7007429	355	7026751	219	7028716.....	155, 159, 163,	7029860	263
7007446	355	7026752	219	191, 193, 195		7029915	361
7012773	361	7026753	219	7028718.....	159, 191, 193,	7029916	361
7016388	411	7026754	219	471		7029917	361
7018300	367	7026755	219	7028733.....	160, 193, 195	7029995	348
7021275	355	7026756	219	7028939.....	256	7029996	80
7022340	355	7026757	221	7029127.....	145, 147, 171,	7029997	80
7023962	355	7026758 ...	221, 223, 225,	179, 203		7057141	119
7023964	355	227, 229, 231		7029267.....	235	7062922	77
7024574	348	7026759 ...	221, 223, 225,	7029288.....	181, 183	7110702	77
7026022	367	227, 229, 231		7029290.....	145, 147, 179,	7110712	348
7026408	431, 447	7026760 ...	221, 223, 225,	181, 213		7110722	348
7026413	425	227, 229, 231		7029291.....	145, 147, 179,	7112642	83
7026414	425, 427	7026761 ...	221, 223, 225,	181		7114941	83
7026415	424	227, 229, 231		7029292.....	181, 205, 213	7139914	133, 137
7026419	425	7026762	223	7029293.....	147	7139918	75

SECTION 12 - RECOMMENDED SPARE PARTS

71492152.....268	80204051 . 151, 153, 187, 189	80364023 256	80983168.....411
7150580.....133, 137	80204052 . 151, 153, 185, 187, 189	80364030 256	82033995.....268
72088049.....49, 51	80204060 .. 165, 167, 169	80364037 256	82033997.....263
7300435.....111	80204065 . 155, 163, 191, 193	80364079 259	8205655.....348
7301295.....75	80204071 . 155, 159, 163, 191, 193, 195	80364095 283	8220050.....411
7301408.....75	80204076 . 155, 159, 163, 191, 193, 195	8036433 133, 137	8220081.....441, 443
7301579.....75	80204108 .. 165, 167, 169	8036508 353	8220089.....427, 428, 439
77101143.....133, 137	80204115 167	8036528 235, 237	8220101.....414
77133052..290, 293, 305, 307	80204116 167	8036529 235	8220124.....414
77133053...293, 305, 307	80204117 . 145, 147, 165, 167, 169, 179, 181, 197, 199, 201, 213	8036629 333, 337	8220164.....414, 418
77133073.....290, 305	80204121 167	8036654 256	8220524.....435
77133089.....291	80204123 167	8036678 263	8220525.....435, 445, 447
77133134.....274	80204131 167	8036750 337	8220890.....407, 424
77133136.....297, 394	80204143 . 145, 147, 171, 179, 181, 203	8036847 219	8220904.....449
77133137..268, 274, 295, 297, 394	80204144 . 145, 147, 149, 171, 179, 181, 203	8037140 377	8223073.....411
77133139.....311	80204166 167	80383231 268	8225122.....383, 387
77133140..309, 311, 314, 317, 319	80204281 . 165, 167, 169, 197, 199	80384187 259	8270621.....394, 471
77133168..309, 313, 317, 319	80214120 . 155, 159, 191, 193, 195	80384189 259	8275247.....129
77133177.....311	80241137 15	80384191 259	8278020.....119
77133279...268, 274, 295	80264031 256	80384192 259	8303626.....83
77133306.....295	80264035 256	80384203 263	8303634.....75, 77, 348
77133389...311, 319, 394	80264066 259	80384205 256	8303658.....75
77133390..295, 311, 319, 394	80264138 283	80384207 256	8303715.....77
77143003.....257	80264139 283	80384218 256	8305012.....83
77143006.....120	80304227 229	80434249 367	8305624.....75, 394
77323029.....272, 295	80304394 .. 219, 233, 239	80463058 447	8305626.....391
77363228.....437	80304405 217	80484081 425, 427	8305630.....274
77363229...394, 431, 447	80333162 133, 137	80484084 425, 427	8305643.....75, 77, 348
77363232.....395	8033786 348	80484085 425, 427	8305644.....83
77363233.....394	8034805 263	80484086 425, 427	8305645.....27, 313, 321
77383118.....133, 137	8034807 263	80484088 437	8307007.....83
77383540.....268	8035392 263	80604016 . 414, 418, 428, 431, 435, 443	8307024.....252
77383790.....123	8035461 259	80604017 403, 407	8307107.....111
77384578.....397	8035498 263	80604018 . 425, 431, 441, 445, 447	8307112.....83
77394009.....431	8035523 257	80604019 . 425, 431, 441, 445, 447	8307904.....77
8008175.....171, 183	8035536 348	80604020 457	8307916 . 27, 63, 321, 331
80204002.....183	8035779 134, 137	80604021 .. 425, 431, 437	8307917 . 27, 63, 321, 331
80204005..145, 147, 149, 155, 159, 163, 179, 181, 183, 191, 193, 195	8035782 339	80604022 411, 457	8307918.....77
80204007.....147	8035784 335, 339	80604023 439	8310067.....27, 63, 321
80204012..145, 147, 149, 179	8035831 108	80604025 .. 427, 431, 443	8310160.....77
80204014.....149	8035862 348	8065062 77	8310161.....77
80204016.....147	8035863 348	8065640 133, 137	8310302.....75
80204025.....151, 185	8035865 335, 339	8065640 133, 137	8310435.....75
80204033..151, 153, 185, 187, 189	8036088 263	80933113 290	8310453.....383, 387
80204035..151, 153, 185, 187, 189	8036250 239	80933367 123, 125	8310494.....119
80204043..151, 153, 185, 187, 189	80363033 261	80934498 283, 285	8310647.....387
80204044.....185, 187	80363034 261	80961142 401	8310737.....273
80204047..151, 153, 185, 187, 189	80363099 273	80963050 403, 407	83191010.....245, 247
80204048..151, 153, 185, 187, 189	80363102 273	80963055 431	83201057.....272
80204049..151, 153, 185, 187, 189	80363103 273	80963056 .. 424, 435, 451	83201058.....253
80204050..151, 153, 185, 187, 189	80363178 435	80963057 433	83201147.....15
	80363179 .. 397, 421, 435	80963058 397, 451	83481285... 424, 431, 435
	8036394 331	80963061 424, 439	83481286... 424, 431, 435
	80364001 259	80963062 . 424, 433, 439, 441	83663119.....295
	80364009 256	80963064 433	8405007.....215
	80364011 256	80963065 . 397, 424, 425, 431, 433, 451	8405102.....119
		80963067 .. 425, 433, 451	8405104.....119, 359
		80963068 431, 433	8405201.....119
		80963069 .. 397, 433, 451	8405212.....119
		80963070 433	8405305.....119
		80963101 399	8405306.....119
		80964001 399	8406105.....403, 407
		80964051 259, 471	8406303.....119
		80964070 .. 403, 404, 407	8410013.....119
		8096D097.. 263, 403, 407	8420053.....71, 73, 75, 77
			8420055.....71, 73, 75, 77
			84231107.....269

SECTION 12 - RECOMMENDED SPARE PARTS

8430034	117	88681343	38	90554076	81, 93, 97	91161213	57
8466306	465	88681344	57	90554077	81	91161214	57
84712749	268	8880218-OM	133, 137	90554080	89	91161218	53
84719940	27	8881800	394	91023098	261	91161221	33, 37, 41, 49
8500066	407	90020003	75	91031236	29, 31, 33, 37, 41, 45, 49, 51, 470	91161222	33, 37
8522012	53, 55, 57, 60	90022230	341	91033186	29, 31, 33, 37, 41, 45, 470	91161248	33, 37, 41, 45, 49, 51
8526203	243	90027187	311	91033187	49, 51, 311, 470	91161266	53
8530025	119	90027470	41	91033189	29, 31, 33, 41, 45, 470	91161267	53, 57, 59
8546407	290	90027471	29, 31, 33, 37, 41, 45, 49, 51	91033317	397	91161274	49, 51
8580315	77	90027473	253	91033425	397	91161277	41, 45, 49
8584001	77	90027475	133, 137	91041449	53, 55, 57, 59, 313	91161278	33
8584003	394	90028720	290	91041450	45, 53, 55, 57, 59	91163028	465
85941016	411	90200003	67, 69, 71, 77	91041451	53, 55, 57, 59, 313	91163035	129, 470
85941017	313	90200602	23	91041596	53, 55, 57, 59, 313	91163036	53, 57, 470
8630003	75	90200755	261	91043084	243	91163037	57
8642207	77	90205792	307	91043125	103, 107, 313, 321, 391	91163066	394
86683122	295	90205870	29, 31, 33, 37, 41, 45, 49, 51, 470	91043126	103, 107, 313, 321, 391	91163087	261
86683193	268	90206194	120	91081313	21	91163100	359, 394
86881273	49, 51	90206196	268	91081640	383, 387, 391	91163161	57, 59
86881276	49, 51	90206198	18, 261, 383, 387	91083106	290	91163162	57
86883328	268, 273	90206199	252	91083217	311	91163163	53
86921268	53, 57, 59	90206202	15, 293	91083385	243	91163188	33, 37, 41, 45, 49, 51, 470
8750024	111	90206203	18, 290	91121082	33, 37, 470	91163204	53, 57, 59
8750025	111	90207463	394	91121134	309, 313, 394	91163214	33, 37, 470
8769132	77	90207464	309, 313	91123054	309, 313, 394	91164087	256
8770016	77	90207661	394	91123126	281	91164094	256
8770258	277	90214009	471	91126032	394	91165022	53, 57
8780039	243	90451058	75	91140001	15	91166039	49, 51
8786514	243	90554016	93, 97, 99	91141301	27	91166065	49, 51
88201008	313	90554017	93	91141302	33, 41, 45, 49, 51, 470	91334024	256
88211550	37	90554018	93	91141303	33, 37, 41, 45, 49, 51, 470	91334032	259
88211551	37	90554020	80, 97	91143024	313	91334034	256
88212287	27	90554021	80	91143107	394, 395	91334035	256
88261010	411	90554025	80	91143117	411	91343031	404
88261026	119	90554026	80	91143122	117, 274	91344046	256
8841322	239	90554027	80	91143141	394	91344053	404
88501004	313, 314	90554033	99	91144190	281	91355034	243
88501005	314	90554034	99	91144191	281	91355035	243
88501006	18, 359	90554035	80	91144478	263	91355037	243
88501008	257, 309, 313	90554038	80	91161136	329	91355038	243
88501012	253	90554039	80	91161137	329	91361032	394
88501016	253	90554040	80	91161167	29	91361045	33
88501108	309, 313	90554042	80, 97	91161168	37	91361046	33
88501312	57	90554043	80	91161169	41, 45	91361047	41
88501314	53, 57, 59	90554044	80	91161170	33, 41	91363021	414, 418, 421, 425
88501412	57	90554045	80, 348, 351	91161171	29, 31	91363068	394
88501414	53, 57, 59	90554046	348	91161173	41, 45	91363151	394
88521205	245, 274	90554054	97	91161180	57, 59	91365037	394
88521208	120, 335, 339	90554056	80	91161183	29, 31, 33, 37, 470	91366015	394
88521306	311	90554057	80	91161184	29, 31, 33, 37, 41, 49, 470	91401189	53, 55, 57, 59
88551009	111, 313	90554058	80	91161211	57	91401281	383, 387
88551013	23	90554059	80	91161212	57	91401443	397
88581112	53, 57, 60	90554060	80			91401450	313
88581115	55, 59	90554061	81			91401516	261
88581149	329	90554062	81, 93, 97			91401590	261
88581157	331	90554063	81			91403097	253
88661002	27	90554064	81			91403098	253
88662019	361	90554065	81, 93			91403119	55, 59
88662065	361	90554067	80			91403193	133, 137
88662523	18	90554069	80			91403230	252
8866334	259	90554070	80			91403324	261
8866348	18	90554071	81			91403413	71, 73, 75, 77, 103, 107, 313, 321, 391
88671001	18, 21, 71, 133, 137, 337	90554072	81				
88671018	49, 51	90554073	80				
88671027	33, 37, 41, 45, 49, 51						

SECTION 12 - RECOMMENDED SPARE PARTS

91403414..71, 73, 75, 77, 103, 107, 313, 321, 391	91474450..... 363	91514113 . 155, 159, 163, 191, 193, 195	91514189.. 155, 159, 163, 191, 193, 195
91403489.....129	91474451..... 363	91514114 . 155, 159, 163, 191, 193, 195	91514197.....363
91403503...257, 403, 407	91474452..... 363	91514115 . 155, 159, 163, 191, 193, 195	91514198.....363
91403579.....359	91474453..... 363	91514117 193, 195	91514199.....363
91403601.....129	91474454..... 363	91514118 245, 247	91514224.....283
91403608.....397	91474455..... 363	91514123 . 151, 153, 155, 159, 185, 187, 189, 191, 193	91514266.....273
91404011.....283	91474456..... 363	91514130 . 151, 153, 185, 187, 189	91514270.....273
91404013.....283	91474458..... 363	91514131 . 151, 153, 185, 187, 189	91514272.....273
91404016.....283	91474459..... 363	91514133 . 151, 153, 187, 189	91514295.....273
91404109.....256	91474460..... 363	91514134 . 151, 153, 187, 189	91514296.....273
91404110.....256	91474465..... 399	91514141 151	91553072.....467
91404290.....256	91474468..... 424	91514143 151	91554017.....445
91404291.....256	91474469..... 424	91514146 . 155, 159, 163, 191, 193, 195	91554019.....435
91404294.....256	91474481..... 259	91514147 . 155, 159, 163, 191, 193, 195	91554022..... 414, 418
91404295.....256	91474482..... 259	91514148 . 155, 159, 163, 191, 193, 195	91561090.....59
91404296.....256	91474492..... 259	91514149 . 155, 159, 163, 191, 193, 195	91561101.....31
91404297.....256	91474512 . 145, 147, 179, 181, 183	91514151 .. 165, 167, 169	91561107.....55
91404298.....256	91474513.. 155, 163, 191	91514154 . 169, 197, 199, 201	91561108.....45
91404299.....256	91474524 163, 195	91514159 . 165, 169, 197, 199, 201	91561140..... 301, 303
91404301.....256	91476031 277	91514160 197, 199	91561156B 29, 31
91404302.....256	91501064 313	91514161 . 165, 167, 197, 199, 201	91561192.....279
91404303.....256	91503093 369	91514165 . 165, 169, 197, 199, 201	91561240.....373
91404305.....256	91503094 314	91514173 165, 169	91561250.....59
91404306.....256	91503105.. 437, 439, 447	91514174 . 155, 159, 163, 191, 193, 195	91561268.....314
91404309.....259	91503106 437, 439	91514175 . 155, 159, 191, 193, 209	91563021.....59
91404310.....259	91503112 465	91514176 159	91563025..... 55, 59
91404311.....259	91504028 283	91514177 . 155, 159, 191, 193, 209	91563026..... 55, 59
91404312.....259	91504029 283, 285	91514178 . 155, 159, 163, 191, 193, 195	91563028.....37
91404313.....259	91504030 285	91514179 . 155, 159, 163, 191, 193, 195	91563030..... 55, 59
91404315.....259	91504031 285	91514180 . 155, 159, 163, 191, 193, 195	91563035..... 55, 59
91404316.....259	91504056 369	91514181 . 155, 159, 163, 191, 193, 195	91563036..... 60
91404317.....259	91504057 369	91514183 163	91563046.....325
91404318.....259	91504058 369	91514184 . 155, 159, 191, 193, 211	91563047.....333
91404319.....259	91504059 369	91514185 . 155, 159, 191, 193, 211	91563061.....253
91404320.....259	91504088 431	91514186 . 155, 159, 191, 193, 211	91563062.....253
91404321.....259	91504089 427	91514188 . 147, 155, 159, 163, 191, 193, 195	91563075.....261
91404322.....259	91504107 431	91514189.. 155, 159, 163, 191, 193, 195	91563079.....123
91404323.....259	91511094 33, 37, 470	91514197.....363	91563091.....215
91404324.....259	91511105 133, 137	91514198.....363	91563121.....215
91404325.....283, 471	91511127 411	91514199.....363	91563129.....123
91404326.....283	91511145 277	91514200.....285	91563147.....37
91404382.....331	91513125 281	91563201.....285	91563158.....265
91413036..252, 268, 272, 313	91513176 55, 59	91563205.....261	91563161.....46, 51
91413052.....403, 407	91513180 277	91563207.....261	91563163.....125
91413061.....465	91513212 283, 471	91563208.....281	91563164.....265
91413122.....53, 57, 60	91513266 245, 247	91563209.....133	91563185.....433
91413129.....57	91514081 193, 195	91563219..... 55, 59	91563190.....367
91413142.....257	91514082 . 155, 159, 163, 191, 193, 195	91563226..... 281, 471	91563191.....261
91473126.....245	91514087 . 145, 149, 179, 181, 183, 193, 195	91563244.....331	91563192.....397
91473127.....399	91514089 181, 183	91563247.....451	91563197..... 21, 337
91473206.....243	91514090 . 145, 147, 179, 181, 213	91563250.....243	91563199..... 21, 337
91473211.....261	91514095 . 155, 159, 163, 191, 193, 195	91563263.....329	91563200.....285
91474035...133, 137, 471	91514098 . 145, 147, 149, 179, 181, 183	91563282.....141	91563201.....285
91474402.....361	91514099 . 145, 147, 155, 159, 163, 179, 181, 191, 193, 195, 213	91564003..... 80, 81	91563205.....261
91474407.....361	91514101 181, 183		91563207.....261
91474434.....363	91514111 . 155, 159, 163, 191, 193, 195, 471		91563208.....281
91474435.....363	91514112 193, 195		91563209.....133
91474438.....363			91563219..... 55, 59
91474439.....363			91563226..... 281, 471
91474440.....363			91563244.....331
91474441.....363			91563247.....451
91474442.....363			91563250.....243
91474443.....363			91563263.....329
91474446.....363			91563282.....141
91474447.....363			91564003..... 80, 81

SECTION 12 - RECOMMENDED SPARE PARTS

91565004	59	91565040	243	91565094.....	89	91566063	245
91565005	55, 59	91565067	253	91566007B	37	91569003	253
91565039	243	91565081	245	91566062.....	245	91576006B.....	33



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