

SKYTRAK[®]

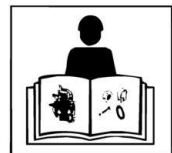
Illustrated Parts Manual

Model 6036

S/N 14833 & Before

P/N - 8990150

Revised August 1, 2021 - Rev F



EFFECTIVITY PAGE

November, 1997 - 004 - Revised Manual

February 11, 2005 - E - Replaced all Branding with JLG.

August 1, 2021 - F - Revised Manual with new Rec Spares.

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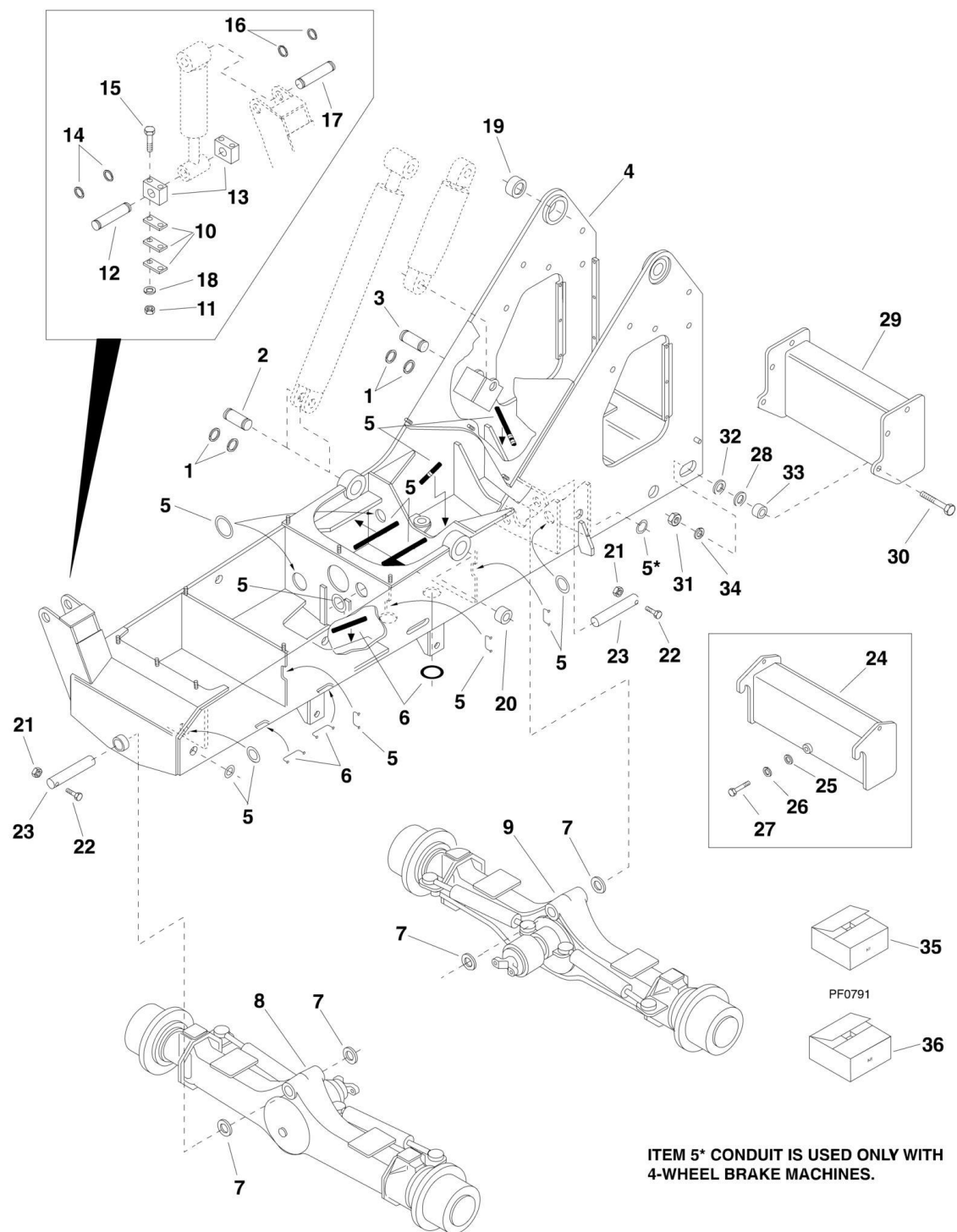
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SECTION 1 - MAIN FRAME AND GUARDS

SECTION 1 - MAIN FRAME AND GUARDS

FIGURE 1-1. MAIN FRAME



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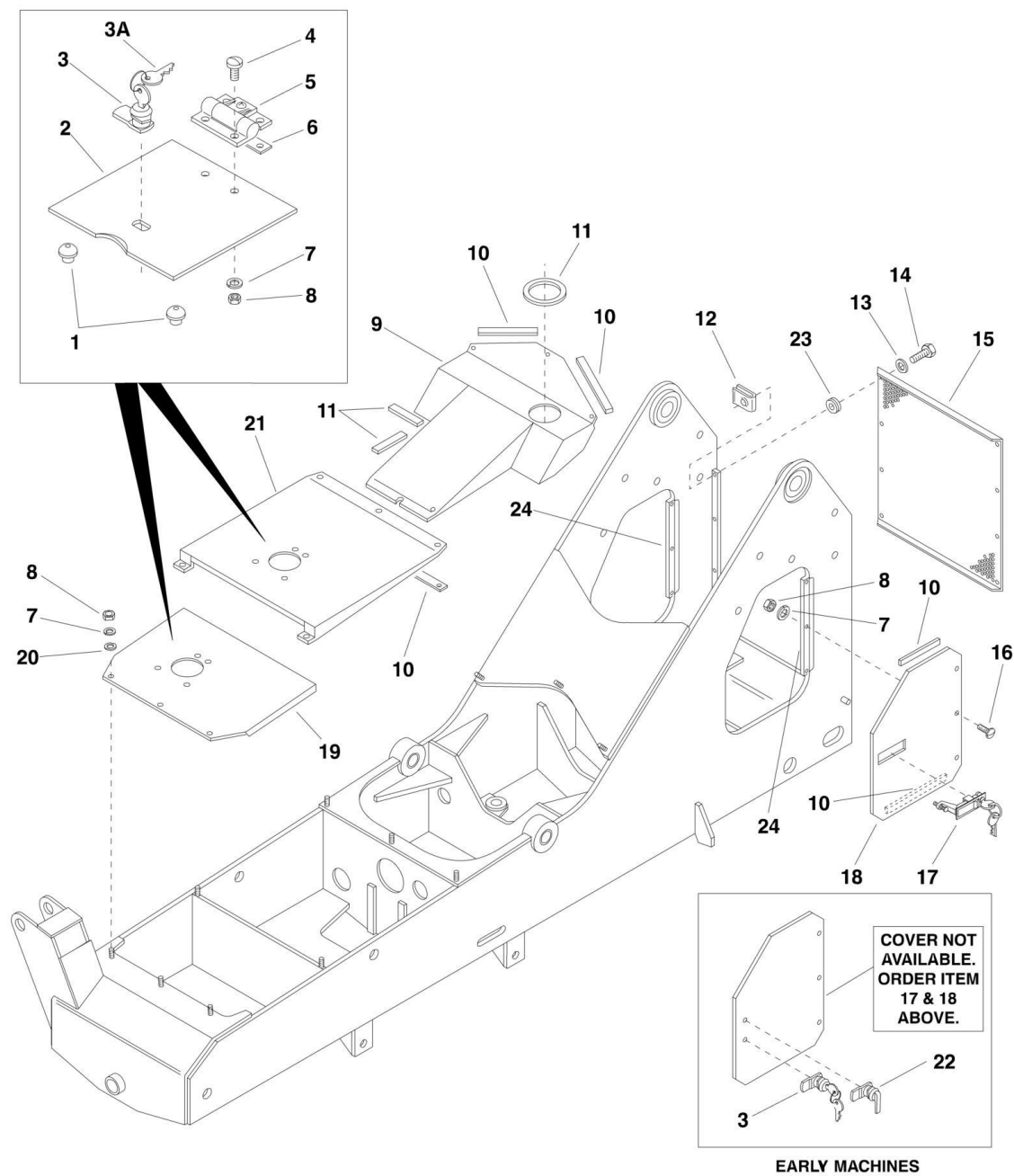
SECTION 1 - MAIN FRAME AND GUARDS

FIGURE 1-1. MAIN FRAME

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8642224	6	Ring, Snap, 2.0 Dia	
2	7081571	2	Pin, Hoist Cylinder	
3	7081601	1	Pin, Slave Cylinder	
4	Consult Factory	1	Frame Weldment	
5	8221020	AR	Conduit, 1 ID x 5 Ft - Cut to Fit	
6	8221011	AR	Conduit, 1/2 ID x 5 Ft - Cut to Fit	
7	8310093	AR	Shim, 0.075 Thk	
8	8040229	1	Axle, Front (Prior to SN 2344)	
8	8040250	1	Axle, Front (SN 2344 to Present)	
9	8040228	1	Axle, Rear (w/o Service Brakes)	
9	8040232	1	Axle, Rear (w/ Service Brakes) (Prior to SN 1306)	
9	8040241	1	Axle, Rear (w/ Service Brakes) (SN 1306 through 2337)	
9	8040251	1	Axle, Rear (w/ Service Brakes) (SN 2338 to Present)	
10	7084911	AR	Shim, 0.010 Thk	
11	8305017	4	Nut, Hex, 3/4-10	
12	7081551	1	Pin, Frame Leveling	
13	7081561	2	Block, Mounting	
14	8642207	2	Ring, Snap, 1.5 Dia	
15	8303731	4	Screw, Hex Hd Cap, 3/4-10 x 5-1/2	
16	8642207	2	Ring, Snap, 1.5 Dia	
17	7081541	1	Pin, Frame Leveling Cylinder	
18	8307010	4	Lockwasher, 3/4	
19	8065637	2	Bushing, 2-1/2 ID	
20	8065636	2	Bushing, 2 ID	
21	8305643	2	Locknut, 5/8-11 (See Kits)	
22	8303655	2	Screw, Hex Hd Cap, 5/8-11 x 4-1/2, Gr 5 (See Kits)	
23	7096062	2	Pin, Axle Pivot (See Kits)	
24	7083353	NLA	Counterweight (no longer available) - See Kits (Prior to SN 9F0695)	
25	8307107	1	Washer, Flat, 5/8 (Prior to SN 9F0695)	
26	8307009	1	Lockwasher, 5/8 (Prior to SN 9F0695)	
27	8303633	1	Screw, Cap, Hex Hd, 5/8-11 x 3-1/2 (Prior to SN 9F0695)	
28	5724302	AR	Washer, Shim, 0.060 Thk (SN 9F0695 to Present)	
29	7089913	1	Counterweight (SN 9F0695 to Present)	
30	8310051	4	Screw, Hex Hd Cap, 1-8 x 4, Gr 5 (SN 9F0695 to Present)	
31	8305021	4	Nut, Hex 1-8 (SN 9F0695 to Present)	
32	8310066	AR	Washer, Flat, 1 (SN 9F0695 to Present)	
33	7088341	4	Spacer (SN 9F0695 to Present)	
34	8307012	4	Lockwasher, 1 (SN 9F0695 to Present)	
		Ref	KITS	
35	7086851	2	Pin and Hub Kit (Includes Items 21, 22, 23 & Locking Hub)	
36	7096622	1	Counterweight Kit for item 24 (Includes Hardware)	

SECTION 1 - MAIN FRAME AND GUARDS

FIGURE 1-2. HOODS AND GUARDS



SECTION 1 - MAIN FRAME AND GUARDS

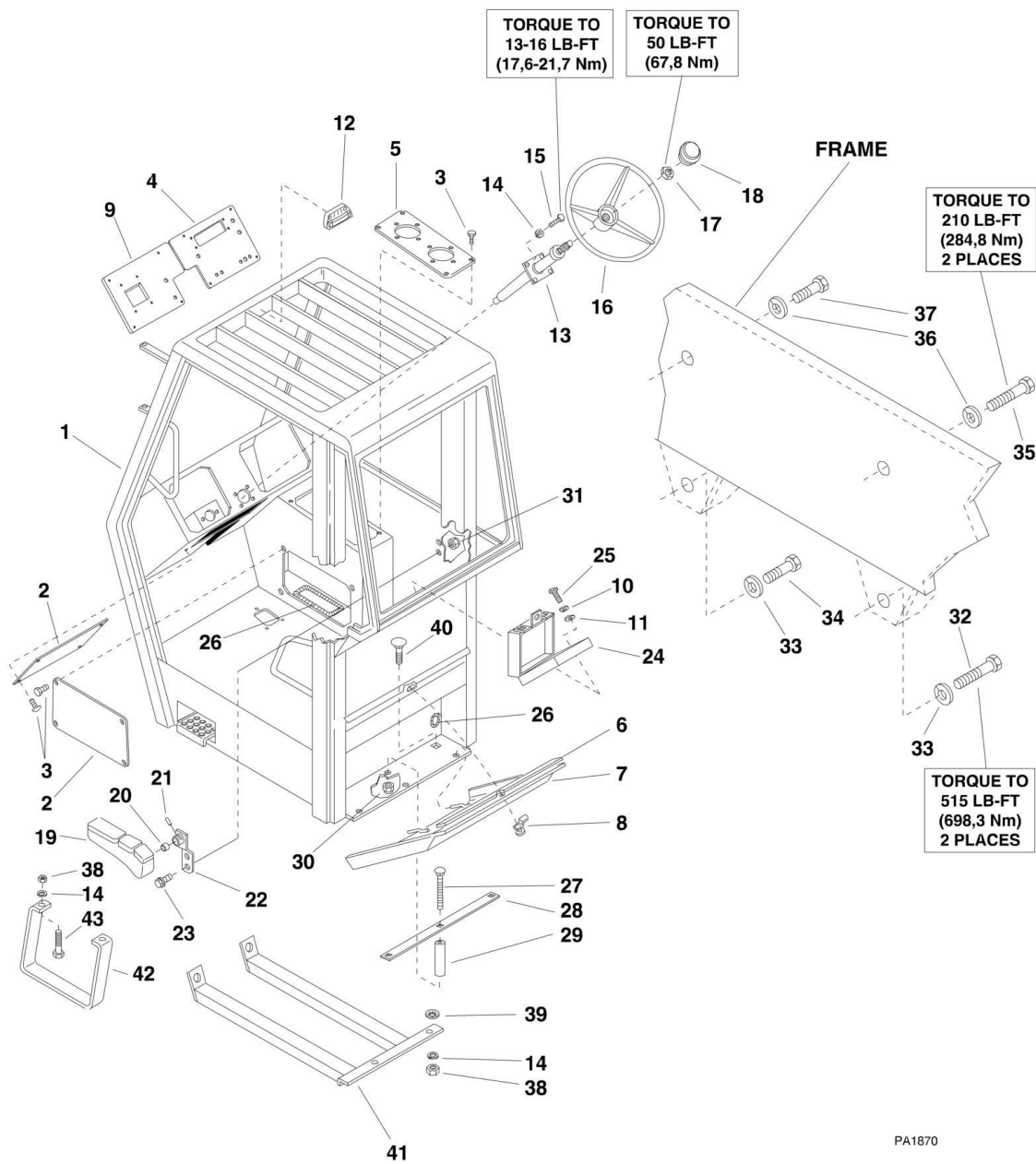
FIGURE 1-2. HOODS AND GUARDS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8582413	4	Plug, Bumper	
2	7084792	2/4	Door, Access	
3	8342807	2	Latch, Door w/Key	
3A	8342808	1	Key Set	
4	8303034	8	Screw, Truss Hd, 1/4-20 x 3/4	
5	8344010	2	Hinge	
6	7084821	2	Shim	
7	8307002	25	Lockwasher, 1/4	
8	8305004	25	Nut, Hex, 1/4-20	
9	7083583	1	Cover, Transmission	
10	8581007	AR	Tape, Foam, (sold in 50in increments)	
11	8221020	AR	Conduit, 1 ID x 5 Ft - Cut to Fit	
12	8305906	8	Nut, Retainer, 5/16-18	
13	8307203	8	Washer, Flat, 5/16	
14	8303739	8	Screw, Hex Hd Cap, 5/16-18 x 1-1/4	
15	7080383	1	Cover, Radiator	
16	8303776	6	Screw, Hex Hd Cap, 1/4-20 x 1/2	
17	8342416	2	Latch, Adjustable Trigger w/Key	
18	7080763	2	Cover, Side Access	
19	7083503	1	Cover, Fuel Tank	
20	8307202	11	Washer, Flat, 1/4	
21	7083533	1	Cover, Hydraulic Tank	
22	8342404	2	Latch, Lift and Turn	
23	8580203	8	Grommet	
24	7077261	2	Hinge, Side Access Cover	

SECTION 2 - OPERATOR CAB AND CONTROLS

SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-1. OPERATOR'S CAB - OPEN



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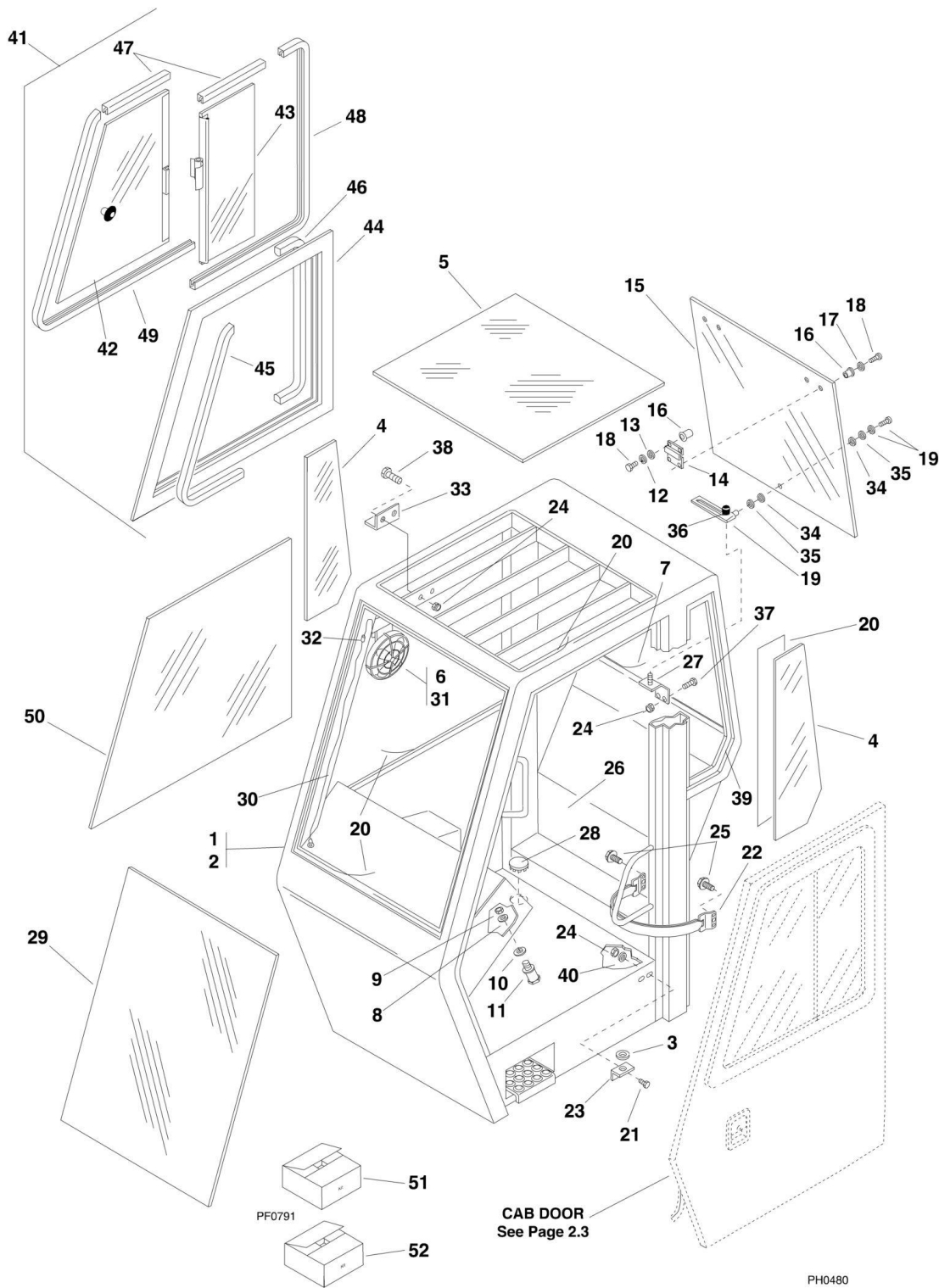
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-1. OPERATOR'S CAB - OPEN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7112102	1	Cab Assembly, FOPS Orange - (Includes Items 2 thru 8)	
1	7112112	1	Cab Assembly, FOPS White - (Includes Items 2 thru 8)	
2	8033050	2	Panel, Lower	
3	8303034	16	Screw, Truss Hd Machine, Torx, 1/4-20 x 3/4	
4	8033052	1	Panel, Right Front Console	
5	8033053	1	Panel, Side Console	
6	8033031	1	Gasketing, Sponge Rubber, 25-1/4	
7	8033022	1	Cover, Battery (SN 8L0328 to Present)	
7	7126272	1	Cover, Battery (SN 8L0327 to Present)	
8	8342807	1	Lock, Cam	
9	8033051	1	Panel, Left Front Console	
10	8307002	3	Lockwasher, 1/4	
11	8307109	3	Washer, Flat, 1/4	
12	8466307	1	Gauge, Tilt Angle	
13	8721023	1	Column, Steering	
14	8307005	10	Lockwasher, 3/8	
15	8303534	4	Screw, Flange Hd Cap, 3/8-16 x 1-1/4	
16	8720014	1	Wheel, Steering	
17	8305916	1	Nut, Steering Column	
18	8720015	1	Cap, Steering Wheel	
19	8864038	1	Arm Rest	
20	8065639	1	Bushing, Sleeve	
21	8302147	1	Pin, Roll	
22	7098342	1	Bracket, Arm Rest	
23	8303705	2	Screw, Flange Hd Cap, 1/4-20 x 3/4	
24	8990147	1	Holder, Manual	
25	8303729	3	Screw, Hex Hd Cap, 1/4-20 x 5/8	
26	8221011	1	Conduit, 1/2 ID x 5ft - Cut to fit	
27	8304014	3	Bolt, Carriage, 3/8-16 x 9	
28	7082971	1	Bar, Battery Hold-down	
29	8403217-0080	3	Hose	
30	8305645	3	Nut, Lock, 3/8-16	
31	8305624	2	Nut, Lock, 1/4-20	
32	8310050	1	Screw, Hex Hd Cap, 1-8 x 6	
33	8307012	2	Lockwasher, 1in	
34	8310049	1	Screw, Hex Hd Cap, 1-8 x 2-3/4	
35	8310112	1	Screw, Hex Hd Cap, 3/4 10 x 6	
36	8307010	2	Lockwasher, 3/4	
37	8303638	1	Screw, Hex Hd Cap, 3/4-10 x 2-3/4	
38	8305008	6	Nut, Hex, 3/8-16	
39	8310070	4	Retainer, 3/8	
40	8310036	4	Bolt, Carriage, 3/8-16 x 1-1/4	
41	7097233	1	Guard, Bottom	
42	7084882	1	Step	
43	8303534	2	HHCS, 3/8-16 x 1-1/4	

SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-2. OPERATOR'S CAB - CLOSED (OPTIONAL)



SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-2. OPERATOR'S CAB - CLOSED (OPTIONAL)

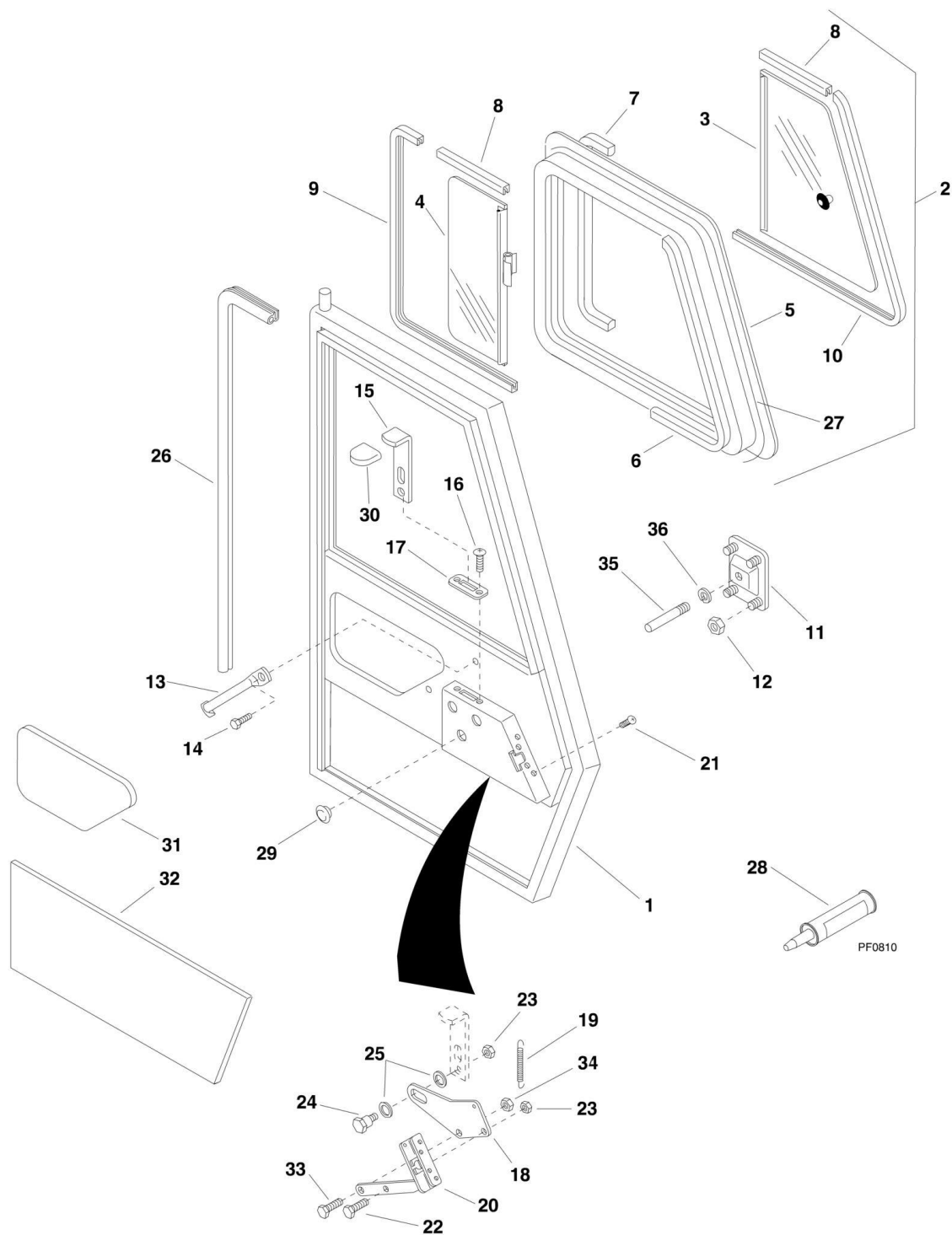
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1		Ref	Cab Assembly (See OPERATOR'S CAB - OPEN for Breakdown)	
2	7099324	1	Cab, Enclosed (Includes Items 3 thru 49 on this page and all parts on WINDSHIELD WIPER (OPTIONAL CLOSED CAB ONLY))	
3	8307207	1	Washer, Flat, 5/8	
4	8033079	2	Window, Wing	
5	8033081	1	Window, Skylight	
6	8033092	4	Screw, Socket Hd, #10-24 x 3/4	
7	8033072	1	Seal, Rubber, 120 in	
8	8307113	1	Washer, Flat, 7/16	
9	8305647	1	Locknut, 7/16-14l	
10	8307206	AR	Washer, Flat, 1/2	
11	8346010	1	Bolt, Striker	
12	8307003	4	Lockwasher, #10	
13	8307201	4	Washer, Flat, 3/16	
14	8033085	2	Hinge, Spring	
15	8033084	1	Window, Rear	
16	8033086	8	Nut, Well	
17	8033087	4	Washer, Nylon	
18	8033088	8	Screw, Phillips Hd, #10-32 x 3/4	
19	8033044	1	Window Hold Slide Assembly, w/Hardware	
20	8585135	3	Tape, Butyl, 1/4in square x 15ft Roll (See Kits)	
21	8303540	2	Screw, Hex Hd Cap, 1/4-20 x 1	
22	8342413	1	Strap	
23	8033090	1	Bracket, Door Mounting	
24	8305601	6	Locknut, 1/4-20	
25	8303982	4	Screw, Self Tapping, 1/4-20 x 3/4	
26	8346011	1	Panel, Rear Foam	
27	8585138	1	Weldment, Latch Bracket	
28	8580315	1	Plug, Hole	
29	8033479	1	Window, Front	
30	8033076	1	Wire Assembly, Fan	
31	8033078	1	Fan, Defroster	
32	8033077	2	Connector, Wire	
33	8033094	1	Bracket, Fan	
34	8585139	2	Washer, Flat Plastic, 3/8	
35	8307204	2	Washer, Flat, 3/8	
36	8580115	1	Knob	
37	8303776	2	Screw, Hex Hd Cap, 1/4-20 x 1/2	
38	8303540	2	Screw, Hex Hd Cap, 1/4-20 x 1	
39	8585134	AR	Sealant, Urethane, 10 oz Cartridge (Location Shown Only) (See Kits)	
40	8307002	2	Lockwasher, 1/4	
41	8346009	1	Window, Right Side Sliding (Includes Items 43 thru 49)	
42	8033833	1	Glass Assembly, Front	
43	8033834	1	Glass Assembly, Rear	
44	8033835	1	Frame Assembly	
45	8033836	1	Trim Stop, Front	
46	8033837	1	Trim Stop, Rear	
47	8033838	2	Rubber, Flkd	
48	8033839	1	Rubber, Flkd	

SECTION 2 - OPERATOR CAB AND CONTROLS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	8033840	1	Rubber, Flkd	
50	8033082	1	Window, Right Side (Optional)	
		Ref	KITS	
51	8585133	1	Window Glue Kit (Includes Items 20, 39, four Setting Blocks and one Set of Installation Instructions)	
52	7111332	1	Door Strap Kit (For Gas Spring Replacement on Older Machines) (Includes Items 22 & 25)	

SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-3. CAB DOOR



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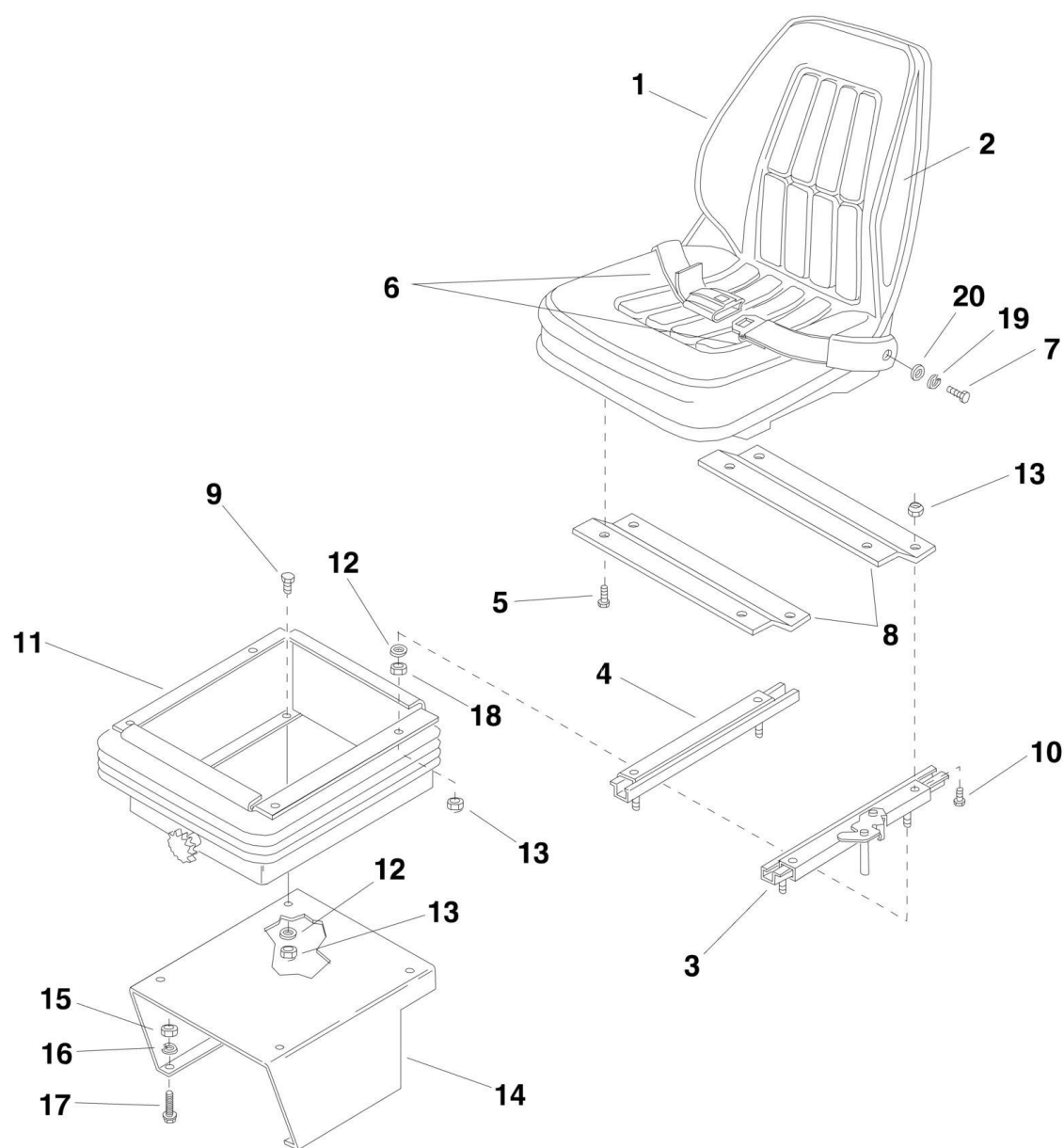
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-3. CAB DOOR

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8346008	1	Door Assembly - Orange (Includes Items 1 thru 36)	
	8346013	1	Door Assembly - White (Includes Items 1 thru 36)	
1	8033844	1	Door Weldment	
2	8033845	1	Sliding Window Assembly (Includes Items 3 thru 10)	
3	8033843	1	Glass Assembly, Front	
4	8033842	1	Glass Assembly, Rear	
5	8033841	1	Frame Assembly	
6	8034544	1	Trim Stop, Front	
7	8034545	1	Trim Stop, Rear	
8	8034546	2	Rubber, Flkd	
9	8034547	1	Rubber, Flkd	
10	8034548	1	Rubber, Flkd	
11	8033846	1	Latch, Paddle	
12	8033847	4	Nut, Hex Locking, 1/4-20	
13	8033848	1	Grab Handle	
14	8033849	1	Screw, Self Tapping, 1/4 x 3/4	
15	8033850	1	Door Release	
16	8033851	1	Screw, Self Tapping, 1/4 x 1/2	
17	8033852	1	Bezel	
18	8033853	1	Latch Trip	
19	8033854	1	Spring	
20	8033855	1	Cam Latch, RH	
21	8033856	4	Bolt, Hex Hd, 1/4-20 x 3/4	
22	8033857	1	Bolt, Hex Hd, 5/16-18 x 3/4	
23	8033858	2	Nut, Hex Locking, 5/16-18	
24	8033859	1	Shoulder Bolt	
25	8033860	2	Washer, Nylon	
26	8033861	1	Seal, Rubber (17ft)	
27	8585135	1	Tape, Butyl, 1/4in Square x 15ft Roll	
28	8585134	1	Sealant, Urethane, 10 Oz Cartridge	
29	8033862	3	Plug, Hole	
30	8033863	1	Rubber Grip	
31	8033864	1	Vinyl, Upper Door	
32	8033865	1	Vinyl, Lower Door	
33	8033866	1	Bolt, Hex Hd, 3/8-16 x 3/4	
34	8033867	1	Nut, Hex Locking, 3/8-16	
35	8033868	1	Bolt, Striker	
36	8033869	1	Lockwasher, 3/8	

SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-4. OPERATOR'S SEAT



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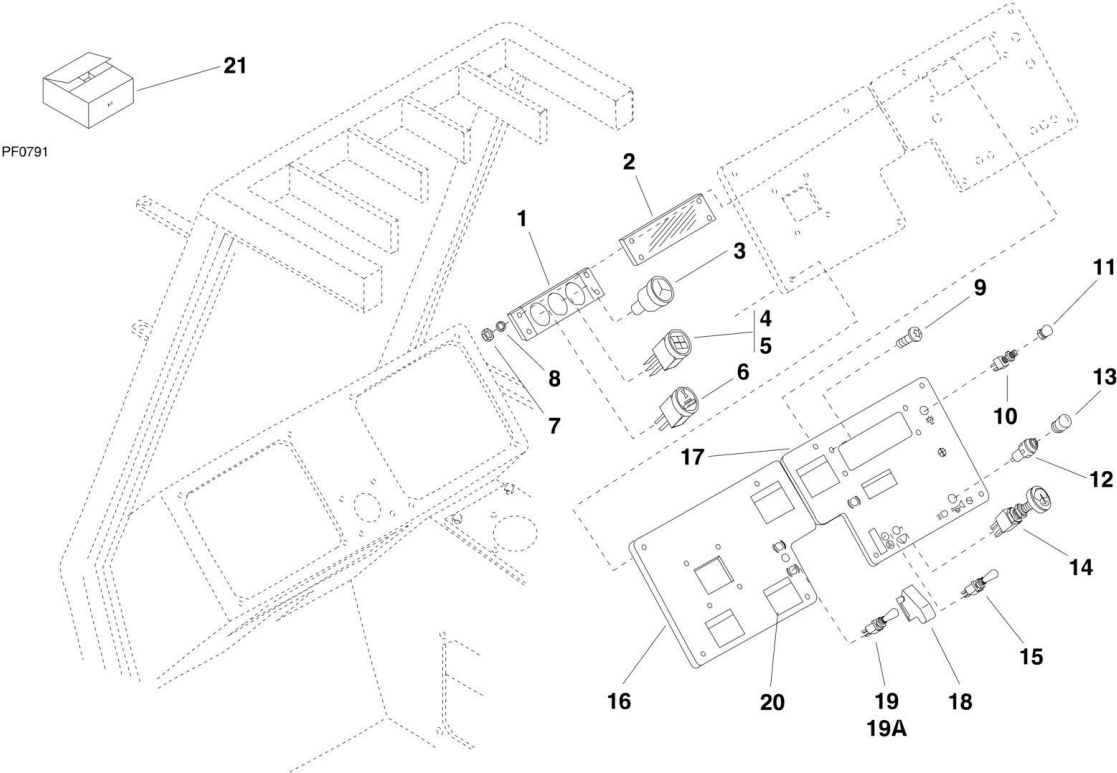
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-4. OPERATOR'S SEAT

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8864037	1	Seat Assembly, Vinyl (Includes Items 2 thru 5)	
1	8864044	1	Seat Assembly, Cloth (Optional) (Includes Items 2 thru 5)	
2	8864041	1	Cushion, Seat, Vinyl (one piece)	
2	8864045	1	Cushion, Seat, Cloth	
2	8864046	1	Seat Back, Cloth	
3	8864039	1	Slide, w/Handle	
4	8864040	1	Slide, w/o Handle	
5	N.S.S.	4	Screw, Flanged Hd	
6	8864043	1	Belt, Seat	
7	8303604	2	Screw, Hex Hd Cap, 7/16-20 x 1-1/4	
8	7090751	2	Mount, Seat	
9	8303697	4	Screw, Cap, 5/16-18 x 3/4	
10	8303745	4	Screw, Cap, 5/16-18 x 5/8	
11	8864036	1	Suspension	
12	8307106	4	Washer, Flat, 5/16	
13	8305626	12	Nut, Hex Lock Elastic, 5/16-18	
14	7083963	1	Support, Suspension	
15	8305008	4	Nut, Hex, 3/8	
16	8307005	4	Lockwasher, 3/8	
17	8303675	4	Screw, Hex Hd Cap, 3/8-16 x 1-1/4	
18	8305006	4	Nut, Hex, 5/16-18	
19	8307006	2	Lockwasher, 7/16	
20	8307113	2	Washer, Flat, 7/16	

SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-5. CONTROL CONSOLE



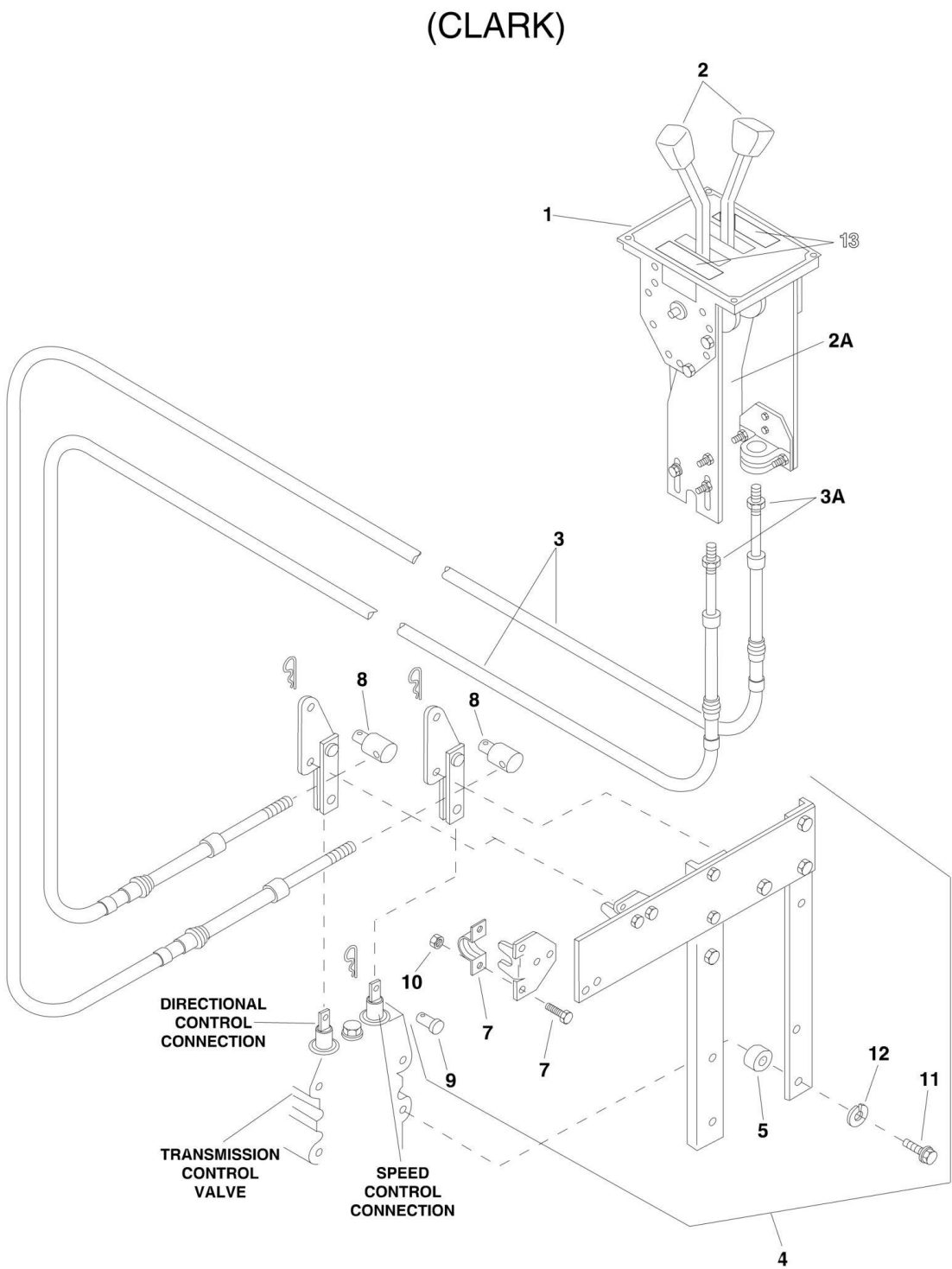
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-5. CONTROL CONSOLE

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7084902	1	Plate, Gauge Mounting	
2	7082292	1	Cover	
3	8464212	1	Gauge, Fuel	
4	8466305	1	Gauge, Warning Lights	
5	8469030	4	Bulb (Not Shown)	
6	8467010	1	Hourmeter (Prior to SN 9B0501)	
6	8467014	1	Hourmeter (SN 9B0501 to Present)	
7	8305004	4	Nut, Hex, 1/4-20	
8	8307002	4	Lockwasher, 1/4	
9	8303034	4	Screw, Truss Hd Cap, Torx, 1/4 x 3/4	
10	8223442	1	Switch Test	
11	8580312	1	Cap, Seal	
12	8223405	1	Button, Horn	
13	8580311	1	Cap, Seal	
14	8033201	1	Switch, Washer/Wiper (Optional)	
15	8223220	1	Switch, Steer Select	
16	7099352	1	Overlay, Left Console - Domestic (Late Production)	
16	7096434	1	Overlay, Left Console - Domestic (Early Production)	
16	7111842	1	Overlay, Left Console - Export	
17	7099332	1	Overlay, Right Console - Domestic (Late Production)	
17	7096334	1	Overlay, Right Console - Domestic (Early Production)	
17	7111832	1	Overlay, Right Console - Export	
18	8223445	1	Guard, Switch (See Kit)	
19	8223444	1	Switch, Brake	
19A	8307113	1	Lockwasher, External Tooth, 1/2 (Not Shown)	
20	4106692	1	Decal (See Kit)	
		Ref	KITS	
21	7086861	1	Kit, Retrofit, Park Lock Switch (Includes Items 18 & 20)	

SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-6. TRANSMISSION SHIFT CONTROLS (CLARK)



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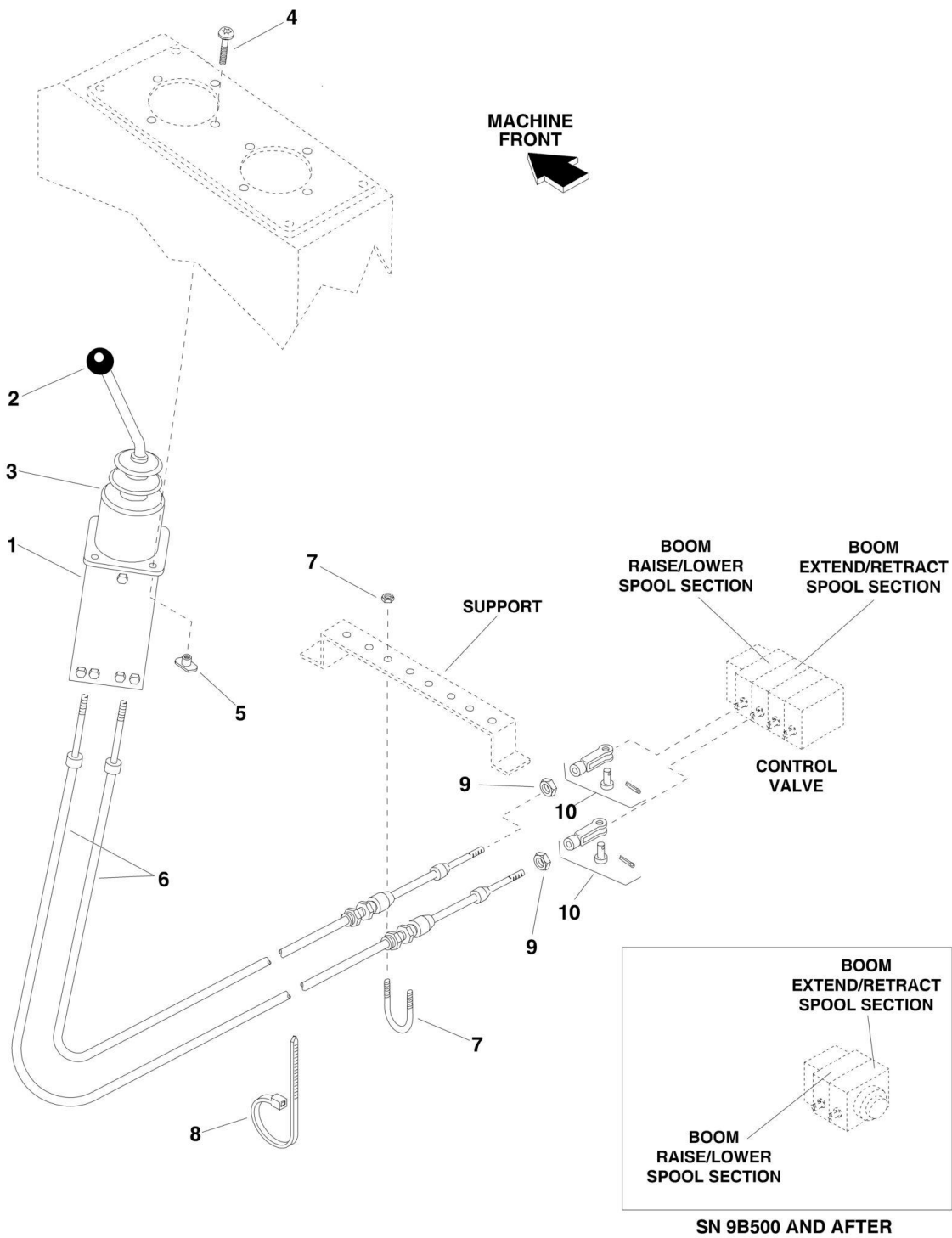
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-6. TRANSMISSION SHIFT CONTROLS (CLARK)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8160205	1	Shifter, Transmission (Includes Items 2 & 2A)	
2	8580111	2	Knob	
2A	8160621	1	Switch, Reverse	
3	8160042	2	Cable,Control	
3A	8305402	2	Nut, Jam, 1/4-28	
4	8160417	1	Transmission Connector Kit (Includes items 5 thru 12 plus all other parts not identified with an item number)	
5	8033240	4	Spacer	
6	8033241	2	Clamp	
7	8303540	4	Screw, Hex Hd Cap, 1/4-20 x 1, Gr 5	
8	8033242	2	Swivel	
9	8033243	2	Pin, Clevis	
10	8305601	4	Nut, Lock, 1/4-20	
11	8303106	4	Screw, Hex Hd Cap, 3/8-16 x 2-1/2, Gr 5	
12	8307005	4	Lockwasher, 3/8	
13	8032753	1	Decal Kit, (contains F-N-R & 3-2-1 decals)	

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FIGURE 2-7. BOOM RAISE/LOWER AND BOOM EXTEND/RETRACT CONTROL (CABLE CONTROL JOYSTICK)



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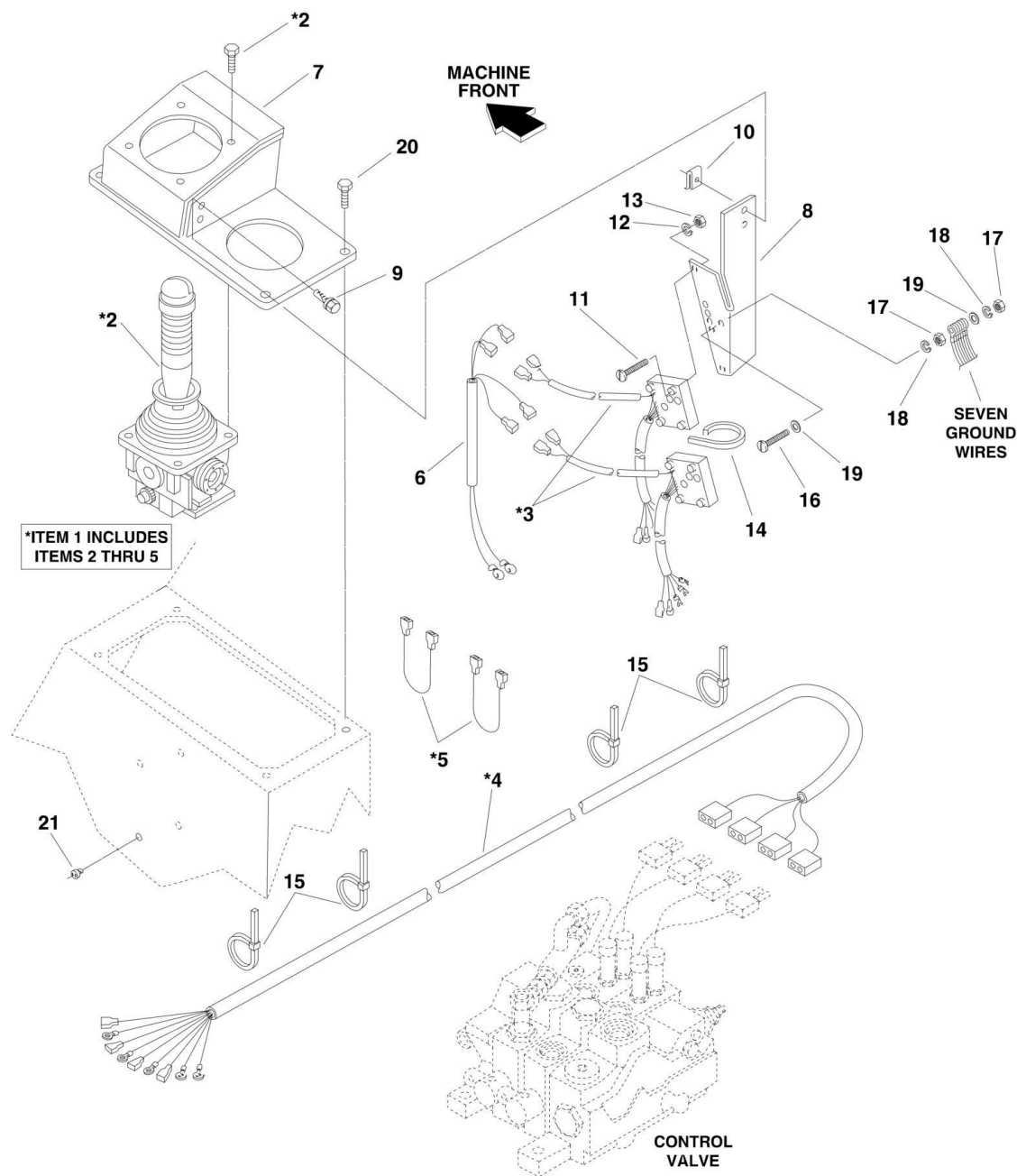
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-7. BOOM RAISE/LOWER AND BOOM EXTEND/RETRACT CONTROL (CABLE CONTROL JOYSTICK)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8224025	1	Joystick (Includes Items 2 & 3)	
2	8580110	1	Knob	
3	8160419	1	Boot	
4	8310143	4	Screw, Truss Hd, #10-24 x 3/4	
5	8310144	4	Nut, Prop. Tee, #10-24	
6	8160052	2	Cable, Control, 57in long	
7	8160615	2	Clamp	
8	8584003	2	Tie	
9	8305402	2	Nut, Jam, 1/4-28	
10	8301439	2	Clevis (w /pin)	

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FIGURE 2-8. BOOM RAISE/LOWER AND BOOM EXTEND/RETRACT CONTROL (ELECTRONIC CONTROL JOYSTICK W/O TLC)



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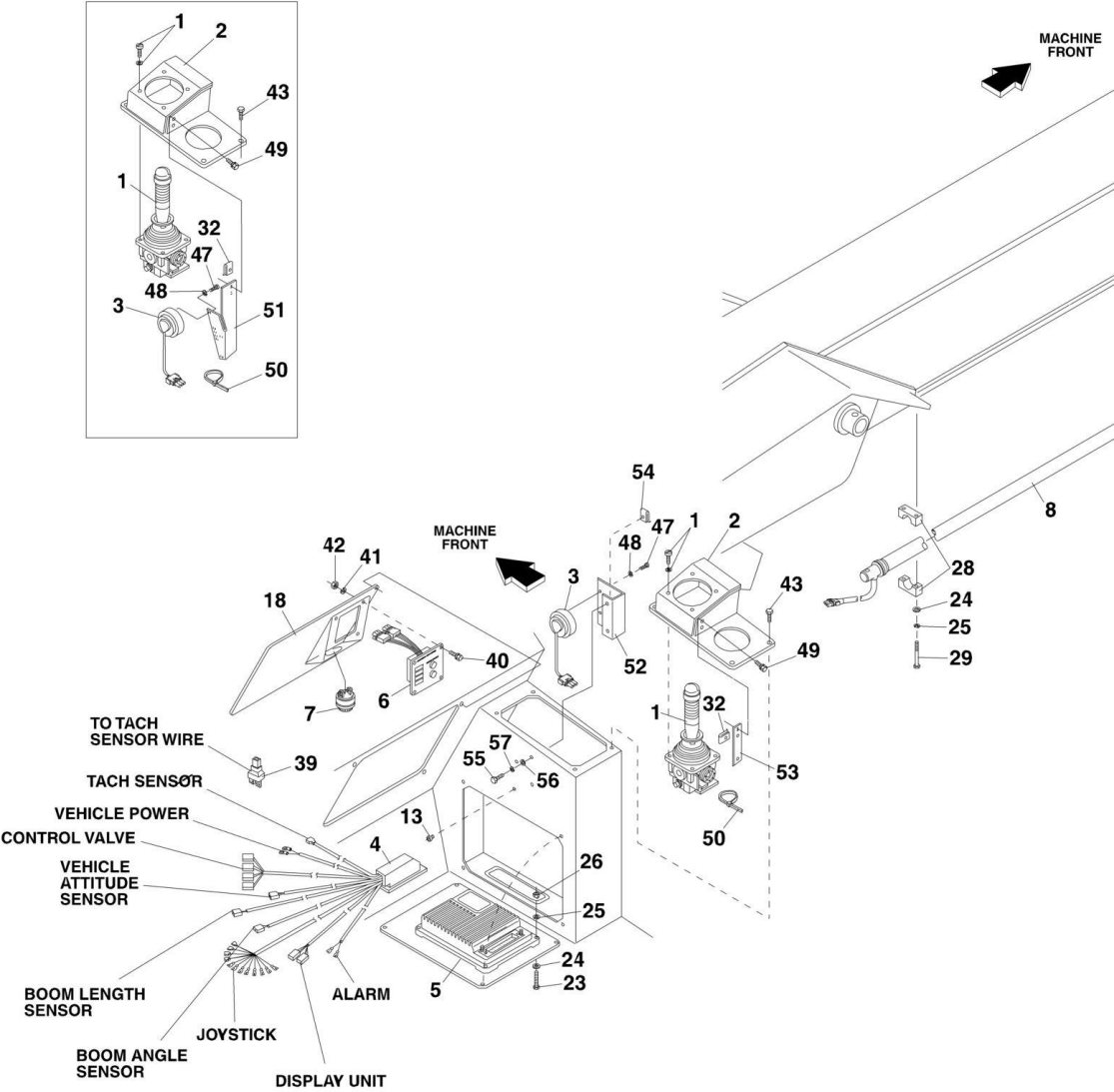
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-8. BOOM RAISE/LOWER AND BOOM EXTEND/RETRACT CONTROL (ELECTRONIC CONTROL JOYSTICK W/O TLC)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7087383	1	Electronic Control Joystick (Includes items 2 thru 5)	
2	8224016	1	Joystick, Electronic (See ELECTRICAL SECTION for Internal Breakdown)	
3	7086762	2	Module, Driver	
4	7086752	1	Harness, Wire	
5	7087361	2	Wire Assembly	
6	7089322	1	Harness, Wire	
7	7088533	1	Cover, Console	
8	7088952	1	Bracket	
9	8303119	2	Screw, Hex Flanged, 1/4-20 x .625	
10	8310001	2	Nut, Retainer, 1/4-20	
11	8310023	4	Screw, Mach Pan Hd, #4-40 x 1.25	
12	8307050	4	Lockwasher, #4	
13	8305049	4	Nut, Hex, #4-40	
14	8584001	1	Tie Wrap	
15	8584002	4	Tie Wrap	
16	8303932	1	Screw, Mach., Rd Hd, #10-24 x 1.25	
17	8305002	2	Nut, Hex, #10-24	
18	8307003	2	Lockwasher, #10	
19	8307111	2	Washer, Flat, #10	
20	8033058	4	Screw, Hex Hd Cap, 1/4-20 x 3/4	
21	8580313	4	Plug, 7/16	

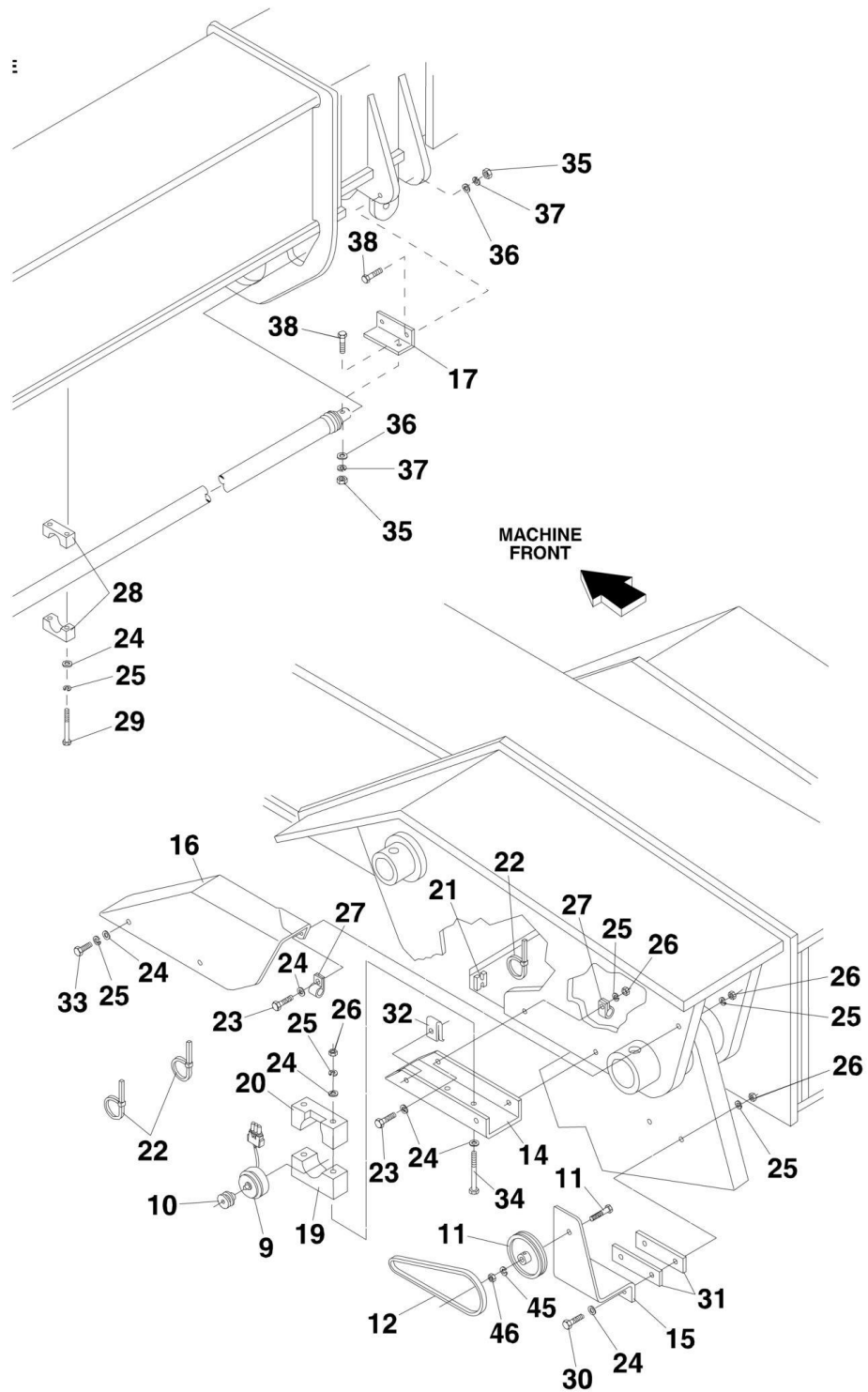
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-9. BOOM RAISE/LOWER AND BOOM EXTEND/ RETRACT CONTROL (RESISTIVE ELECTRONIC JOYSTICK W/TLC)



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FIGURE 2-9. BOOM RAISE/LOWER AND BOOM EXTEND/ RETRACT CONTROL (RESISTIVE ELECTRONIC JOYSTICK W/TLC)

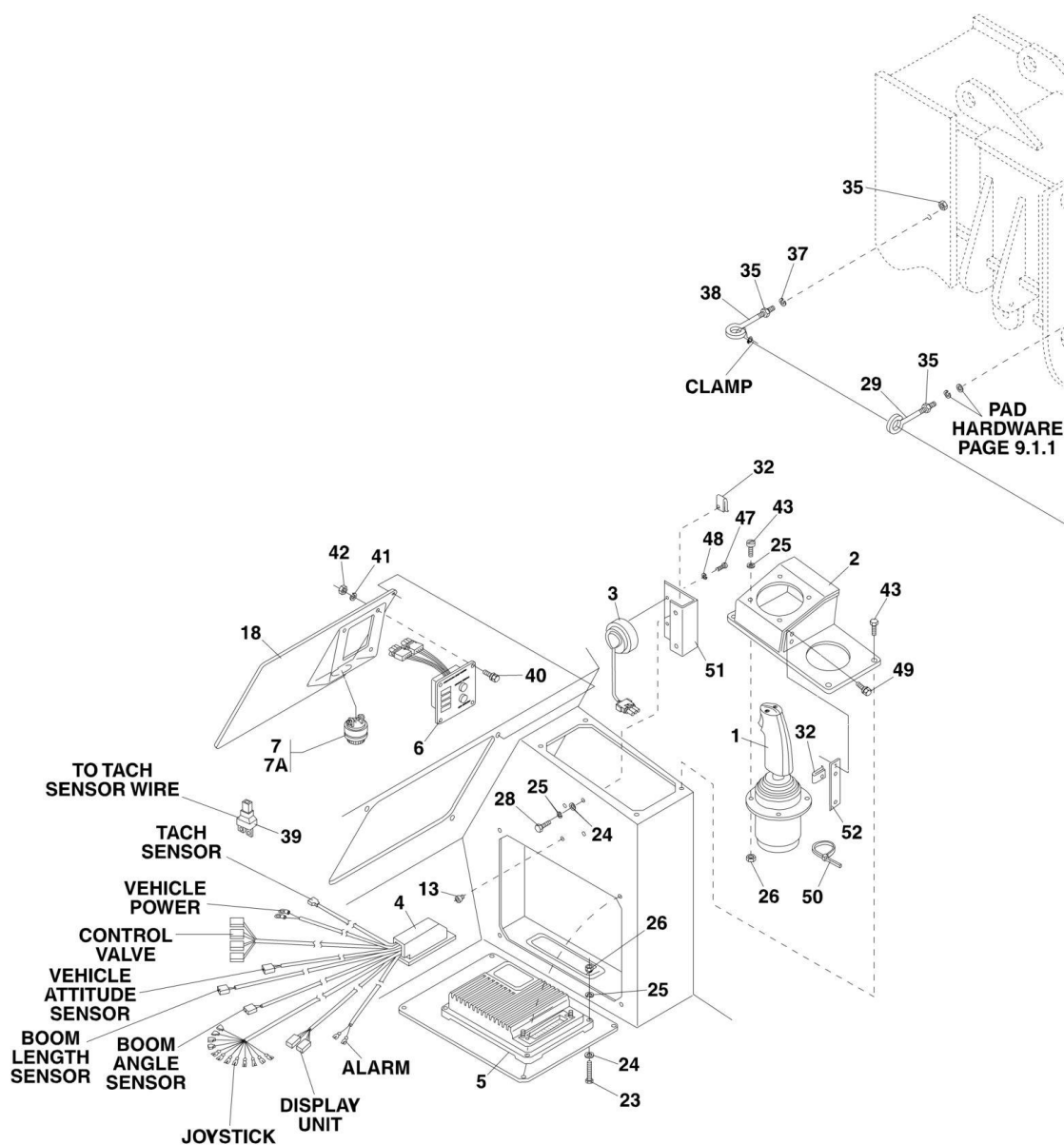
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8224016	1	Joystick, Electronic, w/ 50, Gate (See ELECTRICAL SECTION for Breakdown)	
2	7088533	1	Cover, Console	
3	7088232	1	Sensor, Vehicle Attitude	
4	7086772	1	Harness, Wire	
5	7089712	1	Controller, Electronic	
6	7088122	1	Display Unit	
7	7088202	1	Horn, Signal	
8	7088212	1	Sensor, Boom Length	
9	7088222	1	Sensor, Boom Angle	
10	7088242	1	Pulley, 0.30 Grooves	
11	7088252	1	Pulley, 0.120 Grooves	
12	7088262	1	Belt	
13	8580313	4	Plug, Trim	
14	7088042	1	Bracket, Boom Angle Sensor	
15	7088052	1	Bracket, Pulley	
16	7088062	1	Cover, Angle Sensor Bracket	
17	7088842	1	Bracket, Boom Length Sensor	
18	7088653	1	Panel, Lower Front	
19	7088081	1	Clamp, Half	
20	8769141	1	Clamp, Half	
21	8584018	1	Mount, Cable Tie	
22	8584002	8	Tie, Plastic	
23	8303615	5	Screw, Hex Hd Cap, 1/4-20 x 1.250 Gr 5	
24	8307202	17	Washer, Flat, 1/4	
25	8307002	15	Lockwasher, 1/4	
26	8305004	9	Nut, Hex, 1/4-20	
27	8406005	2	Support	
28	8769147	2	Clamp, Half	
29	8303703	4	Screw, Hex Hd Cap, 1/4-20 x 2.50 Gr 5	
30	8303090	2	Screw, Hex Hd Cap, 1/4-20 x 1-1/4 Gr 5	
31	7088161	2	Shim, Sensor Bracket	
32	8310001	4	Nut, Retainer, 1/4-20	
33	8310026	2	Screw, Hex Hd Cap, 1/4-20 x .75 Gr 5	
34	8310027	2	Screw, Hex Hd Cap, 1/4-20 x 3.25 Gr 5	
35	8305008	3	Nut, Hex, 3/8-16	
36	8307204	3	Washer, Flat, 3/8	
37	8307005	3	Lockwasher, 3/8	
38	8303679	3	Screw, Hex Hd Cap, 3/8-16 x 1.75 Gr 5	
39	8220060	1	Adapter	
40	8303981	4	Screw, Washer Hd Machine, 10-24 x .50	
41	8307003	4	Lockwasher, #10	
42	8305002	4	Nut, Hex, #10-24	
43	8033034	4	Screw, Truss Hd, Phillips, 1/4-20 x .75 (Black)	
44	8303739	1	Screw, Hex Hd Cap, 5/16-18 x 1-1/4 Gr 5	
45	8307004	1	Lockwasher, 5/16	
46	8305006	1	Nut, Hex 5/16-18	
47	8310022	2	Screw, Machine, #4-40 x 3/8	
48	8307050	2	Lockwasher, #4	

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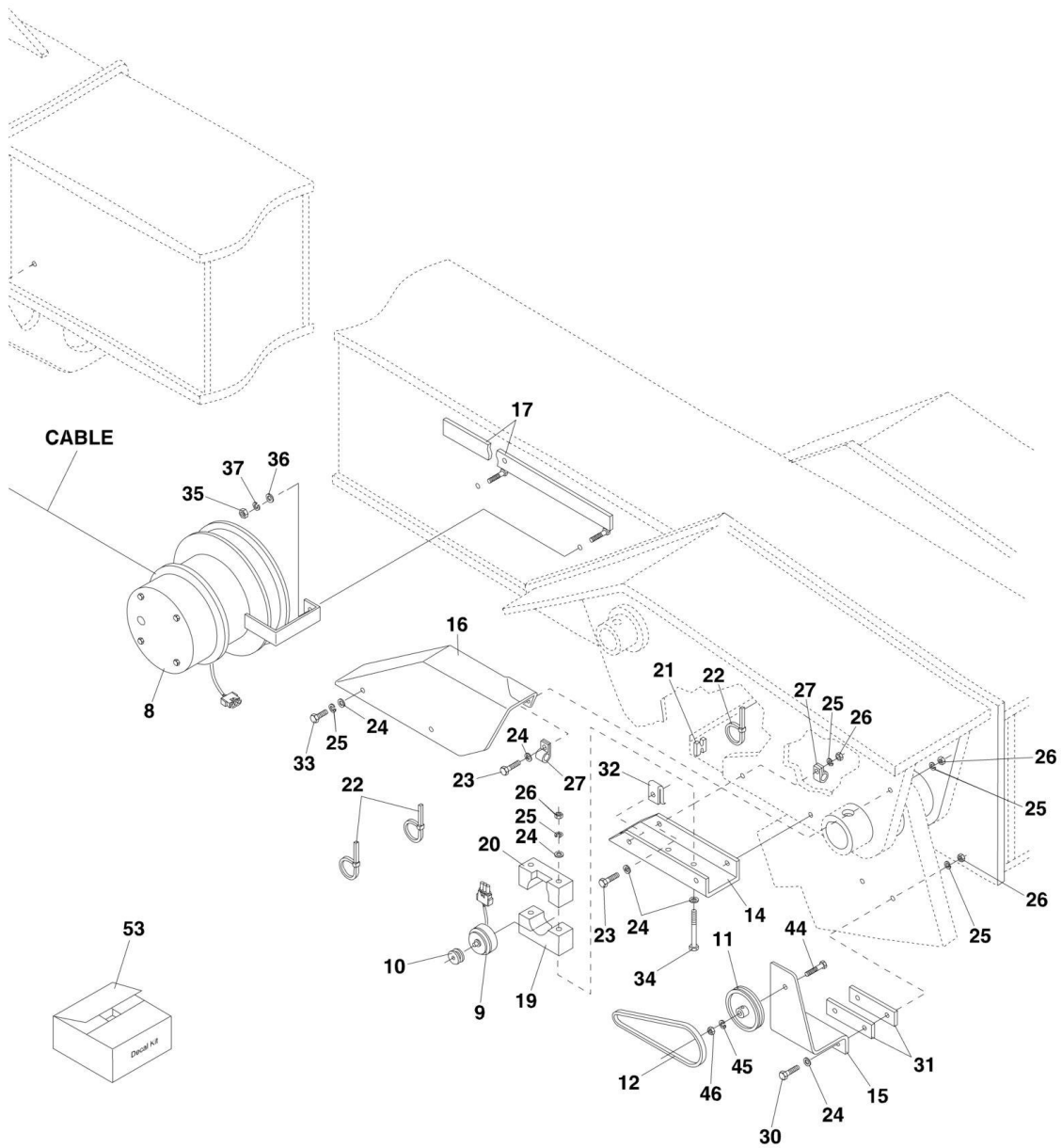
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	8303119	2	Screw, Flange Hex Hd, 1/4-20 x 0.625	
50	8584001	1	Tie Wrap	
		Ref	USED ON EARLY MODELS ONLY	
51	7090781	1	Conversion Kit, Attitude Sensor Mount (Includes items 52 thru 57)	
		Ref	USED ON LATER MODELS ONLY	
52	7090432	1	Bracket, Attitude Sensor Mount	
53	7090461	1	Support	
54	8310001	2	Nut, Retainer, 1/4-20	
55	8310026	2	Screw, Hex Hd Cap, 1/2-20 x 3/4 Gr5	
56	8307202	2	Washer, Flat 1/4	
57	8307002	2	Lockwasher, #4	

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FIGURE 2-10. BOOM RAISE/LOWER AND BOOM EXTEND/ RETRACT CONTROL (INDUCTIVE ELECTRONIC JOYSTICK W/TLC)



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FIGURE 2-10. BOOM RAISE/LOWER AND BOOM EXTEND/ RETRACT CONTROL (INDUCTIVE ELECTRONIC JOYSTICK W/TLC)

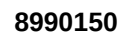
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8224024	1	Joystick, Electronic, Inductive with Trigger	
2	7088533	1	Cover, Console	
3	7088232	1	Sensor, Vehicle Attitude	
4	7086772	1	Harness, Wire	
5	7089712	1	Controller, Electronic	
6	7088122	1	Display Unit	
7	7088202	1	Horn, Signal	
7	7090031	1	Diode Assembly, Horn Suppression (Not Shown)	
8	7110922	1	Sensor, Boom Length (Includes Cable and Clamp)	
9	7088222	1	Sensor, Boom Angle	
10	7088242	1	Pulley, 0.30 Grooves	
11	7088252	1	Pulley, 0.120 Grooves	
12	7088262	1	Belt	
13	8580313	4	Plug, Trim	
14	7088042	1	Bracket, Boom Angle Sensor	
15	7088052	1	Bracket, Pulley	
16	7088062	1	Cover, Angle Sensor Bracket	
17	7110911	1	Bolt, Bar	
18	7088653	1	Panel, Lower Front	
19	7088081	1	Clamp, Half	
20	8769141	1	Clamp, Half	
21	8584018	1	Mount, Cable Tie	
22	8584002	8	Tie, Plastic	
23	8303615	5	Screw, Hex Hd Cap, 1/4-20 x 1.250 Gr 5	
24	8307202	19	Washer, Flat, 1/4	
25	8307002	21	Lockwasher, 1/4	
26	8305004	9	Nut, Hex, 1/4-20	
27	8406005	2	Support	
28	9310026	2	Screw, Hex Hd Cap, 1/4-20 x 3/4 Gr 5	
29	7112632	1	Eyebolt	
30	8303090	2	Screw, Hex Hd Cap, 1/4-20 x 1-1/4 Gr 5	
31	7088161	2	Shim, Sensor Bracket	
32	8310001	6	Nut, Retainer, 1/4-20	
33	8310026	2	Screw, Hex Hd Cap, 1/4-20 x 0.75 Gr 5	
34	8310027	2	Screw, Hex Hd Cap, 1/4-20 x 3.25 Gr 5	
35	8305008	5	Nut, Hex, 3/8-16	
36	8307204	3	Washer, Flat, 3/8	
37	8307005	3	Lockwasher, 3/8	
38	8310179	1	Eyebolt	
39	8220060	1	Adapter	
40	8303981	4	Screw, Washer Hd Machine, #10-24 x 0.50	
41	8307003	4	Lockwasher, #10	
42	8305002	4	Nut, Hex, #10-24	
43	8033034	6	Screw, Truss Hd, Phillips, 1/4-20 x 0.75 (Black)	
44	8303739	1	Screw, Hex Hd Cap, 5/16-18 x 1-1/4 Gr 5	
45	8307004	1	Lockwasher, 5/16	
46	8305006	1	Nut, Hex, 5/16-18	
47	8310022	2	Screw, Machine, #4-40 x 3/8	
48	8307050	2	Lockwasher, #4	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	8303119	2	Screw, Flange Hex Hd, 1/4-20 x 0.625	
50	8584001	1	Tie Wrap	
51	7090432	1	Bracket, Attitude Sensor Mount	
52	7090461	1	Support	
		Ref	KITS	
53	8224020	1	Harness/Sensor Kit (Includes Items 4, 6, 7, 7A & 9 thru 12	

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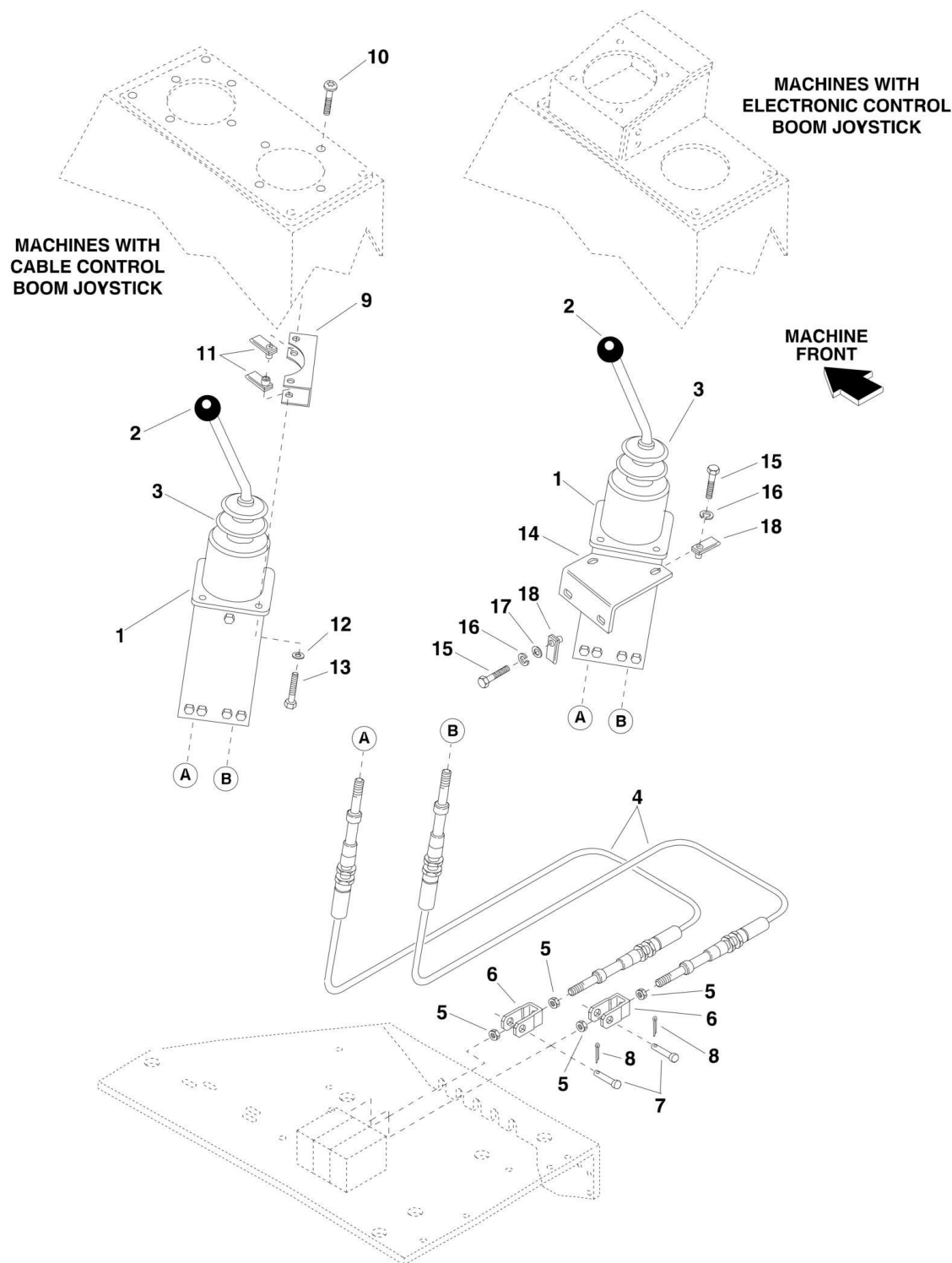
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-11. FRAME LEVEL AND ATTACHMENT TILT CONTROL (Prior to SN 9B0500)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8224026	1	Joystick (Includes Items 2 & 3)	
2	8580110	1	Knob	
3	8160419	1	Boot	
4	7098142	2	Bracket	
5	8303034	4	Screw, Truss Hd, Torx, 1/4-20 x 3/4	
6	8310001	8	Nut, Retainer, 1/4-20	
7	8307109	8	Washer, Flat, 1/4	
8	8303540	4	Screw, Hex Hd Cap, 1/4-20 x 1	
9	8160052	2	Cable, Control, 57in long	
10	8160615	2	Clamp	
11	8305402	2	Nut, Jam, 1/4-28	
12	8301439	2	Clevis (w/pin)	
13	8584003	2	Tie	

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FIGURE 2-12. FRAME LEVEL AND ATTACHMENT TILT CONTROL (SN 9B0500 to Present)



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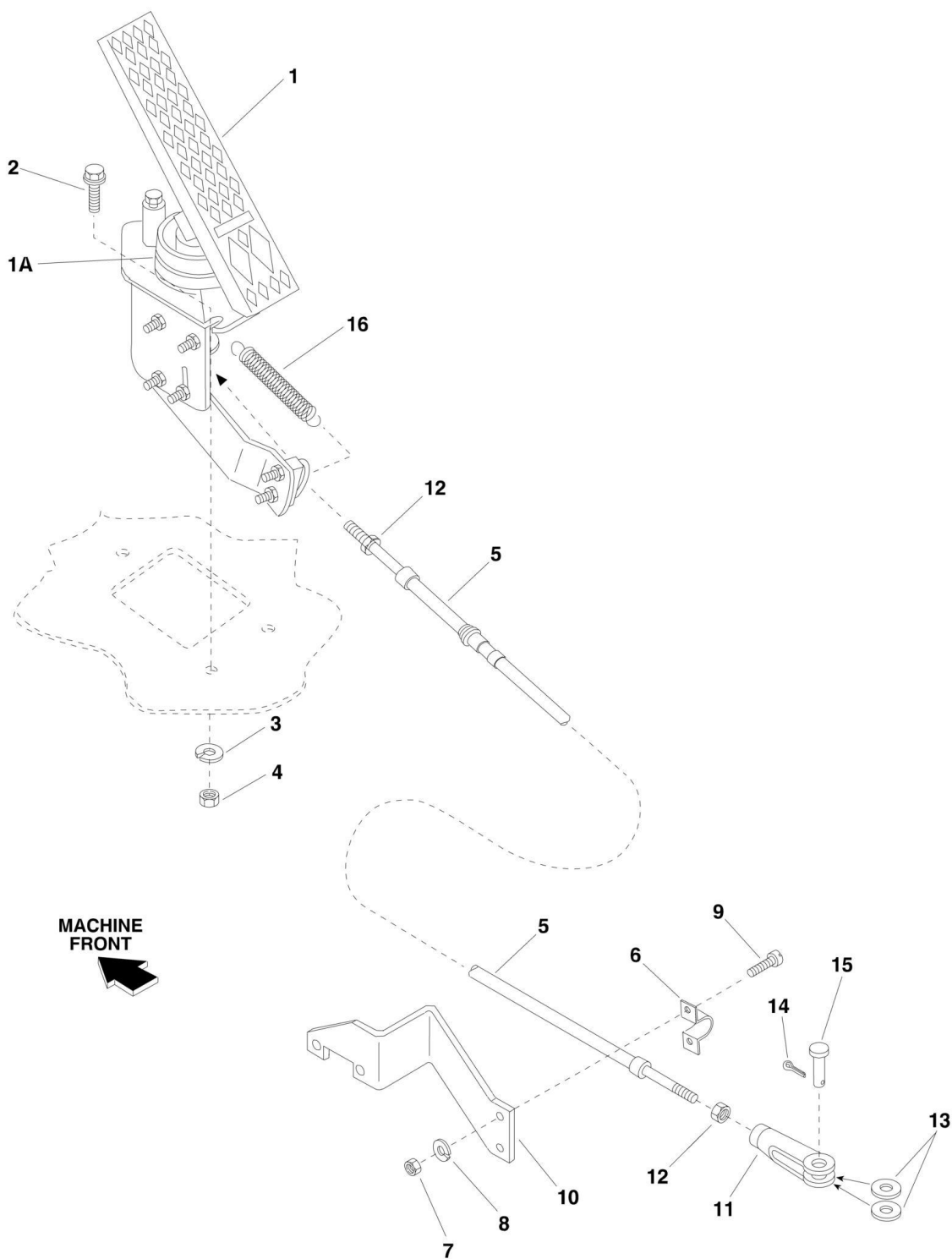
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-12. FRAME LEVEL AND ATTACHMENT TILT CONTROL (SN 9B0500 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8224026	1	Joystick (Includes Items 2 & 3)	
2	8580110	1	Knob	
3	8160419	1	Boot	
4	8160060	2	Cable, Control, 30in Long	
5	8305005	4	Nut, Hex 1/4-28	
6	8160617	2	Clevis, Cable	
7	8301443	2	Pin, Clevis, 3/16 x 1	
8	8302470	2	Pin, Hair, 1/16	
		Ref	FOR MACHINES WITH CABLE CONTROL BOOM JOYSTICK	
9	7098142	2	Bracket	
10	8303034	4	Screw, Truss Hd, Torx, 1/4-20 x 3/4	
11	8310001	8	Nut, Retainer 1/4-20	
12	8307109	4	Washer, Flat, 1/4	
13	8303540	4	Screw, Hex Hd Cap. 1/4-20 x 1	
		Ref	FOR MACHINES WITH ELECTRONIC CONTROL BOOM JOYSTICK	
14	7088942	2	Bracket	
15	8310026	8	Screw, Hex Hd Cap, 1/4-20 x 3/4, Gr 5	
16	8307002	8	Lockwasher, 1/4	
17	8307202	4	Washer, Flat, 1/4	
18	8310001	8	Nut, Retainer, 1/4-20	

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FIGURE 2-13. THROTTLE PEDAL CONTROL (PERKINS ENGINES)



PA0114

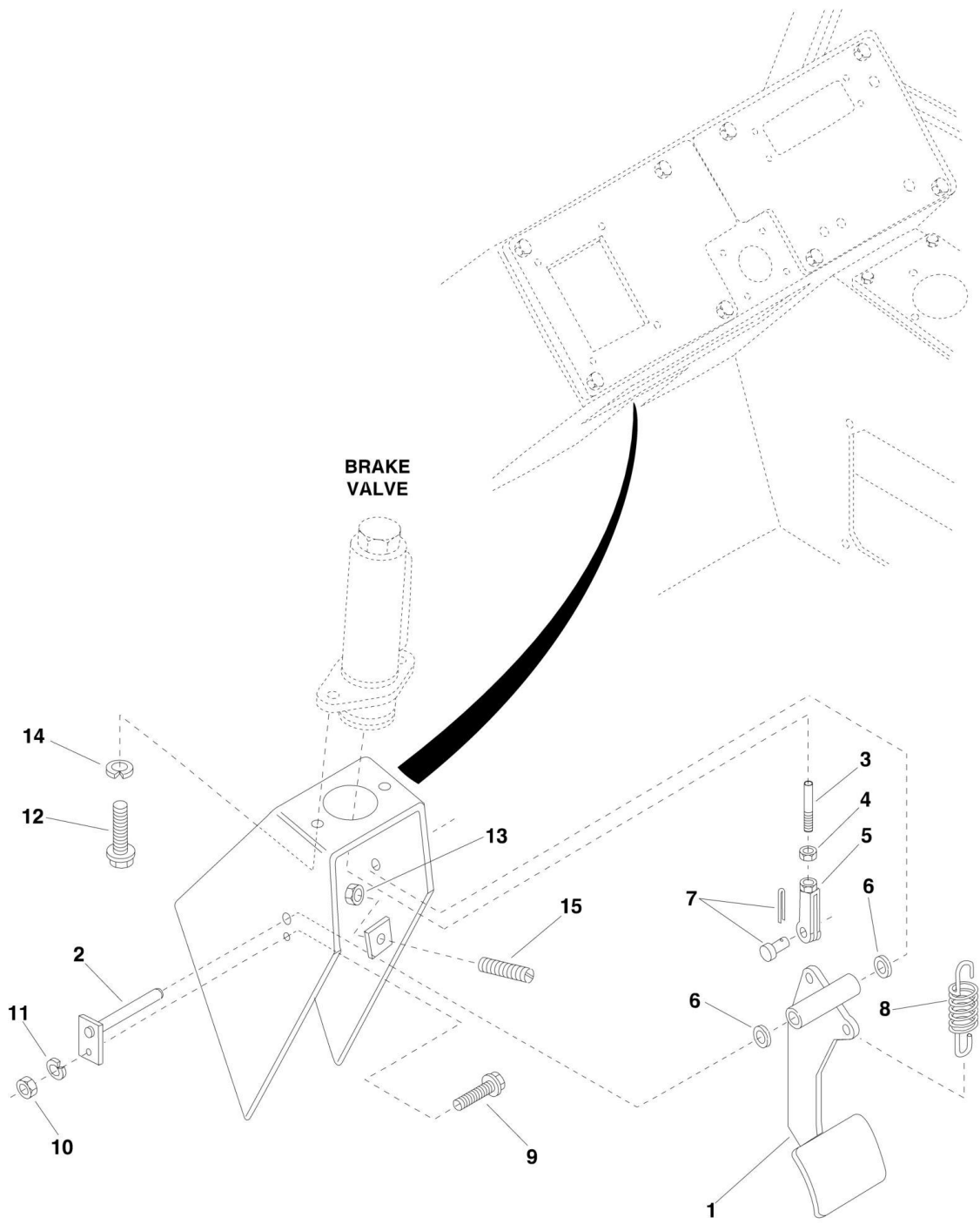
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-13. THROTTLE PEDAL CONTROL (PERKINS ENGINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8162003	1	Throttle Pedal	
1A	8033178	1	Bellows, Throttle Pedal	
2	8303742	1	Screw, Flange HD, 1/4-20X1-1/4, GR5	
3	8307002	2	Lockwasher, 1/4	
4	8305004	4	Nut, Hex 1/4-28	
5	8160053	2	Cable, Throttle	
6	8160610	2	Clamp, Cable	
7	8305002	2	Hex Nut, #10-24	
8	8307003	2	Lockwasher, #10	
9	8303837	2	Screw, Round Hd, #10-24 x 3/4	
10	7077782	1	Bracket, Throttle Cable	
11	8301002	1	Clevis, 1/4-28 x 2	
12	8305402	2	Nut, Jam, 1/4-28	
13	8307002	2	Washer, Flat, 1/4	
14	8302449	1	Pin, Cotter	
15	8301402	1	Pin, Yoke	
16	8700116	1	Spring, Return	

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FIGURE 2-14. SERVICE BRAKE PEDAL CONTROL



PA0126

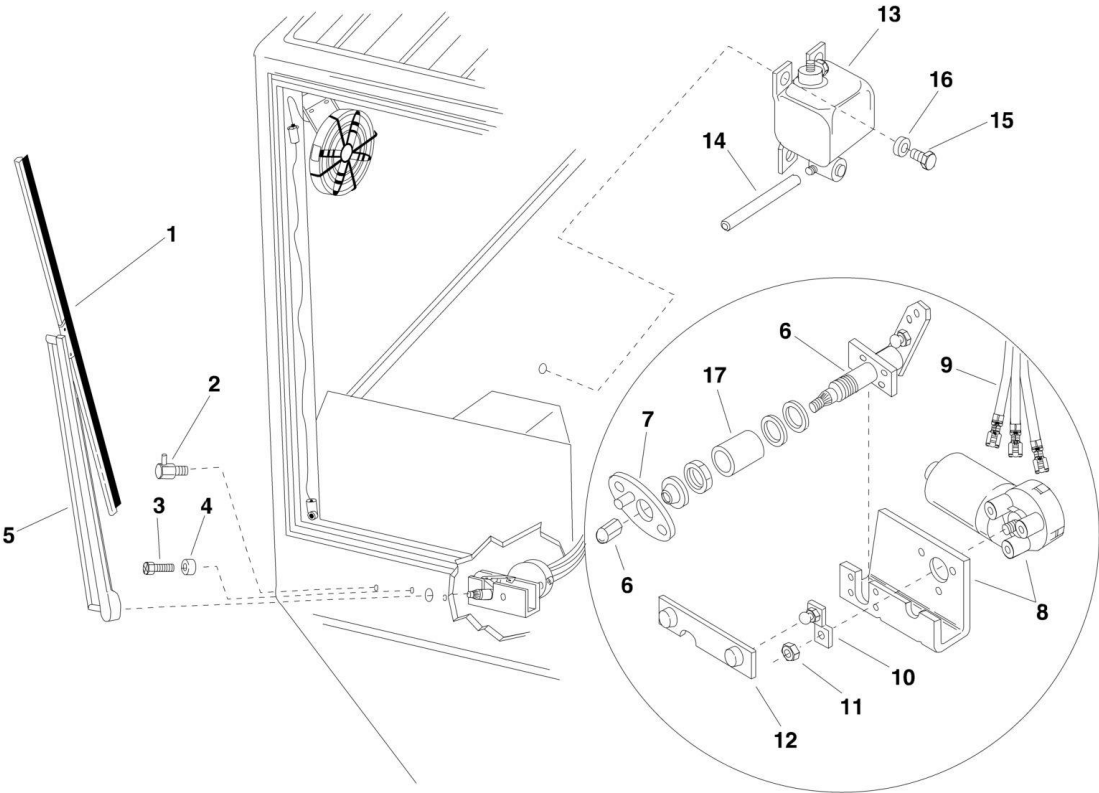
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-14. SERVICE BRAKE PEDAL CONTROL

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7111203	1	Pedal, Brake	
2	7081031	1	Shaft	
3	7080891	1	Rod, Push	
4	8305410	1	Nut, Jam, 1/2-20	
5	8301210	1	Yoke	
6	8307104	2	Washer, Flat, 3/4	
7	8301410	1	Pin, Clevis (w/cotter pin)	
8	8700120	1	Spring	
9	8303742	1	Screw, Flange Hd, 1/4-20 x 1-1/4	
10	8305004	1	Nut, Hex, 1/4-20	
11	8307002	1	Lockwasher, 1/4	
12	8303534	3	Screw, Flange Hd, 3/8-16 x 1-1/4	
13	8305405	1	Nut, Jam, 3/8-16	
14	8307005	2	Lockwasher, 3/8	
15	8310170	1	Setscrew, 3/8-16 x 1-3/4	

SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-15. WINDSHIELD WIPER (OPTIONAL CLOSED CAB ONLY)



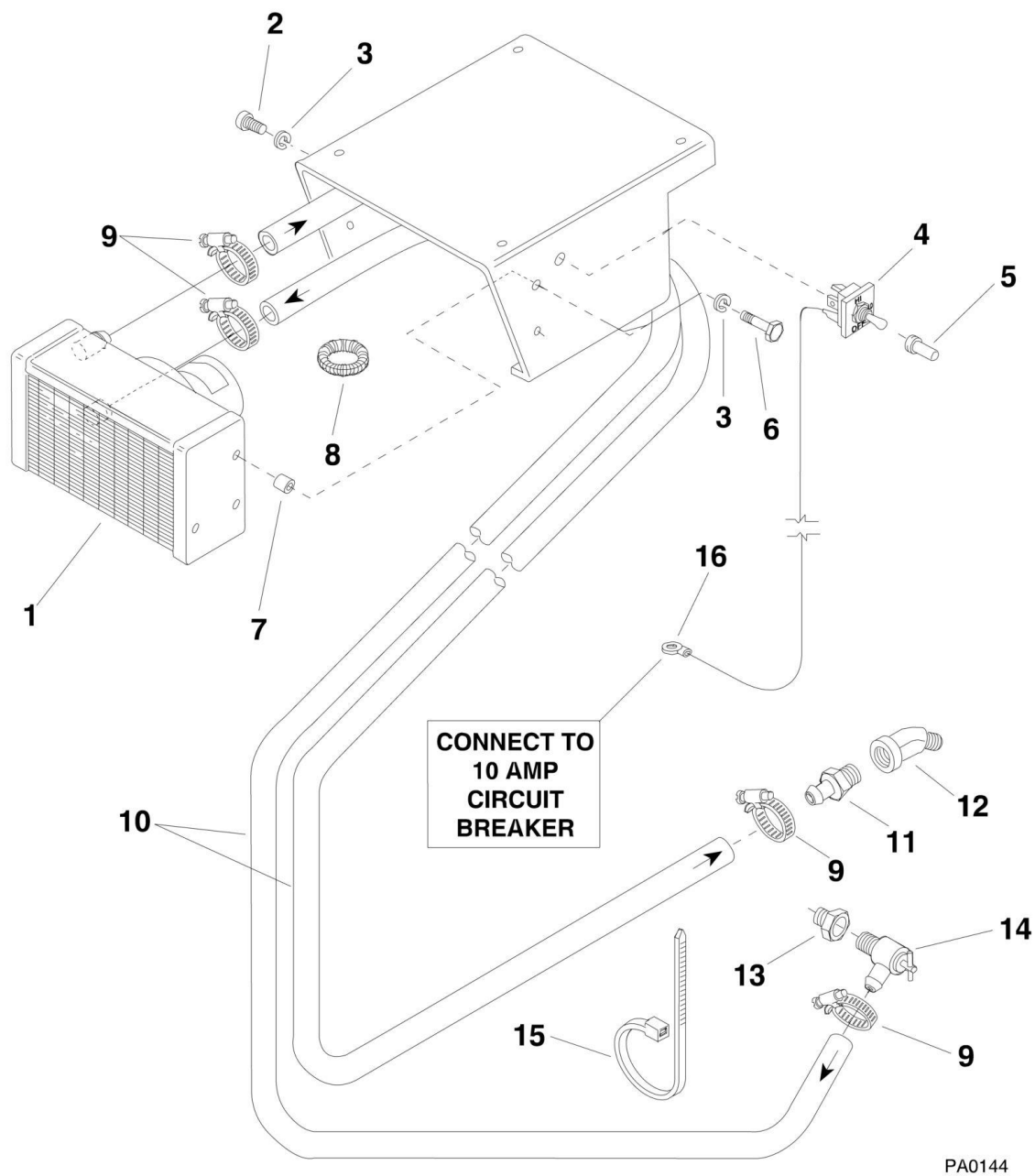
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-15. WINDSHIELD WIPER (OPTIONAL CLOSED CAB ONLY)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8866220	1	Blade, Wiper, 22in (Prior to SN 8L0328)	
1	8866381	1	Blade, Wiper, 22in (SN 8L0328 to Present)	
2	8033101	1	Nozzle, Washer	
3	8033110	2	Screw, 1/4-28 x 3/4	
4	8307109	2	Washer, Flat, 1/4	
5	8033106	1	Arm, Wiper, 22in (Prior to SN 8L0328)	
5	8866382	1	Arm, Wiper, 22in (SN 8L0328 to Present)	
6	8866492	1	Shaft and Pivot Assembly	
7	8033107	1	Adapter, Panto	
8	8033102	1	Motor Assembly, Wiper (Prior to SN 8L0328)	
8	7112511	1	Motor Assembly, Wiper (SN 8L0328 to Present)	
9	8033103	1	Cable, Wiper	
10	8866437	1	Arm, Drive	
11	8305006	1	Nut, Hex, 5/16-18	
12	8033104	1	Link, Connection	
13	8033065	1	Washer Reservoir Assembly	
14	8033075	1	Hose, Washer, 120in (Cut to fit)	
15	8303776	3	Bolt, Hex Hd, 1/4-20 x 1/2	
16	8307109	3	Washer, Flat, 1/4	
17	8033105	1	Spacer	

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FIGURE 2-16. CAB HEATER



PA0144

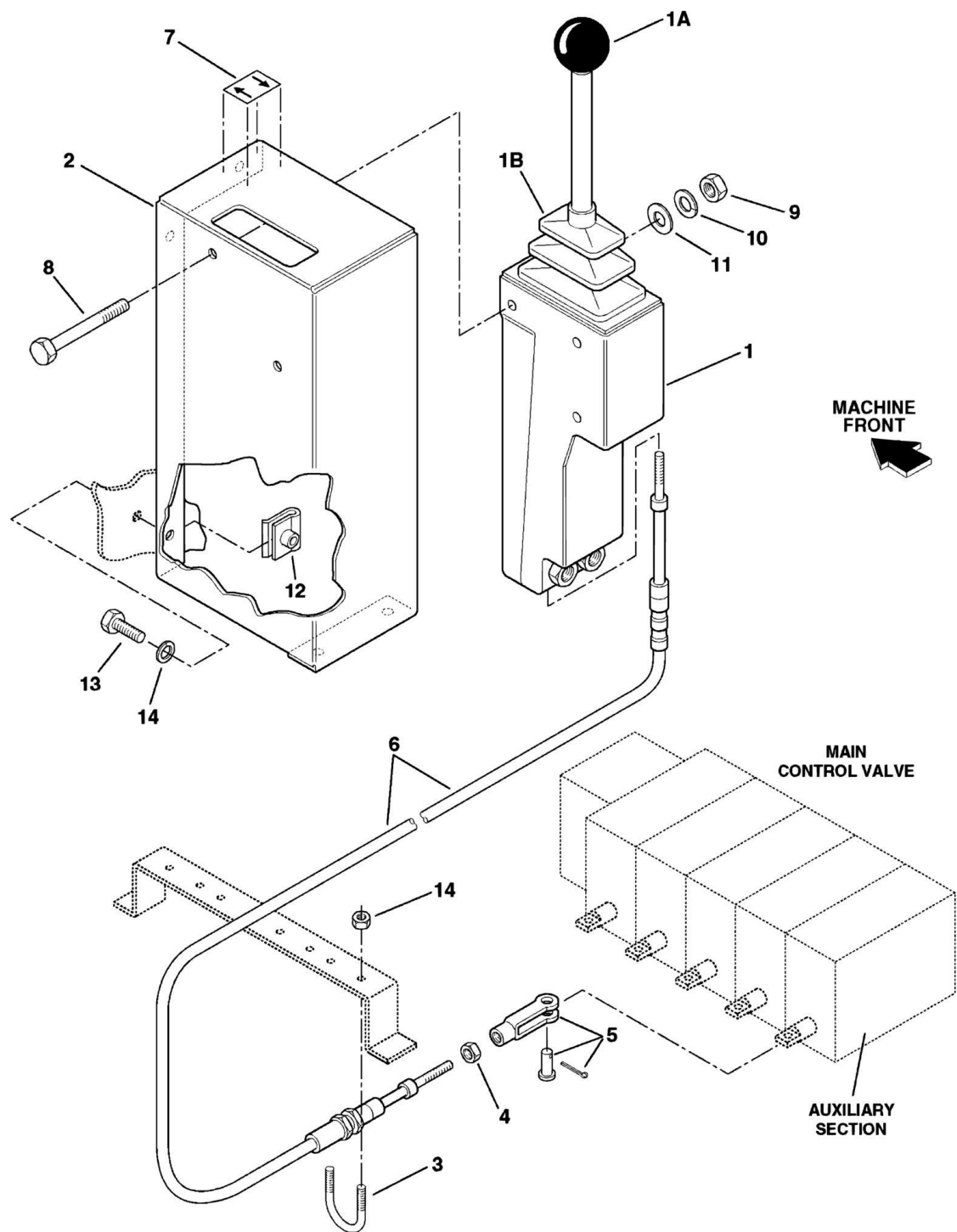
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-16. CAB HEATER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8360008	1	Heater (Includes Items 2 & 3)	
2		Ref	Screw, Hex Hd Cap, 1/4-20 x 1/2	
3		Ref	Lockwasher, 1/4	
4	8223024	1	Switch Kit	
5	8580309	1	Cap	
6	8303615	2	Screw, Hex Hd Cap, 1/4-20 x 1-1/4	
7	7772035-0008	2	Spacer, 3/4	
8	8221022-0600	2	Conduit, 1/4 ID x 5 Ft - Cut to Fit	
9	8405007	4	Clamp	
10	8401012-1340	2	Hose	
11	8420201	1	Hose Fitting, Low Pressure, Barbed, SAE 10-8P - Hose Size 10 x Male NPT	
12	8540231	1	Elbow, Street, 45, 1/2 NPT	
13	8540023	1	Bushing, Hex, 1/2 NPT x 3/8 NPT	
14	8360005	1	Valve, Shutoff	
15	8584001	4	Tie Wrap	
16	8220008	1	Terminal, #10	

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FIGURE 2-17. AUXILIARY HYDRAULIC CONTROL (OPTIONAL) (Prior to SN 9B0500)



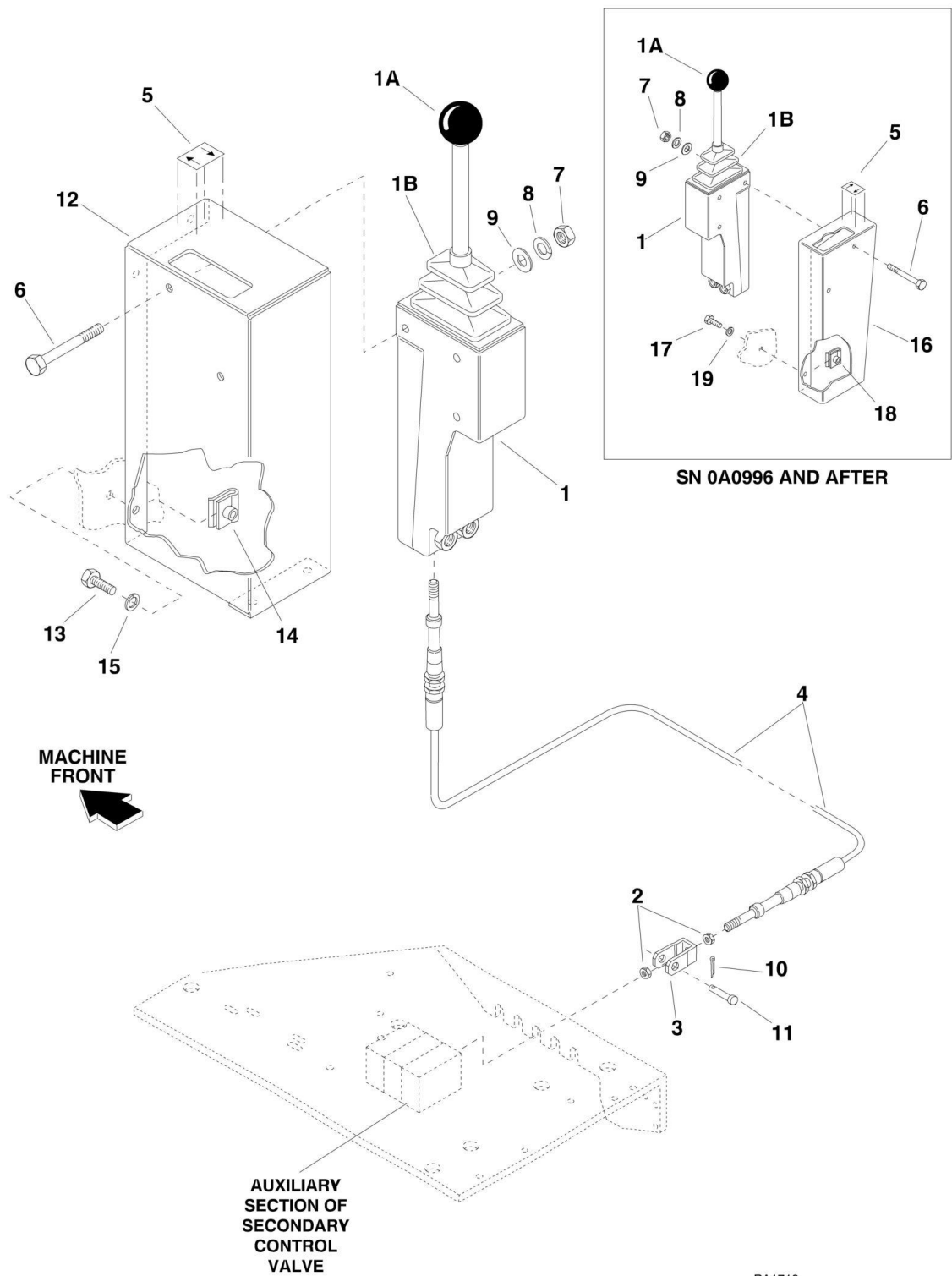
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-17. AUXILIARY HYDRAULIC CONTROL (OPTIONAL) (Prior to SN 9B0500)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8160406	1	Controller, Auxiliary Hydraulics (Includes Items 1A & 1B)	
1A	8580110	1	Knob	
1B	8160418	1	Boot	
2	7085403	1	Support, Controller	
3	8160615	1	Clamp	
4	8305402	1	Nut, Jam, 1/4-28	
5	8301439	1	Clevis Assembly	
6	8160052	1	Cable	
7	4105621	1	Decal	
8	8303758	2	Screw, Hex Hd Cap, 1/4-20 x 2	
9	8305004	2	Nut, Hex, 1/4-20	
10	8307002	2	Lockwasher, 1/4	
11	8307109	2	Washer, Flat, 1/4	
12	8305906	5	Nut, Retaining, 5/16 -18	
13	8303697	5	Screw, Hex Hd Cap, 5/16-18 x 3/4	
14	8307004	5	Lockwasher, 5/16	

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FIGURE 2-18. AUXILIARY HYDRAULIC CONTROL (OPTIONAL) (SN 9B0500 to Present)



PA1710

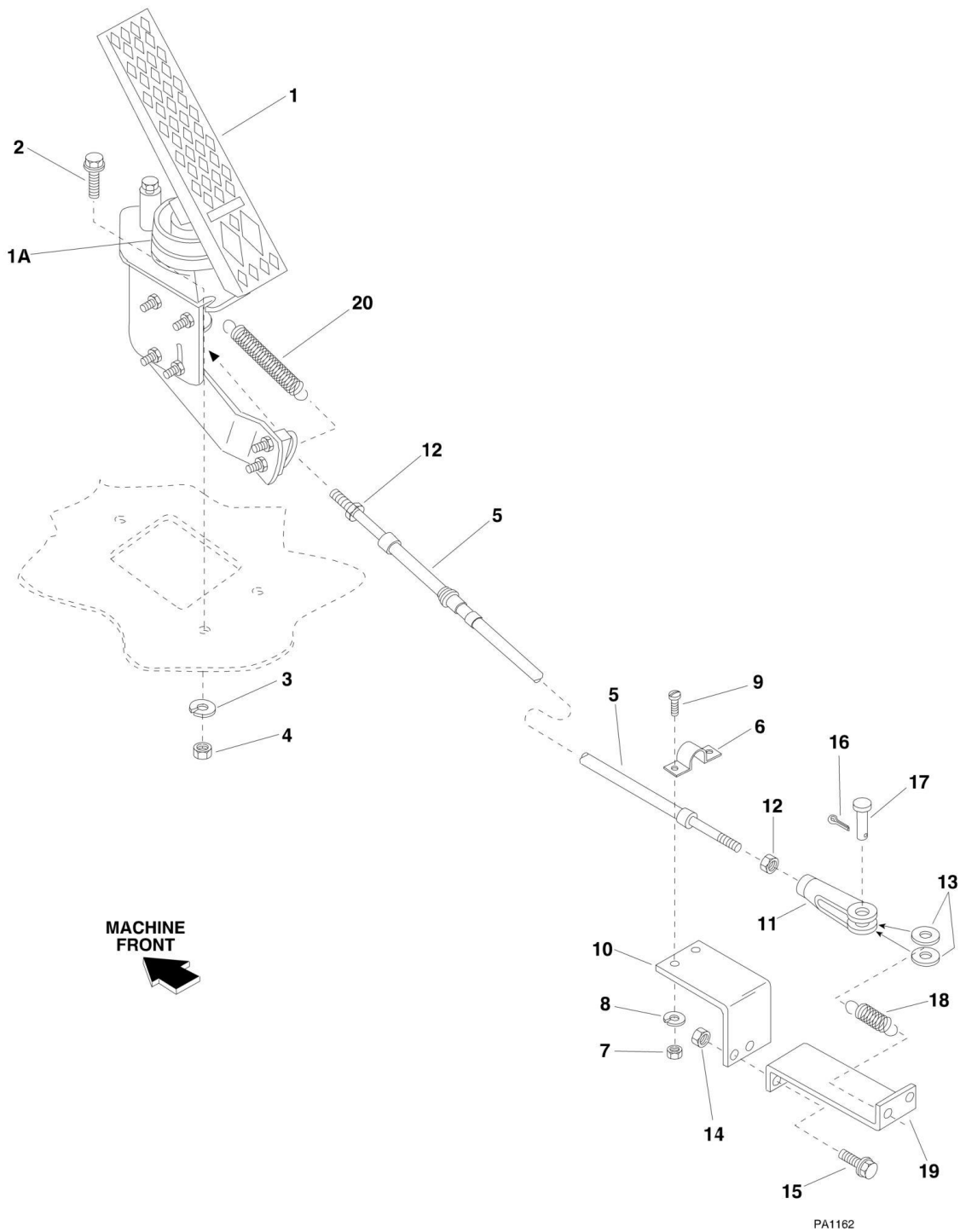
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-18. AUXILIARY HYDRAULIC CONTROL (OPTIONAL) (SN 9B0500 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8160406	1	Controller, Auxiliary Hydraulics (Includes Items 1A & 1B)	
1A	8580110	1	Knob	
1B	8160418	1	Boot	
2	8305005	2	Nut, Jam, 1/4-28	
3	8160617	1	Clevis, Cable	
4	8160059	1	Cable	
5	4105621	1	Decal	
6	8303758	2	Screw, Hex Hd Cap, 1/4-20 x 2	
7	8305004	2	Nut, Hex, 1/4-20	
8	8307002	2	Lockwasher, 1/4	
9	8307109	2	Washer, Flat, 1/4	
10	8302470	1	Pin, Hair	
11	8301443	1	Pin, Clevis	
12	7085403	1	Support, Controller (SN 9B0500 through 0A0995)	
13	8303697	5	Screw, Hex Hd Cap, 5/16-18 x 3/4 (SN 9B0500 through 0A0995)	
14	8305906	5	Nut, Retainer (SN 9B0500 through 0A0995)	
15	8307004	5	Lockwasher, 5/16 (SN 9B0500 through 0A0995)	
16	7091323	1	Support, Controller (SN 0A0996 to Present)	
17	8303697	3	Screw, Hex Hd Cap, 5/16-18 x 3/4 (SN 0A0996 to Present)	
18	8305906	3	Nut, Retainer (SN 0A0996 to Present)	
19	8307004	3	Lockwasher, 5/16 (SN 0A0996 to Present)	

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FIGURE 2-19. THROTTLE PEDAL CONTROL (CUMMINS ENGINES)



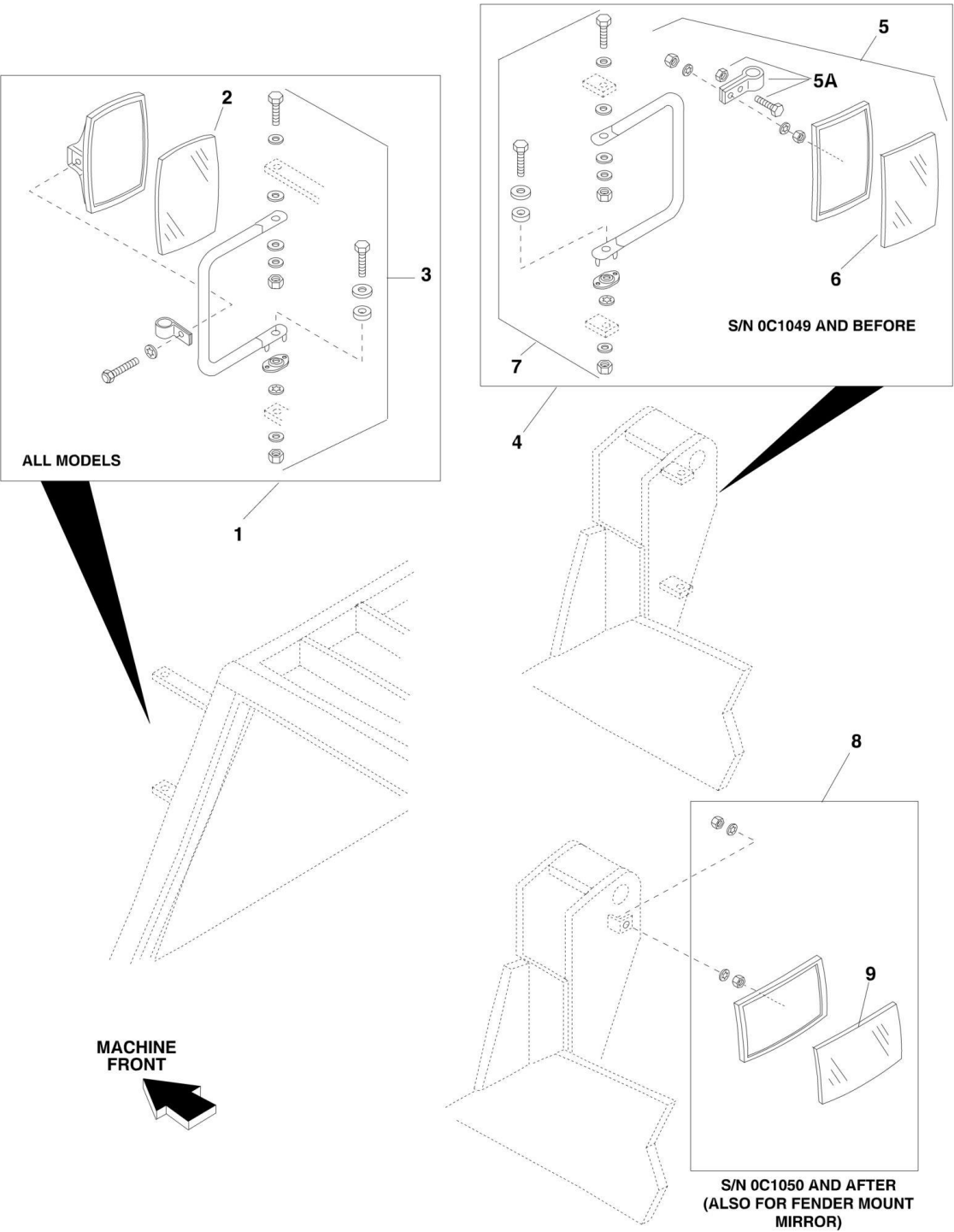
SECTION 2 - OPERATOR CAB AND CONTROLS

FIGURE 2-19. THROTTLE PEDAL CONTROL (CUMMINS ENGINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8162003	1	Pedal, Throttle (Includes Item 1A)	
1A	8033178	1	Bellows, Throttle Pedal	
2	8303742	3	Screw, Flange Hd, 1/4-20 x 1-1/4, Gr 5	
3	8307002	3	Lockwasher, 1/4	
4	8305004	3	Nut, Hex, 1/4-20	
5	8160053	1	Cable, Throttle	
6	8160610	1	Clamp, Cable	
7	8305002	2	Nut, Hex, #10-24	
8	8307003	2	Lockwasher, #10	
9	8303837	2	Screw, Round Hd, #10-24 x 3/4	
10	7088522	1	Bracket, Throttle Cable (Turbo)	
10	7088141	1	Bracket, Throttle Cable (Natural)	
11	8301002	1	Clevis, 1/4-28 x 2 (w/pin)	
12	8305402	2	Nut, Jam, 1/4-28	
13	8307109	3	Washer, Flat, 1/4	
14	8305624	2	Locknut, 1/4-20	
15	8303705	2	Screw, Flanged Hd, 1/4-20 x .75	
16	8302449	1	Pin, Cotter	
17	8301402	1	Pin, Yoke	
18	8702146	1	Spring, Extension (Natural Only)	
19	7097882	1	Bracket, Throttle Spring (Natural Only)	
20	8700116	1	Spring, Return	

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FIGURE 2-20. MIRRORS



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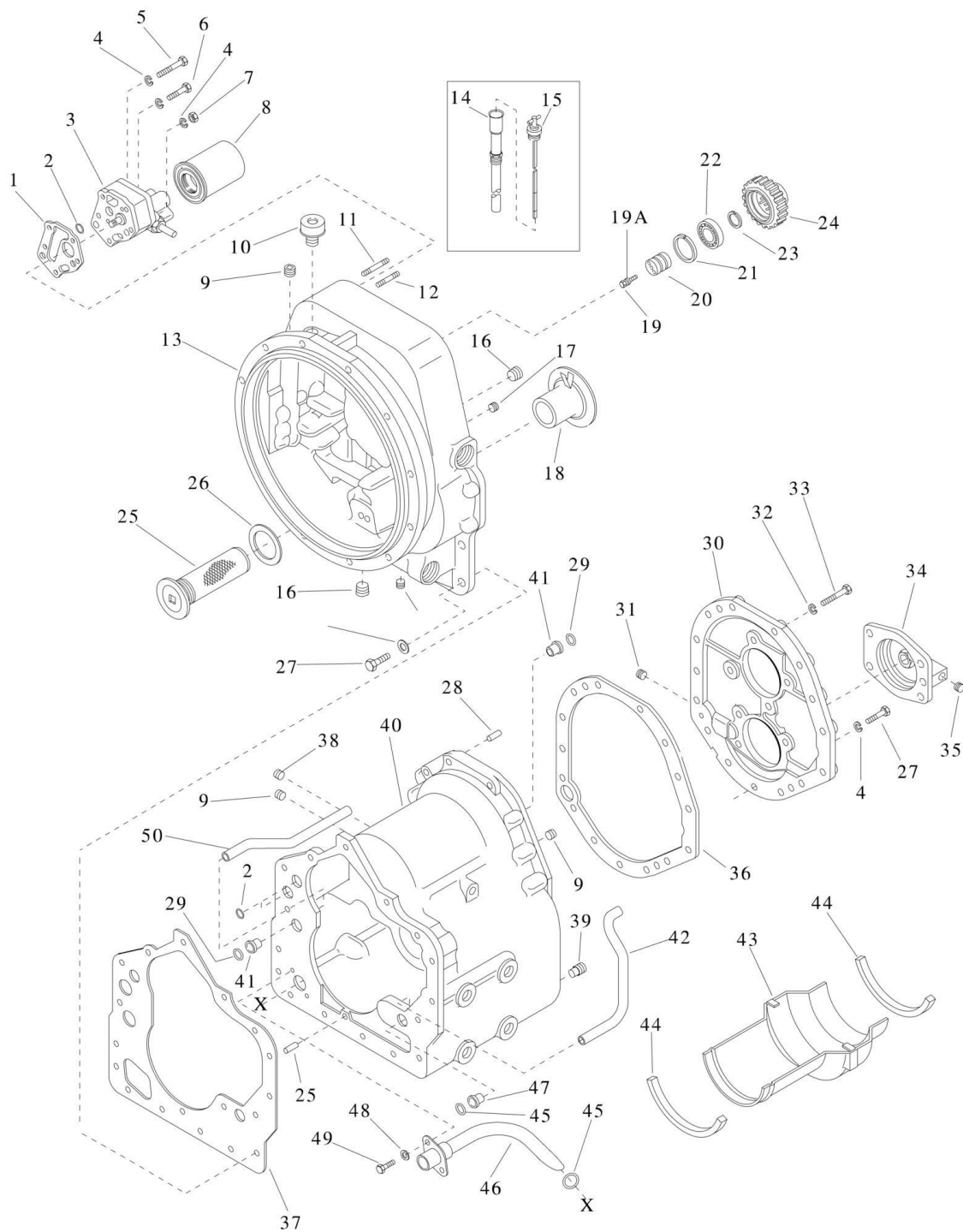
FIGURE 2-20. MIRRORS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8866347	1	Mirror Assembly, 6.5in x 10in, Left Side - Flat Glass (Includes Items 2 & 3)	
2	8866350	1	Lens, 6.5in x 10in Flat Glass Replacement	
3	8866364	1	Loop Assembly	
4	8866362	1	Mirror Assembly, 6.5in x 10in Right Side - Convex Glass (Includes items 5 thru 7) (Prior to SN 0C1050)	
5	7091852	1	Kit, Mirror Head - Convex, 6.5in x 10in (Includes item 5A)	
5A	8866349	1	Clamp Assembly	
6	8866351	1	Lens, 6.5in x 10in Convex Glass Replacement	
7	8866364	1	Loop Assembly	
8	8866348	1	Mirror Assembly, 6.5in x 10in Right Side - Convex Glass (Includes item 9) (SN 0C1050 to Present)	
9	8866351	1	Lens, 6.5in x 10in Convex Glass Replacement	
		Ref	Kit used as replacement for smaller 6.5in x 6in right side convex mirror for better right side visibility.	

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FIGURE 3-1. CONVERTER AND TRANSMISSION HOUSINGS



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FIGURE 3-1. CONVERTER AND TRANSMISSION HOUSINGS

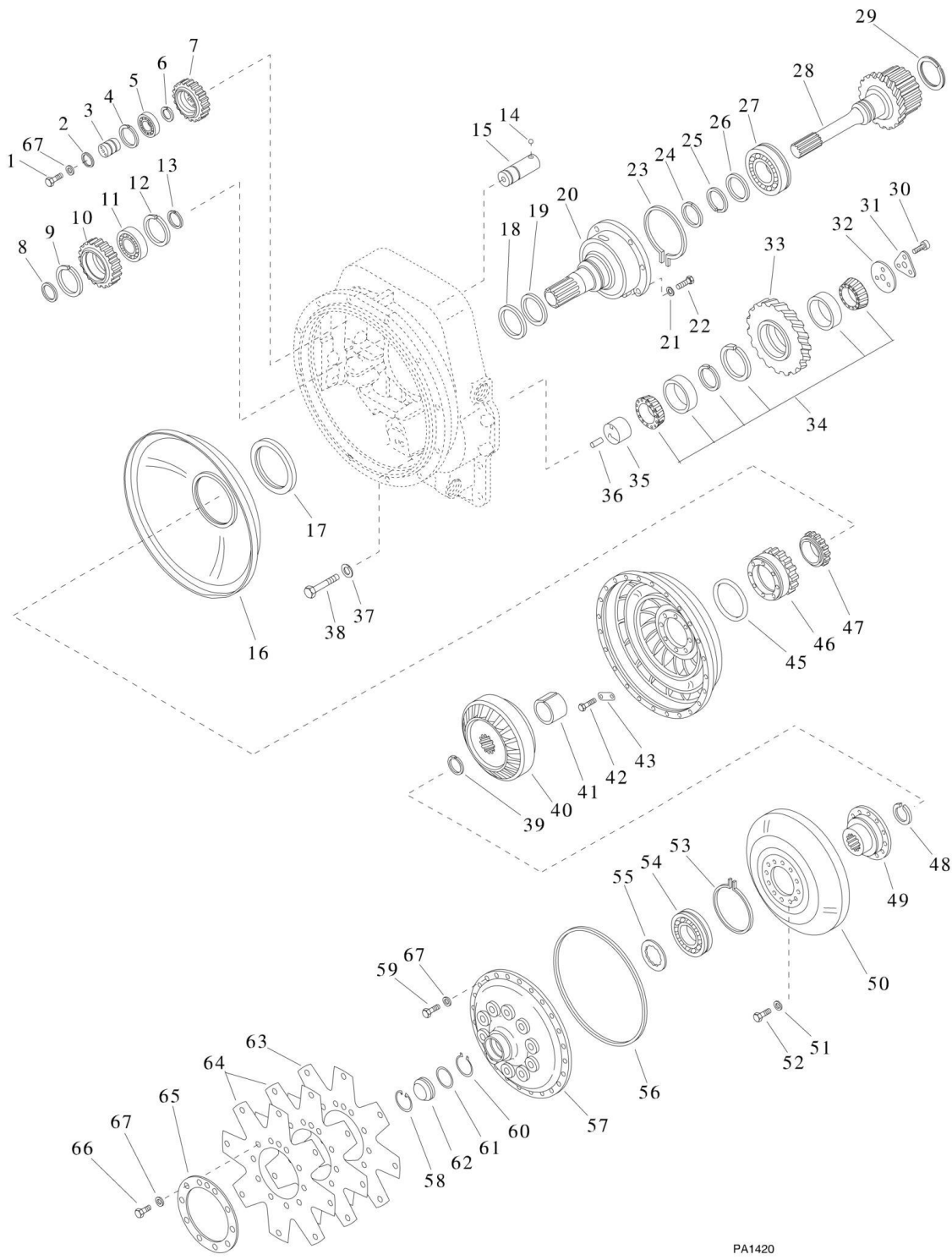
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8032500	1	Gasket, Charging Pump	
2	8032501	3	O-Ring	
3	8032502	1	Charging Pump Assembly	
4	8032503	27	Lockwasher	
5	8032504	1	Screw, Pump Mounting	
6	8032505	2	Screw, Pump Mounting	
7	8032506	2	Nut, Stud	
8	8320254	1	Filter Assembly	
9	8032508	3	Plug, Pipe	
10	8032509	1	Breather	
11	8032510	1	Stud, Pump Mounting	
12	8032511	1	Stud, Pump Mounting	
13	8032512	1	Housing, Converter	
14	8032513	1	Tube Assembly, Dipstick	
15	8032514	1	Dipstick	
16	8032515	2	Plug, Pipe	
17	8032516	2	Plug, Pipe	
18	8032517	1	Sleeve, Converter Housing	
19	8032541	2	Screw, Bearing Support	
19A	8307005	2	Lockwasher	
20	8032542	1	Support, Bearing	
21	8032543	1	Ring, Retaining	
22	8033199	1	Bearing	
23	8032545	1	Ring, Locating	
24	8032546	1	Gear, Pump Drive	
25	8032518	1	Screen Assembly	
26	8032519	1	Gasket, Screen	
27	8032520	22	Screw, Housing to Case	
28	8032521	3	Pin, Dowel	
29	8032523	3	O-Ring	
30	8032569	1	Rear Cover and Plug Assembly (Includes Item 31)	
31	8032516	1	Plug, Pipe	
32	8032503	9	Lockwasher	
33	8032524	9	Screw, Rear Cover to Case	
34	8032525	1	Bearing Cap Assembly, Rear, Low Shaft (Includes Item 35)	
35	8032526	1	Plug	
36	8032527	1	Gasket, Rear Cover to Case	
37	8032537	1	Gasket, Converter Housing to Case	
38	8032539	1	Plug, Pipe	
39	8032528	2	Plug, Magnetic Drain	
40	8032540	1	Case Assembly, Transmission (Includes Items 41 thru 50)	
41	8032522	2	Sleeve, Tube	
42	8032529	1	Tube, Clutch Lube	
43	8032530	1	Baffle, Oil	
44	8032531	2	Seal, Oil Baffle	
45	8032532	1	O-Ring	
46	8032533	1	Tube Assembly, Suction	
47	8033307	1	Sleeve, Tube	
48	8032535	2	Lockwasher	
49	8032536	2	Screw	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	8032538	1	Tube, Low Speed Clutch Pressure	

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FIGURE 3-2. CONVERTER GROUP (CLARK MODEL 12.2 HR18306-42 ONLY)



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FIGURE 3-2. CONVERTER GROUP (CLARK MODEL 12.2 HR18306-42 ONLY)

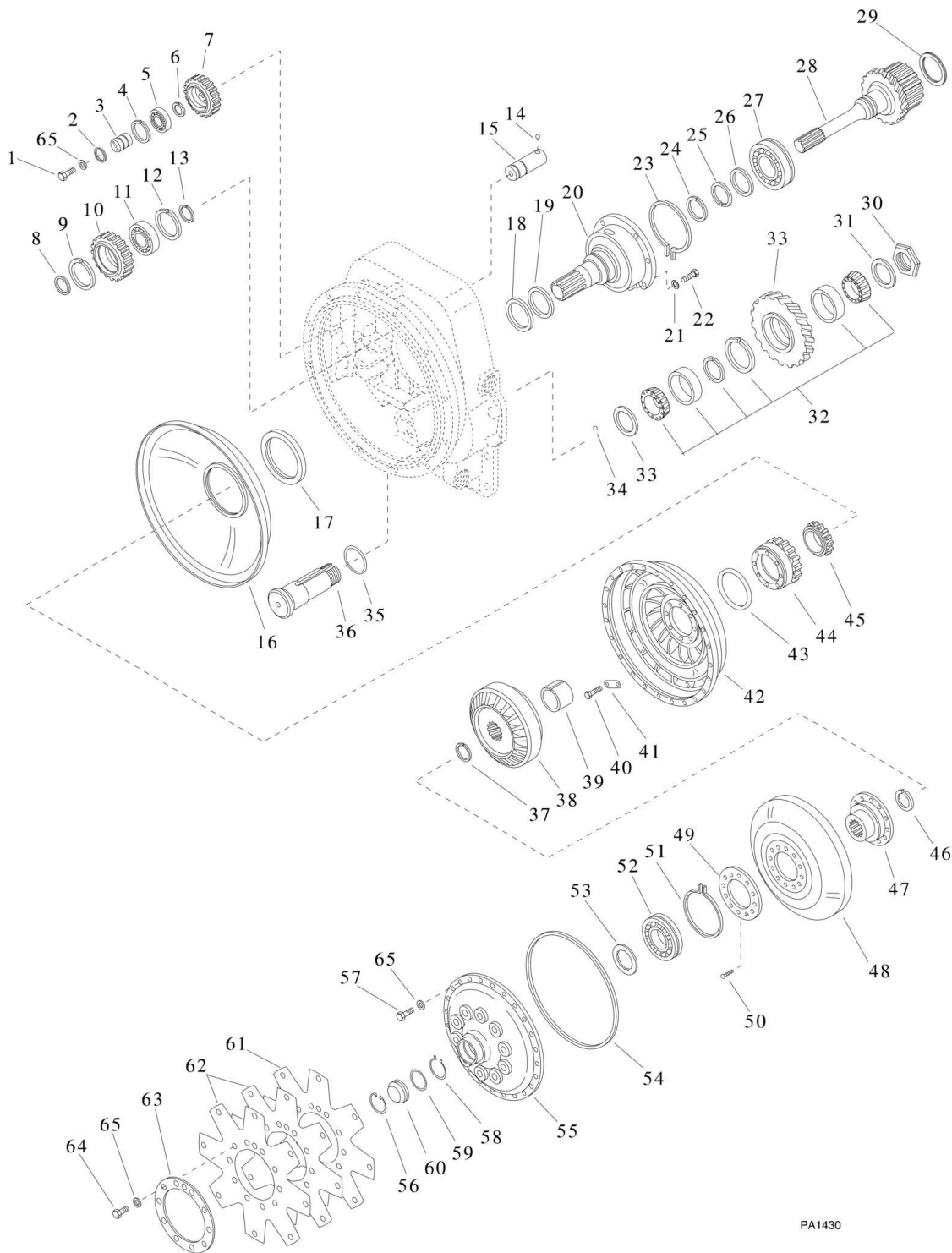
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8032541	2	Screw, Bearing Support	
2	8032545	1	Ring, Locating	
3	8032542	1	Support, Bearing	
4	8032550	1	Ring, Retaining	
5	8032551	1	Bearing	
6	8032545	1	Ring, Locating	
7	8032552	1	Gear, Pump Drive	
8	8032545	1	Ring, Locating	
9	8032543	1	Ring, Retaining	
10	8032553	1	Gear, Idler	
11	8033199	1	Bearing	
12	8032543	1	Ring, Retaining	
13	8032545	1	Ring, Locating	
14	8032554	1	Ball, Lock	
15	8032555	1	Shaft, Idler Gear Stub	
16	8032556	1	Baffle Assembly, Oil	
17	8032557	1	Seal, Oil	
18	8032558	1	Ring, Piston	
19	8032559	1	Spring, Piston Ring Expander	
20	8032560	1	Support, Stator	
21	8307005	6	Lockwasher	
22	8303620	6	Screw	
23	8032563	1	Ring, Snap	
24	8032564	1	Ring, Piston	
25	8032565	1	Ring, Retaining	
26	8032566	1	Washer, Locating	
27	8032567	1	Bearing, Turbine Shaft	
28	8032568	1	Turbine Shaft Assembly (Includes Item 29)	
29	8032620	1	Ring, Retaining	
30	8032570	3	Screw, Bearing Retaining Plate	
31	8032571	1	Plate, Lock	
32	8032572	1	Plate, Retaining	
33	8032573	1	Gear, Reverse Idler	
34	8032574	1	Bearing Assembly	
35	8032575	1	Shaft, Reverse Idler	
36	8032576	1	Pin, Shaft	
37	8032503	3	Washer, Lock	
38	8032577	3	Screw	
39	8032578	1	Ring, Retaining	
40	8032579	1	Reaction Member	
41	8032580	1	Spacer	
42	8032581	8	Screw	
43	8032582	4	Lock Tab	
44	8032583	1	Impeller	
45	8032584	1	O-Ring	
46	8032585	1	Gear, Impeller Hub	
47	8032586	1	Bearing	
48	8032587	1	Ring, Retaining	
49	8032588	1	Hub, Turbine	
50	8032589	1	Turbine	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
51	8032590	12	Washer	
52	8032591	12	Screw	
53	8032592	1	Ring, Locating	
54	8032593	1	Bearing	
55	8032594	1	Washer	
56	8032595	1	O-Ring	
57	8032596	1	Impeller Cover (Includes Item 58)	
58	8032600	1	Ring, Retaining	
59	8303620	24	Screw	
60	8032587	1	Ring, Retaining	
61	8032598	1	O-Ring	
62	8032599	1	Plug, Bore	
63	8032601	1	Drive Plate Assembly Kit (Includes Items 64, 65 & 66)	
64	N.S.S.	1	Drive Plate	
65	8032602	1	Ring, Backing	
66	8032603	10	Screw	
67	8307005	36	Lockwasher	

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FIGURE 3-3. CONVERTER GROUP (CLARK MODEL 12.2 HR18306-48, 12.2 HR18306-54 AND 12.2 HR18306-57 ONLY)



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FIGURE 3-3. CONVERTER GROUP (CLARK MODEL 12.2 HR18306-48, 12.2 HR18306-54 AND 12.2 HR18306-57 ONLY)

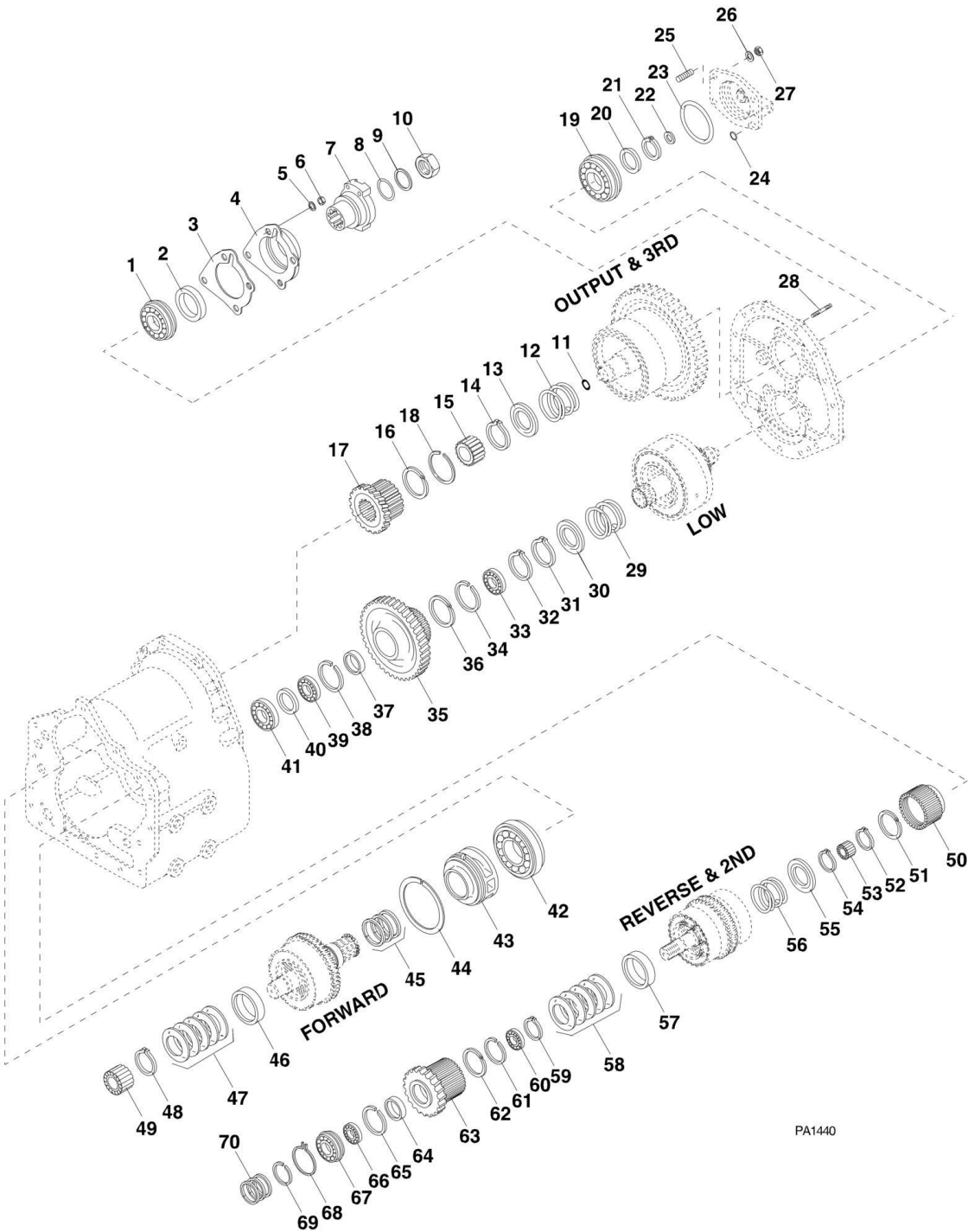
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8032541	2	Screw, Bearing Support	
2	8032545	1	Ring, Locating	
3	8032542	1	Support, Bearing	
4	8032550	1	Ring, Retaining	
5	8032551	1	Bearing	
6	8032545	1	Ring, Locating	
7	8032552	1	Gear, Pump Drive	
8	8032545	1	Ring, Locating	
9	8032543	1	Ring, Retaining	
10	8032553	1	Gear, Idler	
11	8033199	1	Bearing	
12	8032543	1	Ring, Retaining	
13	8032545	1	Ring, Locating	
14	8032554	1	Ball, Lock	
15	8032555	1	Shaft, Idler Gear Stub	
16	8032556	1	Baffle Assembly, Oil	
17	8032557	1	Seal, Oil	
18	8032558	1	Ring, Piston	
19	8032559	1	Spring, Piston Ring Expander	
20	8032560	1	Support, Stator	
21	8307005	6	Lockwasher	
22	8303620	6	Screw	
23	8032563	1	Ring, Snap	
24	8032564	1	Ring, Piston	
25	8032565	1	Ring, Retaining	
26	8032566	1	Washer, Locating	
27	8032567	1	Bearing, Turbine Shaft	
28	8032568	1	Turbine Shaft Assembly (Includes Item 29)	
29	8032620	1	Ring, Retaining	
30	8033195	1	Nut, Bearing Retaining Plate	
31	8033194	2	Thrust Plate, Reverse Idler Gear Bearing	
32	8032574	1	Bearing Assembly	
33	8032573	1	Gear, Reverse Idler	
34	8033192	1	Lockball, Idler Shaft	
35	8033191	1	O-Ring, Idler Shaft	
36	8033190	1	Shaft, Reverse Idler	
37	8032578	1	Ring, Retaining	
38	8032579	1	Reaction Member	
39	8032580	1	Spacer	
40	8032581	8	Screw	
41	8032582	4	Lock Tab	
42	8032583	1	Impeller	
43	8032584	1	O-Ring	
44	8032585	1	Gear, Impeller Hub	
45	8032586	1	Bearing	
46	8032587	1	Ring, Retaining	
47	8032588	1	Hub, Turbine	
48	8032589	1	Turbine	
49	8033196	1	Ring, Turbine	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	8033197	12	Screw	
51	8032592	1	Ring, Locating	
52	8032593	1	Bearing	
53	8032594	1	Washer	
54	8032595	1	O-Ring	
55	8032596	1	Impeller Cover (Includes Item 56)	
56	8032600	1	Ring, Retaining	
57	8303620	24	Screw	
58	8032587	1	Ring, Retaining	
59	8032598	1	O-Ring	
60	8032599	1	Plug, Bore	
61	8032601	1	Drive Plate Assembly Kit (Includes Items 62, 63 & 64)	
62	N.S.S.	1	Drive Plate	
63	8032602	1	Ring, Backing	
64	8032603	10	Screw	
65	8307005	36	Lockwasher	

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FIGURE 3-4. TRANSMISSION GEAR GROUP



PA1440

SECTION 3 - DRIVE TRAIN

FIGURE 3-4. TRANSMISSION GEAR GROUP

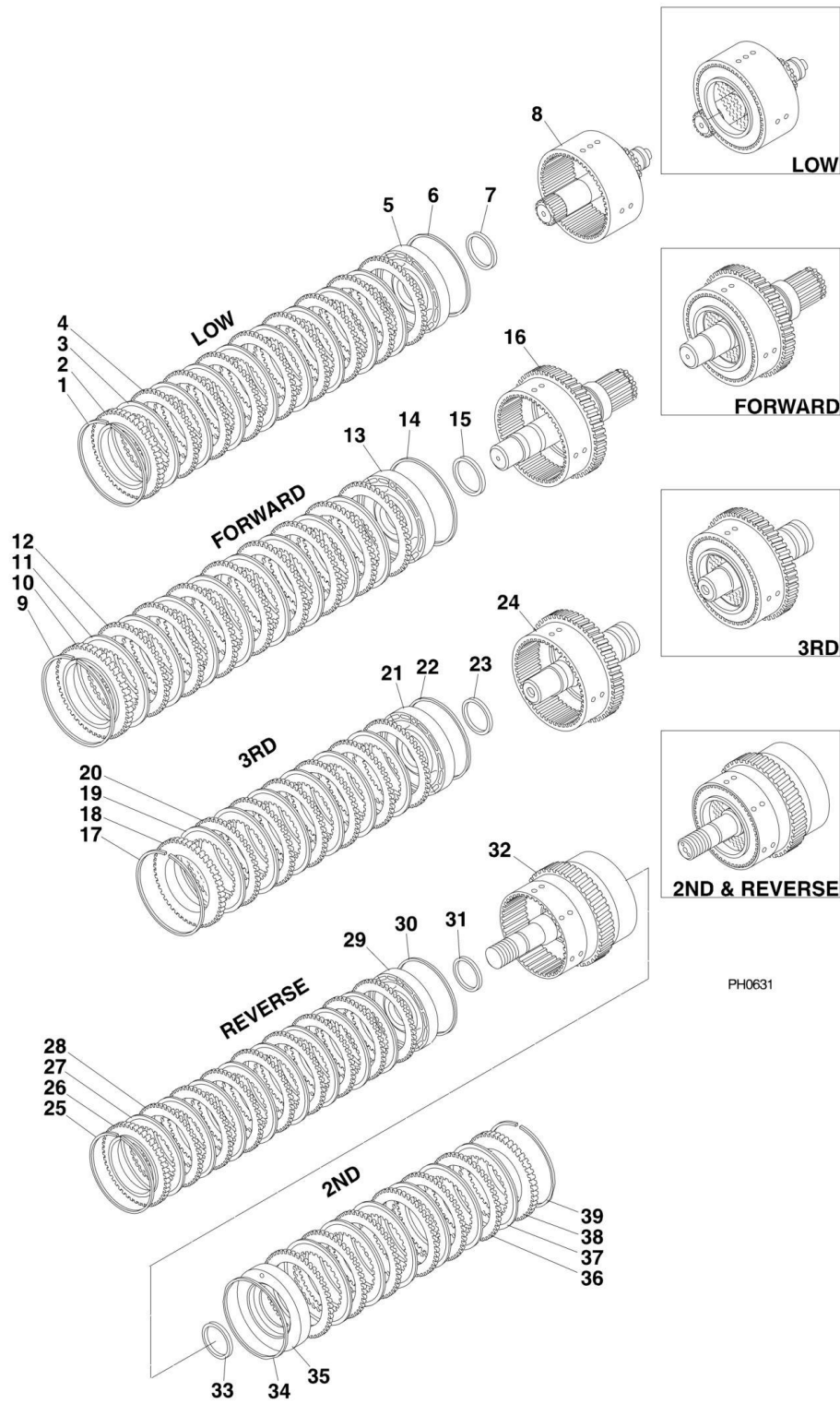
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8032604	1	Bearing	
2	8032605	1	Seal, Oil	
3	8032606	1	Gasket, Cap	
4	8032607	1	Cap,Bearing	
5	8032608	4	Lockwasher	
6	8032609	4	Nut, Stud	
7	8032610	1	Flange, Output (For Perkins 4.236 - Natural)	
7	8032950	1	Flange, Output (For all Perkins Turbo Engines and all Natural Engines only and all Cummins Engines) (SN 8L0355 to Present)	
8	8032611	1	O-Ring	
9	8032612	1	Washer, Flange	
10	8032613	1	Nut, Flange	
11	8032614	1	Ring, Piston	
12	8032615	1	Spring, Return	
13	8032616	1	Retainer	
14	8032617	1	Ring, Snap	
15	8032618	1	Bearing, Pilot	
16	8032620	1	Ring, Retaining	
17	8032621	1	3rd Gear and Hub Assembly (Includes Item 18)	
18	8032619	1	Ring, Retaining	
19	8032622	1	Bearing	
20	8032566	1	Washer	
21	8032623	1	Ring, Retaining	
22	8032614	1	Ring, Piston	
23	8032624	1	O-Ring	
24	8032625	1	O-Ring	
25	8032626	4	Stud, Cap	
26	8032503	4	Lockwasher	
27	8032506	4	Nut, Stud	
28	8032627	4	Stud, Cap	
29	8032615	1	Spring, Return	
30	8032616	1	Retainer	
31	8032617	1	Ring, Snap	
32	8032623	1	Ring, Retainer	
33	8032628	1	Bearing	
34	8032629	1	Ring, Locating	
35	8032630	1	Low Shaft Gear and Hub Assembly (Includes Item 36)	
36	8032620	1	Ring, Retaining	
37	8032631	1	Spacer	
38	8032629	1	Ring, Locating	
39	8032628	1	Bearing	
40	8032632	1	Spacer	
41	8032633	1	Bearing, Front	
42	8032634	1	Bearing, Rear	
43	8032635	1	Sleeve	
44	8033355	1	Ring, Retaining	
45	8032637	4	Ring, Piston	
46	8032638	1	Spacer	
47	8033348	1	Spring Set, Return (Includes 5 springs)	
48	8032640	1	Ring, Snap	

SECTION 3 - DRIVE TRAIN

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	8032641	1	Bearing, Pilot	
50	8032642	1	2nd Clutch Disc Hub Assembly (Includes Item 51)	
51	8032620	1	Ring, Retaining	
52	8032623	1	Ring Retaining	
53	8032643	1	Bearing	
54	8032617	1	Ring, Snap	
55	8032616	1	Retainer	
56	8032615	1	Spring, Piston	
57	8032638	1	Spacer	
58	8032639	5	Spring, Return	
59	8032640	1	Ring, Snap	
60	8032644	1	Bearing	
61	8032645	1	Ring, Retaining	
62	8032646	1	Reverse Clutch Gear Assembly (Includes Item 63)	
63	8032620	1	Ring, Retaining	
64	8032647	1	Spacer	
65	8032645	1	Ring, Retaining	
66	8032648	1	Bearing	
67	8032649	1	Bearing	
68	8032650	1	Ring, Snap	
69	8032651	1	Ring, Retaining	
70	8032652	3	Ring, Piston	

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FIGURE 3-5. TRANSMISSION CLUTCH GROUPS



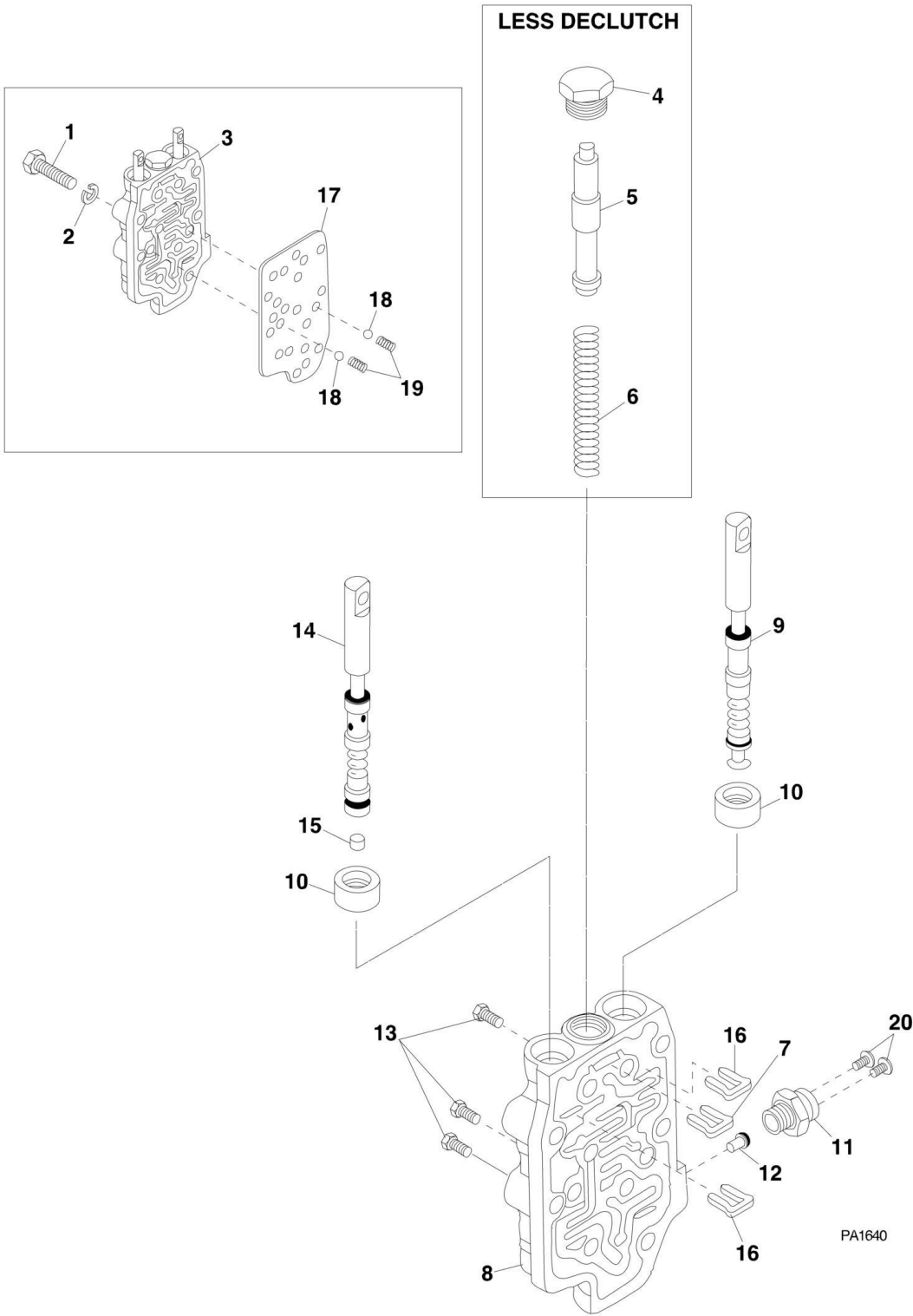
SECTION 3 - DRIVE TRAIN

FIGURE 3-5. TRANSMISSION CLUTCH GROUPS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8032653	1	Ring, Snap	
2	8032654	1	Plate, Backing	
3	8032655	8	Disc, Inner Clutch	
4	8032656	8	Disc, Outer Clutch	
5	8032657	1	Piston, Clutch	
6	8032658	1	Seal, Outer Piston	
7	8032659	1	Seal, Inner Piston	
8	8032660	1	Low Clutch Shaft, Drum and Bleed Valve Assembly	
9	8032653	1	Ring, Snap	
10	8032654	1	Plate, Backing	
11	8032661	8	Disc, Inner Clutch	
12	8032656	8	Disc, Outer Clutch	
13	8032657	1	Piston, Clutch	
14	8032658	1	Seal, Outer Piston	
15	8032659	1	Seal, Inner Piston	
16	8032662	1	Forward Shaft, Drum and Plug Assembly	
17	8032653	1	Ring, Snap	
18	8032654	1	Plate, Backing	
19	8032661	8	Disc, Inner Clutch	
20	8032656	8	Disc, Outer Clutch	
21	8032663	1	Piston Assembly, Clutch	
22	8032658	1	Seal, Outer Piston	
23	8032659	1	Seal, Inner Piston	
24	8032664	1	Output and 3rd Clutch Shaft, Drum and Plug Assembly	
25	8032653	1	Ring, Snap	
26	8032654	1	Plate, Backing	
27	8032661	8	Disc, Inner Clutch	
28	8032656	8	Disc, Outer Clutch	
29	8032657	1	Piston, Clutch	
30	8032658	1	Seal, Outer Piston	
31	8032659	1	Seal, Inner Piston	
32	8032665	1	Reverse and 2nd Shaft, Drum and Plug Assembly	
33	8032659	1	Seal, Inner Piston	
34	8032658	1	Seal, Outer Piston	
35	8032663	1	Piston Assembly, Clutch	
36	8032656	6	Disc, Outer Clutch	
37	8032661	6	Disc, Inner Clutch	
38	8032654	1	Plate, Backing	
39	8032653	1	Ring, Snap	

SECTION 3 - DRIVE TRAIN

FIGURE 3-6. CONTROL VALVE ASSEMBLY (Prior to SN 0E1180)



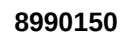
SECTION 3 - DRIVE TRAIN

FIGURE 3-6. CONTROL VALVE ASSEMBLY (Prior to SN 0E1180)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8032666	9	Screw	
2	8037005	9	Lockwasher	
3	8032667	1	Valve Assembly, Control (Includes Items 4 thru 8)	
4	8032671	1	Plug	
5	8032672	1	Spool, Valve	
6	8032673	1	Spring, Control Valve	
7	8032676	1	Stop, Control Valve	
8	8032679	1	Housing Assembly, Control Valve (Includes Items 9 thru 16)	
9	8032674	1	Spool, Forward and Reverse Valve	
10	8032675	2	Seal, Oil	
11	8032677	1	Switch, Neutral	
12	8032678	1	Pin, Switch Actuating	
13	8032680	3	Plug, Pipe	
14	8032682	1	Spool and Plug Assembly, Speed Selector (Includes Item 15)	
15	8032681	1	Plug	
16	8032676	2	Stop, Valve Spool	
17	8032668	1	Gasket, Control Valve	
18	8032669	2	Ball, Detent	
19	8032670	2	Spring, Detent	
20	8303987	2	Screw, Slotted Pan Head, 8-32 x 1/4	

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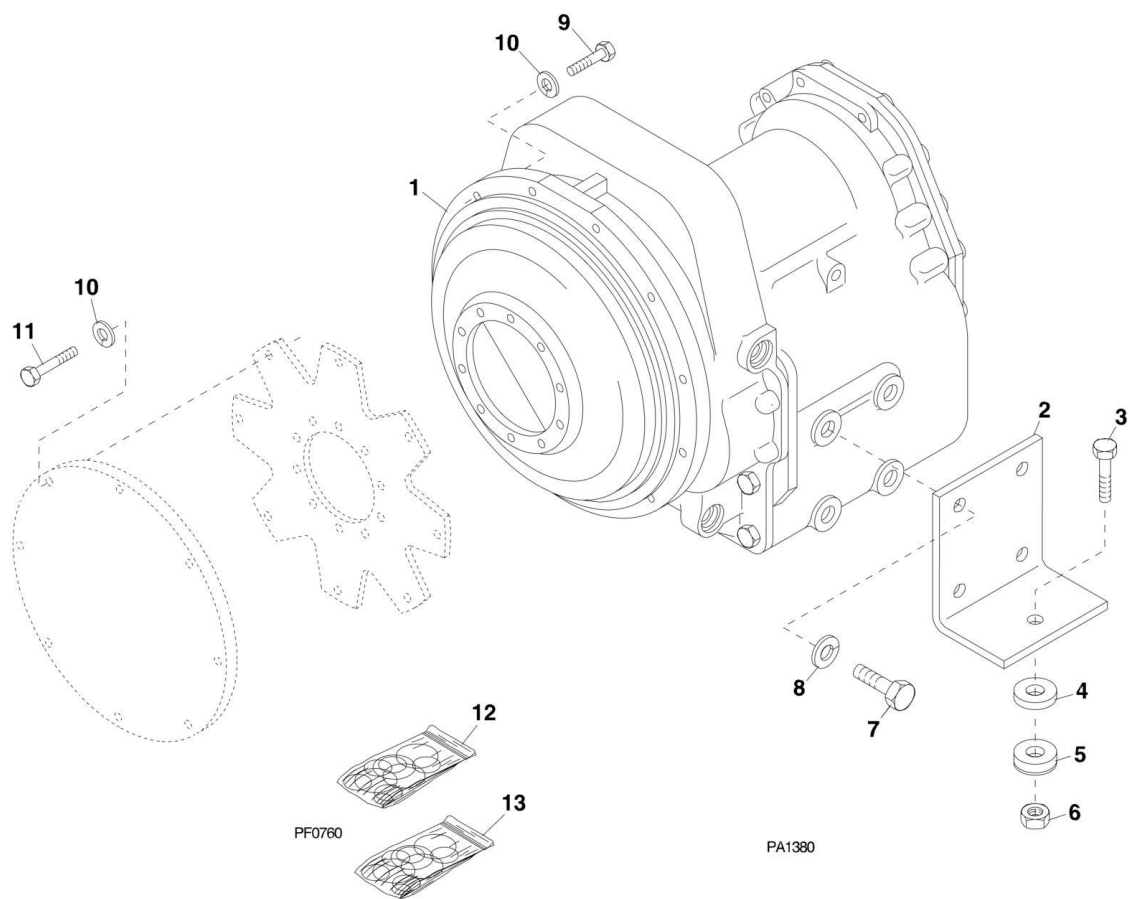
SECTION 3 - DRIVE TRAIN

FIGURE 3-7. CONTROL VALVE ASSEMBLY (SN 0E1180 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8032666	9	Screw	
2	8037005	9	Lockwasher	
3	8033239	1	Valve Assembly, Control (w/Declutch) (Includes Items 4 thru 7 & item 16)	
4	8032672	1	Spool, Valve	
5	8032673	1	Spring, Control Valve	
6	8032676	1	Stop, Valve Spool	
7	8032679	1	Housing Assembly, Control Valve (Includes Items 8 thru 15)	
8	8032674	1	Spool, Forward and Reverse Valve	
9	8032675	2	Seal, Oil	
10	8032677	1	Switch, Neutral	
11	8032678	1	Pin, Switch Actuating	
12	8032680	3	Plug, Pipe	
13	8032682	1	Spool and Plug Assembly, Speed Selector (Includes Item 14)	
14	8032681	1	Plug	
15	8032676	2	Stop, Valve Spool	
16	8841314	1	Actuator Assembly, Hydraulic (Includes Items 17 thru 21)	
17	8033202	1	O-Ring, Piston Housing	
18	8033203	1	Kit, Balance Spring and Pin	
19	8033204	1	Seal, Piston	
20	8033205	1	Piston	
21	8033238	1	Glyd Ring Assembly	
22	8032668	1	Gasket, Control Valve	
23	8032669	2	Ball, Detent	
24	8032670	2	Sprin, Detent	
25	8303987	2	Screw, Slotted Pan Head, 8-32 x 1/4	

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FIGURE 3-8. TRANSMISSION MOUNTING (Prior to SN 9H0794)



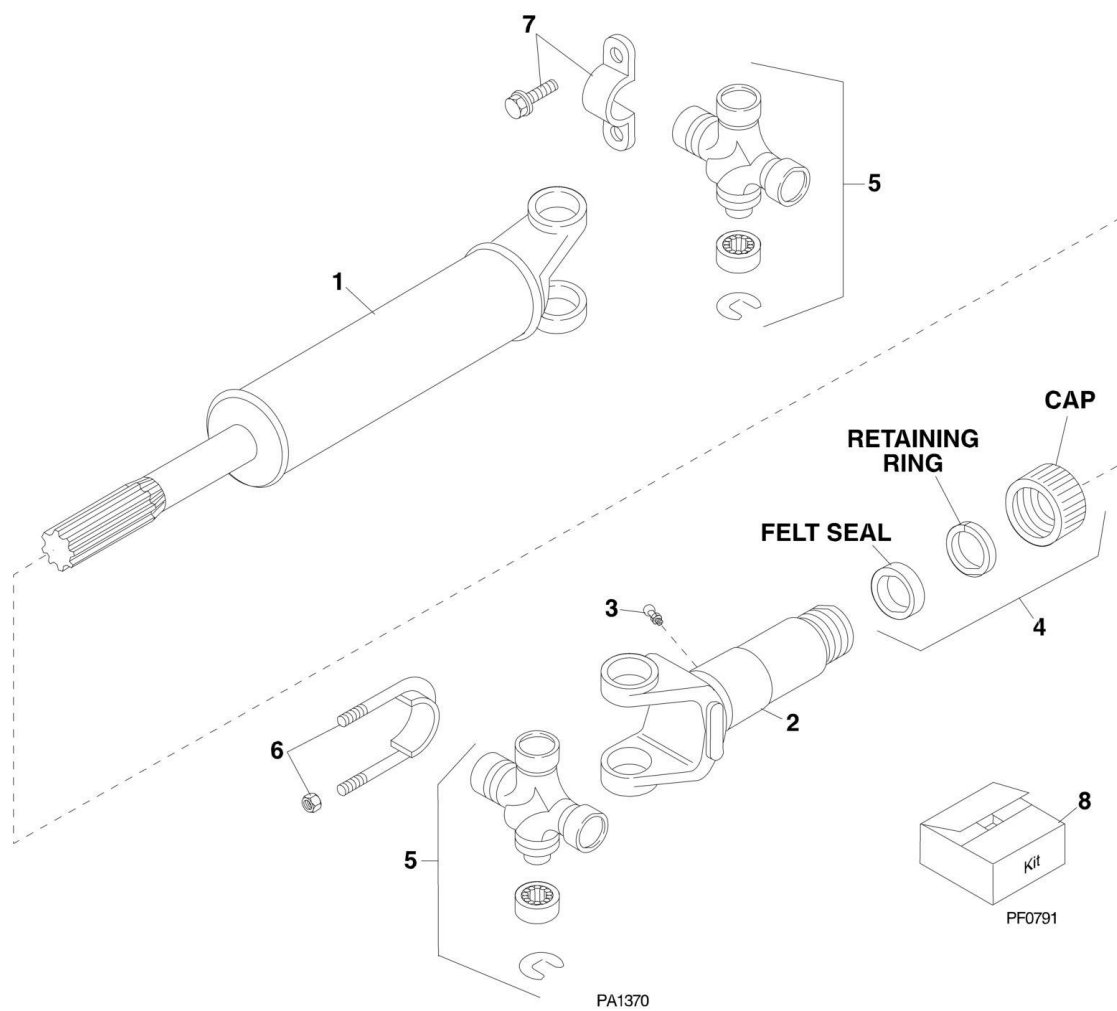
SECTION 3 - DRIVE TRAIN

FIGURE 3-8. TRANSMISSION MOUNTING (Prior to SN 9H0794)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8841007	1	Transmission (For Perkins 4.336 - Natural Engines only) (Prior to SN 8L0355)	
1	8841015	1	Transmission (For Perkins 4.236T - Turbo Engines and all Natural Engines) (SN 8L0355 through 9H0793)	
2	7079862	2	Mount, Transmission	
3	8303692	2	Screw, Hex Hd Cap, 1/2-NC x 2.75 Gr 5	
4	7080751	2	Washer, Rebound	
5	8278012	2	Mount, Vibration	
6	8305644	2	Locknut, 1/2-NC ESNA	
7	8303664	8	Screw, Hex Hd Cap, 3/4-10 x 1.5 Gr 5	
8	8307010	8	Lockwasher, 3/4	
9	8303621	11	Screw Hx Hd Cap, 3/8-16 x 1.5 Gr 5	
10	8307005	19	Lockwasher, 3/8	
11	8303659	8	Screw, Hex Hd Cap, 3/8-24 x 2.0 Gr 5	
		Ref	KITS	
12	8032958	1	Converter and Transmission Gasket and Sealing Kit	
13	8032959	1	Converter Section Gasket and Sealing Kit	

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FIGURE 3-9. DRIVE SHAFT - TRANSMISSION TO DROP GEAR BOX (PERKINS 4.236 - NATURAL ONLY) (Prior to SN 8L0355)



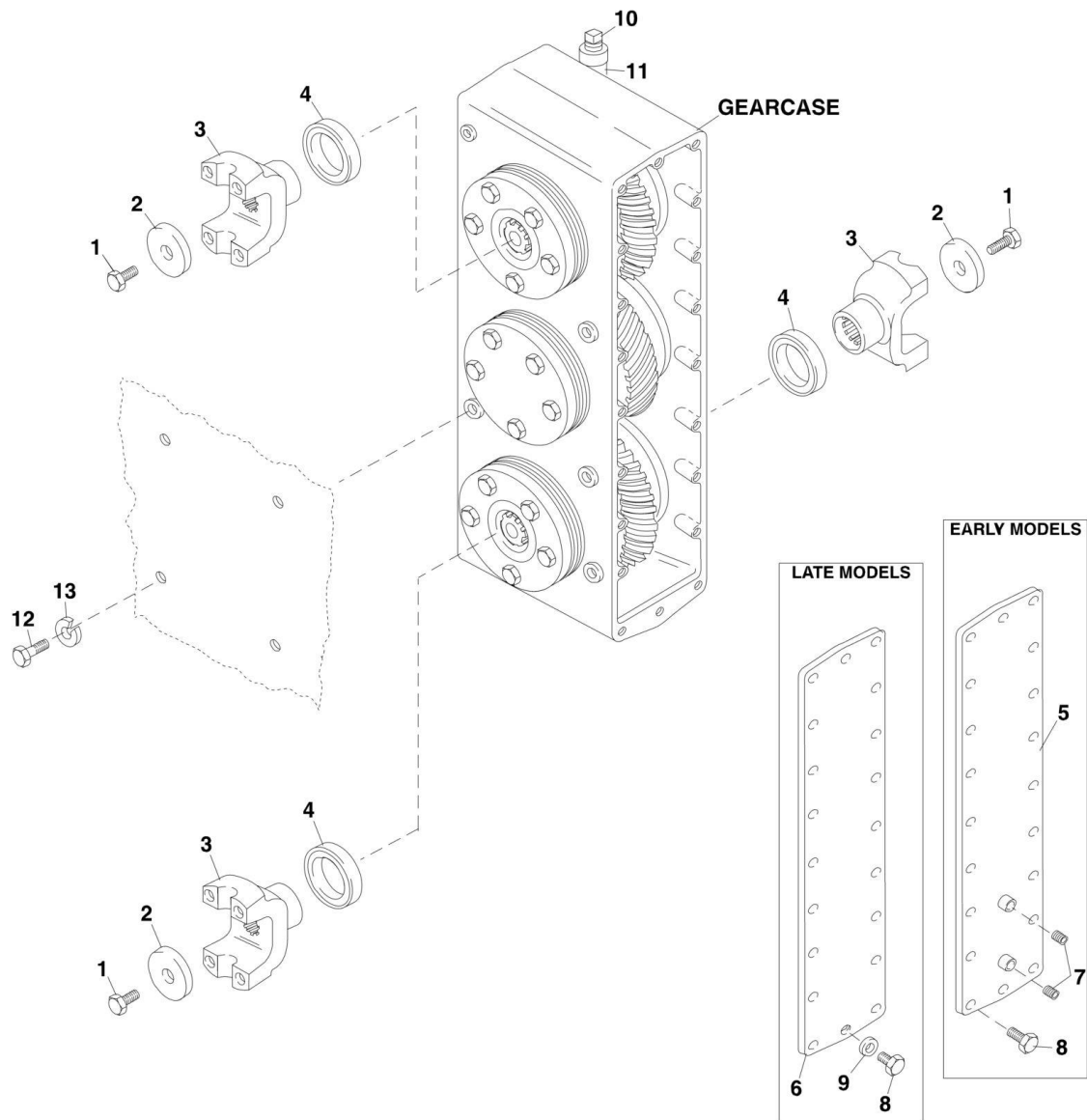
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FIGURE 3-9. DRIVE SHAFT - TRANSMISSION TO DROP GEAR BOX (PERKINS 4.236 - NATURAL ONLY) (Prior to SN 8L0355)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7078862	1	Drive Shaft, Trasnmission to Drop Gear Box (Includes Items 1 thru 5)	
1	8033001	1	Shaft Assembly	
2	8033003	1	Sleeve Assembly	
3	8033004	1	Fitting, Grease	
4	8033002	1	Seal Package	
5	See Kits	2	Cross and Bearing Assembly	
6	8880214-OM	2	U-Bolt Assembly	
7	8880215-OM	2	Cap and Bolt Assembly	
		Ref	KITS	
8	8033000	1	Cross and Bearing Kit (Includes 1 Cross, 4 Bearings & 4 Retaining Pins)	

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FIGURE 3-10. DROP GEAR BOX (PERKINS 4.236 - NATURAL ONLY) (Prior to SN 8L0355)



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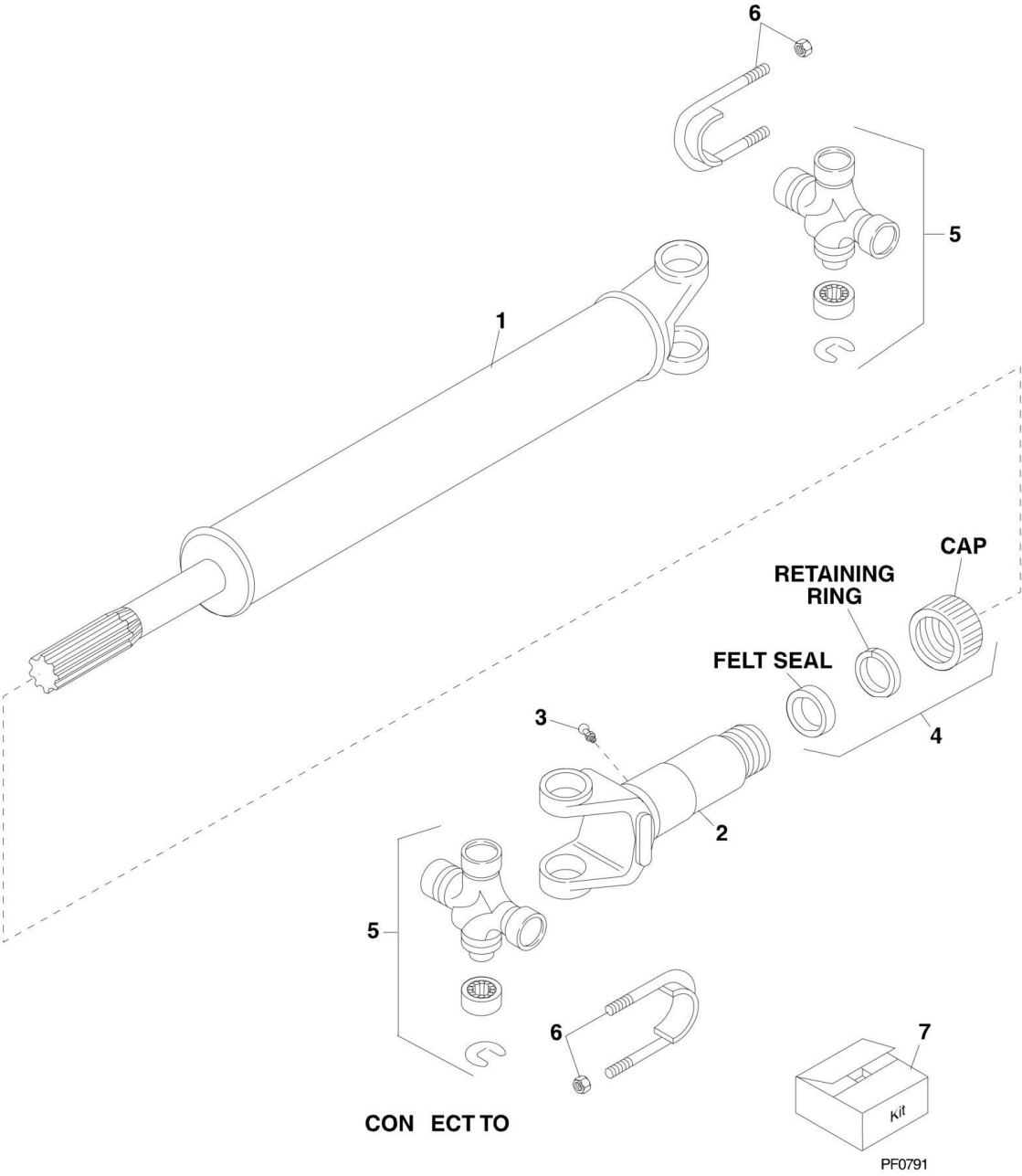
SECTION 3 - DRIVE TRAIN

FIGURE 3-10. DROP GEAR BOX (PERKINS 4.236 - NATURAL ONLY) (Prior to SN 8L0355)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841011	1	Drop Box Assembly (Includes Items 1 thru 11)	
1	8303624	3	Screw, Hex Hd, 1/2-13 x 1	
2	8032768	3	Washer	
3	8032766	3	Yoke, End	
4	8032770	3	Seal	
5	8032784	1	Cover, Housing (Early Models)	
6	8032946	1	Cover, Housing (Late Models)	
7	8540438	2	Plug, Pipe, 3/8 NPT Hex Socket (Early Models)	
8	8033681	20	Screw, Hex Hd, 3/8-16 x 3/4 UNC-2A	
9	8032787	1	Washer, Flat, 3/8 brass	
10	8032785	1	Plug, Vent, 3/8-18 NPT	
11	8032781	1	Elbow, 90, 3/8-18 NPT	
12	8303692	4	Screw, Cap, Hex Hd, 1/2 NC x 2-3/4 Gr 5	
13	8307007	4	Lockwasher, 3/8	

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FIGURE 3-11. DRIVE SHAFT (FRONT AND REAR AXLES)



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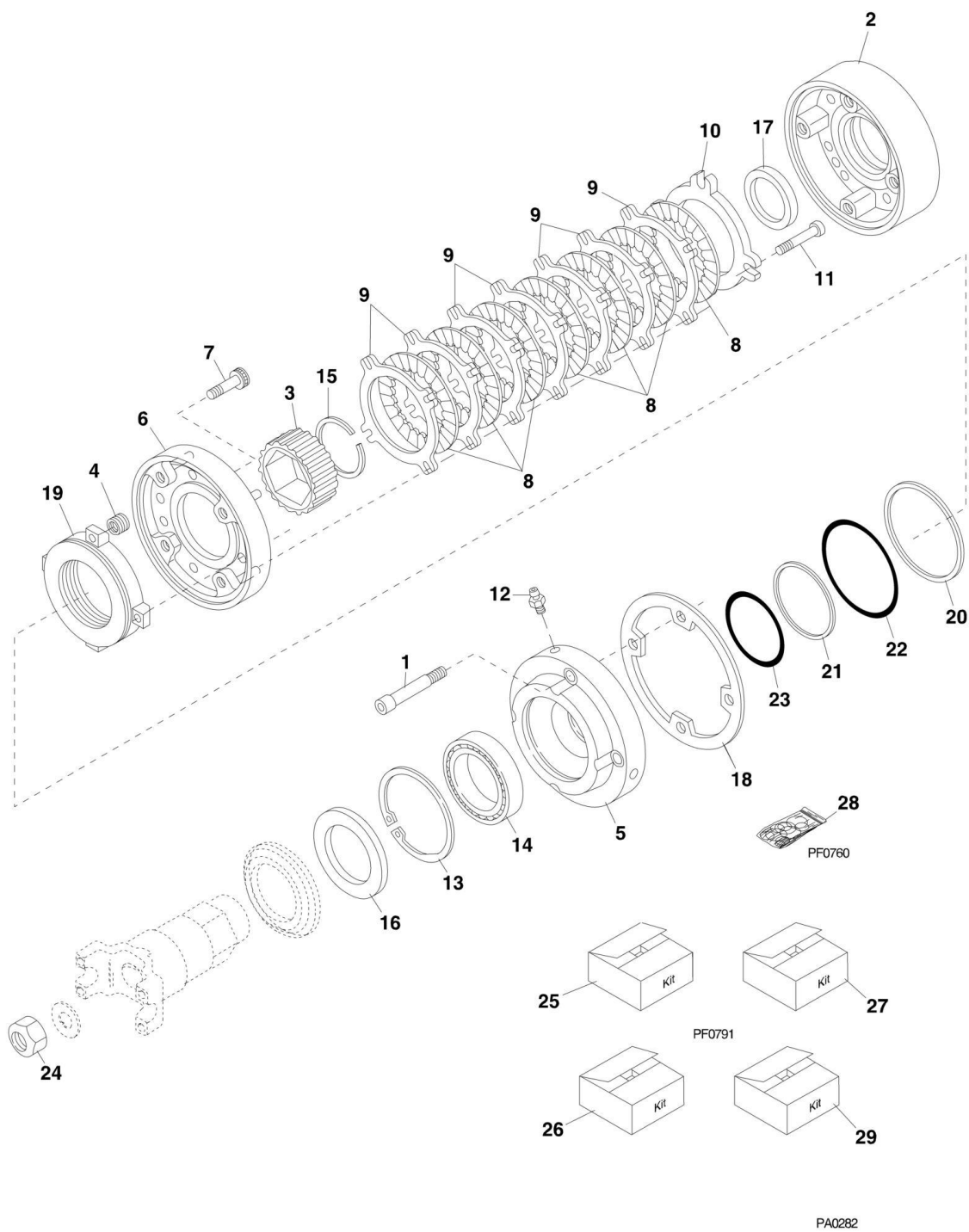
SECTION 3 - DRIVE TRAIN

FIGURE 3-11. DRIVE SHAFT (FRONT AND REAR AXLES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: Quantities are for one drive shaft	
	7078852	2	Drive Shaft, Axle (Includes Items 1 thru 5)	
1	8032905	1	Shaft Assembly	
2	8033003	1	Sleeve	
3	8033004	1	Fitting, Grease	
4	8033002	1	Seal Package	
5	See Kits	2	Cross and Bearing Assembly	
6	8880214-OM	4	U-Bolt Assembly	
		Ref	KITS	
7	8033000	1	Cross and Bearing Kit (Includes 1 Cross, 4 Bearings & 4 Retaining Rings)	

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FIGURE 3-12. PARK LOCK



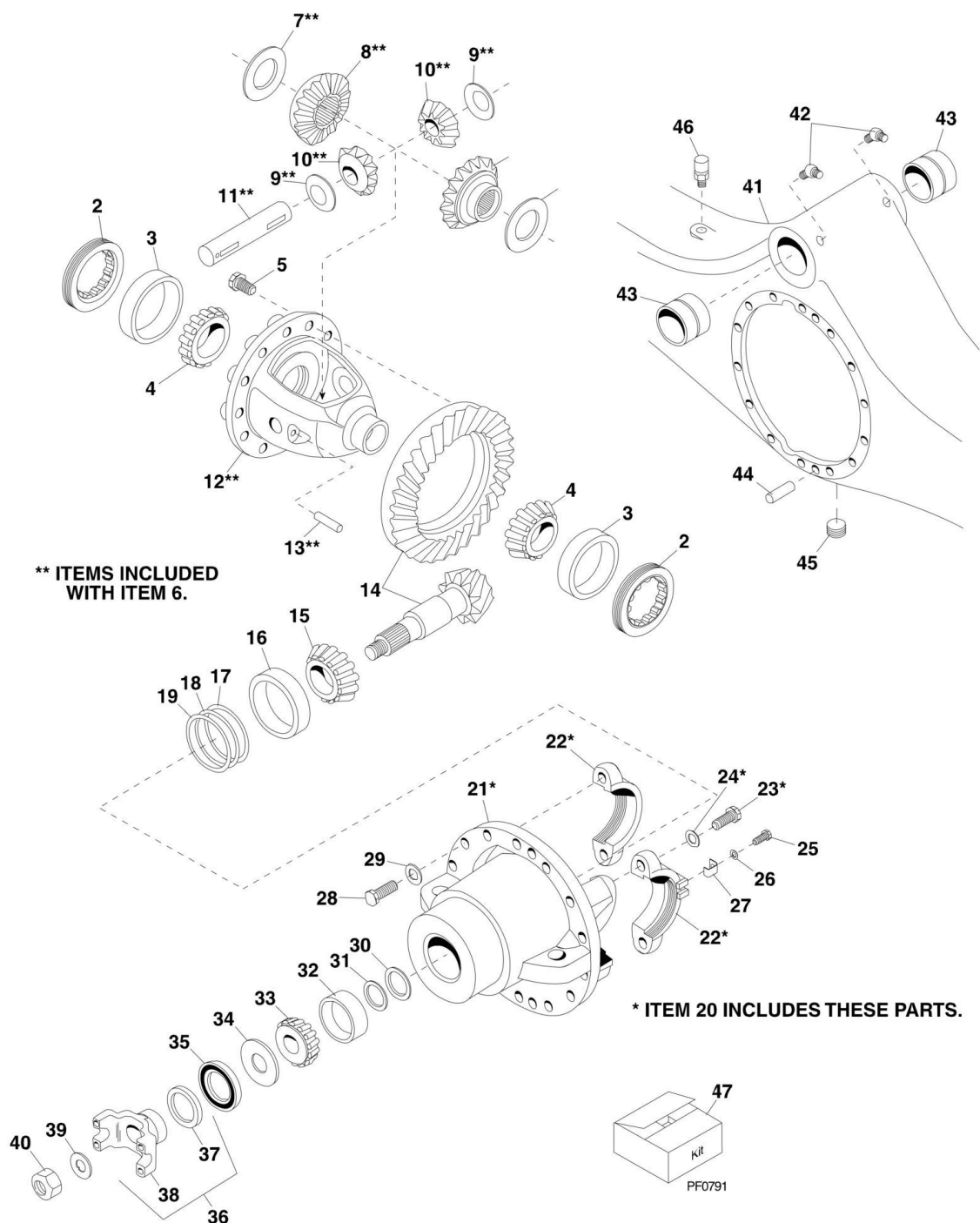
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FIGURE 3-12. PARK LOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8033487	1	Park Lock Assembly (Includes Items 1 thru 24)	
1	8033166	4	Screw, Socket Hd Cap	
2	8033167	1	Plate, Cover	
3	8033168	1	Spline, Outer	
4	8033169	12	Spring, Red	
5	See Kits	1	Plate, Pressure	
6	See Kits	1	Plate, Spring	
7	See Kits	4	Screw, Socket Hd Cap	
8	See Kits	7	Disc, Rotor	
9	See Kits	7	Disc, Stator	
10	See Kits	1	Disc, Primary	
11	See Kits	4	Bolt, Shoulder, Socket Hd	
12	See Kits	1	Screw, Bleeder	
13	See Kits	1	Ring, Retainer	
14	See Kits	1	Bearing	
15	See Kits	1	Ring, Retainer	
16	See Kits	1	Seal, Oil	
17	See Kits	1	Seal, Oil	
18	See Kits	2	Seal, Case	
19	See Kits	1	Piston	
20	See Kits	1	Ring, Backup	
21	See Kits	1	Ring, Backup	
22	See Kits	1	O-RING	
23	See Kits	1	O-RING	
24	See Kits	1	Nut, Pinion	
		Ref	KITS	
25	8033480	1	Pressure and Spring Plate (Includes Items 5, 6, 7 & 24)	
26	8033481	1	Disc and Plate Kit (Includes Items 8, 9, 10, 11, 12 & 24)	
27	8033482	1	Bearing and Ring Kit (Includes Items 13, 14, 15 & 24)	
28	8033483	1	Seal Kit (Includes Items 16, 17, 18 & 24)	
29	8033484	1	Piston and Ring Kit (Includes Items 19, 20, 21, 22, 23 & 24)	

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FIGURE 3-13. DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE



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FIGURE 3-13. DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE

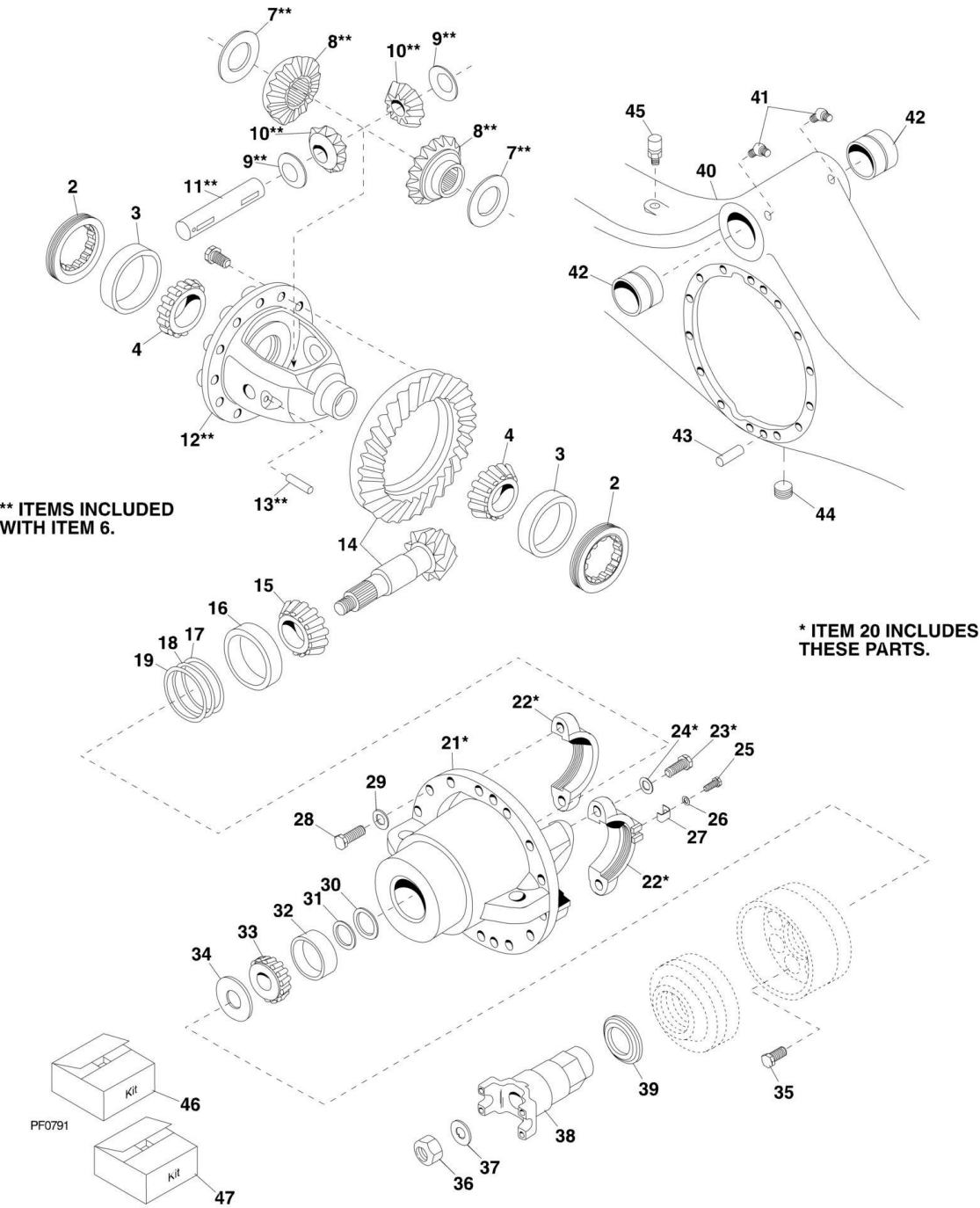
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8032817	1	Differential Carrier Assembly (Includes Items 2 thru 40)	
2	8032834	2	Ring, Adjusting	
3	8032836	2	Cup, Roller Bearing	
4	8032835	2	Cone, Roller Bearing	
5	8032830	12	Screw, Differential	
6	8032821	1	Differential Case Assembly (Includes Items 7 thru 13)	
7	8032828	2	Washer, Thrust	
8	8032824	2	Gear, Differential Side	
9	8032823	2	Washer, Pinion Thrust	
10	8032827	2	Gear, Pinion	
11	8032822	1	Shaft, Differential	
12	8032825	1	Case, Differential	
13	8032829	1	Pin, Pinion Bearing Cage	
14	8032837	1	Gear and Pinion Assembly	
15	8032838	1	Cone, Roller Bearing	
16	8032839	1	Cup, Roller Bearing	
17	8032840	AR	Shim, Bevel Pinion Bearing, 0.003	
18	8032841	AR	Shim, Bevel Pinion Bearing, 0.005	
19	8032842	AR	Shim, Bevel Pinion Bearing, 0.010	
20	8032954	1	Carrier Assembly (Includes Items 21 thru 24)	
21	N.S.S	1	Carrier	
22	N.S.S	2	Cap, Differential Carrier	
23	8032819	4	Screw, Differential Bearing Cap	
24	8032820	4	Washer, Differential Bearing Cap	
25	8032831	2	Bolt, Hex	
26	8032832	2	Washer, Flat	
27	8032833	2	Clip, Adjusting Ring	
28	8033824	14	Screw, Cap, Hex Hd	
29	8032855	14	Washer, Flat	
30	8032843	1	Spacer, Flat	
31	8033807	AR	Shim, Adjusting	
32	8032845	1	Cup, Roller Bearing	
33	8032846	1	Cone, Roller Bearing	
34	8032847	1	Washer, Thrust, Bearing	
35	8032980	1	Seal, Oil (See Kits)	
36	8032849	1	End Yoke Assembly (Includes items 37 & 38)	
37	8032850	1	Deflector	
38	8032960	1	End Yoke	
39	8032851	1	Washer, Pinion Nut	
40	8032852	1	Nut, Pinion (See Kits)	
41	8033179	1	Housing, Axle	
42	8032859	2	Fitting, Grease	
43	7089722	2	Bushing, Axle Pivot	
44	8032857	2	Pin, Dowel	
45	8032854	2	Plug, Pipe	
46	8033228	1	Vent	
		Ref	KITS	
47	8033485	1	Front or Rear Axle Seal Kit - w/Brakes (Includes the following items which contains enough seals to service one complete axle)	
47		Ref	Oil Seal, Pinion (Item 35, See DIFFERENTIAL CARRIER	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47		Ref	ASSEMBLY - FRONT AXLE)	
47		Ref	Nut, Pinion (Item 40, See DIFFERNTIAL CARRIER ASSEMBLY - FRONT AXLE)	
47		Ref	Oil Seal, Deflector (Item 9, See AXLE STEERING JOINTS)	
47		Ref	Oil Seal, Shaft/Housing (Item 10, See AXLE STEERING JOINTS)	
47		Ref	Oil Seal, King Pin (Item 22, See AXLE STEERING JOINTS)	
47		Ref	Oil Seal, Wheel Hub (Item 40, Se WHEEL END - WITH SERVICE BRAKES)	
47		Ref	Oil Seal, Shaft Spindle (Item 42, See WHEEL END - WITH SERVICE BRAKES)	

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FIGURE 3-14. DIFFERENTIAL CARRIER ASSEMBLY - REAR AXLE



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FIGURE 3-14. DIFFERENTIAL CARRIER ASSEMBLY - REAR AXLE

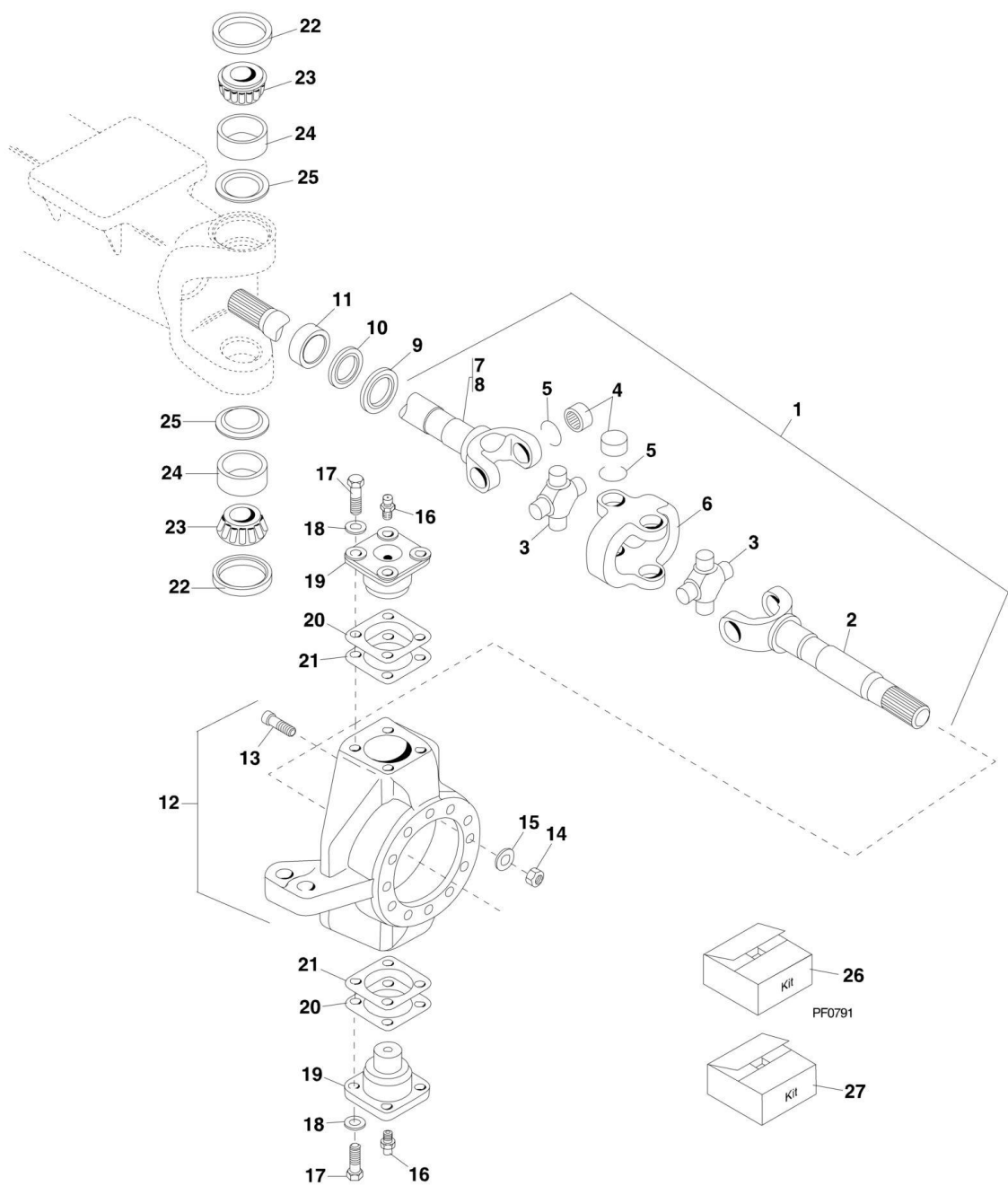
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8033491	1	Differential Carrier Assembly (Includes Items 2 thru 37)	
2	8032834	2	Ring, Adjusting	
3	8032836	2	Cup, Roller Bearing	
4	8032835	2	Cone, Roller Bearing	
5	8032830	12	Screw, Differential	
6	8032821	1	Differential Case Assembly (Includes Items 7 thru 13)	
7	8032828	2	Washer, Thrust	
8	8032824	2	Gear, Differential Side	
9	8032823	2	Washer, Pinion Thrust	
10	8032827	2	Gear, Pinion	
11	8032822	1	Shaft, Differential	
12	8032825	1	Case, Differential	
13	8032829	1	Pin, Pinion Bearing Cage	
14	8032837	1	Gear and Pinion Assembly	
15	8032838	1	Cone, Roller Bearing	
16	8032839	1	Cup, Roller Bearing	
17	8032840	AR	Shim, Bevel Pinion Bearing, 0.003	
18	8032841	AR	Shim, Bevel Pinion Bearing, 0.005	
19	8032842	AR	Shim, Bevel Pinion Bearing, 0.010	
20	8032953	1	Carrier Assembly (Includes Items 21 thru 24)	
21	N.S.S	1	Carrier	
22	N.S.S	2	Cap, Differential Carrier	
23	8032819	4	Screw, Differential Bearing Cap	
24	8032820	4	Washer, Differential Bearing Cap	
25	8032831	2	Bolt, Hex	
26	8032832	2	Washer, Flat	
27	8032833	2	Clip, Adjusting Ring	
28	8033824	14	Screw, Cap, Hex Hd	
29	8032855	14	Washer, Flat	
30	8032843	1	Spacer, Flat	
31	8033807	AR	Shim, Adjusting	
32	8032845	1	Cup, Roller Bearing	
33	8032846	1	Cone, Roller Bearing	
34	8032861	1	Washer, Thrust, Bearing	
35	8032862	8	Bolt, Hex	
36	8032852	1	Nut Pinion (See Kits)	
37	8032851	1	Washer, Pinion Nut	
38	8032863	1	End Yoke Assembly	
39	8032864	1	Slinger, Dust	
40	8033179	1	Housing, Axle	
41	8032859	2	Fitting, Grease	
42	7089722	2	Bushing, Axle Pivot	
43	8032857	2	Pin, Dowel	
44	8032854	2	Plug, Pipe	
45	8033228	1	Vent	
		Ref	KITS	
46	8033486	1	Rear Axle Seal Kit - w/o Brakes (Includes the following items which contains enough seals to service one complete axle)	
46		Ref	Nut, Pinion (Item 36, See DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46		Ref	Oil Seal, Deflector (Item 9, See AXLE STEERING JOINTS)	
46		Ref	Oil Seal, Shaft/Housing (Item 10, See AXLE STEERING JOINTS)	
46		Ref	Oil Seal, King Pin (Item 22, See AXLE STEERING JOINTS)	
46		Ref	Oil Seal, Wheel Hub (Item 29, See WHEEL END - REAR AXLE ONLY)	
46		Ref	Oil Seal, Shaft Spindle (Item 31, See WHEEL END - REAR AXLE ONLY)	
47	8033485	1	Front or Rear Oil Seal Kit - w/Brakes (See DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE for Breakdown)	

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FIGURE 3-15. AXLE STEERING JOINTS



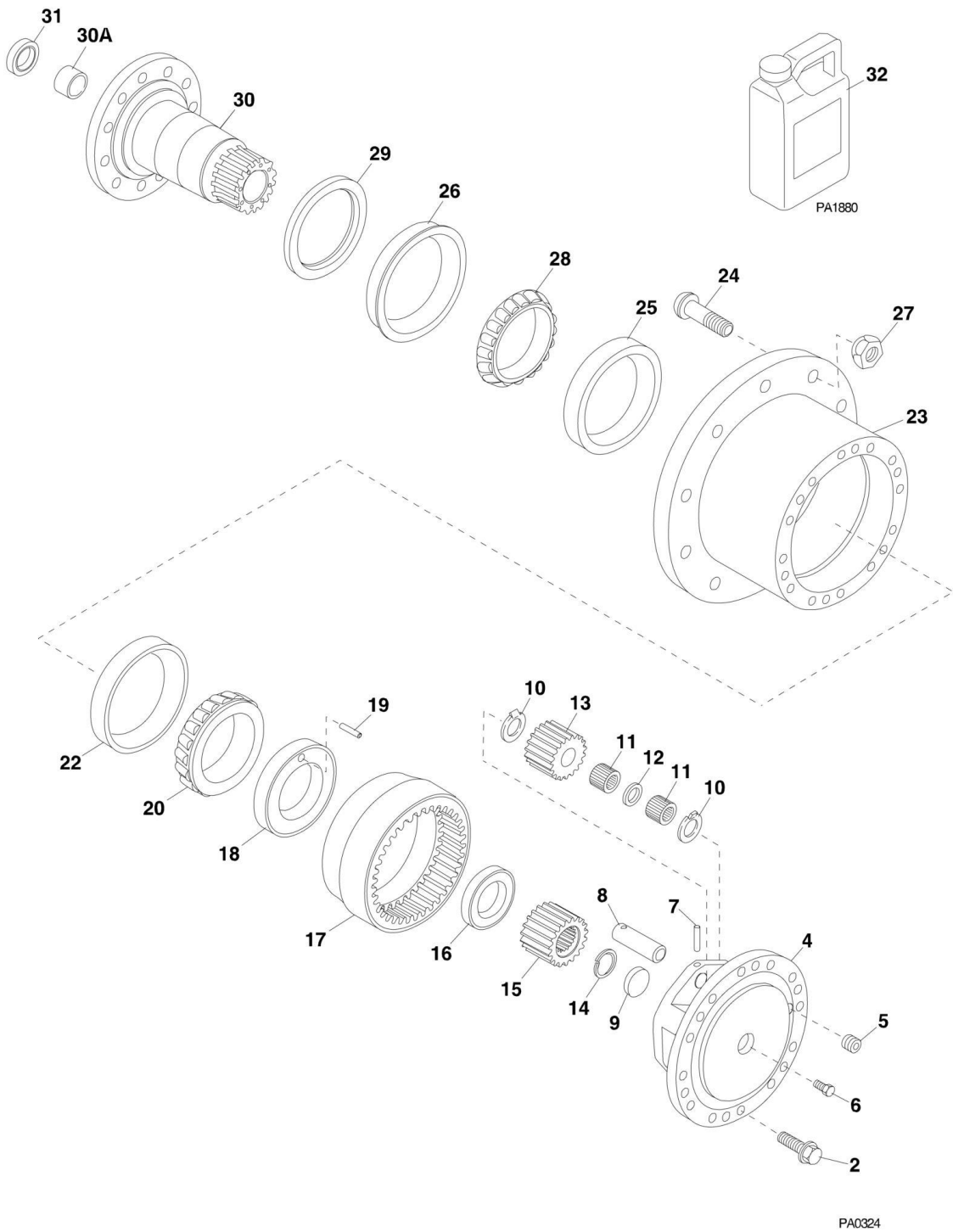
SECTION 3 - DRIVE TRAIN

FIGURE 3-15. AXLE STEERING JOINTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: Quantities are for one axle	
1	8032951	1	Shaft and Joint Assembly, Right Rear, Left Front (Includes item 2 thru 7) (Not Shown)	
1	8033200		Shaft and Joint Assembly, Left Rear, Right Front (Includes Items 2, 3, 4, 5, 6 & 8)	
2	8032868	1	Shaft, Outer	
3	See Kits	2	Cross Assembly	
4	See Kits	8	Bearing Race Assembly	
5	See Kits	8	Ring, Snap	
6	8032874	1	Yoke, Center	
7	8032869	1	Shaft, Inner Yoke (Not Shown) - Right Rear and Left Front	
8	8032870	1	Shaft, Inner Yoke - Left Rear and Right Front	
9	8032981	2	Seal, Oil (See Kits below and on DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE and DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE)	
10	8032815	2	Seal, Oil (See Kits below and on DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE and DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE)	
11	8032887	2	Bushing, Spindle (See Kits)	
12	8032866	1	Knuckle Assembly, Left Rear, Right Front (Includes item 13)	
12	8032867	1	Knuckle Assembly, Not Shown, Right Rear, Left Front (Includes Item 13)	
13	8032878	12	Stud, Dowel	
14	8032875	24	Nut, Lock	
15	8032876	24	Washer, Flat	
16	8032877	4	Fitting, Grease	
17	8033824	16	Screw, Cap, Hex Hd	
18	8032855	16	Washer, Flat	
19	8032880	4	Cap, King Pin	
20	8032881	AR	Shim, Formed	
21	8032882	AR	Shim, Formed	
22	8032979	4	Seal, Oil (See Kits below and on DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE and DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE)	
23	8032883	4	Cone, Roller Bearing	
24	8032885	4	Cup, Roller Bearing	
25	8032886	4	Retainer, Grease	
		Ref	KITS	
26	7091562	AR	Axle Shaft Service Kit (Includes one of each items 9, 10, 11 & Instruction sheet)	
27	8033492	2	Cross and Bearing Kit (Includes one of Item 3 & four of Items 4 & 5)	

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FIGURE 3-16. WHEEL END - REAR AXLE ONLY (W/O SERVICE BRAKES)



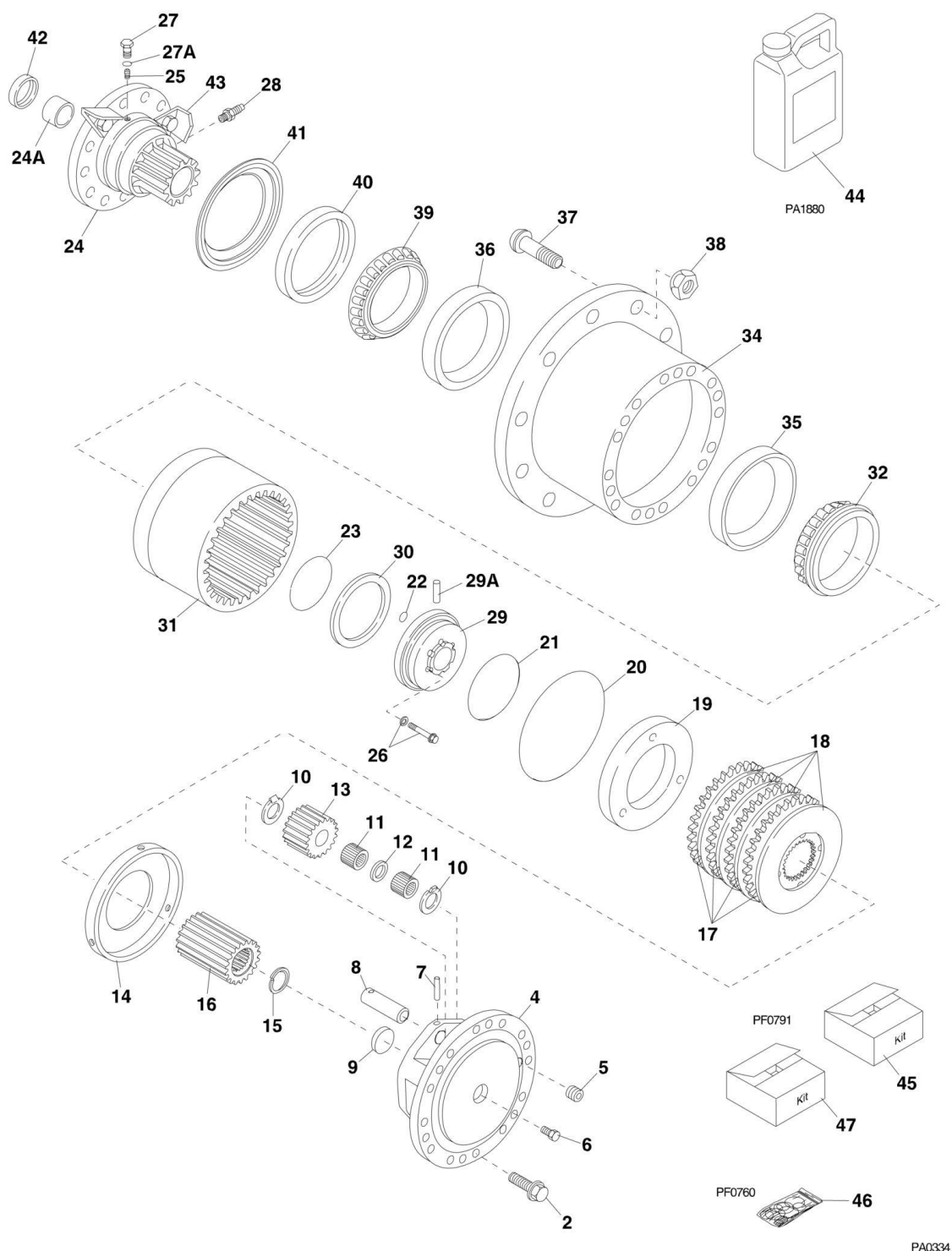
SECTION 3 - DRIVE TRAIN

FIGURE 3-16. WHEEL END - REAR AXLE ONLY (W/O SERVICE BRAKES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: Quantities for items 2 thru 31 are for one wheel assembly	
1	8032938	2	Wheel End Assembly, Rear Axle (Includes Items 2 thru 31)	
2	8032906	18	Screw, Hex Hd, Self Locking	
3	8032918	1	Planetary Gear Assembly (Includes Items 4 thru 13)	
4	8032903	1	Flange, Drive, Planetary	
5	8032895	1	Plug, Pipe	
6	8032894	1	Plug, Hex Hd	
7	8032937	3	Pin, Roller	
8	8032899	3	Shaft, Planet Gear	
9	8032896	1	Washer, Drive Flange	
10	8032901	6	Washer, Keyed	
11	8032898	150	Bearing Single Roller	
12	8032897	3	Washer, Planet Gear	
13	8032902	3	Gear, Spur	
14	8032908	1	Ring, Snap	
15	8032939	1	Gear, Spur	
16	8032940	1	Spacer, Flat	
17	8032941	1	Gear, Planetary Ring	
18	8032943	1	Nut, Lock	
19	8032942	1	Pin, Roll	
20	8032944	1	Cone, Roller Bearing	
21	8033225	1	Hub Assembly (Includes Items 22 thru 26)	
22	8032934	1	Cup, Roller Bearing	
23	8032933	1	Hub, Planetary	
24	8032893	10	Bolt, Wheel, RH	
25	8032935	1	Cup, Roller Bearing	
26	8032936	1	Slinger, Hub Oil	
27	8786516	10	Nut, Wheel	
28	8032945	1	Cone, Roller Bearing	
29	8032988	1	Seal, Oil (See Kit, See DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE)	
30	8032948	1	Spindle Assembly (Includes item 30A)	
30A	8032977	1	Bushing, Spindle	
31	8032982	1	Seal, Oil (See Kit, See DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE)	
32	8522042	AR	Fluid, Special Wet Disc Brake, 1 Gal. (Not Shown)	

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FIGURE 3-17. WHEEL END - WITH SERVICE BRAKES



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FIGURE 3-17. WHEEL END - WITH SERVICE BRAKES

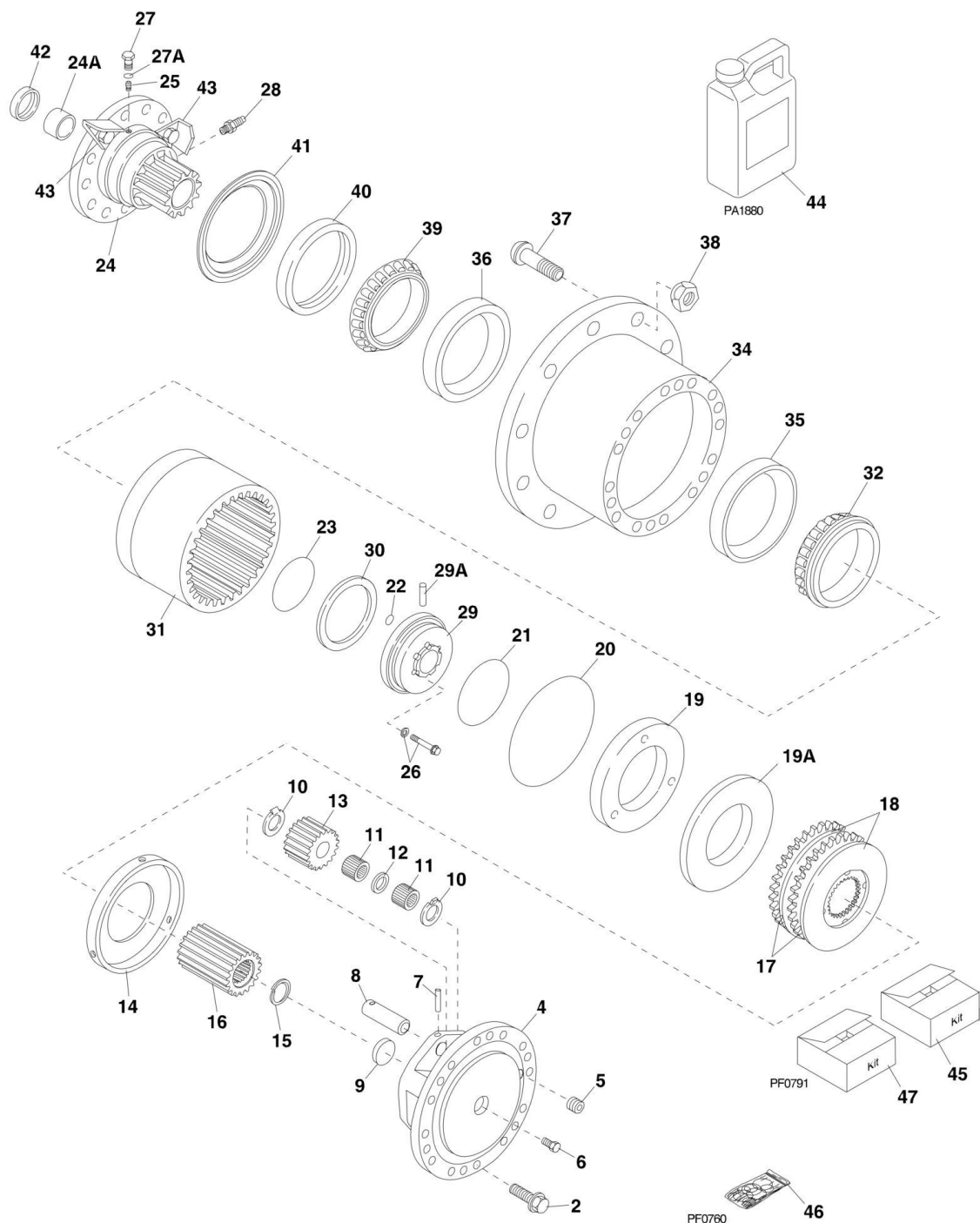
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: Quantities for items 2 thru 43 are for one wheel end assembly	
1	8033095	2	Wheel End Assembly, Front Axle (Includes Items 2 thru 43)	
2	8032906	18	Screw, Hex Hd, Self Locking	
3	8033012	1	Planetary Gear Assembly (Includes Items 4 thru 14)	
4	8032903	1	Flange, Planetary Drive	
5	8032895	1	Plug, Pipe	
6	8032894	1	Plug, Hex Hd	
7	8032900	3	Pin, Roller	
8	8032899	3	Shaft, Planet Gear	
9	8032896	1	Washer, Drive Flange	
10	8032901	6	Washer, Keyed	
11	8032898	150	Bearing, Single Roller	
12	8032897	3	Washer, Planet Gear	
13	8032902	3	Gear, Spur	
14	8032904	1	Plate, Lining Stop	
15	8032908	1	Ring, Snap	
16	8032907	1	Gear, Spur	
17	N.S.S	4	Plate, Lining Stop (See Kits)	
18	N.S.S	4	Disc Assembly (See Kits)	
19	8032912	1	Piston	
20	8032924	1	O-Ring (See Kits)	
21	8032925	1	O-Ring (See Kits)	
22	8032922	2	O-Ring (See Kits)	
23	8032923	1	O-Ring (See Kits)	
24	See Kits	1	Spindle Assembly (Includes Items 24A & 25)	
24A	8032978	1	Bushing, Spindle	
25	8032826	1	Seat, Bleeder (See Kits)	
26	8034581	1	Screw 12 Pt Cap and Washer Kit (Contains 6 each)	
27	8032984	1	Plug, Bleeder	
27A	8032985	1	O-Ring, Bleeder Plug	
28	8032848	1	Fitting, Brake	
29	8032920	1	Retainer, Bearing Adjuster Ring (Includes Item 29A)	
29A	8032949	1	Tubing, Brake	
30	8032972	AR	Shim, Adjusting, 0.010	
30	8032973	AR	Shim, Adjusting, 0.020	
30	8032974	AR	Shim, Adjusting, 0.030	
31	8032910	1	Gear, Planetary	
32	8032913	1	Cone, Roller Bearing	
33	8032879	1	Hub Assembly (Includes Items 34 thru 37)	
34	8032890	1	Hub, Planetary	
35	8032891	1	Cup, Roller Bearing	
36	8032892	1	Cup, Roller Bearing	
37	8032893	10	Bolt, Wheel, RH	
38	8786516	10	Nut, Wheel	
39	8032914	1	Cone, Roller Bearing	
40	8032983	1	Seal, Oil (See Kits, See DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE)	
41	8032926	1	Deflector, Seal	
42	8032982	1	Seal, Oil (See Kit, See DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	8033226	2	Scraper	
44	8522042	AR	Fluid, Special Wet Disc Brake, 1 Gal.	
		Ref	KITS	
45	8032927	1	Service Kit, Spindle (Includes Items 24, 24A, 25 & 26)	
46	8032957	1	Wet Brake Seal Kit (Includes Items 20 thru 23)	
47	8034688	1	Service Kit, Brake Discs and Plates (Includes Items 17 & 18)	

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FIGURE 3-18. WHEEL END - WITH SERVICE BRAKES (REAR AXLE ONLY) (SN 1306 through 2337)



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FIGURE 3-18. WHEEL END - WITH SERVICE BRAKES (REAR AXLE ONLY) (SN 1306 through 2337)

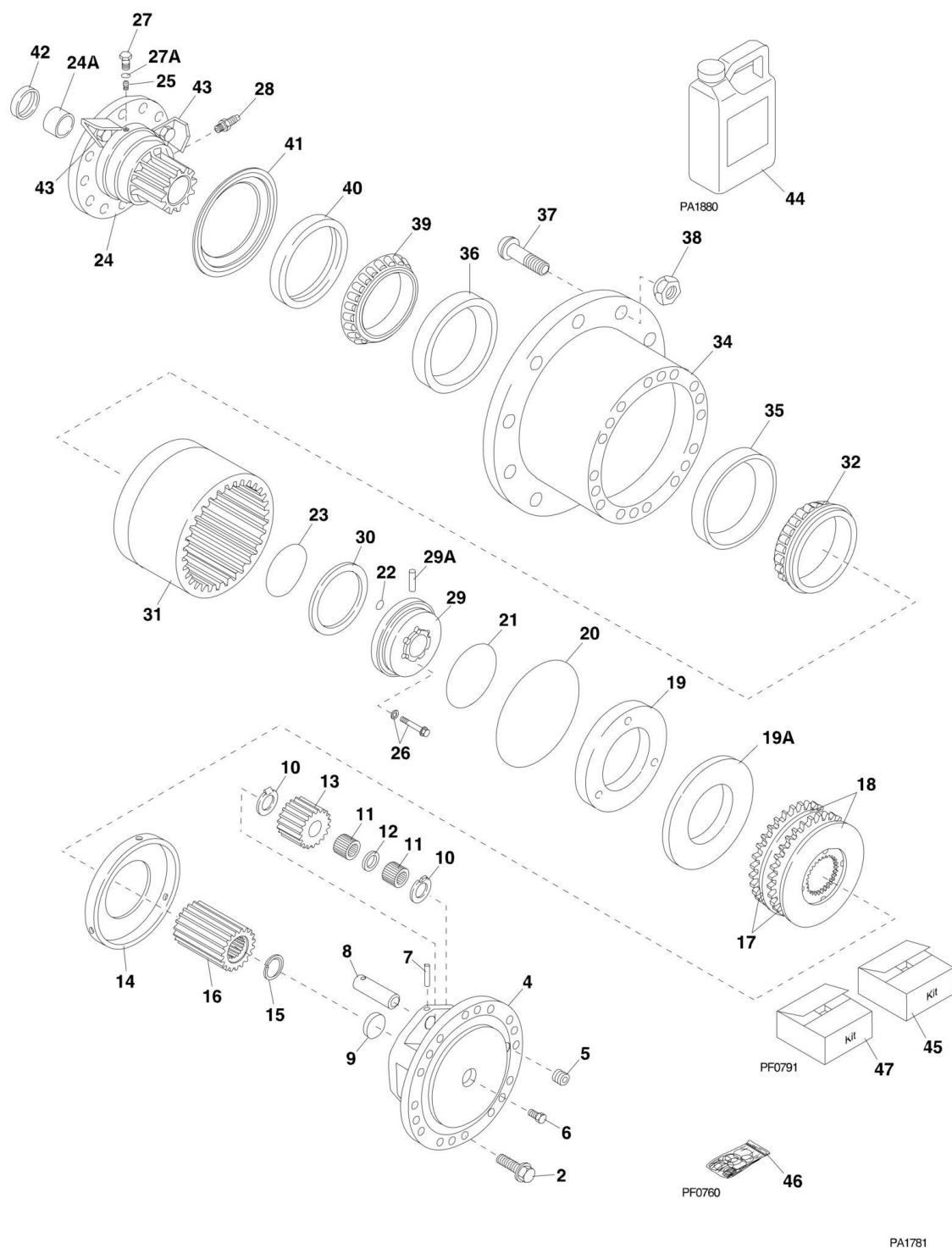
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: Quantities for items 2 thru 43 are for one wheel end assembly	
1	8033247	2	Wheel End Assembly (Includes Items 2 thru 43)	
2	8032906	18	Screw, Hex Hd, Self Locking	
3	8033012	1	Planetary Gear Assembly (Includes Items 4 thru 14)	
4	8032903	1	Flange, Planetary Drive	
5	8032895	1	Plug, Pipe	
6	8032894	1	Plug, Hex Hd	
7	8032900	3	Pin, Roller	
8	8032899	3	Shaft, Planet Gear	
9	8032896	1	Washer, Drive Flange	
10	8032901	6	Washer, Keyed	
11	8032898	150	Bearing, Single Roller	
12	8032897	3	Washer, Planet Gear	
13	8032902	3	Gear, Spur	
14	8032904	1	Plate, Lining Stop	
15	8032908	1	Ring, Snap	
16	8032907	1	Gear, Spur	
17	N.S.S	2	Plate, Lining Stop (See Kits)	
18	N.S.S	2	Disc Assembly (See Kits)	
19	8032912	1	Piston	
19A	8033248	1	Plate, Spacer	
20	8032924	1	O-Ring (See Kits)	
21	8032925	1	O-Ring (See Kits)	
22	8032922	2	O-Ring (See Kits)	
23	8032923	1	O-Ring (See Kits)	
24	See Kits	1	Spindle Assembly (Includes Items 24A & 25)	
24A	8032978	1	Bushing, Spindle	
25	8032826	1	Seat, Bleeder (See Kits)	
26	8034581	1	Screw 12 Pt Cap and Washer Kit (Contains 6 each)	
27	8032984	1	Plug, Bleeder	
27A	8032985	1	O-Ring, Bleeder Plug	
28	8032848	1	Fitting, Brake	
29	8032920	1	Retainer, Bearing Adjuster Ring (Includes Item 29A)	
29A	8032949	1	Tubing, Brake	
30	8032972	AR	Shim, Adjusting, 0.010	
30	8032973	AR	Shim, Adjusting, 0.020	
30	8032974	AR	Shim, Adjusting, 0.030	
31	8032910	1	Gear, Planetary	
32	8032913	1	Cone, Roller Bearing	
33	8032879	1	Hub Assembly (Includes Items 34 thru 37)	
34	8032890	1	Hub, Planetary	
35	8032891	1	Cup, Roller Bearing	
36	8032892	1	Cup, Roller Bearing	
37	8032893	10	Bolt, Wheel, RH	
38	8786516	10	Nut, Wheel	
39	8032914	1	Cone, Roller Bearing	
40	8032983	1	Seal, Oil (See Kits, See DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE)	
41	8032926	1	Deflector, Seal	
42	8032982	1	Seal, Oil (See Kit, See DIFFERENTIAL CARRIER ASSEMBLY -	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	8033226	2	FRONT AXLE) Scraper	
44	8522042	AR Ref	Fluid, Special Wet Disc Brake, 1 Gal.	
45	8032927	1	KITS Service Kit, Spindle (Includes Items 24, 24A, 25 & 26)	
46	8032957	1	Wet Brake Seal Kit (Includes Items 20 thru 23)	
47	7095841	1	Service Kit, Brake Discs and Plates (Includes Items 17 & 18)	

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FIGURE 3-19. WHEEL END - WITH SERVICE BRAKES (REAR AXLE ONLY) (SN 2338 to Present)



SECTION 3 - DRIVE TRAIN

FIGURE 3-19. WHEEL END - WITH SERVICE BRAKES (REAR AXLE ONLY) (SN 2338 to Present)

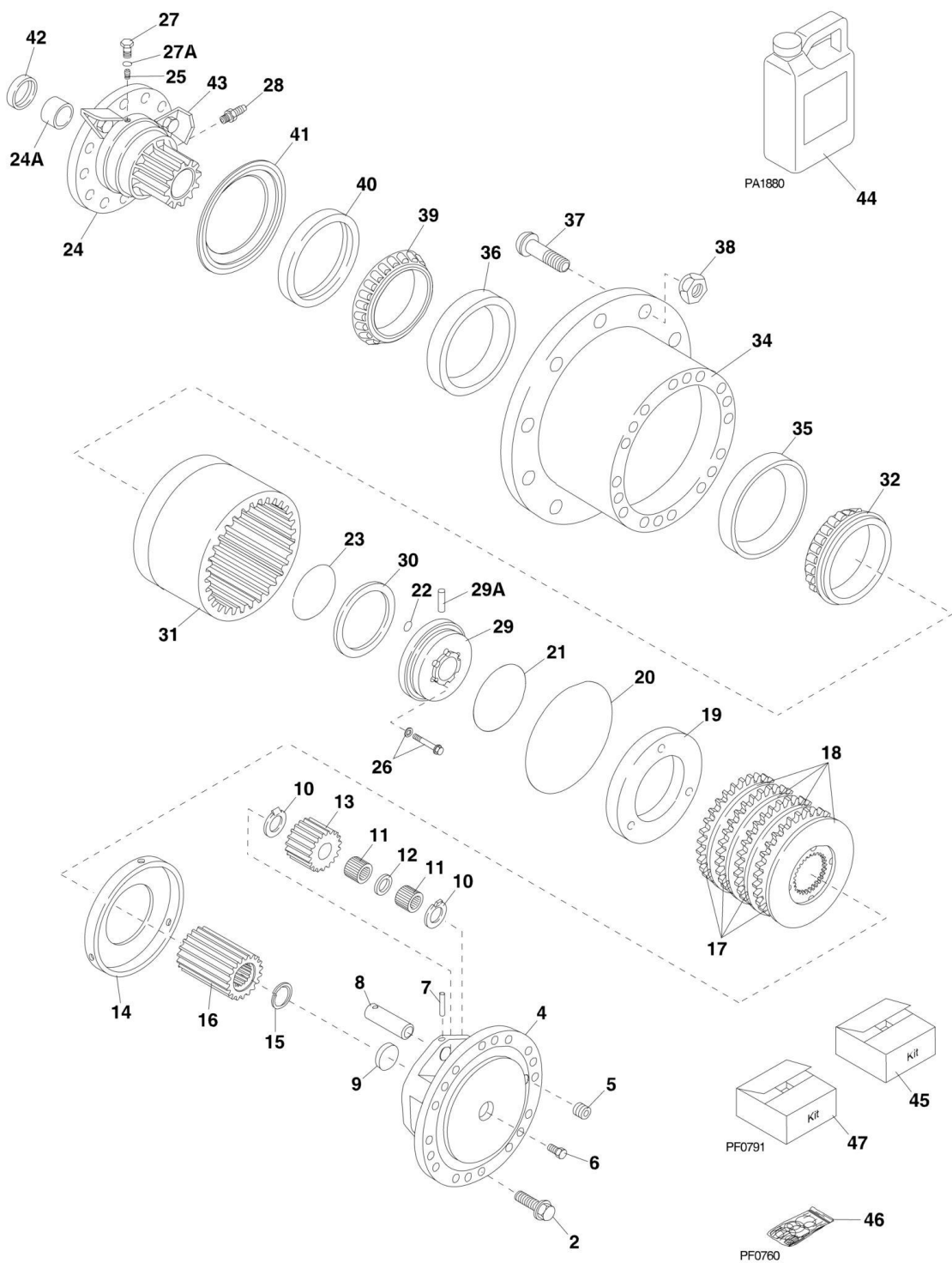
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8034587	2	Wheel End Assembly (Includes Items 2 thru 43)	
2	8032906	18	Screw, Hex Hd, Self Locking	
3	8033012	1	Planetary Gear Assembly (Includes Items 4 thru 14)	
4	8032903	1	Flange, Planetary Drive	
5	8032895	1	Plug, Pipe	
6	8032894	1	Plug, Hex Hd	
7	8032900	3	Pin, Roller	
8	8032899	3	Shaft, Planet Gear	
9	8032896	1	Washer, Drive Flange	
10	8032901	6	Washer, Keyed	
11	8032898	150	Bearing, Single Roller	
12	8032897	3	Washer, Planet Gear	
13	8032902	3	Gear, Spur	
14	8032904	1	Plate, Lining Stop	
15	8032908	1	Ring, Snap	
16	8032907	1	Gear, Spur	
17	N.S.S	2	Plate, Lining Stop (See Kits)	
18	N.S.S	2	Disc Assembly (See Kits)	
19	8032912	1	Piston	
19A	8033248	1	Plate, Spacer	
20	8032924	1	O-Ring (See Kits)	
21	8032925	1	O-Ring (See Kits)	
22	8032922	2	O-Ring (See Kits)	
23	8032923	1	O-Ring (See Kits)	
24	See Kits	1	Spindle Assembly (Includes Items 24A & 25)	
24A	8032978	1	Bushing, Spindle	
25	8032826	1	Seat, Bleeder (See Kits)	
26	8034584	6	Screw 12 Pt Cap 1/2in	
26A	8034585	6	Washer, Flat 1/2in	
27	8032984	1	Plug, Bleeder	
27A	8032985	1	O-Ring, Bleeder Plug	
28	8032848	1	Fitting, Brake	
29	8034586	1	Retainer, Bearing Adjuster Ring (Includes Item 29A)	
29A	8032949	1	Tubing, Brake	
30	8032972	AR	Shim, Adjusting, 0.010	
30	8032973	AR	Shim, Adjusting, 0.020	
30	8032974	AR	Shim, Adjusting, 0.030	
31	8032910	1	Gear, Planetary	
32	8032913	1	Cone, Roller Bearing	
33	8032879	1	Hub Assembly (Includes Items 34 thru 37)	
34	8032890	1	Hub, Planetary	
35	8032891	1	Cup, Roller Bearing	
36	8032892	1	Cup, Roller Bearing	
37	8032893	10	Bolt, Wheel, RH	
38	8786516	10	Nut, Wheel	
39	8032914	1	Cone, Roller Bearing	
40	8032983	1	Seal, Oil (See Kits, See DIFFERNTIAL CARRIER ASSEMBLY - FRONT AXLE)	
41	8032926	1	Deflector, Seal	
42	8032982	1	Seal, Oil (See Kit, DIFFERNTIAL CARRIER ASSEMBLY - FRONT	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	8033226	2	AXLE) Scraper	
44	8522042	AR Ref	Fluid, Special Wet Disc Brake, 1 Gal. KITS	
45	8034583	1	Service Kit, Spindle (Includes Items 24, 24A, 25, 26 & 26A)	
46	8032957	1	Wet Brake Seal Kit (Includes Items 20 thru 23)	
47	7095841	1	Service Kit, Brake Discs and Plates (Includes Items 17 & 18)	

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FIGURE 3-20. WHEEL END - WITH SERVICE BRAKES (FRONT AXLE ONLY) (SN 2344 to Present)



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FIGURE 3-20. WHEEL END - WITH SERVICE BRAKES (FRONT AXLE ONLY) (SN 2344 to Present)

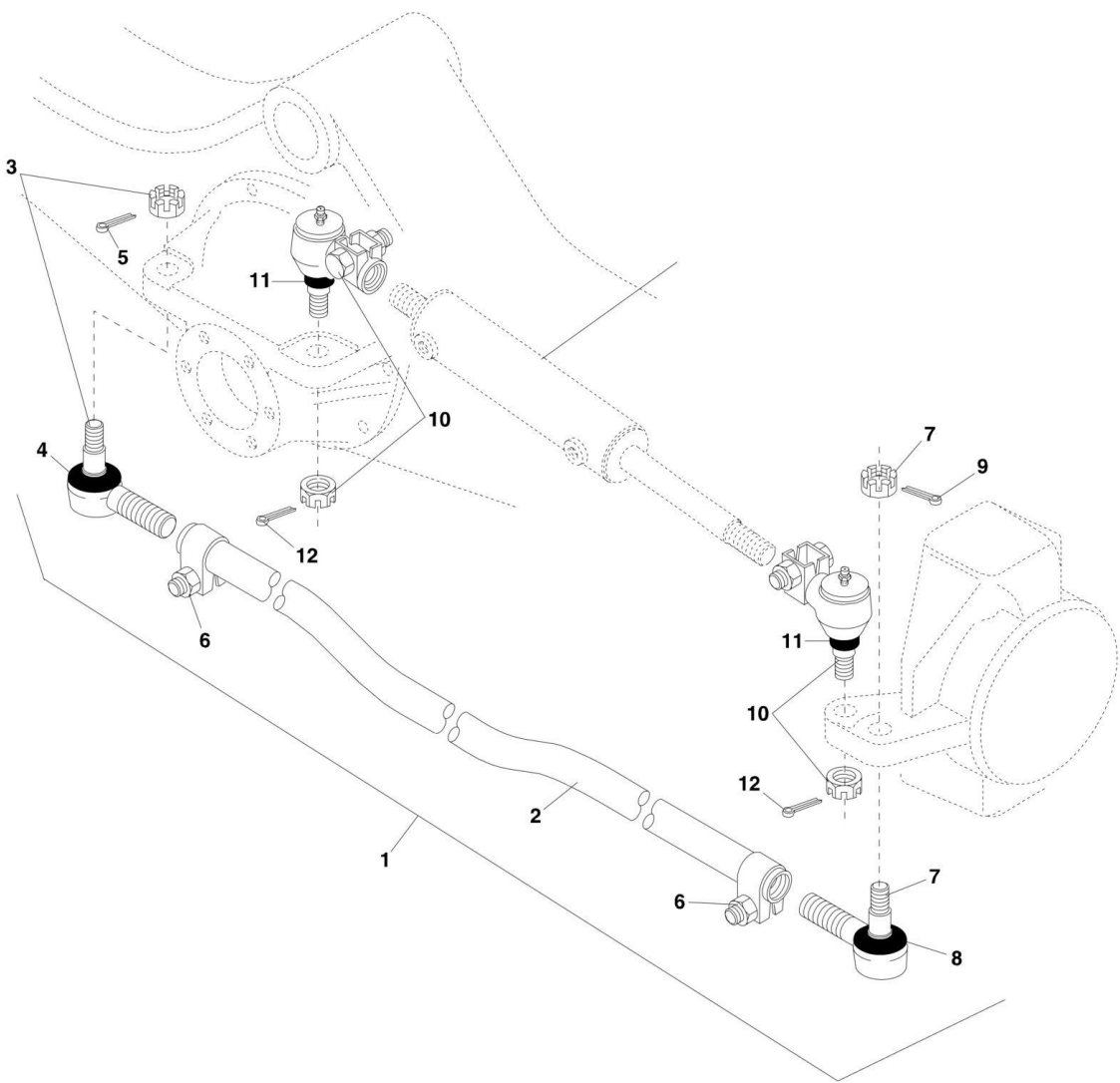
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: Quantities for items 2 thru 43 are for one wheel end assembly	
1	8034588	2	Wheel End Assembly, Front Axle (Includes Items 2 thru 43)	
2	8032906	18	Screw, Hex Hd, Self Locking	
3	8033012	1	Planetary Gear Assembly (Includes Items 4 thru 14)	
4	8032903	1	Flange, Planetary Drive	
5	8032895	1	Plug, Pipe	
6	8032894	1	Plug, Hex Hd	
7	8032900	3	Pin, Roller	
8	8032899	3	Shaft, Planet Gear	
9	8032896	1	Washer, Drive Flange	
10	8032901	6	Washer, Keyed	
11	8032898	150	Bearing, Single Roller	
12	8032897	3	Washer, Planet Gear	
13	8032902	3	Gear, Spur	
14	8032904	1	Plate, Lining Stop	
15	8032908	1	Ring, Snap	
16	8032907	1	Gear, Spur	
17	N.S.S	4	Plate, Lining Stop (See Kits)	
18	N.S.S	4	Disc Assembly (See Kits)	
19	8032912	1	Piston	
20	8032924	1	O-Ring (See Kits)	
21	8032925	1	O-Ring (See Kits)	
22	8032922	2	O-Ring (See Kits)	
23	8032923	1	O-Ring (See Kits)	
24	See Kits	1	Spindle Assembly (Includes Items 24A & 25)	
24A	8032978	1	Bushing, Spindle	
25	8032826	1	Seat, Bleeder (See Kits)	
26	8034584	6	Screw 12 Pt Cap 1/2in	
26A	8034585	6	Washer, Flat 1/2in	
27	8032984	1	Plug, Bleeder	
27A	8032985	1	O-Ring, Bleeder Plug	
28	8032848	1	Fitting, Brake	
29	8034586	1	Retainer, Bearing Adjuster Ring (Includes Item 29A)	
29A	8032949	1	Tubing, Brake	
30	8032972	AR	Shim, Adjusting, 0.010	
30	8032973	AR	Shim, Adjusting, 0.020	
30	8032974	AR	Shim, Adjusting, 0.030	
31	8032910	1	Gear, Planetary	
32	8032913	1	Cone, Roller Bearing	
33	8032879	1	Hub Assembly (Includes Items 34 thru 37)	
34	8032890	1	Hub, Planetary	
35	8032891	1	Cup, Roller Bearing	
36	8032892	1	Cup, Roller Bearing	
37	8032893	10	Bolt, Wheel, RH	
38	8786516	10	Nut, Wheel	
39	8032914	1	Cone, Roller Bearing	
40	8032983	1	Seal, Oil (See Kits, See DIFFERENTIAL CARRIER ASSEMBLY - FRONT AXLE)	
41	8032926	1	Deflector, Seal	
42	8032982	1	Seal, Oil (See Kit, See DIFFERENTIAL CARRIER ASSEMBLY -	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
43	8033226	2	FRONT AXLE) Scraper	
44	8522042	AR Ref	Fluid, Special Wet Disc Brake, 1 Gal.	
45	8034583	1	KITS Service Kit, Spindle (Includes Items 24, 24A, 25, 26 & 26A)	
46	8032957	1	Wet Brake Seal Kit (Includes Items 20 thru 23)	
47	8033096	1	Service Kit, Brake Discs and Plates (Includes Items 17 & 18)	

SECTION 3 - DRIVE TRAIN

FIGURE 3-21. TIRE ROD AND STEERING CYLINDER MOUNTING



PA1760

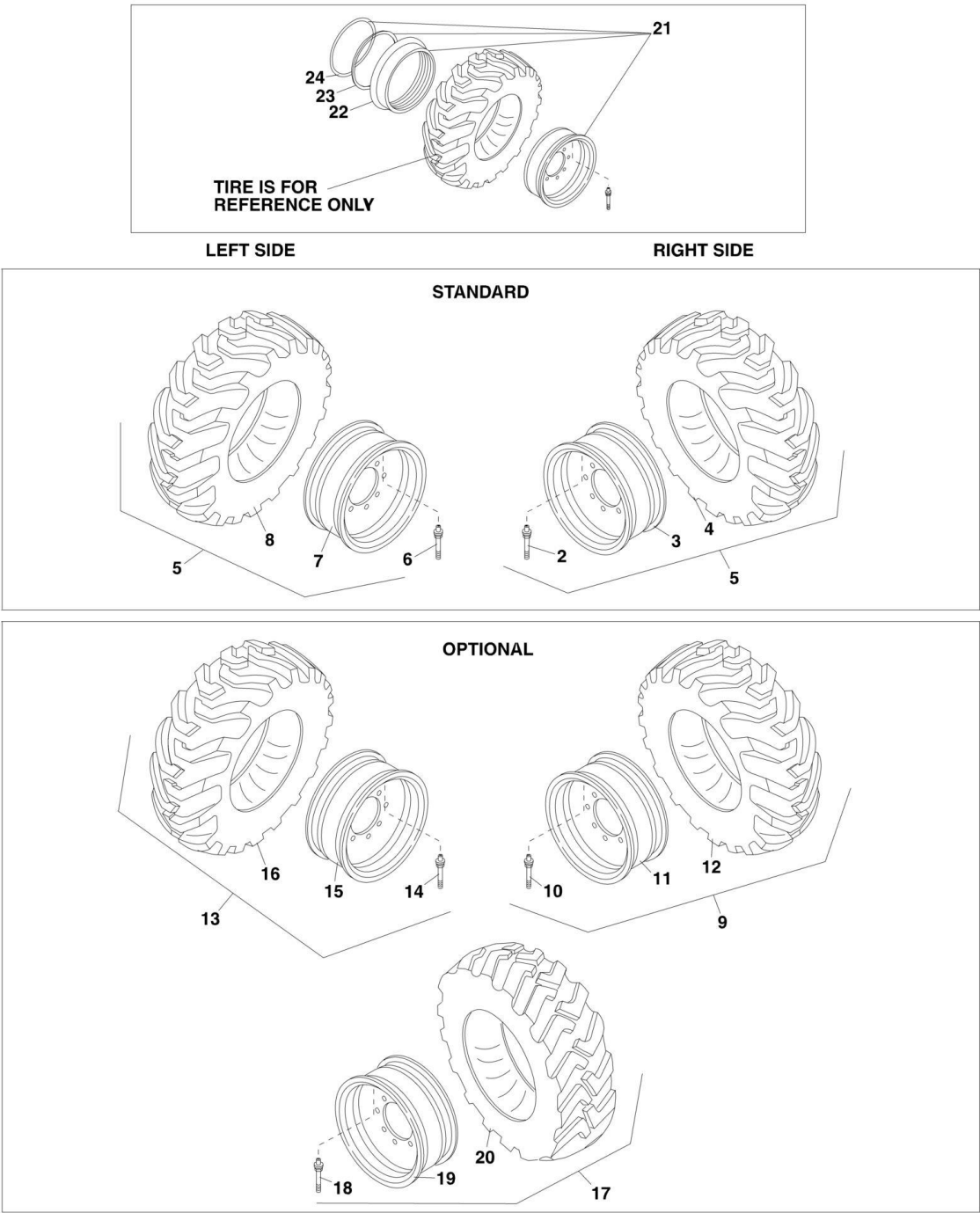
SECTION 3 - DRIVE TRAIN

FIGURE 3-21. TIRE ROD AND STEERING CYLINDER MOUNTING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
		Ref	Note: Quantities listed are for one axle	
1	8033252	1	Tie Rod Assembly (Includes items 2 thru 9)	
2	8032928	1	Tube, Tie Rod	
3	8032929	1	Socket Assembly, 1-1/8-16 (Includes Nut, Cotter Pin and Boot)	
4	8032816	1	Boot	
5	8033965	1	Cotter Pin	
6	8032930	2	Clamp Assembly	
7	8032931	1	Socket Assembly, 1-1/8-12 (Includes Nut, Cotter Pin and Boot)	
8	8032816	1	Boot	
9	8033965	1	Cotter Pin	
10	8340025	4	Socket Assembly, Steer Cylinder (Includes nut, cotter pin and boot)	
11	8032816	AR	Boot	
12	8033965	AR	Cotter Pin	

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FIGURE 3-22. WHEELS AND TIRES



PA1230

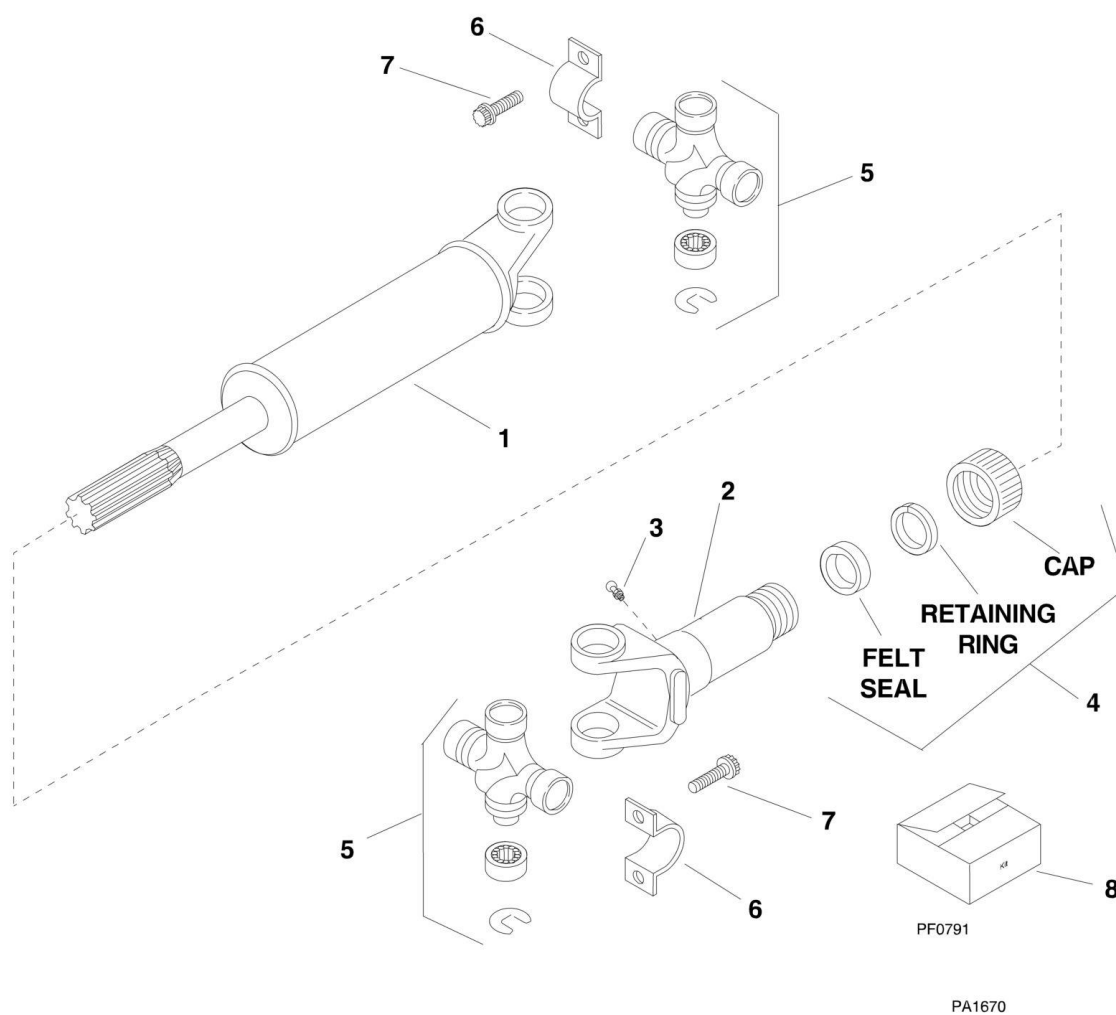
SECTION 3 - DRIVE TRAIN

FIGURE 3-22. WHEELS AND TIRES

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7092762	2	Tires and Wheel Assembly, Right Side (Includes items 2 thru 4)	
2	8786514	1	Stem, Valve	
3	7092533	1	Wheel, 24 x 9	
4	8780027	1	Tire, 13.00 - 24, 10 Ply	
5	7092772	2	Tire and Wheel Assembly, Left Side (Includes items 6 thru 8)	
6	8786514	1	Stem, Valve	
7	7092533	1	Wheel, 24 x 9	
8	8780027	1	Tire, 13.00 - 24, 10 Ply	
9	7084602	2	Tire and Wheel Assembly, Right Side (Optional) (Includes items 10 thru 12)	
10	8786514	1	Stem, Valve	
11	7078403	1	Wheel, 19.5 x 12.5	
12	8780262	1	Tire, 15.00 - 19.5, 12 Ply	
13	7084612	2	Tire and Wheel Assembly, Left Side (Optional) (Includes items 14 thru 16)	
14	8786514	1	Stem, Valve	
15	7078403	1	Wheel, 19.5 x 12.5	
16	8780262	1	Tire, 15.00 - 19.5, 12 Ply	
17	7092612	4	Tire and Wheel Assembly, Left or Right Side (Optional) (Includes items 18 thru 20)	
18	8786514	1	Stem, Valve	
19	7092533	1	Wheel, 24 x 9	
20	8780264	1	Tire 13.00R - 24, 14 Ply, Radial	
		Ref	The Following Rim Assembly is for (Prior to SN 1193)	
21	7083313	1	Rim Assembly - 4 Piece (Includes items 22 thru 24)	
22	8786543	1	Flange	
23	8786544	1	Locking Ring	
24	8786545	1	O-Ring	

SECTION 3 - DRIVE TRAIN

FIGURE 3-23. DRIVE SHAFT - TRANSMISSION TO DROP GEAR BOX (PERKINS AND CUMMINS ENGINES TURBO AND NAT.) (SN 8L0355 to Present)



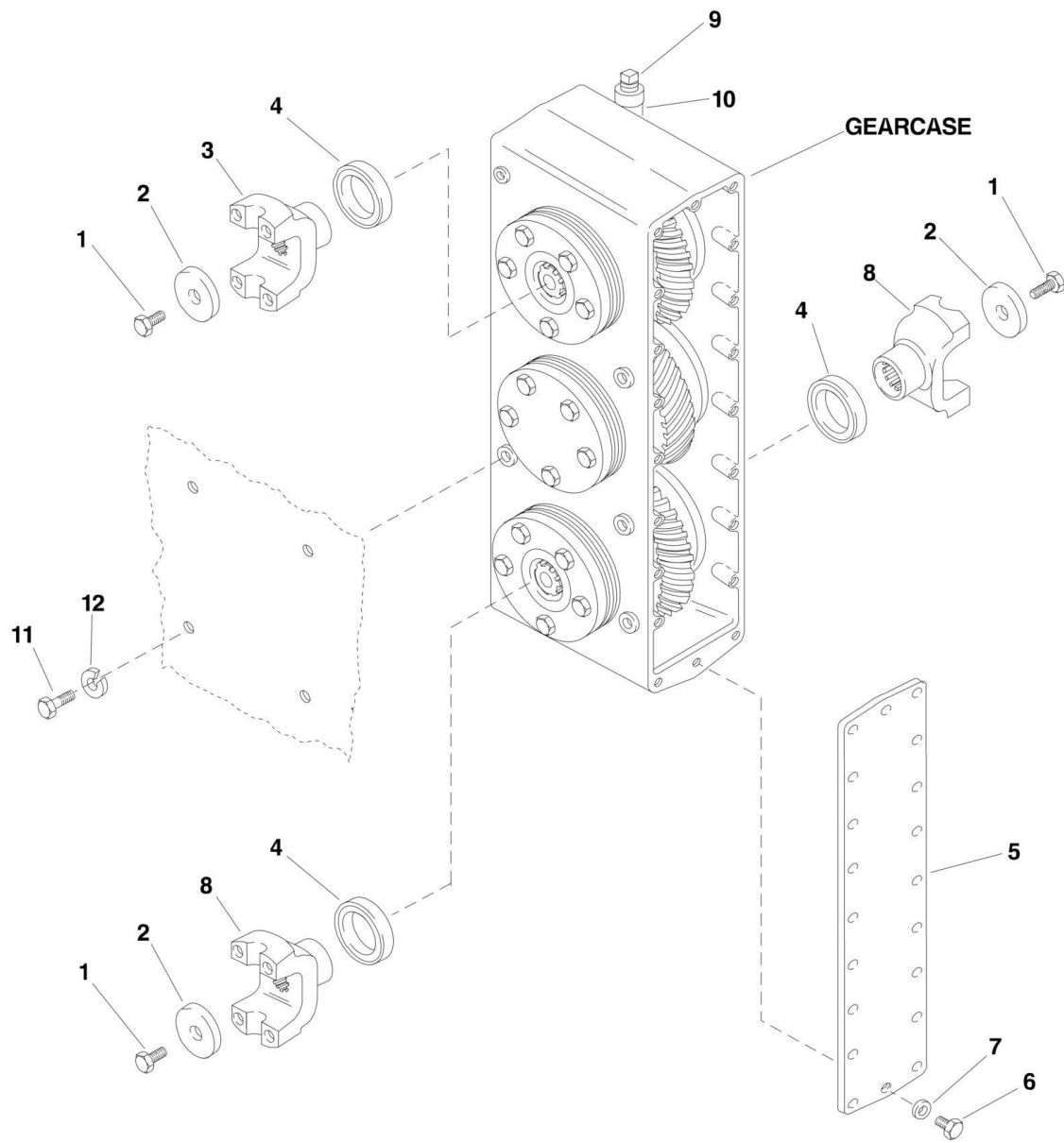
SECTION 3 - DRIVE TRAIN

FIGURE 3-23. DRIVE SHAFT - TRANSMISSION TO DROP GEAR BOX (PERKINS AND CUMMINS ENGINES TURBO AND NAT.) (SN 8L0355 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7088072	1	Drive Shaft, Transmission to Drop Box (Includes items 1 thru 5)	
1	8033005		Shaft Assembly	
2	8033006	1	Sleeve Assembly	
3	8033007	1	Fitting, Grease	
4	8033008	1	Seal Package	
5	See Kits	2	Cross and Bearing Assembly	
6	8880216-OM	4	Strap, Bearing	
7	8880217-OM	8	Screw, 12 Pt. Flange Hd, 3/8-24	
		Ref	KITS	
8	8033009	2	Cross and Bearing Kit (Includes 1 Cross, 4 Bearings & 4 Retaining Rings)	
9	8880218-OM	1	STRAP KIT, (includes items 6 & 7)	

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FIGURE 3-24. DROP GEAR BOX (PERKINS AND CUMMINS -TURBO AND NAT. ENGINES) (SN 8L0355 through 9N0941)



PA0263

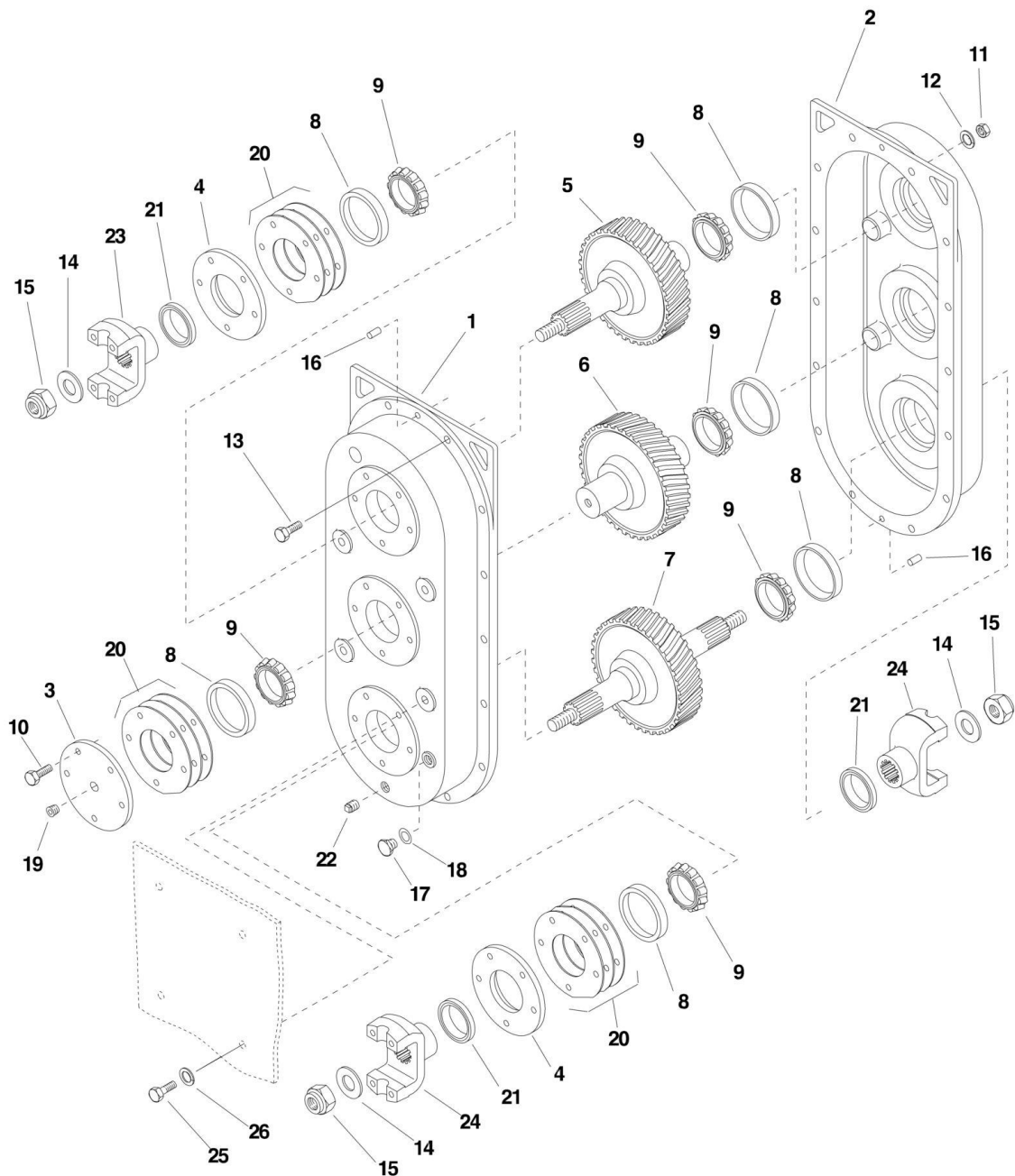
SECTION 3 - DRIVE TRAIN

FIGURE 3-24. DROP GEAR BOX (PERKINS AND CUMMINS -TURBO AND NAT. ENGINES) (SN 8L0355 through 9N0941)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841016	1	Drop Box Assembly (Includes Items 1 Thru 10)	
1	8303624	3	Screw, Hex Hd, 1/2-13 x 1	
2	8032768	3	Washer	
3	N.L.A	1	Yoke, End	
4	8032770	3	Seal	
5	8032946	1	Cover, Housing	
6	8033681	20	Screw, Hex Hd, 3/8-16 x 3/4 UNC-2A	
7	8032787	1	Washer, Flat, 3/8 brass	
8	8032766	2	Yoke, End	
9	8032785	1	Plug, Vent, 3/8-18 NPT	
10	8032781	1	Elbow, 90, 3/8-18 NPT	
11	8303692	4	Screw, Cap, Hex Hd, 1/2 NC x 2-3/4 grade 5	
12	8307007	4	Lockwasher, 3/8	

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FIGURE 3-25. DROP GEAR BOX (PERKINS AND CUMMINS ENGINES TURBO AND NAT.) (SN 9N0942 to Present)



PA1450

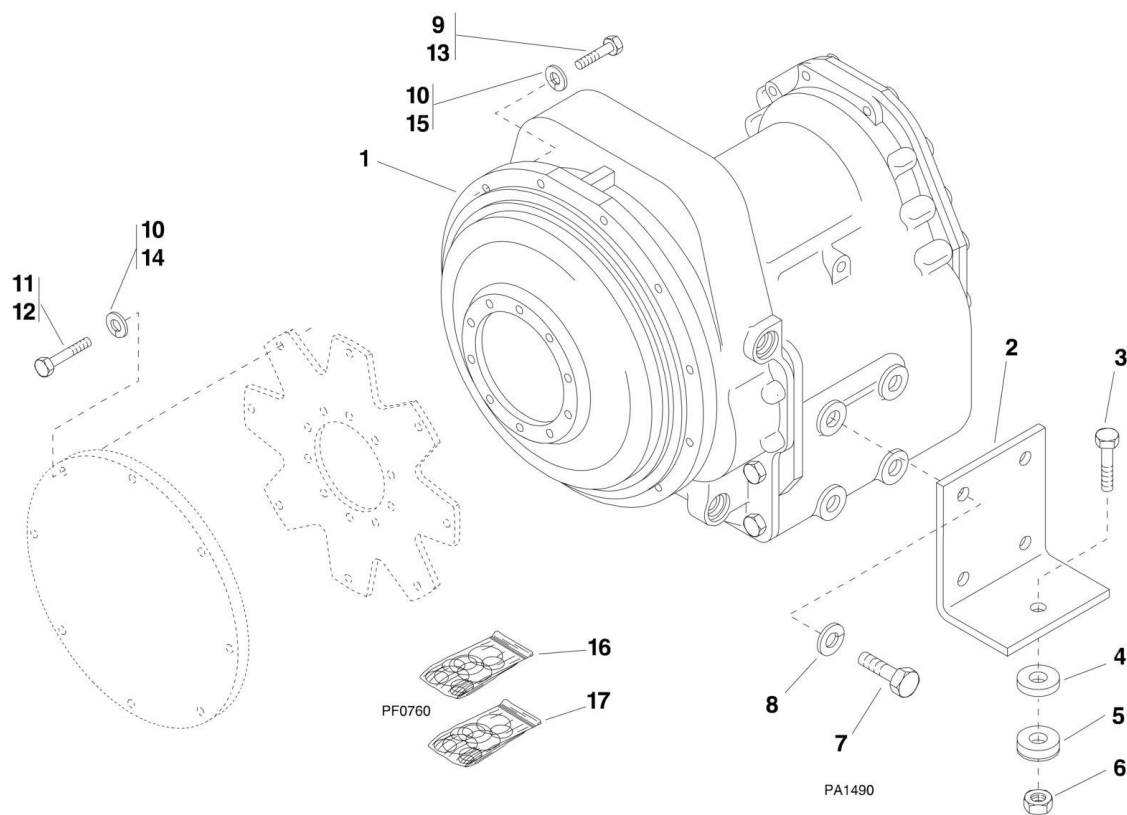
SECTION 3 - DRIVE TRAIN

FIGURE 3-25. DROP GEAR BOX (PERKINS AND CUMMINS ENGINES TURBO AND NAT.) (SN 9N0942 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8841020	1	Drop Box Assembly (Includes items 1 thru 24)	
1	8033447	1	Housing	
2	8033448	1	Housing	
3	8033449	1	Cover, Closed	
4	8033450	2	Cover, Open	
5	8033451	1	Pinion, Input, 69Teeth	
6	8033452	1	Pinion, Intermediate, 67 Teeth	
7	8033453	1	Pinion, Output, 69 Teeth	
8	8033454	6	Cup, Bearing	
9	8033455	6	Cone, Bearing	
10	8033456	15	Screw, Hex Hd Cap, 3/8-16 x 1in	
11	8033457	14	Nut, Hex 3/8-16	
12	8033459	14	Lockwasher, 3/8	
13	8033461	14	Screw, Hex Hd Cap, 3/8-16 x 1-1/2	
14	8033460	3	Washer, Flat 1in	
15	8033458	3	Nut, Lock	
16	8033462	2	Dowel, 3/8 x 3/4	
17	8032780	1	Plug, Magnetic Level, 5/8-18 NPT	
18	8032792	1	Washer, Copper	
19	8033464	1	Plug, 1/2-14NPT	
20	8032786	AR	Shim	
21	8032770	3	Seal	
22	8033466	1	Plug, Drain 3/8-18NPT	
23	8032950	1	Yoke, Input End	
24	8032766	2	Yoke, Output End	
25	8303692	4	Screw, Hex Hd Cap, 1/2 NC x 2-3/4 Gr 5	
26	8307007	4	Lockwasher, 1/2	

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FIGURE 3-26. TRANSMISSION MOUNTING (SN 9H0794 to Present)



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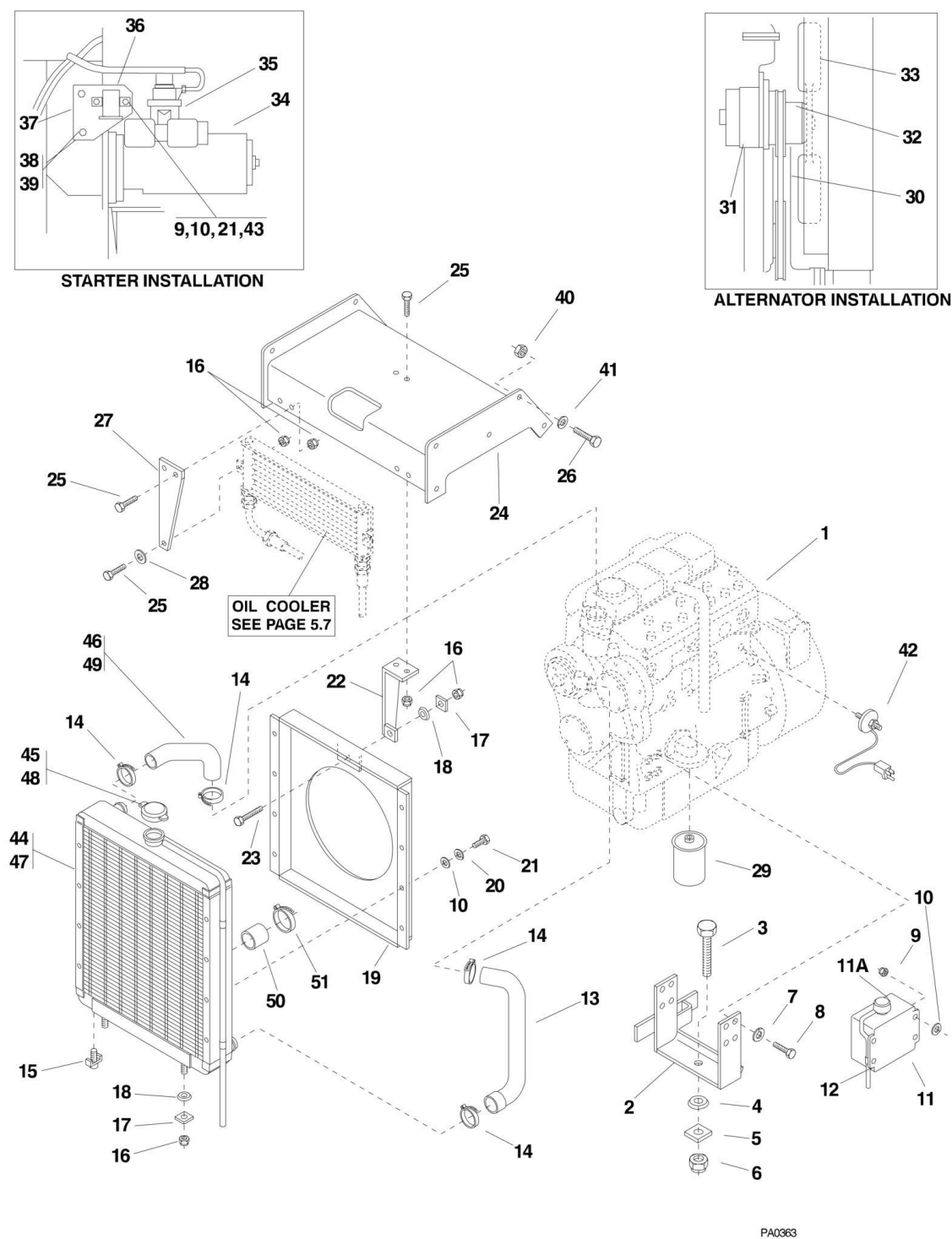
FIGURE 3-26. TRANSMISSION MOUNTING (SN 9H0794 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8841015	1	Transmission (For Perkins and Cummins Engines) (SN 9H0794 through 0E1179)	
1	8841023	1	Transmission (For Perkins and Cummins Engines) (SN 0E1180 to Present)	
2	7090942	2	Mount, Transmission	
3	8303707	2	Screw, Hex Hd Cap, 5/8 NC x 3.00 Gr 5	
4	7088511	2	Washer, Rebound	
5	8278009	2	Mount, Vibration	
6	8305643	2	Locknut, 5/8-NC ESNA	
7	8303664	8	Screw, Hex Hd Cap, 3/4-10 x 1.5 Gr 5	
8	8307010	8	Lockwasher, 3/4	
		Ref	ITEMS 9 THRU 11 - PERKINS ENGINES ONLY	
9	8303621	11	Screw, Hex Hd Cap, 3/8 NC x 1.5 Gr 5	
10	8307005	19	Lockwasher, 3/8	
11	8303659	8	Screw, Hex Hd Cap, 3/8NF x 2.0 Gr 5	
		Ref	ITEMS 12 THRU 15 - CUMMINS ENGINES ONLY	
12	8310038	8	Screw, Hex Hd Cap, 3/8 - 24 x 1.62 Gr	
13	8303778	11	Screw, Hex Hd Cap, M10 - 1.5 x 1.5	
14	8307005	8	Lockwasher 3/8	
15	8307023	11	Lockwasher M10	
		Ref	KITS	
16	8032958	1	Converter and Transmission Gasket and Sealing Kit	
17	8032959	1	Converter Section Gasket and Sealing Kit	

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FIGURE 4-1. ENGINE, RADIATOR AND OIL COOLER MOUNTING (PERKINS 4.236 - NATURAL)



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FIGURE 4-1. ENGINE, RADIATOR AND OIL COOLER MOUNTING (PERKINS 4.236 - NATURAL)

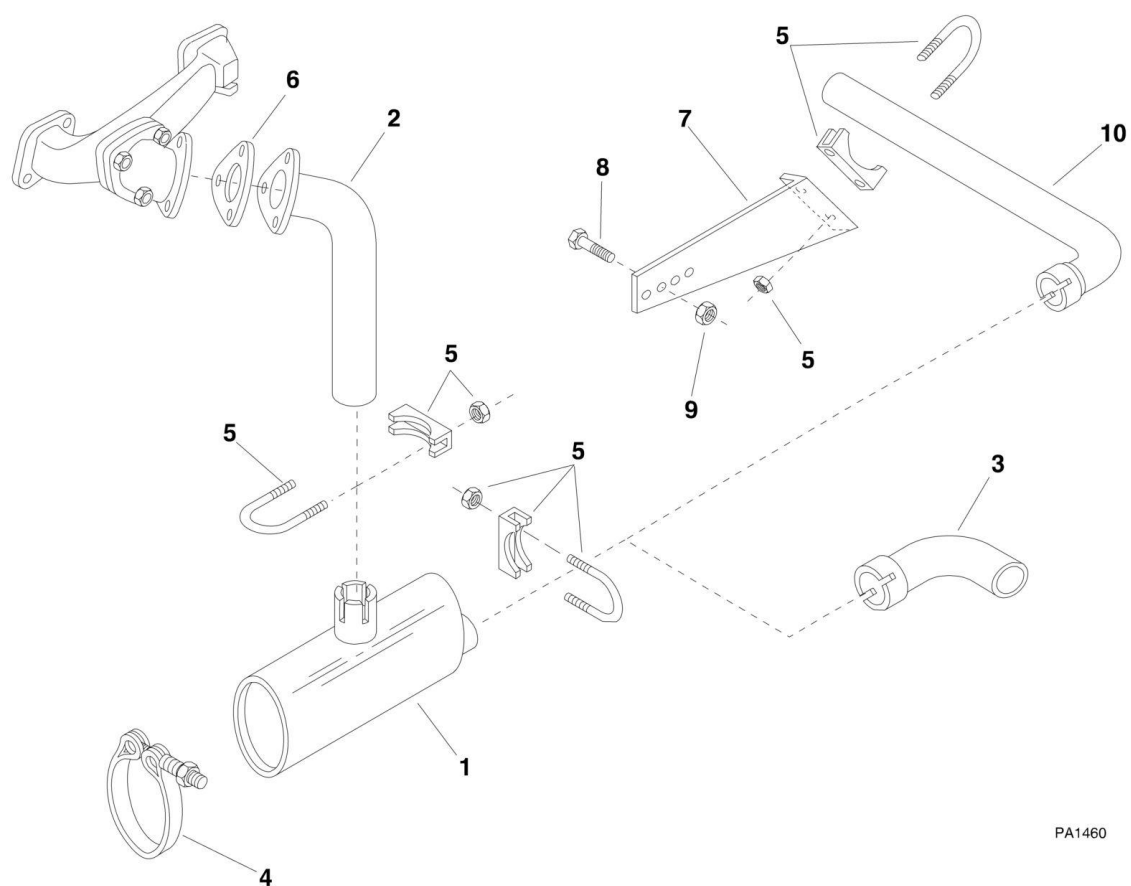
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8262117	1	Engine, Perkins 4.236 Diesel	
2	7083693	1	Mount, Engine	
3	8303640	1	Screw, Hex Hd Cap, 3/4-10 x 3.25	
4	8278007	1	Mount, Vibration	
5	7054351	1	Washer, Rebound	
6	8310067	1	Locknut, 3/4-10 ESNA	
7	8307006	8	Lockwasher, 7/16	
8	8303604	8	Screw, Hex Hd Cap, 7/16-18 x 1.25	
9	8305624	6	Locknut, 1/4-20	
10	8307202	17	Washer, Flat, 1/4	
11	7085422	1	Tank, Radiator Overflow (Includes Item 11A)	
11A	8866341	1	Cap w/Tether	
12	8406103	1	Clamp	
13	7082073	1	Hose, Radiator, Lower	
14	8405104	4	Clamp, Hose, 2-1/4	
15	8904001	1	Draincock, 1/4	
16	8305645	11	Locknut, 3/8-16	
17	7057141	3	Washer, Rebound	
18	8278008	3	Mount, Vibration	
19	7081703	1	Shroud, Radiator	
20	8307002	8	Washer, Lock, 1/4	
21	8303705	10	Screw, Hex Hd Cap, 1/4-20 x 0.75	
22	7088372	1	Support, Radiator	
23	8303622	1	Screw, Hex Hd Cap, 3/8-16 x 2.0	
24	7080343	1	Support, Rear (Prior to SN 0F1186)	
24	7091973	1	Crossmember (SN 0F1186 to Present, Excluding 0F1189, 0F1190 and 0F1191)	
25	8303621	8	Screw, Hex Hd Cap, 3/8-16 x 1.5	
26	8303686	10	Screw, Hex Hd Cap, 3/4-10 x 2 .50	
27	7083982	2	Support, Oil Cooler	
28	8307204	2	Washer, Flat, 3/8	
29	8320242	1	Element, Engine Oil Filter	
30	8080023	1	Belt, Fan	
31	8270221	1	Alternator	
32	8270220	1	Pulley, Alternator	
33	8272005	1	Fan, Cooling	
34	8006019	1	Starter	
35	8270412	1	Solenoid, Starter	
36	8277143	1	Relay, Starter	
37	7082452	1	Bracket, Starter Relay	
38	8303624	2	Screw, Hex Hd Cap, 1/2-12 X 1	
39	8307007	2	Lockwasher, 1/2	
40	8305017	10	Nut, Hex, 3/4-10	
41	8307010	10	Lockwasher, 3/4	
42	8277094	1	Heater, Engine Coolant (Option)	
43	8310002	2	Lockwasher, External Tooth 1/4	
44	7090331	1	Radiator (Includes Item 45) (Prior to SN 9G0779)	
45	8180306	1	Cap, Radiator (Prior to SN 9G0779)	
46	7082062	1	Hose, Radiator, Upper (Prior to SN 9G0779)	
47	7093803	1	Radiator (Includes item 48) (SN 9G0779 to Present)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
48	8180306	1	Cap, Radiator (SN 9G0779 to Present)	
49	7089943	1	Hose, Radiator Upper (SN 9G0779 to Present)	
50	8403224	1	Cap, Test (SN 9G0779 to Present)	
51	8405203	1	Clamp, Hose, 3.0in (SN 9G0779 to Present)	

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FIGURE 4-2. EXHAUST SYSTEM (PERKINS 4.236 - NATURAL)



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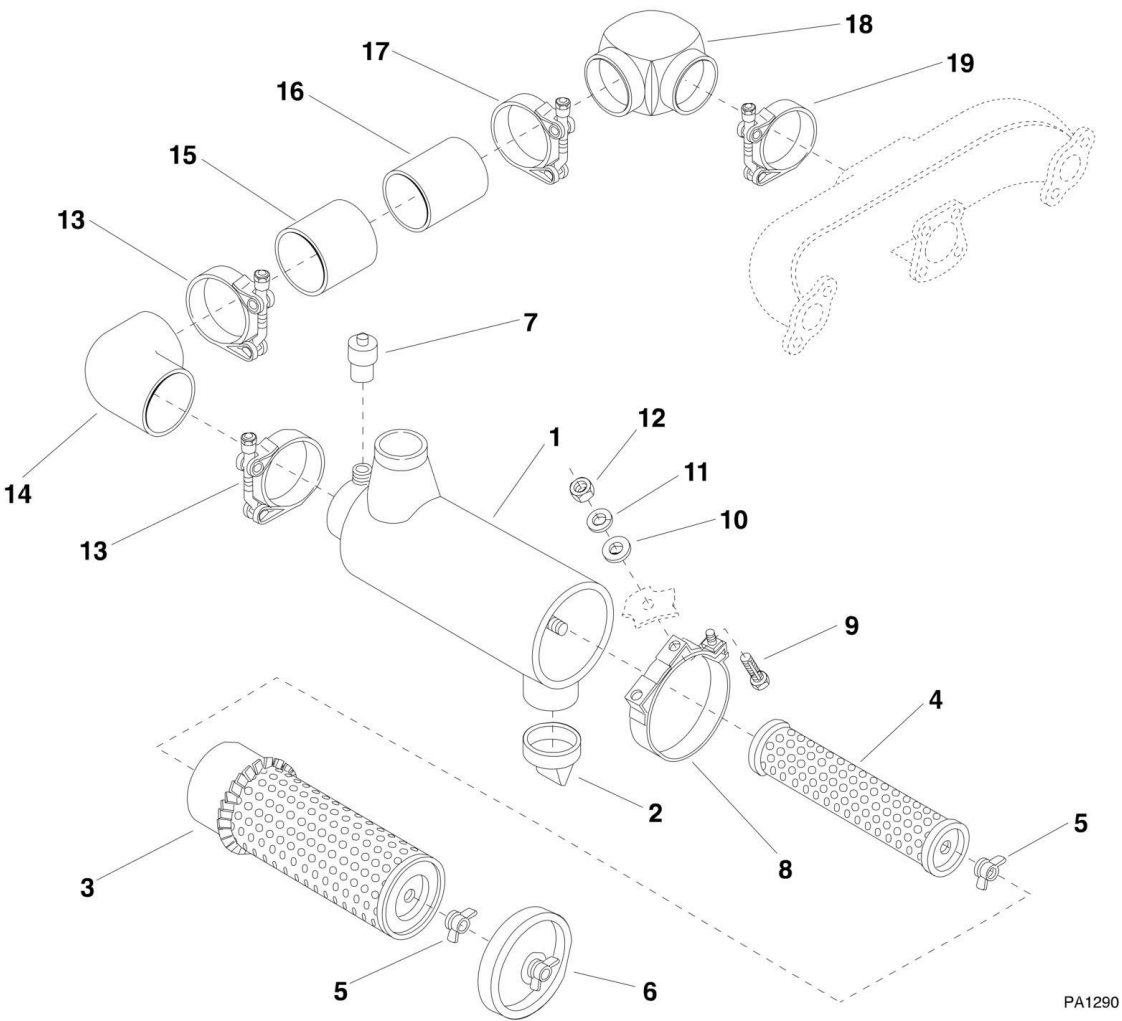
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FIGURE 4-2. EXHAUST SYSTEM (PERKINS 4.236 - NATURAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7079162	1	Muffler	
2	7079173	1	Pipe, Exhaust	
3	7080782	1	Pipe, Tail	
4	8405604	2	Clamp, T-Bolt	
5	8275212	3	Clamp, Muffler	
6	8030128	1	Gasket, Exhaust Manifold	
		Ref	The following 4 items are for machines with right side exhaust only (SN 8H0298 to Present)	
7	7088362	1	Support, Tail Pipe	
8	8303621	2	Screw, Hex Hd Cap, 3/8-16 x 1-1/2	
9	8305645	2	Locknut, 3/8-16 x 1-1/2	
10	7086742	1	Pipe, Tail	

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FIGURE 4-3. AIR CLEANER (PERKINS 4.236 - NATURAL (Prior to SN 0F1186)



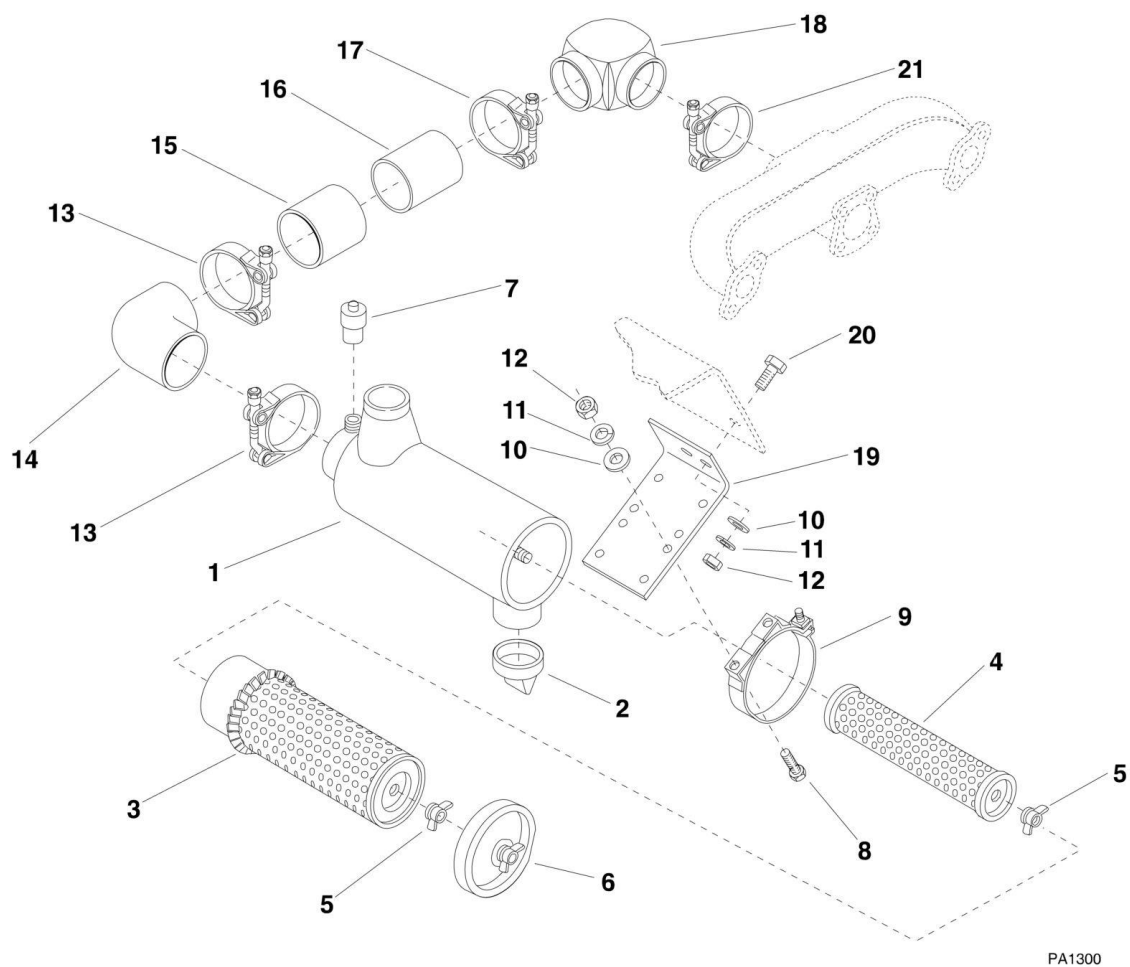
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FIGURE 4-3. AIR CLEANER (PERKINS 4.236 - NATURAL (Prior to SN 0F1186))

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8273017	1	Air Cleaner Assembly (Includes Items 2 thru 6)	
2	8032764	1	Valve, Vacuator	
3	8273267	1	Element, Primary	
4	8273271	1	Element Safety	
5	8237272	2	Nut Assembly	
6	8032763	1	Cover, End	
7	8373241	1	Indicator, Service, 25in	
8	8273266	2	Band, Mounting, Air Cleaner	
9	8303697	4	Screw, Hex Hd Cap, 5/16-18 x 3/4, Gr 5	
10	8307203	4	Washer, Flat, 5/16	
11	8307004	4	Lockwasher, 5/16	
12	8305006	4	Nut, Hex, 5/16-18	
13	8405305	2	Clamp, Hose, 3.38 to 3.69in	
14	8273119	1	Elbow, 3 x 90	
15	8402020-0025	1	Hose, 2-1/2 ID x 3.00 OD x 2-1/2	
16	7080981	1	Tube, Air Intake	
17	8405212	1	Clamp, Hose, 2.69 to 3.00in	
18	8273269	1	Elbow, Reducing 90	
19	8405211	1	Clamp, Hose, 2.50 to 2.81in	

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FIGURE 4-4. AIR CLEANER (PERKINS 4.236 - NATURAL) (SN 0F1186 to Present)



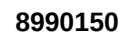
SECTION 4 - POWER PLANT

FIGURE 4-4. AIR CLEANER (PERKINS 4.236 - NATURAL) (SN 0F1186 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8273017	1	Air Cleaner Assembly (Includes Items 2 thru 6)	
2	8032764	1	Valve, Vacuator	
3	8273267	1	Element, Primary	
4	8273271	1	Element, Safety	
5	8273272	2	Nut Assembly	
6	8032763	1	Cover, End	
7	8273241	1	Indicator, Service, 25in	
8	8273266	2	Band, Mounting, Air Cleaner	
9	8303697	4	Screw, Cap, Hex Hd, 5/16-18 x 3/4	
10	8307203	6	Washer, Flat, 5/16	
11	8307004	6	Lockwasher, 5/16	
12	8305006	6	Nut, Hex, 5/16-18	
13	8405305	2	Clamp, Hose, 3.38 to 3.69in	
14	8273119	1	Elbow, 3 x 90	
15	8402020-0025	1	Hose, 2-1/2 ID x 3.00 OD x 2-1/2	
16	7080981	1	Tube, Air Intake	
17	8405212	1	Clamp, Hose, 2.69 to 3.00in	
18	8273269	1	Elbow, Reducing 90	
19	7091902	1	Bracket, Air Cleaner	
20	8303739	2	Screw, Hex Hd Cap, 5/16-18 x 1-1/4	
21	8405211	1	Clamp, Hose, 2.50 to 2.81in	

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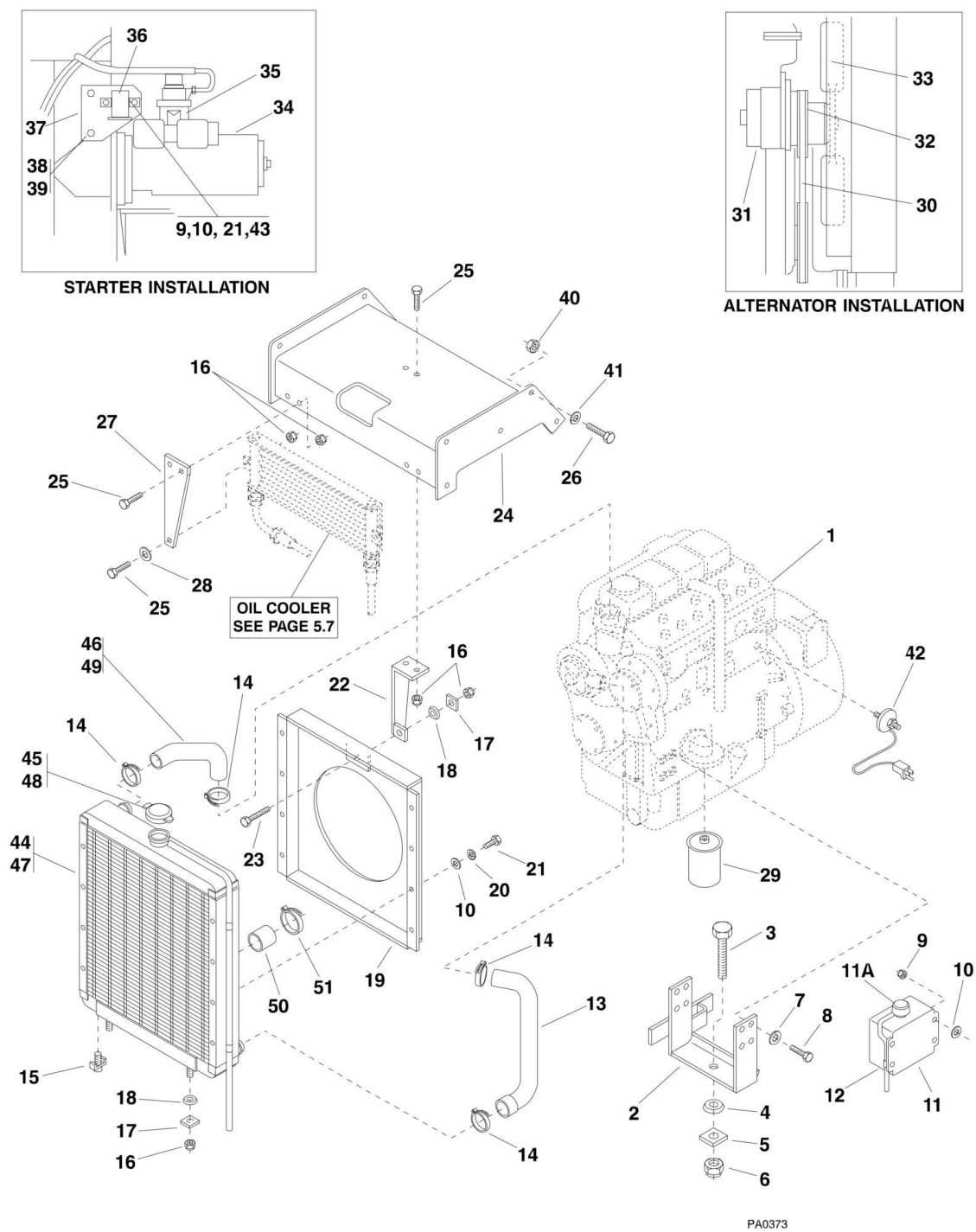
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FIGURE 4-5. FUEL SYSTEM (PERKINS ENGINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7078583	1	Tank, Fuel (Includes items 2 thru 7)	
2	8033111	1	Cap, Filler, w/tether	
3	8033109	1	Elbow, 90, w/standpipe	
4	8033175	1	Bushing, Rubber	
5	8033176	1	Elbow, 90, w/standpipe	
6	8405101	1	Clamp, Hose	
7	N.S.S.	1	Tank, Fuel	
8	8405009	6	Clamp, Hose	
9	8310180	5	Screw, Machine, 10-24 x 3/8	
10	8307003	5	Lockwasher, #10	
11	7070992	1	Sender, Fuel Level	
12	8584001	2	Tie Wrap	
13	8403214-1290	1	Hose, Fuel Return, 1/4 x 129.0	
14	8403219-1400	1	Hose, Fuel Supply, 5/16 x 140.0	
15	8403219-0300	1	Hose, Fuel Supply, 5/16 x 30.0	
16	8406101	1	Support, Hose, 5/8	
17	7091291	1	Tube, Fuel Filter (Natural) (Not Shown)	
17	7076721	1	Tube, Fuel Filter (Turbo) (Shown)	
18	7092121	1	Tube, Fuel Filter (Natural) (Not Shown)	
18	7047232	1	Tube, Fuel Filter (Turbo) (Shown)	
19	7091291	2	Tube, Fuel Filter (Natural) (Not Shown)	
19	7076711	2	Tube, Fuel Filter (Turbo) (Shown)	
20	8303624	2	Screw, Hex Hd Cap, 1/2-13 x 1.0	
21	8307007	2	Lockwasher, 1/2	
22	8303621	2	Screw, Hex Hd Cap, 3/8-16 x 1.5	
23	8305645	2	Nut, Hex Lock, 3/8-16	
24	7083621	1	Bar, Mounting	
25	8274012	1	Fuel Pre-Filter	
26	8030943	1	Fuel Filter Assembly (See Kits)	
		Ref	KITS	
27	8825183	1	Fuel Filter Element Kit	

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FIGURE 4-6. ENGINE, RADIATOR AND OIL COOLER MOUNTING (PERKINS 4.236T - TURBO)



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FIGURE 4-6. ENGINE, RADIATOR AND OIL COOLER MOUNTING (PERKINS 4.236T - TURBO)

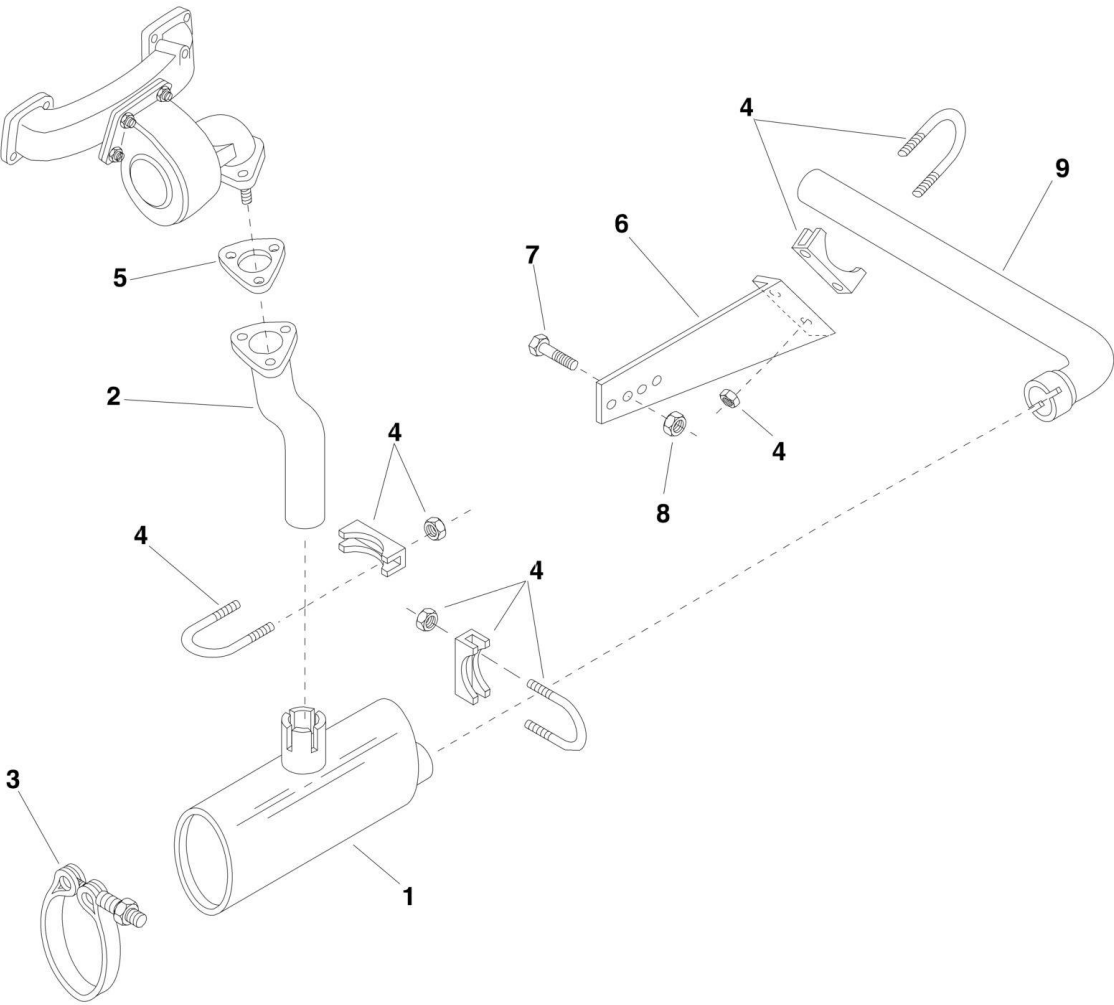
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8262125	1	Engine, Perkins 4.236 Diesel	
2	7083693	1	Mount, Engine	
3	8303640	1	Screw, Hex Hd Cap, 3/4-10 x 3.25	
4	8278007	1	Mount, Vibration	
5	7054351	1	Washer, Rebound	
6	8310067	1	Locknut, 3/4-10 ESNA	
7	8307006	8	Lockwasher, 7/16	
8	8303604	8	Screw, Hex Hd Cap, 7/16-18 x 1.25	
9	8305624	6	Locknut, 1/4-20	
10	8307202	17	Washer, Flat, 1/4	
11	7085422	1	Tank, Radiator Overflow (Includes Item 11A)	
11A	8866341	1	Cap w/Tether	
12	8406103	1	Clamp	
13	7082073	1	Hose, Radiator, Lower	
14	8405104	4	Clamp, Hose, 2-1/4	
15	8904001	1	Draincock, 1/4	
16	8305645	11	Locknut, 3/8-16	
17	7057141	3	Washer, Rebound	
18	8278008	3	Mount, Vibration	
19	7081703	1	Shroud, Radiator	
20	8307002	8	Washer, Lock, 1/4	
21	8303705	10	Screw, Hex Hd Cap, 1/4-20 x 0.75	
22	7088372	1	Support, Radiator	
23	8303622	1	Screw, Hex Hd Cap, 3/8-16 x 2.0	
24	7080343	1	Support, Rear	
25	8303621	8	Screw, Hex Hd Cap, 3/8-16 x 1.5	
26	8303686	10	Screw, Hex Hd Cap, 3/4-10 x 2 .50	
27	7083982	2	Support, Oil Cooler	
28	8307204	2	Washer, Flat, 3/8	
29	8320242	1	Element, Engine Oil Filter	
30	8080023	1	Belt, Fan	
31	8270221	1	Alternator	
32	8080220	1	Pulley, Alternator	
33	8272005	1	Fan, Cooling	
34	8006019	1	Starter	
35	8270412	1	Solenoid, Starter	
36	8277143	1	Relay, Starter	
37	7082452	1	Bracket, Starter Relay	
38	8303624	2	Screw, Hex Hd Cap, 1/2-12 X 1	
39	8307007	2	Lockwasher, 1/2	
40	8305017	10	Nut, Hex, 3/4-10	
41	8307010	10	Lockwasher, 3/4	
42	8277094	1	Heater, Engine Coolant (Option)	
43	8310002	2	Lockwasher, External Tooth 1/4	
44	7090331	1	Radiator (Includes Item 45) (Prior to SN 9G0779)	
45	8180306	1	Cap, Radiator (Prior to SN 9G0779)	
46	7082062	1	Hose, Radiator, Upper (Prior to SN 9G0779)	
47	7093803	1	Radiator (Includes item 48) (SN 9G0779 to Present)	
48	8180306	1	Cap, Radiator (SN 9G0779 to Present)	
49	7089943	1	Hose, Radiator Upper (SN 9G0779 to Present)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
50	8403224	1	Cap, Test (SN 9G0779 to Present)	
51	8405203	1	Clamp, Hose, 3.0in (SN 9G0779 to Present)	

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FIGURE 4-7. EXHAUST SYSTEM (PERKINS 4.236T - TURBO)



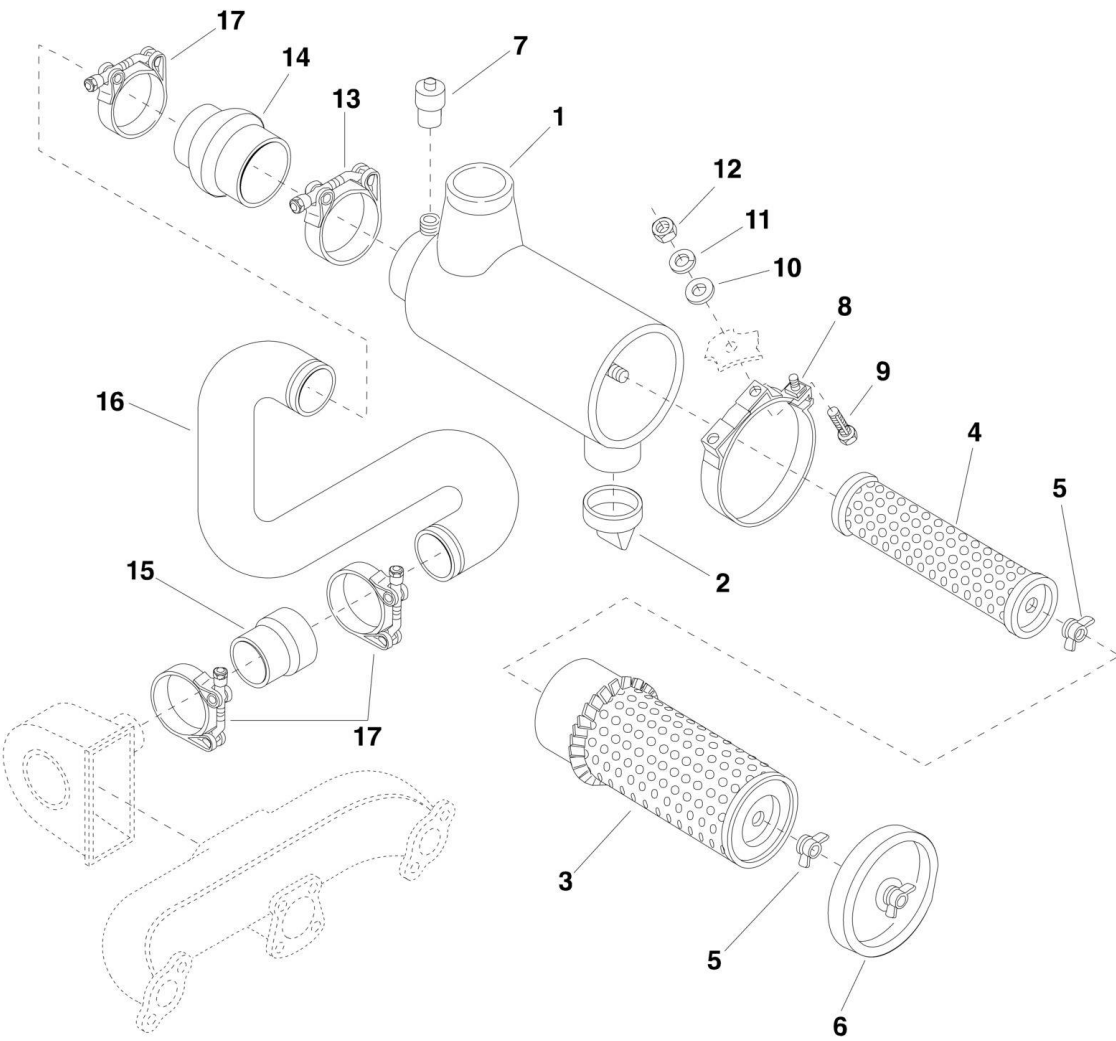
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FIGURE 4-7. EXHAUST SYSTEM (PERKINS 4.236T - TURBO)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7079162	1	Muffler	
2	7086183	1	Pipe, Exhaust	
3	8405604	2	Clamp, T-Bolt	
4	8275212	3	Clamp, Muffler	
5	8030128	1	Gasket, Exhaust Manifold	
6	7088362	1	Support, Tail Pipe	
7	8303622	2	Screw, Hex Hd Cap 3/8-16 x 2-1/2	
8	8305645	2	Locknut, 3/8-16 ESNA	
9	7086742	1	Pipe, Tail	

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FIGURE 4-8. AIR CLEANER (PERKINS 4.236T - TURBO)



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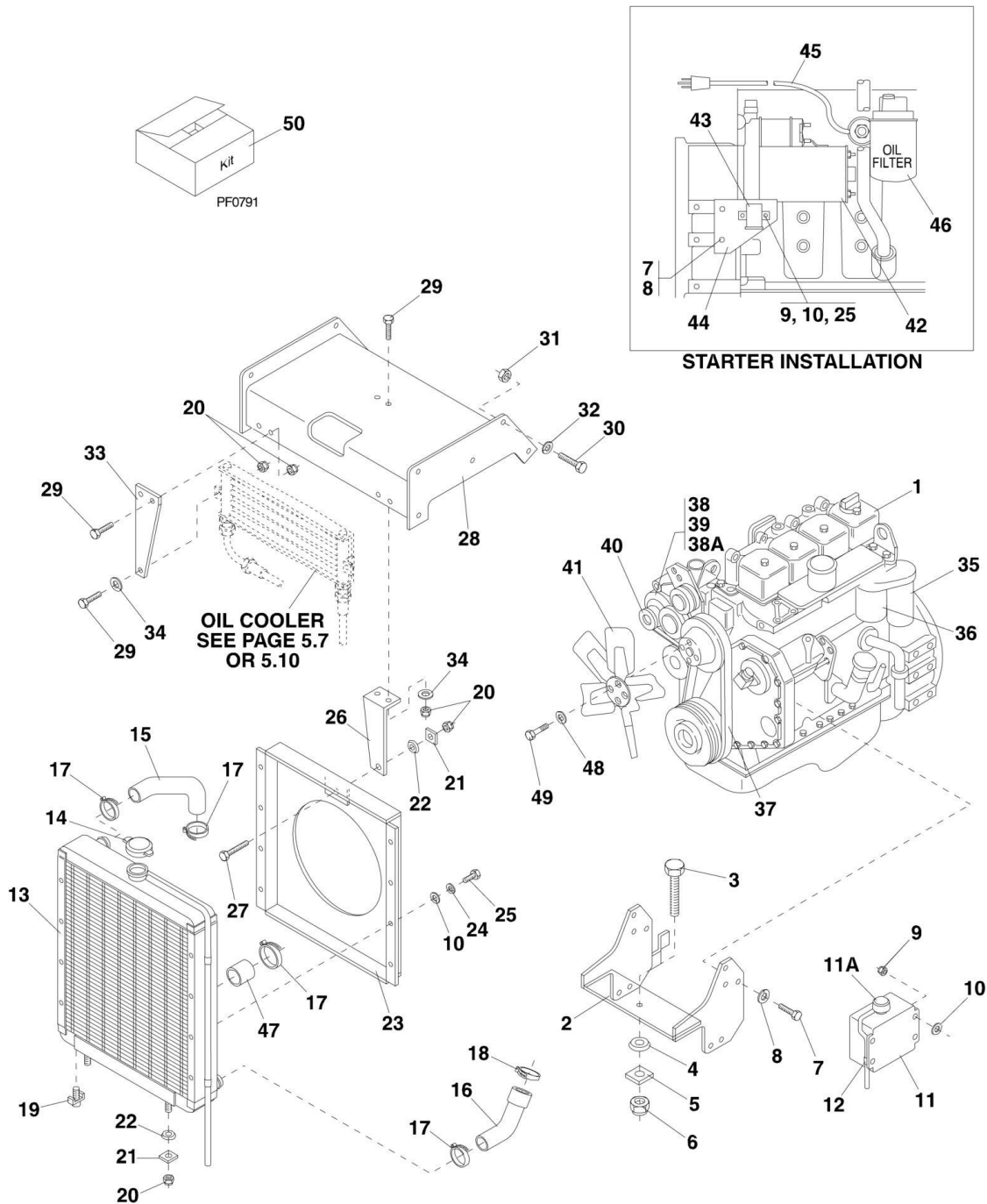
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FIGURE 4-8. AIR CLEANER (PERKINS 4.236T - TURBO)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8273013	1	Air Cleaner Assembly (Includes Items 2 thru 6)	
2	8032764	1	Valve, Vacuator	
3	8273237	1	Element, Primary	
4	8273238	1	Element, Safety	
5	8273272	2	Nut Assembly	
6	8032762	1	Cover, End	
7	8273241	1	Indicator, Service, 25in	
8	8273240	2	Band, Mounting, Air Cleaner	
9	8303697	4	Screw, Cap, Hex Hd, 5/16-18 x 3/4	
10	8307203	4	Washer, Flat, 5/16	
11	8307004	4	Lockwasher, 5/16	
12	8305006	4	Nut, Hex, 5/16-18	
13	8405305	1	Clamp, Hose, 3.38 to 3.69in	
14	8273117	1	Hump Hose	
15	8273118	1	Reducer, Hose	
16	7086163	1	Tube, Air Intake	
17	8405212	3	Clamp, Hose, 2.69 to 3.00in	

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FIGURE 4-9. ENGINE, RADIATOR AND OIL COOLER MOUNTING (CUMMINS 4B3.9 - NATURAL) (Prior to SN 1526)



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FIGURE 4-9. ENGINE, RADIATOR AND OIL COOLER MOUNTING (CUMMINS 4B3.9 - NATURAL) (Prior to SN 1526)

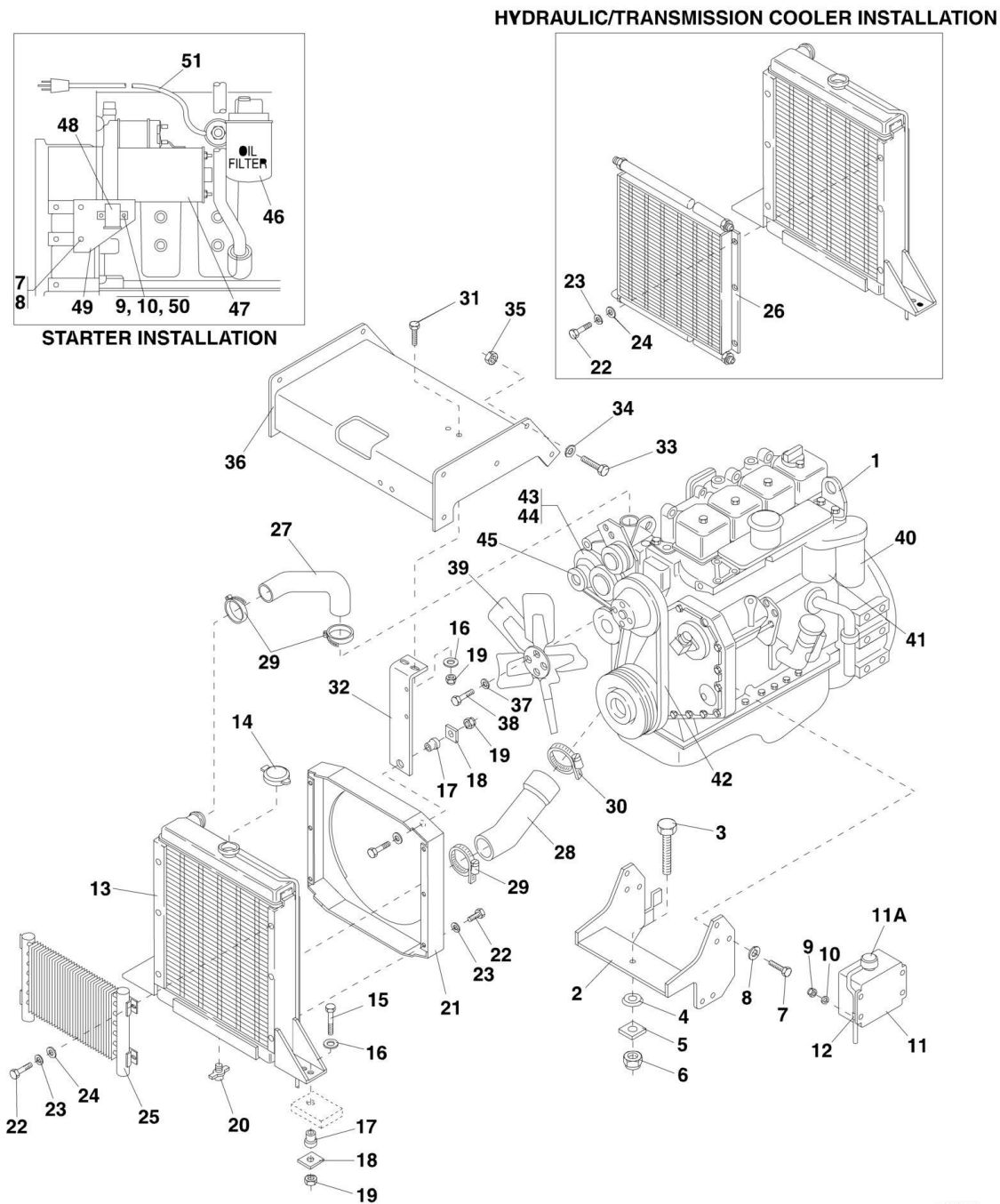
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8262129	1	Engine, Cummins 4B3.9 Natural	
2	7088413	1	Mount, Engine	
3	8303640	1	Screw, Hex Hd Cap, 3/4-10 x 3.25	
4	8278007	1	Mount, Vibration	
5	7054351	1	Washer, Rebound	
6	8310067	1	Locknut, 3/4-10 ESNA	
7	8303790	10	Screw, Hex Hd Cap, M12 x 30MM	
8	8307025	10	LOCKWASHER, M12	
9	8305624	6	Locknut, 1/4-20	
10	8307202	14	Washer, Flat, 1/4	
11	7085422	1	Tank, Radiator Overflow (Includes Item 11A)	
11A	8866341	1	Cap w/Tether	
12	8406103	1	Support, Hose, 0.62	
13	7093803	1	Radiator (Includes item 14)	
14	81800306	1	Cap, Radiator	
15	7088314	1	Hose, Radiator, Upper	
16	7088322	1	Hose, Radiator, Lower	
17	8405104	4	Clamp, Hose, 2.25	
18	8405203	2	Clamp, Hose, 3.0	
19	8904001	1	Draincock, 1/4	
20	8305645	11	LOCKNUT, 3/8-16	
21	7057141	3	Washer, Rebound	
22	8278008	3	Mount, Vibration	
23	7088303	1	Shroud, Radiator	
24	8307002	8	Washer, Lock, 1/4	
25	8303705	10	Screw, Hex Hd Cap, 1/4-20 x 0.75	
26	7088372	1	Support, Radiator	
27	8303622	1	Screw, Hex Hd Cap, 3/8-16 x 2.0	
28	7091973	1	Crossmember, Rear Frame	
29	8303621	8	Screw, Hex Hd Cap, 3/8-16 x 1.5	
30	8303686	10	Screw, Hex Hd Cap, 3/8-16 x 2.50	
31	8305017	10	Nut, Hex, 3/4-10	
32	8307010	10	Lockwasher, 3/4	
33	7083982	2	Support, Oil Cooler	
34	8307204	4	Washer, Flat, 3/8	
35	8320253	1	Element, Fuel Filter, Primary	
36	8320250	1	Element, Fuel Filter, Secondary	
37	8080613	1	Belt, Fan	
38	8270220	1	Fan, Alternator, (Not Shown)	
39	See Item 39A	1	Alternator, (Motorola or Prestolite Types)	
39A	8270219	1	Alternator, (Delco Type)	
39A	8270221	1	Alternator, Bosch Type	
40	8033342	1	Pulley, Alternator	
41	8272009	1	Fan, Cooling 17in Puller	
42	8270416	1	Starter	
43	8277143	1	Relay, Starter	
44	7082452	1	Bracket, Starter Relay	
45	7088352	1	Kit, Engine Coolant Heater (Option)	
46	8320262	1	Element, Engine Oil Filter	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	8403224	1	Cap, Test	
48	8307222	4	Washer, Flat, M8	
49	8310028	4	Screwm Hex Hd Cap, M8 x 70MM	
		Ref	KITS	
50	7098461	1	Kit, Radiator Connection (Includes one of each Items 17 & 47)	

SECTION 4 - POWER PLANT

FIGURE 4-10. ENGINE RADIATOR AND OIL COOLER MOUNTING (CUMMINS 4B3.9 - NATURAL) (SN 1526 to Present)



PA1750

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FIGURE 4-10. ENGINE RADIATOR AND OIL COOLER MOUNTING (CUMMINS 4B3.9 - NATURAL) (SN 1526 to Present)

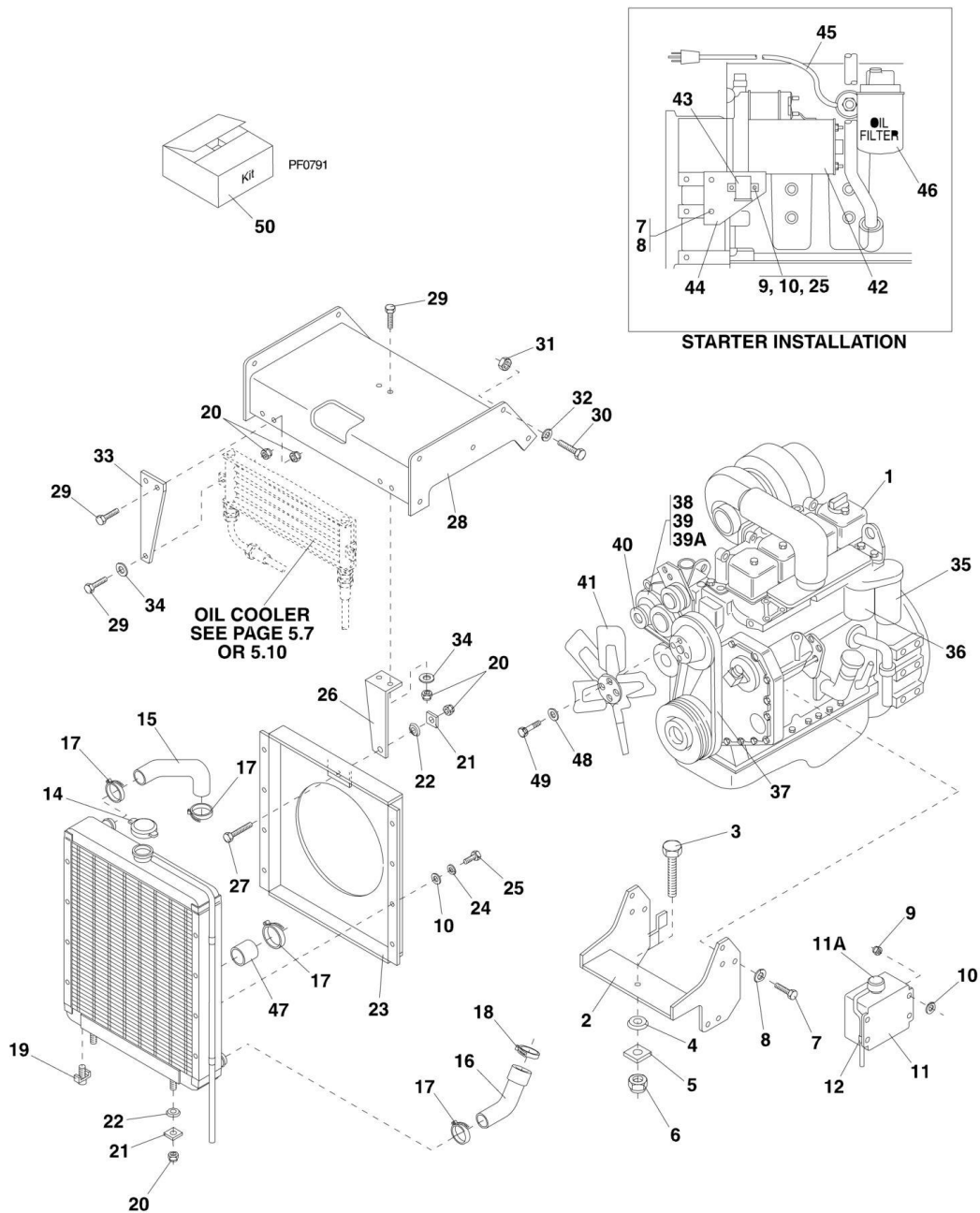
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8262129	1	Engine, Cummins 4B3.9 Natural	
2	7088413	1	Mount, Engine	
3	8303640	1	Screw, Hex Hd Cap, 3/4-10 x 3.25	
4	8278007	1	Mount, Vibration	
5	7054351	1	Washer, Rebound	
6	8310067	1	Locknut, 3/4-10 ESNA	
7	8303790	10	Screw, Hex Hd Cap, M12 x 30MM	
8	8307025	10	Lockwasher, M12	
9	8305624	6	Locknut, 1/4-20	
10	8307109	6	Washer, Flat, 1/4	
11	7085422	1	Tank, Radiator Overflow (Includes Item 11A)	
11A	8866341	1	Cap w/Tether	
12	8406103	1	Support, Hose, 0.62	
13	7112434	1	Radiator (Includes item 14)	
14	8180307	1	Cap, Radiator	
15	8303622	3	Screw, Hex Hd Cap, 3/8-16 x 2.0	
16	8307204	4	Washer, Flat, 3/8	
17	8278008	3	Mount, Vibration	
18	7057141	3	Washer, Rebound	
19	8305645	11	Locknut, 3/8-16	
20	8904001	1	Draincock, 1/4	
21	7099943	1	Shroud, Radiator	
22	8303744	10	Screw, Hex Hd Cap, 3/8-16 x 1/2	
23	8307004	10	Lockwasher, 3/8	
24	8307106	6	Washer, Flat, 3/8	
25	2712993	1	Oil Cooler, Transmission	
26	2713054	1	Oil Cooler, Transmission/Hydraulic (Optional, See HYDRAULIC CIRCUIT for Breakdown)	
27	7093783	1	Hose, Radiator, Upper	
28	7093772	1	Hose, Radiator, Lower	
29	8405104	3	Clamp, Hose, 2.25	
30	8405203	1	Clamp, Hose, 3.0	
31	8303679	2	Screw, Hex Hd Cap, 3/8-16 x 1.75	
32	7112492	1	Support, Radiator	
33	8303686	10	Screw, Hex Hd Cap, 3/4-10 x 2.50	
34	8307010	10	Lockwasher, 3/4	
35	8305017	10	Nut, Hex, 3/4-1	
36	7091973	1	Crossmember, Rear Frame	
37	8307222	4	Washer, Flat, M8	
38	8310028	4	Screw, Hex Hd Cap, M8 x 70MM	
39	8272009	1	Fan, Cooling 17in Puller	
40	8320253	1	Element, Fuel Filter - Primary	
41	8320250	1	Element, Fuel Filter - Secondary	
42	8080613	1	Belt, Fan	
43	8270220	1	Fan, Alternator (Not Shown)	
44	8270221	1	Alternator (Bosch type)	
45	8033342	1	Pulley, Alternator	
46	8320262	1	Element, Engine Oil Filter	
47	8270416	1	Starter	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
48	8277143	1	Relay, Starter	
49	7082452	1	Bracket, Starter	
50	8303705	2	Screw, Hex Hd Cap, 1/4-20 x 0.75	
51	7088352	1	Kit, Engine Coolant Heater (Optional)	

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FIGURE 4-11. ENGINE RADIATOR AND OIL COOLER MOUNTING (CUMMINS 4BT3.9 - TURBO) (Prior to SN 1526)



SECTION 4 - POWER PLANT

FIGURE 4-11. ENGINE RADIATOR AND OIL COOLER MOUNTING (CUMMINS 4BT3.9 - TURBO) (Prior to SN 1526)

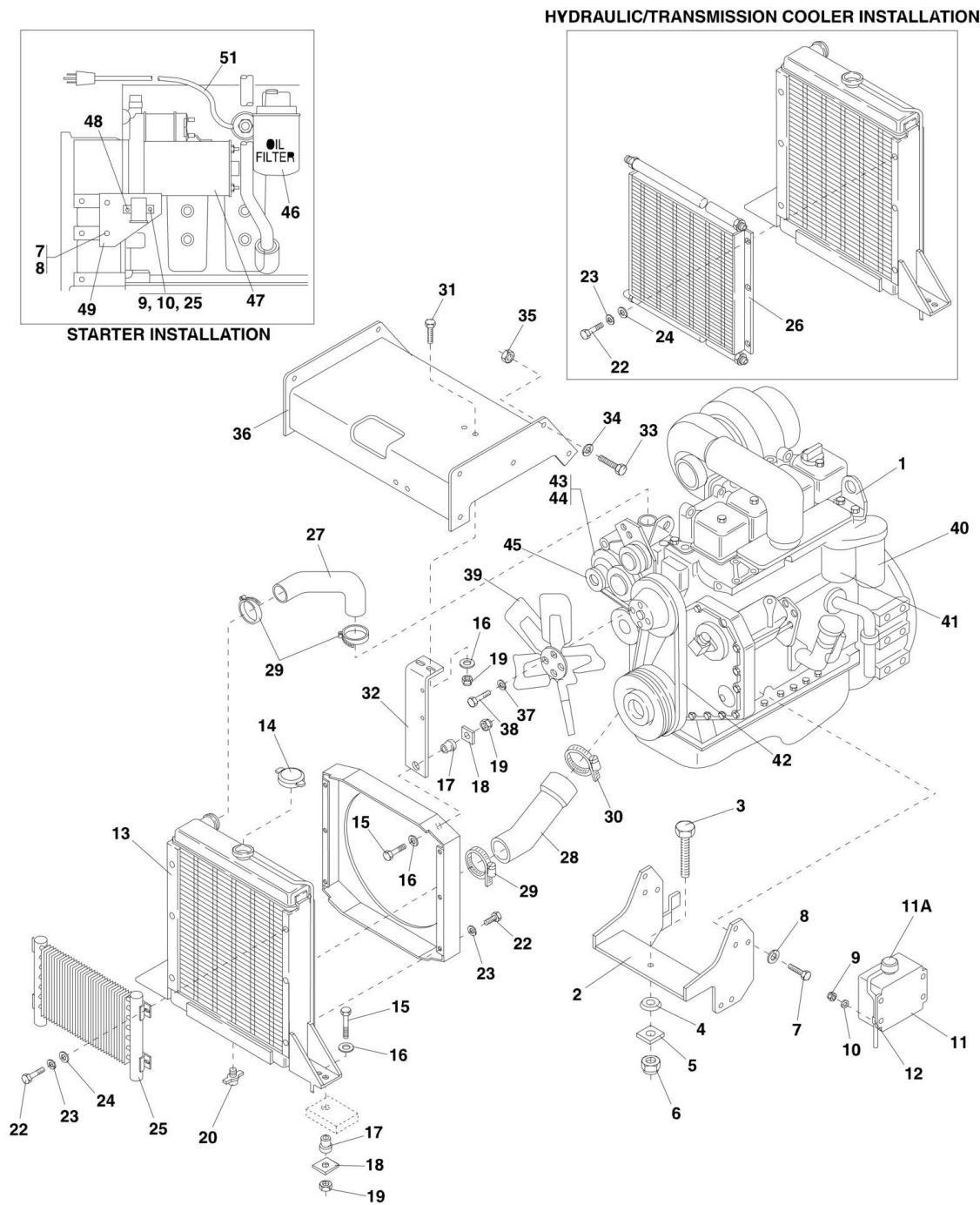
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8262127	1	Engine, Cummins 4B3.9 Turbo	
2	7088413	1	Mount, Engine	
3	8303640	1	Screw, Hex Hd Cap, 3/4-10 x 3.25	
4	8278007	1	Mount, Vibration	
5	7054351	1	Washer, Rebound	
6	8310067	1	Locknut, 3/4-10 ESNA	
7	8303790	10	Screw, Hex Hd Cap, M12 x 30MM	
8	8307025	10	Lockwasher, M12	
9	8305624	6	Locknut, 1/4-20	
10	8307202	14	Washer, Flat, 1/4	
11	7085422	1	Tank, Radiator Overflow (Includes Item 11A)	
11A	8866341	1	Cap w/Tether	
12	8406103	1	Support, Hose, 0.62	
13	7093803	1	Radiator (Includes item 14)	
14	8180306	1	Cap, Radiator	
15	7088314	1	Hose, Radiator, Upper	
16	7088322	1	Hose, Radiator, Lower	
17	8405104	4	Clamp, Hose, 2.25	
18	8405203	2	Clamp, Hose, 3.0	
19	8904001	1	Draincock, 1/4	
20	8305645	11	Locknut, 3/8-16	
21	7057141	3	Wahser, Rebound	
22	8278008	3	Mount, Vibration	
23	7088303	1	Shroud, Radiator	
24	8307002	8	Washer, Lock 1/4	
25	8303705	10	Screw, Hex Hd Cap, 1/4-20 x 0.75	
26	7088372	1	Support, Radiator	
27	8303622	1	Screw, Hex Hd Cap, 3/8-16 x 2.0	
28	7091973	1	Crossmember, Rear Frame	
29	8303621	8	Screw, Hex Hd Cap, 3/8-16 x 1.5	
30	8303686	10	Screw, Hex Hd Cap, 3/4-10 x 2.50	
31	8305017	10	Nut, Hex, 3/4-10	
32	8307010	10	Lockwasher, 3/4	
33	7083982	2	Support, Oil Cooler	
34	8307204	4	Washer, Flat, 3/8	
35	8320253	1	Element, Fuel Filter - Primary	
36	8320250	1	Element, Fuel Filter - Secondary	
37	8080613	1	Belt, Fan	
38	8270220	1	Fan, Alternator (Not Shown)	
39	See Item 39A	1	Alternator (Motorola or Prestolite Type)	
39A	8270219	1	Alternator (Delco type)	
39A	8270221	1	Alternator (Bosch type)	
40	8033342	1	Pulley, Alternator	
41	8272009	1	Fan, Cooling 17in Puller	
42	8270416	1	Starter	
43	8277143	1	Relay, Starter	
44	7082452	1	Bracket, Starter Relay	
45	7088352	1	Kit, Engine Coolant Heater (Option)	
46	8320262	1	Element, Engine Oil Filter	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
47	8403223	1	Cap, Test	
48	8307222	4	Washer, Flat, M8	
49	8310028	4	Screw,Hex Hd Cap, M8 x 70MM	
		Ref	Kits	
50	7098461	1	Kit, Radiator Connection (Includes one of each Items 17 & 47)	

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FIGURE 4-12. ENGINE RADIATOR AND OIL COOLER MOUNTING (CUMMINS 4BT3.9 - TURBO) (SN 1526 to Present)



SECTION 4 - POWER PLANT

FIGURE 4-12. ENGINE RADIATOR AND OIL COOLER MOUNTING (CUMMINS 4BT3.9 - TURBO) (SN 1526 to Present)

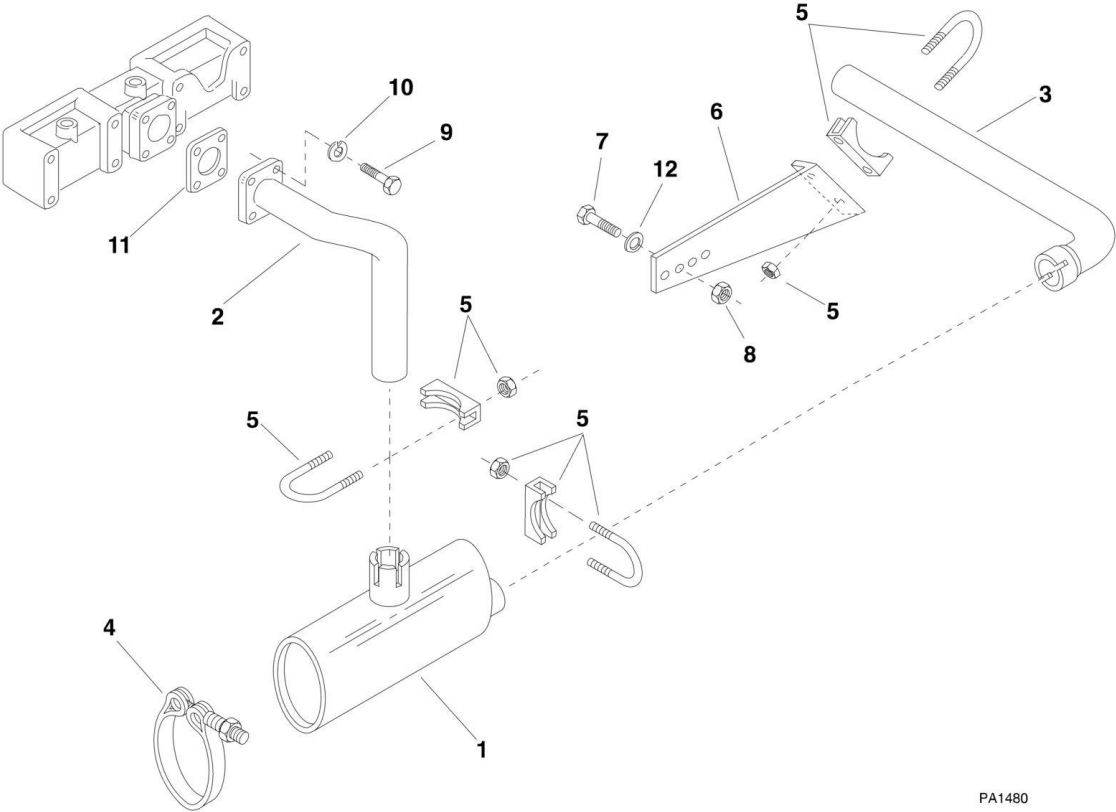
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8262127	1	Engine, Cummins 4B3.9 Turbo	
2	7088413	1	Mount, Engine	
3	8303640	1	Screw, Hex Hd Cap, 3/4-10 x 3.25	
4	8278007	1	Mount, Vibration	
5	7054351	1	Washer, Rebound	
6	8310067	1	Locknut, 3/4-10 ESNA	
7	8303790	10	Screw, Hex Hd Cap, M12 x 30MM	
8	8307025	10	LOCKWASHER, M12	
9	8305624	6	Locknut, 1/4-20	
10	8307109	6	Washer, Flat, 1/4	
11	7085422	1	Tank, Radiator Overflow (Includes Item 11A)	
11A	8866341	1	Cap w/Tether	
12	8406103	1	Support, Hose, 0.62	
13	7112434	1	Radiator (Includes item 14)	
14	8180307	1	Cap, Radiator	
15	8303622	3	Screw, Hex Hd Cap, 3/8-16 x 2.0	
16	8307204	4	Washer, Flat, 3/8	
17	8278008	3	Mount, Vibration	
18	7057141	3	Washer, Rebound	
19	8305645	11	Locknut, 3/8-16	
20	8904001	1	Draincock, 1/4	
21	7099943	1	Shroud, Radiator	
22	8303744	10	Screw, Hex Hd Cap, 3/8-16 x 1/2	
23	8307004	10	Lockwasher, 3/8	
24	8307106	6	Washer, Flat, 3/8	
25	2712993	1	Oil Cooler, Transmission	
26	2713054	1	Oil Cooler, Transmission/Hydraulic (Optional, Page 5.10.1)	
27	7093783	1	Hose, Radiator, Upper	
28	7093772	1	Hose, Radiator, Lower	
29	8405104	3	Clamp, Hose, 2.25	
30	8405203	1	Clamp, Hose, 3.0	
31	8303679	2	Screw, Hex Hd Cap, 3/8-16 x 1.75	
32	7112492	1	Support, Radiator	
33	8303686	10	Screw, Hex Hd Cap, 3/4-10 x 2.50	
34	8307010	10	Lockwasher, 3/4	
35	8305017	10	Nut, Hex, 3/4-1	
36	7091973	1	Crossmember, Rear Frame	
37	8307222	4	Washer, Flat, M8	
38	8310028	4	Screw, Hex Hd Cap, M8 x 70MM	
39	8272009	1	Fan, Cooling 17in Puller	
40	8320253	1	Element, Fuel Filter - Primary	
41	8320250	1	Element, Fuel Filter - Secondary	
42	8080613	1	Belt, Fan	
43	8270220	1	Fan, Alternator (Not Shown)	
44	8270221	1	Alternator (Bosch type)	
45	8033342	1	Pulley, Alternator	
46	8320262	1	Element, Engine Oil Filter	
47	8270416	1	Starter	
48	8277143	1	Relay, Starter	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	7082452	1	Bracket, Starter	
50	8303705	2	Screw, Hex Hd Cap, 1/4-20 x 0.75	
51	7088352	1	Kit, Engine Coolant Heater (Optional)	

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FIGURE 4-13. EXHAUST SYSTEM (CUMMINS 4B3.9 - NATURAL)



PA1480

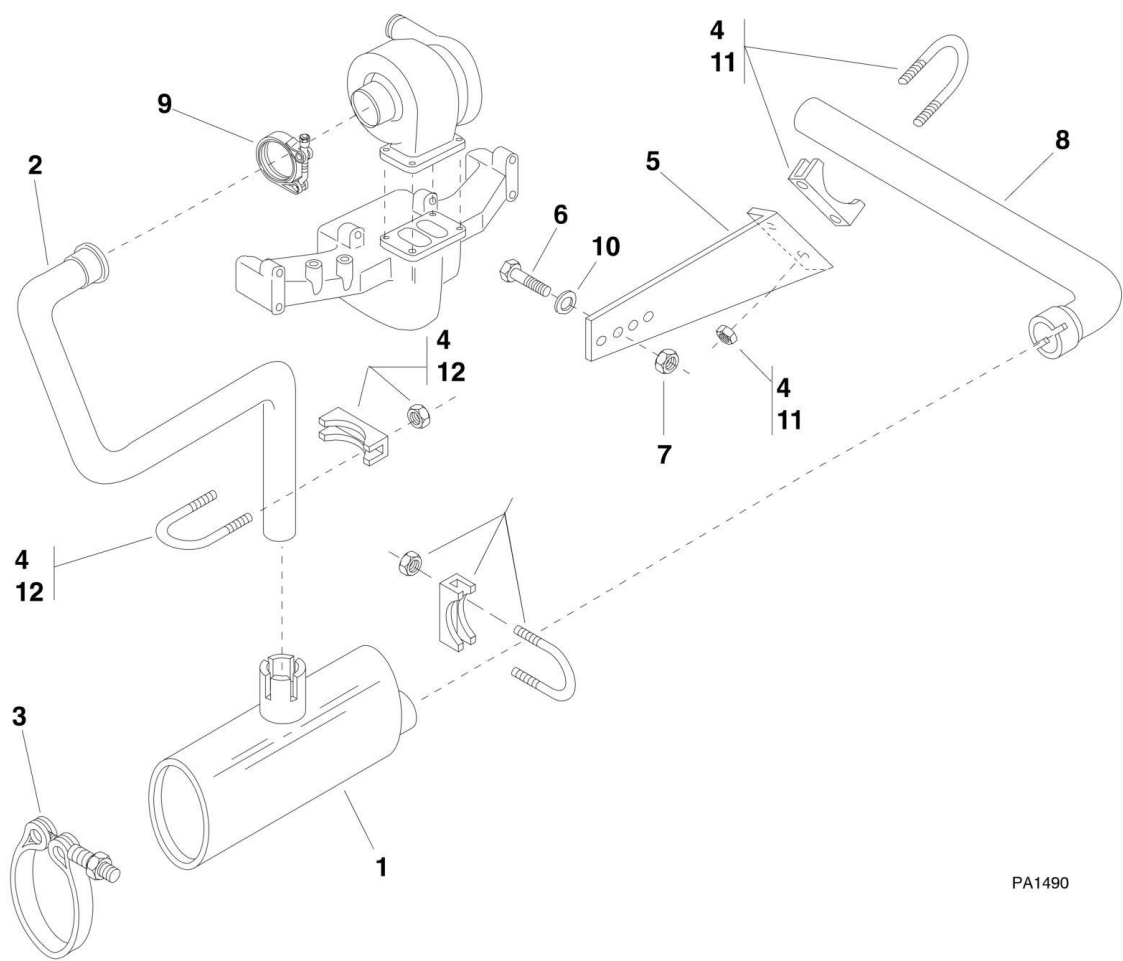
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FIGURE 4-13. EXHAUST SYSTEM (CUMMINS 4B3.9 - NATURAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7079162	1	Muffler	
2	7081962	1	Pipe, Exhaust	
3	7086742	1	Pipe, Tail	
4	8405604	2	Clamp, T-Bolt	
5	8275212	3	Clamp, Muffler	
6	7088362	1	Support, Tail Pipe	
7	8303621	2	Screw, Hex Hd Cap, 3/8-16 x 1 -1/2	
8	8305645	2	Locknut, 3/8-16 ESNA	
9	8303755	4	Screw, Hex Hd Cap, M10 x 30 MM	
10	8307023	4	Lockwasher, M10	
11	8033493	1	Gasket, Exhaust Manifold	
12	8307204	2	Washer, Flat, 3/8	

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FIGURE 4-14. EXHAUST SYSTEM (CUMMINS 4B3.9 -TURBO)



PA1490

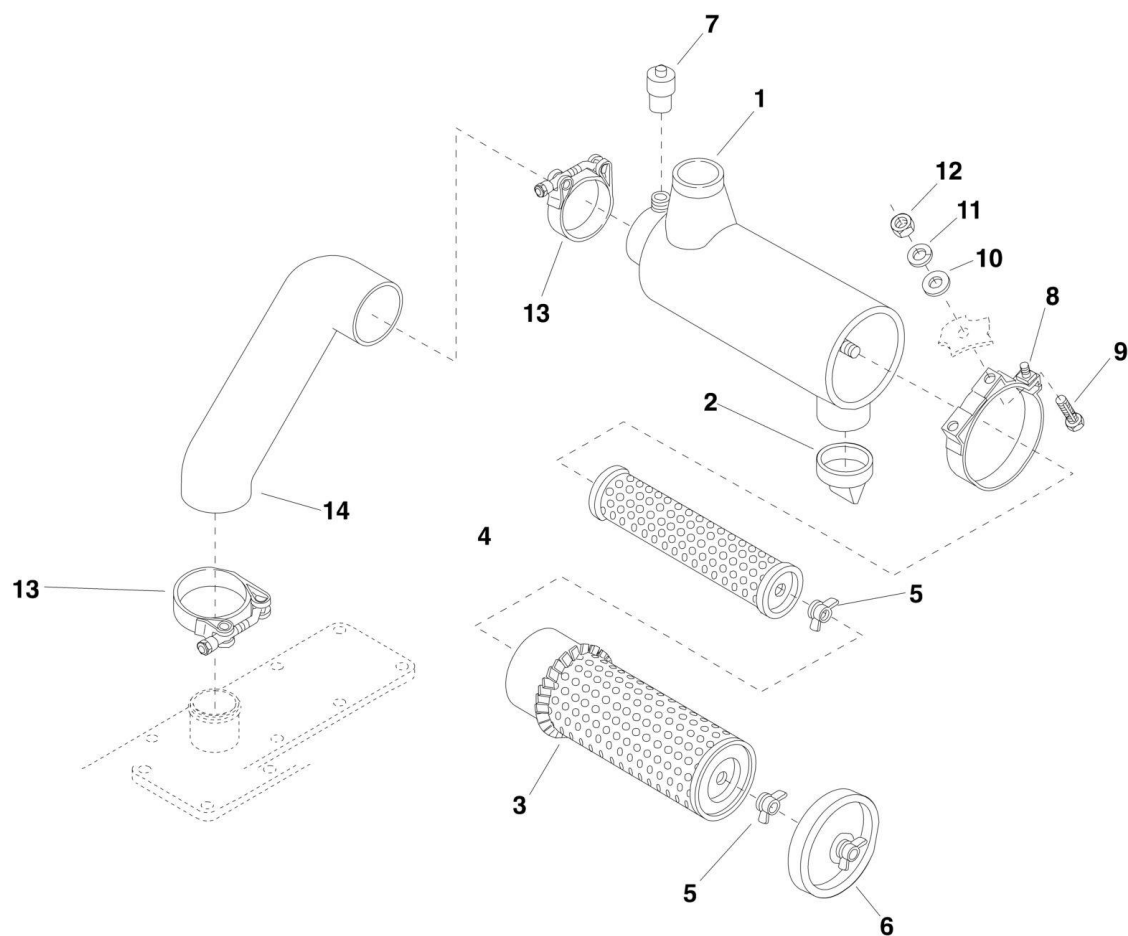
SECTION 4 - POWER PLANT

FIGURE 4-14. EXHAUST SYSTEM (CUMMINS 4B3.9 -TURBO)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7079162	1	Muffler (Prior to SN 3617)	
1	7126922	1	Muffler (SN 3617 to Present)	
2	7088283	1	Pipe, Exhaust (Prior to SN 3617)	
2	7126953	1	Pipe, Exhaust (SN 3617 to Present)	
3	8405604	2	Clamp, T-Bolt (Prior to SN 3617)	
3	7126992	2	Clamp, T-Bolt (SN 3617 to Present)	
4	8275212	3	Clamp, Muffler (Prior to SN 3617)	
5	7088362	1	Support Tail Pipe (Prior to SN 3617)	
5	7127062	1	Support Tail Pipe (SN 3617 to Present)	
6	8303621	2	Screw, Hex Hd Cap 3/8-16 x 1-1/2	
7	8305645	2	Locknut, 3/8-16 ESNA	
8	7086742	1	Pipe, Tail (Prior to SN 3617)	
8	7126962	1	Pipe, Tail (SN 3617 to Present)	
9	8275240	1	Clamp, V-Band	
10	8307204	2	Washer, Flat 3/8	
11	8275248	2	Clamp, Muffler - 3 (SN 3617 to Present)	
12	8275247	1	Clamp, Muffler - 2.75 (SN 3617 to Present)	

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FIGURE 4-15. AIR CLEANER (CUMMINS 4B3.9 - NATURAL) (Prior to SN 0F1186)



PA1321

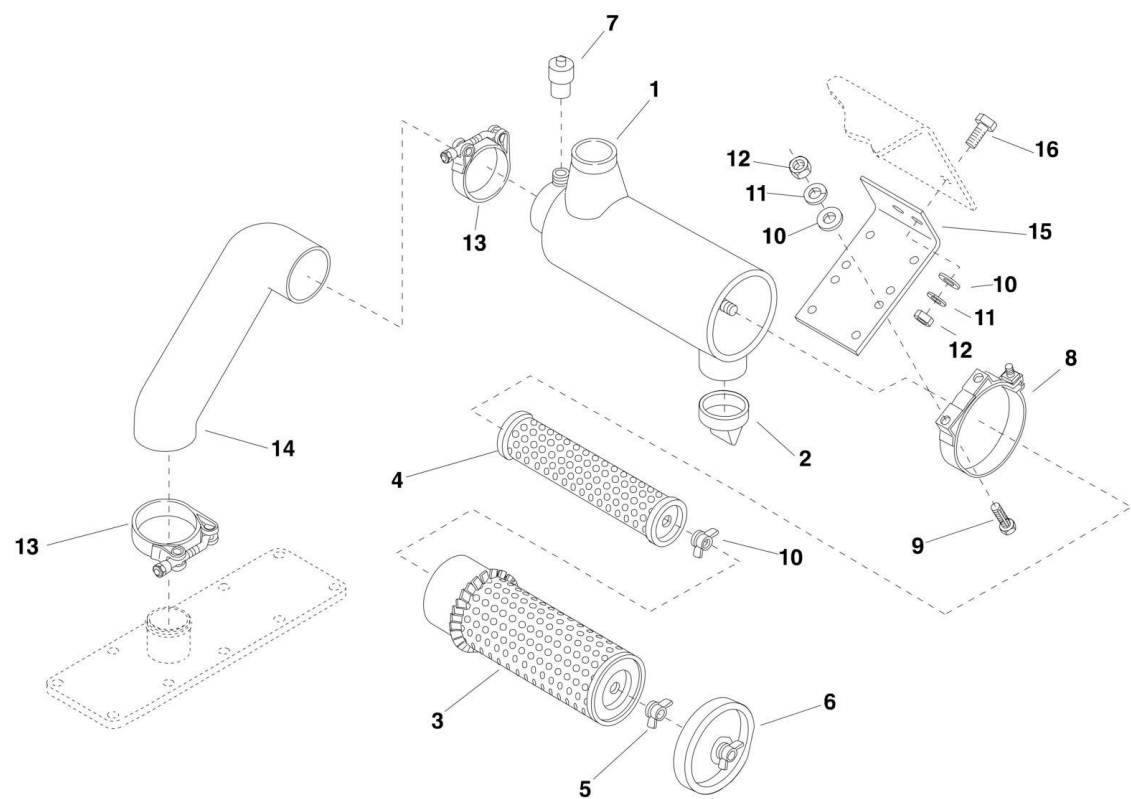
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FIGURE 4-15. AIR CLEANER (CUMMINS 4B3.9 - NATURAL) (Prior to SN 0F1186)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8273017	1	Air Cleaner Assembly (Includes Items 2 thru 6)	
2	8032764	1	Valve, Vacuator	
3	8273267	1	Element, Primary	
4	8273271	1	Element, Safety	
5	8273272	2	Nut Assembly	
6	8032763	1	Cover, End	
7	8273241	1	Indicator, Service, 25in	
8	8273266	2	Band, Mounting, Air Cleaner	
9	8303697	4	Screw, Cap, Hex Hd, 5/16-18 x 3/4	
10	8307203	4	Washer, Flat, 5/16	
11	8307004	4	Lockwasher, 5/16	
12	8305006	4	Nut, Hex, 5/16-18	
13	8405305	2	Clamp, Hose, 3.38 to 3.69in	
14	7118962	1	Hose, Intake	

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FIGURE 4-16. AIR CLEANER (CUMMINS 4B3.9 - NATURAL) (SN 0F1186 to Present)



PA1331

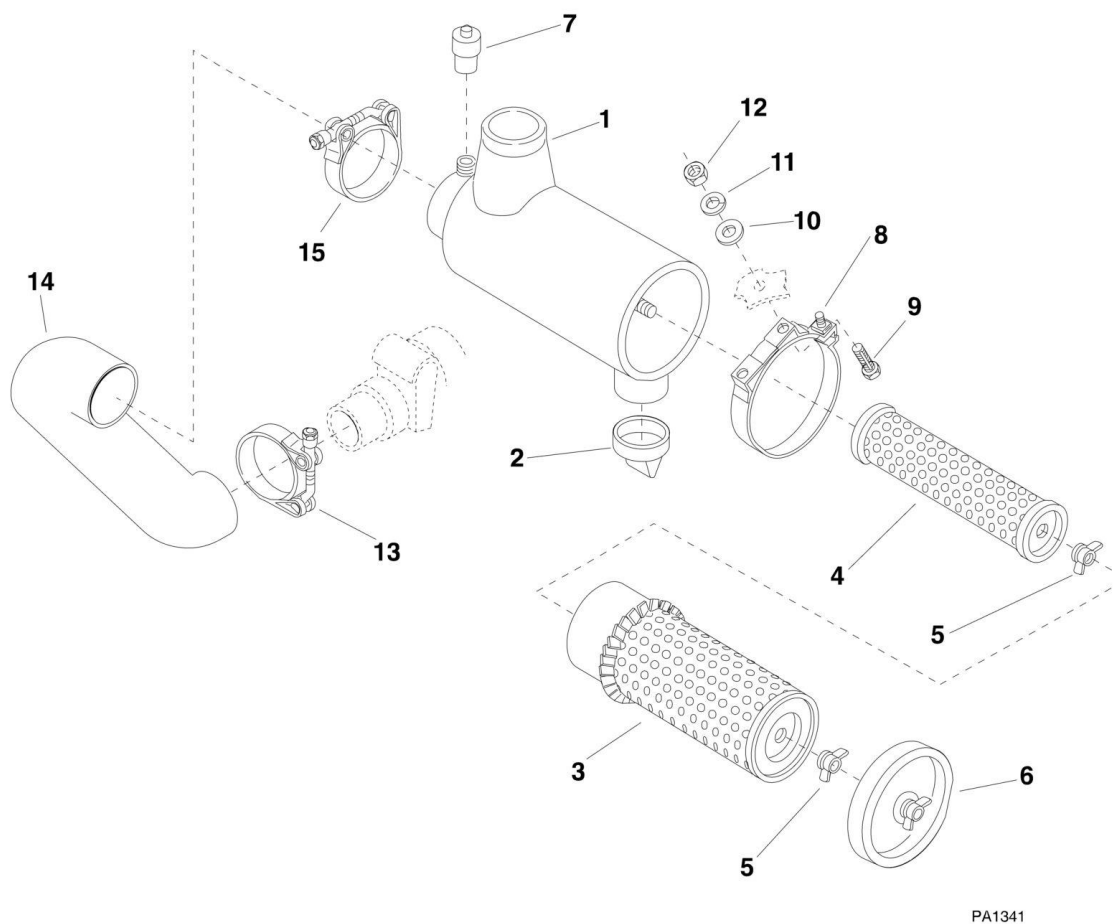
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FIGURE 4-16. AIR CLEANER (CUMMINS 4B3.9 - NATURAL) (SN 0F1186 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8273017	1	Air Cleaner Assembly (Includes Items 2 thru 6)	
2	8032764	1	Valve, Vacuator	
3	8273267	1	Element, Primary	
4	8273271	1	Element, Safety	
5	8273272	2	Nut Assembly	
6	8032763	1	Cover, End	
7	8273241	1	Indicator, Service, 25in	
8	8273266	2	Band, Mounting, Air Cleaner	
9	8303697	4	Screw, Cap, Hex Hd, 5/16-18 x 3/4	
10	8307203	4	Washer, Flat, 5/16	
11	8307004	4	Lockwasher, 5/16	
12	8305006	4	Nut, Hex, 5/16-18	
13	8405305	2	Clamp, Hose, 3.38 to 3.69in	
14	7118962	1	Hose, Intake	
15	7091902	1	Bracket, Air Cleaner	
16	8303739	2	Screw, Hex Hd Cap, 5/16-18 NC x 1-1/4 Gr 5	

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FIGURE 4-17. AIR CLEANER (CUMMINS 4BT3.9 - TURBO) (Prior to SN 0F1186)



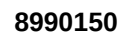
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FIGURE 4-17. AIR CLEANER (CUMMINS 4BT3.9 - TURBO) (Prior to SN 0F1186)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8273013	1	Air Cleaner Assembly (Includes Items 2 thru 6)	
2	8032764	1	Valve, Vacuator	
3	8273237	1	Element, Primary	
4	8273238	1	Element, Safety	
5	8273272	2	Nut Assembly	
6	8032762	1	Cover, End	
7	8273241	1	Indicator, Service, 25in	
8	8273240	2	Band, Mounting, Air Cleaner	
9	8303697	4	Screw, Cap, Hex Hd, 5/16-18 x 3/4	
10	8307203	4	Washer, Flat, 5/16	
11	8307004	4	Lockwasher, 5/16	
12	8305006	4	Nut, Hex, 5/16-18	
13	8405305	1	Clamp, Hose, 3.38 to 3.69in	
14	7118702	1	Hose, Intake	
15	8405307	1	Clamp, Hose, 3.81 to 4.13in	

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6036



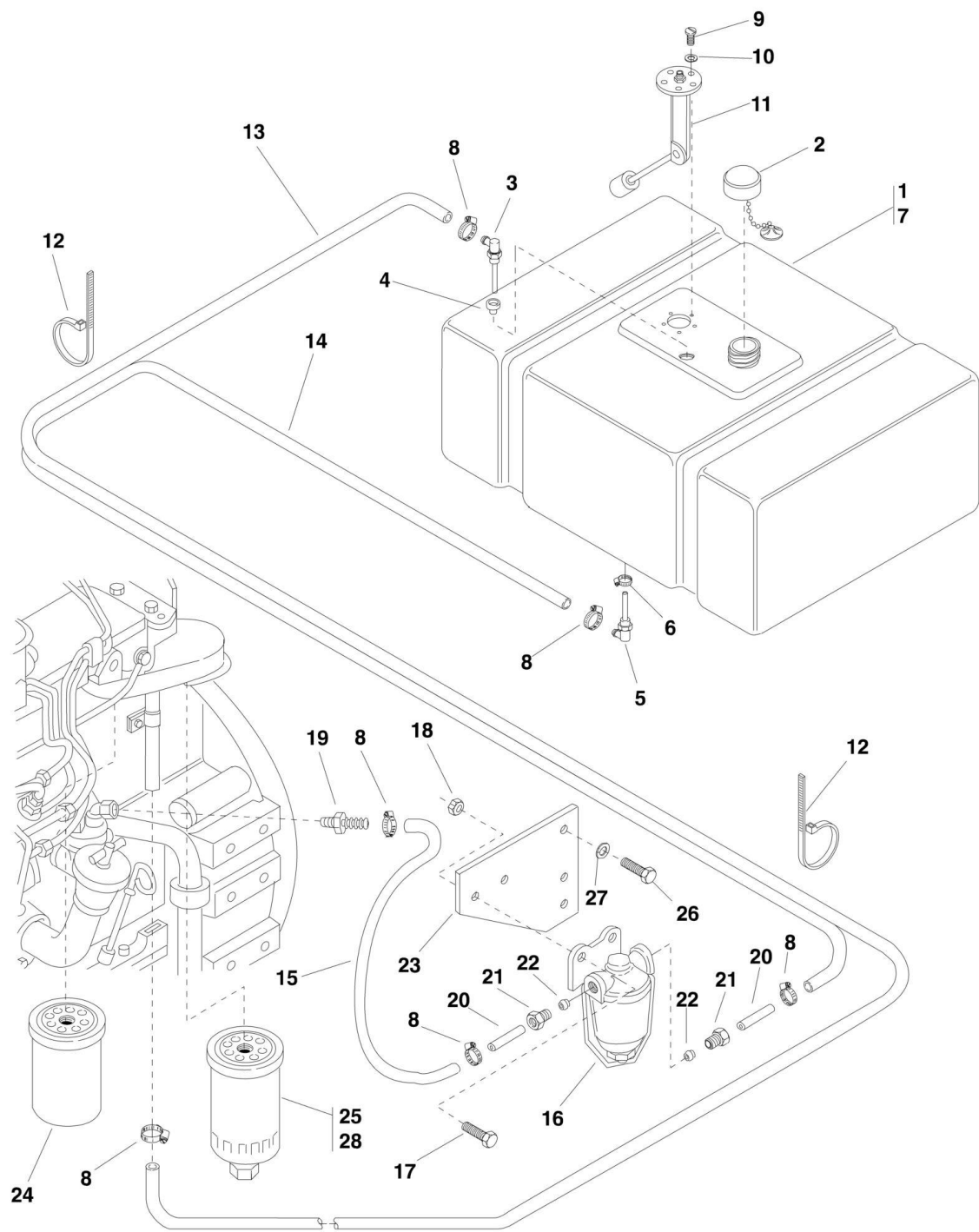
SECTION 4 - POWER PLANT

FIGURE 4-18. AIR CLEANER (CUMMINS 4BT3.9 - TURBO) (SN 0F1186 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8273013	1	Air Cleaner Assembly (Includes Items 2 thru 6)	
2	8032764	1	Valve, Vacuator	
3	8273237	1	Element, Primary	
4	8273238	1	Element, Safety	
5	8273272	2	Nut Assembly	
6	8032762	1	Cover, End	
7	8273241	1	Indicator, Service, 25in	
8	8273240	2	Band, Mounting, Air Cleaner	
9	8303697	4	Screw, Cap, Hex Hd, 5/16-18 x 3/4	
10	8307203	6	Washer, Flat, 5/16	
11	8307004	6	Lockwasher, 5/16	
12	8305006	6	Nut, Hex, 5/16-18	
13	8405305	1	Clamp, Hose, 3.38 to 3.69in	
14	7118702	1	Hose, Intake	
15	7091902	1	Bracket, Air Cleaner	
16	8303739	2	Screw, Hex Hd Cap, 5/16-18 x 1-1/4 Gr5	
17	8405307	1	Clamp, Hose, 3.81 to 4.13in	

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FIGURE 4-19. FUEL SYSTEM (CUMMINS ENGINES)



PA1183

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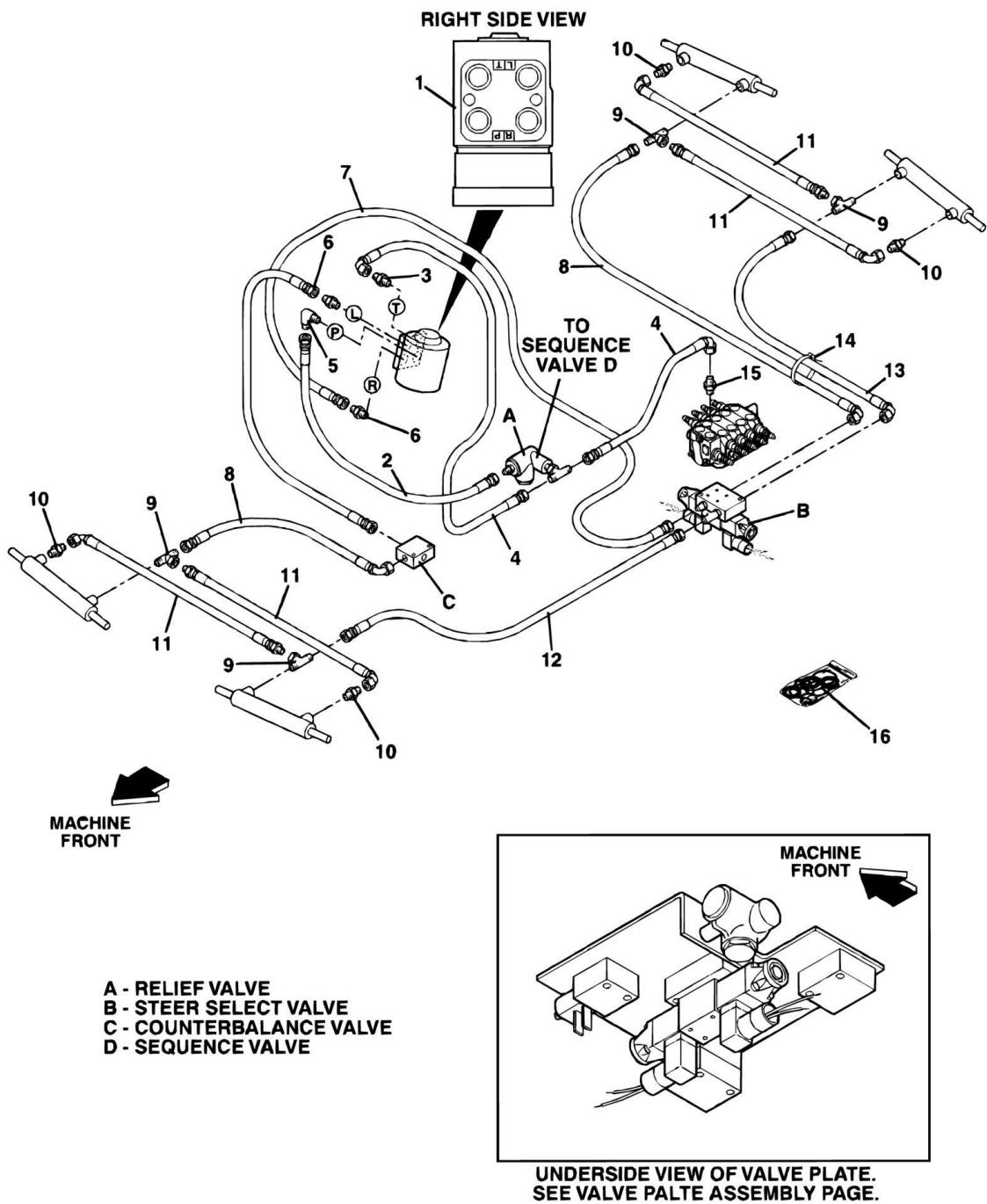
FIGURE 4-19. FUEL SYSTEM (CUMMINS ENGINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7127321	1	Tank, Fuel (Includes items 2 thru 7)	
2	8033111	1	Cap, Filler, w/tether	
3	8033109	1	Elbow, 90, w/standpipe	
4	8033175	1	Bushing,Rubber	
5	8033176	1	Elbow, 90, w/standpipe	
6	8405101	1	Clamp,Hose	
7	N.S.S.	1	Tank, Fuel	
8	8405009	6	Clamp,Hose	
9	8310180	5	Screw, Machine, 10-24 x 3/8	
10	8307003	5	Lockwasher,#10	
11	7070992	1	Sender, Fuel Level	
12	8584001	2	Tie Wrap	
13	8403214-1290	1	Hose, Fuel Return, 1/4 x 129.0	
14	8403219-1400	1	Hose, Fuel Supply, 5/16 x 140.0	
15	8403219-0120	1	Hose, Fuel Supply, 5/16 x 12.0	
16	8274021	1	Fuel Pre-Filter All Naturally Aspirated and Turbo Charged (Prior to SN 3617)	
16	8274022	1	Fuel Strainer - Inline - Not Shown Turbo Charged Only (SN 3617 to Present)	
17	8303705	2	Screw, Hex Hd Cap, 1/4-20 x 0.75 All Naturally Aspirated and Turbo Charged (Prior to SN 3617)	
18	8305624	2	Locknut, 1/4-20 All Naturally Aspirated and Turbo Charged (Prior to SN 3617)	
19	8420231	1	Fitting, Barbed 1/4 NPT x 5/16 T All Naturally Aspirated and Turbo Charged (Prior to SN 3617)	
19	8430007	1	Fitting, Barbed 1/4 NPT x .38 T Turbo Charged Only (SN 3617 to Present)	
20	7091291	2	Tube All Naturally Aspirated and Turbo Charged (Prior to SN 3617)	
21	8274209	2	Bushing, Hex, 1/2-20 x 5/16 tube All Naturally Aspirated and Turbo Charged (Prior to SN 3617)	
22	8274210	2	Sleeve All Naturally Aspirated and Turbo Charged (Prior to SN 3617)	
23	7082452	1	Bracket, Fuel Pre-Filter Mounting All Naturally Aspirated and Turbo Charged (Prior to SN 3617)	
24	8320250	1	Element, Fuel Filter - Secondary All Naturally Aspirated and Turbo Charged (Prior to SN 3617)	
25	8320253	1	Element, Fuel Filter - Primary All Naturally Aspirated and Turbo Charged (Prior to SN 3617)	
26	8303790	2	Screw, Hex Hd Cap, M12 x 20 mm All Naturally Aspirated and Turbo Charged (Prior to SN 3617)	
27	8307025	2	Lockwasher, M12 All Naturally Aspirated and Turbo Charged (Prior to SN 3617)	
28	8320270	1	Element, Single Filter/ Water Separator Turbo Charged Only (SN 3617 to Present)	

SECTION 5 - HYDRAULIC CIRCUITS

SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-1. POWER STEERING CIRCUIT (Prior to SN 8F0236)



PA0433

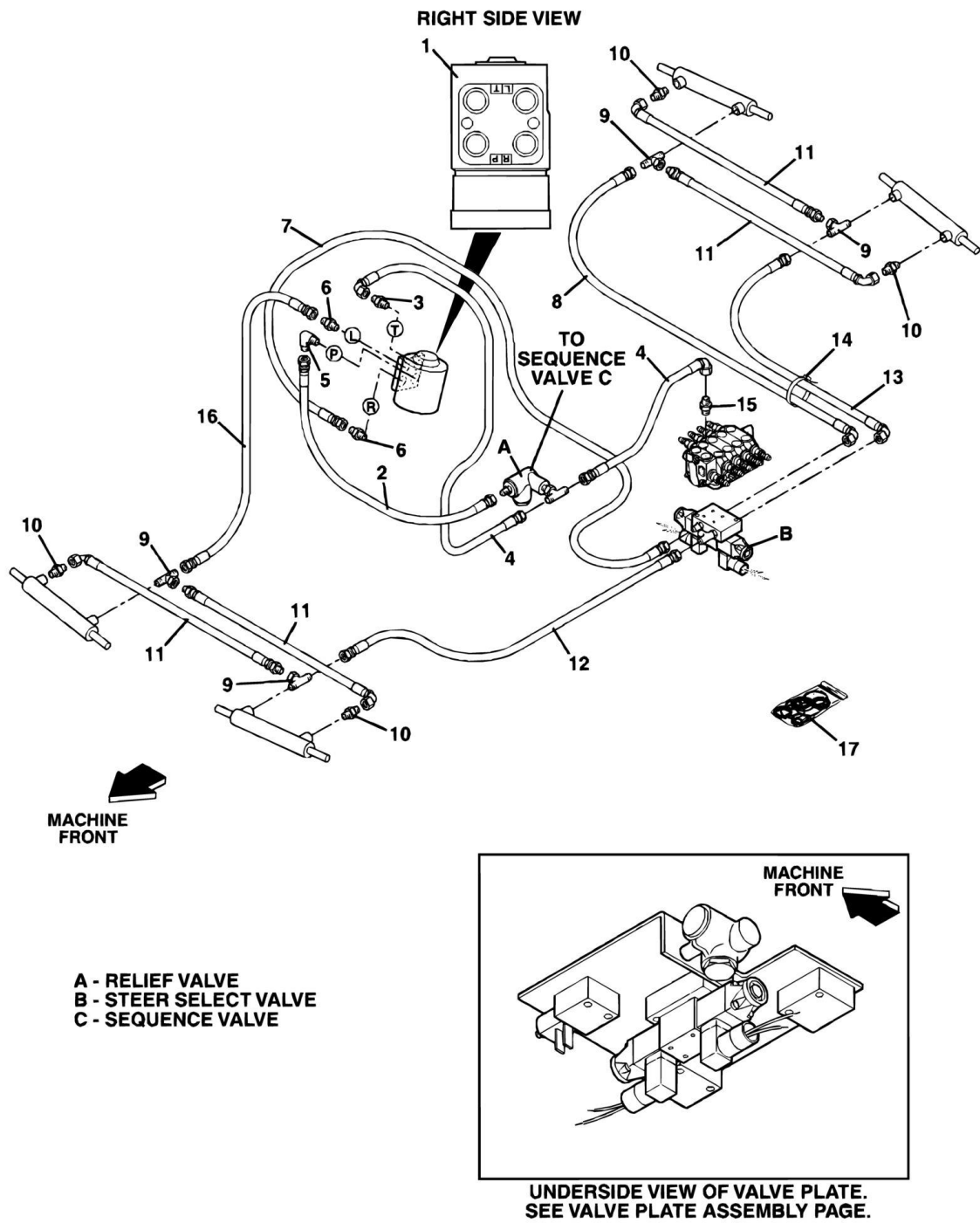
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-1. POWER STEERING CIRCUIT (Prior to SN 8F0236)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8721021	1	Power Steering Unit (See Kits)	
2	2711942	1	Hose Assembly, Steering Unit Inlet	
3	8760107	1	Connector, Straight, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
4	2711962	2	Hose Assembly, Steering Unit Outlet	
5	8760303	1	Elbow, 90, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
6	8760110	2	Connector, Straight, SAE 6-8 - male JIC 37 x male str. thd. O-ring	
7	2711972	2	Hose Assembly, Steer Select/Counterbalance Valves	
8	2712142	2	Hose Assembly, Steer Select to RH Rear/Front Cover	
9	8760449	4	Tee, Male Run, SAE 6-6 - male JIC 37 x male str. thd. O-ring	
10	8760117	4	Connector, Straight, SAE 6-8 - male JIC 37 x male str. thd. O-ring	
11	2711992	4	Hose Assembly, Steering Crossover	
12	2712002	1	Hose Assembly, Steer Select to LH Front Cylinder	
13	2712012	1	Hose Assembly, Steer Select to LH Rear Cylinder	
14	8584002	4	Tie Wrap	
15	8760111	1	Connector, Straight, SAE 8-12 - male JIC 37 x male str. thd. O-ring	
		Ref	KITS	
16	8034565	1	Seal Kit, Power Steering Unit	

SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-2. POWER STEERING CIRCUIT (SN 8G0236 through 9B0499)



PA0443

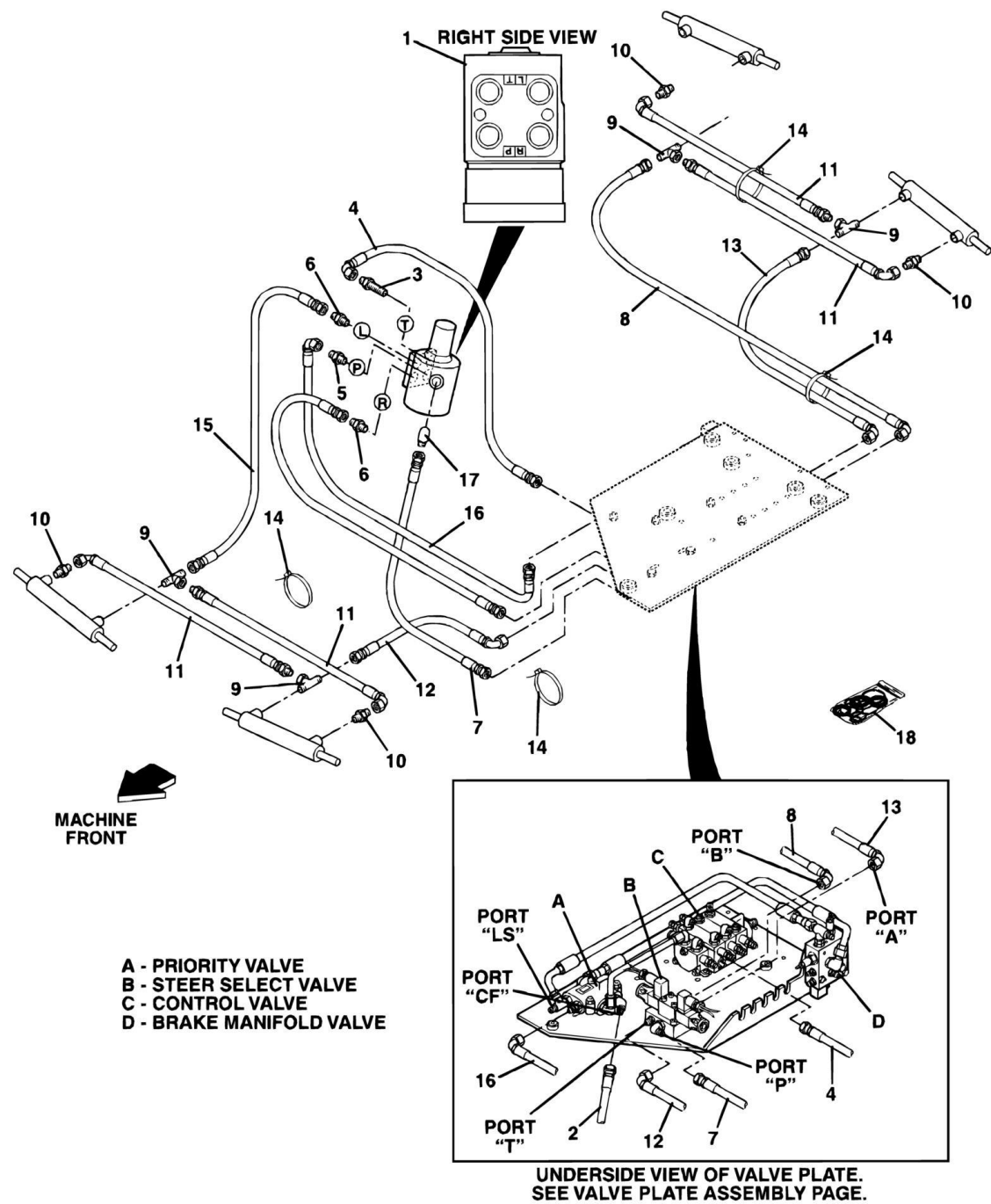
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-2. POWER STEERING CIRCUIT (SN 8G0236 through 9B0499)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8721021	1	Power Steering Unit (See Kits)	
2	2711942	1	Hose Assembly, Steering Unit Inlet	
3	8760107	1	Connector, Straight, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
4	2711962	2	Hose Assembly, Steering Unit Outlet	
5	8760303	1	Elbow, 90, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
6	8760110	2	Connector, Straight, SAE 6-8 - male JIC 37 x male str. thd. O-ring	
7	2711972	2	Hose Assembly, Steer Select/Counterbalance Valves	
8	2712142	2	Hose Assembly, Steer Select to RH Rear/Front Cover	
9	8760449	4	Tee, Male Run, SAE 6-6 - male JIC 37 x male str. thd. O-ring	
10	8760117	4	Connector, Straight, SAE 6-8 - male JIC 37 x male str. thd. O-ring	
11	2711992	4	Hose Assembly, Steering Crossover	
12	2712002	1	Hose Assembly, Steer Select to LH Front Cylinder	
13	2712012	1	Hose Assembly, Steer Select to LH Rear Cylinder	
14	8584002	4	Tie Wrap	
15	8760111	1	Connector, Straight, SAE 8-12 - male JIC 37 x male str. thd. O-ring	
16	2711982	1	Hose Assembly, Steer Select to RH Front Cylinder	
		Ref	KITS	
17	8034565	1	Seal Kit, Power Steering Unit	

SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-3. POWER STEERING CIRCUIT (SN 9B0500 to Present)



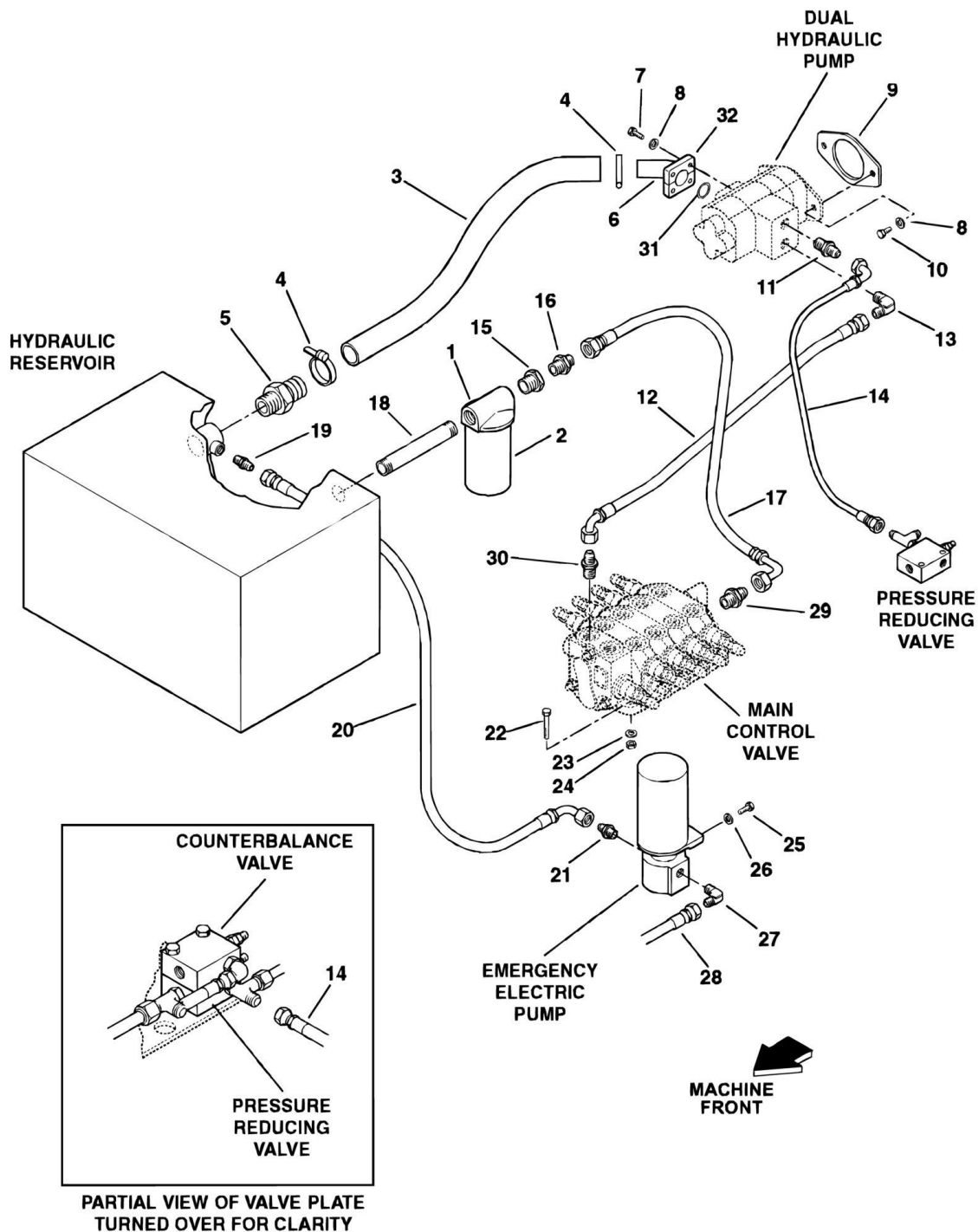
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-3. POWER STEERING CIRCUIT (SN 9B0500 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8721024	1	Power Steering Unit (See Kits)	
2	2712122	1	Hose Assembly, Steering Unit Inlet	
3	8760143	1	Connector, Straight, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
4	2711962	2	Hose Assembly, Steering Unit Outlet	
5	8760140	1	Connector, male tube end w/inlet check, SAE 8-8 - free flow male tube end w/inlet x str. thd. port w/O-ring	
6	8760110	2	Connector, Straight, SAE 6-8 - male JIC 37 x male str. thd. O-ring	
7	2711972	2	Hose Assembly, Steer Select/Counterbalance Valves	
8	2712032	2	Hose Assembly, Steer Select to RH Rear Cylinder	
9	8760449	4	Tee, Male Run, SAE 6-6 - male JIC 37 x male str. thd. O-ring	
10	8760117	4	Connector, Straight, SAE 6-8 - male JIC 37 x male str. thd. O-ring	
11	2711992	4	Hose Assembly, Steering Crossover	
12	2712012	1	Hose Assembly, Steer Select to LH Front Cylinder	
13	2712142	1	Hose Assembly, Steer Select to LH Rear Cylinder	
14	8584002	4	Tie Wrap	
15	2711982	1	Hose Assembly, Steer Select to RH Front Cylinder	
16	2712592	1	Hose Assembly, Steering Pilot	
17	8760322	1	Elbow, 90, SAE 4-4 - male JIC 37 x male str. thd. O-ring	
		Ref	KITS	
18	8034565	1	Seal Kit, Power Steering Unit	

SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-4. MAIN CONTROL VALVE CIRCUIT (Prior to SN 9B0500)



PA0453

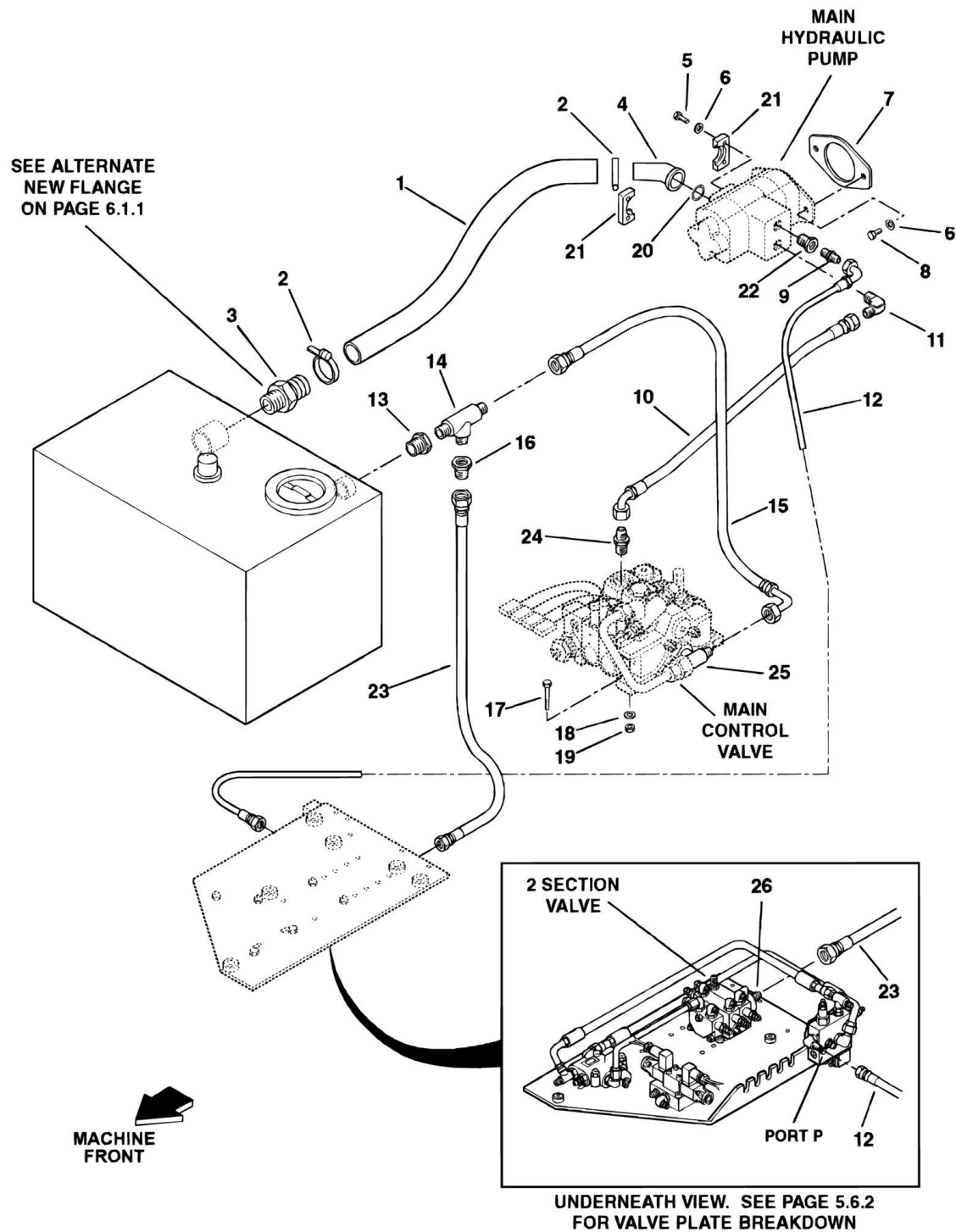
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-4. MAIN CONTROL VALVE CIRCUIT (Prior to SN 9B0500)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8320255	1	Head, Filter (See NOTE)	
2	8320240	1	Element, Filter (See NOTE)	
3	8401004-0470	1	Hose, Inlet	
4	8405209	2	Clamp, Hose	
5	8424003	1	Hose Fitting, Beaded, SAE 32-32P - 2in ID x male NPT	
6	8424222	1	Hose Fitting, Elbow, Tube, 45, Barbed, SAE 32 - hose 2in ID x 4 bolt O-ring	
7	8303626	4	Screw, Hex Hd Cap, 1/2-13 x 1-1/2	
8	8307007	6	Lockwasher, 1/2	
9	7054902	1	Gasket	
10	8303625	2	Screw, Hex Hd Cap, 1/2-13 x 1-1/4	
11	8760111	1	Connector, Straight, SAE 8-12 - male JIC 37 x male str. thd O-ring	
12	2711832	1	Hose Assembly, Large Pump Outlet	
13	8760325	1	Elbow, 90, SAE 12-16 - male JIC 37 x male str. thd. O-ring	
14	2711912	1	Hose Assembly, Small Pump Outlet	
15	8540048	1	Bushing, Hex, 1-1/4in NPT x 1in NPT (See NOTE)	
16	8760005	1	Connector, Straight, SAE 16-16P - male JIC 37 x male NPT	
17	2711902	1	Hose Assembly, Main Control Valve to Filter	
18	8551621	1	Pipe, 1-1/4 x 11 (See NOTE)	
19	8760002	1	Connector, Straight, SAE 10-8P - male JIC 37 x male NPT	
20	2711922	1	Hose Assembly, Emergency Pump Inlet	
21	8760115	1	Connector, Straight, SAE 10-10 - male JIC 37 x male str. thd. O-ring	
22	8303713	3	Screw, Hex Hd Cap, 1/2-13 x 2-1/4	
23	8307112	3	Washer, Flat, SAE 1/2	
24	8305644	3	Locknut, 1/2-13	
25	8303621	2	Screw, Hex Hd Cap, 3/8-16 x 1-1/2	
26	8307005	2	Lockwasher, 3/8	
27	8760311	1	Elbow, 90, SAE 6-6 - male JIC 37 x male str. thd. O-ring	
28	2712182	1	Hose Assembly, Emergency Pump Outlet	
29	8760102	1	Connector, Straight, SAE 16-16 - male JIC 37 male str. thd. O-ring	
30	8760109	1	Connector, Straight, SAE 12-12 - male JIC 37 x male str. thd. O-ring	
31	8640208	1	O-Ring, #228	
32	8546407	2	Clamp Half, 2in	
		Ref	NOTE: Items 1, 2, 15 & 18 are not used with reservoirs converted to in-tank filters. See HYDRAULIC COMPONENTS SECTION for reservoir conversion kit.	

SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-5. MAIN CONTROL VALVE CIRCUIT (W/ELECTRONIC CONTROLLED JOYSTICK) (SN 9B0500 through 0E1179)



PA0952

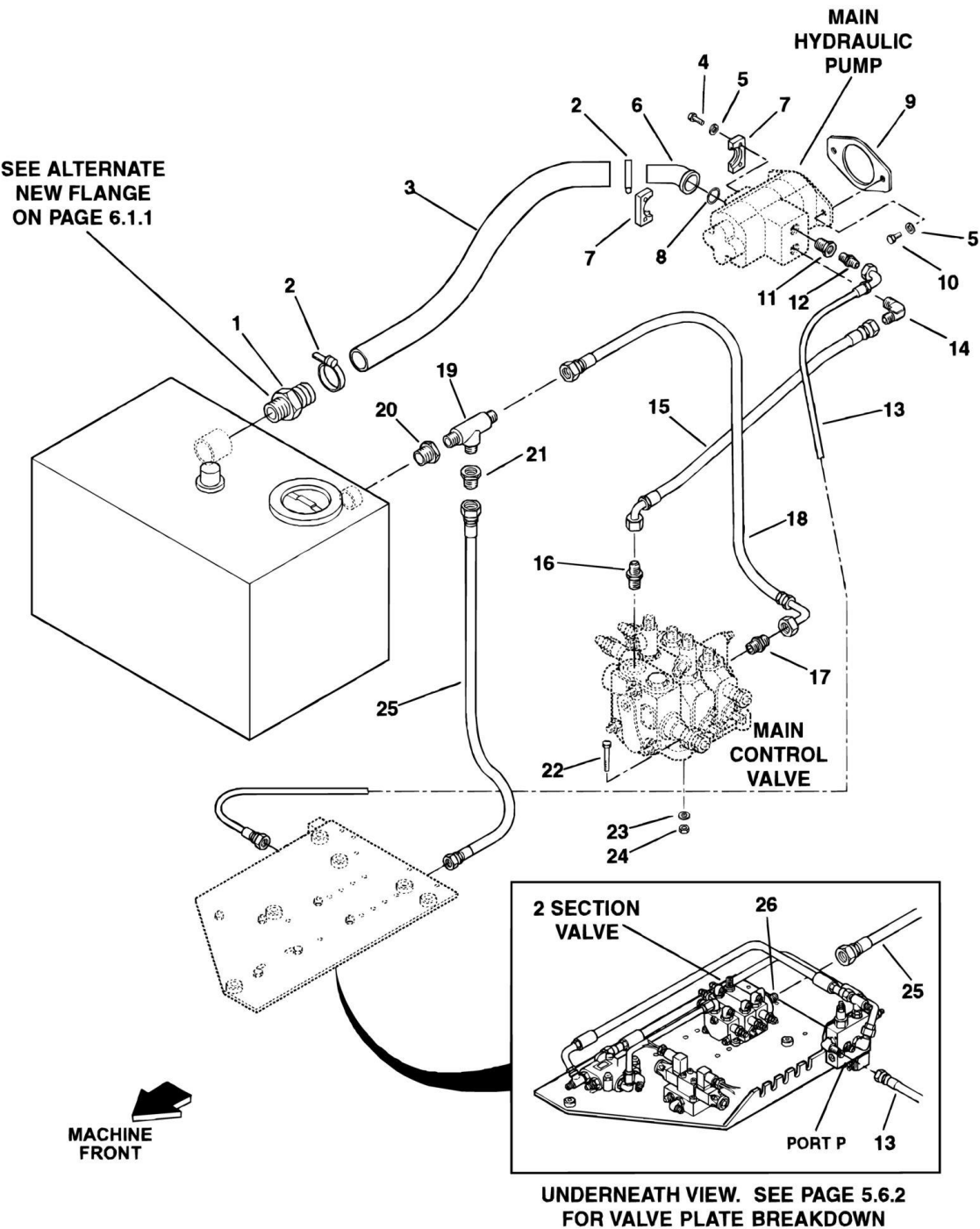
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-5. MAIN CONTROL VALVE CIRCUIT (W/ELECTRONIC CONTROLLED JOYSTICK) (SN 9B0500 through 0E1179)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8401004-0470	1	Hose, Inlet	
2	8405209	2	Clamp, Hose	
3	8424003	1	Hose Fitting, Beaded, SAE 32-32P - hose 2in ID x male NPT	
4	8424222	1	Elbow, Tube, 45, Barbed, SAE 32 - hose 2in ID x 4 bolt O-ring	
5	8303626	4	Screw, Hex Hd Cap, 1/2-13 x 1-1/2	
6	8307007	6	Washer, Lock, 1/2	
7	7054902	1	Gasket	
8	8303602	2	Screw, Hex Hd Cap, 1/2-13 x 1-1/4	
9	8760107	1	Connector, Straight, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
10	2711832	1	Hose Assembly, Large Pump Outlet	
11	8760325	1	Elbow, 90, SAE 12-16 - male JIC 37 x male str. thd. O-ring	
12	6604862	1	Hose Assembly, Small Pump Outlet	
13	8540048	1	Bushing, Hex, 1-1/4in NPT x 1in NPT (See NOTE)	
14	8760553	1	Tee, Male Run, SAE 16-16P - male JIC 37 x male NPT (See NOTE)	
15	2711902	1	Hose Assembly, Main Control Valve to Reservoir	
16	8760533	1	Reducer, SAE 16-8 - female JIC 37 x male JIC 37 (See NOTE)	
17	8303713	3	Screw, Hex Hd Cap, 1/2-13 x 2-1/4 Gr 5	
18	8307112	3	Washer, Flat, SAE 1/2	
19	8305644	3	Locknut, 1/2-13	
20	8640208	1	O-Ring #228	
21	8546407	2	Clamp Half 2in	
22	8760545	1	Reducer, SAE 16-8 - male str. thd. O-ring x female internal O-ring boss	
23	2712342	1	Hose Assembly, Reservoir Return	
24	8760118	1	Connector, Straight, SAE 12-16 - male JIC 37 x str. thd. O-ring	
25	8760552	1	Tee, Male Branch, SAE 16-16 - male JIC 37 x male str. thd. O-ring	
26	8760108	1	Connector, Straight, SAE 8-10 - male JIC 37 x str. thd. O-ring	
		Ref	NOTE: Items 13, 14 & 16 are not used with converted reservoir. See HYDRAULIC COMPONENTS SECTION for reservoir conversion kit.	

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FIGURE 5-6. MAIN CONTROL VALVE CIRCUIT (W/CABLE CONTROLLED JOYSTICK) (SN 9B0500 through 0E1179)



PA0962

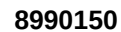
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-6. MAIN CONTROL VALVE CIRCUIT (W/CABLE CONTROLLED JOYSTICK) (SN 9B0500 through 0E1179)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8424003	1	Hose Fitting, Beaded, SAE 32-32P - hose 2in ID x male NPT	
2	8405209	2	Clamp, Hose	
3	8401004-0470	1	Hose, Inlet	
4	8303626	4	Screw, Hex Hd Cap, 1/2-13 x 1-1/2	
5	8307007	6	Washer, Lock, 1/2	
6	8424222	1	Hose Fitting, Elbow, Tube, 45, Barbed, SAE 32 - hose 2in ID x 4 bolt O-ring	
7	8546407	2	Clamp Half, 2in	
8	8640208	1	O-Ring #228	
9	7054902	1	Gasket	
10	8303602	2	Screw, Hex Hd Cap, 1/2-13 x 1-1/4	
11	8760545	1	Reducer, SAE 16-8 - male str. thd. O-ring x female internal O-ring boss	
12	8760107	1	Connector, Straight, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
13	6604862	1	Hose Assembly, Small Pump Outlet	
14	8760325	1	Elbow, 90, SAE 12-16 - male JIC 37 x male str. thd. O-ring	
15	2711832	1	Hose Assembly, Large Pump Outlet	
16	8760109	1	Connector, Straight, SAE 12-12 - male JIC 37 x male str. thd. O-ring	
17	8760102	1	Connector, Straight, SAE 16-16 - male JIC 37 x male str. thd. O-ring	
18	2711902	1	Hose Assembly, Main Control Valve to Filter	
19	8760553	1	Tee, Male Run, SAE 16-16P - male JIC 37 x male NPT (See NOTE)	
20	8540048	1	Bushing, Hex, 1-1/4in NPT x 1in NPT (See NOTE)	
21	8760533	1	Reducer, SAE 16-8 - female JIC 37 x male JIC 37 (See NOTE)	
22	8303713	3	Screw, Hex Hd Cap, 1/2-13 x 2-1/4 Gr 5	
23	8307112	3	Washer, Flat, SAE 1/2	
24	8305644	3	Locknut, 1/2-13	
25	2712342	1	Hose Assembly, Reservoir Return	
26	8760108	1	Connector, Straight, SAE 8-10 - male JIC 37 x male str. thd. O-ring	
		Ref	NOTE: Items 19, 20 & 21 are not used with a converted reservoir. See HYDRAULIC COMPONENTS SECTION for reservoir conversion kit.	

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PA1201

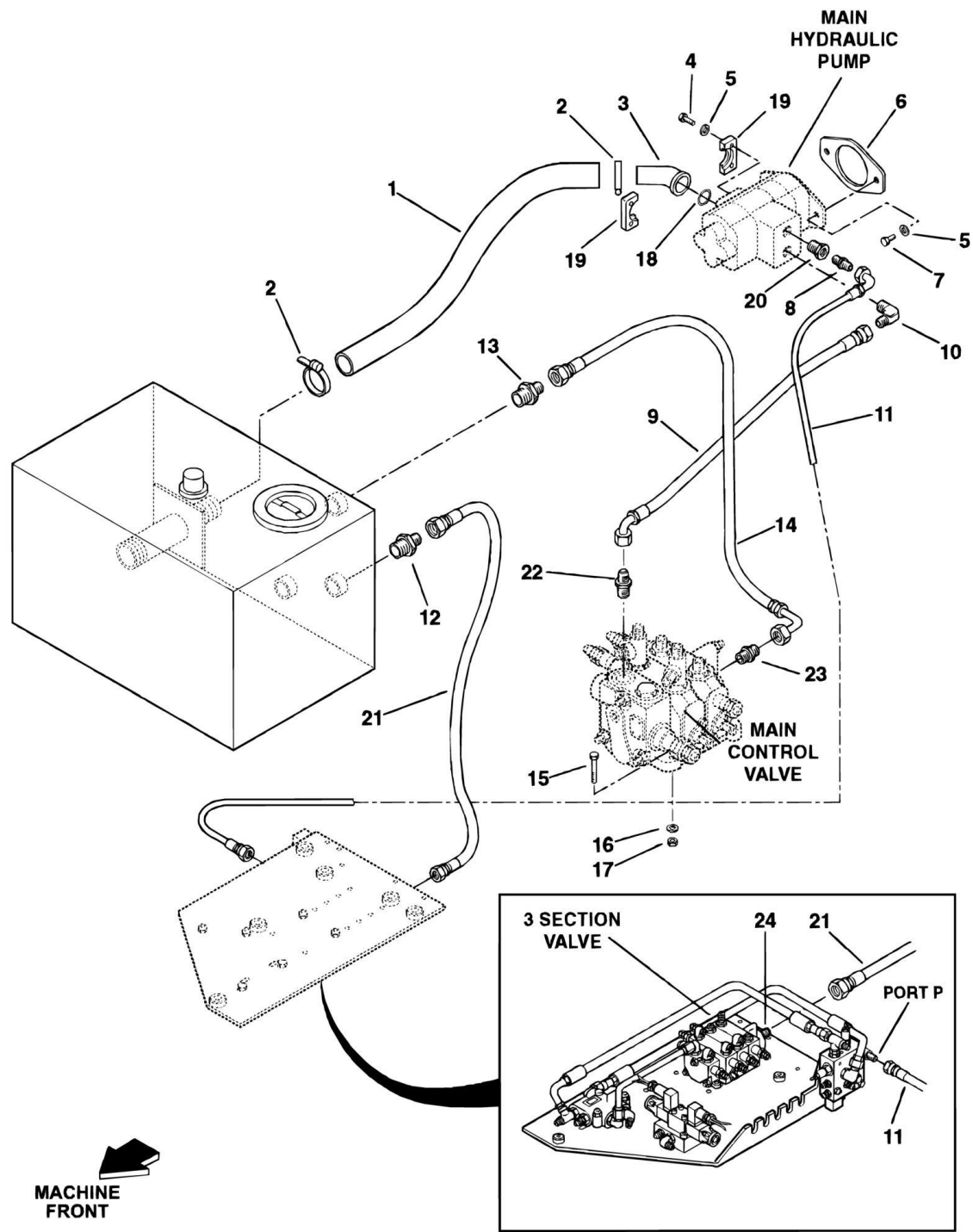
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-7. MAIN CONTROL VALVE CIRCUIT (W/ELECTRONIC CONTROLLED JOYSTICK) (SN 0E1180 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8401004-0470	1	Hose, Inlet	
2	8405209	2	Clamp, Hose	
3	8760108	1	Connector, Straight, SAE 8-10 - male JIC 37 x male str. thd. O-ring	
4	8424222	1	Elbow, Tube, 45, Barbed, SAE 32 - hose 2in ID x 4 bolt O-ring	
5	8303626	4	Screw, Hex Hd Cap, 1/2-13 x 1-1/2	
6	8307007	6	Washer, Lock, 1/2	
7	7054902	1	Gasket	
8	8303602	2	Screw, Hex Hd Cap, 1/2-13 x 1-1/4	
9	8760107	1	Connector, Straight, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
10	2711832	1	Hose Assembly, Large Pump Outlet	
11	8760325	1	Elbow, 90, SAE 12-16 - male JIC 37 x male str. thd. O-ring	
12	6604862	1	Hose Assembly, Small Pump Outlet	
13	8760015	1	Connector, Straight, SAE 8-8P - male JIC 37 x male NPT	
14	8760005	1	Connector, Straight, SAE 16-16P - male JIC 37 x male NPT	
15	2711902	1	Hose Assembly, Main Control Valve to Reservoir	
16	8303713	3	Screw, Hex Hd Cap, 1/2-13 x 2-1/4 Gr 5	
17	8307112	3	Washer, Flat, SAE 1/2	
18	8305644	3	Locknut, 1/2-13	
19	8640208	1	O-Ring #228	
20	8546407	2	Clamp Half, 2in	
21	8760545	1	Reducer, SAE 16-8 - male str. thd. O-ring x female internal O-ring boss	
22	2712342	1	Hose Assembly, Reservoir Return	
23	8760118	1	Connector, Straight, SAE 12-16 - male JIC 37 x male str. thd. O-ring	
24	8760552	1	Tee, Male Branch, SAE 16-16 - male JIC 37 x male str. thd. O-ring	

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FIGURE 5-8. MAIN CONTROL VALVE CIRCUIT (W/CABLE CONTROLLED JOYSTICK) (SN 0E1180 to Present)



PA1210

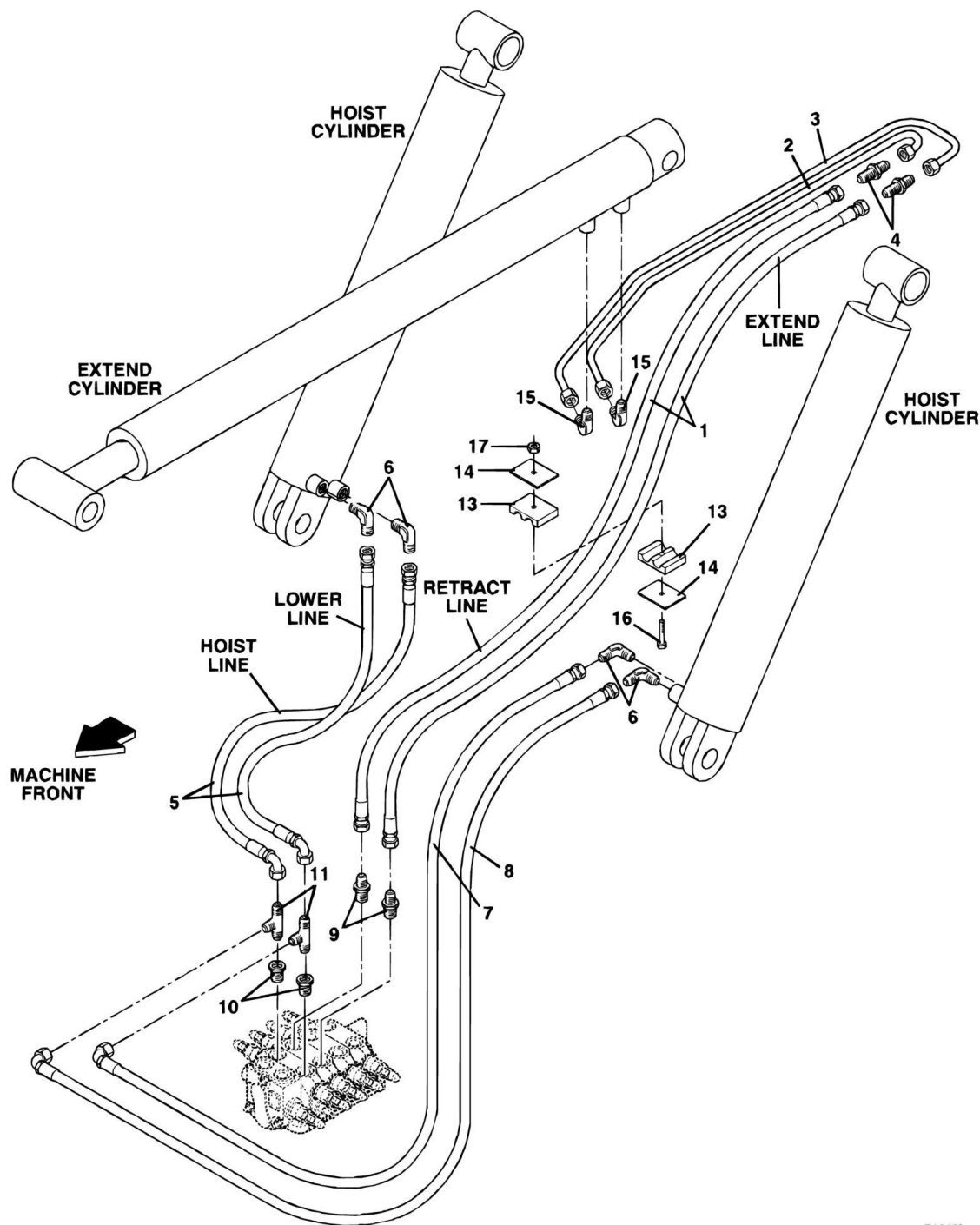
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-8. MAIN CONTROL VALVE CIRCUIT (W/CABLE CONTROLLED JOYSTICK) (SN 0E1180 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8401004-0470	1	Hose, Inlet	
2	8405209	2	Clamp, Hose,	
3	8424222	1	Elbow, Tube, 45, Barbed, SAE 32 - hose 2in ID x 4 bolt O-ring	
4	8303626	4	Screw, Hex Hd Cap, 1/2-13 x 1-1/2	
5	8307007	6	Washer, Lock, 1/2	
6	7054902	1	Gasket	
7	8303602	2	Screw, Hex Hd Cap, 1/2-13 x 1-1/4	
8	8760107	1	Connector, Straight, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
9	2711832	1	Hose Assembly, Large Pump Outlet	
10	8760325	1	Elbow, 90, SAE 12-16 - male JIC 37 x male str. thd. O-ring	
11	6604862	1	Hose Assembly, Small Pump Outlet	
12	8760015	1	Connector, Straight, SAE 8-8P - male JIC 37 x male NPT	
13	8760005	1	Connector, Straight, SAE 16-16P - male JIC 37 x male NPT	
14	2711902	1	Hose Assembly, Main Control Valve to Reservoir	
15	8303713	3	Screw, Hex Hd Cap, 1/2-13 x 2-1/4 Gr 5	
16	8307112	3	Washer, Flat, SAE 1/2	
17	8305644	3	Locknut, 1/2-13	
18	8640208	1	O-Ring #228	
19	8546407	2	Clamp Half 2in	
20	8760545	1	Reducer, SAE 16-8 - male str. thd. O-ring x female internal O-ring boss	
21	2712342	1	Hose Assembly, Reservoir Return	
22	8760109	1	Connector, Straight, SAE 12-12 - male JIC 37 x male str. thd. O-ring	
23	8760102	1	Connector, Straight SAE 16-16 - male JIC 37 x male str. thd. O-ring	
24	8760108	1	Connector, Straight, SAE 8-10 - male JIC 37 x male str. thd. O-ring	

SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-9. BOOM RAISE/LOWER AND EXTEND/RETRACT CIRCUITS (Prior to SN 9B0500)



PA0463

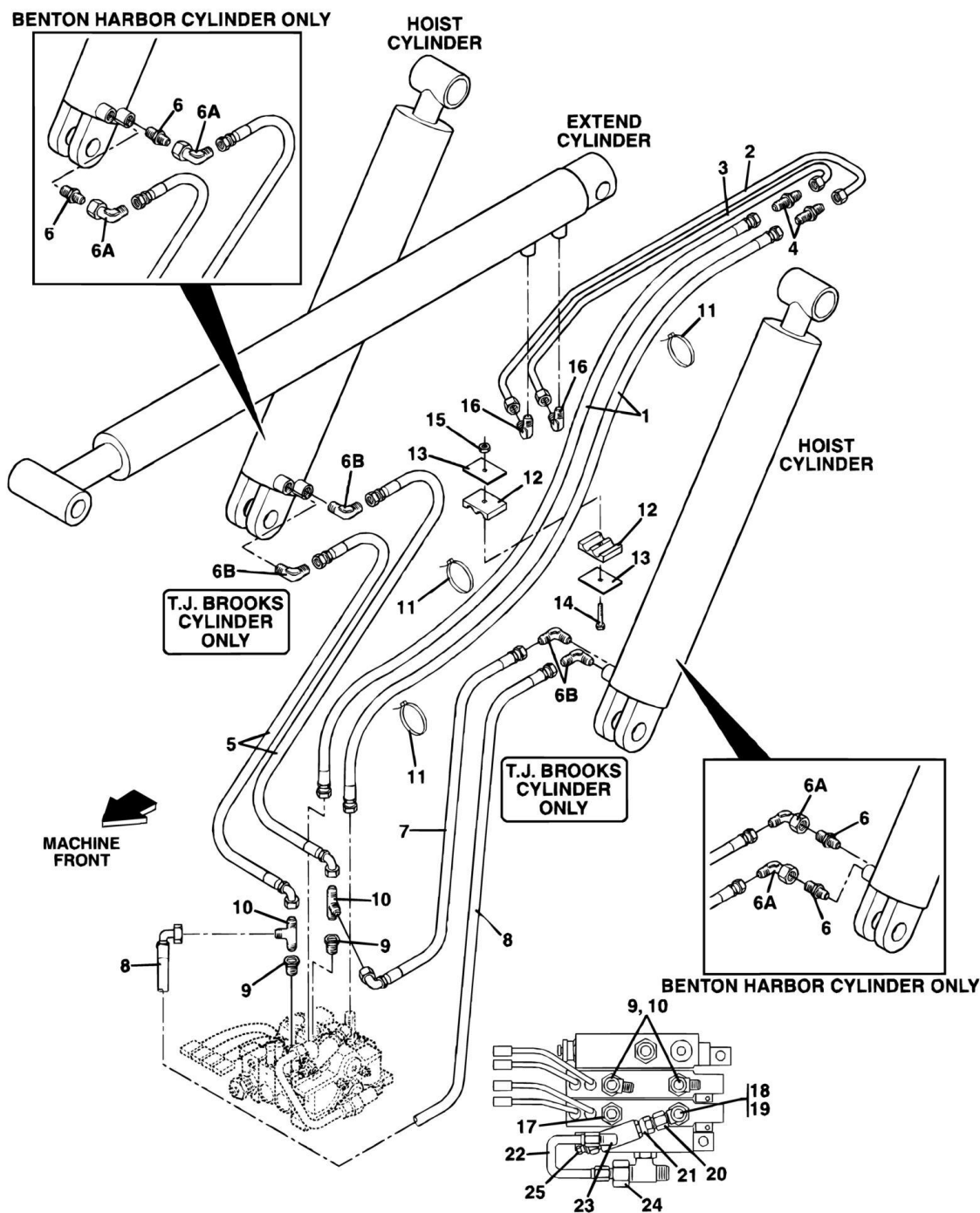
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-9. BOOM RAISE/LOWER AND EXTEND/RETRACT CIRCUITS (Prior to SN 9B0500)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2711862	2	Hose Assembly, Extend Cylinder	
2	7081843	1	Tube Assembly	
3	7081833	1	Tube Assembly	
4	8760037	2	Union, Bulkhead, Straight, SAE 10 - male JIC 37	
5	2711852	2	Hose Assembly, Right Hoist Cylinder	
6	8760305	4	Elbow, 90, SAE 12-12 - male str. thd. O-ring	
7	2712132	1	Hose Assembly, Left Hoist Cylinder Rod	
8	2712152	1	Hose Assembly, Left Hoist Cylinder Base	
9	8760101	2	Connector, Straight, SAE 10-12 - male JIC 37 x male str. thd. O-ring	
10	8760535	2	Reducer, SAE 12-8 - male str. thd. O-ring female internal O-ring boss	
11	8760510	2	Tee, Male Run, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
12	8584002	4	Tie Wrap (Not Shown)	
13	8769127	1	Clamp Set, 1in ID - 2 Halves	
14	8769128	2	Plate, Cover	
15	8760304	2	Elbow, 90, SAE 10-10 - male JIC 37 x male str. thd. O-ring	
16	8303752	1	Scerw, Hex Hd Cap, 5/16-18 x 3-1/2	
17	8305626	1	Locknut, 5/16-18	

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FIGURE 5-10. BOOM RAISE/LOWER AND EXTEND/RETRACT CIRCUITS (W/ELECTRONIC CONTROLLED JOYSTICK) (SN 9B500 to Present)



PA0973

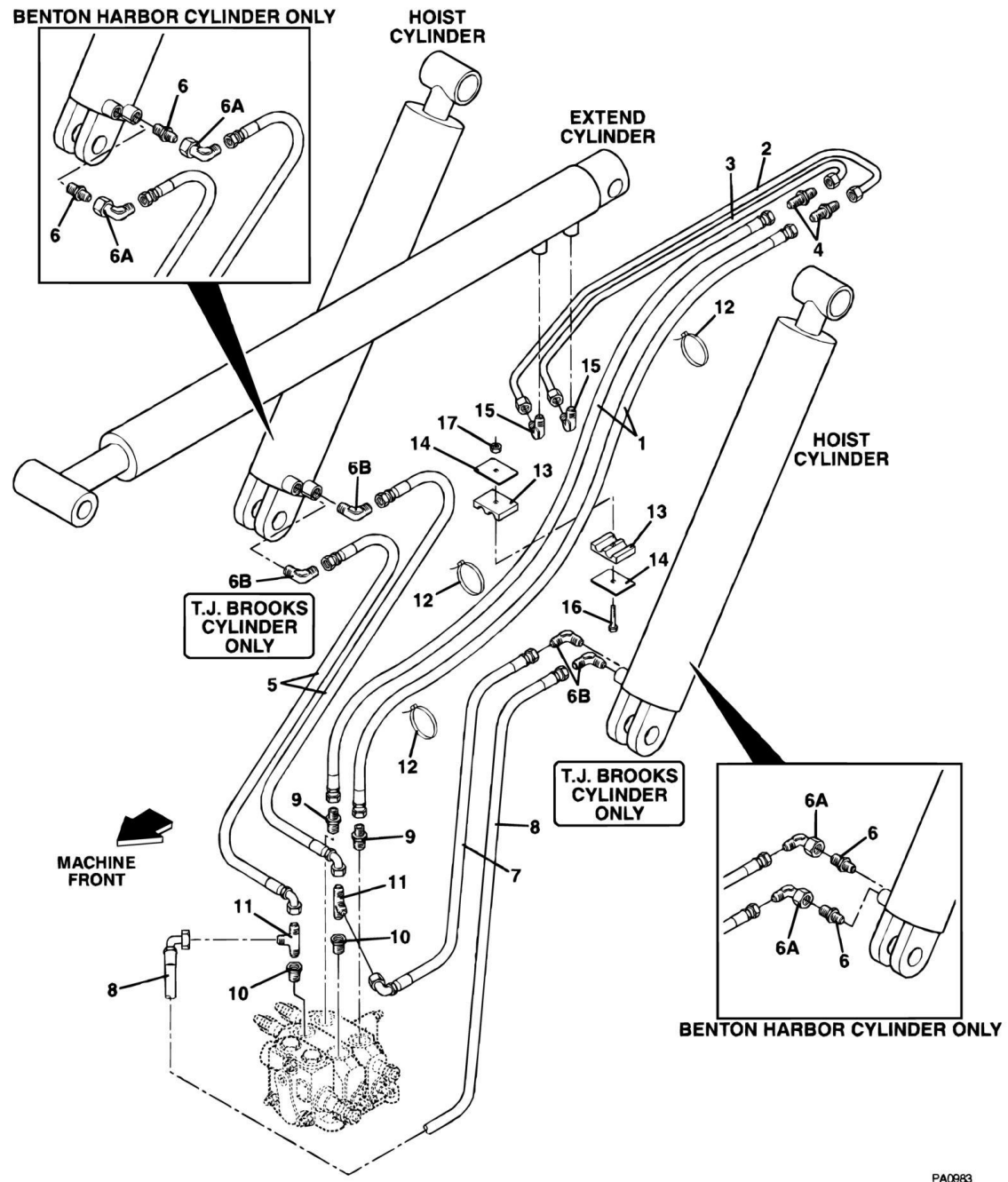
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-10. BOOM RAISE/LOWER AND EXTEND/RETRACT CIRCUITS (W/ELECTRONIC CONTROLLED JOYSTICK) (SN 9B500 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2711862	2	Hose Assembly, Extend Cylinder	
2	7081833	1	Tube Assembly	
3	7081843	1	Tube Assembly	
4	8760037	2	Union, Bulkhead, Straight, SAE 10 - male JIC 37	
5	2711852	2	Hose Assembly, Right Hoist Cylinder	
6	8760109	4	Connector, Straight, SAE 12-12 - male JIC 37 x male str. thd. O-ring (Benton Harbor Cyl. Only)	
6A	8760254	4	Elbow, 90, SAE 12-12 - male JIC 37 x female JIC 37, swivel (Benton Harbor Cyl. Only)	
6B	8760305	4	Elbow, 90, SAE 12-12 - male JIC 37 x female JIC 37, O-ring (T.J Brooks Cyl. Only)	
7	2712132	1	Hose Assembly, Left Hoist Cylinder Rod	
8	2712152	1	Hose Assembly, Left Hoist Cylinder Base	
9	8760535	2	Reducer, SAE 12-8 - male str. thd. O-ring x female internal O-ring boss	
10	8760510	2	Tee, Male Run, SAE 8-8 - male JIC 37 x male str. thd O-ring	
11	8584002	3	Tie Wrap	
12	8769127	1	Clamp Set, 1in ID - 2 Halves	
13	8769128	2	Plate, Cover	
14	8303752	1	Screw, Hex Hd Cap, 5/16-18 x 3-1/2	
15	8305626	1	Locknut, 5/16-18	
16	8760304	2	Elbow, 90, SAE 10-10 - male JIC 37 x male str. thd. O-ring	
17	8760101	2	Connector, Straight, SAE 10-12 - male JIC 37 x male str. thd. O-ring	
18	8760550	1	Reducer, SAE 10-12 - male str. thd. O-ring x female internal O-ring boss	
19	8760481	1	Tee, Male Run, SAE 10-10 - male JIC 37 x male str. thd O-ring	
20	8760486	1	Reducer, SAE 10-8 - male JIC 37 x male str. thd. O-ring	
21	88760142	1	Connector, Straight, SAE 8-8 - male str. thd. O-ring x female JIC 37, swivel	
22	7089292	1	Tube Assembly, 1/2 O.D.	
23	8760303	1	Elbow, 90, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
24	8760533	1	Reducer, SAE 16-8 - female JIC 37 x male JIC 37	
25	8902655	1	Valve, Relief (Set at 2850 psi $\pm$ 50 psi)	

SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-11. BOOM RAISE/LOWER AND EXTEND/RETRACT CIRCUITS (W/CABLE CONTROLLED JOYSTICK) (SN 9B500 to Present)



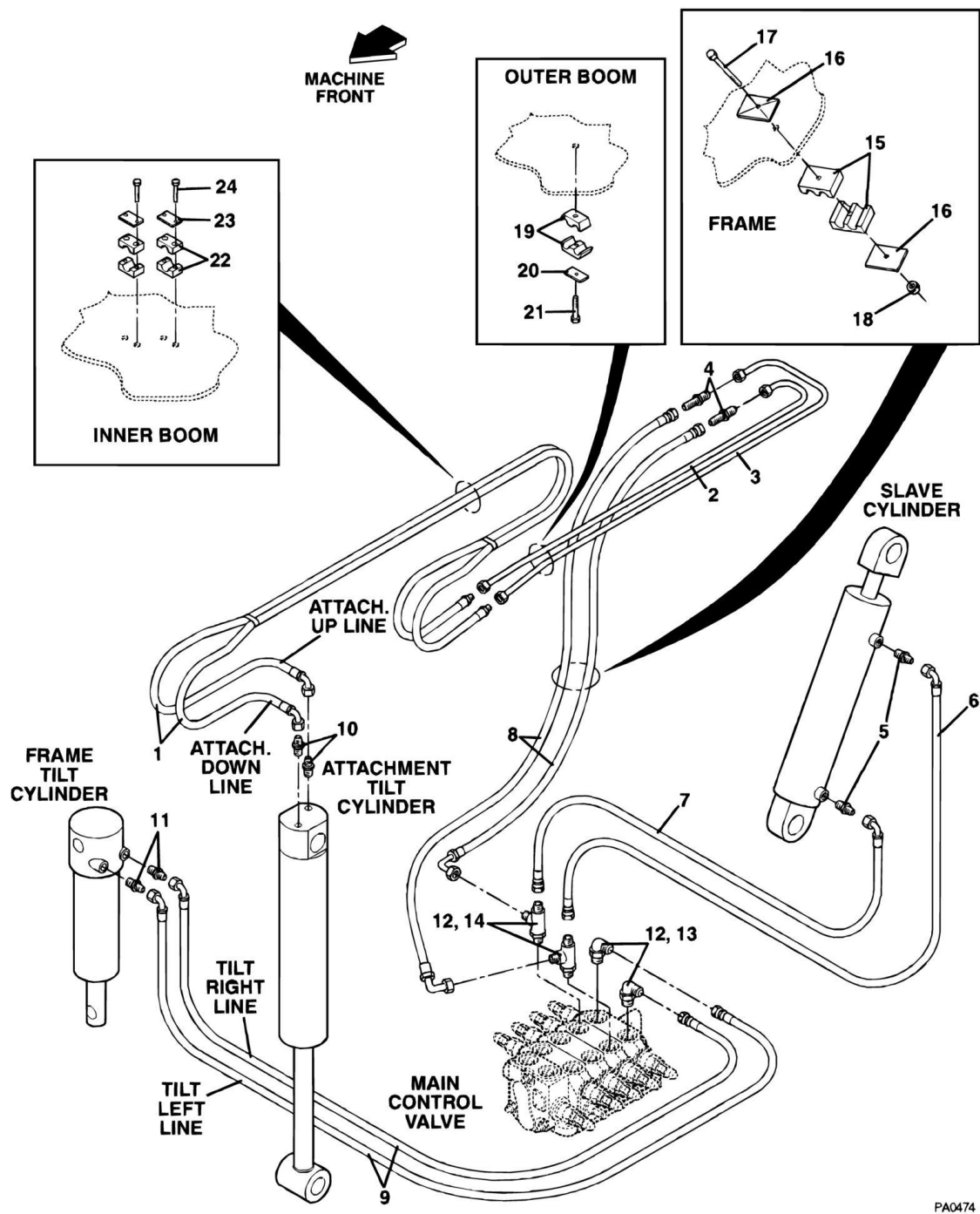
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-11. BOOM RAISE/LOWER AND EXTEND/RETRACT CIRCUITS (W/CABLE CONTROLLED JOYSTICK) (SN 9B500 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2711862	2	Hose Assembly, Extend Cylinder	
2	7081833	1	Tube Assembly	
3	7081843	1	Tube Assembly	
4	8760037	2	Union, Bulkhead, Straight, SAE 10 - male JIC 37	
5	2711852	2	Hose Assembly, Right Hoist Cylinder	
6	8760109	4	Connector, Straight, SAE 12-12 - male JIC 37 x male str. thd. O-ring (Benton Harbor Cyl. Only)	
6A	8760254	4	Elbow, 90, SAE 12-12 - male JIC 37 x female JIC 37, swivel (Benton Harbor Cyl. Onyl)	
6B	8760305	4	Elbow, 90, SAE 12-12 - male JIC 37 x female JIC 37, O-ring (T.J Brooks Cyl. Onyl)	
7	2712132	1	Hose Assembly, Left Hoist Cylinder Rod	
8	2712152	1	Hose Assembly, Left Hoist Cylinder Base	
9	8760101	2	Connector, Straight, SAE 10-12 - male JIC 37 x male str. thd. O-ring	
10	8760535	2	Reducer, SAE 12-8 - male str. thd. O-ring x female internal O-ring boss	
11	8760510	2	Tee, Male Run, SAE 8-8 - male JIC 37 x male str. thd O-ring	
12	8584002	3	Tie Wrap	
13	8769127	1	Clamp Set, 1in ID - 2 Halves	
14	8769128	2	Plate, Cover	
15	8760304	2	Elbow, 90, SAE 10-10 - male JIC 37 x male str. thd. O-ring	
16	8303752	1	Screw, Hex Hd Cap, 5/16-18 x 3-1/2	
17	8305626	1	Locknut, 5/16-18	

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FIGURE 5-12. ATTACHMENT TILT, SLAVE AND FRAME TILT CIRCUITS (Prior to SN 9B0500)



PA0474

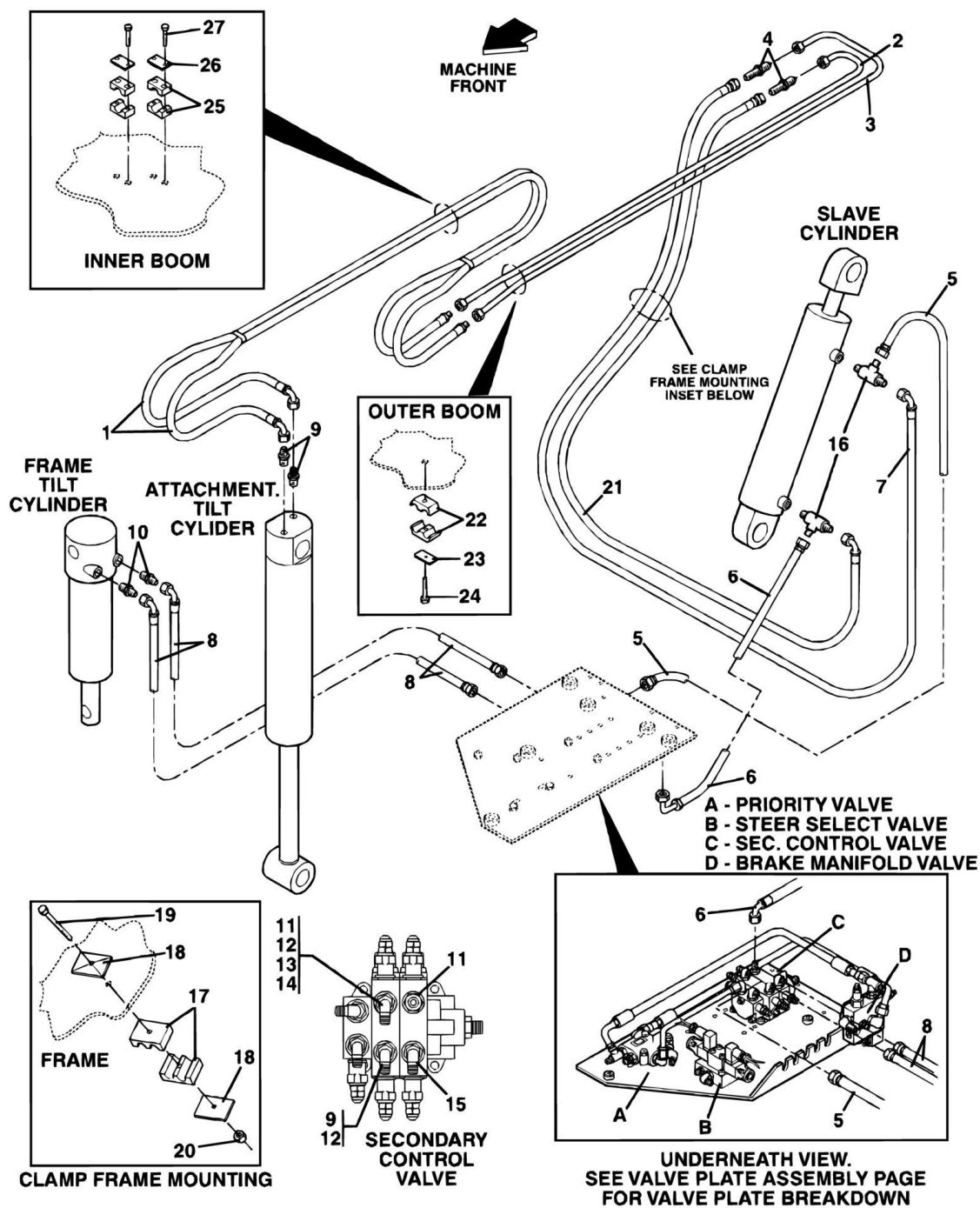
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-12. ATTACHMENT TILT, SLAVE AND FRAME TILT CIRCUITS (Prior to SN 9B0500)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2711882	2	Hose Assembly, Attachment Tilt Cylinder	
2	7082673	1	Tube Assembly, Attachment Tilt Cylinder	
3	7084673	1	Tube Assembly, Attachment Tilt Cylinder	
4	8760045	2	Union, Bulkhead, Straight, SAE 8 - male JIC 37	
5	8760107	2	Connector, Straight, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
6	2711872	1	Hose Assembly, Slave Cylinder Retract	
7	2712122	1	Hose Assembly, Slave Cylinder Extend	
8	2712112	2	Hose Assembly, Slave Tube	
9	2711892	2	Hose Assembly, Frame Tilt Cylinder	
10	8760110	2	Connector, Straight, SAE 6-8 - male JIC 37 x male str. thd. O-ring	
11	8760134	2	Connector, Straight, SAE 6-4 - male JIC 37 x male str. thd. O-ring	
12	8760535	4	Reducer, SAE 12-8 - male str. thd. O-ring x female internal O-ring boss	
13	8760313	2	Elbow, 90, SAE 6-8 - male JIC 37 x male str. thd. O-ring	
14	8760510	2	Tee Male Run, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
15	8769139	1	Clamp Set, Twin (2 halves, 3/4 ID)	
16	8769128	2	Plate, Cover	
17	8303752	2	Screw, Hex Hd Cap, 5/16-18 x 3	
18	8305626	1	Locknut, 5/16-18	
19	8769122	3	Clamp Set, Twin Tube (2 halves, 5/8 ID)	
20	8769123	3	Plate, Clamp Top	
21	8303739	3	Screw, Hex Hd Cap, 5/16-18 x 1-1/4	
22	8769129	2	Clamp Set, Single (2 halves, 5/8 ID)	
23	8769146	2	Cover, Clamp	
24	8303743	4	Screw, Hex Hd Cap, 1/4-20 x 1-1/2	
		Ref	NOTE: FOR RETROFIT INFORMATION ON AUXILIARY HYDRAULIC CIRCUITS AND RELATED COMPONENTS, REFER TO THE AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL PAGES.	

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FIGURE 5-13. ATTACHMENT TILT, SLAVE AND FRAME TILT CIRCUITS (SN 9B0500 through 1316)



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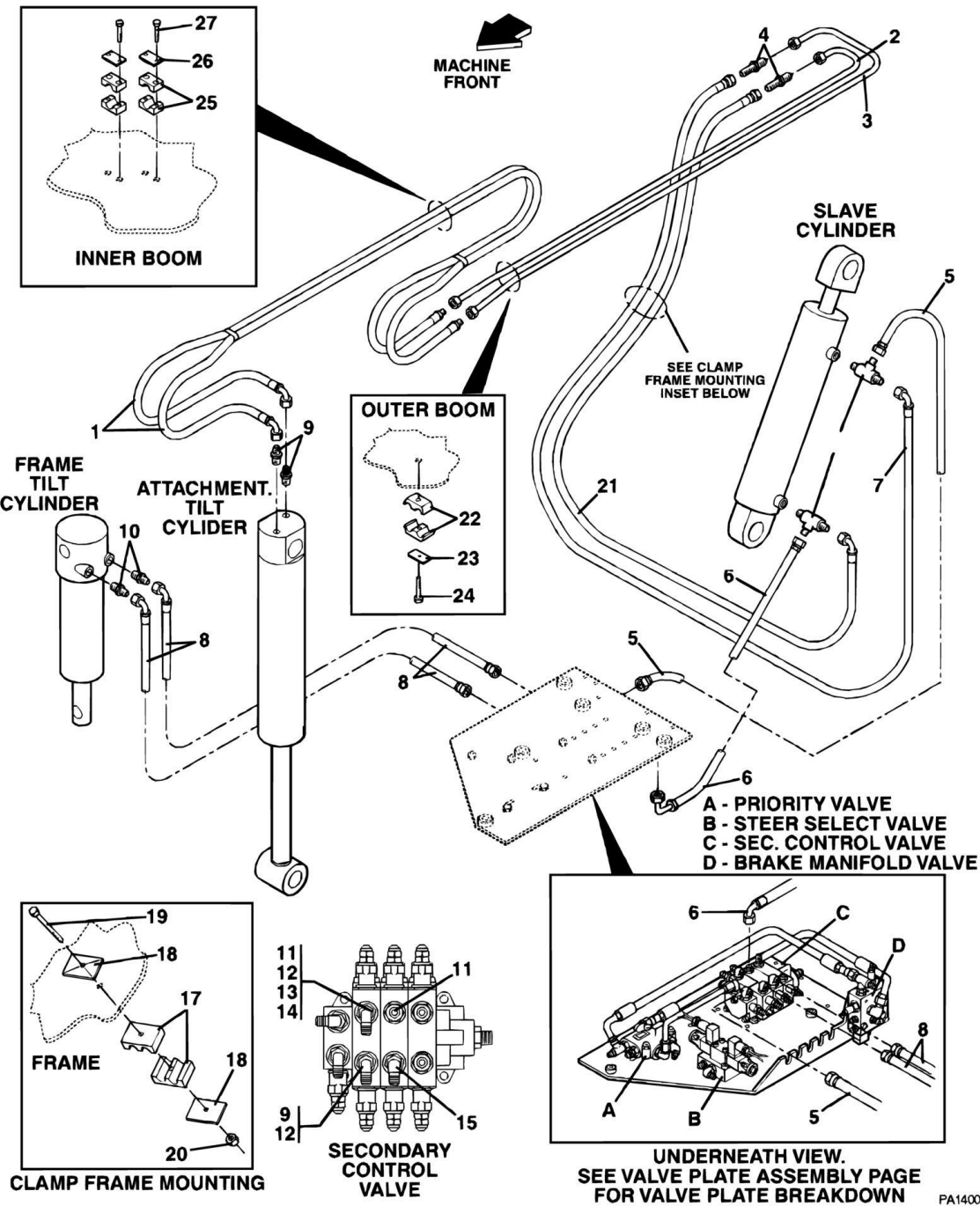
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-13. ATTACHMENT TILT, SLAVE AND FRAME TILT CIRCUITS (SN 9B0500 through 1316)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2711882	2	Hose Assembly, Attachment Tilt Cylinder	
2	7082673	1	Tube Assembly, Attachment Tilt Cylinder	
3	7084673	1	Tube Assembly, Attachment Tilt Cylinder	
4	8760045	2	Union, Bulkhead, Straight, SAE 8 - male JIC 37	
5	2709372	1	Hose Assembly, Slave Cylinder Retract	
6	2712322	1	Hose Assembly, Slave Cylinder Extend	
7	2712112	1	Hose Assembly, Slave Tube	
8	6604782	2	Hose Assembly, Frame Tilt Cylinder	
9	8760110	3	Connector, Straight, SAE 6-8 - male JIC 37 x male str. thd. O-ring	
10	8760134	2	Connector, Straight, SAE 4-4 - male JIC 37 x male str. thd. O-ring	
11	8760107	2	Connector, Straight, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
12	8760268	2	Elbow, 90, SAE 6-6 - male JIC 37 x female JIC 37, swivel	
13	8760458	1	Reducer, Tube End, SAE 8-6 - JIC 37	
14	8760407	1	Nut, SAE 8 - JIC 37	
15	8760303	1	Elbow, 90, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
16	8760510	2	Tee, Male Run, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
17	8769139	1	Clamp Set, Twin (2 halves, 3/4 ID)	
18	8769128	2	Plate, Cover	
19	8303752	1	Screw, Hex Hd Cap, 5/16-18 x 3	
20	8305626	1	Locknut, 5/16-18	
21	2711912	1	Hose Assembly, Slave to Tube	
22	8769122	3	Clamp Set, Twin Tube (2 halves 5/8 ID)	
23	8769123	3	Plate, Clamp Top	
24	8303739	3	Scw, Hex Hd Cap, 5/16-28 x 1-1/4	
25	8769129	2	Clamp Set, Single (2 halves, 5/8 ID)	
26	8769146	2	Cover, Clamp	
27	8303743	4	Screw, Hex Hd Cap, 1/4-20 x 1-1/2	
		Ref	NOTE: FOR RETROFIT INFORMATION ON AUXILIARY HYDRAULIC CIRCUITS AND RELATED COMPONENTS, REFER TO THE AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL PAGES.	

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FIGURE 5-14. ATTACHMENT TILT, SLAVE AND FRAME TILT CIRCUITS (SN 1317 to Present)



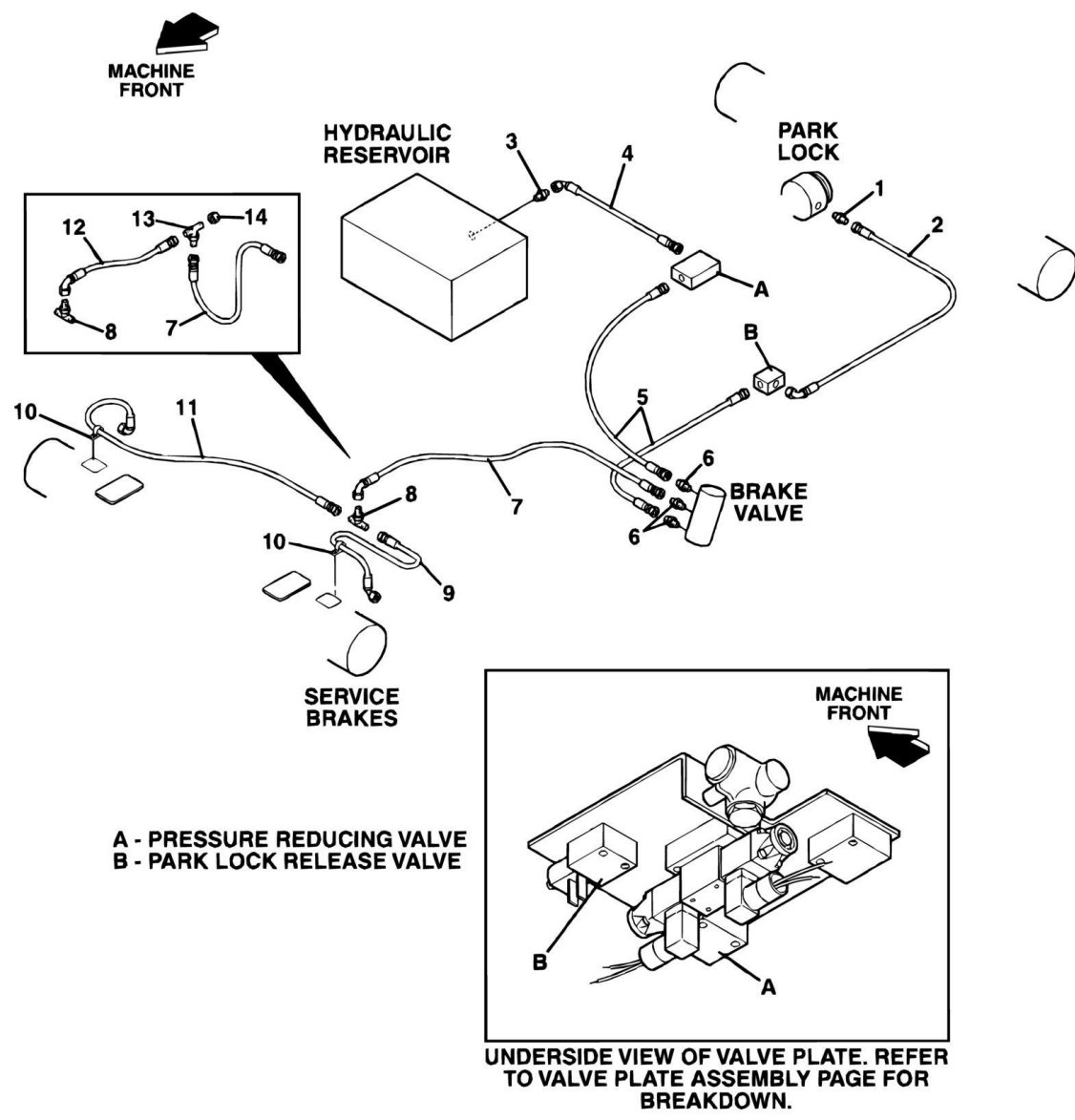
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-14. ATTACHMENT TILT, SLAVE AND FRAME TILT CIRCUITS (SN 1317 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2711882	2	Hose Assembly, Attachment Tilt Cylinder	
2	7082673	1	Tube Assembly, Attachment Tilt Cylinder	
3	7084673	1	Tube Assembly, Attachment Tilt Cylinder	
4	8760045	2	Union, Bulkhead, Straight, SAE 8 - male JIC 37	
5	2709372	1	Hose Assembly, Slave Cylinder Retract	
6	2712322	1	Hose Assembly, Slave Cylinder Extend	
7	2712112	1	Hose Assembly, Slave Tube	
8	6604782	2	Hose Assembly, Frame Tilt Cylinder	
9	8760110	3	Connector, Straight, SAE 6-8 - male JIC 37 x male str. thd. O-ring	
10	8770031	2	Connector, Straight, SAE 4-4 - male JIC 37 x male str. thd. O-ring	
11	8760107	2	Connector, Straight, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
12	8760268	2	Elbow, 90, SAE 6-6 - male JIC 37 x female JIC 37, swivel	
13	8760458	1	Reducer, Tube End, SAE 8-6 - JIC 37	
14	8760407	1	Nut, SAE 8 - JIC 37	
15	8760303	1	Elbow, 90, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
16	8760510	2	Tee, Male Run, SAE 8-8 - male JIC 37 x male str. thd O-ring	
17	8769139	1	Clamp Set, Twin (2 halves, 3/4 ID)	
18	8769128	2	Plate, Cover	
19	8303752	1	Screw, Hex Hd Cap, 5/16-18 x 3	
20	8305626	1	Locknut, 5/16-18	
21	2711912	1	Hose Assembly, Slave to Tube	
22	8769122	3	Clamp Set, Twin Tube (2 halves, 5/8 ID)	
23	8769123	3	Plate, Clamp Top	
24	8303739	3	Screw, Hex Hd Cap, 5/16-18 x 1-1/4	
25	8769154	2	Clamp Set, (2 halves, 5/8 ID)	
26	8769153	2	Cover, Clamp	
27	8303743	4	Screw, Hex Hd Cap, 1/4-20 x 1-1/2	

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FIGURE 5-15. BRAKE CIRCUITS - W/2 WHEEL SERVICE BRAKES (Prior to SN 9B0500)



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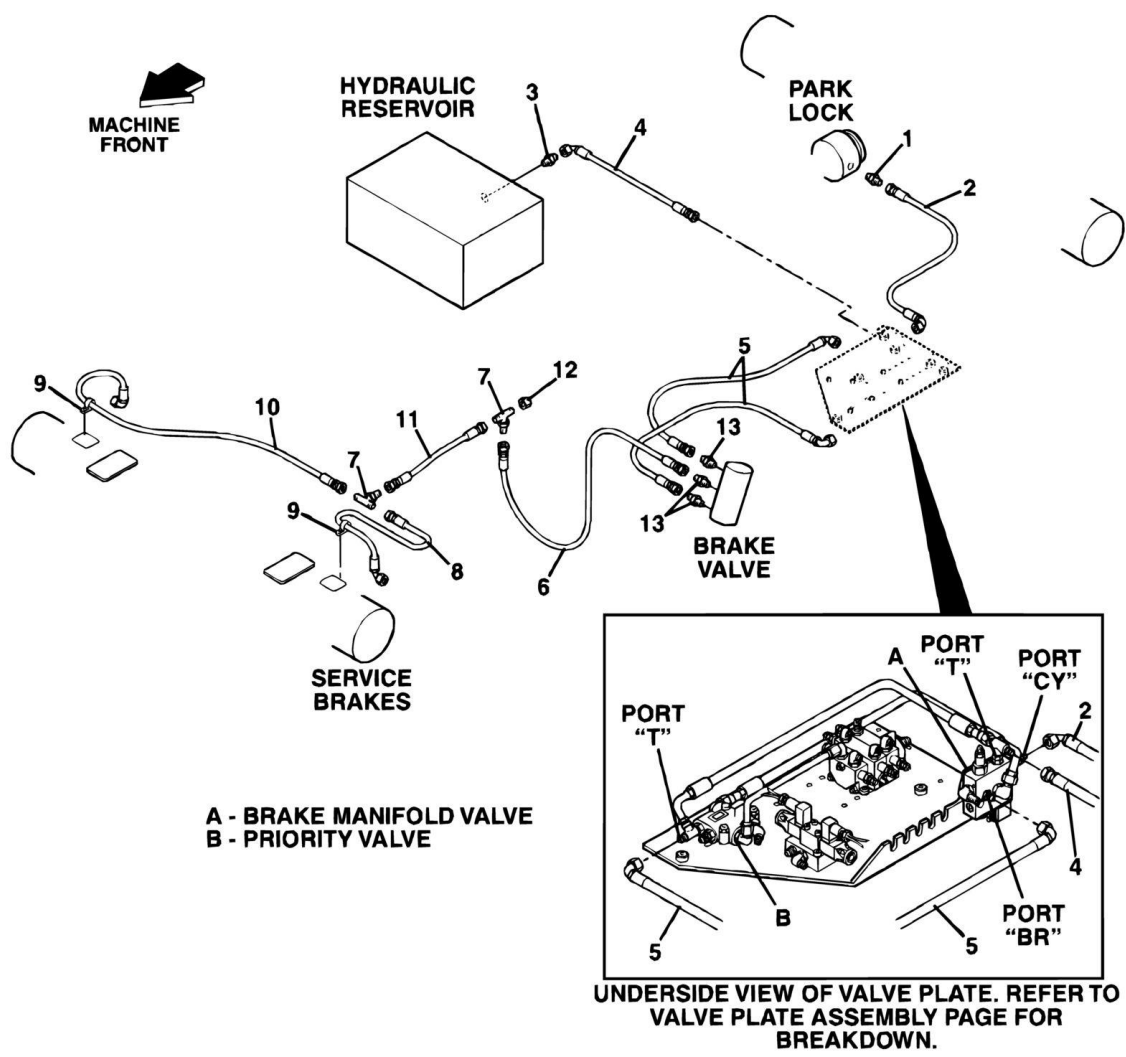
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-15. BRAKE CIRCUITS - W/2 WHEEL SERVICE BRAKES (Prior to SN 9B0500)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8760113	1	Connector, Straight, SAE 4-4 - male JIC 37 x male str. thd. O-ring	
2	2712052	1	Hose Assembly, Transmission Declutch	
3	8760036	1	Connector, Straight, SAE 6-8 - male JIC 37 x male NPT	
4	2712072	1	Hose Assembly, Pressure Reducing Valve to Tank	
5	2712042	2	Hose Assembly, Brake Valve	
6	8760110	3	Connector, Straight, SAE 6-8 - male JIC 37 x male str. thd. O-ring	
7	2712032	1	Hose Assembly (Prior to SN 8L0334)	
7	2710672	1	Hose Assembly (SN 8L0334 through 9B0499)	
8	8760455	1	Tee, Bulkhead, Male Branch, SAE 6 - male JIC 37	
9	2712092	1	Hose Assembly, Left Front Service Brake	
10	8406105	2	Clamp, 3/4 ID	
11	2712022	1	Hose Assembly, Right Front Service Brake	
12	2711972	1	Hose Assembly (SN 8L0334 through 9B0499)	
13	8760455	1	Tee, Bulkhead, Male Branch, SAE 6 - male JIC 37 (SN 8L0334 through 9B00499)	
14	8760488	1	Cap, SAE 6 - JIC 37 (SN 8L0334 to Present)	

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FIGURE 5-16. BRAKE CIRCUITS - W/2 WHEEL SERVICE BRAKES (SN 9B0500 through 0E1179)



PA1003

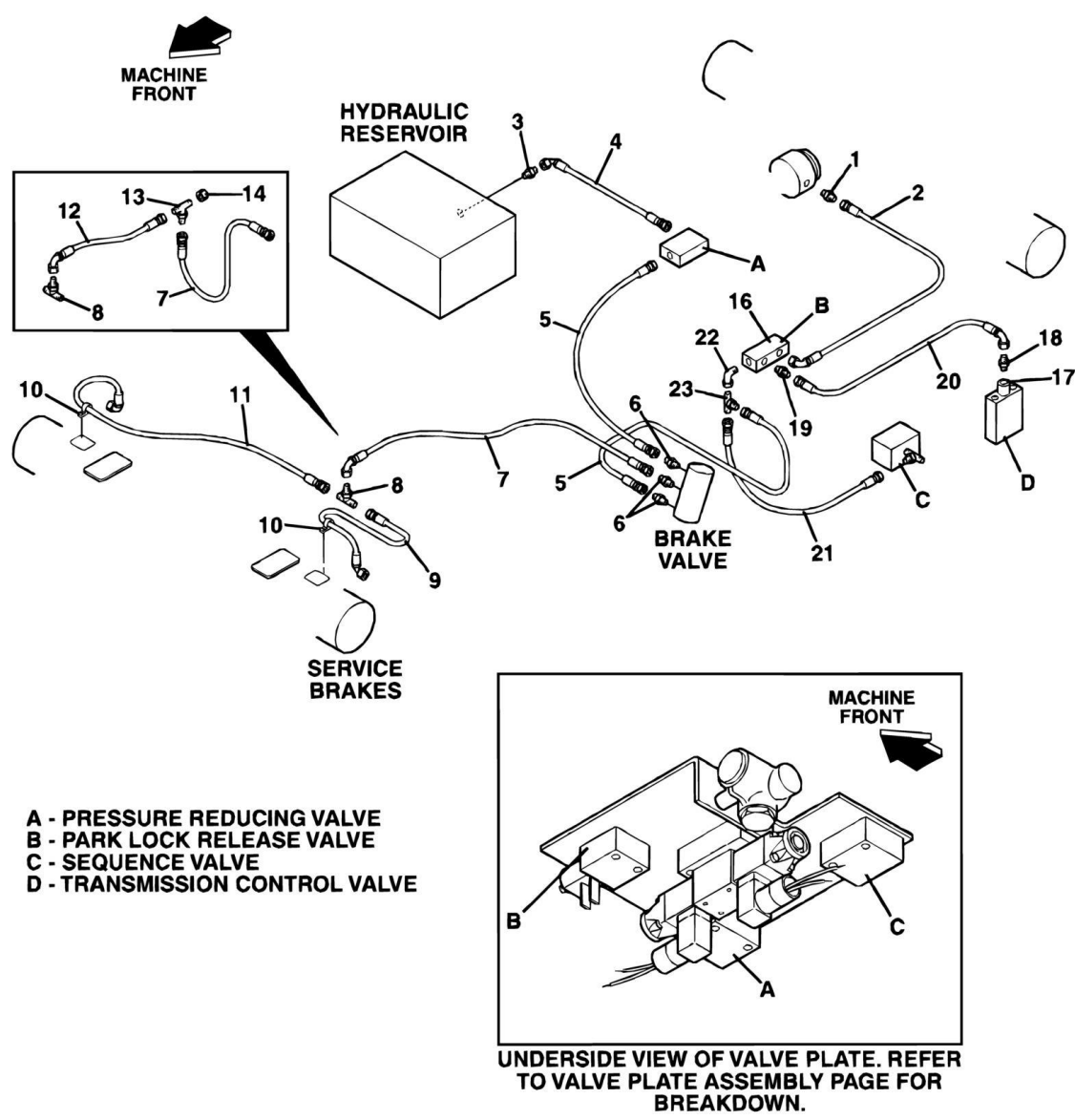
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-16. BRAKE CIRCUITS - W/2 WHEEL SERVICE BRAKES (SN 9B0500 through 0E1179)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8760113	1	Connector, Straight, SAE 4-4 - male JIC 37 x male str. thd. O-ring	
2	6605152	1	Hose Assembly, Park Lock	
3	8760036	1	Connector, Straight, SAE 6-8 - male JIC 37 x male NPT	
4	2712072	1	Hose Assembly, Brake Manifold Valve to Tank	
5	2712332	2	Hose Assembly, Brake Drain	
6	2710672	1	Hose Assembly, Brake Output	
7	8760455	2	Tee, Bulkhead, Male Branch, SAE 6 - male JIC 37	
8	2712092	1	Hose Assembly, Left Front Service Brake	
9	8406105	2	Clamp, 3/4 ID	
10	2712022	1	Hose Assembly, Right Front Service Brake	
11	2711492	1	Hose Assembly	
12	8760488	1	Cap, SAE 6 - JIC 37	
13	8760110	3	Connector, Straight, SAE 6-8 - male JIC 37 x male str. thd. O-ring	

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FIGURE 5-17. BRAKE CIRCUITS - W/2 WHEEL SERVICE BRAKES (W/DECLUTCH CONVERSION INSTALLED) (Prior to SN 9B0500)



PA1500

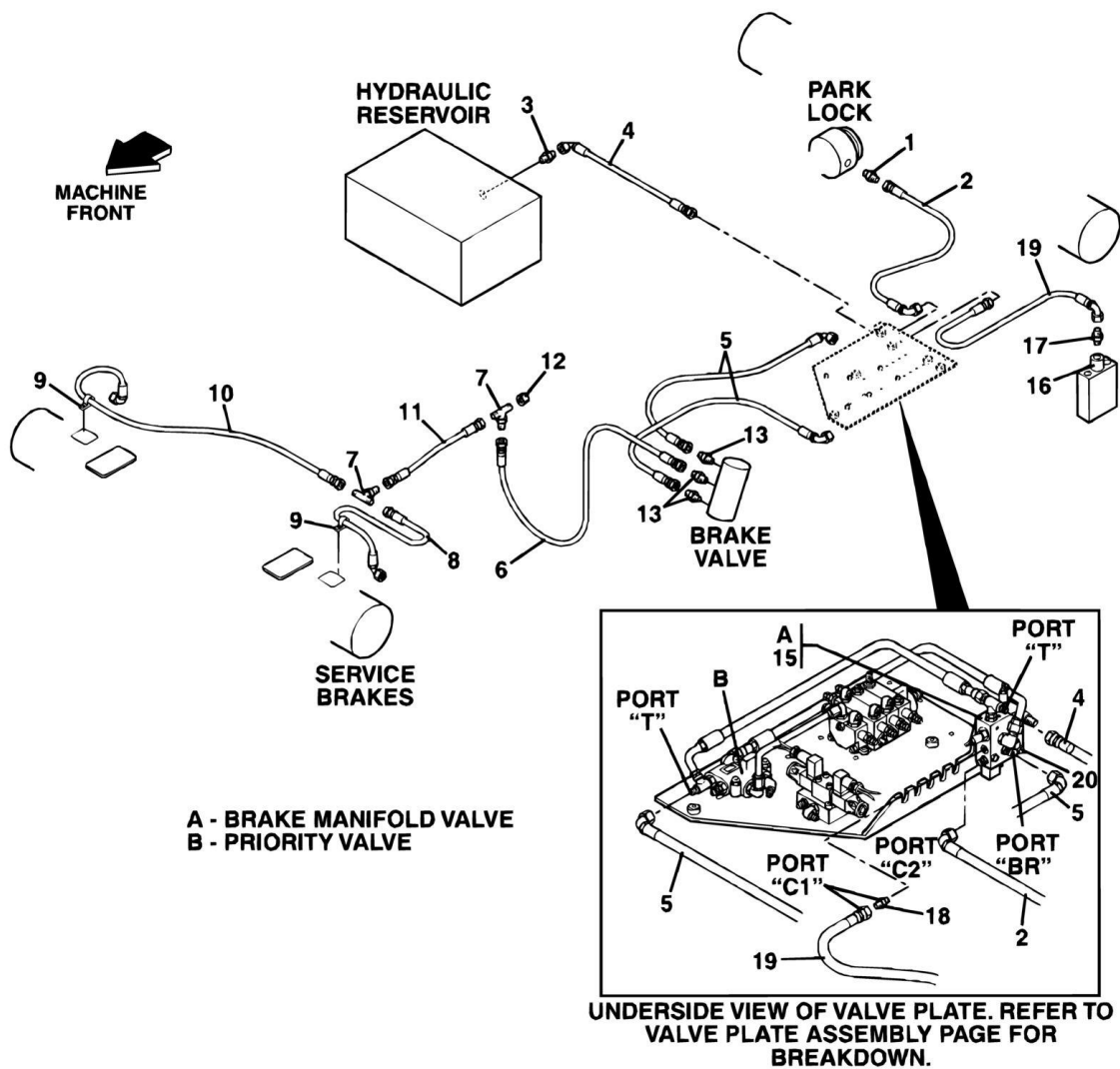
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-17. BRAKE CIRCUITS - W/2 WHEEL SERVICE BRAKES (W/DECLUTCH CONVERSION INSTALLED) (Prior to SN 9B0500)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8760113	1	Connector, Straight, SAE 4-4 - male JIC 37 x male str. thd. O-ring	
2	2712052	1	Hose Assembly, Transmission Declutch	
3	8760036	1	Connector, Straight, SAE 6-8 - male JIC 37 x male NPT	
4	2712072	1	Hose Assembly, Pressure Reducing Valve to Tank	
5	2712042	2	Hose Assembly, Brake Valve	
6	8760110	3	Connector, Straight, SAE 6-8 - male JIC 37 x male str. thd. O-ring	
7	2712032	1	Hose Assembly (Prior to SN 8L0334)	
7	2710672	1	Hose Assembly (SN 8L0334 to Present)	
8	8760455	1	Tee, Bulkhead, Male Branch, SAE 6 - male JIC 37	
9	2712092	1	Hose Assembly, Left Front Service Brake	
10	8406105	2	Clamp, 3/4 ID	
11	2712022	1	Hose Assembly, Right Front Service Brake	
12	2711972	1	Hose Assembly (SN 8L0334 to Present)	
13	8760455	1	Tee, Bulkhead, Male Branch, SAE 6 - male JIC 37 (SN 8L0334 through 9B0499)	
14	8760488	1	Cap, SAE 6 - JIC 37 (SN 8L0334 through 9B0499)	
15	7093242	1	Kit, Transmission Declutch Conversion (Includes items 16 thru 22)	
16	8902134	1	Valve Assembly	
17	8841314	1	Declutch Cylinder Assembly	
18	8760011	1	Connector, Straight, SAE 4-2P, Male JIC 37 x male NPT	
19	8760010	1	Connector, Straight, SAE 4-4P, Male JIC 37 x male NPT	
20	2712052	1	Hose Assembly, Brake Valve to Declutch Cylinder	
21	6605652	1	Hose Assembly, Brake Valve to Sequence Valve	
22	8540214	1	Elbow, Straight, 90 x 1/4 NPT	
23	8760432	1	Tee, Male Branch, SAE 8-6P - male JIC 37 x male NPT	

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FIGURE 5-18. BRAKE CIRCUITS - W/2 WHEEL SERVICE BRAKES (W/DECLUTCH CONVERSION INSTALLED) (SN 9B0500 through 0E1179, SN 0E1180 to Present)



PA1510

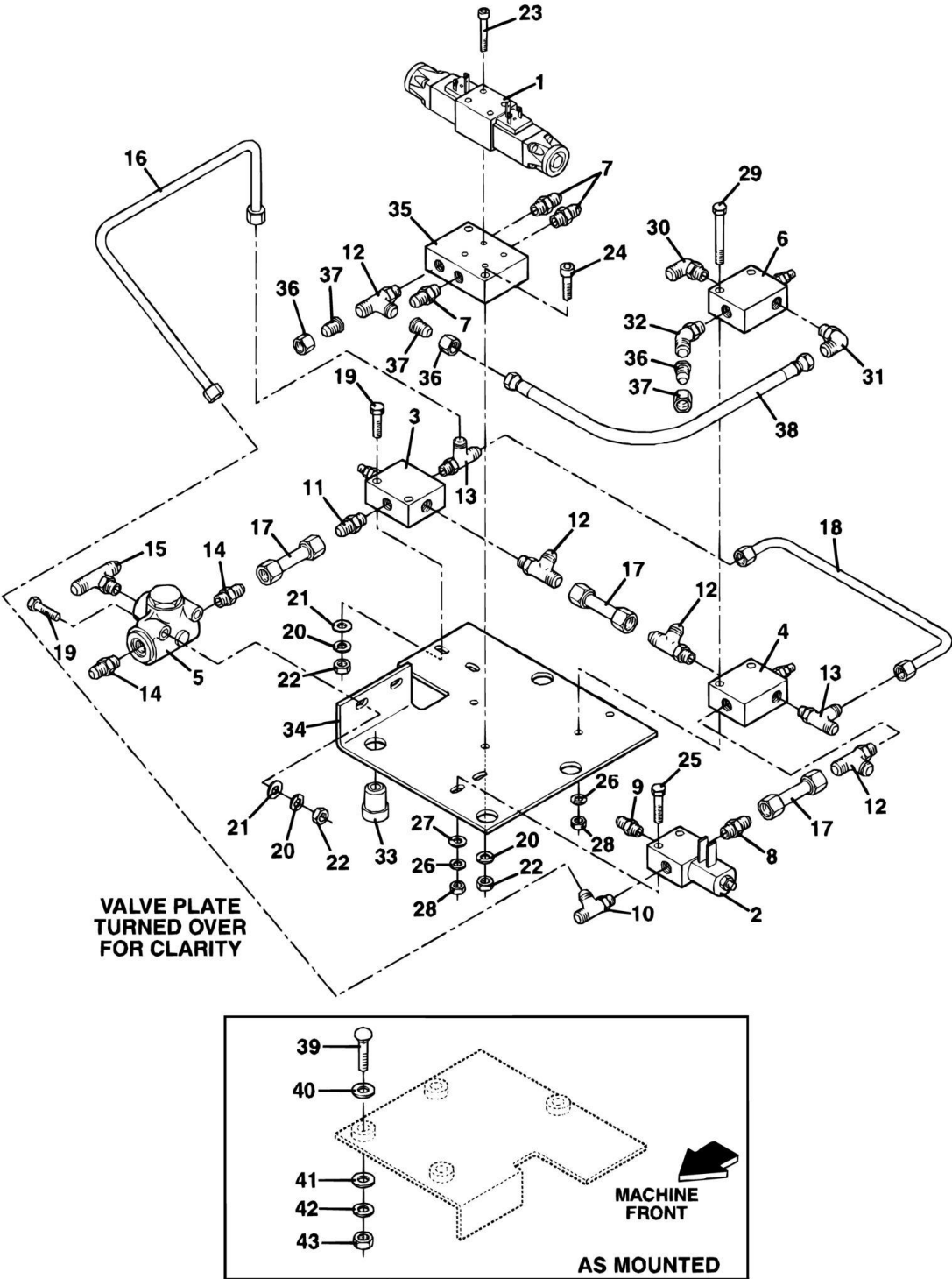
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FIGURE 5-18. BRAKE CIRCUITS - W/2 WHEEL SERVICE BRAKES (W/DECLUTCH CONVERSION INSTALLED) (SN 9B0500 through 0E1179, SN 0E1180 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8760113	1	Connector, Straight, SAE 4-8 - male JIC 37 x male str. thd. O-ring	
2	6605152	1	Hose Assembly, Park Lock	
3	8760036	1	Connector, Straight, SAE 6-8, male JIC 37 x male NPT	
4	2712072	1	Hose Assembly, Brake Manifold Valve to Tank	
5	2712332	2	Hose Assembly, Brake Drain	
6	2710672	1	Hose Assembly, Brake Output	
7	8760455	2	Tee, Branch, Bulkhead, SAE 6-6, male JIC 37 x male JIC 37	
8	2712092	1	Hose Assembly, Left Front Service Brake	
9	8406105	2	Clamp, 3/4 ID	
10	2712022	1	Hose Assembly, Right Front Service Brake	
11	2711492	1	Hose Assembly	
12	8760488	1	Cap #6	
13	8760110	3	Connector, Straight, SAE 6-8, male JIC 37 x male str. thd. O-ring	
14	7092552	1	Kit Transmission Declutch Conversion (Includes items 15 thru 19)	
15	8902659	1	Valve Assembly	
16	8841314	1	Declutch Cylinder Assembly	
17	8760011	1	Connector, Straight, SAE 4-2P, Male JIC 37 x male NPT	
18	8760113	1	Connector, Straight, SAE 4-8, male JIC 37 x male str. thd. O-ring	
19	2712052	1	Hose Assembly, Brake Valve to Declutch Cylinder	
20	8303728	2	Screw, Hex Hd Cap, 1/4-20 x 2-3/4	

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FIGURE 5-19. VALVE PLATE ASSEMBLY (Prior to SN 8F0236)



PA0503

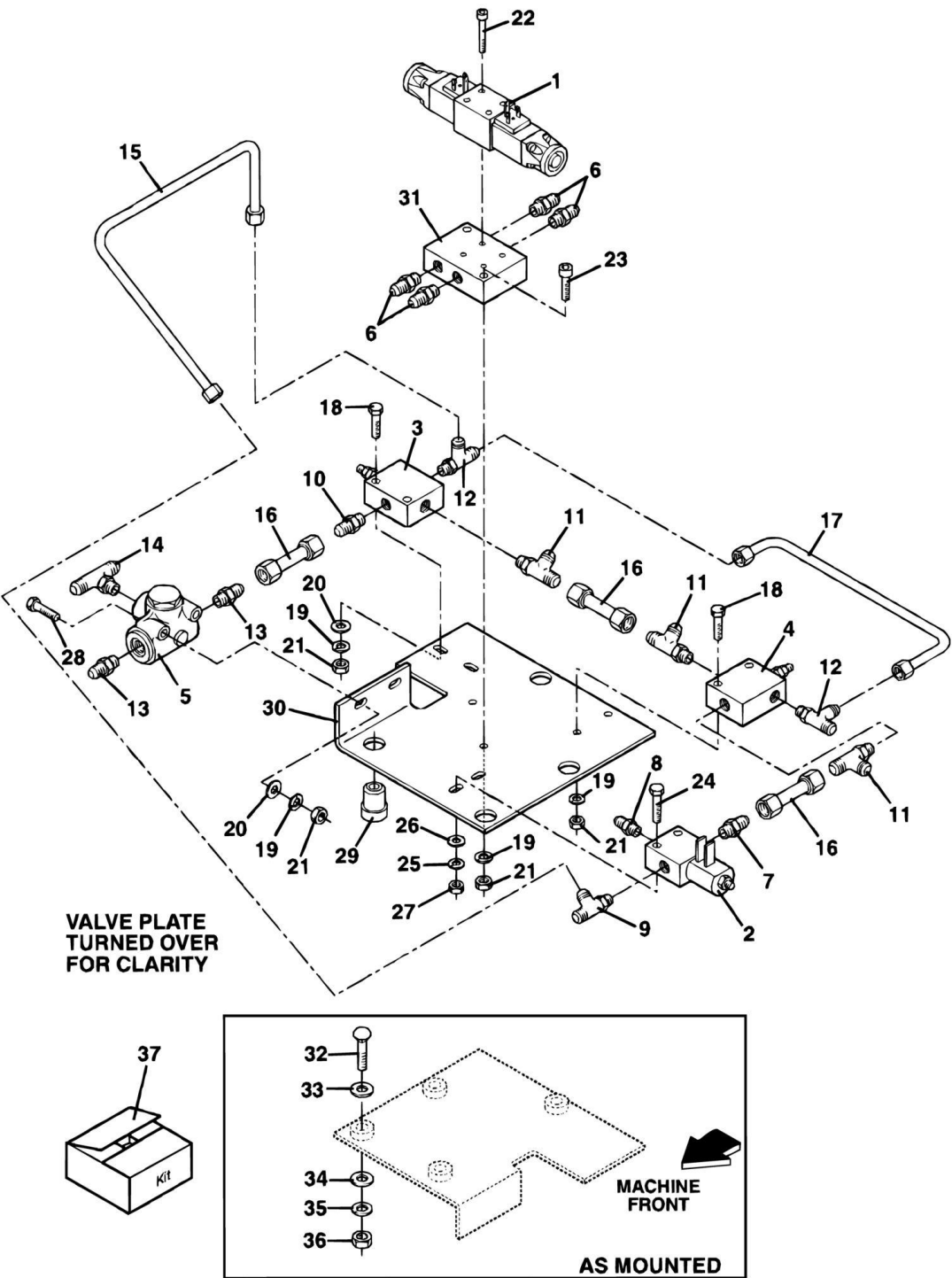
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-19. VALVE PLATE ASSEMBLY (Prior to SN 8F0236)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902109	1	Valve, Steer Select	
2	8902116	1	Valve, Park Lock Release	
3	8902224	1	Valve, Sequence	
4	8902225	1	Valve, Pressure Reducing	
5	8902651	1	Valve, Relief	
6	8902230	1	Valve, Sequence	
7	8760110	3	Connector, Straight, SAE 6-8, male JIC 37 x male str. thd. O-ring	
8	8760013	1	Connector, Straight, SAE 8-4P, male JIC 37 x male NPT	
9	8760010	1	Connector, Straight, SAE 4-4P, Male JIC 37 x male NPT	
10	8760432	1	Tee, Male Run, SAE 6-4P, male JIC 37 x male NPT	
11	8760107	1	Connector, Straight, SAE 8-10, male JIC 37 x male str. thd. O-ring	
12	8760510	4	Tee, Male Run, SAE 8-8, male JIC 37 x male str. thd. O-ring	
13	8760449	2	Tee, Male Run, SAE 6-6, male JIC 37 x male str. thd. O-ring	
14	8760108	2	Connector, Straight, SAE 10-10, male JIC 37 x male str. thd. O-ring	
15	8760464	1	Tee, Male Run, SAE 10-10, male JIC 37 x male str. thd. O-ring	
16	7081783	1	Tube Assembly	
17	7081731	3	Tube Assembly	
18	7081773	1	Tube Assembly	
19	8303746	4	Screw, Hex Hd Cap, 5/16-18 x 1-1/4	
20	8307004	6	Lockwasher, 5/16	
21	8307106	4	Washer, Flat, 5/16	
22	8305006	6	Nut, Hex, 5/16-18	
23	8304631	4	Screw, Socket Hd Cap, #10-24 x 2	
24	8304608	2	Screw, Socket Hd Cap, 5/16-18 x 1-1/2	
25	8303090	2	Screw, Hex Hd Cap, 1/4-20 x 1-3/4	
26	8307002	4	Lockwasher, 1/4	
27	8307102	2	Washer, Flat, 1/4	
28	8305004	4	Nut, Hex, 1/4-20	
29	8303082	2	Screw, Hex Hd Cap, 1/4-20 x 3	
30	8760313	1	Elbow, 90, SAE 6-8, male JIC 37 x male str. thd. O-ring	
31	8760311	1	Elbow, 90, SAE 6-6, male JIC 37 x male str. thd. O-ring	
32	8760307	1	Elbow, 45, SAE 8-8, male JIC 37 x male str. thd. O-ring	
33	8278008	4	Mount, Rubber	
34	7081693	1	Plate, Valve Mounting	
35	8902111	1	Subplate, Valve	
36	8760407	3	Nut, SAE 8 - JIC 37	
37	8760458	3	Reducer, Tube End, SAE 8-6, JIC 37	
38	2711382	1	Hose Assembly	
39	8304042	4	Bolt, Carriage, 3/8-16 x 2	
40	8307110	4	Washer, Flat Heavy, 3/8	
41	7057141	4	Washer, Rebound	
42	8307005	4	Lockwasher, 3/8	
43	8305008	4	Nut, Hex, 3/8-16	

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FIGURE 5-20. VALVE PLATE ASSEMBLY (SN 8G0236N through 9B0499)



PA0513

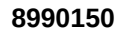
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-20. VALVE PLATE ASSEMBLY (SN 8G0236N through 9B0499)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902109	1	Valve, Steer Select	
2	8902116	1	Valve, Park Lock Release	
2	8902134	1	Valve, Park Lock Release (For Units with Declutch)	
3	8902224	1	Valve, Sequence	
4	8902225	1	Valve, Pressure Reducing	
5	8902651	1	Valve, Relief	
6	8760110	4	Connector, Straight, SAE 6-8, male JIC 37 x male str. thd. O-ring	
7	8760013	1	Connector, Straight, SAE 8-4P, male JIC 37 x male NPT	
8	8760010	1	Connector, Straight, SAE 4-4P, Male JIC 37 x male NPT	
9	8760432	1	Tee, Male Run, SAE 6-4P, male JIC 37 x male NPT	
10	8760107	1	Connector, Straight, SAE 8-10, male JIC 37 x male str. thd. O-ring	
11	8760510	3	Tee, Male Run, SAE 8-8, male JIC 37 x male str. thd. O-ring	
12	8760449	2	Tee, Male Run, SAE 6-6, male JIC 37 x male str. thd. O-ring	
13	8760108	2	Connector, Straight, SAE 10-10, male JIC 37 x male str. thd. O-ring	
14	8760464	1	Tee, Male Run, SAE 10-10, male JIC 37 x male str. thd. O-ring	
15	7081783	1	Tube Assembly	
16	7081731	3	Tube Assembly	
17	7081773	1	Tube Assembly	
18	8303746	2	Screw, Hex Hd Cap, 5/16-18 x 1-1/4	
19	8307004	8	Lockwasher, 5.16	
20	8307106	4	Washer, Flat, 5/16	
21	8305006	8	Nut, Hex, 5/16-18	
22	8304631	4	Screw, Socket Hd Cap, #10-24 x 2	
23	8304608	2	Screw, Socket Hd Cap, 5/16-18 x 1-1/2	
24	8303090	2	Screw, Hex Hd Cap, 1/4-20 x 1-3/4	
25	8307002	2	Lockwasher, 1/4	
26	8307102	2	Washer, Flat, 1/4	
27	8305004	2	Nut, Hex, 1/4-20	
28	8303786	2	Screw, Hex Hd Cap, 5/16-18 x 2-1/4	
29	8278008	4	Mount, Rubber	
30	7081693	1	Plate, Valve Mounting	
31	8902111	1	Subplate, Valve	
32	8304042	4	Bolt, Carriage, 3/8-16 x 2	
33	8307110	4	Washer, Flat Heavy, 3/8	
34	7057141	4	Washer, Rebound	
35	8307005	4	Lockwasher, 3/8	
36	8305008	4	Nut, Hex, 3/8-16	
		Ref	KITS	
37	7093242	1	Kit, Declutch Conversion (Refer to BRAKE CIRCUITS - W/2 WHEEL SERVICE BRAKES for Kit Parts)	

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PA1022

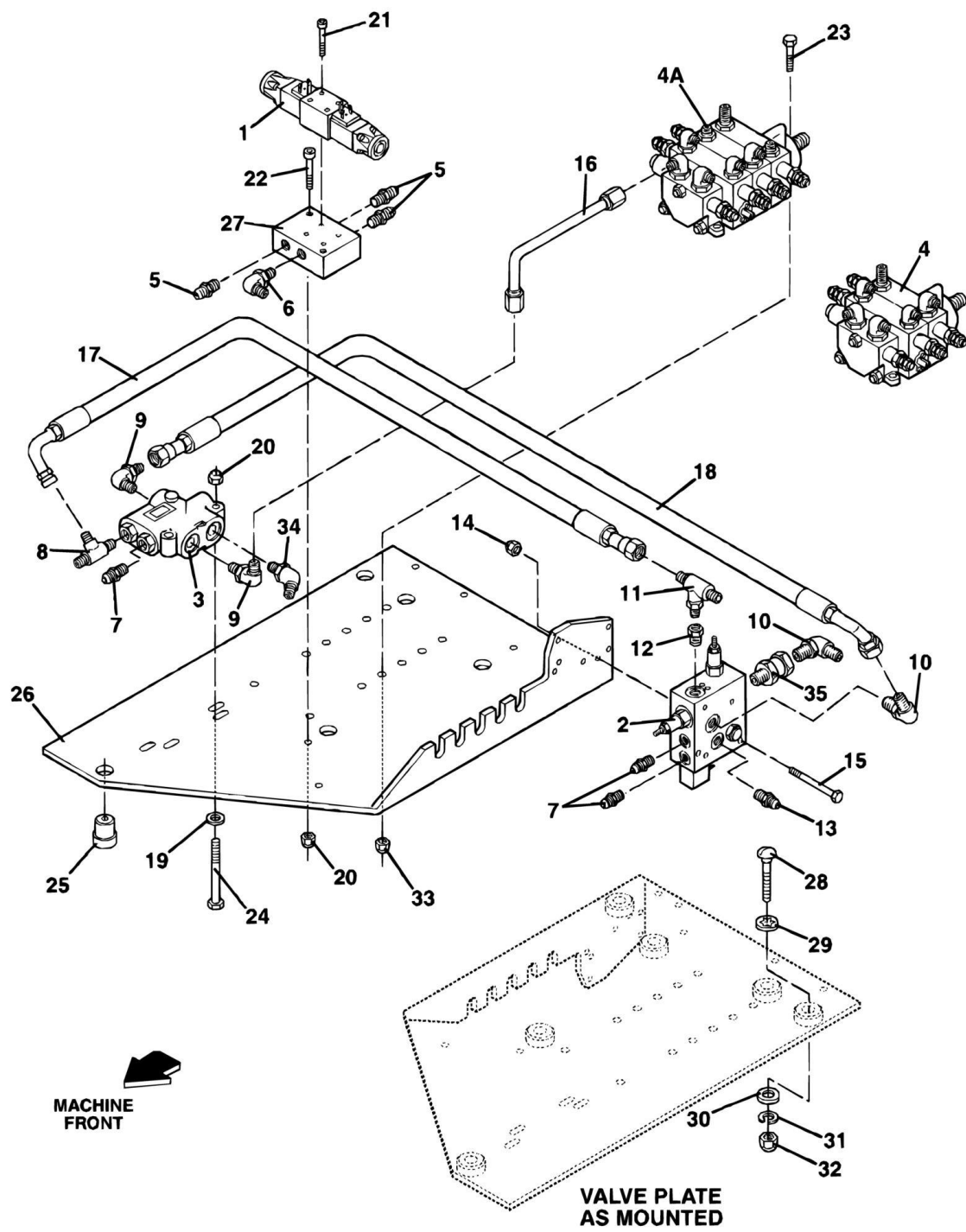
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-21. VALVE PLATE ASSEMBLY (SN 9B0500 through 0E1179)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902109	1	Valve, Steering Select	
2	8902657	1	Valve, Brake Manifold (OBSOLETE - Order service valve see "KITS" below to convert to declutch)	
3	8902227	1	Valve, Priority	
4	8902125	1	Valve, Secondary Control, 2 Section (OBSOLETE - Order Valve 8902151 with two 8760419 plugs in work ports)	
4A	8902151	1	Valve, Secondary Control, 3 Section	
5	8760110	3	Connector, Straight, SAE 6-8, male JIC 37 x male str. thd. O-ring	
6	8760313	1	Elbow, 90, SAE 6-8, male JIC 37 x male str. thd. O-ring	
7	8760113	2	Connector, Straight, SAE 4-4, male JIC 37 x male str. thd. O-ring	
8	8760534	1	Tee, Male Run, SAE 4-4, male JIC 37 x male str. thd. O-ring	
9	8760308	2	Elbow, 90, SAE 8-10, male JIC 37 x male str. thd. O-ring	
10	8760303	2	Elbow, 90, SAE 8-8, male JIC 37 x male str. thd. O-ring	
11	8760460	1	Reducer, SAE 8-6, male str. thd. o-ring x female internal O-ring boss	
12	8760136	1	Connector, Straight, SAE 4-6, Male JIC 37 x male str. thd. O-ring	
13	8760457	1	Tee, Male Branch, SAE 6-6, male JIC 37 x male str. thd. O-ring	
14	7088692	1	Tube Assembly (SN 9B0500 through 0A0996)	
14	7091592	1	Tube Assembly (SN 0A0997 through 0E1179)	
15	2712292	1	Hose Assembly	
16	6605182	1	Hose Assembly	
17	8303703	2	Screw, Hex Hd Cap, 1/4-20 x 2-1/2	
18	8307106	2	Washer, Flat, 5/16	
19	8305626	4	Locknut, 5/16-18	
20	8304631	4	Screw, Socket Hd Cap, #10-24 x 2	
21	8304608	2	Screw, Socket Hd Cap, 5/16-18 x 1-1/2	
22	8303675	3	Screw, Socket Hd Cap, 3/8-16 x 1-1/4	
23	8303757	2	Screw, Socket Hd Cap, 5/16-18 x 2-1/2	
24	8278008	4	Mount, Rubber	
25	7098293	1	Plate, Valve Mounting	
26	8902111	1	Body, Steer Select Valve	
27	8304042	4	Bolt, Carriage, 3/8-16 x 2	
28	8310070	4	Retainer, Bolt 3/8	
29	7057141	4	Washer,Rebound	
30	8307005	4	Lockwasher, 3/8	
31	8305008	4	Nut, Hex, 3/8-16	
32	8305645	3	Locknut, 3/8-16	
33	8305624	2	Locknut, 1/4-20	
34	8760307	1	Elbow, 45, SAE #8 - JIC #8	
		Ref	KITS	
35	7092552	1	Kit, Declutch Conversion (Refer to BRAKE CIRCUITS - W/2 WHEEL SERVICE BRAKES for kit parts)	

SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-22. VALVE PLATE ASSEMBLY (SN 0E1180 to Present)



PA1242

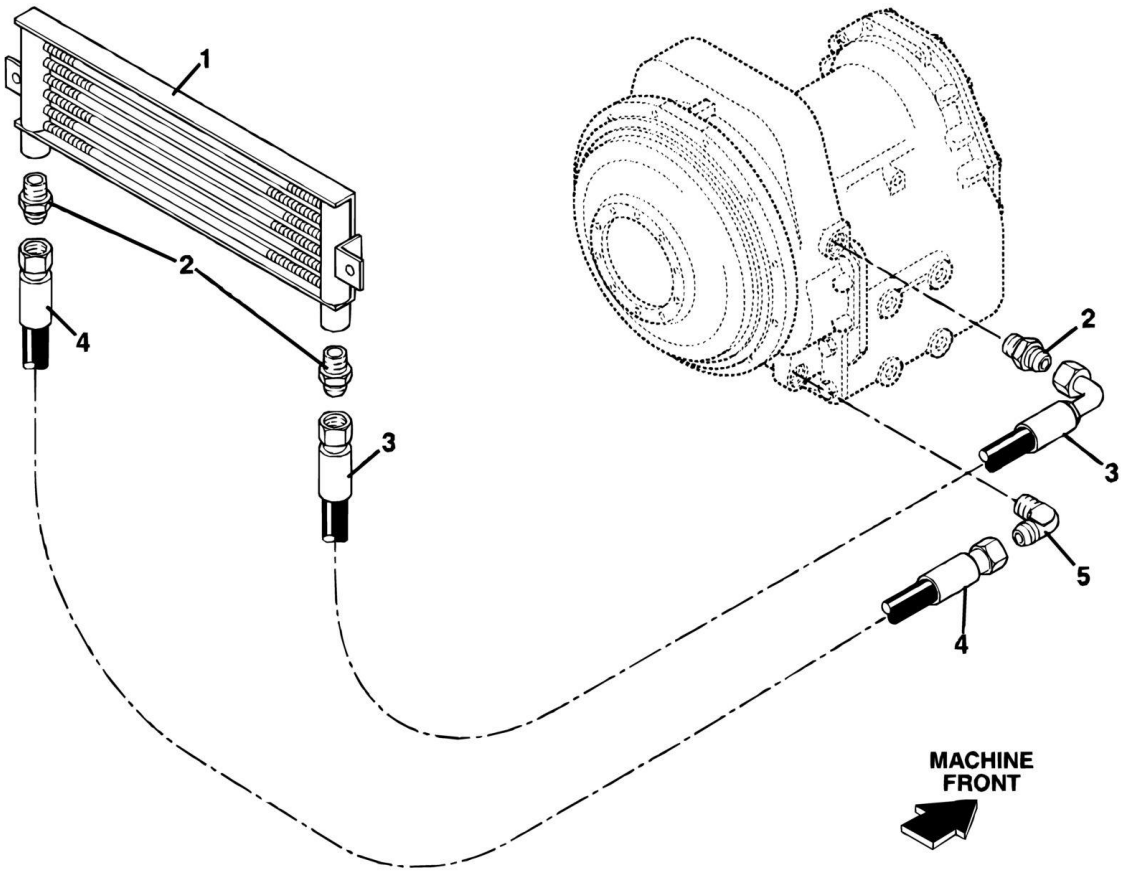
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-22. VALVE PLATE ASSEMBLY (SN 0E1180 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902109	1	Valve, Steering Select	
2	8902659	1	Valve, Brake Manifold	
3	8902227	1	Valve Priority	
4	8902125	1	Valve, Secondary Control, 2 Section (OBSOLETE - Order Valve 8902151 with two 8760419 plugs in work ports)	
5	8760110	3	Connector, Straight, SAE 6-8, male JIC 37 x male str. thd. O-ring	
6	8760313	1	Elbow, 90, SAE 6-8, male JIC 37 x male str. thd. O-ring	
7	8760113	3	Connector, Straight, SAE 4-4, male JIC 37 x male str. thd. O-ring	
8	8760534	1	Tee, Run, SAE 4-4, male JIC 37 x male str. thd. O-ring	
9	8760308	2	Elbow, 90, SAE 8-10, male JIC 37 x male str. thd. O-ring	
10	8760303	2	Elbow, 90, SAE 8-8, male JIC 37 x male str. thd. O-ring	
11	8760457	1	Tee, Male Branch, SAE 8-8, male JIC 37 x male str. thd. O-ring	
12	8760460	1	Reducer, SAE 8-6, male str. thd. o-ring x female internal O-ring boss	
13	8760136	1	Connector, Straight, SAE 4-6, Male JIC 37 x male str. thd. O-ring	
14	8305624	2	Locknut, 1/4-20	
15	8303728	2	Screw, Hex Hd Cap, 1/4-20 x 2-3/4	
16	7091592	1	Tube Assembly	
17	2712292	1	Hose Assembly	
18	6605182	1	Hose Assembly	
19	8307106	2	Washer, Flat, 5/16	
20	8305626	4	Locknut, 5/16-18	
21	8304631	4	Screw, Socket Hd Cap, #10-24 x 2	
22	8304608	2	Screw, Socket Hd Cap, 5/16-18 x 1-1/2	
23	8303675	3	Screw, Socket Hd Cap, 3/8-16 x 1-1/4	
24	8303757	2	Screw, Socket Hd Cap, 5/16-18 x 2-1/2	
25	8278008	4	Mount, Rubber	
26	7098293	1	Plate, Valve Mounting	
27	8902111	1	Body, Steer Select Valve	
28	8304042	4	Bolt, Carriage, 3/8-16 x 2	
29	8310070	4	Retainer, Bolt 3/8	
30	7057141	4	Washer,Rebound	
31	8307005	4	Lockwasher, 3/8	
32	8305008	4	Nut, Hex, 3/8-16	
33	8305645	3	Locknut, 3/8-16	
34	8760307	1	Elbow, 45, SAE 8-8, male JIC 37 x male str. thd. O-ring	
35	8520030	1	Filter, Inline Fitting (SN 5532 to Present)	

SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-23. TRANSMISSION COOLING CIRCUIT (Prior to SN 1526)



PA0524

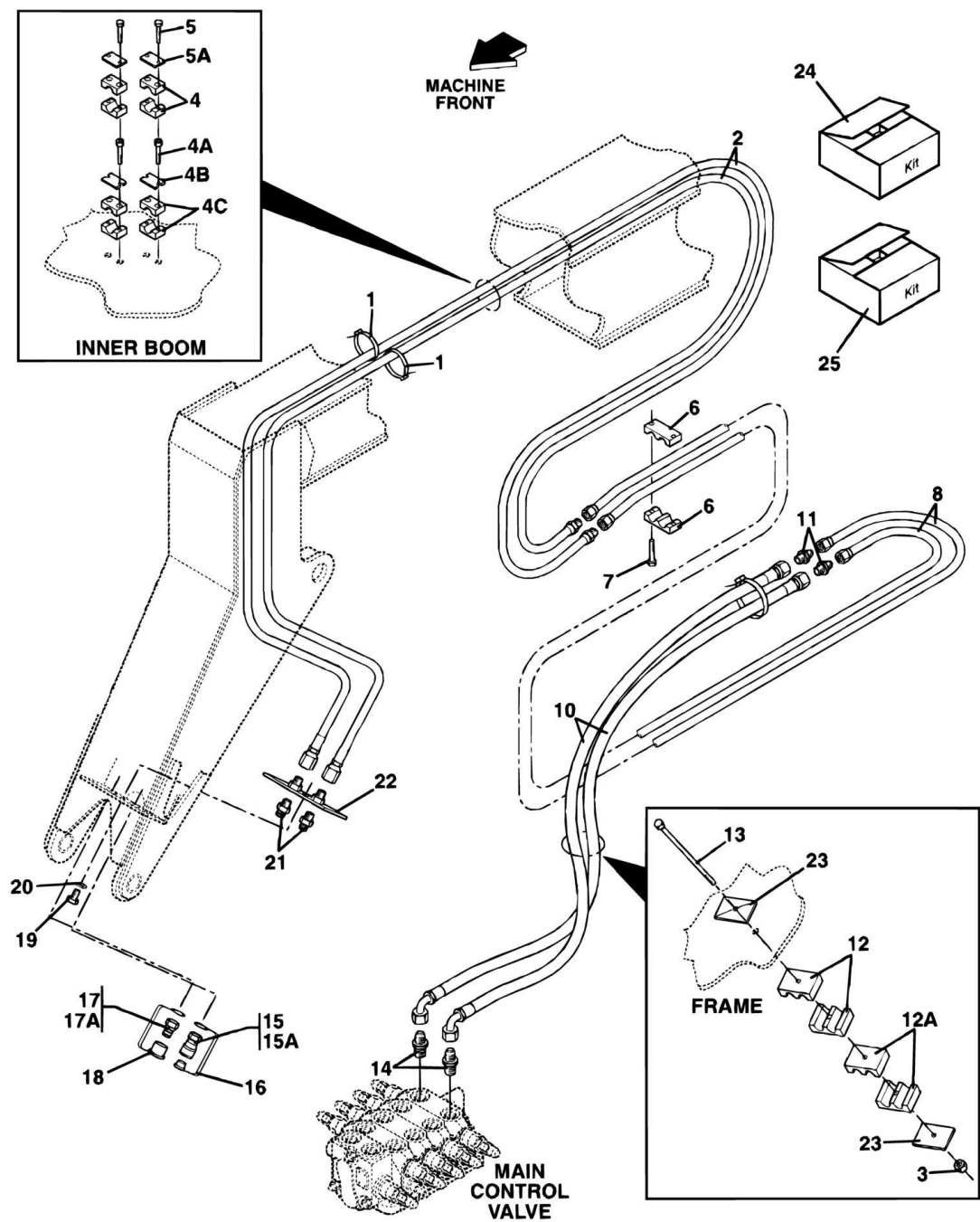
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-23. TRANSMISSION COOLING CIRCUIT (Prior to SN 1526)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	5715112	1	Oil Cooler	
2	8760109	3	Connector, Straight, SAE 12-12 - male JIC 37 x male str.thd. O-ring	
3	2712082	1	Hose Assembly, 60in	
4	2712102	1	Hose Assembly, 77in	
5	8760305	1	Elbow, 90, SAE 12-12 - male JIC 37 x male str. thd. O-ring	

SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-24. AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL (Prior to SN 9B0500)



PA0534

SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-24. AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL (Prior to SN 9B0500)

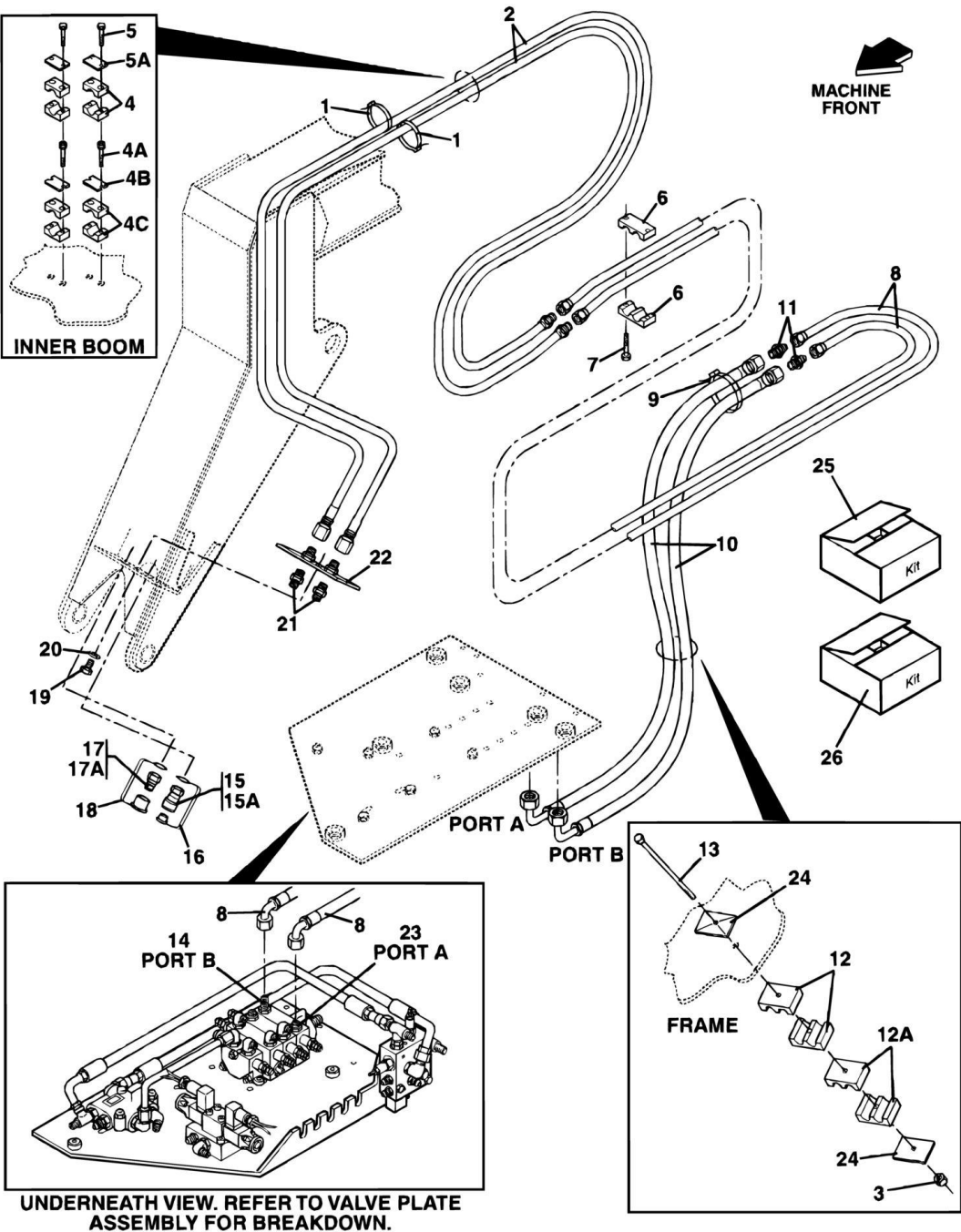
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8584007	2	Plastic Wrap	
2	2712172	2	Hose Assembly, 3/8 ID	
2	2712922	2	Hose Assembly, 1/2 ID (For use with Quick Coupler Kit)	
3	8305626	1	Locknut, 5/16-18 (Existing part shown on ATTACHMENT TILT, SLAVE AND FRAME TILT CIRCUITS)	
4	8769129	2	Clamp Set, Single (2 halves, 5/8 ID)	
4A	8769155	2	Bolt, Stacking	
4B	8769156	2	Plate, Stacking	
4C	8769129	2	Clamp Set, Single (2 halves, 5/8 ID) (Existing part shown on ATTACHMENT TILT, SLAVE AND FRAME TILT CIRCUITS)	
5	8303728	4	Screw, Hex Hd Cap, 1/4-20 x 2-3/4	
5A	8769146	2	Plate, Cover	
6	8769126	3	Clamp Set, Single (2 halves, 1/2 ID)	
7	8303690	2	Screw, Hex Hd Cap, 5/16-18 x 2	
8	7084683	2	Tube Assembly	
9	8584002	1	Tie Wrap	
10	2712582	2	Hose Assembly	
11	8760045	2	Union, Bulkhead, Straight, SAE 8 - male JIC 37deg	
12	8769139	1	Clamp Set, Single (2 halves, 3/4 ID) (Existing part shown on ATTACHMENT TILT, SLAVE AND FRAME TILT CIRCUITS)	
12A	8769139	1	Clamp Set, Single (2 halves, 3/4 ID)	
13	8310081	1	Screw, Hex Hd Cap, 5/16-18 x 5 (Existing part shown on ATTACHMENT TILT, SLAVE AND FRAME TILT CIRCUITS)	
14	8760143	1	Connector, Long, SAE 8-8 - male JIC 37deg x male str. thd. O-ring	
15	8420057	1	Quick Disconnect, Female 3/8 NPT (See also Item 15)	
15A	8640027	1	O-Ring, Viton - For High Temp. Application of item 15	
16	8420059	1	Plug, Dust, SAE 6	
17	8420056	1	Screw, Hex HD Cap, 3/8-16 x 1	
17A	8640027	1	O-Ring, Viton - For High Temp. Application of item 17	
18	8420058	1	Cap, Dust, SAE 6	
19	8303620	1	Screw, Hex Hd Cap, 3/8-16 x 1	
20	8307005	1	Lockwasher, 3/8	
21	8540001	2	Nipple, Hex, 3/8 NPT	
22	7085491	1	Plate, Junction	
23	8769128	2	Plate, Cover	
		Ref	KITS	
24	7096862	1	Kit, Quick Couplers	
24	8430005	1	Quick Disconnect, Female 3/4-16 ORB (Item 20, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
24	8420055	1	Plug, Dust, SAE 8 (Item 21, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
24	8430006	1	Quick Disconnect, Male 3/4-16 ORB (Item 22, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
24	8420053	1	Cap, Dust, SAE 8 (Item 23, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
24	8760142	2	Connector, Swivel Nut, SAE 8-8 (Item 24, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
24	8760045	2	Union, Bulkhead, Straight, SAE 8 - male JIC 37deg (Item 25, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
24	5713331	4	Washer, Flat (Used on forks with 0.938 dia. mtg. holes) (Item 26, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
25	7097662	1	Kit, Inner Boom (For auxiliary hydraulic retrofit)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
25	8303743	4	Screw, Hex Hd Cap, 1/4-20 x 1-1/2 (Item 5, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
25	8769153	2	Plate, Cover (Item 6, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
25	8769154	2	Clamp Set, Single (2 halves, 3/4 ID) (Item 7, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
25	8769155	4	Bolt, Stacking (Item 8, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
25	8769156	2	Plate, Stacking (Item 9, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
25	7097644	1	Inner Boom (Item 1, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	

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FIGURE 5-25. AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL (SN 9B0500 through 1316)



PA1033

SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-25. AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL (SN 9B0500 through 1316)

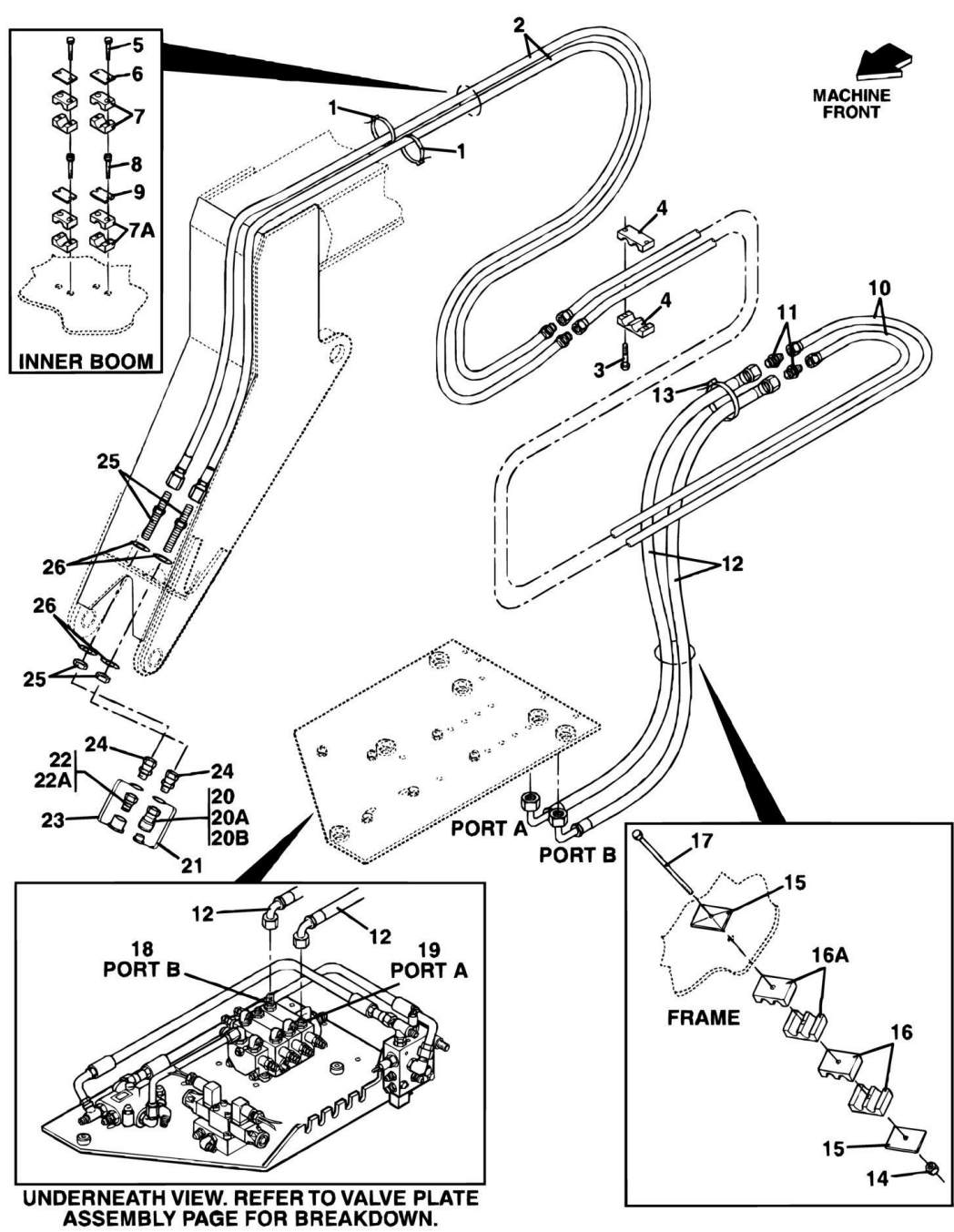
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8584007	2	Plastic Wrap	
2	2712172	2	Hose Assembly, 3/8 ID	
2	2712922	2	Hose Assembly, 1/2 ID (For use with Quick Coupler Kit)	
3	8305626	1	Locknut, 5/16-18 (Existing part shown on ATTACHMENT TILT, SLAVE AND FRAME TILT CIRCUITS)	
4	8769129	2	Clamp Set, Single (2 halves, 5/8 ID)	
4	7097491	4	Clamp Half, 3/4 ID (For interim use with 1/2 ID hose)	
4A	8769155	2	Bolt, Stacking	
4B	8769156	2	Plate, Stacking	
4C	8769129	2	Clamp Set, Single (2 halves, 5/8 ID) (Existing part shown on ATTACHMENT TILT, SLAVE AND FRAME TILT CIRCUITS)	
5	8303728	4	Screw, Hex Hd Cap, 1/4-10 x 2-3/4	
5A	8769146	2	Plate, Cover	
6	8769126	3	Clamp Set, Single (2 halves, 1/2 ID)	
7	8303690	2	Scrw, Hex Hd Cap, 5/16-18 x 2	
8	7084683	2	Tube Assembly	
9	8584002	1	Tie Wrap	
10	2712582	2	Hose Assembly	
11	8760045	2	Union, Bulkhead, Straight, SAE 8 - male JIC 37	
12	8769139	1	Clamp Set, Single (2 halves, 3/4 ID) (Existing part shown on ATTACHMENT TILT, SLAVE AND FRAME TILT CIRCUITS)	
12A	8769139	1	Clamp Set, Single (2 halves, 3/4 ID)	
13	8310081	1	Screw, Hex Hd Cap, 5/16-18 x 5 (Existing part shown on ATTACHMENT TILT, SLAVE AND FRAME TILT CIRCUITS)	
14	8760143	1	Connector, Long, SAE 8-8 - male JIC 37 x male str. thd O-ring	
15	8420057	1	Quick Disconnect, Female 3/8 NPT (See also item 15A)	
15A	8640027	1	O-Ring, Viton - For high temperature Application of Item 15	
16	8420059	1	Plug, Dust, SAE 6	
17	8420056	1	Quick Disconnect, Male 3/8 NPT (See also item 17A)	
18	8420058	1	Cap, Dust, SAE 6	
19	8303620	1	Screw, Hex Hd Cap, 3/8-16 x 1	
20	8307005	1	Lockwasher 3/8	
21	8540001	2	Nipple, Hex, 3/8 NPT	
22	7085491	1	Plate, Junction	
23	8760107	1	Connector, SAE #8 - JIC #8	
24	8769128	2	Plate, Cover	
		Ref	KITS	
25	7096862	1	Kits, Quick Couplers	
25	8430005	1	Quick Disconnect, Female 3/4-16 ORB (Item 20, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
25	8420055	1	Plug, Dust, SAE 8 (Item 21, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
25	8430006	1	Quick Disconnect, Male 3/4-16 ORB (Item 22, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
25	8420053	1	Cap, Dust, SAE 8 (Item 23, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
25	8760142	2	Connector, Swivel Nut, SAE 8-8 (Item 24, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
25	8760045	2	Union, Bulkhead, Straight, SAE 8 - male JIC 37 (Item 25, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
25	5713331	4	Washer, Flat (Used on forks with 0.983 dia mtg. holes) (Item 26, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
26	7097662	1	Kit, Inner Boom (For auxiliary hydraulic retrofit)	
26	8303743	4	Screw, Hex Hd Cap, 1/4-10 x 1-1/2 (Item 5, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
26	8769153	2	Plate, Cover (Item 6, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
26	8769154	2	Clamp Set, Single (2 halves, 3/4 ID) (Item 7, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
26	8769155	4	Bolt, Stacking (Item 8, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
26	8769156	2	Plate, Stacking (Item 9, See AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL)	
26	7097644	1	Inner Boom (Item 1, See BOOM AND ATTACHMENTS SECTION)	

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FIGURE 5-26. AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL (SN 1317 to Present)



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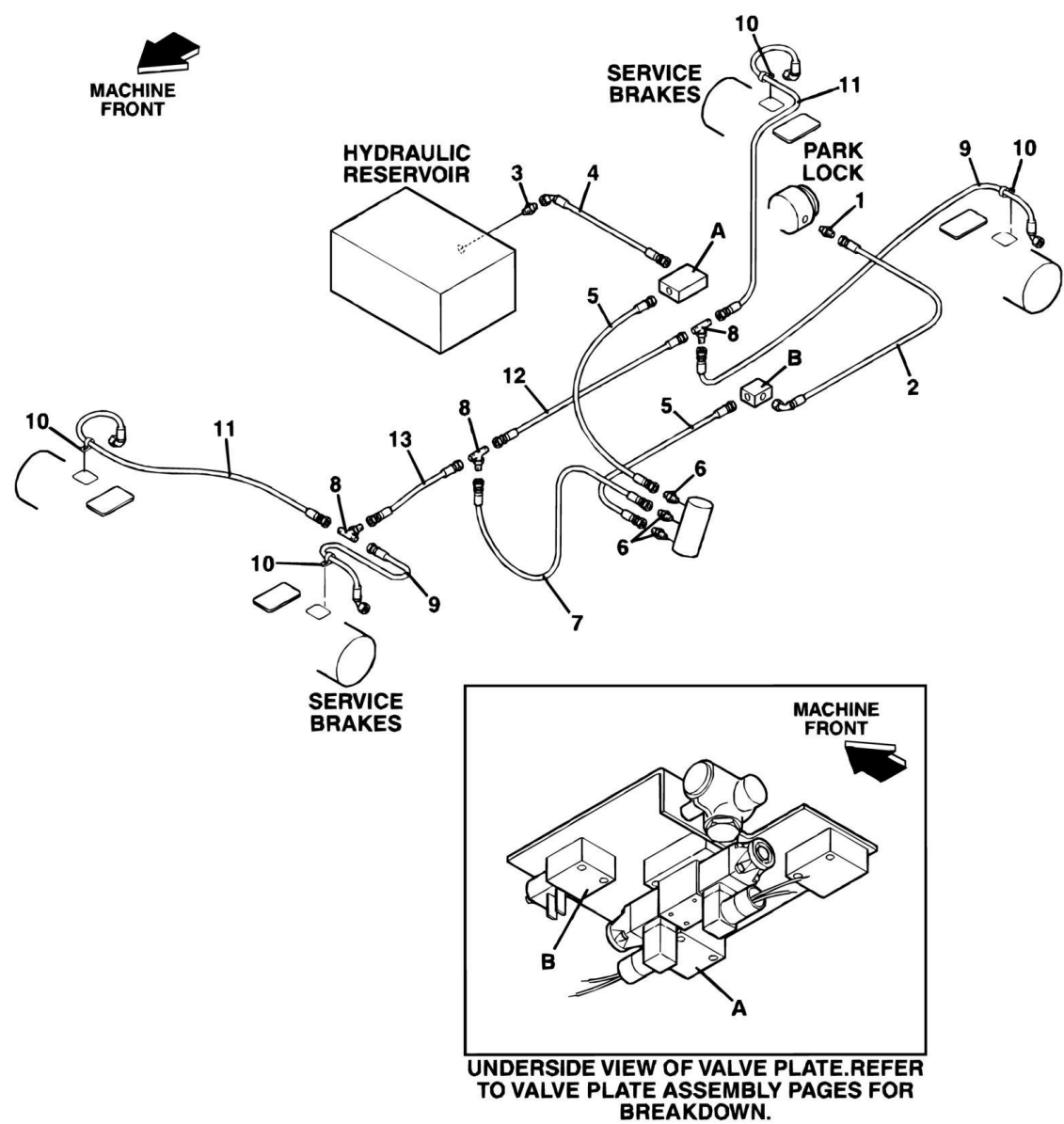
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-26. AUXILIARY HYDRAULIC CIRCUIT - OPTIONAL (SN 1317 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8585145	2	Plastic Tape, 3/4 x 12	
2	2712922	2	Hose Assembly	
3	8303786	2	Screw, Hex Hd Cap, 5/16-18 x 2-1/4	
4	8769126	3	Clamp Set, Single (2 halves, 1/2 ID)	
5	8303743	4	Screw, Hex Hd Cap, 1/4-20 x 1-1/2 (Existing part shown on ATTACHMENT TILT, SLAVE & FRAME TILT CIRCUITS)	
6	8769153	2	Plate, Cover (Existing part shown on ATTACHMENT TILT, SLAVE & FRAME TILT CIRCUITS)	
7	8769152	2	Clamp Set, Single (2 halves, 3/4 ID) (Existing part shown on ATTACHMENT TILT, SLAVE & FRAME TILT CIRCUITS)	
7A	8769152	2	Clamp Set, Single (2 halves, 3/4 ID)	
8	8769155	4	Bolt, Stacking	
9	8769156	2	Plate, Stacking	
10	7084683	2	Tube Assembly	
11	8760045	2	Union, Bulkhead, Straight, SAE 8 - male JIC 37	
12	2712582	2	Hose Assembly	
13	8584002	1	Tie Wrap	
14	8305626	1	Locknut, 5/16-18	
15	8769128	2	Plate, Cover	
16	8769139	1	Clamp Set, Single (2 halves, 3/4 ID)	
16A	8769139	1	Clamp Set, Single (2 halves, 3/4 ID)	
17	8310081	1	Screw, Hex Hd Cap, 5/16-18 x 5	
18	8760143	1	Connector, Long, SAE 8-8 - male JIC 37 x male str. thd. O-ring	
19	8760107	1	Connector, SAE #8 - JIC #8	
20	8430005	1	Quick Disconnect, Female 3/4-16 ORB (Includes Items 20A & 20B)	
20A	8640029	1	Seal, Nose (Not Shown)	
20B	8640028	1	Seal, Coupler Body (Not Shown)	
21	8420055	1	Plug, Dust, SAE 8	
22	8430006	1	Quick Disconnect, Male 3/4-16 ORB (Includes Item 22A)	
22A	8420029	1	Seal, Nose (Not shown)	
23	8420053	1	Cap, Dust, SAE 8	
24	8760142	2	Connector, Swivel Nut, SAE 8-8	
25	8760045	2	Union, Bulkhead, Straight, SAE 8 - male JIC 37	
26	5713331	4	Washer, Flat (Part of Retrofit Quick Coupler Kit 7096862 - Not used on original installations)	

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FIGURE 5-27. BRAKE CIRCUITS - W/4 WHEEL SERVICE BRAKES (Prior to SN 9B0500)



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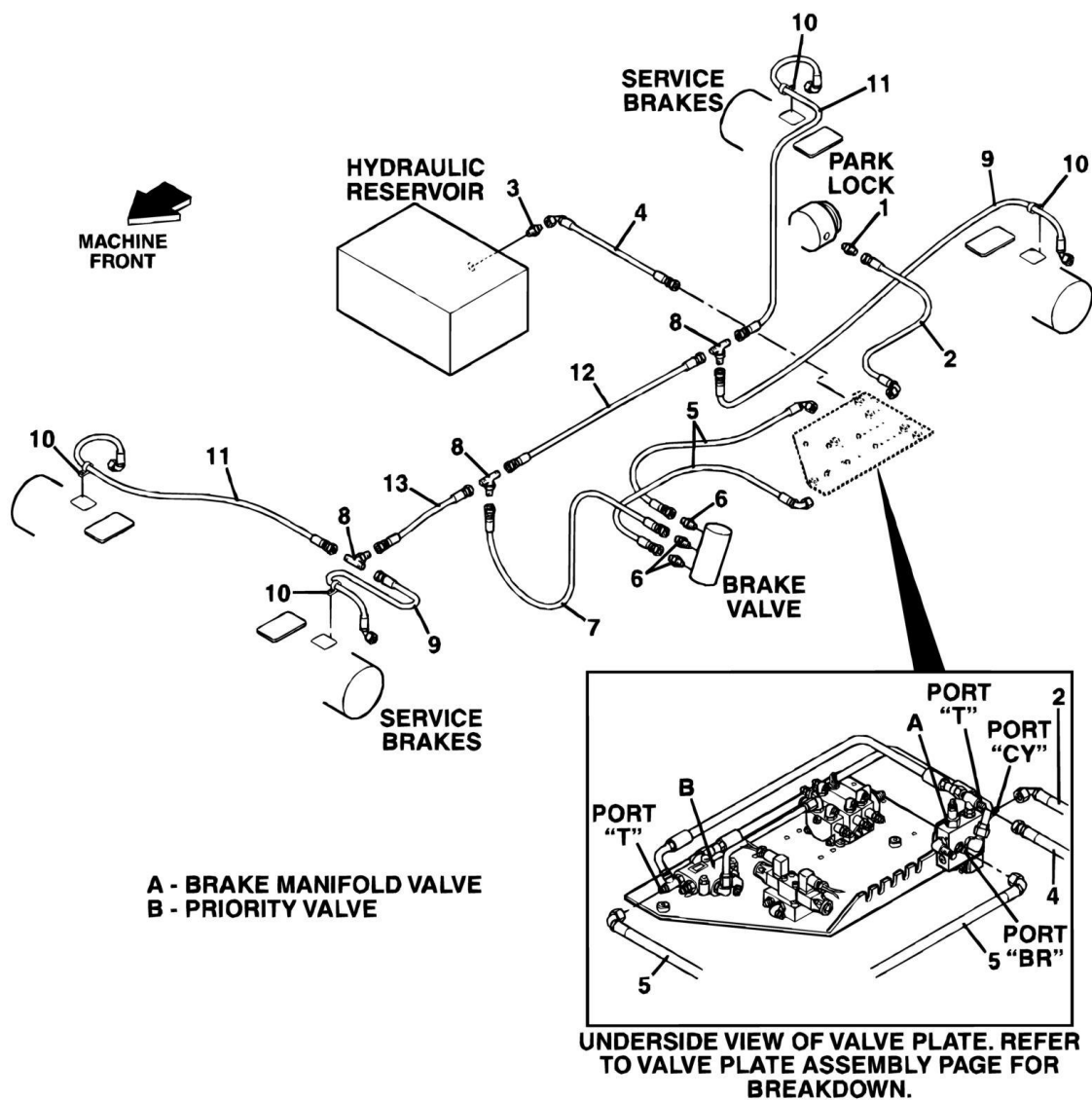
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-27. BRAKE CIRCUITS - W/4 WHEEL SERVICE BRAKES (Prior to SN 9B0500)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8760113	1	Connector, Straight, SAE 4-8, male JIC 37 x male str. thd. O-ring	
2	2712052	1	Hose Assembly, Park Lock Release	
3	8760036	1	Connector, Straight, SAE 6-8P, male JIC 37 x male NPT	
4	2712072	1	Hose Assembly, Pressure Reducing Valve to Tank	
5	2712042	2	Hose Assembly, Brake Valve	
6	8760110	3	Connector, Straight, SAE 6-8, male JIC 37 x male str. thd. O-ring	
7	2710672	1	Hose Assembly	
8	8760455	3	Tee, Branch, Bulkhead, SAE 6-6, male JIC 37 x male JIC 37	
9	2712092	2	Hose Assembly, Left Front and Rear Service Brake	
10	8406105	4	Clamp, 3/4 ID	
11	2712022	2	Hose Assembly, Right Front and Rear Service Brake	
12	2711972	1	Hose Assembly	
13	2711492	1	Hose Assembly	

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FIGURE 5-28. BRAKE CIRCUITS - W/4 WHEEL SERVICE BRAKES (Prior to SN 9B0500)



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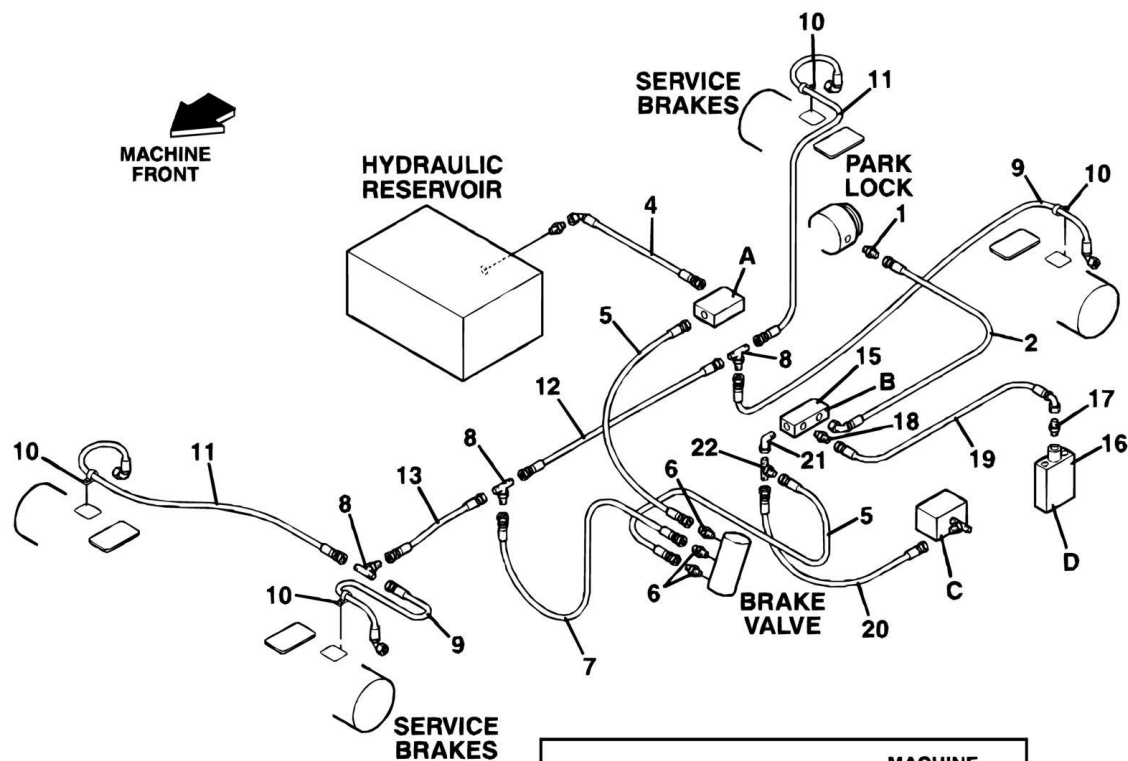
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-28. BRAKE CIRCUITS - W/4 WHEEL SERVICE BRAKES (Prior to SN 9B0500)

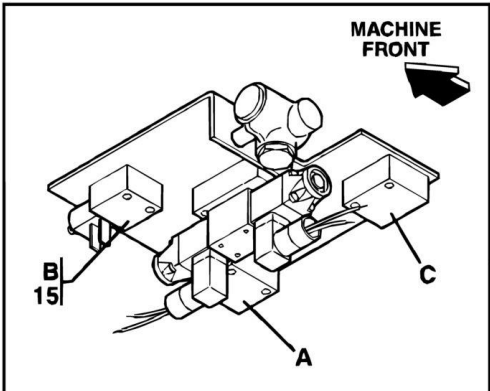
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8760113	1	Connector, Straight, SAE 4-8, male JIC 37 x male str. thd. O-ring	
2	6605152	1	Hose Assembly, Park Lock	
3	8760036	1	Connector, Straight, SAE 6-8P, male JIC 37 x male NPT	
4	2712072	1	Hose Assembly, Brake Manifold Valve to Tank	
5	2712332	2	Hose Assembly, Brake Drain	
6	8760110	3	Connector, Straight, SAE 6-8, male JIC 37 x male str. thd. O-ring	
7	2710672	1	Hose Assembly, Brake Outlet	
8	8760455	3	Tee, Branch, Bulkhead, SAE 6-6, male JIC 37 x male JIC 37	
9	2712092	2	Hose Assembly, Left Front and Rear Service Brake	
10	8406105	4	Clamp, 3/4 ID	
11	2712022	2	Hose Assembly, Right Front and Rear Service Brake	
12	2711972	1	Hose Assembly	
13	2711492	1	Hose Assembly	

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FIGURE 5-29. BRAKE CIRCUITS - W/4 WHEEL SERVICE BRAKES (W/DECLUTCH CONVERSION INSTALLED) (Prior to SN 9B0500)



- A - PRESSURE REDUCING VALVE
- B - PARK LOCK RELEASE VALVE
- C - SEQUENCE VALVE
- D - TRANSMISSION CONTROL VALVE



UNDERSIDE VIEW OF VALVE PLATE. REFER TO VALVE PLATE ASSEMBLY FOR BREAKDOWN.

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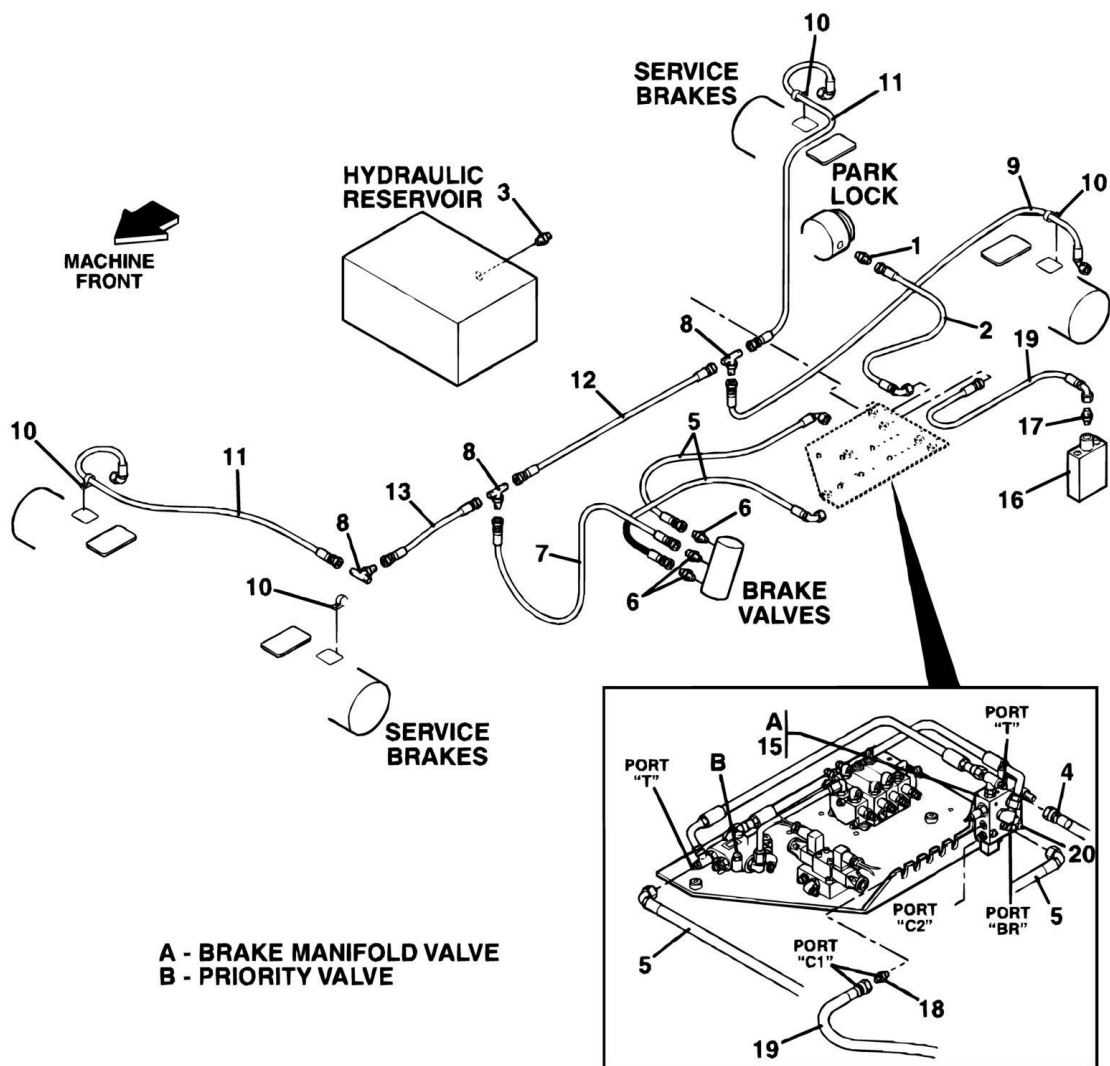
SECTION 5 - HYDRAULIC CIRCUITS

**FIGURE 5-29. BRAKE CIRCUITS - W/4 WHEEL SERVICE BRAKES (W/DECLUTCH CONVERSION
INSTALLED) (Prior to SN 9B0500)**

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8760113	1	Connector, Straight, SAE 4-8, male JIC 37 x male str. thd. O-ring	
2	2712052	1	Hose Assembly, Park Lock Release	
3	8760036	1	Connector, Straight, SAE 6-8P, male JIC 37 x male NPT	
4	2712072	1	Hose Assembly, Brake Manifold Valve to Tank	
5	2712042	2	Hose Assembly, Brake Valve	
6	8760110	3	Connector, Straight, SAE 6-8, male JIC 37 x male str. thd. O-ring	
7	2710672	1	Hose Assembly, Brake Outlet	
8	8760455	3	Tee, Branch, Bulkhead, SAE 6-6, male JIC 37 x male JIC 37	
9	2712092	2	Hose Assembly, Left Front and Rear Service Brake	
10	8406105	4	Clamp, 3/4 ID	
11	2712022	2	Hose Assembly, Right Front and Rear Service Brake	
12	2711972	1	Hose Assembly	
13	2711492	1	Hose Assembly	
14	7093242	1	Kit, Transmission Declutch Conversion (Includes items 15 thru 21)	
15	8902134	1	Valve Assembly	
16	8841314	1	Declutch Cylinder Assembly	
17	8760011	1	Connector, Straight, SAE 4-2P, Male JIC 37 x male NPT	
18	8760010	1	Connector, Straight, SAE 4-4P, Male JIC 37 x male NPT	
19	2712052	1	Hose Assembly, Brake Valve to Declutch Cylinder	
20	6605652	1	Hose Assembly, Brake Valve to Sequence Valve	
21	8540214	1	Elbow, Street, 90 x 1/4 NPT	
22	8760432	1	Tee, Male Branch, SAE 8-6P - male JIC 37 x male NPT	

SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-30. BRAKE CIRCUITS - W/4 WHEEL SERVICE BRAKES (SN 9B08500 through 0E1179, SN 0E1180 to Present)



UNDERSIDE VIEW OF VALVE PLATE. REFER TO VALVE PLATE ASSEMBLY PAGE FOR BREAKDOWN.

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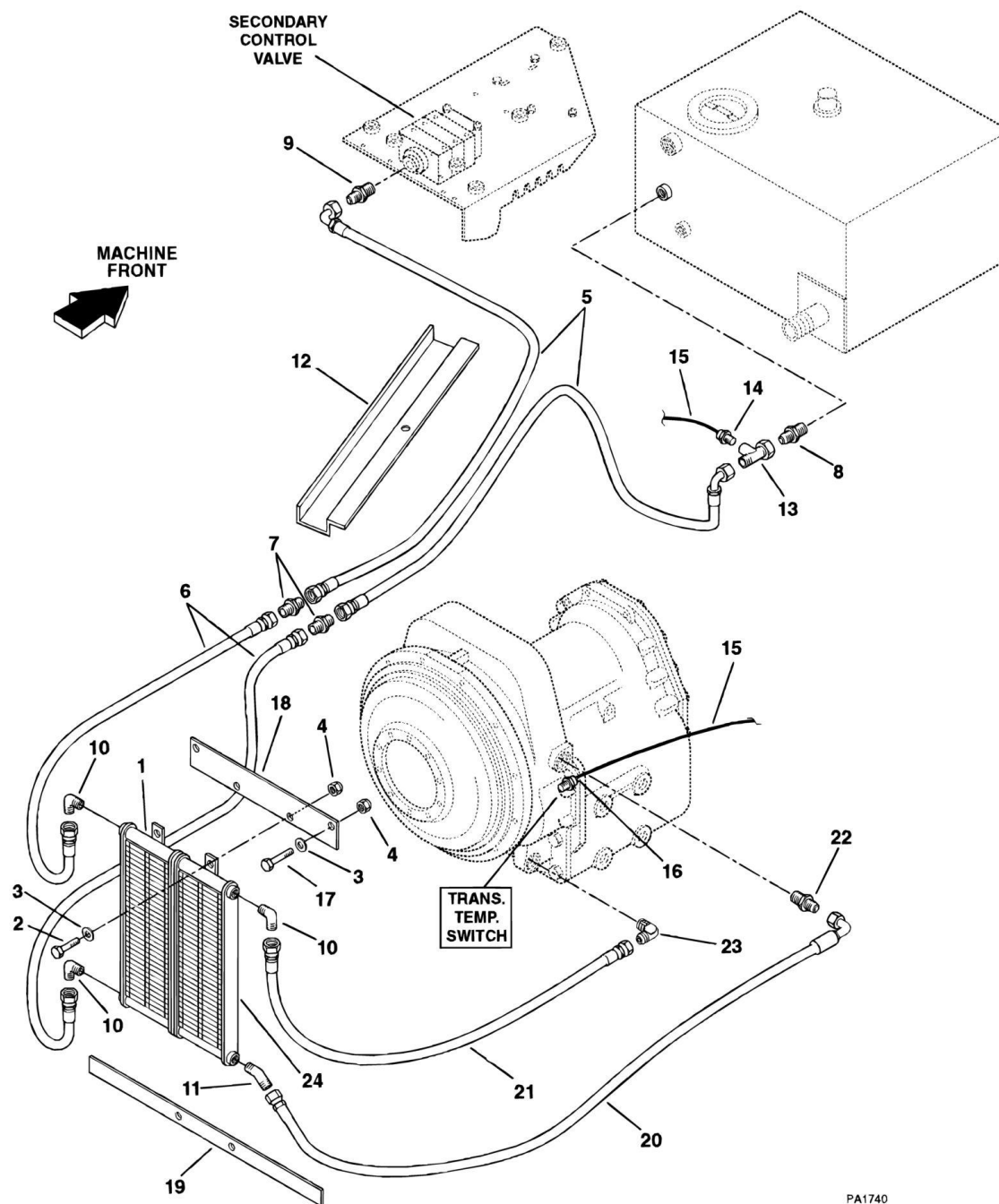
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-30. BRAKE CIRCUITS - W/4 WHEEL SERVICE BRAKES (SN 9B08500 through 0E1179, SN 0E1180 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8760113	1	Connector, Straight, SAE 4-8, male JIC 37 x male str. thd. O-ring	
2	6605152	1	Hose Assembly, Park Lock	
3	8760036	1	Connector, Straight, SAE 6-8P, male JIC 37 x male NPT	
4	2712072	1	Hose Assembly, Brake Manifold Valve to Tank	
5	2712332	2	Hose Assembly, Brake Drain	
6	8760110	3	Connector, Straight, SAE 6-8, male JIC 37 x male str. thd. O-ring	
7	2710672	1	Hose Assembly, Brake Outlet	
8	8760455	3	Tee, Branch, Bulkhead, SAE 6-6, male JIC 37 x male JIC 37	
9	2712092	2	Hose Assembly, Left Front and Rear Service Brake	
10	8406105	4	Clamp, 3/4 ID	
11	2712022	2	Hose Assembly, Right Front and Rear Service Brake	
12	2711972	1	Hose Assembly	
13	2711492	1	Hose Assembly	
14	7092552	1	Kit, Transmission Declutch Conversion (Includes Items 15 thru 21)	
15	8902659	1	Valve Assembly	
16	8841314	1	Declutch Cylinder Assembly	
17	8760011	1	Connector, Straight, SAE 4-2P, Male JIC 37 x male NPT	
18	8760113	1	Connector, Straight, SAE 4-8, male JIC 37 x male str. thd. O-ring	
19	2712052	1	Hose Assembly, Brake Valve to Declutch Cylinder	
20	8303728	2	Screw, Hex Hd Cap, 1/4-20 x 2-3/4	

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FIGURE 5-31. HYDRAULIC OIL COOLING CIRCUIT - OPTIONAL (Prior to SN 1526)



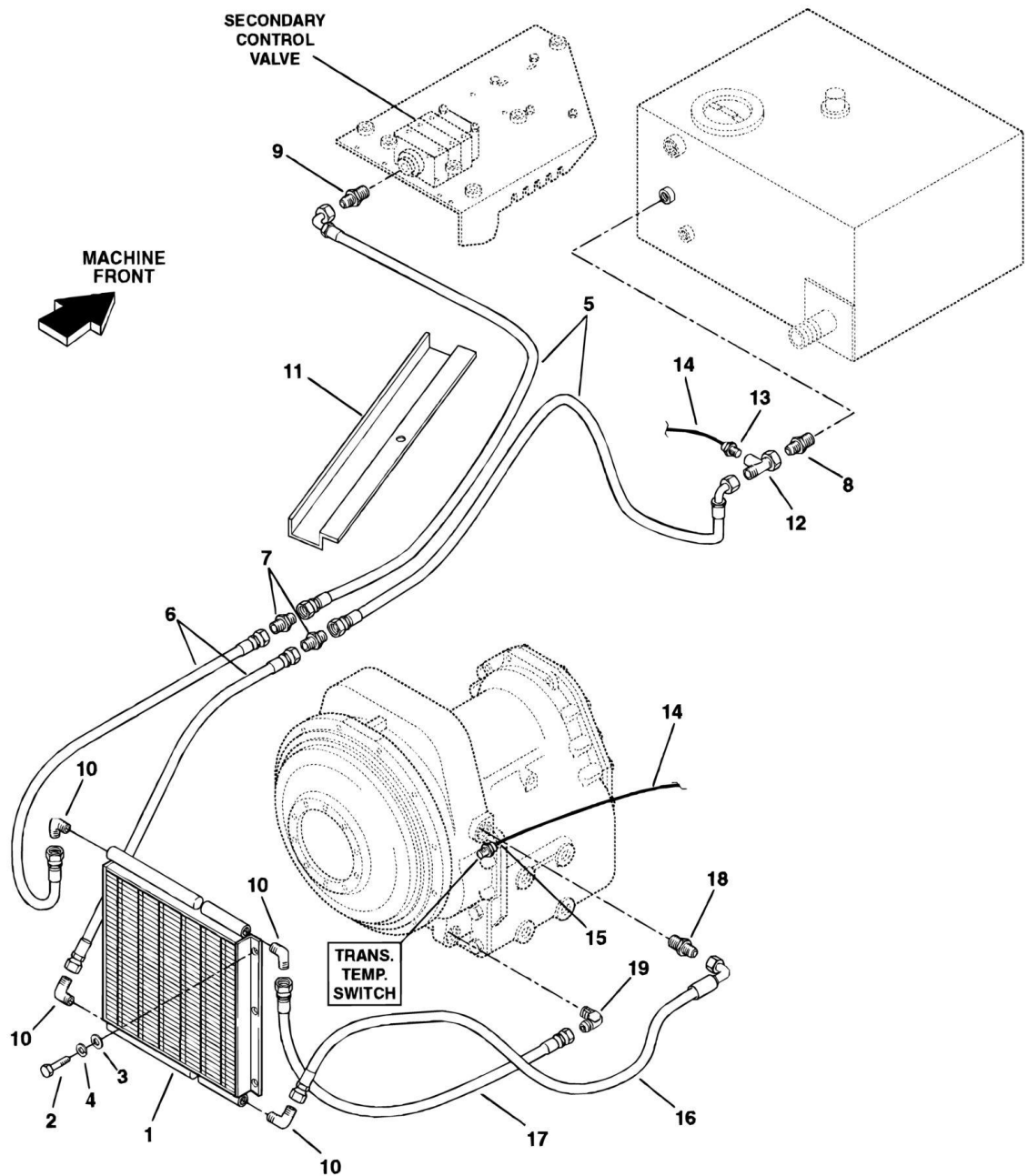
SECTION 5 - HYDRAULIC CIRCUITS

FIGURE 5-31. HYDRAULIC OIL COOLING CIRCUIT - OPTIONAL (Prior to SN 1526)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	5715112	1	Oil Cooler	
2	8303620	4	Screw, Hex Hd Cap, 3/8-16 x 1	
3	8307204	4	Washer, Flat, 3/8	
4	8305645	6	Locknut, 3/8-16 ESNA	
5	2712082	2	Hose Assembly, 60in	
6	6604902	2	Hose Assembly, 105in	
7	8760008	2	Union, SAE 12 - male JIC 37	
8	8760109	1	Connector, Straight, SAE 12-12 - male JIC 37x male str. thd. O-ring (Used on newer reservoirs with straight fitting)	
8	8760020	1	Connector, Straight, SAE 12-8P - male JIC 37x male NPT (Used on older reservoirs with tapered pipe fitting)	
9	8760112	1	Connector, Straight, SAE 12-10 - male JIC 37x male str. thd. O-ring	
10	8760305	3	Elbow, 90, SAE 12-12 - male JIC 37x male str. thd. O-ring	
11	8760317	1	Elbow, 45, SAE 12-12 - male JIC 37 x male str. thd. O-ring	
12	7097811	1	Support, Hose	
13	7098271	1	Tee, Swivel Run, SAE 12 male with SAE 8 female port	
14	8223217	1	Switch, Temperature, SAE 8 NPT, 210	
15	7098281	1	Wire Assembly, 80in	
16	8220060	1	Adapter, Blade Terminal	
17	8303675	2	Screw, Hex Hd Cap, 3/8-16 x 1-1/4	
18	7097751	1	Support, Upper Cooler	
19	7097761	1	Support, Lower Cooler	
		Ref	NOTE: The following parts are used on the hydraulic oil cooling circuit, See TRANSMISSION COOLING CIRCUIT and are shown for reference.	
20	2712082	1	Hose Assembly, 60in	
21	2712102	1	Hose Assembly, 77in	
22	8760109	3	Connector, Straight, SAE 12-12 - male JIC 37x male str. thd. O-ring	
23	8760305	1	Elbow, 90, SAE 12-12 - male JIC 37x male str. thd. O-ring	
24	5715112	1	Oil Cooler	

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FIGURE 5-32. HYDRAULIC AND TRANSMISSION OIL COOLING CIRCUITS - OPTIONAL (SN 1526 to Present)



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SECTION 5 - HYDRAULIC CIRCUITS

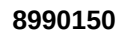
FIGURE 5-32. HYDRAULIC AND TRANSMISSION OIL COOLING CIRCUITS - OPTIONAL (SN 1526 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	2713054	1	Oil Cooler	
2	8303744	6	Screw, Hex Hd Cap, 5/16-18 x 1/2	
3	8307106	6	Washer, Flat, 5/16	
4	8307004	6	Lockwasher, 5/16	
5	2712082	2	Hose Assembly, 60in	
6	6604902	2	Hose Assembly, 105in	
7	8760008	2	Union, SAE 12 - male JIC 37	
8	8760109	1	Connector, Straight, SAE 12-12 - male JIC 37 x male str. thd. O-ring (Used on newer reservoirs with straight fitting)	
8	8760020	1	Connector, Straight, SAE 12-8P - male JIC 37 x male NPT (Used on older reservoirs with tapered pipe fitting)	
9	8760112	1	Connector, Straight, SAE 12-10 - male JIC 37 x male str. thd. O-ring	
10	8760305	4	Elbow, 90, SAE 12-12 - male JIC 37 x male str. thd. O-ring	
11	7097811	1	Support, Hose	
12	7098271	1	Tee, Swivel Run, SAE 12 male with SAE 8 female port	
13	8223217	1	Switch, Temperature, SAE 8 NPT, 210	
14	7098281	1	Wire Assembly, 80in	
15	8220060	1	Adapter, Blade Terminal	
		Ref	NOTE: The following parts are used on the hydraulic oil cooling circuit, See TRANSMISSION COOLING CIRCUIT and are shown for reference.	
16	2712082	1	Hose Assembly, 60in	
17	2712102	1	Hose Assembly, 77in	
18	8760109	3	Connector, Straight, SAE 12-12 - male JIC 37 x male str. thd. O-ring	
19	8760305	1	Elbow, 90, SAE 12-12 - male JIC 37 x male str. thd. O-ring	

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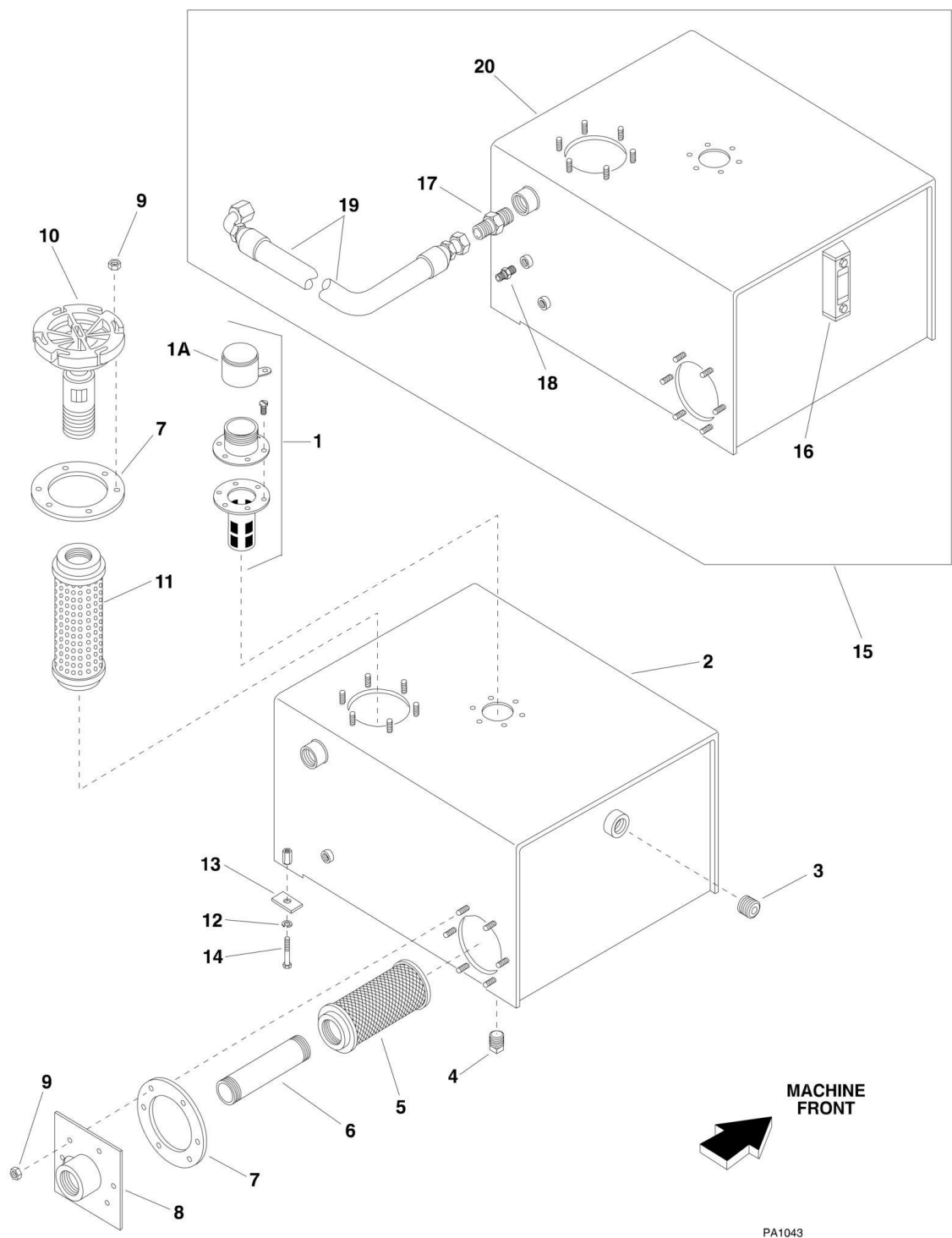
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-1. HYDRAULIC RESERVOIR (Prior to SN 9b0499)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8322022	1	Filler/Breather (Includes Item 1A)	
1A	8322029	1	Cap, Filler/Breather	
2	See Note	1	Reservoir, Hydraulic	
3	8464009	1	Gauge, Sight	
4	8541437	1	Plug, Pipe, Square, 3/4	
5	8324014	1	Strainer	
6	8551811	1	Nipple, 2.00 x 8-1/2	
7	7082901	2	Gasket	
8	7081002	1	Flange Assembly	
9	8305006	6	Locknut, 5/16-18	
10	8307004	2	Washer, Lock, 5/16	
11	8769128	2	Plate, Cover	
12	8303715	2	Screw, Hex Hd Cap, 5/16-18 x 1-1/2, grade 5	
		Ref	NOTE: Original reservoir is no longer available as a service part. Order conversion kit below.	
13	7093262	1	Kit, Hydraulic Tank Conversion (Includes the following new parts)	
14	8464012	1	Gauge, Sight	
15	8760005	1	Connector, Straight, SAE 16-16P, male JIC 37 x male NPT	
16	8541409	1	Plug, Pipe, Sq. Hd., 1/2in NPT	
17	2711902	1	Hose Assembly	
18	8320265	1	Element	
19	8320256	1	Cover Assembly	
20	7082901	1	Gasket	
21	8305626	6	Locknut, 5/16-18	
22	7093194	1	Tank Weldment	

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FIGURE 6-2. HYDRAULIC RESERVOIR (SN 9b0500 through 1316)



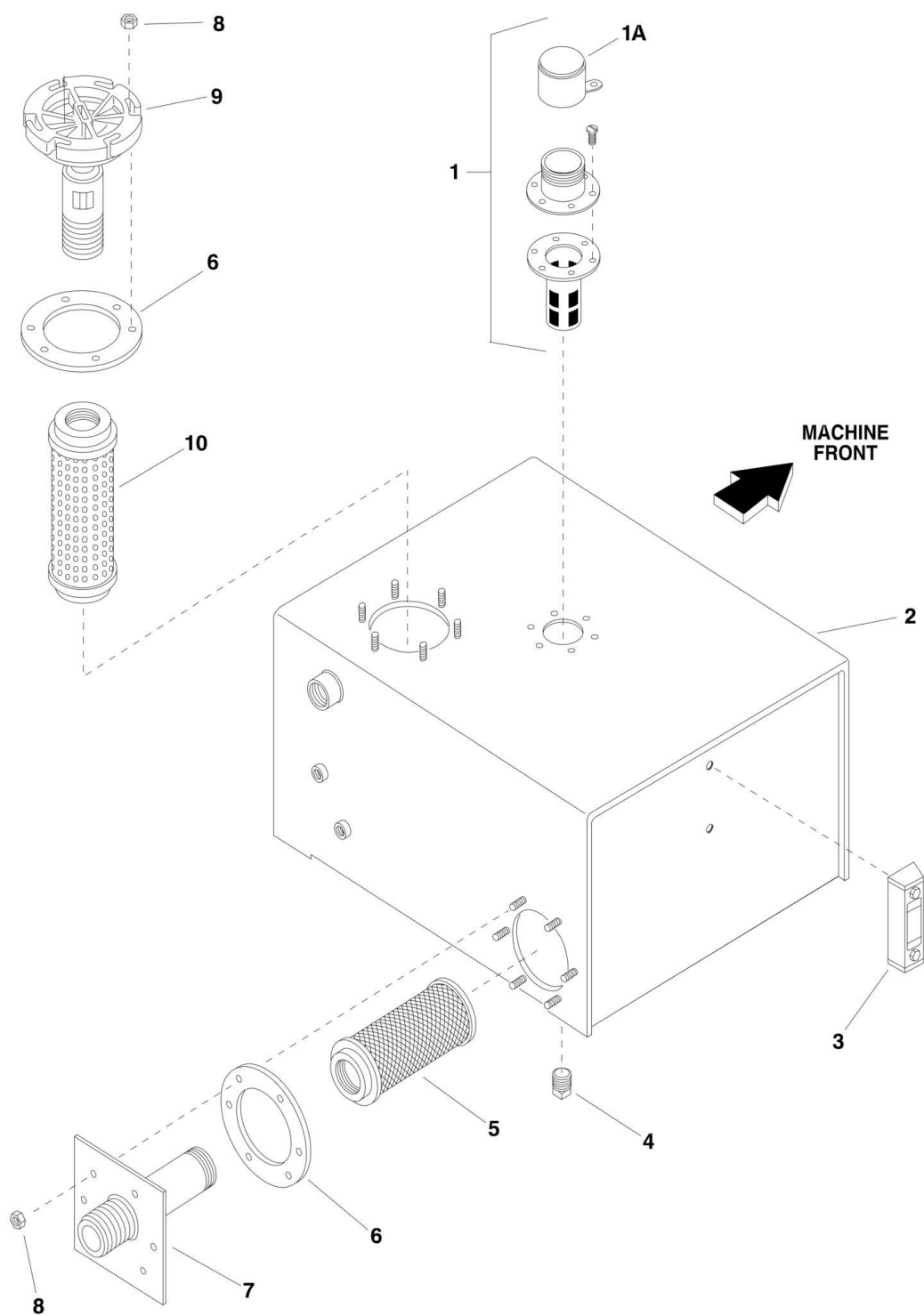
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-2. HYDRAULIC RESERVOIR (SN 9b0500 through 1316)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8322022	1	Filler/Breather (Includes Item 1A)	
1A	8322029	1	Cap, Filler/Breather	
2	See Note	1	Reservoir, Hydraulic	
3	8464009	1	Gauge, Sight	
4	8541437	1	Plug, Pipe, Square Hd, 3/4	
5	8324014	1	Strainer	
6	8551811	1	Nipple, 2.00 x 8-1/2	
7	7082901	2	Gasket	
8	7088802	1	Flange Assembly	
9	8305626	12	Locknut, 5/16-18	
10	8320256	1	Cover Assembly, w/By-Pass	
11	8320265	1	Element	
12	8307004	2	Washer, Lock, 5/16	
13	8769128	2	Plate, Cover	
14	8303715	2	Screw, Hex Hd Cap, 5/16-18 x 1-1/2, grade 5	
		Ref	NOTE: Original reservoir is no longer available as a service part. Order conversion kit below.	
15	7093272	1	Kit, Hydraulic Tank Conversion (Includes the following new parts)	
16	8464012	1	Gauge, Sight	
17	8760005	1	Connector, Straight, SAE 16-16P, male JIC 37 x male NPT	
18	8760015	1	Connector, Straight, SAE 8-8P, male JIC 37 x male NPT	
19	2711902	1	Hose Assembly	
20	7093194	1	Tank Weldment	

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FIGURE 6-3. HYDRAULIC RESERVOIR (SN 1317 to Present)



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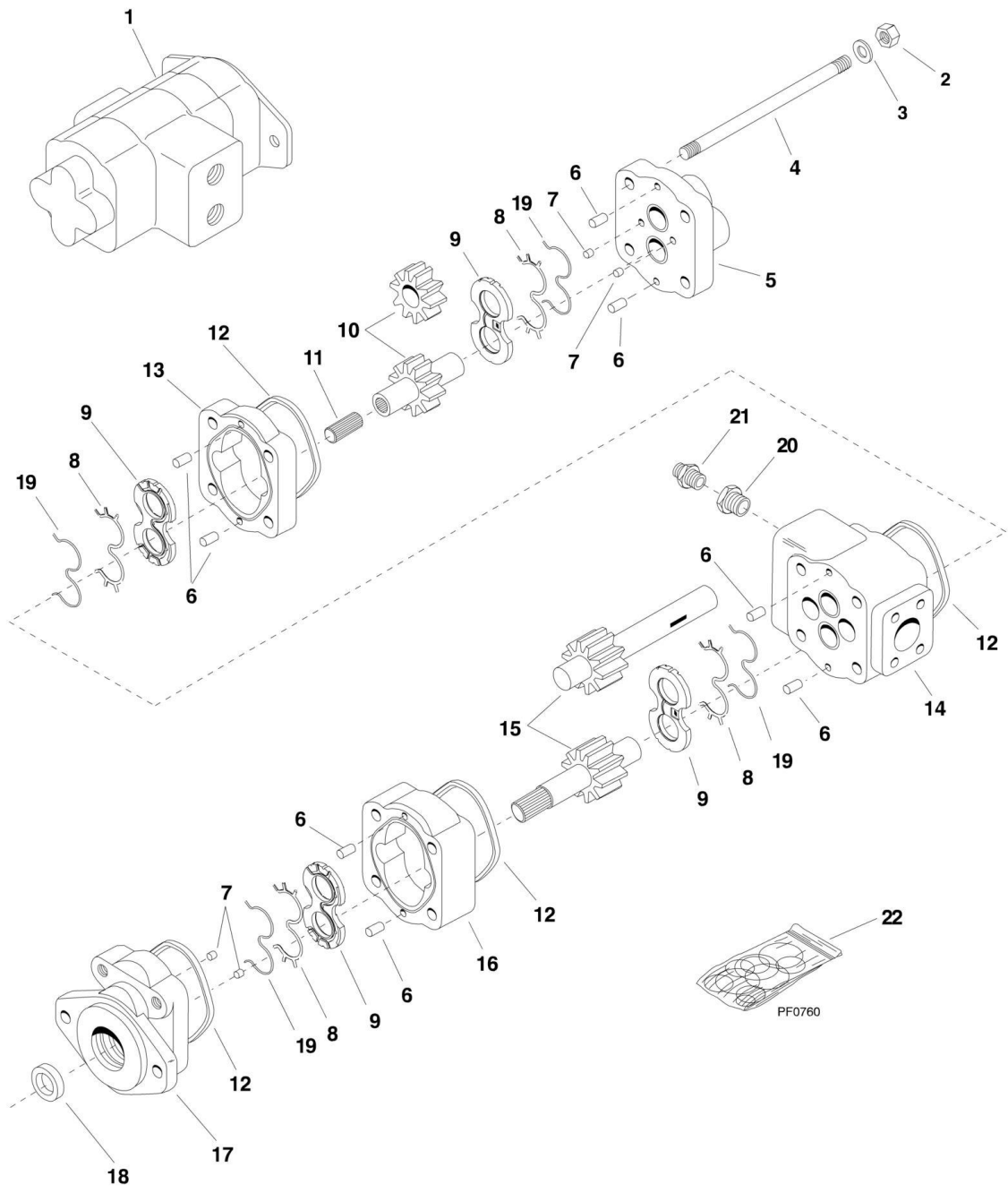
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-3. HYDRAULIC RESERVOIR (SN 1317 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8322022	1	Filler/Breather (Includes Item 1A)	
1A	8322029	1	Cap, Filler/Breather	
2	7093154	1	Reservoir, Hydraulic	
3	8464012	1	Gauge, Sight (Includes mtg. hardware and seal)	
4	8541437	1	Plug, Pipe, Square Hd, 3/4	
5	8324029	1	Strainer	
6	7082901	2	Gasket	
7	7092652	1	Flange Assembly	
8	8305626	12	Locknut, 5/16-18	
9	8320256	1	Cover Assembly, w/By-Pass	
10	8320265	1	Element	

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FIGURE 6-4. MAIN TANDEM PUMP



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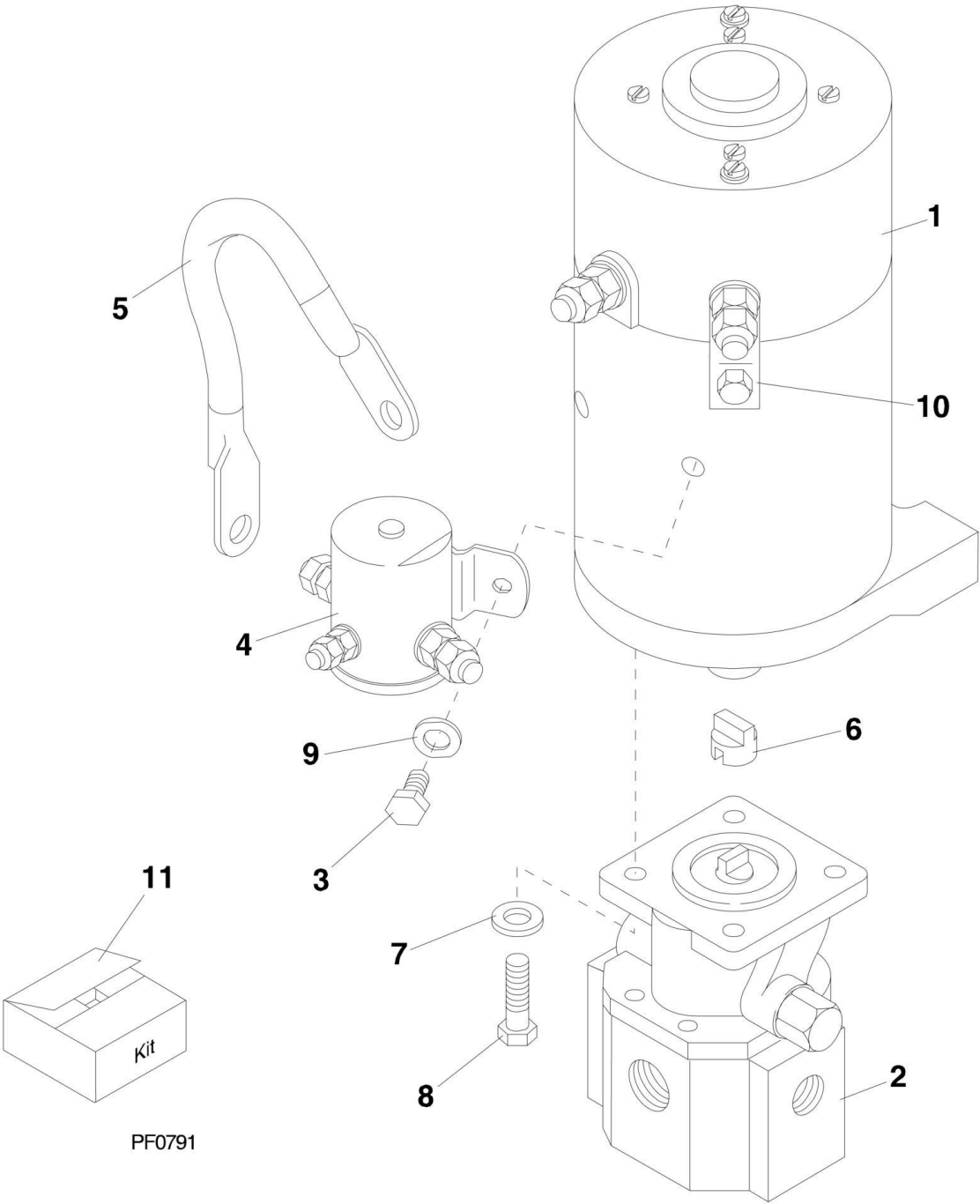
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-4. MAIN TANDEM PUMP

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7090801	1	Pump Assembly, Hydraulic (Includes Items 2 thru 20) (Prior to SN 9B0500)	
1	8440211	1	Pump Assembly, Hydraulic (Includes Items 2 thru 18) (Including 9B0500 to Present)	
2	8032804	4	Nut, Hex	
3	8032802	4	Washer	
4	8032803	4	Stud	
5	8032796	1	Housing, PEC	
6	8032810	8	Pin, Dowel	
7	8032806	4	Plug	
8	See Kits	4	Seal, Channel	
9	8032807	4	Plate, Thrust	
10	8032801	1	Gear Set	
11	8032813	1	Shaft, Connecting	
12	See Kits	4	Seal, Sq-R	
13	8032799	1	Housing, Gear	
14	NLA	NLA	Housing, Bearing Carrier (No Longer Available. Order P/N 8032999 and Items 19 & 20) (Prior to SN 9B0500)	
14	8032999	1	Housing, Bearing Carrier (Including 9B0500 to Present)	
15	8032800	1	Gear Shaft Set	
16	8032797	1	Housing, Gear	
17	8032795	1	Housing, SEC	
18	See Kits	1	Seal, Lip	
19	See Kits	4	Seal, Back-Up	
20	8760545	1	Reducer, SAE 16-8 - male str thd O-ring x female internal O-ring boss	
		Ref	KITS	
21	8760107	1	Connector, Straight, SAE 8-8 - male JIC 37x male str thd O-ring	
22	8032811	1	Seal Kit, Hydraulic Pump (Consists of Items 8,12,18 & 19)	

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FIGURE 6-5. STEERING AND EMERGENCY BRAKE PUMP (Prior to SN 7P0014)



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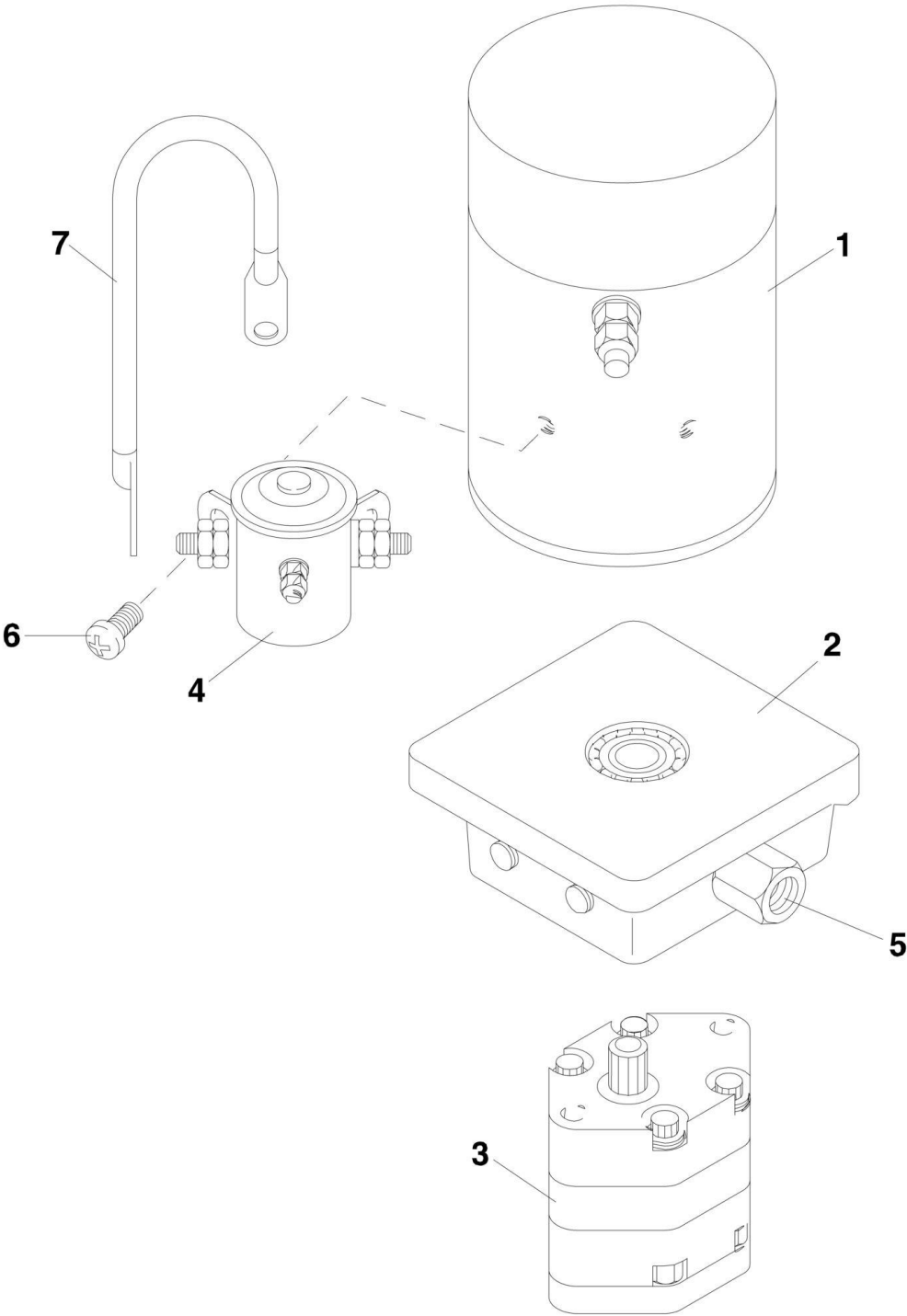
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-5. STEERING AND EMERGENCY BRAKE PUMP (Prior to SN 7P0014)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	See Kits	1	Pump and Motor Assembly (Includes Items 1 thru 10)	
1	See Kits	1	Motor	
2	See Kits	1	Pump	
3	8032916	2	Screw	
4	8032888	1	Solenoid	
5	8032915	1	Cable, Terminal	
6	8033229	1	Coupling	
7	8033230	4	Washer	
8	8033231	4	Screw	
9	8033232	2	Washer	
10	8033233	1	Strap, Ground	
		Ref	KITS	
11	7095741	1	Pump and Motor Assembly Kit	

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FIGURE 6-6. STEERING AND EMERGENCY BRAKE PUMP (SN 7P0014 through 9B0499)



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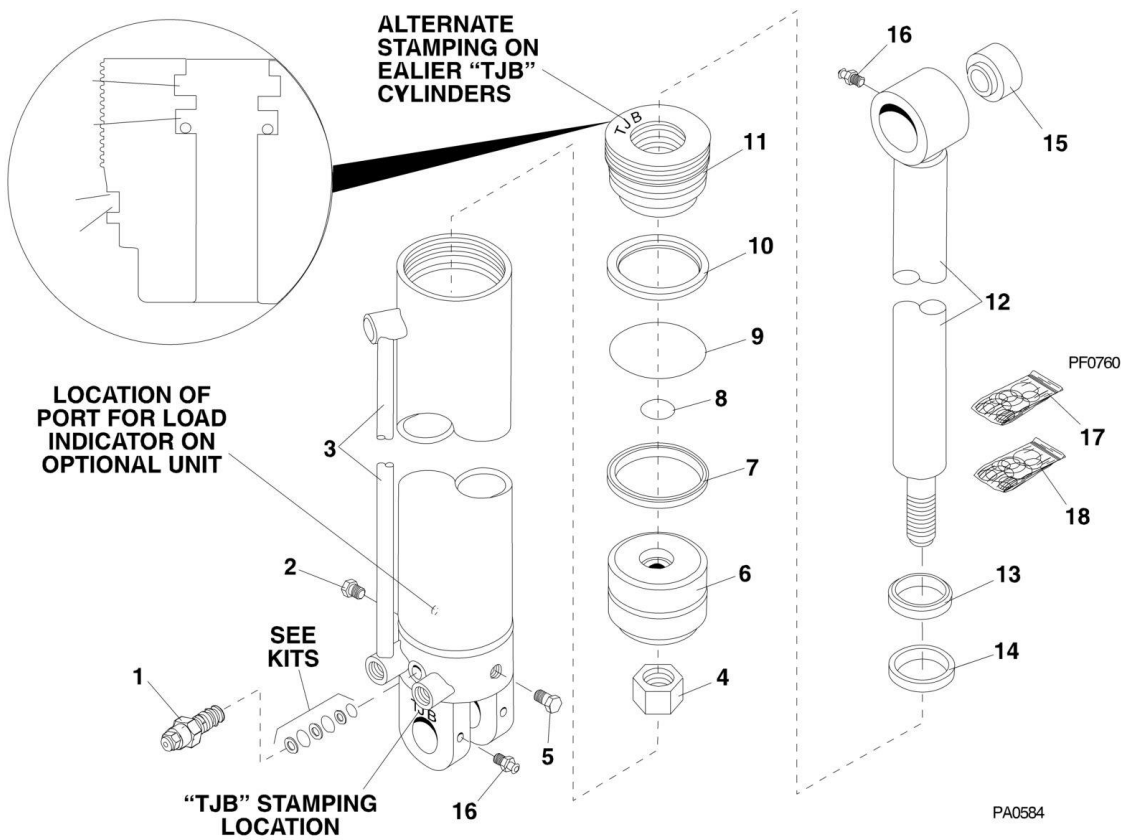
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-6. STEERING AND EMERGENCY BRAKE PUMP (SN 7P0014 through 9B0499)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8440147	1	Pump and Motor Assembly (Includes Items 1 thru 7)	
1	8033180	1	Motor	
2	8033186	1	End Head Assembly	
3	8033181	1	Pump	
4	8033182	1	Solenoid	
5	8033184	1	Valve, Check	
6	8033187	2	Screw, Taptite, 1/4-20 x 1/4 (Torx)	
7	8033185	1	Cable, Terminal	

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FIGURE 6-7. BOOM HOIST CYLINDER



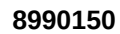
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FIGURE 6-7. BOOM HOIST CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7129252	2	Cylinder, Boom Hoist - TJB (Includes Items 1 thru 15)	
	2713793	2	Cylinder, Boom Hoist - TJB (Optional, Ported for Load Indicator) (Includes Items 1 thru 15)	
1	8902247	1	Valve, Counterbalance (For 7129252)	
2	8032712	1	Plug	
3	N.S.S.	1	Tube, Cylinder (For 7129252)	
3	N.S.S.	1	Tube, Cylinder (For 2713793)	
4	8032714	1	Nut	
5	8032715	1	Plug	
6	8032716	1	Piston	
7	See Kits	1	Seal, Piston	
8	See Kits	1	O-Ring	
9	See Kits	1	O-Ring	
10	See Kits	1	Ring, Backup	
11	8032717	1	Gland	
12	8032719	1	Rod	
13	See Kits	1	Wiper	
14	See Kits	1	Seal, Rod	
15	8065640	1	Bushing	
16	80520013	2	Fitting, Grease, 1/8 NPT	
		Ref	KITS	
17	8032718	1	Seal Kit, Boom Hoist Cylinder (Includes Items 7, 8, 9, 10, 13 & 14)	
18	8205656	1	Seal Kit, Counterbalance Valve (Includes 3 O-Rings & 3 Backup Rings)	
		Ref	Important: Before ordering internal service parts, you must first identify the cylinder by the manufacturer's stamping (see illustrations). The BHE cylinders are no longer available as individual complete assemblies. You must replace individual BHE cylinders.	

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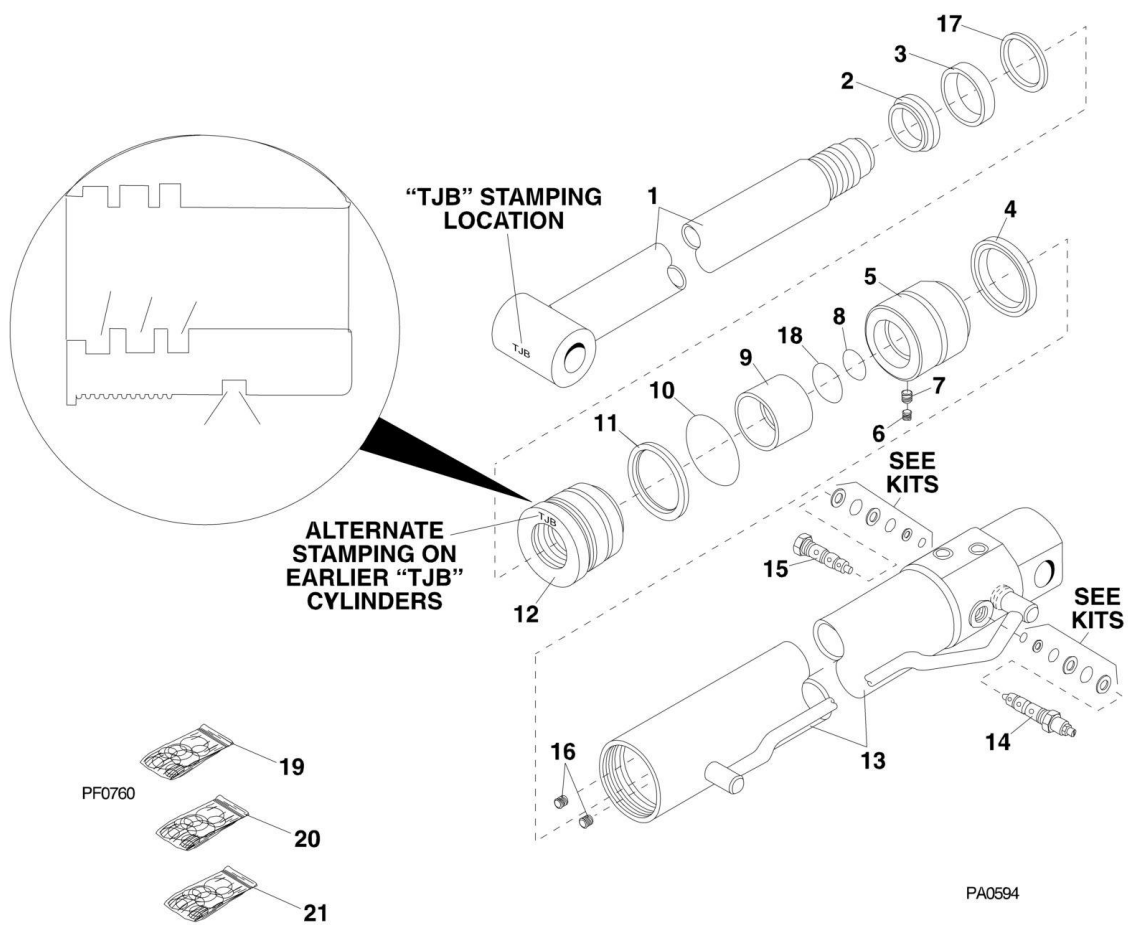
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-8. BOOM HOIST CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2711543	2	Cylinder, Boom Hoist - BHE (Includes Items 1 thru 25)	
1	8033143	1	Screw, Hex Hd Cap	
2	N.S.S.	1	Barrel	
3	8033153	1	Plug, Sealing	
4	8033145	1	Plug, Sealing	
5	See Kits	1	O-RING	
6	8033131	1	Plug	
7	8902843	1	Cartridge Valve, Counterbalance (Includes Items 8 thru 12)	
8	See Kits	1	O-RING	
9	See Kits	1	Ring, Backup	
10	See Kits	1	O-RING	
11	See Kits	2	Ring, Backup	
12	See Kits	1	O-RING	
13	8033140	1	Piston	
14	See Kits	1	Bearing	
15	See Kits	1	Seal and Expander Assemby	
16	See Kits	2	Ring, Backup	
17	See Kits	1	O-RING	
18	See Kits	1	O-RING	
19	See Kits	1	Wiper	
20	See Kits	1	Seal	
21	See Kits	1	O-RING	
22	8033134	1	Head	
23	See Kits	1	Ring, Backup	
24	8033132	1	Rod	
25	8065640	1	Bushing	
26	8520013	1	Fitting, Grease, 1/8 NPT	
		Ref	KITS	
27	8205668	1	Seal Kit, Boom Hoist Cylinder (Includes Items 5, 8, thru 12, 14 thru 21 & 23)	
28	8033425	1	Seal Kit, Counterbalance Valve (Includes Items 8 thru 12)	
		Ref	Important: Before ordering internal service parts, you must first identify the cylinder by the manufacturer's stamping (see illustrations). The BHE cylinders are no longer available as individual complete assemblies. You must replace individual BHE cylinders	

SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-9. BOOM EXTEND CYLINDER



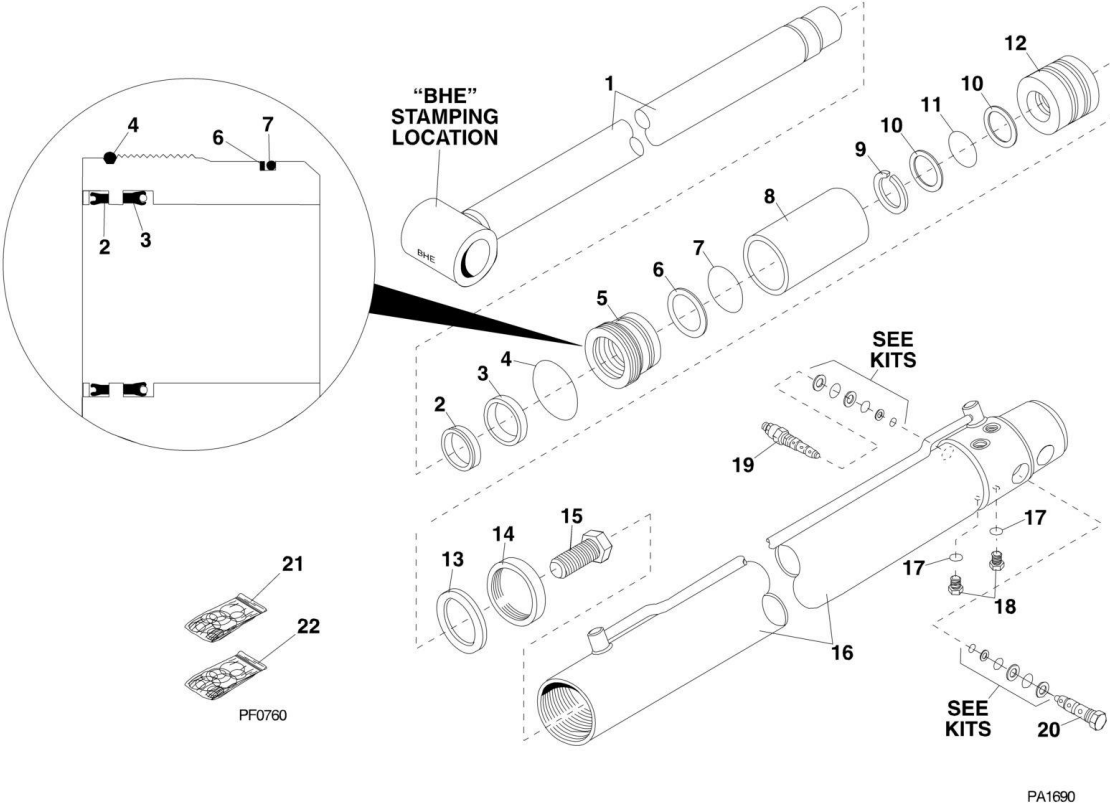
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-9. BOOM EXTEND CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2711693	1	Cylinder, Boom Extend/Retract - TJB (Includes Items 1 thru 18)	
1	8032731	1	Rod	
2	See Kits	1	Wiper	
3	See Kits	1	Seal, Rod	
4	See Kits	1	Seal, Piston	
5	8032734	1	Piston	
8	See Kits	1	O-Ring	
6	See Kits	1	Setscrew, Nylon	
7	See Kits	1	Setscrew	
9	8032736	1	Tube, Stop	
10	See Kits	1	O-Ring	
11	See Kits	1	Ring, Backup	
12	8032732	1	Gland	
13	N.S.S.	1	Tube Cylinder	
14	8902212	1	Valve, Counterbalance w/o TLC (See Kits)	
15	8032737	1	Valve, Counterbalance w/TLC Only (See Kits)	
16	8032738	1	Plug	
17	See Kits	1	Seal, Step	
18	See Kits	1	O-Ring	
		Ref	KITS	
19	8205659	1	Seal Kit, Boom Extend/Retract Cylinder (Includes Items 2, 3, 4, 6, 7, 8, 10, 11, 17 & 18)	
20	8205656	2	Seal Kit, Counterbalance & Pilot Check Valves (Includes 3 O-Rings & 3 Backup Rings)	
21	8035246	1	Seal Kit, Gland Static Seal (Consists of 1 O-Ring & 1 Backup Ring)	
		Ref	Important: Before ordering internal service parts, you must first identify the cylinder by the manufacturer's stamping (see illustrations). The BHE cylinders are no longer available as individual complete assemblies. You must replace individual BHE cylinders with a pair of the same TJB cylinders.	

SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-10. BOOM EXTEND CYLINDER



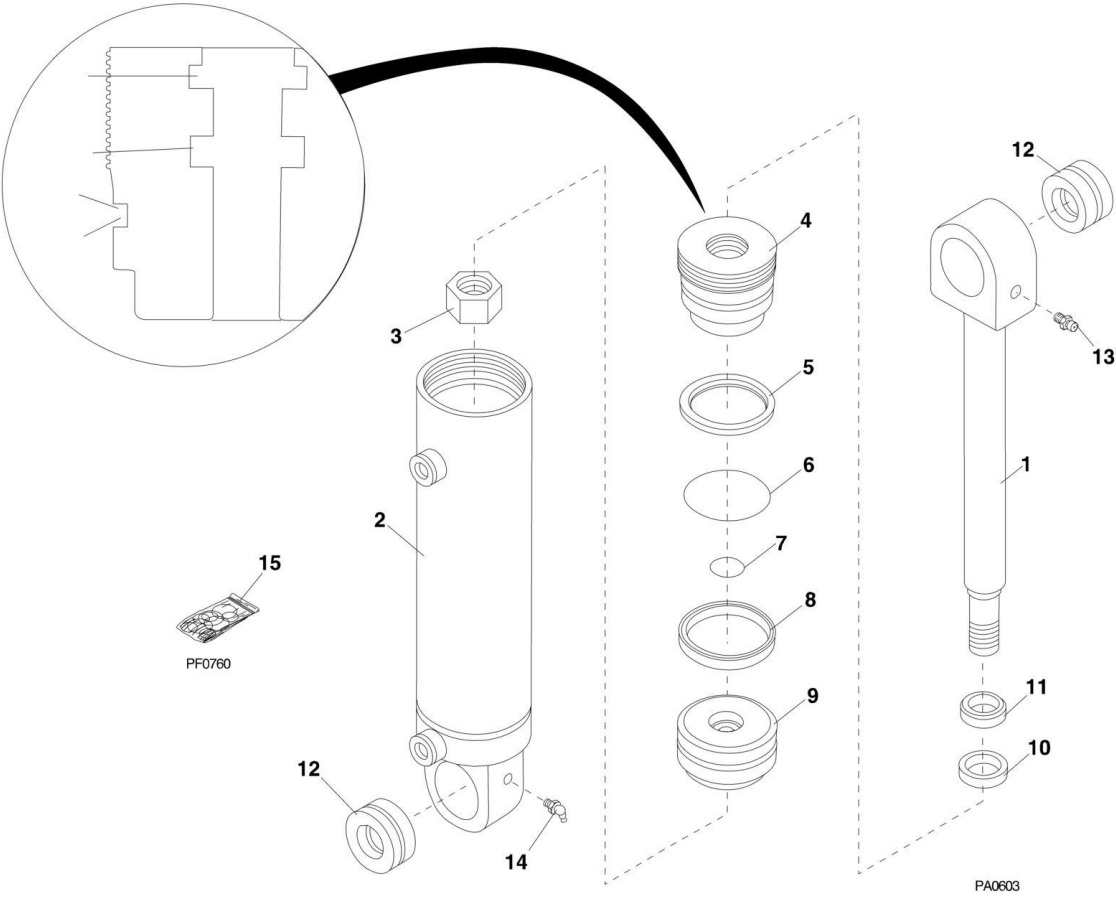
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-10. BOOM EXTEND CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2711693	1	Cylinder, Boom Extend/Retract - BHE (Includes Items 1 thru 20)	
1	8033119	1	Rod	
2	See Kits	1	Wiper	
3	See Kits	1	Seal	
4	See Kits	1	O-Ring	
5	8033115	1	Head	
6	See Kits	1	Ring, Backup	
7	See Kits	1	O-Ring	
8	8033122	1	Spacer	
9	8033123	1	Ring, Snap	
10	See Kits	2	Ring, Backup	
11	See Kits	1	O-Ring	
12	8033128	1	Piston	
		Ref	KITS	
13	See Kits	1	Seal/Expander Assembly	
14	See Kits	1	Bearing	
15	8033129	1	Screw, Hex Hd Cap	
16	N.S.S.	1	Barrel	
17	See Kits	2	O-Ring	
18	8033131	2	Plug	
19	8902473	1	Valve, Counterbalance	
20	8032737	1	Valve, Pilot Check	
21	8205667	1	Seal Kit, Boom Extend/Retract Cylinder (Includes Items 2, 3, 4, 6, 7, 10, 11, 13, 14 & 17)	
22	8205656	2	Seal Kit, Counterbalance & Pilot Check Valve (Includes 3 O-Rings & 3 Backup Rings)	
		Ref	Important: Before ordering internal service parts, you must first identify the cylinder by the manufacturer's stamping (see illustrations). The BHE cylinders are no longer available as individual complete assemblies. You must replace individual BHE cylinders with a pair of the same TJB cylinders.	

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FIGURE 6-11. SLAVE CYLINDER



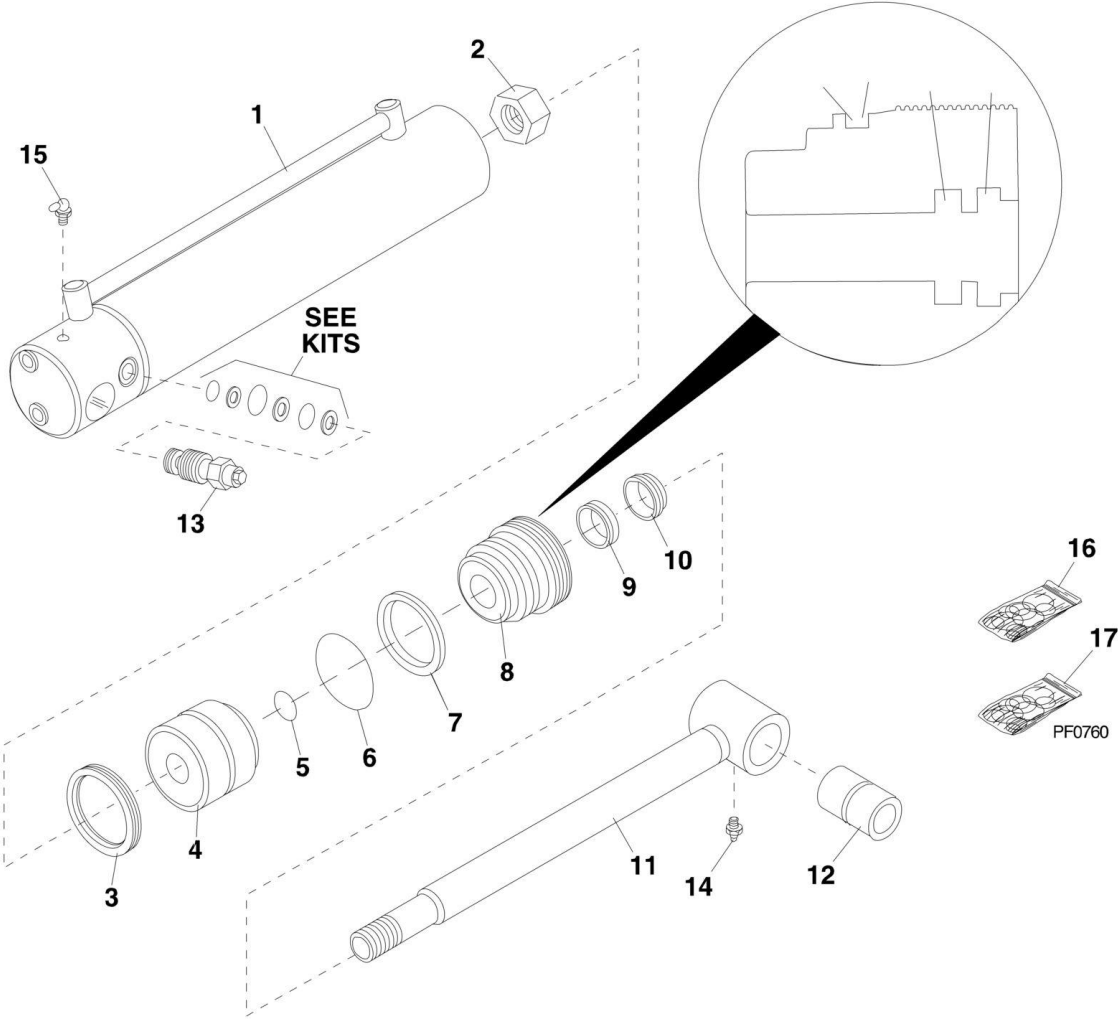
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-11. SLAVE CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2716193	1	Cylinder, Slave (Includes Items 1 thru 12)	
1	8032706	1	Rod	
2	N.S.S.	1	Tube Cylinder	
3	8032702	1	Locknut	
4	8032704	1	Gland	
5	See Kits	1	Ring, Backup	
6	See Kits	1	O-RING	
7	See Kits	1	O-RING	
8	See Kits	1	SEAL, PISTON	
9	8032705	1	Piston	
10	See Kits	1	SEAL, ROD	
11	See Kits	1	Wiper	
12	8065640	2	Bushing	
13	8520013	1	Fitting, Grease, 1/8 NPT	
14	8520021	1	Fitting, Grease, 90	
		Ref	KITS	
15	8032707	1	Seal Kit, Slave Cylinder (Includes Items 5, 6, 7, 8, 10 & 11)	

SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-12. ATTACHMENT TILT CYLINDER



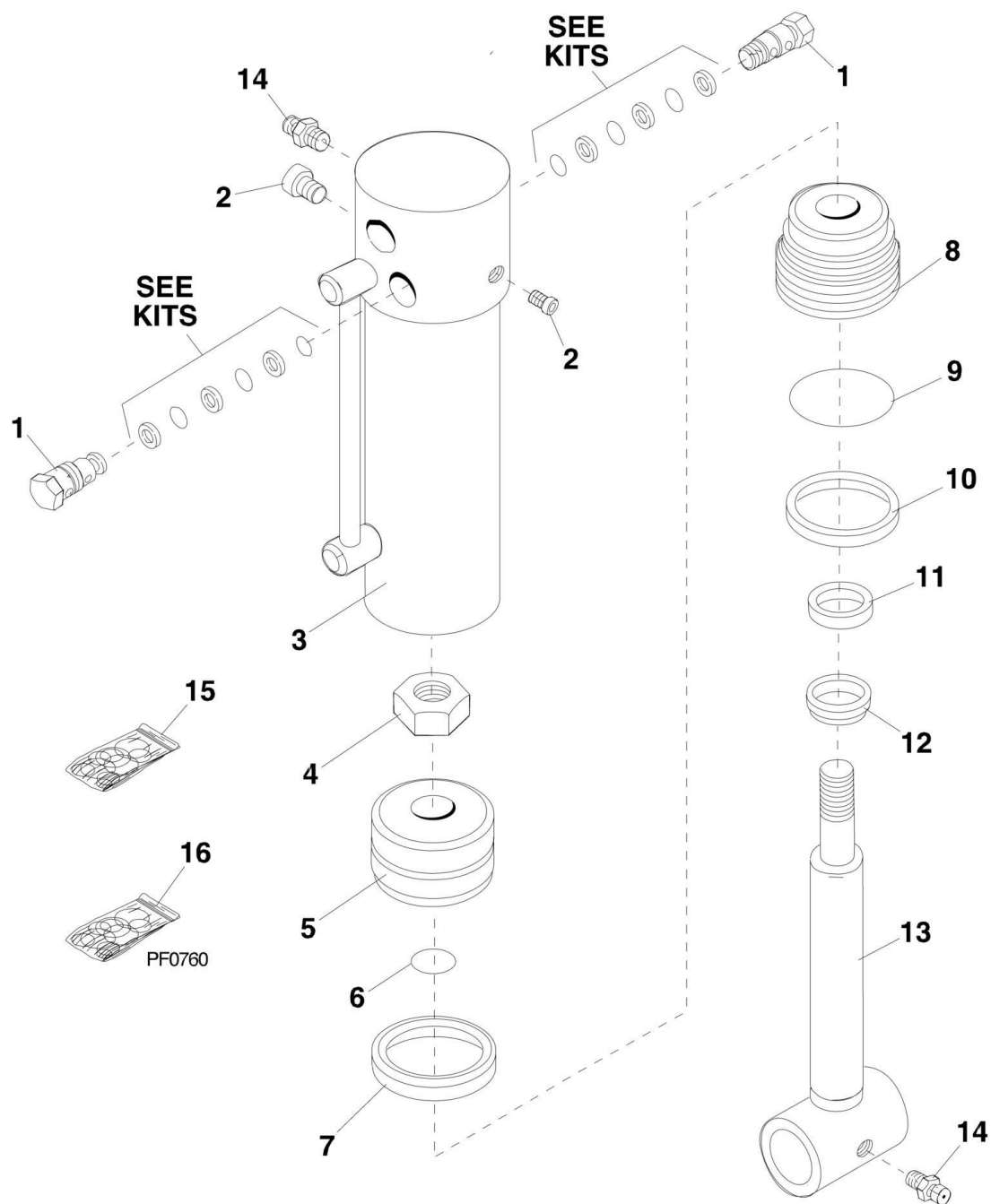
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-12. ATTACHMENT TILT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2711703	1	Cylinder, Attachment Tilt (Includes Items 1 thru 13)	
1	N.S.S.	1	Tube Cylinder	
2	8032702	1	Nut	
3	See Kits	1	SEAL, PISTON	
4	8032746	1	Piston	
5	See Kits	1	O-RING	
6	See Kits	1	O-RING	
7	See Kits	1	Ring, Backup	
8	8032704	1	Gland	
9	See Kits	1	SEAL, ROD	
10	See Kits	1	Wiper	
11	8032747	1	Rod	
12	7089722	2	Bushing	
13	8902247	1	Valve, Counterbalance (See Kits)	
14	8520013	1	Fitting, Grease	
15	8520021	1	Fitting, Grease, 90	
		Ref	KITS	
16	8032707	1	Seal Kit, Attachment Tilt Cylinder (Includes Items 3, 5, 6, 7, 9 & 10)	
17	8205656	1	Seal Kit, Counterbalance Valve (Includes 3 O-Rings & 3 Backup Rings)	

SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-13. FRAME TILT CYLINDER



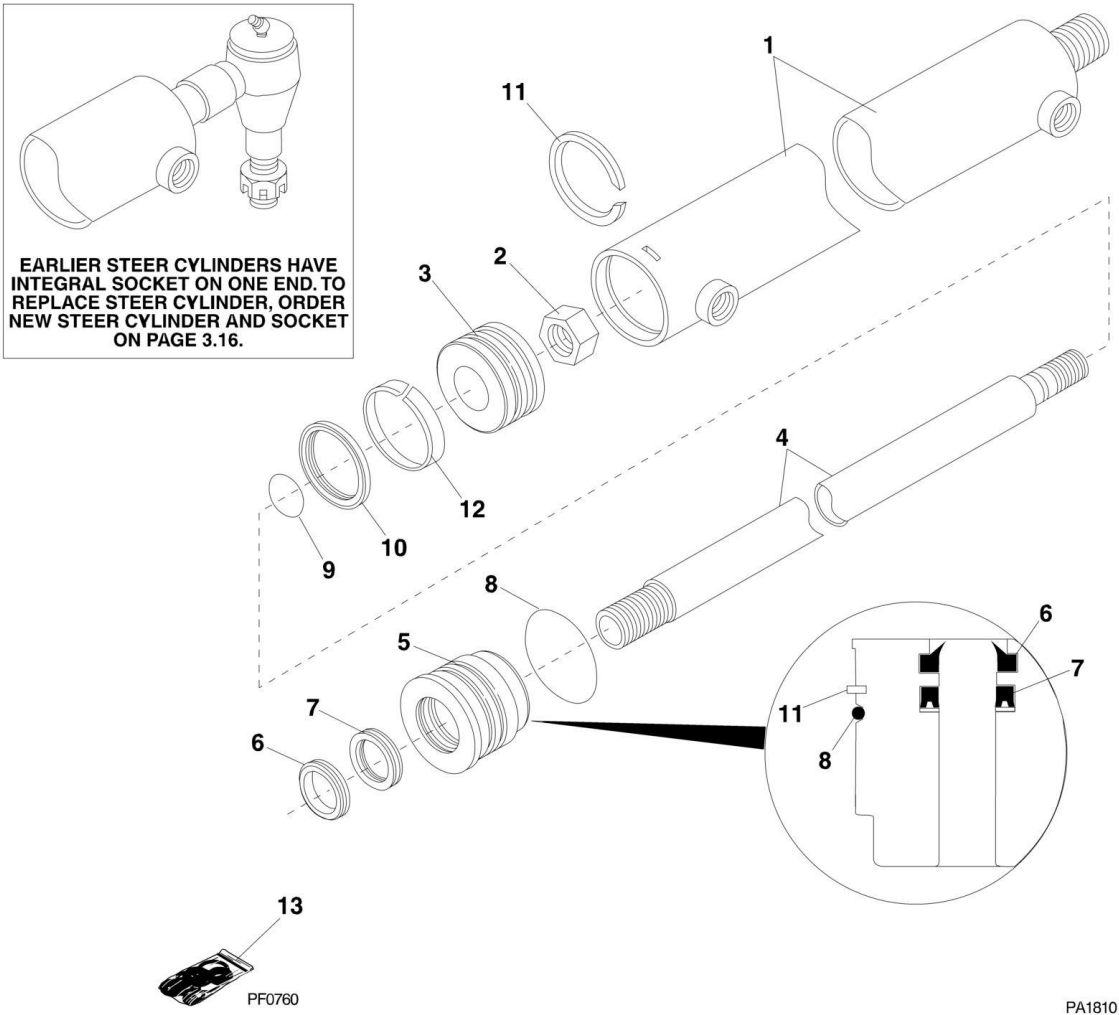
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-13. FRAME TILT CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2711673	1	Cylinder, Frame Tilt (Includes Items 1 thru 13)	
1	8902511	2	Check Valve (See Kits)	
2	8032712	2	Plug	
3	N.S.S.	1	Tube Cylinder	
4	8032726	1	Nut	
5	8032727	1	Piston	
6	See Kits	1	O-RING	
7	See Kits	1	SEAL, PISTON	
8	8032728	1	Gland	
9	See Kits	1	O-RING	
10	See Kits	1	Ring, Backup	
11	See Kits	1	SEAL, ROD	
12	See Kits	1	Wiper	
13	8032729	1	Rod	
14	8520013	2	Fitting, Grease, 1/8 NPT	
		Ref	KITS	
15	8032730	1	Seal Kit, Frame Tilt Cylinder (Includes items 6, 7 & 9 thru 12)	
16	8205655	1	Seal Kit, Check Valve (Includes 3 O-Rings & 3 Backup Rings)	

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FIGURE 6-14. STEERING CYLINDER (Prior to SN 3102)



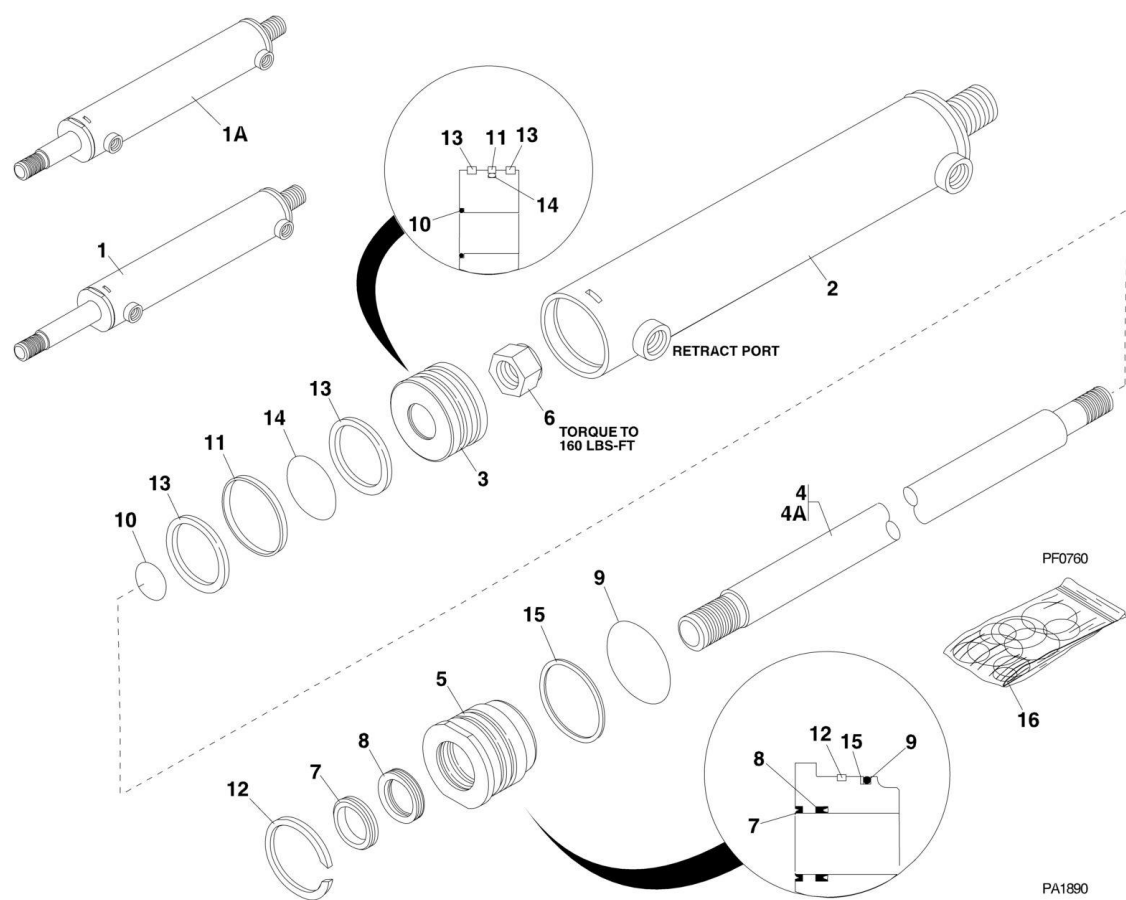
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-14. STEERING CYLINDER (Prior to SN 3102)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8032963	2	Steering Cylinder, Right Front and Left Rear (Includes Items 1 thru 12)	
	8032964	2	Steering Cylinder, Left Front and Right Rear (Includes Items 1 thru 12)	
1	N.S.S.	1	Tube	
2	8033488	1	Locknut	
3	8032966	1	Piston	
4	8032967	1	Rod, Left Front and Right Rear	
4	8032968	1	Rod, Right Front and Left Rear	
5	8032965	1	Gland	
6	See Kits	1	Wiper, Rod	
7	See Kits	1	Z-Seal	
8	See Kits	1	O-RING	
9	See Kits	1	O-RING	
10	See Kits	1	Seal, Crown	
11	See Kits	1	Lockwire	
12	See Kits	1	Wear Ring	
		Ref	KITS	
13	8033489	1	Seal Kit, Steering Cylinder (Includes Items 6 thru 12)	

SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-15. STEERING CYLINDER (SN 3102 to Present)



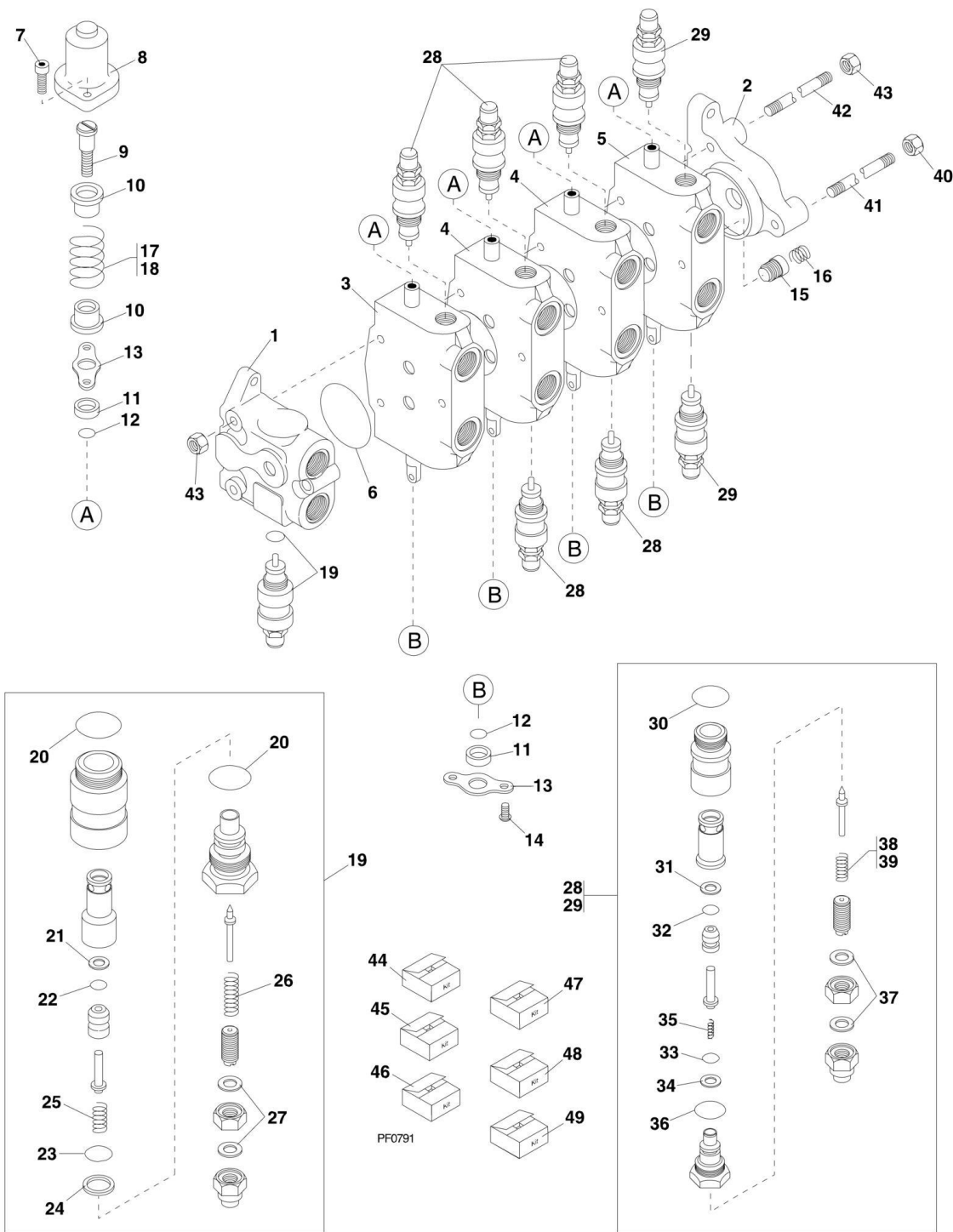
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-15. STEERING CYLINDER (SN 3102 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8034685	2	Steering Cylinder - Right Front and Left Rear	
1A	10837433	2	Steering Cylinder - Left Front and Right Rear	
		Ref	Note: Quantities Listed Below are For 1 Cylinder Only	
	N.S.S.	1	Barrel Assembly	
3	8034827	1	Piston	
4	8034825	1	Rod - 17.17in Long	
4A	8034826	1	Rod - 16.17in Long	
5	NLA	1	Gland	
6	8034824	1	Locknut	
7	See Kit	1	Wiper, Rod	
8	See Kit	1	Seal, U-Cup	
9	See Kit	1	O-Ring	
10	See Kit	1	O-Ring	
11	See Kit	1	Seal, Piston	
12	See Kit	1	Wire Retainer	
13	See Kit	2	Wear Ring	
14	See Kit	1	Expander	
15	See Kit	1	Backup Ring	
		Ref	KITS	
16	8034690	1	Seal Kit, Steering Cylinder, (Includes Items 7 thru 15)	

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FIGURE 6-16. MAIN CONTROL VALVE (Prior to SN 9B0500)



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FIGURE 6-16. MAIN CONTROL VALVE (Prior to SN 9B0500)

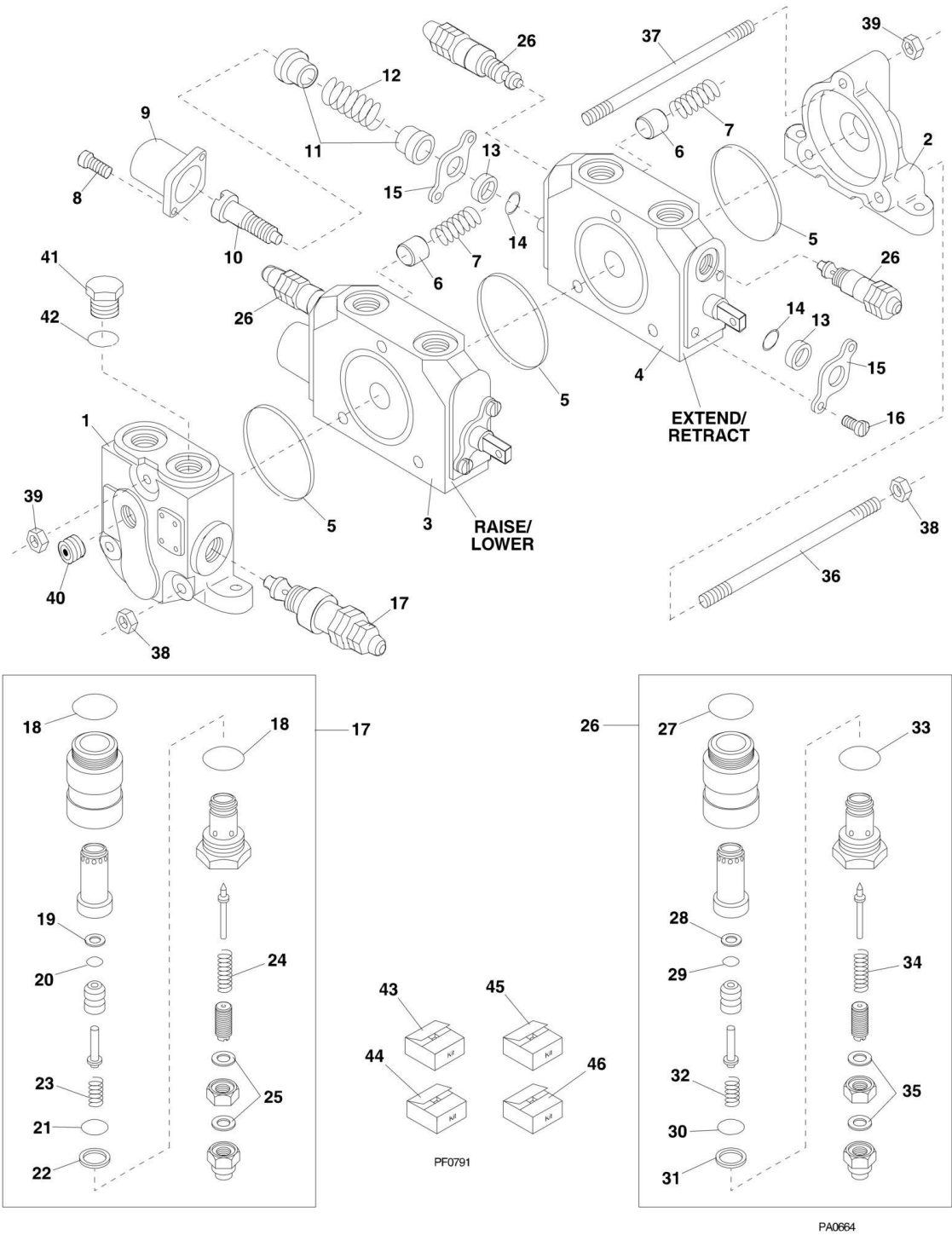
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8902104	1	Main Control Valve (Includes Items 1 thru 43)	
1	8902504	1	Section, Inlet (Includes one of Item 6)	
2	8033215	1	Section, Outlet	
3	8033158	1	Section, Boom Hoist (Includes Items 6 thru 17)	
4	8033159	2	Section, Boom Extend/Fork Tilt (Includes Items 6 thru 17)	
5	8033160	1	Section, Frame Tilt (Includes Items 6 thru 16 & 18)	
6	See Kits	1	O-RING	
7	See Kits	2	Screw, Cap, Socket Hd	
8	See Kits	1	Cap, Spool	
9	See Kits	1	End, Spool	
10	See Kits	2	Seat, Spring	
11	See Kits	2	Wiper	
12	See Kits	2	O-RING	
13	See Kits	2	Plate, Seal	
14	See Kits	2	Screw, Mach, Round Head	
15	See Kits	1	Poppet, C.V.	
16	See Kits	1	Spring	
17	8033161	1	Spring (Used on Items 3 & 4)	
18	8033162	1	Spring (Used on Item 5 only)	
19	8033216	1	Relief Valve, Main - Preset at 3000 ± 50 psi (Includes Items 20 thru 27)	
20	See Kits	2	O-RING	
21	See Kits	1	Ring, Backup	
22	See Kits	1	O-RING	
23	See Kits	1	O-RING	
24	See Kits	1	Ring, Backup	
25	See Kits	1	Spring	
26	See Kits	1	Spring	
27	See Kits	1	O-RING	
28	8033164	5	Relief Valve, Port - Preset at 2650 ± 50 psi (Includes Items 30 thru 38)	
29	8033150	2	Relief Valve, Port - Preset at 1200 ± 50 psi (Includes Items 30 thru 37 & 39)	
30	See Kits	1	O-RING	
31	See Kits	1	Ring, Backup	
32	See Kits	1	O-RING	
33	See Kits	1	O-RING	
34	See Kits	1	Ring, Backup	
35	See Kits	1	Spring	
36	See Kits	1	O-RING	
37	See Kits	2	O-RING	
38	See Kits	1	Spring (Used on Item 28 Only)	
39	See Kits	1	Spring, (Used on Item 29 Only)	
40	See Kits	2	Nut, Special	
41	See Kits	1	Rod, Tie	
42	See Kits	2	Rod, Tie	
43	See Kits	4	Nut, Special	
		Ref	KITS	
44	8902525	1	Rebuild Kit For Sections Items 3 & 4 (Includes 5 of Item 6 & listed quantities of Item 7 thru 17)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	8902526	1	Rebuild Kit For Sections Items 5 (Includes 5 of Item 6 & listed quantities of Item 7 thru 16 AND 18)	
46	8033218	1	Seal and Spring Kit For Main Relief Valve Item 19 (Includes Items 20 thru 27)	
47	8902495	1	Seal and Spring Kit For Port Relief Valve Item 28(Includes Items 30 thru 38)	
48	8033219	1	Seal and Spring Kit For Port Relief Valve Item 29(Includes Items 30 thru 37 & 39)	
49	8903013	1	Tie Rod Kit (Includes Items 40 thru 43)	

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FIGURE 6-17. MAIN CONTROL VALVE (SN 9B0500 to Present)



SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-17. MAIN CONTROL VALVE (SN 9B0500 to Present)

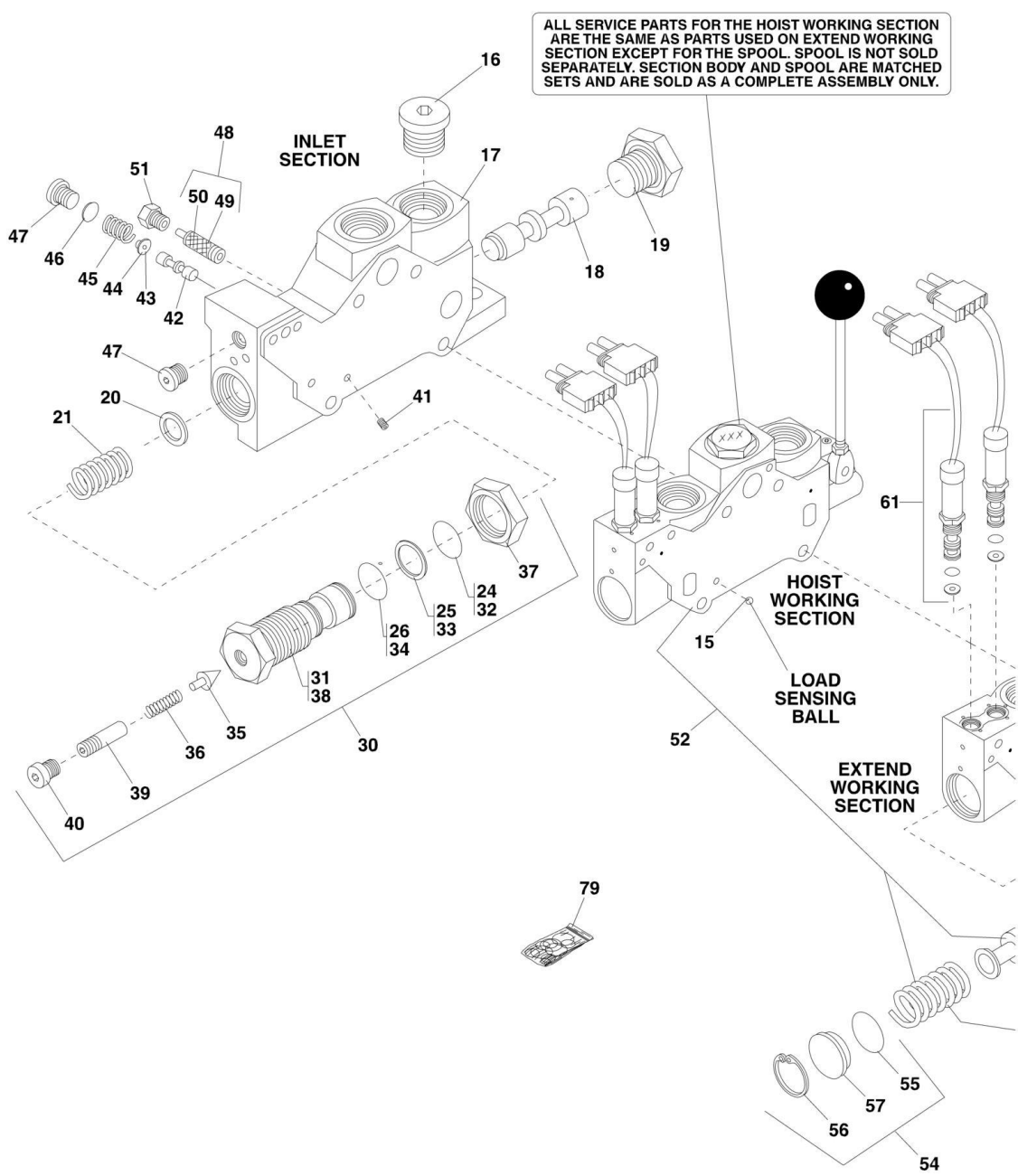
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8902129	1	Main Control Valve (Includes Items 1 thru 42)	
1	8902504	1	Section, Inlet (Includes one of item 5)	
2	8033215	1	Section, Outlet	
3	8033158	1	Section, Boom Raise/Lower (Includes Items 5 thru 16)	
4	8033159	1	Section, Boom Extend/Retract (Includes Items 5 thru 16)	
5	See Kits	1	O-RING	
6	See Kits	1	Poppet, C.V.	
7	See Kits	1	Spring	
8	See Kits	2	Screw, Socket Hd Cap	
9	See Kits	1	Cap, Spool	
10	See Kits	1	End, Spool	
11	See Kits	2	Seat Spring	
12	8033161	1	Spring	
13	See Kits	2	Wiper	
14	See Kits	2	O-RING	
15	See Kits	2	Plate, Seal	
16	See Kits	2	Screw, Machine, Round Hd	
17	8033164	1	Relief Valve, Main - Preset at 2650 ± 50 psi (Includes Items 18 thru 25)	
18	See Kits	2	O-RING	
19	See Kits	1	Ring, Backup	
20	See Kits	1	O-RING	
21	See Kits	1	O-RING	
22	See Kits	1	Ring, Backup	
23	See Kits	1	Spring	
24	See Kits	1	Spring	
25	See Kits	2	O-RING	
26	8033412	3	Relief Valve, Port - Preset at 2850 ± 50 psi (Includes Items 27 thru 35)	
27	See Kits	1	O-RING	
28	See Kits	1	Ring, Backup	
29	See Kits	1	O-RING	
30	See Kits	1	O-RING	
31	See Kits	1	Ring, Backup	
32	See Kits	1	Spring	
33	See Kits	1	O-RING	
34	See Kits	1	Spring	
35	See Kits	2	O-RING	
36	See Kits	2	Rod, Tie	
37	See Kits	1	Rod, Tie	
38	See Kits	4	Nut, Special	
39	See Kits	2	Nut, Special	
40	See Kits	1	Plug Assembly, SAE	
41	See Kits	1	Plug	
42	See Kits	1	O-RING	
		Ref	KITS	
43	8033154	1	Rebuild Kit for items 3 & 4 (Includes 3 of item 5, listed quantities of items 6 thru 16 & 40, 41 & 42)	
44	8033218	1	Seal and Spring Kit for Main Relief Valve Item 17 (Includes items 18 thru 25)	

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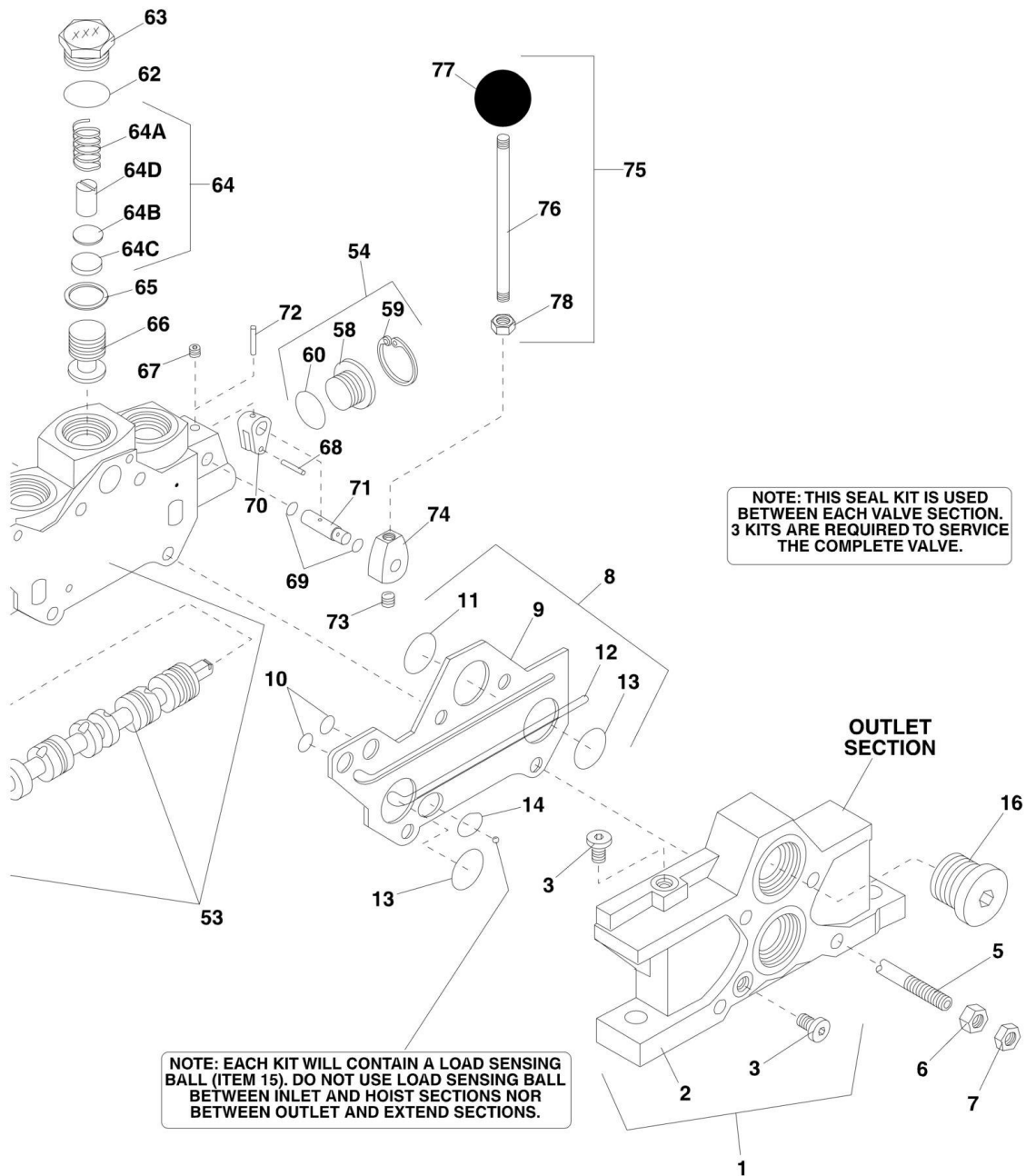
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	8902495	3	Spring and Seal Kit for Port Relief Valve Item 26 (Includes items 27 thru 35)	
46	8903011	1	Tie Rod Kit (Includes Items 36 thru 39)	

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FIGURE 6-18. MAIN CONTROL VALVE - ELECTRONIC (Prior to SN 9B0500)



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FIGURE 6-18. MAIN CONTROL VALVE - ELECTRONIC (SN 9B0500 to Present)

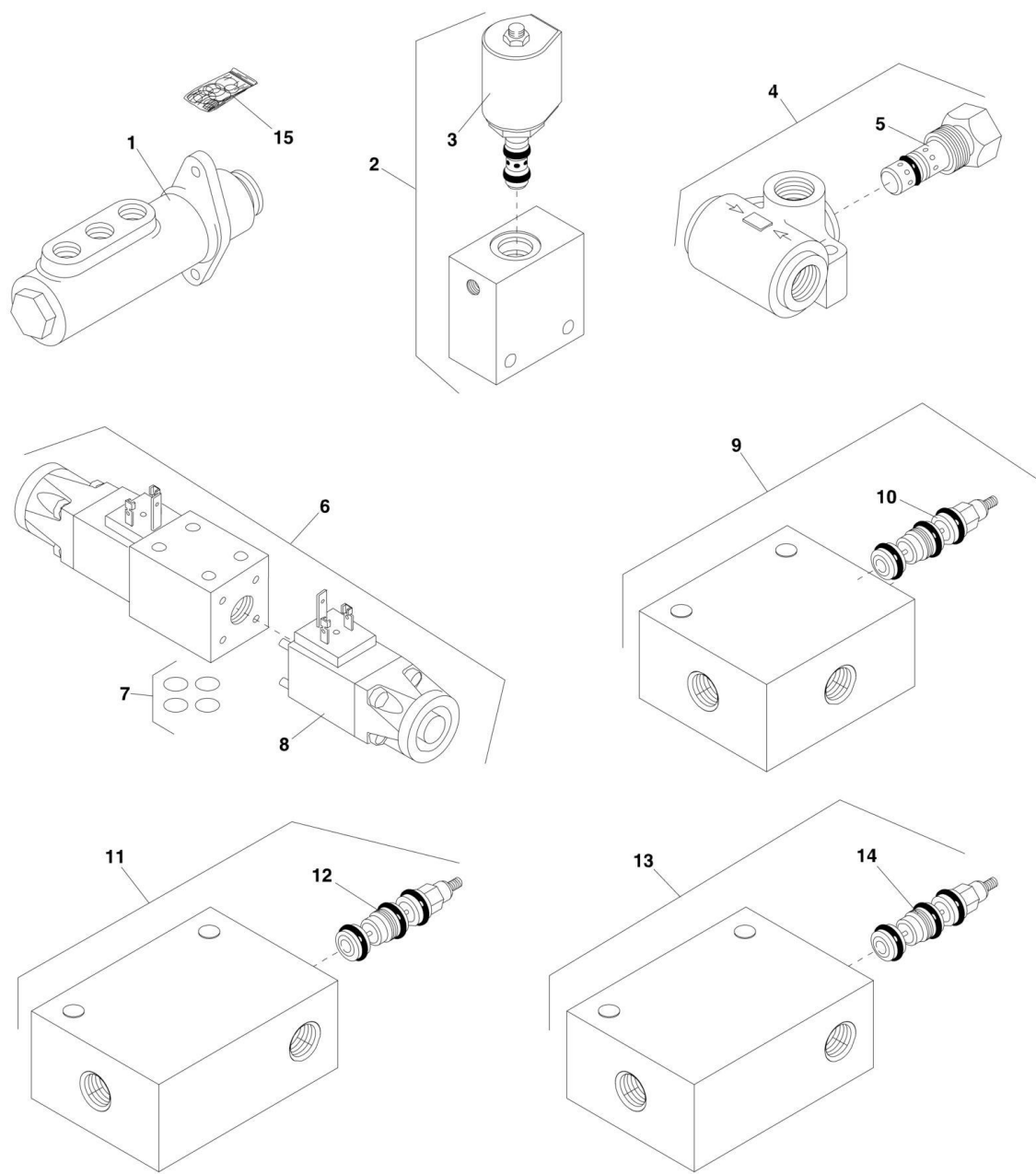
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8902146	1	Main Control Valve (Includes Items 1 thru 78)	
1	8033255	1	Outlet Section (Includes Items 2 & 3)	
2		Ref	Body, End Cover	
3		Ref	Plug, SAE	
4	8033256	1	Tie Rod Kit (Includes Items 5, 6 & 7)	
5	Kit	4	Rod, Tie	
6	Kit	4	Nut, Hex	
7	Kit	4	Nut, Jam	
8	8033257	3	Seal Plate Kit (Includes Items 9 thru 15)	
9	Kit	1	Plate, Seal	
10	Kit	2	O-Ring	
11	Kit	1	O-Ring	
12	Kit	1	O-Ring	
13	Kit	2	O-Ring	
14	Kit	1	O-Ring	
15	Kit	1	Ball, 3/16in	
16	8033258	2	Plug, SAE	
17	8033278	1	Bypass Compensating Inlet Valve Assembly (Includes Items 16, 18-21, 30, 41-48 & 51)	
18	8033279	1	Spool, Bypass	
19	8033280	1	Plug, SAE	
20	8033281	1	Washer, Spring	
21	8033282	1	Spring, Compression	
22	8033284	1	Bypass Compensating O-Ring Kit (Includes Items 23 thru 29)	
23	Kit	1	O-Ring (Not Shown)	
24	Kit	1	Ring, Backup	
25	Kit	1	O-Ring	
26	Kit	1	O-Ring	
27	Kit	3	O-Ring, Plug (Not Shown)	
28	Kit	2	O-Ring, Plug (Not Shown)	
29	Kit	1	O-Ring, Plug (Not Shown)	
30	8033285	1	Compensator Adjustment Kit (Includes Items 31 thru 40)	
31	Kit	1	Seat	
32	Kit	1	O-Ring	
33	Kit	1	Ring, Backup	
34	Kit	1	O-Ring	
35	Kit	1	Cone, Poppet	
36	Kit	1	Spring, Pressure Limiter Compression	
37	Kit	1	Nut, Lock	
38	Kit	1	Plug, Adjustment	
39	Kit	1	Screw, Set	
40	Kit	1	Plug, SAE	
41	8033286	1	Screw, Orifice	
42	8033287	1	Spool, Pilot Reducing	
43	8033288	1	Ball, Valve	
44	8033289	1	Guide, Spring	
45	8033290	1	Spring, Compression	
46	8033291	4	Shim, Pilot	
47	8033292	2	Plug, SAE	
48	8033295	1	Bypass Pilot Filter Kit (Includes Items 49 & 50)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	Kit	1	O-Ring	
50	Kit	1	Filter	
51	8033293	1	Plug, SAE	
52	8033259	1	Hoist Working Section Valve Assembly (Includes Spool)	
53	8033260	1	Extend Working Section Valve Assembly (Includes Spool)	
54	8033261	1	End Plug Kit (Includes Items 55 thru 60)	
55	Kit	1	O-Ring	
56	Kit	1	Ring, Retaining	
57	Kit	1	Plug	
58	Kit	1	Plug	
59	Kit	1	Ring, Retaining	
60	Kit	1	O-Ring	
61	8903009	1	Solenoid Cartridge w/ Weather Pack Connector	
62	8033263	1	O-Ring	
63	8033264	1	Plug, Compensator	
64	8033249	1	Compensator Spring Kit (Includes Items 64A thru 64D)	
64A	Kit	1	Spring, Compensator	
64B	Kit	2	Shim, 0.003in	
64B	Kit	2	Shim, 0.008in	
64B	Kit	2	Shim, 0.025in	
64C	Kit	1	Backup Washer	
64D	Kit	1	Pin, Slotted	
65	8033267	1	Ring, Retaining	
66	8033268	1	Spool, Compensator	
67	8033269	1	Plug, Pipe	
68	8033270	1	Pin, Dowel	
69	8033271	2	O-Ring	
70	8033272	1	Clevis	
71	8033273	1	Shaft	
72	8033274	1	Pin, Spring	
73	8033275	1	Set Screw	
74	8033276	1	Adapter, Handle	
75	8033277	1	Manual Override Handle Kit (Includes Items 76, 77 & 78)	
76	Kit	1	Rod, Handle	
77	Kit	1	Ball, Handle	
78	Kit	1	Nut, Jam	
		Ref	KITS	
79	8033294	1	Working Section O-Ring Kit (Includes Items 55, 60, 62 & 69)	

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FIGURE 6-19. DIRECTIONAL CONTROL VALVES (Prior to SN 9B0500)



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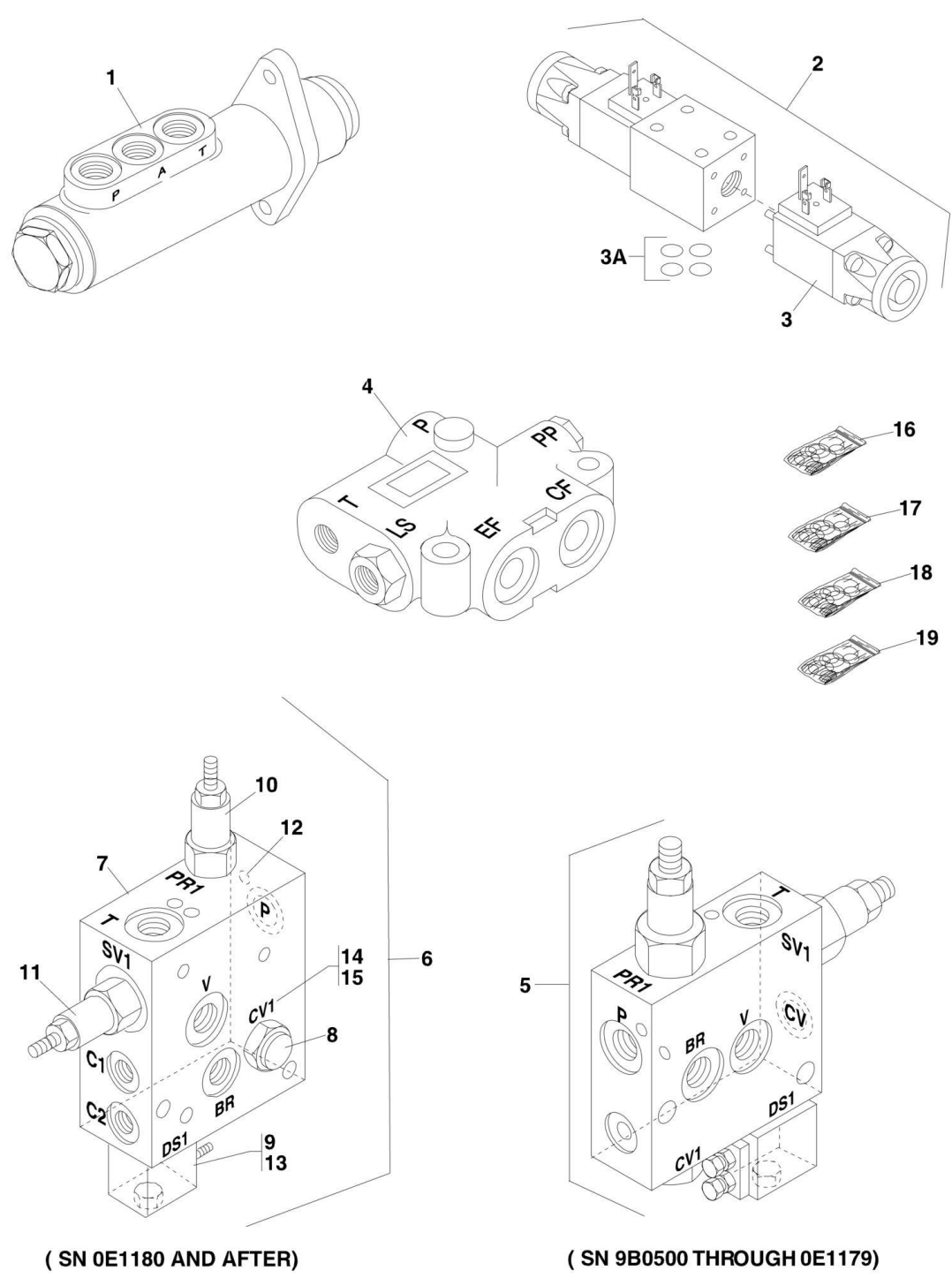
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-19. DIRECTIONAL CONTROL VALVES (Prior to SN 9B0500)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902222	1	Brake Valve Assembly (See Kits)	
2	8902116	1	Valve, Park Lock Release	
2	8902134	1	Valve, Park Lock Release (For Units w/Declutch)	
3	8902130	1	Solenoid	
4	8902651	1	Valve, Relief	
5	8032758	1	Cartridge	
6	8902109	1	Valve, Steer Select	
7	8640017	4	O-Ring	
8	8032756	2	Solenoid	
9	8902224	1	Valve, Sequence	
10	8032757	1	Cartridge	
11	8902225	1	Valve, Pressure Reducing	
12	8032759	1	Cartridge	
13	8902230	1	Valve, Sequence (Prior to SN 8F0236)	
14	8902231	1	Cartridge	
		Ref	KITS	
15	8033254	1	Repair Kit, Brake Valve (Item 1)	

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FIGURE 6-20. DIRECTIONAL CONTROL VALVES (SN 9B0500 to Present)



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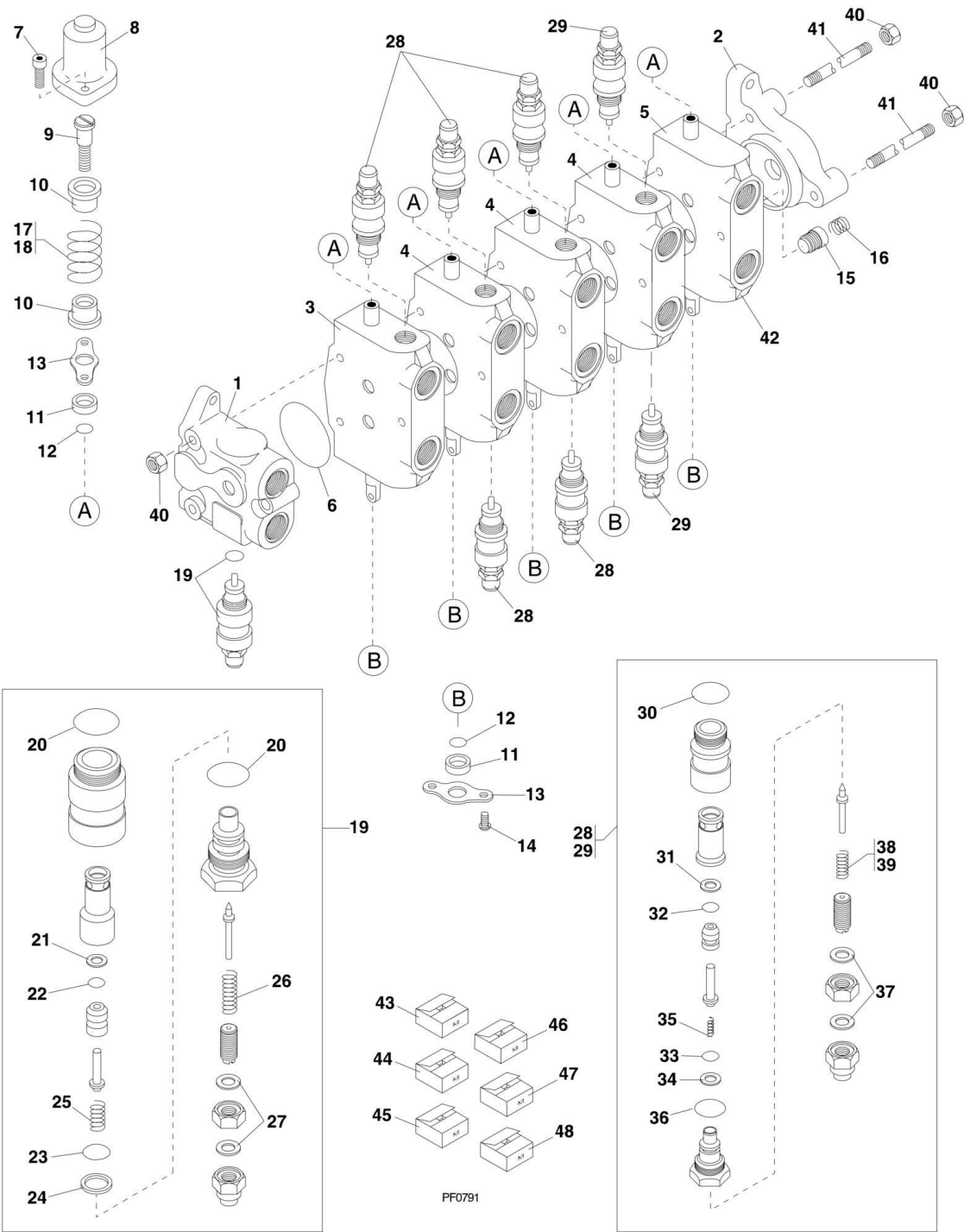
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-20. DIRECTIONAL CONTROL VALVES (SN 9B0500 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	8902222	1	Brake Valve Assembly (See Kits)	
2	8902109	1	Valve, Steer Select (Includes Items 3 & 3A)	
3	8032756	2	Solenoid	
3A	8640017	4	O-Ring, Size 2-12	
4	8902227	1	Valve, Priority	
5	7092552	1	Valve, Brake Manifold Kit w/Declutch (Was 8902657 Obsolete) (SN 9B0500 through 0E1179)	
6	8902659	1	Valve, Brake Manifold (Includes Items 7 thru 15) (SN 0E1180 to Present)	
7	N.S.S.	1	Body, (Order Item 6)	
8	8032684	1	Valve, Check (See Kits)	
9	8032788	1	Valve, Solenoid Cartridge, Park Lock Release (See Kits)	
10	8032686	1	Valve, Pressure Reducing (See Kits)	
11	8032687	1	Valve, Sequence (See Kits)	
12	8032688	5	Plug, Expander	
13	8034564	1	Coil	
14	8032690	1	Plug, Orifice	
15	8032790	1	Plug	
		Ref	KITS	
16	8033254	1	Repair Kit, Brake Valve (Item 1)	
17	8032693	1	Seal Kit, Check Valve (Item 8)	
18	8032695	2	Seal Kit, Pressure Reducing Valve and Sequence Valve (Items 10 & 11)	
19	8032791	1	Seal Kt, Park Lock Release Solenoid Valve (Item 9)	

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FIGURE 6-21. MAIN CONTROL VALVE - AUXILIARY HYDRAULICS (Prior to SN 9B0500)



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FIGURE 6-21. MAIN CONTROL VALVE - AUXILIARY HYDRAULICS (Prior to SN 9B0500)

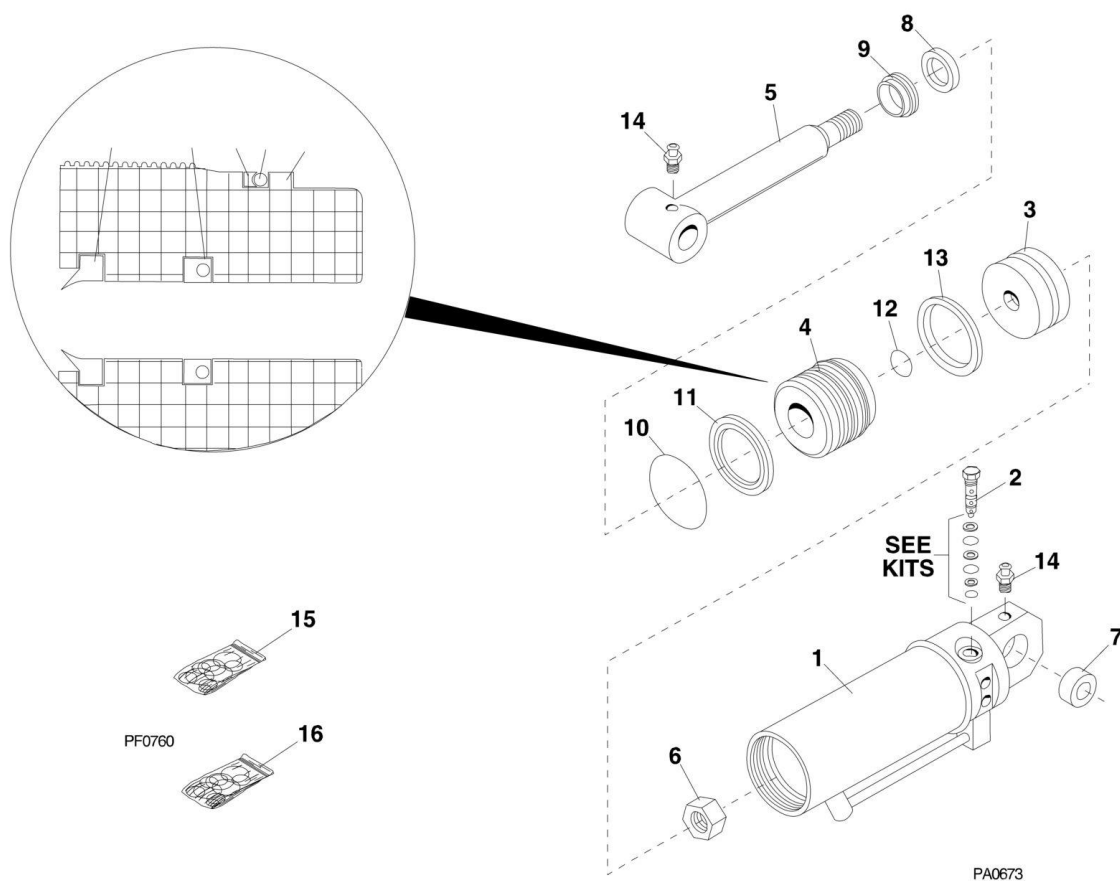
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8902119	1	Main Control Valve - Auxiliary Hydraulics (Includes Items 1 thru 42)	
1	8902504	1	Section, Inlet (Includes one of Item 6)	
2	8033215	1	Section, Outlet	
3	8033158	1	Section, Boom Hoist (Includes Items 6 thru 17)	
4	8033159	2	Section, Boom Extend/Attachment Tilt (Includes Items 6 thru 17)	
5	8033160	2	Section, Frame Tilt (Includes Items 6 thru 16 & 18)	
6	See Kits	1	O-RING	
7	See Kits	2	Screw, Cap, Socket Hd	
8	See Kits	1	Cap, Spool	
9	See Kits	1	End, Spool	
10	See Kits	2	Seat, Spring	
11	See Kits	2	Wiper	
12	See Kits	2	O-RING	
13	See Kits	2	Plate, Seal	
14	See Kits	2	Screw, Round Hd Machine	
15	See Kits	1	Poppet, C.V.	
16	See Kits	1	Spring	
17	8033161	1	Spring (Used on Items 3, 4 & 42)	
18	8033162	1	Spring (Used on Item 5 only)	
19	8033216	1	Relief Valve, Main - Preset at 3000 ± 50 psi (Includes Items 20 thru 27)	
20	See Kits	2	O-RING	
21	See Kits	1	Ring, Backup	
22	See Kits	1	O-RING	
23	See Kits	1	O-RING	
24	See Kits	1	Ring, Backup	
25	See Kits	1	Spring	
26	See Kits	1	Spring	
27	See Kits	2	O-RING	
28	8033164	5	Relief Valve, Port - Preset at 2650 ± 50 psi (Includes Items 30 thru 38)	
29	8033150	2	Relief Valve, Port - Preset at 1200 ± 50 psi (Includes Items 30 thru 37 & 39)	
30	See Kits	1	O-RING	
31	See Kits	1	Ring, Backup	
32	See Kits	1	O-RING	
33	See Kits	1	O-RING	
34	See Kits	1	Ring, Backup	
35	See Kits	1	Spring	
36	See Kits	1	O-RING	
37	See Kits	2	O-RING	
38	See Kits	1	Spring (Used on Item 28 Only)	
39	See Kits	1	Spring (Used on Item 29 Only)	
40	See Kits	6	Nut, Special	
41	See Kits	3	Tie Rod	
42	8902524	1	Section, Auxiliary Hydraulics (Includes Items 6 thru 17)	
		Ref	KITS	
43	8902525	1	Rebuild Kit For Sections Items 3, 4 & 42 (Includes 6 of Item 6 & listed quantities of Items 7 thru 17)	
44	8902526	1	Rebuild Kit For Section Item 5 (Includes 6 of Item 6 & listed quantities of Items 7 thru 16 AND 18)	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
45	8033218	1	Seal and Spring Kit For Main Relief Valve Item 19 (Includes Items 20 thru 27)	
46	8902465	1	Seal and Spring Kit For Port Relief Valve Item 28 (Includes Items 30 thru 38)	
47	8033219	1	Seal and Spring Kit For Port Relief Valve Item 29 (Includes Items 30 thru 37 & 39)	
48	8902523	1	Tie Rod Kit (Includes Items 40 & 41)	

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FIGURE 6-22. SIDE TILT CARRIAGE CYLINDER



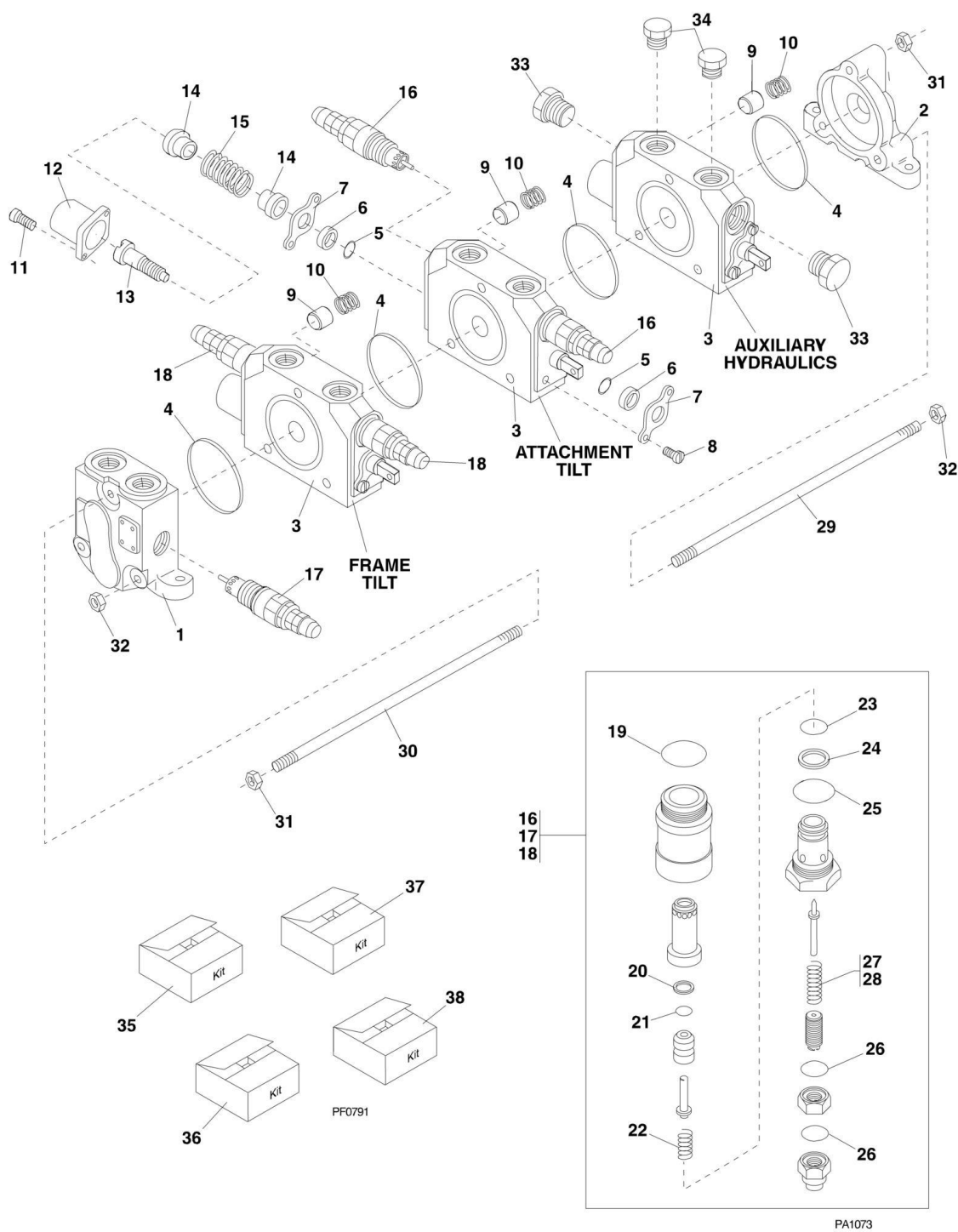
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-22. SIDE TILT CARRIAGE CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2711613	1	Side Tilt Carriage Cylinder (Includes Items 1 thru 13)	
1	N.S.S.	1	Barrel, Cylinder	
2	8902511	2	Valve, Check	
3	8205545	1	Piston	
4	8205546	1	Gland	
5	8205547	1	Rod	
6	8205548	1	Nut, Piston	
7	8205514	1	Bearing, Self-Aligning	
8	See Kits	1	Seal, Rod	
9	See Kits	1	Wiper	
10	See Kits	1	O-RING	
11	See Kits	1	Ring, Backup	
12	See Kits	1	O-RING	
13	See Kits	1	SEAL, PISTON	
14	8520013	2	Fitting, Grease	
		Ref	KITS	
15	8205661	1	Seal Kit, Side Tilt Carriage Cylinder (Includes Items 8 thru 13)	
16	8205655	1	Seal Kit, Check Valve (Includes 3 O-Rings & 3 Backup Rings)	

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FIGURE 6-23. SECONDARY CONTROL VALVE (SN 9B0500 to Present)



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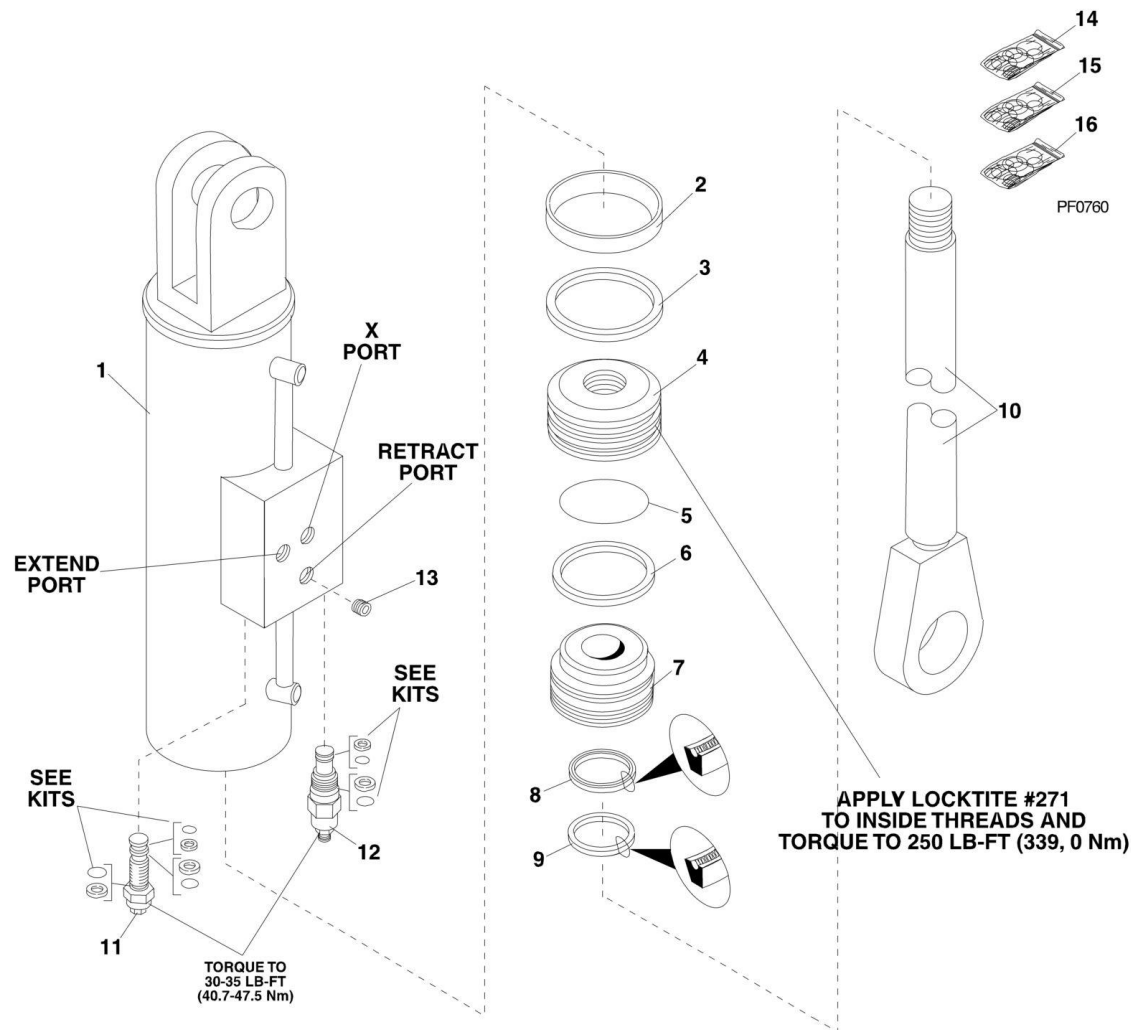
SECTION 6 - HYDRAULIC COMPONENTS

FIGURE 6-23. SECONDARY CONTROL VALVE (SN 9B0500 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8902125	1	Secondary Control Valve, 2 Section (Obsolete - Order valve 8902151 with two 8760419 (Item 34) plugs in work ports)	
	8902151	1	Secondary Control Valve, 3 Section (Includes Items 1 thru 33)	
1	8033234	1	Section, Inlet	
2	8033235	1	Section, Outlet	
3	8033236	3	Section, Frame, Attachment Tilt and Auxiliary (Includes Items 4 thru 15)	
4	See Kits	1	O-RING	
5	See Kits	2	O-RING	
6	See Kits	2	Wiper	
7	See Kits	2	Plate, Seal	
8	See Kits	2	Screw, Round Hd Machine	
9	See Kits	1	Poppet, C.V.	
10	See Kits	1	Spring	
11	See Kits	2	Screw, Socket Hd Cap	
12	See Kits	1	Cap, Spool	
13	See Kits	1	End, Spool	
14	See Kits	2	Seat, Spring	
15	See Kits	1	Spring	
16	8033165	2	Relief Valve, Port - Preset at 3250 ± 50 psi (Includes Items 19 thru 27)	
17	8033412	1	Relief Valve, Main - Preset at 2850 ± 50 psi (Includes Items 19 thru 27)	
18	8033150	2	Relief Valve, Port - Preset at 1200 ± 50 psi (Includes Items 19 thru 26 & 28)	
19	See Kits	1	O-RING	
20	See Kits	1	Ring, Backup	
21	See Kits	1	O-RING	
22	See Kits	1	Spring	
23	See Kits	1	O-RING	
24	See Kits	1	Ring, Backup	
25	See Kits	1	O-RING	
26	See Kits	2	O-RING	
27	See Kits	1	Spring (Used on Items 16 & 17 only)	
28	See Kits	1	Spring (Used on Item 18 only)	
29	See Kits	2	Rod, Tie (For 3 Section Valve)	
30	See Kits	1	Rod, Tie (For 3 Section Valve)	
31	See Kits	2	Nut, Special	
32	See Kits	4	Nut, Special	
33	8902512	2	Plug, Shutoff	
34	8760419	2	Plug, Hex Hd, SAE 8 male str. thd. O-ring	
		Ref	KITS	
35	8033155	AR	Rebuild Kit, For individual service of Item 3 (Includes 4 of Item 4 & listed quantities of Items 5 thru 15)	
36	8902495	1	Seal and Spring Kit, Main and Port Relief Valve (Includes Items 19 thru 27)	
37	8033219	1	Seal and Spring Kit, Port Relief (Includes Items 19 thru 26 & 28)	
38	8902095	1	Tie Rod Kit (Includes Items 29 thru 32) For 3 Section Valves	

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FIGURE 6-24. SWING CARRIAGE CYLINDER



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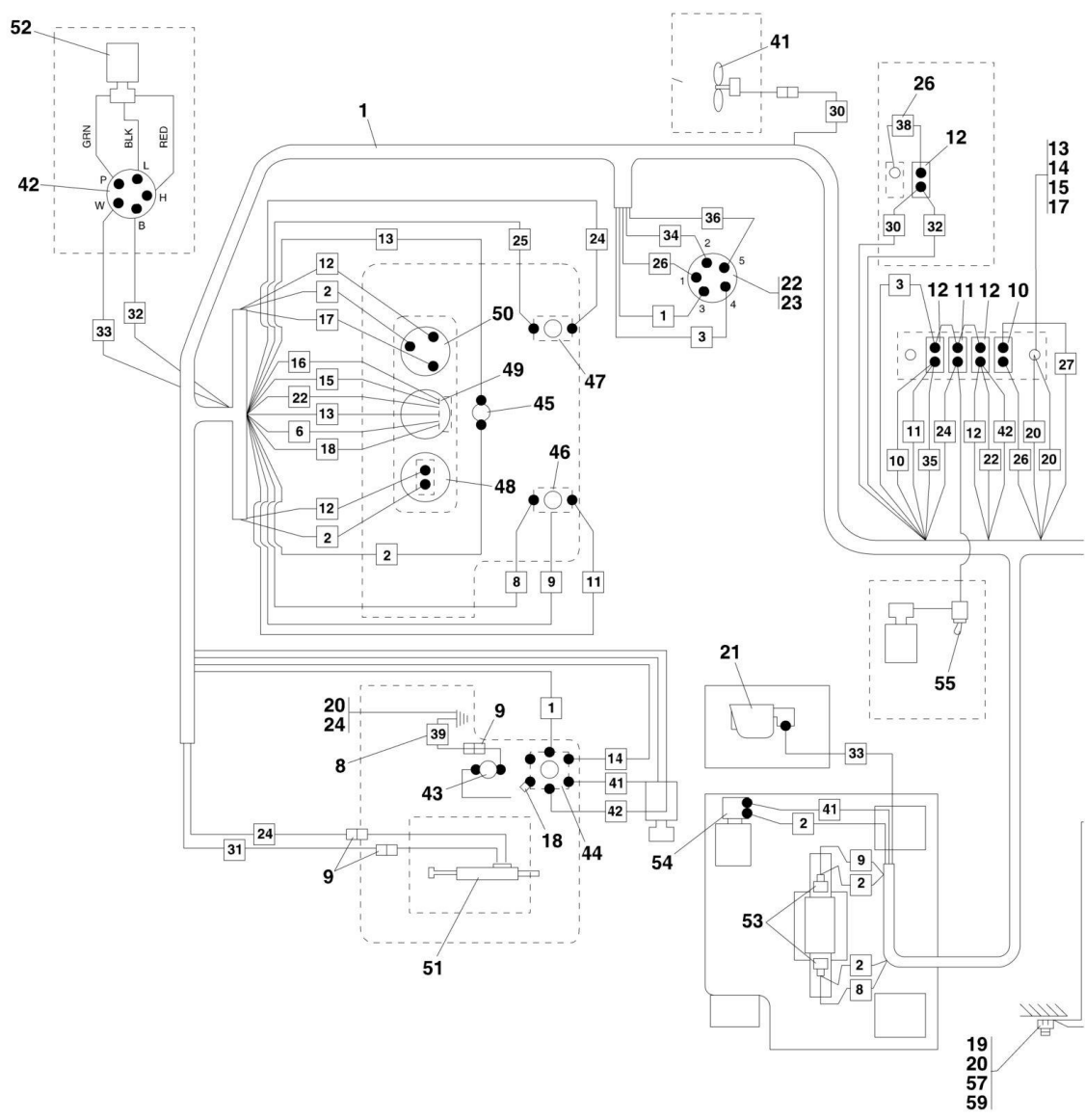
FIGURE 6-24. SWING CARRIAGE CYLINDER

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	2713363	1	Swing Carriage Cylinder (Includes Items 1 thru 13)	
1	N.S.S.	1	Tube, Cylinder	
2	See Kits	1	Wear Ring	
3	See Kits	1	SEAL, PISTON	
4	8033783	1	Piston	
5	See Kits	1	O-RING	
6	See Kits	1	Backup Ring	
7	8033784	1	Gland	
8	See Kits	1	SEAL, ROD	
9	See Kits	1	Wiper	
10	8033785	1	Rod	
11	8033786	1	Valve, Counterbalance Cartridge - 3000 psi (See Kits)	
12	70020428	1	Valve, Direct Acting Relief - 2000 psi (See Kits)	
13	8033788	1	Orifice, 0.038 Dia.	
		Ref	KITS	
14	8033789	1	Seal Kit, Swing Carriage Cylinder (Includes Items 2, 3, 5, 6, 8 & 9)	
15	8205655	1	Seal Kit, Ctrbal. Valve (Includes 3 O-rings & 3 Backup Rings)	
16	7024574	1	Seal Kit, Relief Valve (Includes 3 O-rings & 3 Backup Rings)	

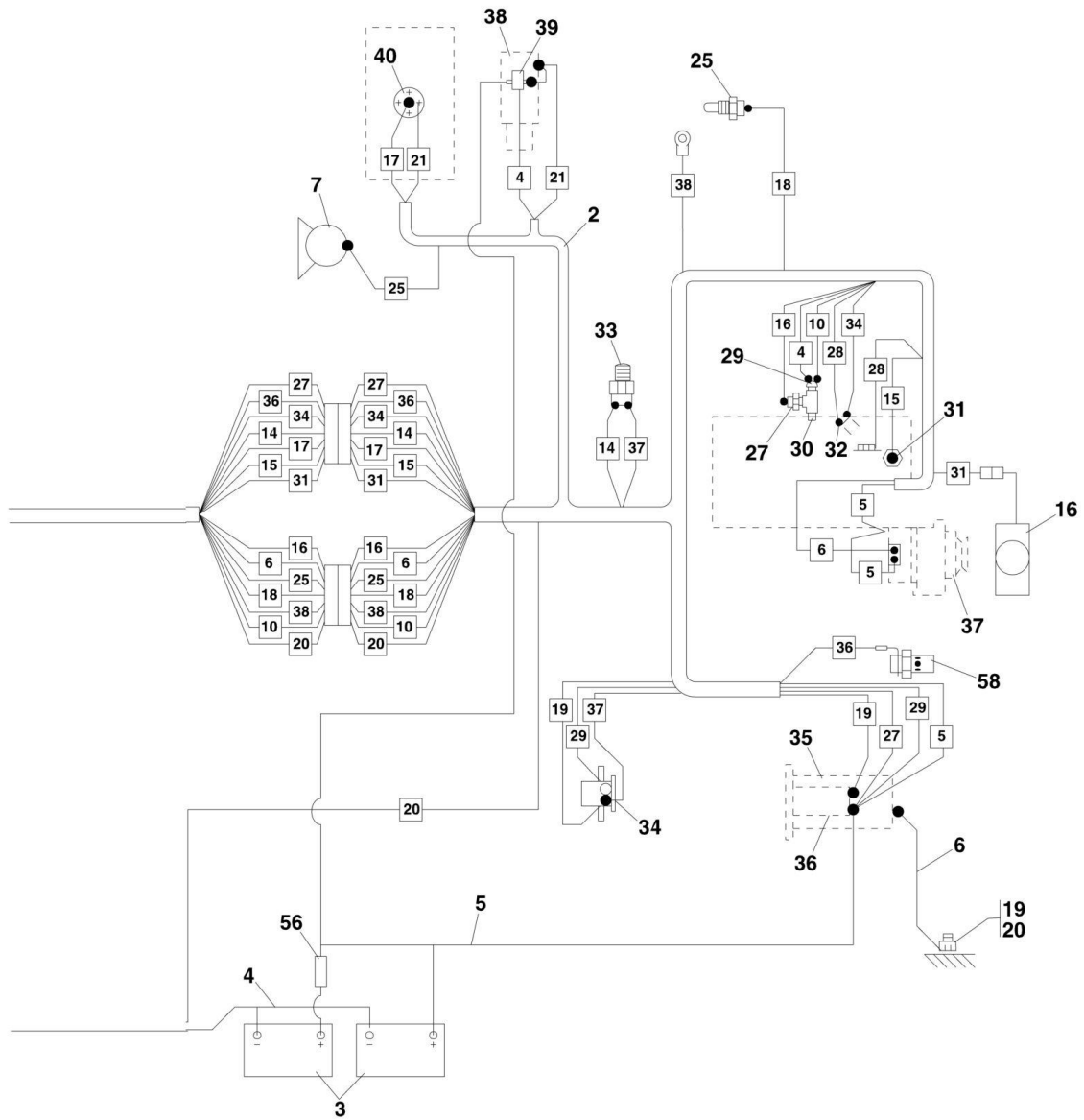
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FIGURE 7-1. ELECTRICAL SYSTEM (Prior to SN 9B0501)



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FIGURE 7-1. ELECTRICAL SYSTEM (Prior to SN 9B0501)

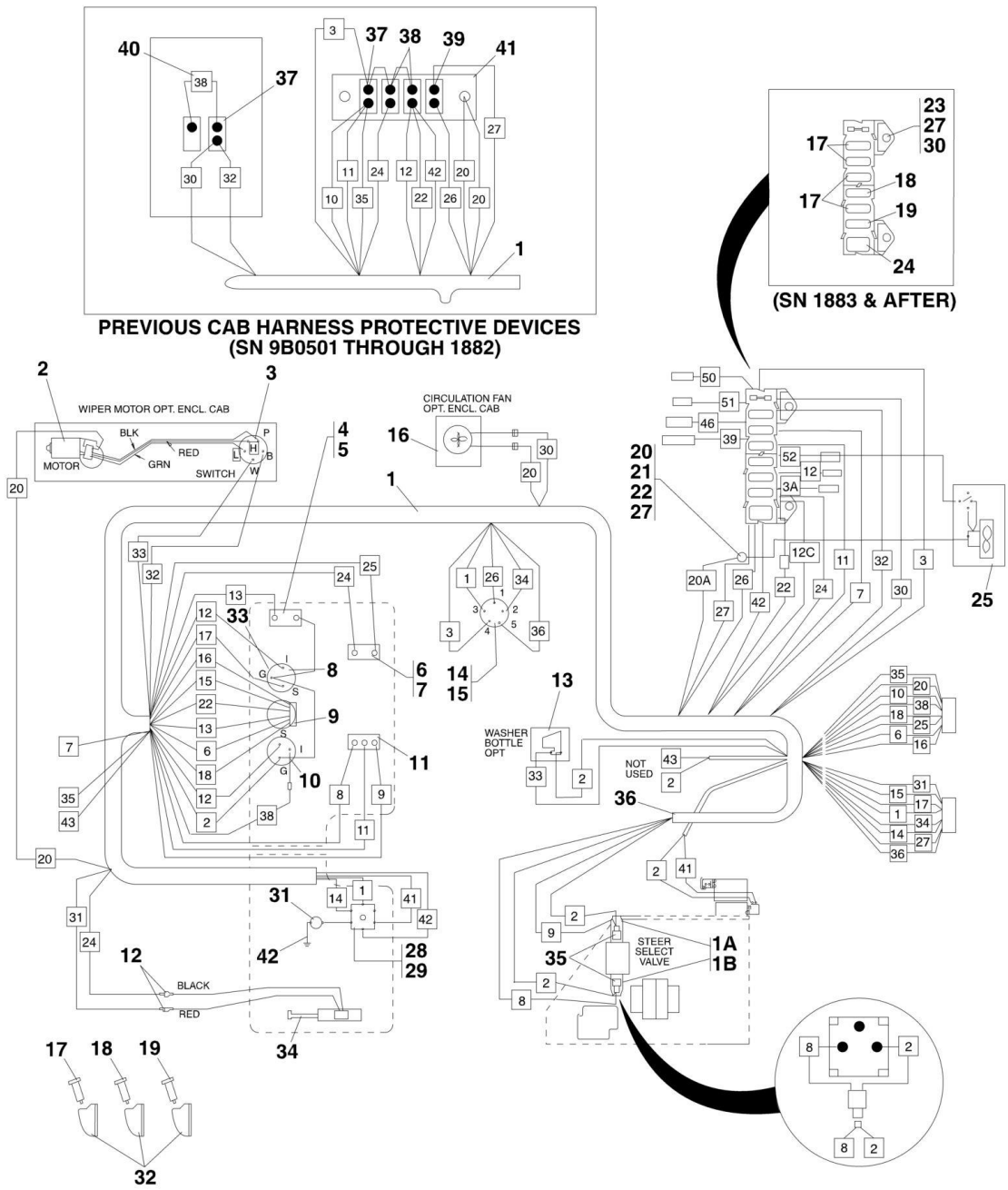
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7082424	1	Harness, Cab	
2	7082584	1	Harness, Engine	
3	8270014	2	Battery, 12 Volt	
4	7084212	1	Cable, Battery-Negative	
5	7085682	1	Cable, Battery-Positive	
6	7068651	1	Cable, Starter Ground	
7	8270602	1	Horn	
8	7084202	1	Wire Assembly	
9	8220050	3	Terminal, Male	
10	8229226	1	Circuit Breaker, 40 amp	
11	8229216	1	Circuit Breaker, 10 amp	
12	8229215	2	Circuit Breaker, 6 Amp (3 Required on Closed Cab)	
13	8229218	1	Bracket, Circuit Breaker	
14	8305004	2	Nut, Hex, 1/4-20	
15	8307005	2	Lockwasher, 3/8	
16	7093442	1	Backup Alarm, Retrofit Kit (Includes Hardware)	
17	8307109	2	Washer, Flat 1/4	
18	8220035	1	Terminal, Ring #6	
19	8305008	2	Nut, Hex, 3/8	
20	8307006	3	Lockwasher, 7/16	
21	8033065	1	Washer Reservoir Assembly	
22	8223436	1	Switch, Ignition (w / keys)	
23	8223438	1	Key, Ignition (Not Shown)	
24	8305405	1	Nut, Jam 3/8-16	
25	8223216	1	Switch, Transmission Temperature	
26	7047041	1	Wire Assembly (Closed Cab Only)	
27	8468026	1	Sender, Low Oil Pressure	
28	8584001	9	Tie Wrap (Not Shown)	
29	8223514	1	Switch, Emergency Pump Oil Pressure	
30	8541627	1	Tee, Street, 1/8NPT	
31	8223217	1	Sender, Water Temperature	
32	8274401	1	Solenoid, Fuel Run	
33	8032677	1	Switch, Neutral Start	
34	8277143	1	Relay, Starter	
35	8006019	1	Starter	
36	8270412	1	Solenoid, Starter	
37	8270219	1	Alternator	
38	8033250	1	Electric Pump Motor (Early Models)	
38	8033180	1	Electric Pump Motor (Late Models)	
39	8032888	1	Solenoid, Electric Pump Motor (Early Models)	
39	8033182	1	Solenoid, Electric Pump Motor (Late Models)	
40	7070992	1	Sender, Fuel Level	
41	8033078	1	Fan,Circulation	
42	8033201	1	Switch, Windshield Washer/ Wiper	
43	8469028	1	Light, Brake	
44	8223444	1	Switch, Brake	
45	8223442	1	Switch, Test	
46	8223220	1	Switch, Steer Select	
47	8223405	1	Button, Horn	
48	8467010	1	Hourmeter	

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ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	8466305	1	Gauge, Warning Lights	
50	8464212	1	Gauge, Fuel	
51	8160620	1	Switch, Reverse	
52	8033102	1	Motor, Windshield Wiper	
53	8032756	2	Solenoid, Steer Select Valve	
54	8902130	1	Solenoid, Brake Release Valve	
55	8223024	1	Switch Kit, Heater	
56	8221011	1	Conduit, 1/2 ID x 5 Ft - Cut to Fit	
57	8303620	2	Screw, Hex Hd Cap, 3/8-16 x 1	
58	8277095	1	Plug, Thermo Start	
59	8307026	2	Lockwasher, Shakeproof, 3/8	

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FIGURE 7-2. ELECTRICAL SYSTEM - CAB HARNESS (SN 9B0501 to Present)



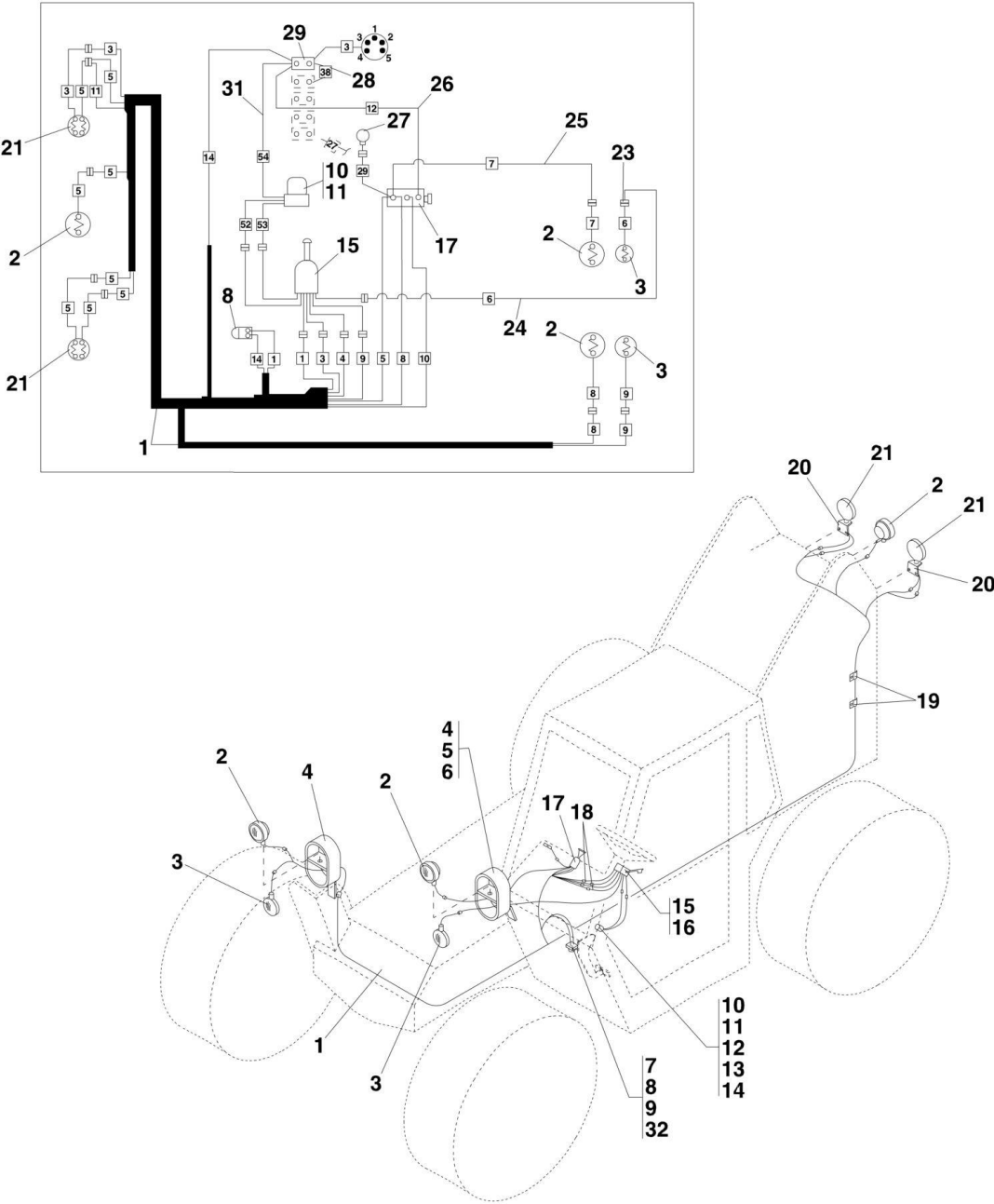
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FIGURE 7-2. ELECTRICAL SYSTEM - CAB HARNESS (SN 9B0501 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7089114	1	Harness, Cab (Obsolete)	
1	7114754	1	Harness, Cab (Includes Items 1A & 1B)	
1A	8220882	2	Connector, Solenoid (Includes Item 1B)	
1B	8688026	2	Seal, Connector (Not Shown)	
2	7112511	1	Motor Kit, Windshield Washer/Wiper	
3	8033201	1	Switch, Windshield Washer/Wiper	
4	8223442	1	Switch, Test	
5	8580312	1	Boot, Test Switch	
6	8223405	1	Button, Horn	
7	8580311	1	Boot, Horn Button	
8	8464212	1	Gauge, Fuel	
9	8466305	1	Gauge, Warning Lights	
10	8467014	1	Hourmeter	
11	8223220	1	Switch, Steer Select	
12	8220050	2	Terminal, Male	
13	8033065	1	Washer Reservoir Assembly	
14	8223436	1	Switch, Ignition	
15	8223438	1	Key, Ignition (w/Keys)	
16	8033078	1	Fan, Circulation	
17	8229233	3	Fuse, 7.5 Amp (4 Required on Closed Cab)	
18	8229234	2	Fuse, 10 amp	
19	8229235	1	Fuse, 20 Amp (Optional Light Package)	
20	8305004	2	Nut, Hex, 1/4	
21	8307109	2	Washer, Flat, 1/4	
22	8307005	2	Lockwasher, Internal Tooth, 3/8	
23	8305002	2	Nut, Hex, #10	
24	8229415	1	Circuit Breaker, 40 Amp	
25	8223024	1	Switch Kit, Heater	
26	8584001	5	Wrap, Tie (Not Shown)	
27	8307002	3	Lockwasher, 1/4	
28	8223444	1	Switch, Brake	
29	8223445	1	Guard, Switch	
30	8307003	2	Lockwasher, #10	
31	8469028	1	Warning Light, Brake	
32	8582007	3	Clip, Spare Fuse	
33	8220008	1	Terminal, Ring #10	
34	8160621	1	Switch, Reverse	
35	8032756	2	Solenoid, Steer Select Valve	
36	8584003	1	Tie Wrap NOTE: The following protective parts are used with Harness 7089114 only	
37	8229215	2	Circuit Breaker, 6 Amp (3 Required on Closed Cab)	
38	8229216	2	Circuit Breaker, 10 amp	
39	8229226	1	Circuit Breaker, 40 amp	
40	7047041	1	Wire Assembly (Closed Cab Only)	
41	8229218	1	Bracket, Circuit Breaker	
42	7084202	1	Wire Assembly	

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FIGURE 7-3. LIGHTING SYSTEM (EARLY MACHINES)



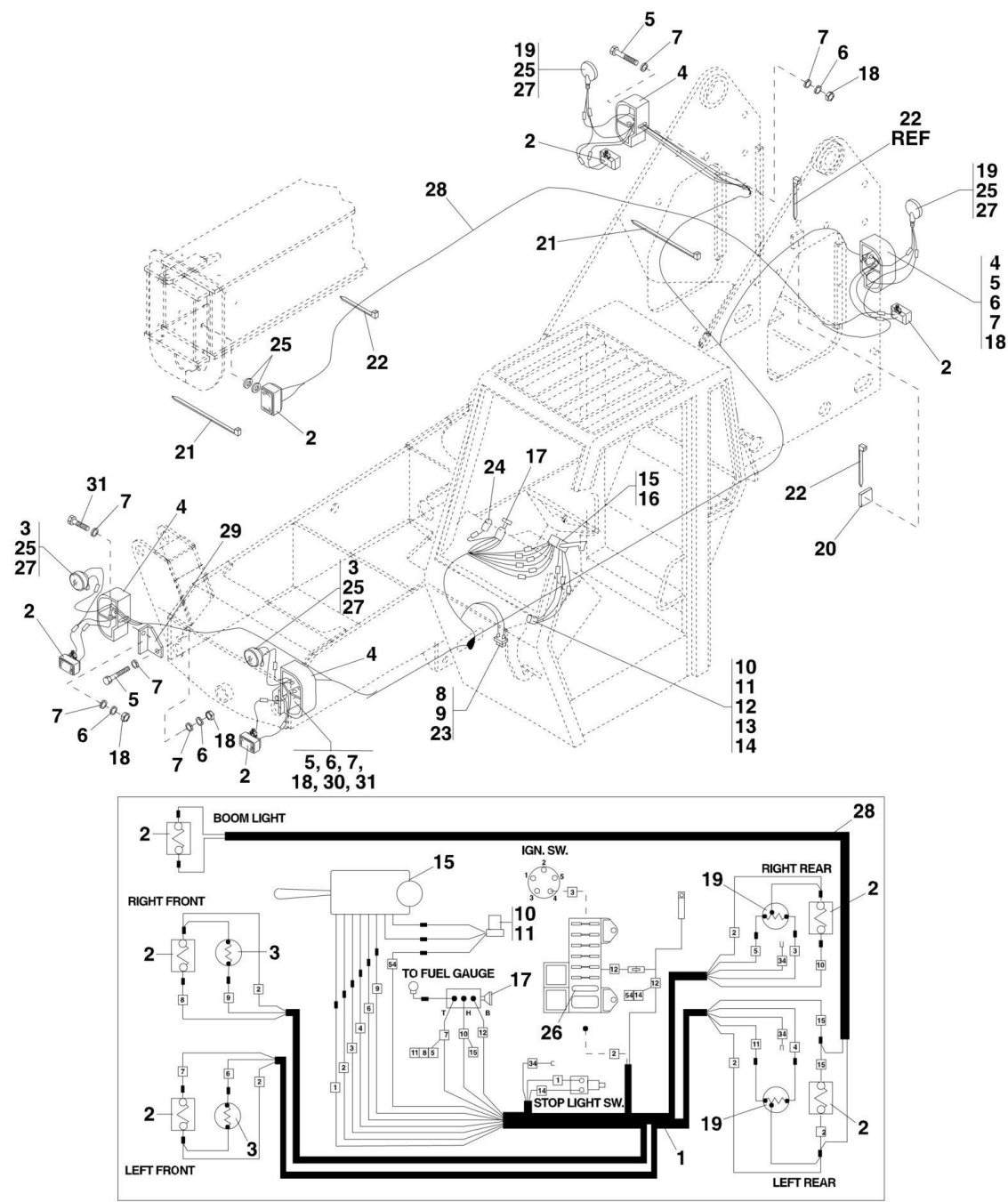
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FIGURE 7-3. LIGHTING SYSTEM (EARLY MACHINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7085783	1	Harness,Wiring	
2	7047421	3	Light, Head Lamp	
3	7069851	2	Light,Turn Signal	
4	7069743	2	Bracket, Front	
5	8305645	2	Locknut, 3/8NC	
6	8303620	2	Screw, Hex Hd Cap, 3/8-16 x 1.0	
7	8580209	1	Grommet	
8	8223025	1	Switch, Momentary Brake Light	
9	7085751	1	Plate, Actuator	
10	7047371	1	Mount, Flasher	
11	8500201	1	Flasher	
12	8303837	2	Screw, Round Hd Mach, #10-24 x 3/4	
13	8305627	2	Locknut, #10-24	
14	8307111	2	Washer, Flat, #10	
15	8223419	1	Switch, Turn Signal	
16	8221011	1	Conduit, 1/2 ID x 5 ft - Cut to fit (Not Shown)	
17	8223016	1	Switch, Head Lights	
18	8220051	7	Terminal, Female, 1/4 Spade	
19	8406002	2	Clamp, Hose, 3/8	
20	7085732	2	Bracket, Tail Light	
21	7015531	2	Light, Stop/Tail	
22	8584003	5	Tie, Plastic, 4.0 Dia. (Not Shown)	
23	8220050	1	Terminal, Male, 1/4 Spade	
24	7085821	1	Wire Assembly	
25	7085801	1	Wire Assembly	
26	7085791	1	Wire Assembly	
27	7058372	1	Light Assembly	
28	7047041	1	Wire Assembly	
29	8229227	1	Circuit Breaker, 15 Amp	
30	7085831	1	Wire Assembly	
31	7087411	1	Wire Assembly	
32	8305405	1	Nut, Jam, 3/8-16	

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FIGURE 7-4. LIGHTING SYSTEM (LATER MACHINES)



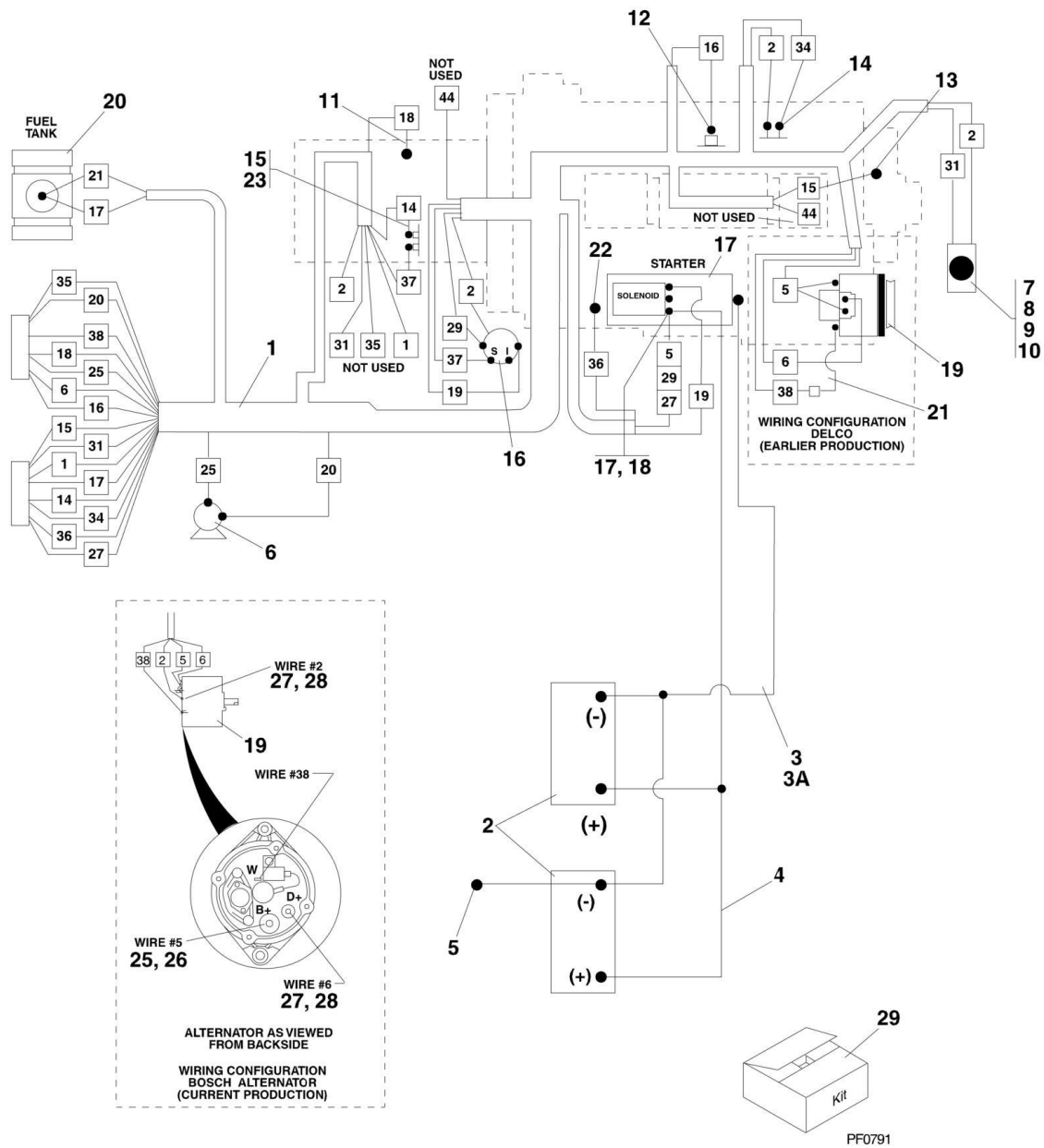
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FIGURE 7-4. LIGHTING SYSTEM (LATER MACHINES)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7098973	1	Harness,Wiring	
2	5721202	5	Light, Head and Work Lamp	
3	8500036	2	Light,Turn Signal	
4	7112302	4	Bracket, Mounting	
5	8303632	4	Screw, Hex Hd Cap, 5/8-11 x 2-1/2	
6	8307008	6	Lockwasher, 5/8	
7	8307207	8	Washer, Flat, 5/8 Heavy	
8	8223025	1	Switch, Momentary Brake Light	
9	7111191	1	Plate, Actuator	
10	8323424	1	Mount, Flasher	
11	8500201	1	Flasher	
12	8303837	2	Screw, Round Hd Mach, #10-24 x 3/4	
13	8305627	2	Nut,Hex Lock, #10-24	
14	8307111	2	Washer, Flat, #10	
15	8223419	1	Switch, Turn Signal	
16	8221011	1	Conduit, 1/2 ID x 5 ft - Cut to fit (Not Shown)	
17	8223016	1	Switch, Head and Tail Lights	
18	8305014	6	Nut, Hex, 5/8-11	
19	8500009	2	Stop/Turn Signal Light	
20	8584018	2	Mount, Tie	
21	8584003	3	Tie, Plastic, 14.8in	
22	8584001	7	Tie, Plastic, 6.7in	
23	8305405	1	Nut, Hex Jam. 3/8	
24	7058372	1	Fuel Gauge Light Assembly	
25	8307206	AR	Washer, Flat, 1/2 Heavy	
26	8229235	1	Fuse, 20 Amp	
27	8220050	6	Terminal, Blade Male, 1/4	
28	7110782	1	Cord, Boom Work Light	
29	7099452	1	Bracket, Mounting, RH	
30	7099462	1	Bracket, Mounting, LH (Not Shown)	
31	8303712	2	Screw, Hex Hd Cap, 5/8-11 x 1-1/2	

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FIGURE 7-5. ELECTRICAL SYSTEM - ENGINE HARNESS (PERKINS ENGINE) (SN 9B0501 to Present)



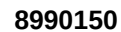
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FIGURE 7-5. ELECTRICAL SYSTEM - ENGINE HARNESS (PERKINS ENGINE) (SN 9B0501 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7098864	1	Harness, Engine	
1	7096874	1	Harness, Engine (Obsolete)	
2	8270014	2	Battery, 12 Volt	
3	7084542	1	Cable, Battery - Negative	
3A	7068651	1	Cable, Starter Ground (Not used with Cable 7084542) (Not Shown)	
4	7080192	1	Cable, Battery - Positive	
5	8310202	1	Screw, Washer Hd, Type B, 3/8 x 3/4	
6	8270602	1	Horn	
7	7093442	1	Backup Alarm, Retrofit for ECCO Brand (Includes Hardware)	
7	8270617	1	Alarm, Backup - Velvac Brand Replacement	
8	8303615	2	Screw, Hex Hd Cap, 1/4-20 x 1-1/4 Gr 5 (Velvac Brand Only)	
9	8305004	2	Nut, Hex, 1/4-20 (Velvac Brand Only)	
10	8307002	2	Lockwasher, 1/4 (Velvac Brand Only)	
11	8223216	1	Switch, Transmission Temperature	
12	8468026	1	Sender, Low Oil Pressure	
13	8223217	1	Sender, Water Temperature	
14	8274401	1	Solenoid, Fuel Run	
15	8032677	1	Switch, Neutral Start	
16	8277143	1	Relay, Starter	
17	8006019	1	Starter	
18	8270412	1	Solenoid, Solenoid	
19	8270219	1	Alternator (Delco)	
19	8270221	1	Alternator (Bosch)	
20	7070992	1	Sender, Fuel Level	
21	7082261	1	Wire Assembly (Not used with Harness 7098864)	
22	8277095	1	Plug, Thermo Stat	
23	8303987	2	Screw, Round Hd Machine, #8-32 x 1/4	
24	8584001	3	Tie Wrap (Not Shown)	
25	8305438	1	Nut, Jam, M10	
26	8307022	2	Lockwasher, M8	
27	8305043	2	Nut, Hex, M8	
28	8310078	1	Lockwasher, M5	
		Ref	KITS	
29	7098881	1	Wire Harness Kit (For Machines with Delco Alternator)	
29	7098871	1	Wire Assembly	
29	7098864	1	Wire Harness (Bosch)	

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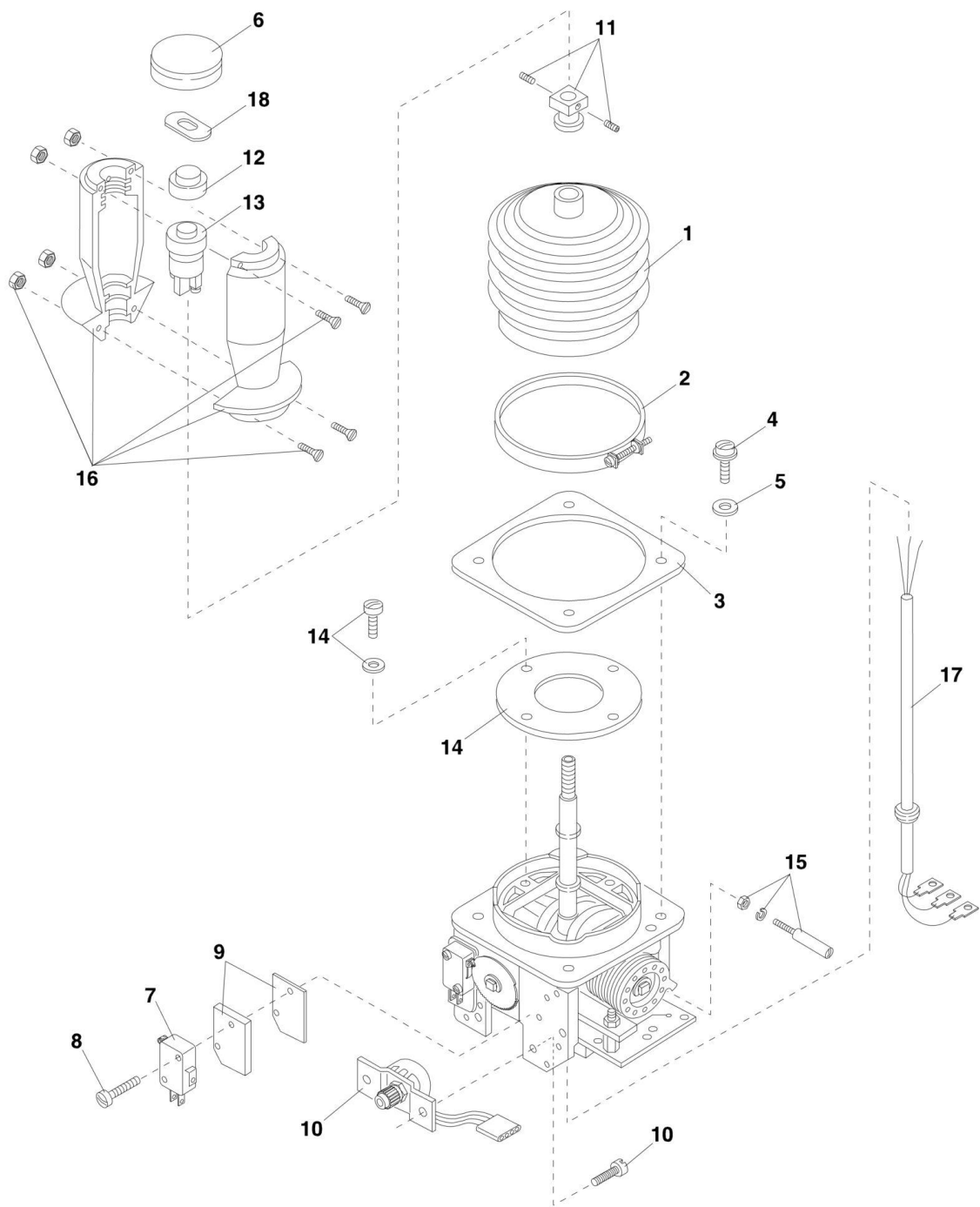
SECTION 7 - ELECTRICAL

FIGURE 7-6. ELECTRICAL SYSTEM - ENGINE HARNESS (CUMMINS ENGINE) (SN 9B0501 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7126684	1	Harness, Engine	
1	7096874	1	Harness, Engine (Obsolete)	
2	8270014	2	Battery, 12 Volt	
3	7114542	1	Cable, Battery - Negative	
3A	7068651	1	Cable, Starter Ground (Not used with Cable 7114542) (Not Shown)	
4	7080192	1	Cable, Battery - Positive	
5	8310202	1	Screw, Washer Hd, Type B, 3/8 x 3/4	
6	8270602	1	Horn	
7	7082261	1	Wire Assembly (Not used with Harness 7098864)	
8	7093442	1	Backup Alarm, Retrofit for ECCO Brand (Includes Hardware)	
8	8270617	1	Alarm, Backup - Velvac Brand Replacement	
9	8303615	2	Screw, Hex Hd Cap, 1/4-20 x 1-1/4 Gr 5 (Velvac Brand Only)	
10	8305004	2	Nut, Hex, 1/4-20 (Velvac Brand Only)	
11	8307002	2	Lockwasher, 1/4 (Velvac Brand Only)	
12	8303697	2	Screw, Round Hd Machine, Type B, 3/8 x 3/4	
13	8310077	1	Nut, Jam, M5	
14	8223216	1	Switch, Transmission Temperature	
15	8223510	1	Sender, Low Oil Pressure	
16	8223217	1	Sender, Water Temperature	
18	8277143	1	Relay, Starter	
19	8270416	1	Starter (Includes Solenoid)	
20	8584001	3	Tie Wrap (Not Shown)	
21	8270219	1	Alternator (Delco)	
21	8270221	1	Alternator (Bosch)	
22	8033341	1	Fan, Alternator (Motorola or Prestolite alternator only)	
23	7070992	1	Sender, Fuel Level	
24	8310078	1	Lockwasher, M5	
25	8305201	1	Nut, Hex, Brass, #8-32	
26	8310041	1	Lockwasher, External Tooth, #8	
27	8220073	1	Terminal, Slip-On Male, #10 SCR	
28	8033406	1	Solenoid, Fuel Run, 12 Volt	
29	8307023	1	Lockwasher, M10	
30	8305438	1	Nut, Jam, M10	
31	8307022	2	Lockwasher, M8	
32	8305043	2	Nut, Hex, M8	
		Ref	KITS	
33	7098881	1	Wire Harness Kit (For Machines with Delco Alternator)	
33	7098871	1	Wire Assembly	
33	7098864	1	Wire Harness (Bosch)	

SECTION 7 - ELECTRICAL

FIGURE 7-7. ELECTRONIC JOYSTICK ASSEMBLY



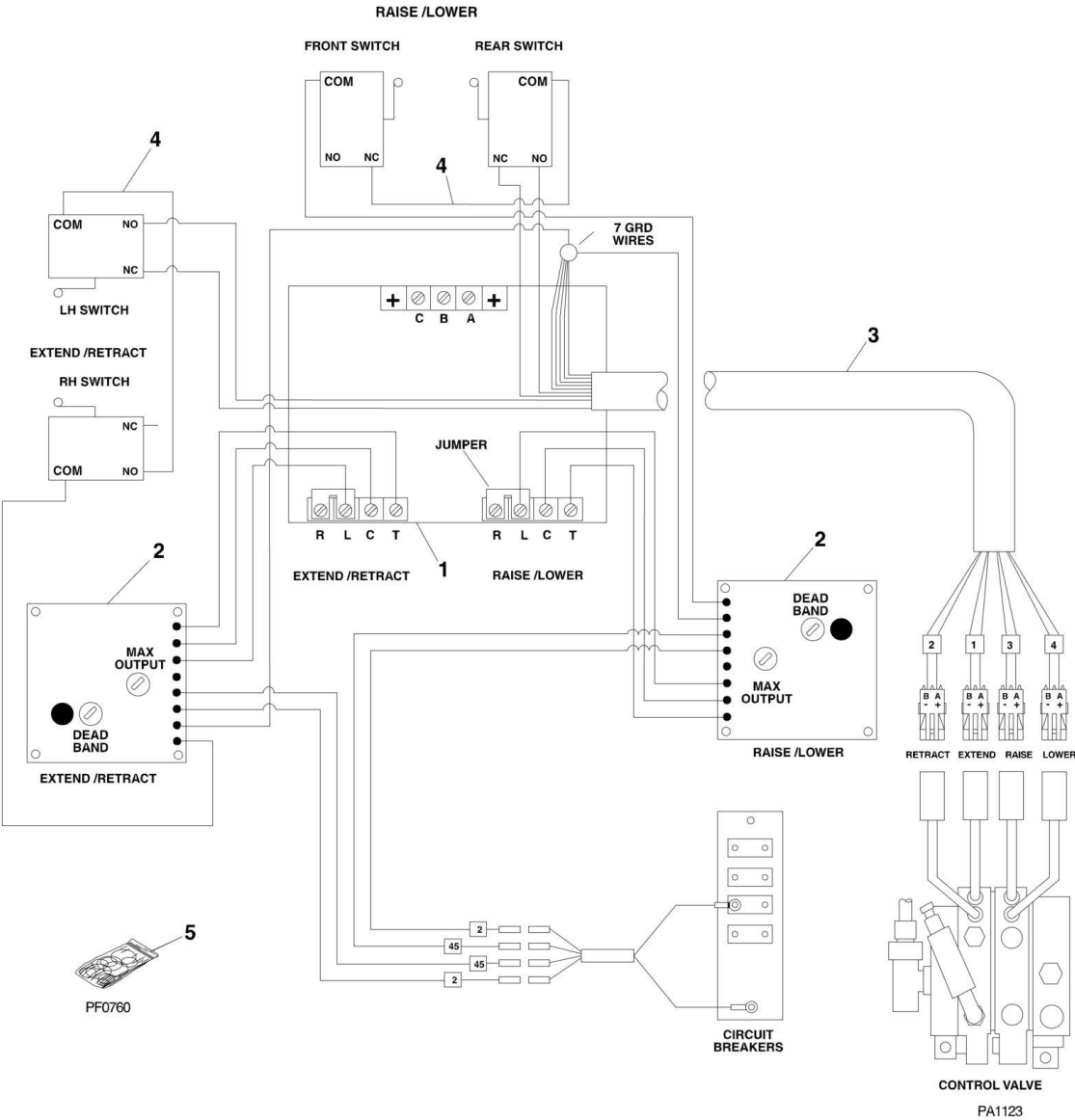
SECTION 7 - ELECTRICAL

FIGURE 7-7. ELECTRONIC JOYSTICK ASSEMBLY

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8224016	1	Joystick Assembly (Includes Items 1 thru 18)	
1	8033389	1	Boot	
2	8033390	1	Clamp Boot	
3	8033391	1	Gasket, Mounting	
4	8033392	4	Screw, M5 x 10	
5	8033393	4	Washer, Nylon #10	
6	8033394	1	Boot, Push button	
7	8033395	4	Microswitch	
8	8033396	8	Screw, #4-10 x 7/8	
9	8033397	1	Insulator Cap	
10	8033398	2	Pot Plate Assembly	
11	8033399	1	Coupling, Shaft w/Screws	
12	8033400	1	Button, Actuating	
13	8033401	1	Switch, Pushbutton	
14	8033402	1	Gate, Special	
15	8033403	1	Stop, Return Spring w/Nut and Lockwasher	
16	8033404	1	Handle Section w/Gaskets (Both Halves)	
17	8033405	1	Wire, 3 Condcutor, 24in Long	
18	8033490	1	Plate, Switch	

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FIGURE 7-8. ELECTRONIC JOYSTICK WIRING W/O TLC (SN 9B0501 to Present)



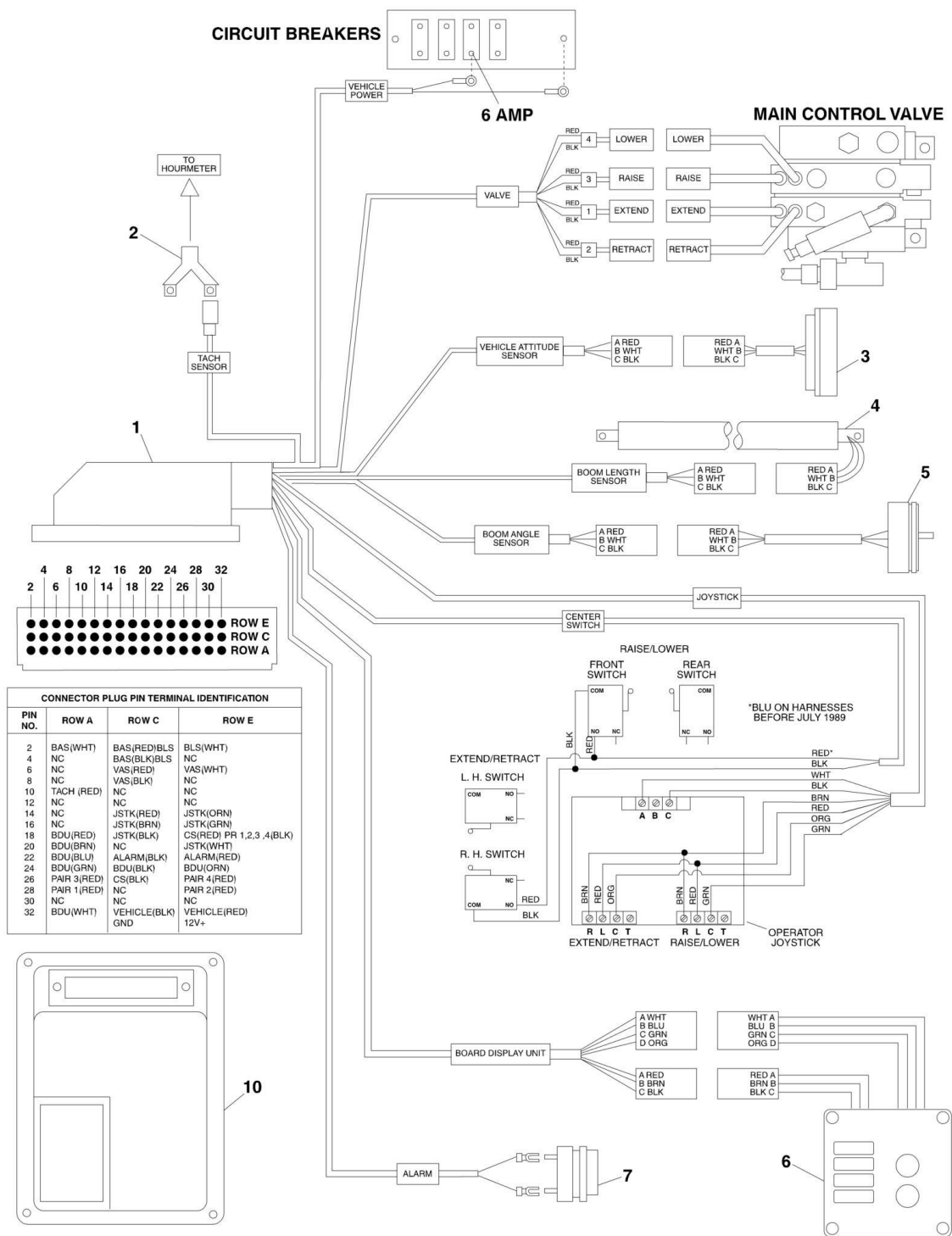
SECTION 7 - ELECTRICAL

FIGURE 7-8. ELECTRONIC JOYSTICK WIRING W/O TLC (SN 9B0501 to Present)

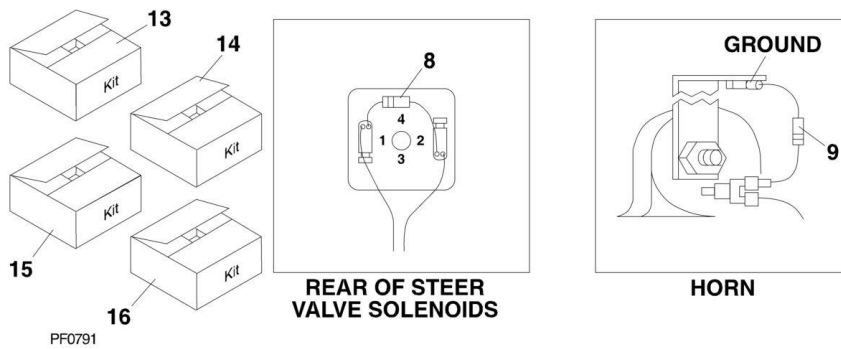
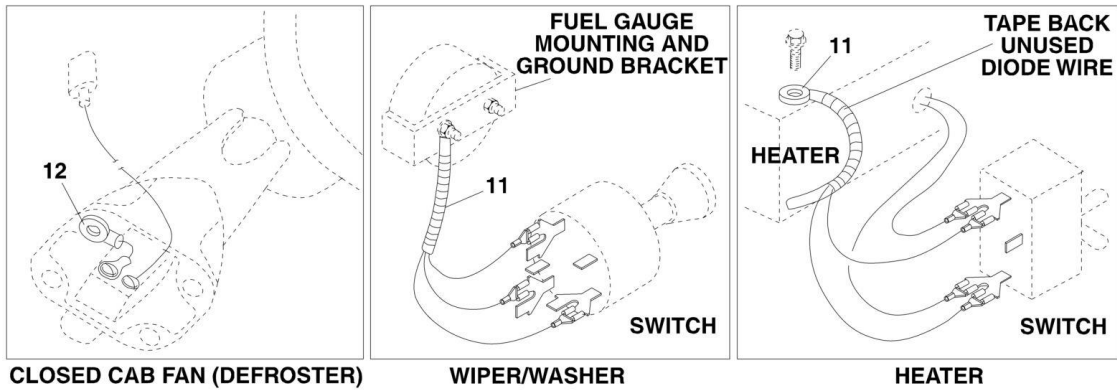
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	7087383	1	Electronic Joystick Assembly (Includes Items 1 thru 4)	
1	8224016	1	Joystick, Electronic 50	
2	7086762	2	Module, Driver	
3	7086752	1	Harness, Wiring	
4	7087361	2	Wire Assembly	
		Ref	KITS	
5	7091871	1	Kit, Test Cable For Pulsar Solenoid Valve	

SECTION 7 - ELECTRICAL

FIGURE 7-9. TLC WIRING



SECTION 7 - ELECTRICAL



SECTION 7 - ELECTRICAL

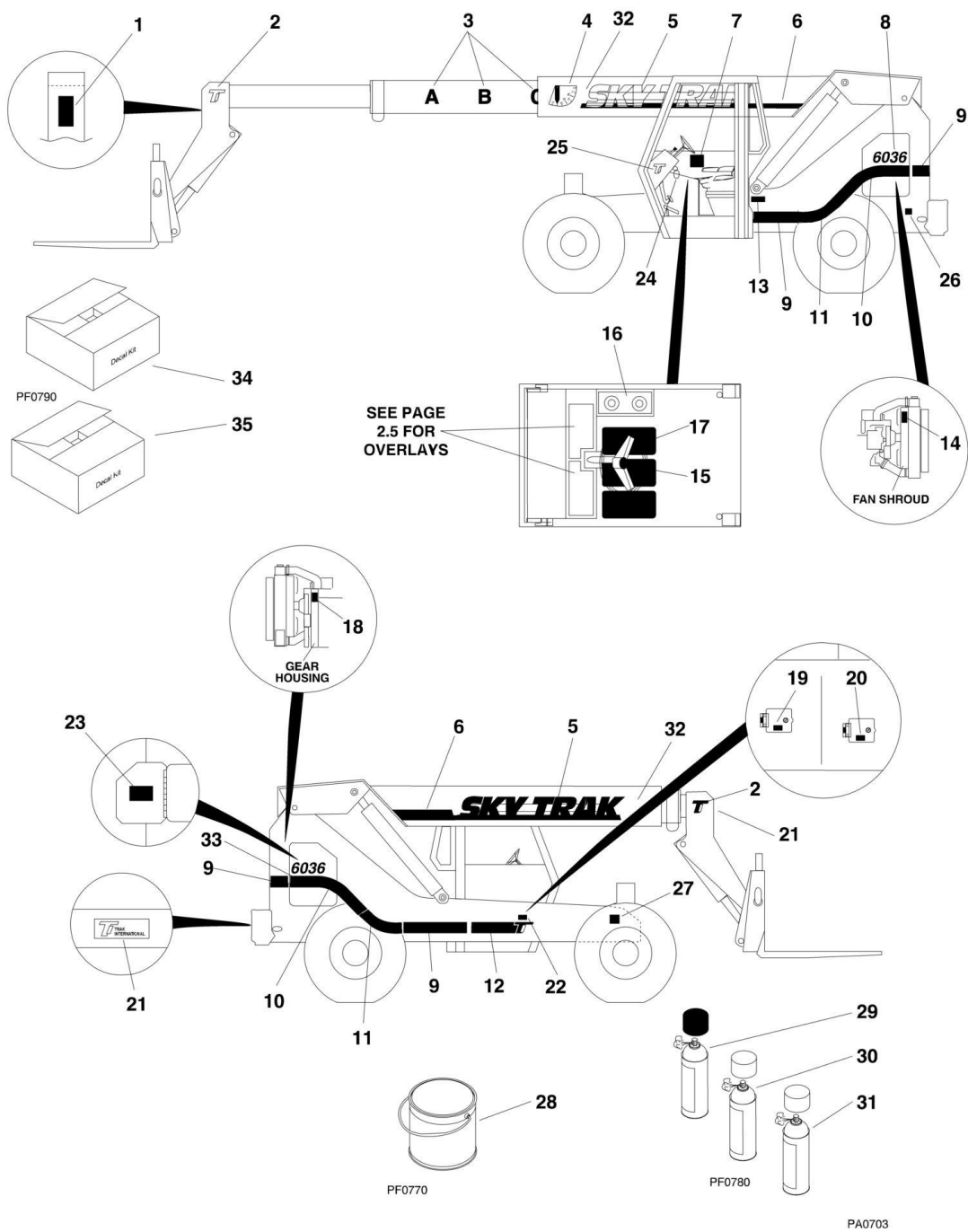
FIGURE 7-9. TLC WIRING

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7086772	1	Wire Harness	
2	8220060	1	Adapter	
3	7088232	1	Sensor, Vehicle Attitude	
4	7110922	1	Sensor, Boom Length (For inductive joysticks) (Not Shown)	
4	7088212	1	Sensor, Boom Length (For resistive joysticks)	
5	7088222	1	Sensor, Boom Angle	
6	7088122	1	Display Unit	
7	7088202	1	Horn,Signal	
8	7090051	2	Diode Assembly (See Kits)	
9	7090041	1	Diode Assembly (See Kits)	
10	7111762	1	Controller, Electronic (For inductive joysticks)	
10	7089712	1	Controller, Electronic (For resistive joysticks)	
11	7090191	2	Diode Assembly (See Kits)	
12	7090901	1	Diode Assembly (See Kits)	
		Ref	KITS	
13	7090141	1	Kit, TLC Diodes (Includes Items 8 & 9)	
14	7090922	1	Kit, TLC Diodes w/Optional Enclosed Cab Only (Includes Items 11 & 12)	
15	7091871	1	Kit, Test Cable For Pulsar Solenoid Valve	
16	7091881	1	Kit, Test Cable for TLC Sensors	

SECTION 8 - DECALS AND PAINT

SECTION 8 - DECALS AND PAINT

FIGURE 8-1. DECALS AND PAINT (Prior to SN 9B0500)



SECTION 8 - DECALS AND PAINT

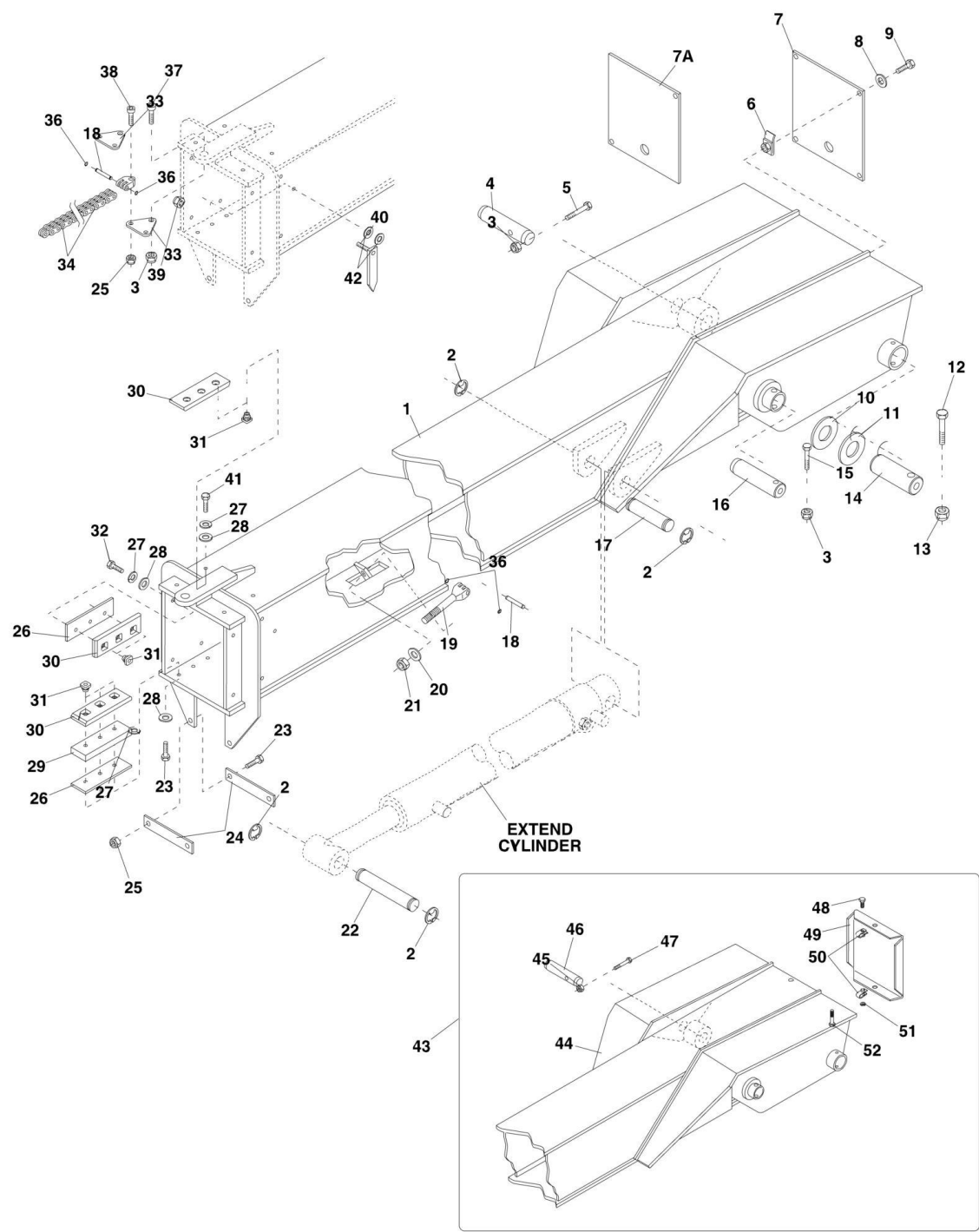
FIGURE 8-1. DECALS AND PAINT (Prior to SN 9B0500)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	4107452	1	Decal, Carrying Personnel	
1	4106991	1	Decal, Carrying Personnel (Export Only)	
2	4106781	2	Decal, "T I" Logo (Early Models)	
2	4108441	2	Decal, OmniQuip Logo (Late Models Not Shown)	
3	4106092	1	Decal, Boom, Extend Numbers (Prior to SN 1294)	
3	4107442	1	Decal, Boom, Extend Letters (SN 1294 to Present)	
4	4105262	1	Decal, Boom Angle	
5	4107283	2	Decal, SKY TRAK	
6	4107272	2	Decal, Boom Stripe	
7	4107542	1	Chart, Load Rating, 13.00 x 24, 10 ply	
7	4107552	1	Chart, Load Rating, 15.00 x 19.5, 12 ply	
8	4107492	2	Decal, "6036"	
9	4107232	2	Decal, Rear Stripe	
10	4107243	2	Decal, Upper Curve Stripe	
11	4107252	2	Decal, Lower Curve Stripe	
12	4107223	1	Decal, Stripe w/TI Logo	
13	4107402	1	Decal, Battery Warning	
14	4107412	2	Decal, Fan Warning	
14	4106981	2	Decal, Fan Warning (Export Only)	
15	4106681	1	Decal, Steering Wheel Logo (TI)	
16	4107462	1	Decal, Side Console	
17	7010491-OM	3	Safety Walk, 6 x 12	
18	4107901	1	Decal, Engine Idle	
19	4100181	1	Decal, Hydraulic Oil	
20	4105171	1	Decal, Diesel Fuel	
21	4106872	2	Decal, TRAK Logo	
22	4104291	1	Decal, Hydraulic Oil Level	
23	4106523	1	Decal, 6036 Lube Chart	
24	4102321	1	Ring, Key	
25	4106761	1	Decal, TI Logo (Export Only)	
26	4107651	1	Decal, Sound Level (Export Only)	
27	4107001	4	Decal, Hydrofill (Export Only)	
28	8528074	1 gl	Paint, Orange, Hi-Solids Alkyd (Service Repaint)	
29	8528071	1 cn	Paint, Orange, Hi-Solids Alkyd (16 oz spray - touchup)	
30	8528036	1 cn	Paint, Black, Gloss Enamel "Transport" (16 oz spray - touchup)	
31	8528040	1 cn	Paint, White, Gloss Enamel (16 oz spray - touchup)	
32	4106852	2	Decal, TLC Logo (Not Shown)	
33	4108172	2	Decal, Turbo	
		Ref	KITS	
34	7082921	1	Decal Kit, Complete Machine - Domestic (Prior to SN 1397)	
34	7099721	1	Decal Kit, Complete Machine - Domestic (SN 1397 to Present)	
35	7112381	1	Decal Kit, Complete Machine - Export	

SECTION 9 - BOOM AND ATTACHMENTS

SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-1. OUTER BOOM (Prior to SN 9B0500)



SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-1. OUTER BOOM (Prior to SN 9B0500)

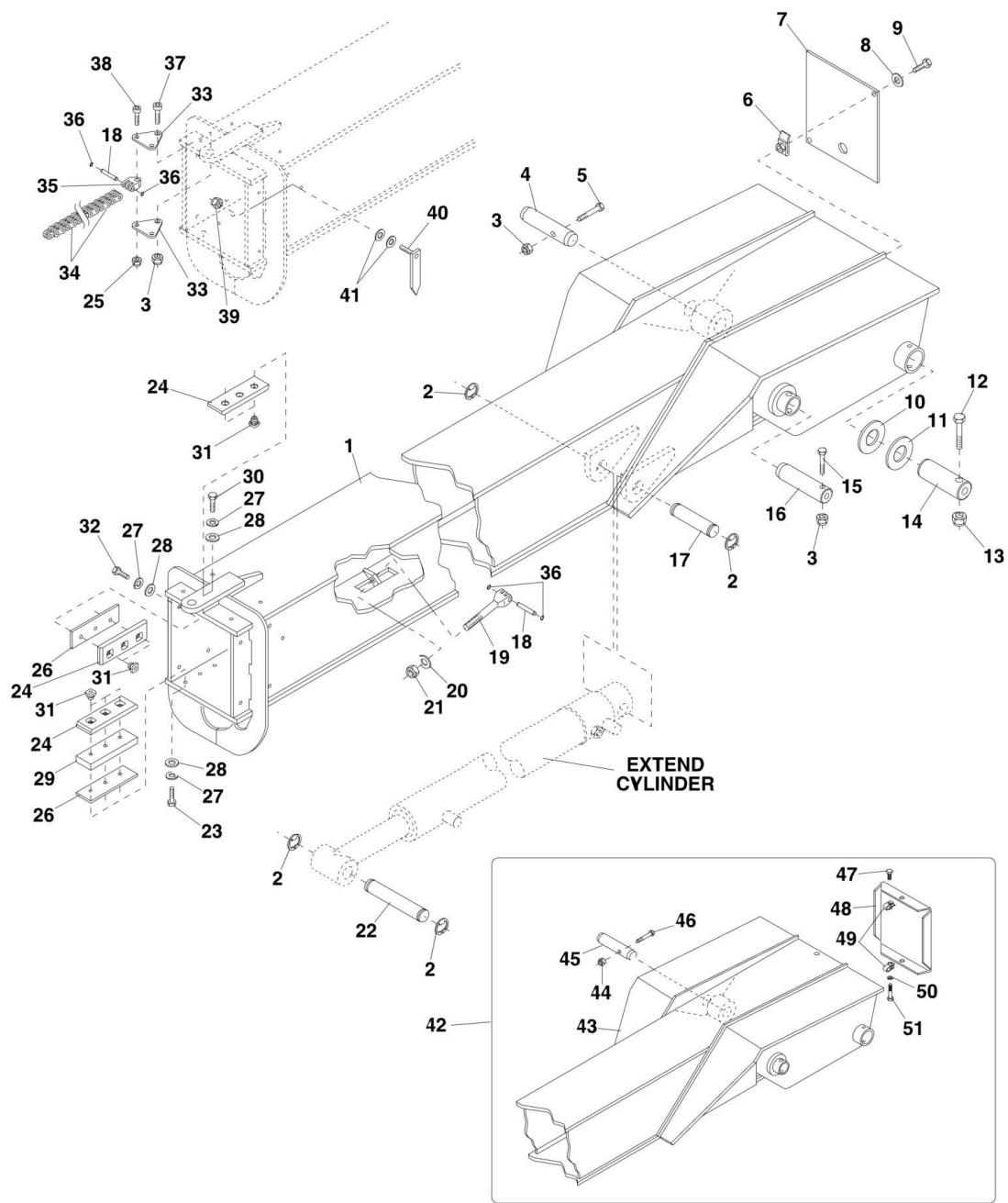
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7079904	NLA	Outer Boom (No Longer Available - Order Item 42 # 7116862) (Prior to SN 2515)	
2	8642234	4	Ring, Retaining	
3	8305644	4	Nut, Lock, 1/2-13	
4	7081612	1	Pin, Rod End, Slave Cylinder (Prior to SN 2515)	
5	8303772	1	Screw, Hex Hd Cap, 1/2-13 x 5 (Prior to SN 2515)	
6	8305906	2	Nut, Retaining, 5/16-18	
7	7083102	1	Cover, Rear Boom (4 mtg. holes)	
7A	7086452	1	Cover, Rear Boom (2 mtg. holes)	
8	8307106	4	Washer, Flat, 5/16	
9	8303697	4	Screw, Hex Hd Cap, 5/16-18 x 3/4	
10	8307916	2	Washer, Spacer, #14 Ga	
11	8307917	2	Washer, Spacer, #10 Ga	
12	8303655	2	Screw, Hex Hd Cap, 5/8-11 x 4-1/2	
13	8305643	2	Nut, Lock, 5/8-11	
14	7081532	2	Pin, Boom Pivot	
15	8303628	2	Screw, Hex Hd Cap, 1/2-13 x 3-3/4	
16	7081582	2	Pin, Rod End, Hoist Cylinder	
17	7081621	1	Pin, Base End, Boom Extend	
18	8124126	3	Pin	
19	7063472	1	Clevis, Chain	
20	8307104	1	Washer, Flat, 3/4	
21	8305646	1	Nut, Lock, 3/4-16	
22	7081631	1	Pin, Rod End, Boom Extend	
23	8303679	8	Screw, Hex Hd Cap, 3/8-16 x 1-3/4	
24	7080161	2	Bar, Anti-Buckle	
25	8305645	4	Nut, Lock, 3/8-16	
26	7082362	AR	Shim, Wear Pad, #10 Ga	
27	8307005	18	Lockwasher, 3/8	
28	8307204	18	Washer, Flat, 3/8	
29	7085442	2	Spacer, Wear Pad	
30	7111572	8	Wear Pad	
31	7082311	18	Insert, Wear Pad	
32	8303681	8	Screw, Hex Hd Cap, 3/8-16 x 3/4	
33	7089781	2	Yoke, Chain	
34	8127003	2	Chain, 219 Pitch x 164 -1/4	
35	7063482	2	Clevis, Chain	
36	8642237	6	Ring, Retaining	
37	8310020	1	Screw, Socket Hd, 1/2-13 x 1-1/2	
38	8310019	2	Screw, Socket Hd, 3/8-16 x 1-1/2	
39	8305647	1	Locknut	
40	7075611	1	Pointer	
41	8303738	4	Screw, Hex Hd Cap, 3/8-16 x 7/8	
42	8307113	2	Washer, Flat, 7/16	
43	7116862	1	Kit, Outer Boom (Includes Items 44 thru 52)	
44	7116844	1	Outer Boom	
45	8305643	1	Nut, Hex Lock Elastic, 5/8-11	
46	7116882	1	Pin, Slave Cylinder Rod	
47	8303666	1	HHCS, 5/8-11 x 5in	
48	8303697	1	HHCS, 5/16-18 x 3/4in	

SECTION 9 - BOOM AND ATTACHMENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
49	7116822	1	Cover, Rear Boom	
50	8305906	2	Nut, Retainer, 5/16-18	
51	8307004	1	Washer, Lock, 5/16in	
52	8303739	1	HHCS, 5/16-18 x 1-1/4	

SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-2. OUTER BOOM (SN 9B0500 to Present)



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SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-2. OUTER BOOM (SN 9B0500 to Present)

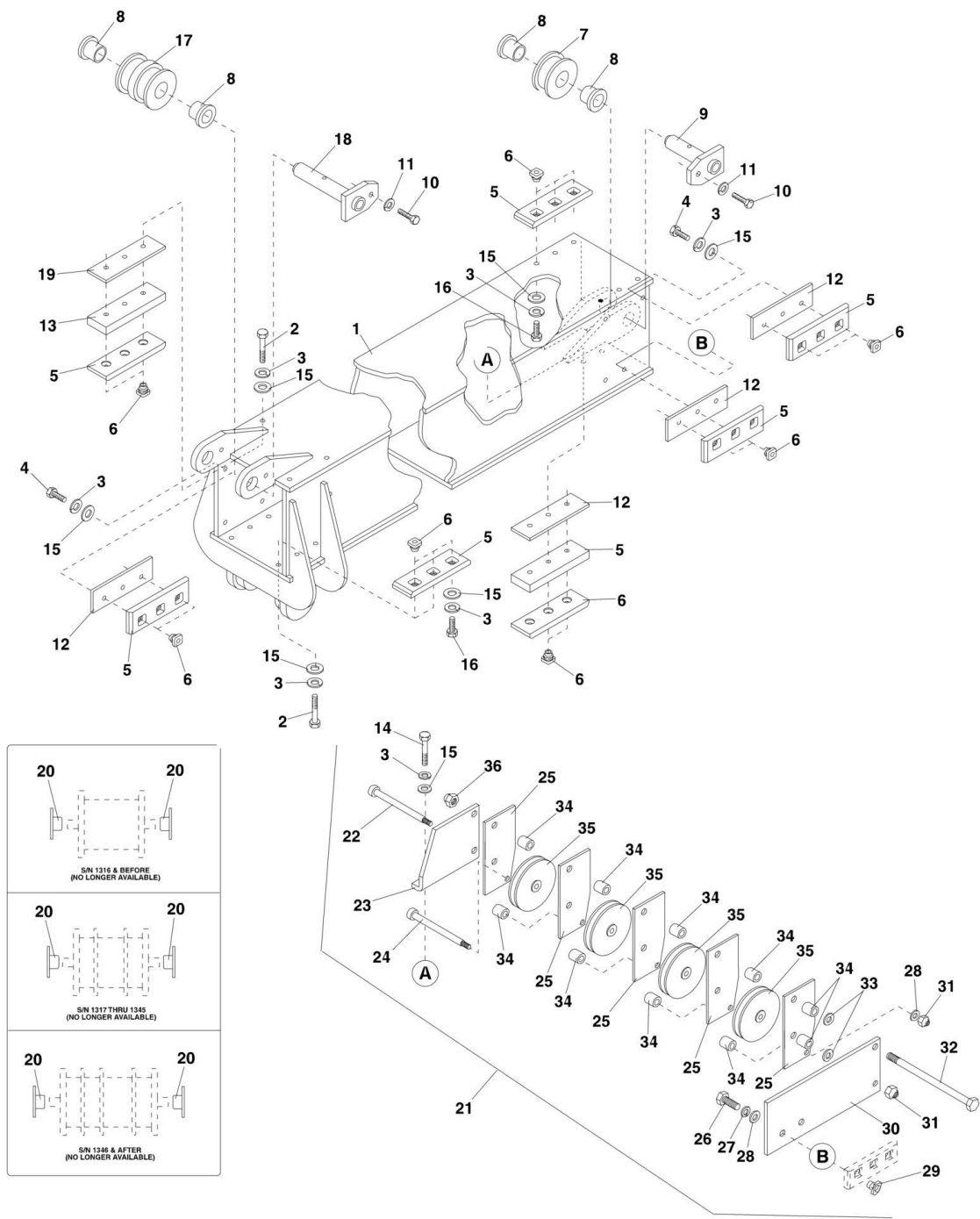
ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7079904	NLA	Outer Boom (No Longer Available - Order Item 42 # 7116862) (Prior to SN 2515)	
1	7116844	1	Outer Boom (SN 2516 to Present)	
2	8642234	4	Ring, Retaining	
3	8305644	4	Nut, Lock, 1/2-13	
4	7081612	1	Pin, Rod End, Slave Cylinder (Prior to SN 2515)	
4	7116882	1	Pin, Rod End, Slave Cylinder (SN 2516 to Present)	
5	8303772	1	Screw, Hex Hd Cap, 1/2-13 x 5 (Prior to SN 2515)	
5	8303666	1	Screw, Hex Hd Cap, 5/8-11 x 5 (SN 2516 to Present)	
6	8305906	2	Nut, Retaining, 5/16-18	
7	7086452	1	Cover, Rear Boom (Prior to SN 2515)	
7	7116822	1	Cover, Rear Boom (SN 2516 to Present)	
8	8307106	4	Washer, Flat, 5/16	
9	8303697	4	Screw, Hex Hd Cap, 5/16-18 x 3/4	
10	8307916	2	Washer, Spacer, #14 Ga	
11	8307917	2	Washer, Spacer, #10 Ga	
12	8303655	2	Screw, Hex Hd Cap, 5/8-11 x 4-1/2	
13	8305643	2	Nut, Lock, 5/8-11	
14	7081532	2	Pin, Boom Pivot	
15	8303628	2	Screw, Hex Hd Cap, 1/2-13 x 3-3/4	
16	7081582	2	Pin, Rod End, Hoist Cylinder	
17	7081621	1	Pin, Base End, Boom Extend	
18	8124126	3	Pin	
19	7063472	1	Clevis, Chain	
20	8307104	1	Washer, Flat, 3/4	
21	8305646	1	Nut, Lock, 3/4-16	
22	7081631	1	Pin, Rod End, Boom Extend	
23	8303679	6	Screw, Hex Hd Cap, 3/8-16 x 1-3/4	
24	7111572	8	Wear Pad	
25	8305645	2	Nut, Lock, 3/8-16	
26	7082362	AR	Shim, Wear Pad, #10 Ga	
27	8307005	18	Lockwasher, 3/8	
28	8307204	18	Washer, Flat, 3/8	
29	7085442	2	Spacer, Wear Pad	
30	8303738	4	Screw, Hex Hd Cap, 3/8-16 x 7/8	
31	7082311	18	Inset, Wear Pad	
32	8303681	8	Screw, Hex Hd Cap, 3/8-16 x 3/4	
33	7089781	2	Yoke, Chain	
34	8127003	2	Chain, 219 Pitch x 164-1/4	
35	7063482	2	Clevis, Chain	
36	8642237	6	Ring, Retaining	
37	8310020	1	Screw, Socket Hd, 1/2-13 x 1-1/2	
38	8310019	2	Screw, Socket Hd, 3/8-16 x 1-1/2	
39	8305647	1	Locknut	
40	7075611	1	Pointer	
41	8307113	2	Washer, Flat, 7/16	
42	7116862	1	Kit, Outer Boom (Includes items 43 thru 51)	
43	7116844	1	Outer Boom	
44	8305643	1	Nut, Hex Lock Elastic 5/8-11	
45	7116882	1	Pin, Slave Cylinder Rod	

SECTION 9 - BOOM AND ATTACHMENTS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
46	8303666	1	HHCS, 5/8-11 x 5in	
47	8303697	1	HHCS, 5/16-18 x 3/4in	
48	7116822	1	Cover, Rear Boom	
49	8305906	2	Nut, Retainer 5/16-18	
50	8307004	1	Washer, Lock 5/16in	
51	8303739	1	HHCS, 5/16-18 x 1-1/4	

SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-3. INTERMEDIATE BOOM



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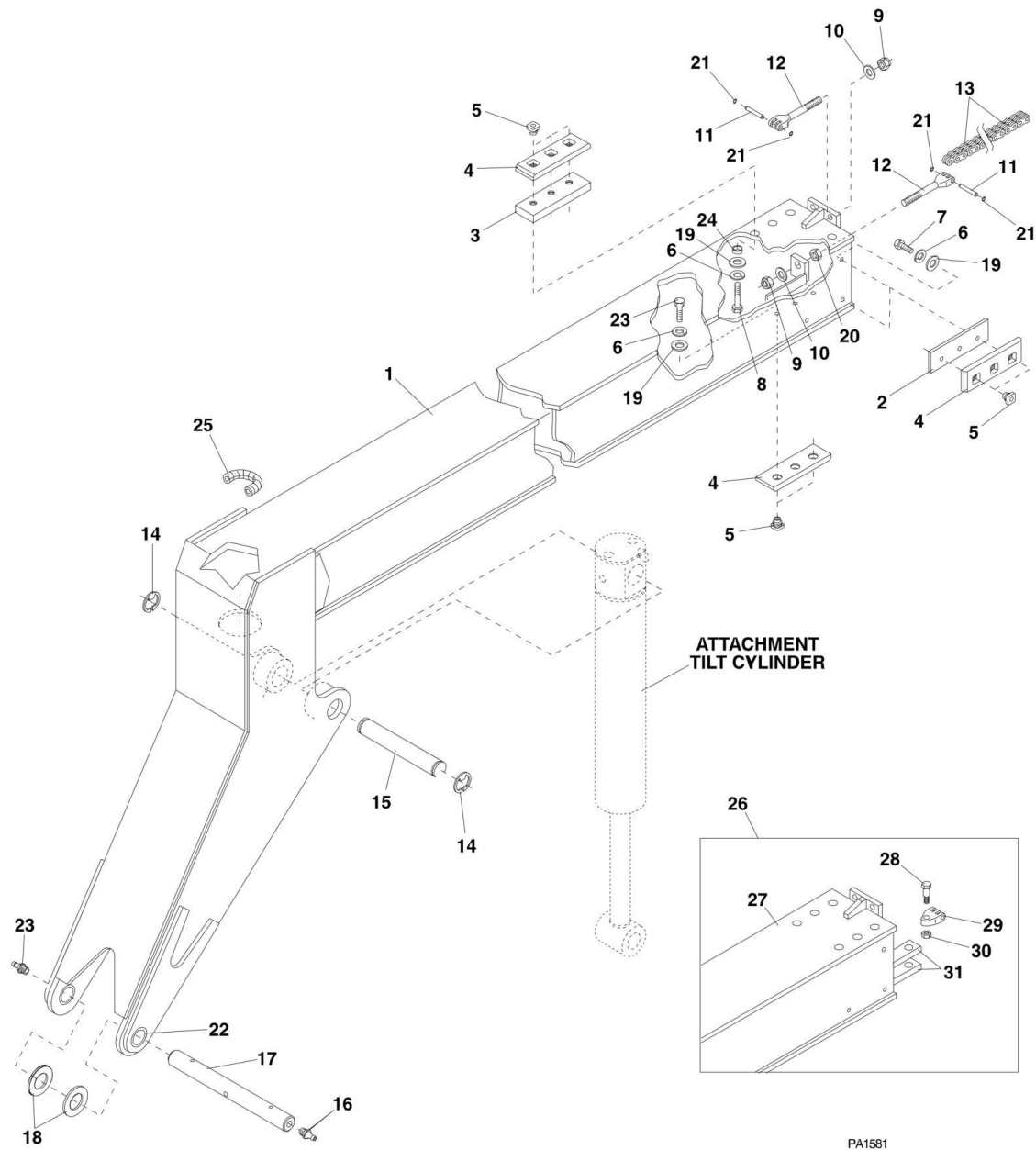
SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-3. INTERMEDIATE BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7080244	1	Intermediate Boom	
2	8303679	8	Screw, Hex Hd Cap, 3/8-16 x 1-3/4	
3	8307005	32	Lockwasher, 3/8	
4	8303681	14	Screw, Hex Hd Cap, 3/8-16 x 3/4	
5	7111572	15	Wear Pad	
6	7082311	34	Insert, Wear Pad	
7	7063462	1	Sheave, Retract Chain	
8	5906392	4	Bushing, Flange	
9	7082622	1	Pin, Sheave Chain	
10	8303624	2	Screw, Hex Hd Cap, 1/2-13 x 1.0	
11	8307007	2	Lockwasher, 1/2	
12	7082362	AR	Shim, Wear Pad, #10 Ga	
13	7085442	3	Spacer, Wear Pad	
14	8303657	2	Screw, Hex Hd Cap, 3/8-16 x 2	
15	8307204	32	Washer, Flat, 3/8	
16	8303738	8	Screw, Hex Hd Cap, 3/8-16 x 7/8	
17	7063452	1	Sheave, Extend Chain	
18	7063432	1	Pin, Chain Sheave	
19	7082342	AR	Shim, Wear Pad, #14 Ga	
20	8065214	2	Bearing, For Service of Obsolete Hose Pulleys	
21	7117182	1	Kit, Hose Pulley (Includes items 22 thru 36)	
22	8310235	1	Bolt, Shoulder, Hex Socket Hd. 1/2in Dia x 5in	
23	7116742	1	Bracket, R.H.	
24	8310245	1	Bolt, Shoulder, Hex Socket Hd. 1/2in Dia x 4in	
25	7116642	5	Divider	
26	8303681	2	HHSC, 3/8-16 x 3/4in	
27	8307005	2	Washer, Lock 3/8in	
28	8307204	3	Washer, Flat 3/8in	
29	7082311	2	Insert, Wear Pad	
30	7116752	1	Bracket, L.H.	
31	8305645	2	Nut, Hex Lock Elastic 3/8-16	
32	8310209	1	HHCS, 1/2-13 x 6	
33	8307206	2	Washer, Flat 1/2in Heavy	
34	7116691	10	Spacer	
35	7116812	4	Roller, Pulley	
36	8305644	1	Nut, Hex Lock Elastic 1/2-13	

SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-4. INNER BOOM



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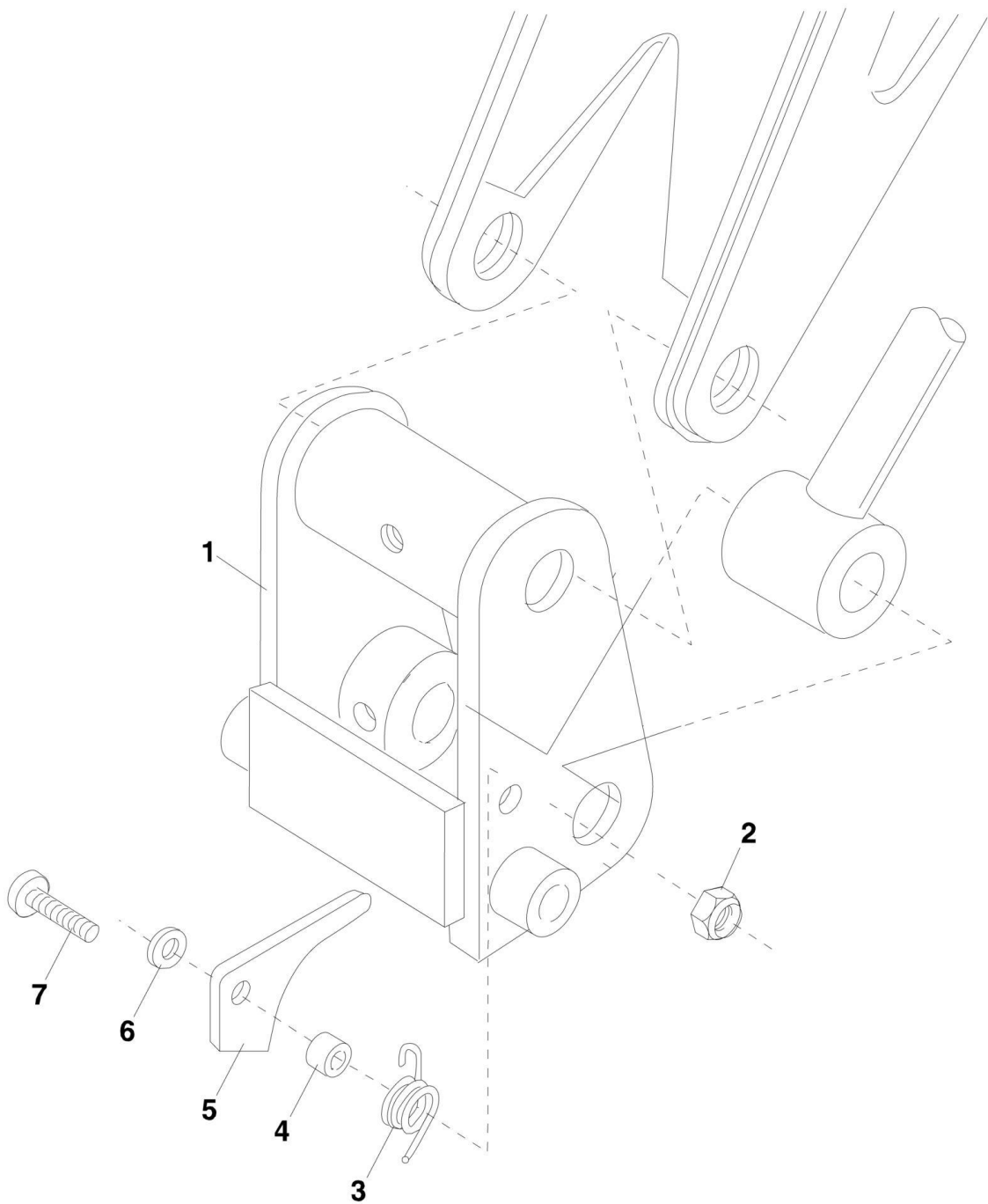
SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-4. INNER BOOM

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7116722	1	Inner Boom (SN 2516 to Present)	
2	7082362	AR	Shim, Wear Pad, #10 Ga	
3	7085442	2	Spacer, Wear Pad	
4	7111572	7	Wear Pad	
5	7082311	16	Insert, Wear Pad	
6	8307005	16	Lockwasher, 3/8	
7	8303681	8	Screw, Hex Hd Cap, 3/8-16 x 3/4	
8	8303679	6	Screw, Hex Hd Cap, 3/8-16 x 1-3/4	
9	8305646	3	Locknut, 3/4-16 ESNA	
10	8307104	3	Washer, Flat, 3/4	
11	8124126	3	Pin	
12	7063472	3	Clevis, Chain	
13	8127004	1	Chain, 171 Pitch x 128-1/4	
14	8642224	2	Ring, Retaining	
15	7081641	1	Pin, Base End, Attachment Tilt Cylinder	
16	8520001	2	Fitting, Grease, 1/8NPT	
17	7083922	1	Pin, Pivot, Quick Attach	
18	8307918	2	Washer, Spacer, 2.0 ID x 3.5 OD	
19	8307204	16	Washer, Flat, 3/8	
20	8305018	1	Locknut, 3/4-16	
21	8642237	6	Ring, Retaining	
22	7085542	2	Bushing, Quick Attach Pivot	
23	8303738	2	Screw, Hex Hd Cap, 3/8-16 x 7/8	
24	7096491	6	Spacer (SN 2516 to Present)	
25	82210011-0080	1	Conduit, 1/2 x 8	
26	7117192	1	Kit, Inner Boom(Includes Items 27 thru 30 and hose clamps shown on HYDRAULIC CIRCUITS SECTION) (Prior to SN 2516)	
27	7116722	1	Inner Boom w/Bushings (Includes item 22)	
28	8310019	1	Bolt, Shoulder, 1/2in Dia x 1-1/2in	
29	7063482	1	Clevis, Chain	
30	8305645	1	Nut, Hex Lock Elastic, 3/8-16	
31	7117031	2	Link	

SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-5. QUICK ATTACH



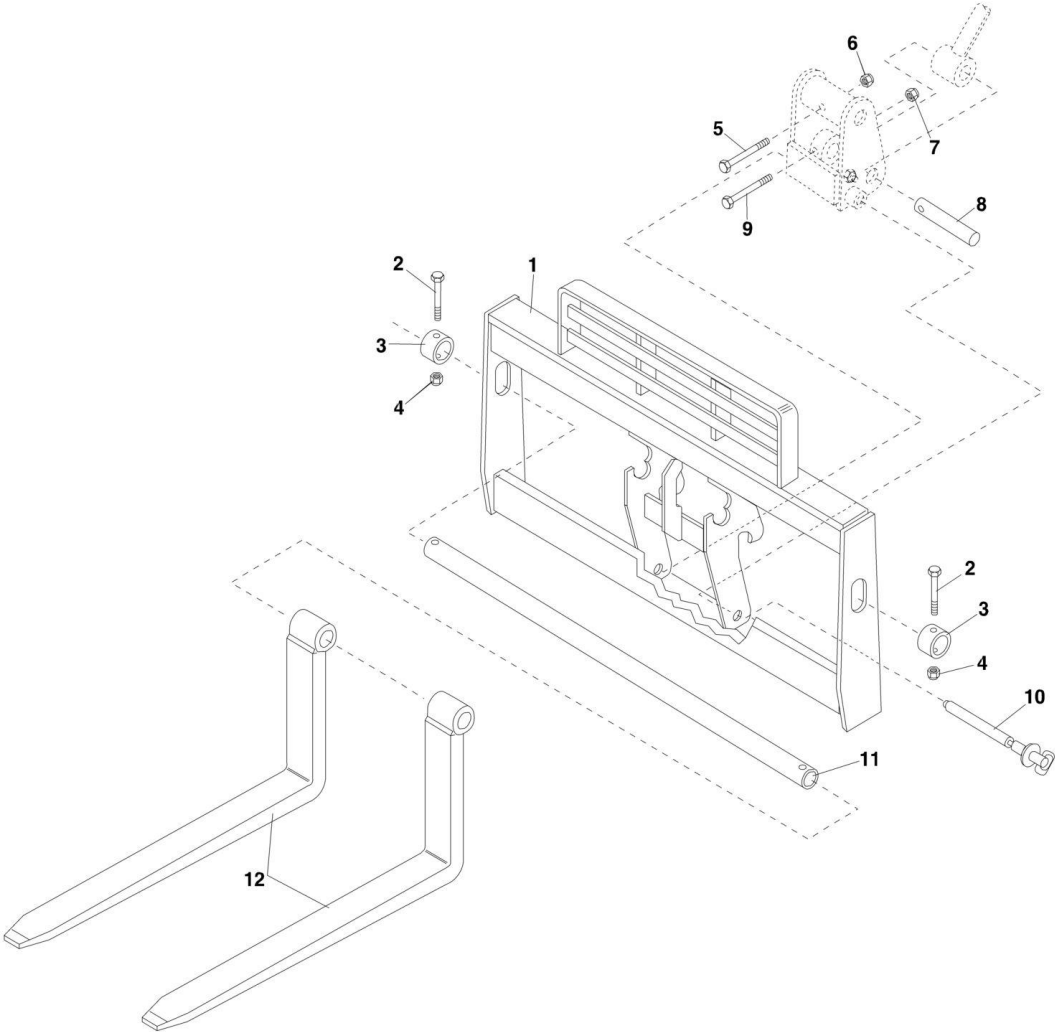
SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-5. QUICK ATTACH

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7083752	1	Quick Attach	
2	8305619	1	Locknut, 3/4-10	
3	7085552	1	Spring, Torsion	
4	7085571	1	Spacer	
5	7085562	1	Latch	
6	8307104	1	Washer, Flat	
7	8303638	1	Screw, Hex Hd Cap, 3/4-10 x 2-3/4	

SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-6. CARRIAGE 48IN (OPTIONAL)



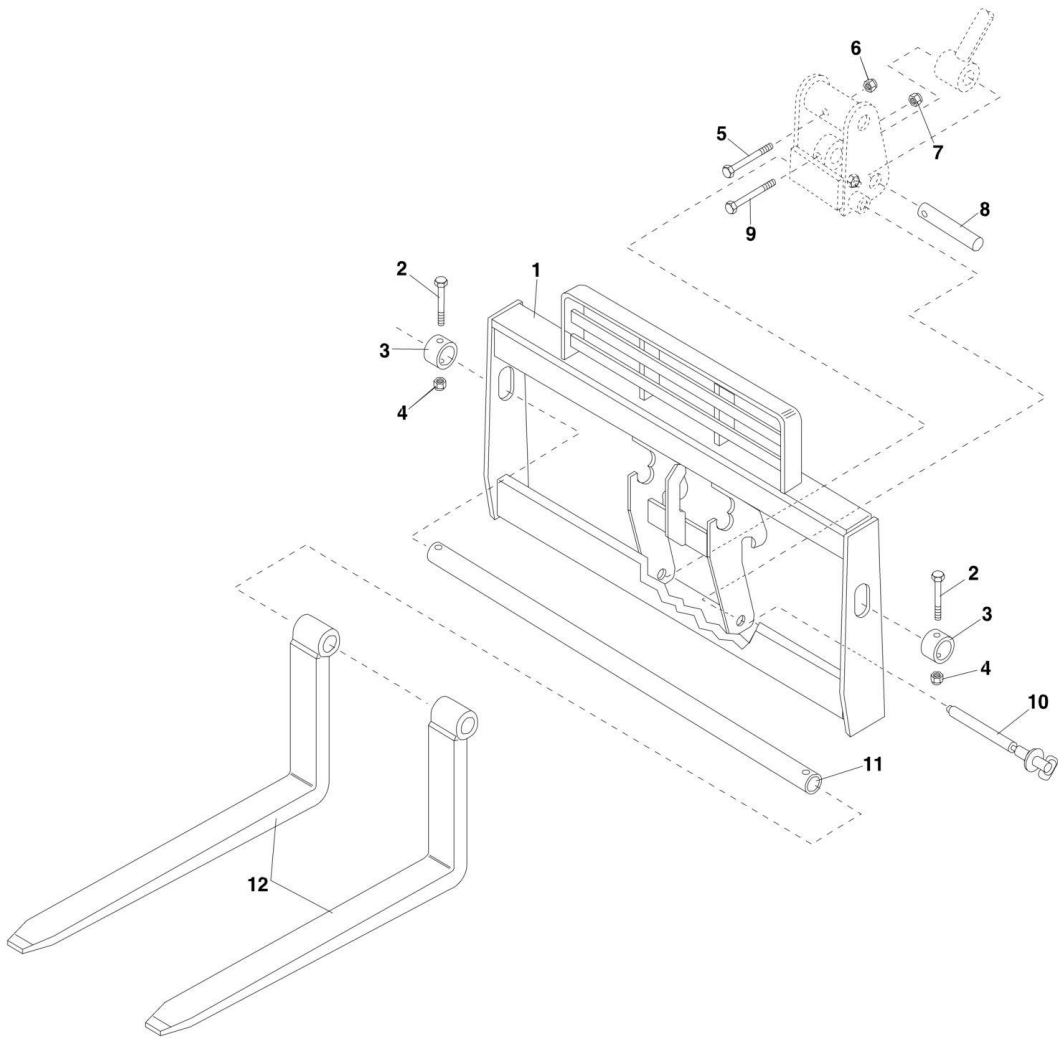
SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-6. CARRIAGE 48IN (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7083054	1	Carriage, 48in	
2	8303634	2	Screw, Hex Hd Cap, 5/8-11 x 4	
3	7086471	2	Collar	
4	8305643	2	Locknut, 5/8-11	
5	8303666	1	Screw, Hex Hd Cap, 5/8-11 x 5	
6	8305643	1	Locknut, 5/8-11	
7	8305644	1	Locknut, 1/2-13	
8	7083992	1	Pin, Rod End, Fork Cylinder	
9	8303772	1	Screw, Hex Hd Cap, 1/2-13 x 5	
10	7087002	1	Pin, Lock	
11	7083912	1	Shaft	
12	7048233	2	Fork, Pallet 48 x 4	

SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-7. CARRIAGE 60 IN (OPTIONAL)



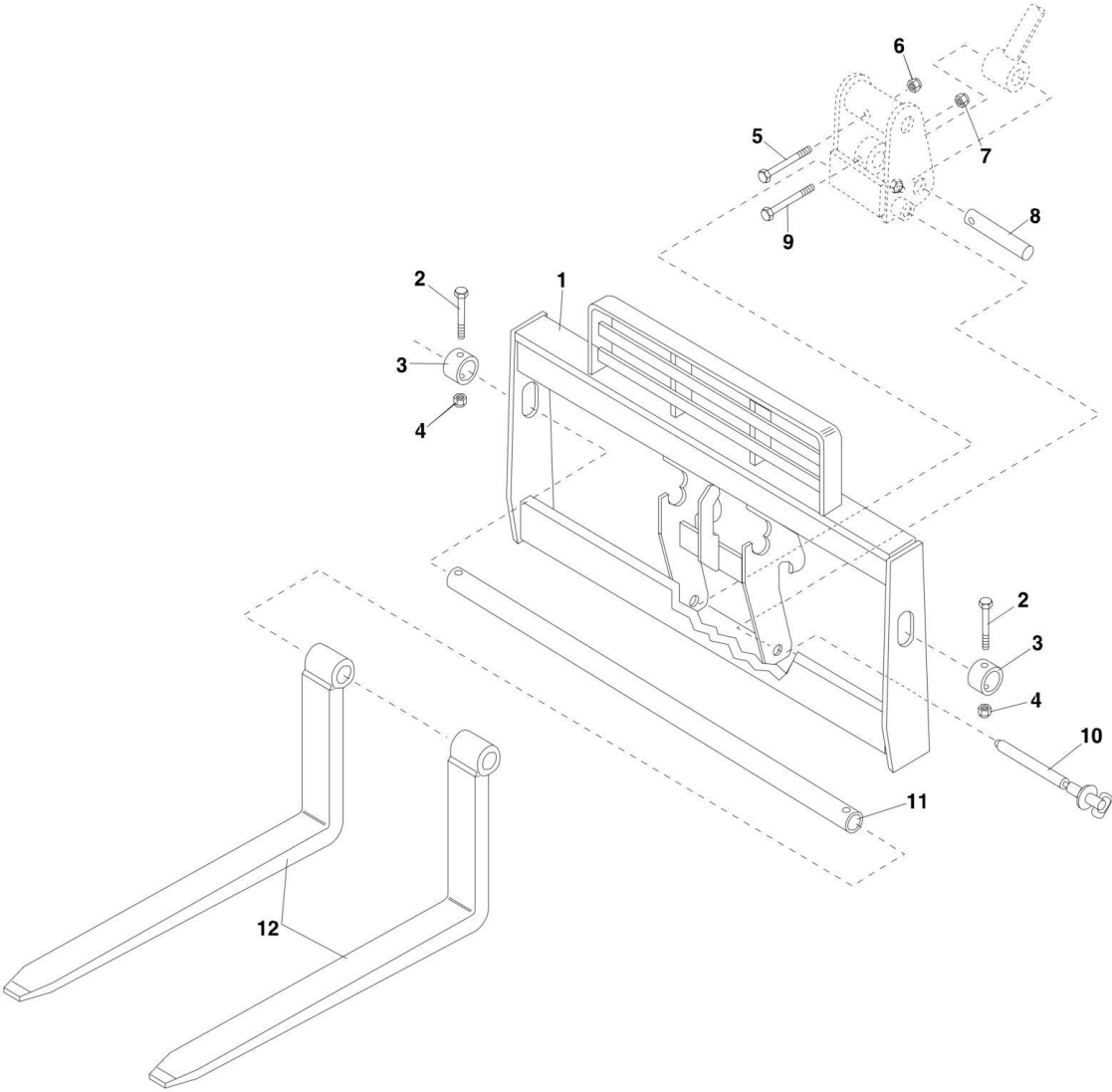
SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-7. CARRIAGE 60 IN (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7086304	1	Carriage, 60in	
2	8303634	2	Screw, Hex Hd Cap, 5/8-11 x 4	
3	7086471	2	Collar	
4	8305643	2	Locknut, 5/8-11	
5	8303666	1	Screw, Hex Hd Cap, 5/8-11 x 5	
6	8305643	1	Locknut, 5/8-11	
7	8305644	1	Locknut, 1/2-13	
8	7083992	1	Pin, Rod End, Fork Cylinder	
9	8303772	1	Screw, Hex Hd Cap, 1/2-13 x 5	
10	7087002	1	Pin, Lock	
11	7084972	1	Shaft	
12	7048233	2	Fork, Pallet 48 x 4 (3000 lb)	
12	7092793	2	Fork, Lumber 60 x 5 (Not Shown) (3000 lb)	
12	7085073	6	Fork, Block (Not Shown) (1900 lb)	

SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-8. CARRIAGE 72IN (OPTIONAL)



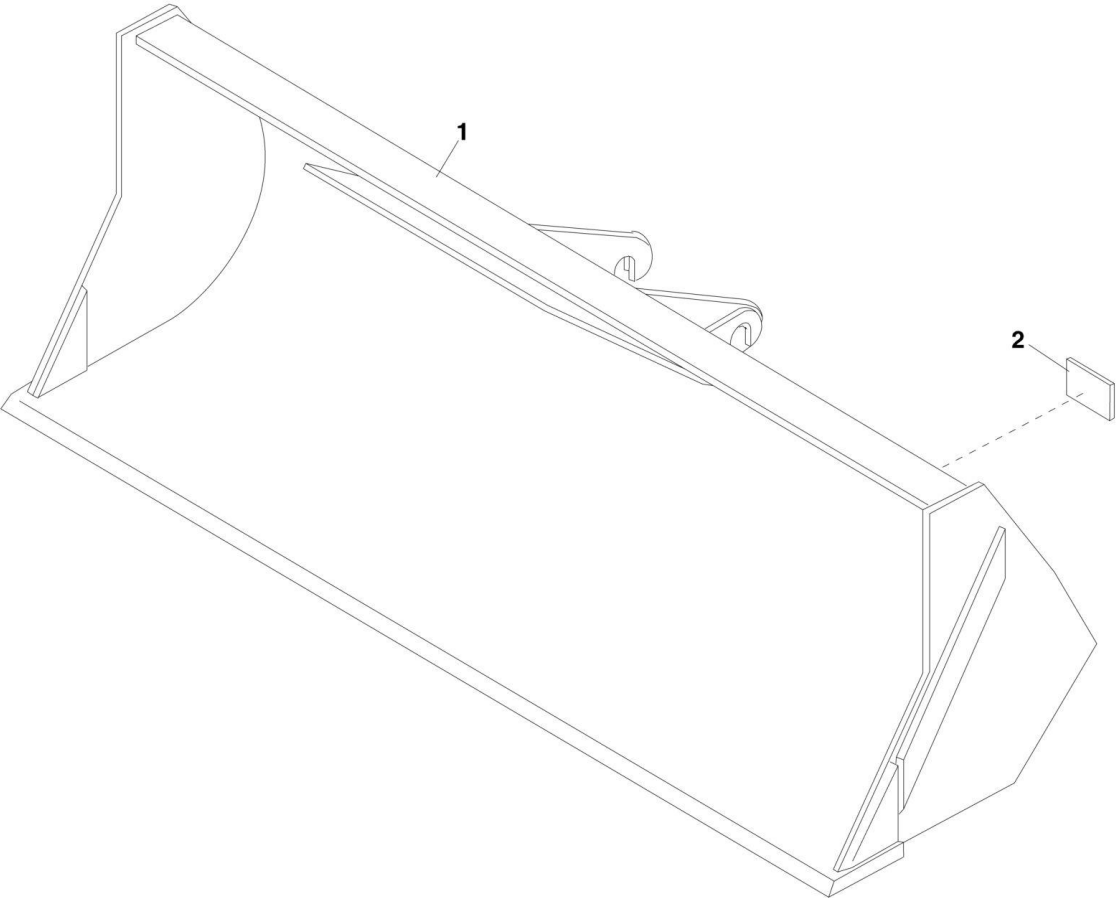
SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-8. CARRIAGE 72IN (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7090814	1	Carriage, 72in	
2	8303634	2	Screw, Hex Hd Cap, 5/8-11 x 4	
3	7086471	2	Collar	
4	8305643	2	Locknut, 5/8-11	
5	8303666	1	Screw, Hex Hd Cap, 5/8-11 x 5	
6	8305643	1	Locknut, 5/8-11	
7	8305644	1	Locknut, 1/2-13	
8	7083992	1	Pin, Rod End, Fork Cylinder	
9	8303772	1	Screw, Hex Hd Cap, 1/2-13 x 5	
10	7087002	1	Pin, Lock	
11	7084942	1	Shaft	
12	7048233	2	Fork, Pallet 48 x 4 (3000 lb)	
12	7092793	2	Fork, Lumber 60 x 5 (Not Shown) (3000 lb)	
12	7085073	6	Fork, Block (Not Shown) (1900 lb)	

SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-9. UTILITY BUCKET (OPTIONAL)



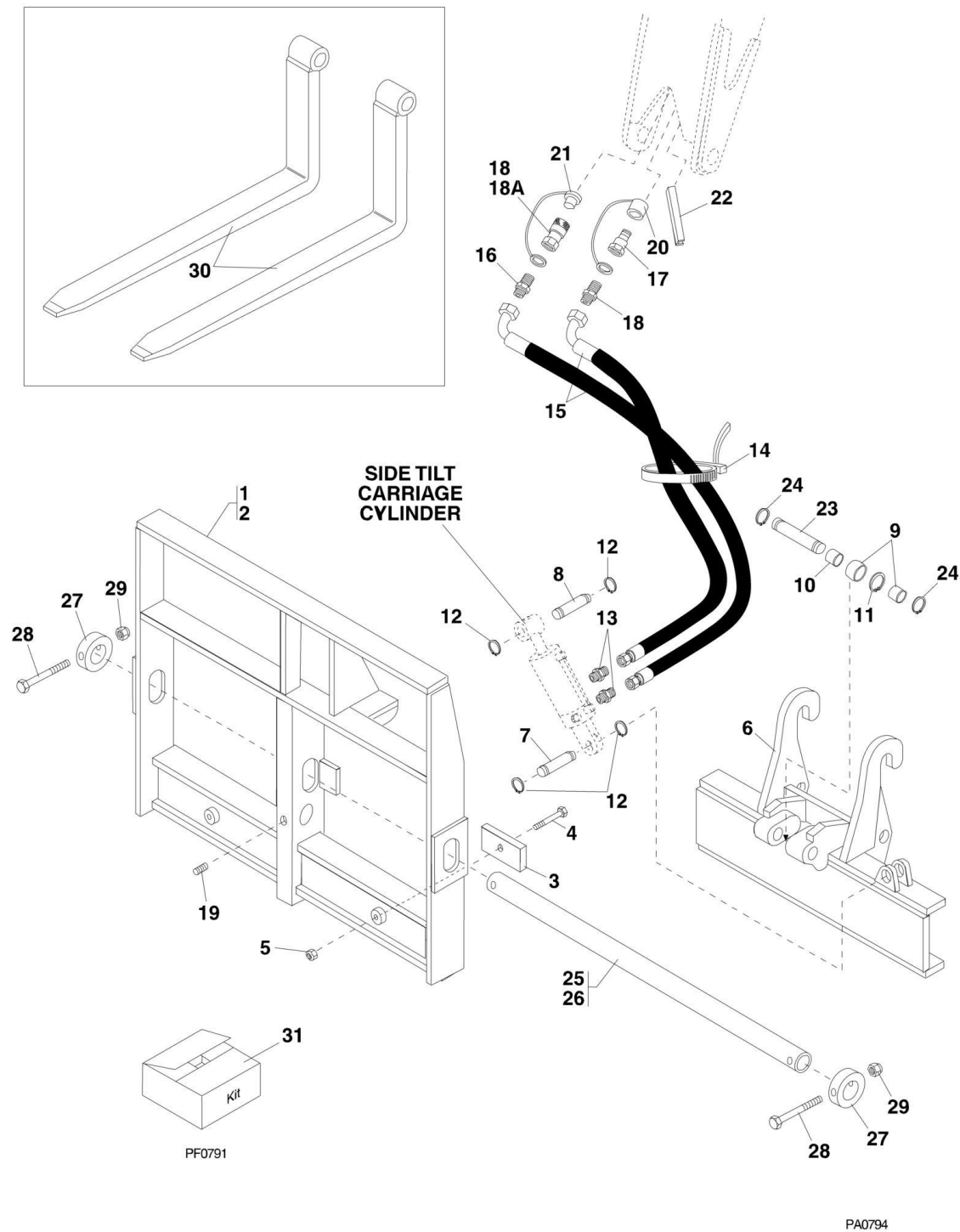
SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-9. UTILITY BUCKET (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7110744	1	Bucket, Utility, 1-1/4 cu yd (Includes Item 2)	
2	4106561	1	Plate, Capacity	

SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-10. SIDE TILT CARRIAGE - OPTIONAL PIVOT PIN WITH SNAP RINGS (Prior to SN 9B0473)



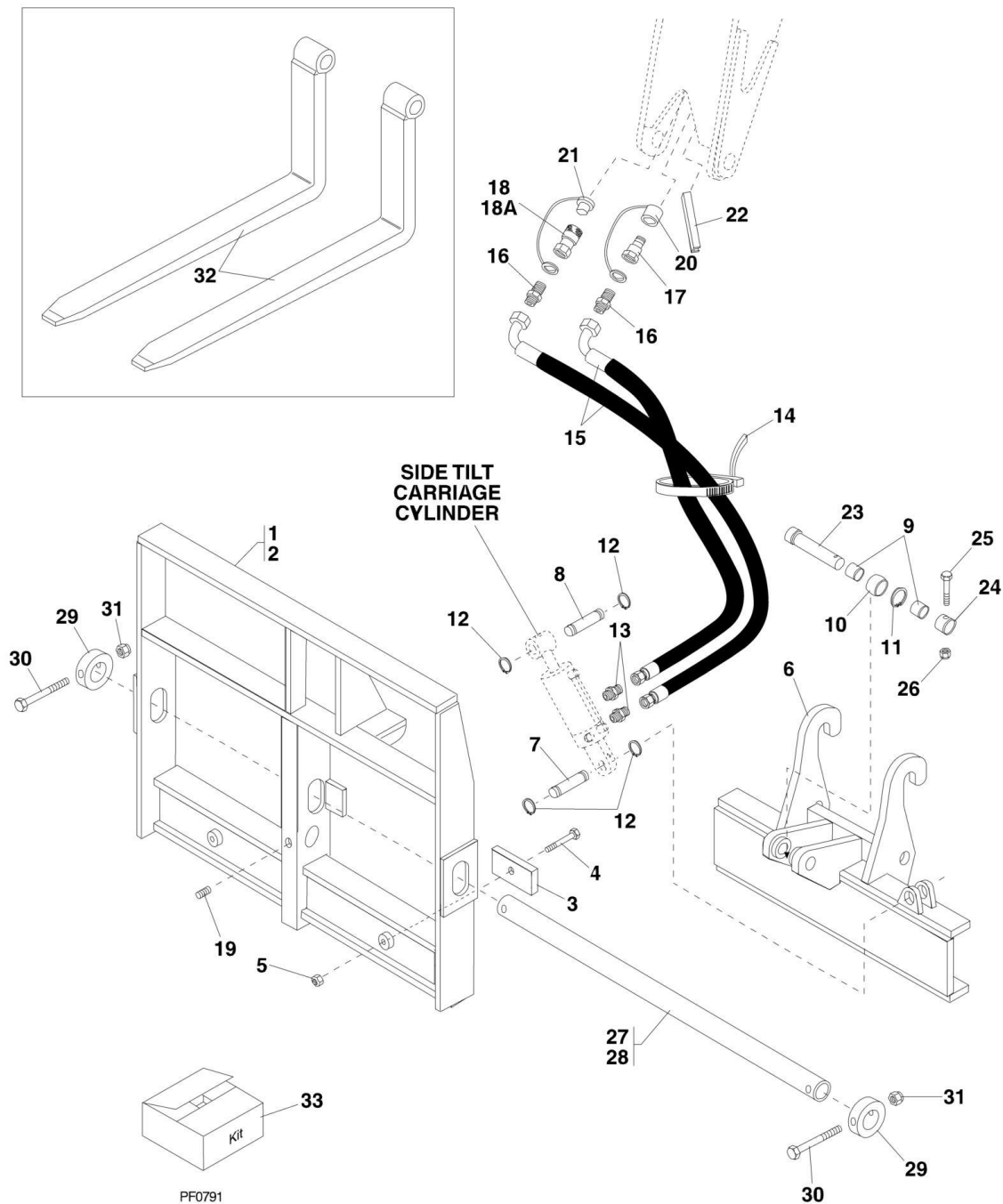
SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-10. SIDE TILT CARRIAGE - OPTIONAL PIVOT PIN WITH SNAP RINGS (Prior to SN 9B0473)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7077344	1	Carriage, Side Tilt - 48in (Includes Items 3 thru 5)	
2	7077444	1	Carriage, Side Tilt - 60in (Includes Items 3 thru 5)	
3	7065482	2	Pad Wear	
4	8303739	2	Screw, Hex Hd Cap, 5/16-18 x 1-1/4	
5	8305626	2	Locknut, 5/16-18	
6	7086894	1	Base, Pivot	
7	7077501	1	Pin, Cylinder Base	
8	7077511	1	Pin, Cylinder Rod	
9	7077481	2	Spacer	
10	8065634	1	Bushing, Self Align	
11	8642001	1	Ring, Snap	
12	8642235	4	Ring, Snap	
13	8760117	2	Connector, Straight, SAE 6-6 - male JIC x male str. thd. O-ring	
14	8584001	1	Tie Wrap	
15	2711992	2	Hose Assembly	
16	8760030	2	Connector, Straight, SAE 6-6P - male JICx male NPT	
17	8420056	1	Quick Disconnect, Male 6/6in NPT	
18	8420057	1	Quick Disconnect, Female 6/6in NPT (Includes Item 18A)	
18A	8640027	1	O-Ring, Viton For High Temp. Application of Item 18	
19	8541433	1	Plug, Pipe Hex, Socket, 1/8	
20	8420058	1	Cap, Dust, SAE 6	
21	8420059	1	Plug, Dust, SAE 6	
22	8582406-0090	1	Moulding	
23	7080231	1	Pin, Pivot	
24	8642207	2	Ring, Snap	
25	7075942	1	Shaft, Fork Pivot, 48 x 2.75in	
26	7075952	1	Shaft, Fork Pivot, 60 x 2.75in (Not Shown)	
27	7079251	2	Collar, Locking	
28	8303629	2	Screw, Hex Hd Cap, 1/2-13 x 4-1/2	
29	8305644	2	Locknut, 1/2-13	
30	7069093	2	Fork, Pallet, 48 x 4 x 1.75in (3000 lb Rating)	
30	7077333	2	Fork, Lumber 60 x 7 (Not Shown)	
30	7070623	6	Fork, Blocking (Not Shown)	
		Ref	KITS	
31	7096712	1	Conversion Kit, Attachment, Size 6 to Size 8 Quick Couplers (Includes Items 17, 18, 19, 21 & 22, See INNER BOOM and P/N 8760341 below for Auger Mount to replace corresponding parts on these attachments)	

SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-11. SIDE TILT CARRIAGE - OPTIONAL PIVOT PIN WITH LOCK COLLAR (Prior to SN 9B0473)



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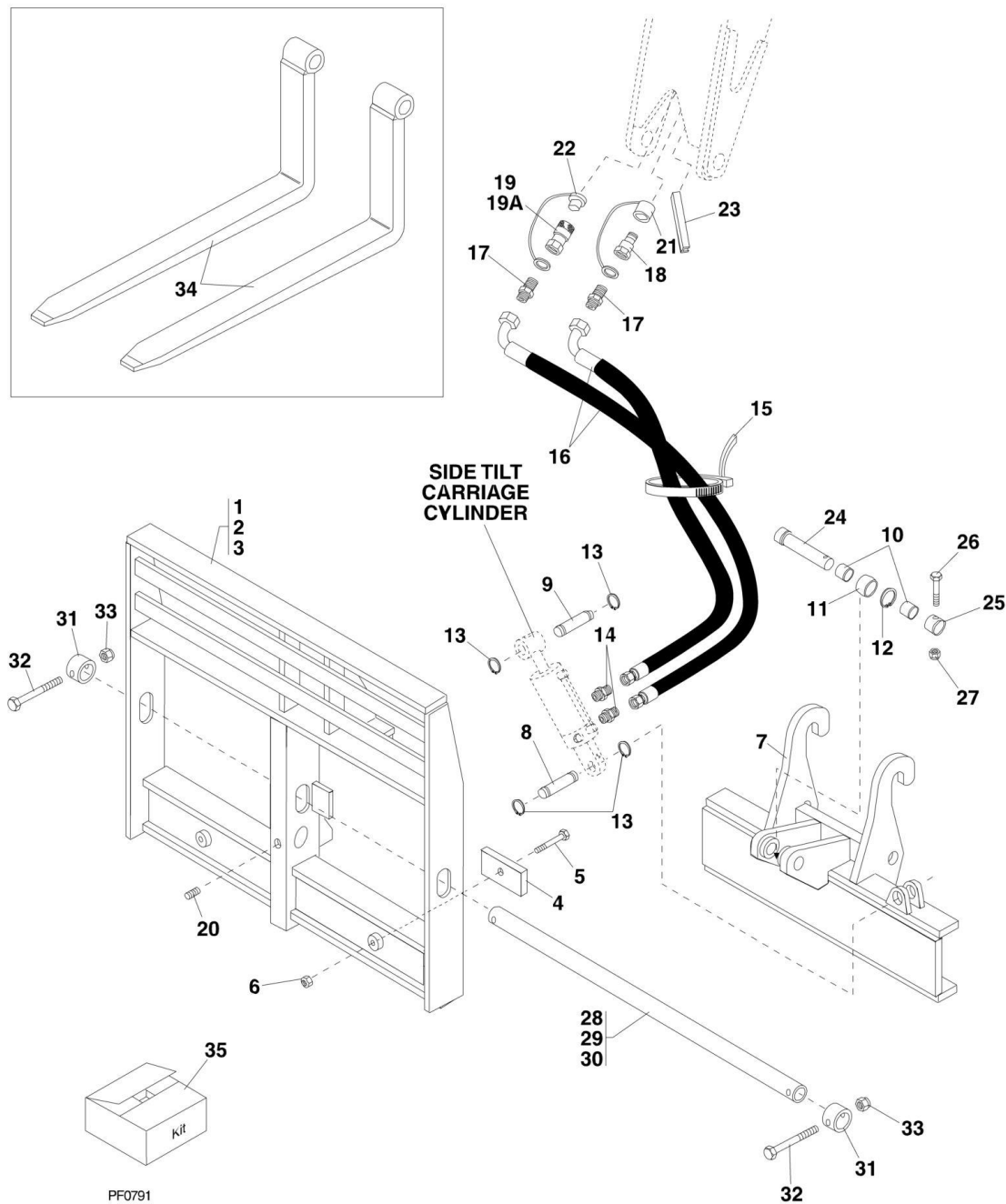
SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-11. SIDE TILT CARRIAGE - OPTIONAL PIVOT PIN WITH LOCK COLLAR (Prior to SN 9B0473)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7077344	1	Carriage, Side Tilt - 48in (Includes Itmes 3 thru 5)	
2	7077444	1	Carriage, Side Tilt - 60in (Includes Items 3 thru 5)	
3	7065482	2	Pad Wear	
4	8303739	2	Screw, Hex Hd Cap, 5/16-18 x 1-1/4	
5	8305626	2	Locknut, 5/16NC	
6	7085154	1	Base, Pivot	
7	7077501	1	Pin, Cylinder Base	
8	7077511	1	Pin, Cylinder Rod	
9	7077481	2	Spacer	
10	8065634	1	Bushing, Self Align	
11	8642001	1	Ring, Snap	
12	8642235	4	Ring, Snap	
13	8760117	2	Connector, Straight, SAE 6-6 - male JIC x male str. thd. O-ring	
14	8584001	1	Tie Wrap	
15	2711992	2	Hose Assembly	
16	8760030	2	Connector, Straight, SAE 6-6P - male JIC x male NPT	
17	8420056	1	Quick Disconnect, Male 6/6in NPT	
18	8420057	1	Quick Disconnect, Female 6/6in NPT (Includes Item 18A)	
18A	8640027	1	O-Ring, Viton For High Temp. Application of Item 18	
19	8541433	1	Plug, Pipe Hex, Socket, 1/8	
20	8420058	1	Cap, Dust, SAE 6	
21	8420059	1	Plug, Dust, SAE 6	
22	8582406-0090	1	Moulding	
23	7085411	1	Pin, Pivot	
24	7085501	1	Collar, Locking Pin	
25	8303770	1	Screw, Hex Hd Cap, 3/8-16 x 2-3/4	
26	8305645	1	Locknut, 3/8-16 ESNA	
27	7075942	1	Shaft, Fork Pivot, 48 x 2.75in	
28	7075952	1	Shaft, Fork Pivot, 60 x 2.75in (Not Shown)	
29	7079251	2	Collar, Locking	
30	8303629	2	Screw, Hex Hd Cap, 1/2-13 x 4-1/2	
31	8305644	2	Locknut, 1/2-13	
32	7069093	2	Fork, Pallet 48 x 4 x 1.75in (3000 lb Rating)	
32	7077333	2	Fork, Lumber 60 x 7 (Not Shown)	
32	7070623	6	Fork, Blocking (Not Shown)	
		Ref	KITS	
33	7096712	1	Conversion Kit, Attachment, Size 6 to Size 8 Quick Couplers (Includes Items 17, 18, 19, 21 & 22, See INNER BOOM and P/N 8760341 below for Auger Mount to replace corresponding parts on these attachments)	

SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-12. SIDE TILT CARRIAGE - OPTIONAL (SN 9B0473 through 1316)



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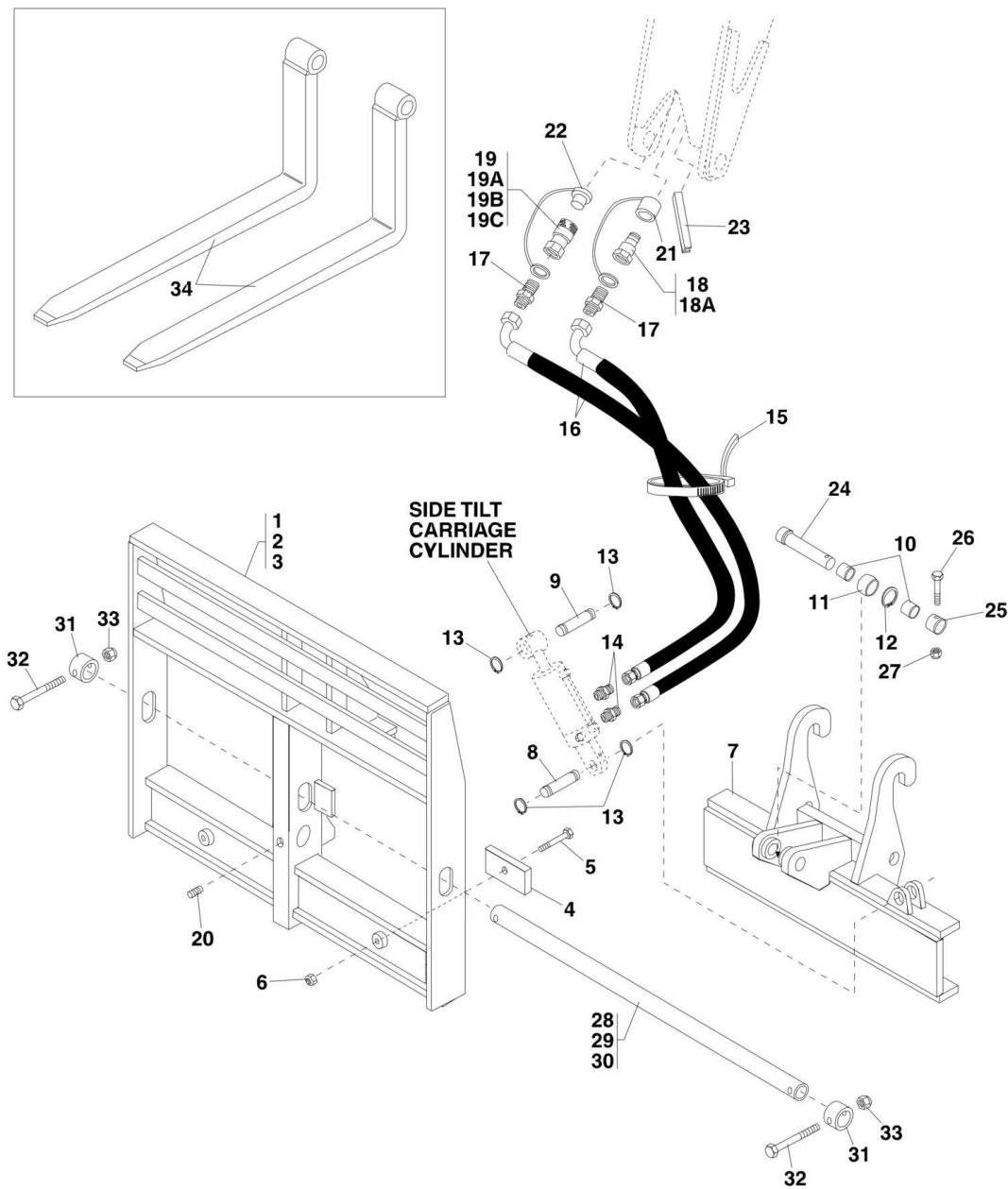
SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-12. SIDE TILT CARRIAGE - OPTIONAL (SN 9B0473 through 1316)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7089044	1	Carriage, Side Tilt - 48in	
2	7089054	1	Carriage, Side Tilt - 60in	
3	7098354	1	Carriage, Side Tilt - 72in	
4	7065482	2	Pad Wear	
5	8303739	2	Screw, Hex Hd Cap, 5/16-18 x 1-1/4	
6	8305626	2	Locknut, 5/16NC	
7	7085154	1	Base, Pivot	
8	7077501	1	Pin, Cylinder Base	
9	7077511	1	Pin, Cylinder Rod	
10	7077481	2	Spacer	
11	8065634	1	Bushing, Self Align	
12	8642001	1	Ring, Snap	
13	8642235	4	Ring, Snap	
14	8760117	2	Connector, Straight, SAE 6-6 - male JIC x male str. thd. O-ring	
15	8584001	1	Tie Wrap	
16	2711992	2	Hose Assembly	
17	8760030	2	Connector, Straight, SAE 6-6P - male JIC x male NPT	
18	8420056	1	Quick Disconnect, Male 6/6in NPT	
19	8420057	1	Quick Disconnect, Female 6/6in NPT (Includes Item 18A)	
19A	8640027	1	O-Ring, Viton For High Temp. Application of Item 18	
20	8541433	1	Plug, Pipe Hex, Socket, 1/8	
21	8420058	1	Cap, Dust, SAE 6	
22	8420059	1	Plug, Dust, SAE 6	
23	8582406-0090	1	Moulding	
24	7085411	1	Pin, Pivot	
25	7085501	1	Collar, Locking Pin	
26	8303770	1	Screw, Hex Hd Cap, 3/8-16 x 2-3/4	
27	8305645	1	Locknut, 3/8-16 ESNA	
28	7083912	1	Shaft, Fork Pivot, 48 x 2.00in	
29	7084972	1	Shaft, Fork Pivot, 60 x 2.00in (Not Shown)	
30	7084942	1	Shaft, Fork Pivot, 72 x 2.00in (Not Shown)	
31	7086471	2	Hub, Lock	
32	8303634	2	Screw, Hex Hd Cap, 5/8-11 x 4	
33	8305643	2	Locknut, 5/8-11	
34	7048233	2	Fork, Pallet 48 x 4 x 1.75in 3000lb Rating)	
34	7085673	2	Fork, Lumber 60 x 5 (Not Shown) (22in Fork Drop)	
34	7092793	2	Fork, Lumber 60 x 5 (Not Shown) (24in Fork Drop) (Service in Pairs when replaicing 22in drop forks)	
34	7085073	6	Fork, Blocking (Not Shown)	
		Ref	KITS	
35	7096712	1	Conversion Kit, Attachment, Size 6 to Size 8 Quick Couplers (Includes Items 17, 18, 19, 21 & 22, See INNER BOOM and P/N 8760341 below for Auger Mount to replace corresponding parts on these attachments)	

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FIGURE 9-13. SIDE TILT CARRIAGE - OPTIONAL (SN 1317 to Present)



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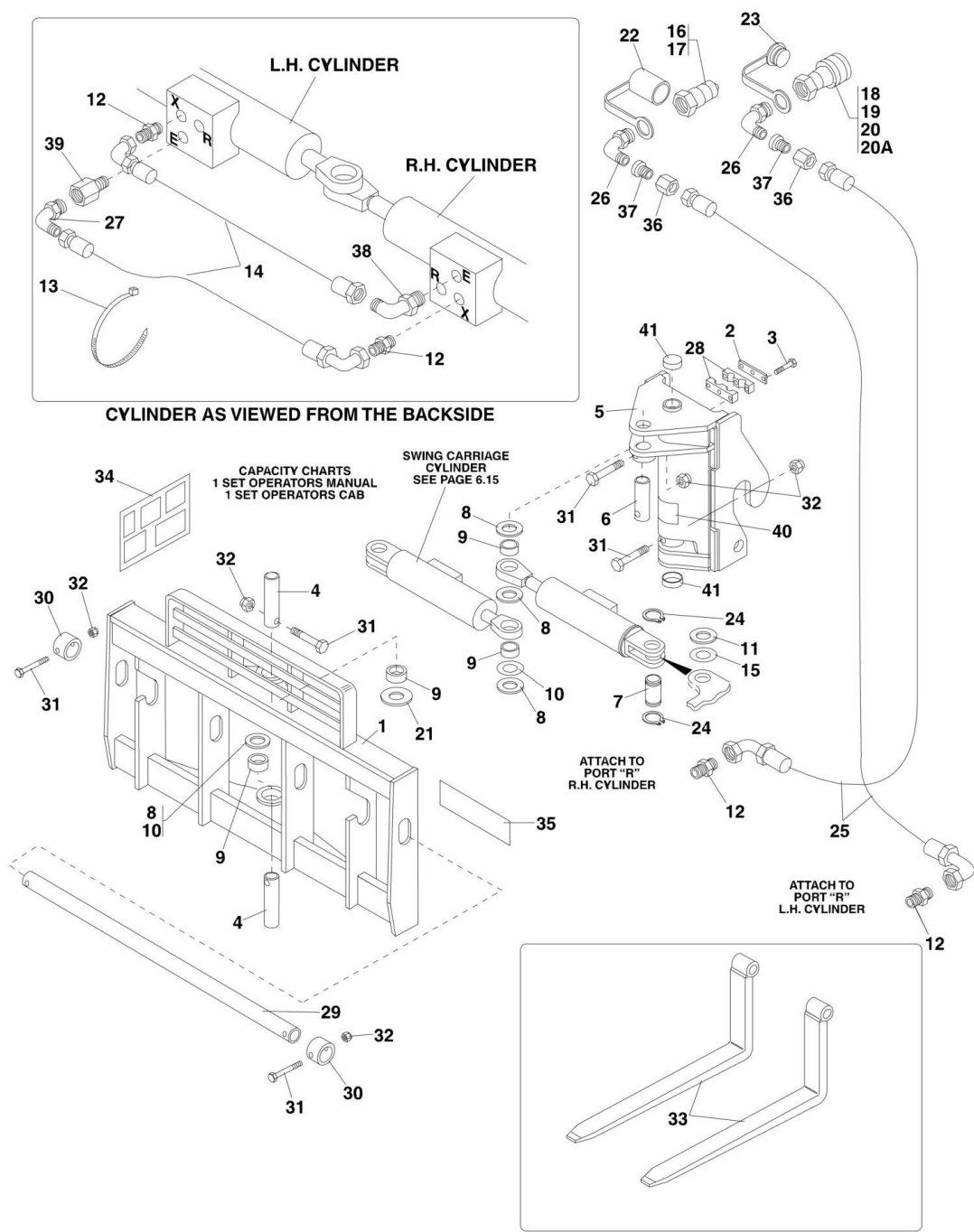
SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-13. SIDE TILT CARRIAGE - OPTIONAL (SN 1317 to Present)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7089044	1	Carriage, Side Tilt - 48in	
2	7089054	1	Carriage, Side Tilt - 60in	
3	7098354	1	Carriage, Side Tilt - 72in	
4	7065482	2	Pad Wear	
5	8303739	2	Screw, Hex Hd Cap, 5/16-18 x 1-1/4	
6	8305626	2	Locknut, 5/16NC	
7	7085154	1	Base, Pivot	
8	7077501	1	Pin, Cylinder Base	
9	7077511	1	Pin, Cylinder Rod	
10	7077481	2	Spacer	
11	8065634	1	Bushing, Self Align	
12	8642001	1	Ring, Snap	
13	8642235	4	Ring, Snap	
14	8760117	2	Connector, Straight, SAE 6-6 - male JIC x male str. thd. O-ring	
15	8584001	1	Tie Wrap	
16	2711992	2	Hose Assembly	
17	8760110	2	Connector, Straight, SAE 6-8 - male JIC 37 x male str. thd. o-ring	
18	8430006	1	Quick Disconnect, Male, SAE 8-8, 3/4-16 ORB(Includes Item 18A)	
18A	8640029	1	Seal, Nose, Viton (Not Shown)	
19	8430005	1	Quick Disconnect, Female, SAE 8-8, 3/4-16 ORB (Includes Item 19A, 19B & 19C)	
19A	8640029	1	Seal, Nose, Viton (Not Shown)	
19B	8640028	1	Seal, Coupler Body, Viton (Not Shown)	
19C	8640032	1	Back-up Ring, Coulper Body (Not Shown)	
20	8541433	1	Plug, Pipe, Hex Socket, 1/8	
21	8420053	1	Cap, Dust, SAE 8	
22	8420055	1	Plug, Dust, SAE 8	
23	8582406-0090	1	Moulding	
24	7085411	1	Pin, Pivot	
25	7085501	1	Collar, Pin Locking	
26	8303770	1	Screw, Hex Hd Cap, 3/8-16 x 2-3/4	
27	8305645	1	Locknut, 3/8-16 ESNA	
28	7083912	1	Shaft, Fork Pivot, 48 x 2.00in	
29	7084972	1	Shaft, Fork Pivot, 60 x 2.00in	
30	7084942	1	Shaft, Fork Pivot, 72 x 2.00in	
31	7086471	2	Hub, Lock	
32	8303634	2	Screw, Hex Hd Cap, 5/8-11 x 4	
33	8305643	2	Locknut, 5/8-11 x 4	
34	7048233	2	Fork, Pallet 48 x 4 x 1.75in (3000 lb Rating)	
34	7085673	2	Fork, Lumber 60 x 5 (Not Shown) (22in Fork Drop)	
34	7082793	2	Fork, Lumber 60 x 5 (Not Shown) (24in Fork Drop) (Service in pairs when replacing 22in drop forks)	
34	7085073	6	Fork, Blocking (Not Shown)	

SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-14. SWING CARRIAGE (OPTIONAL)



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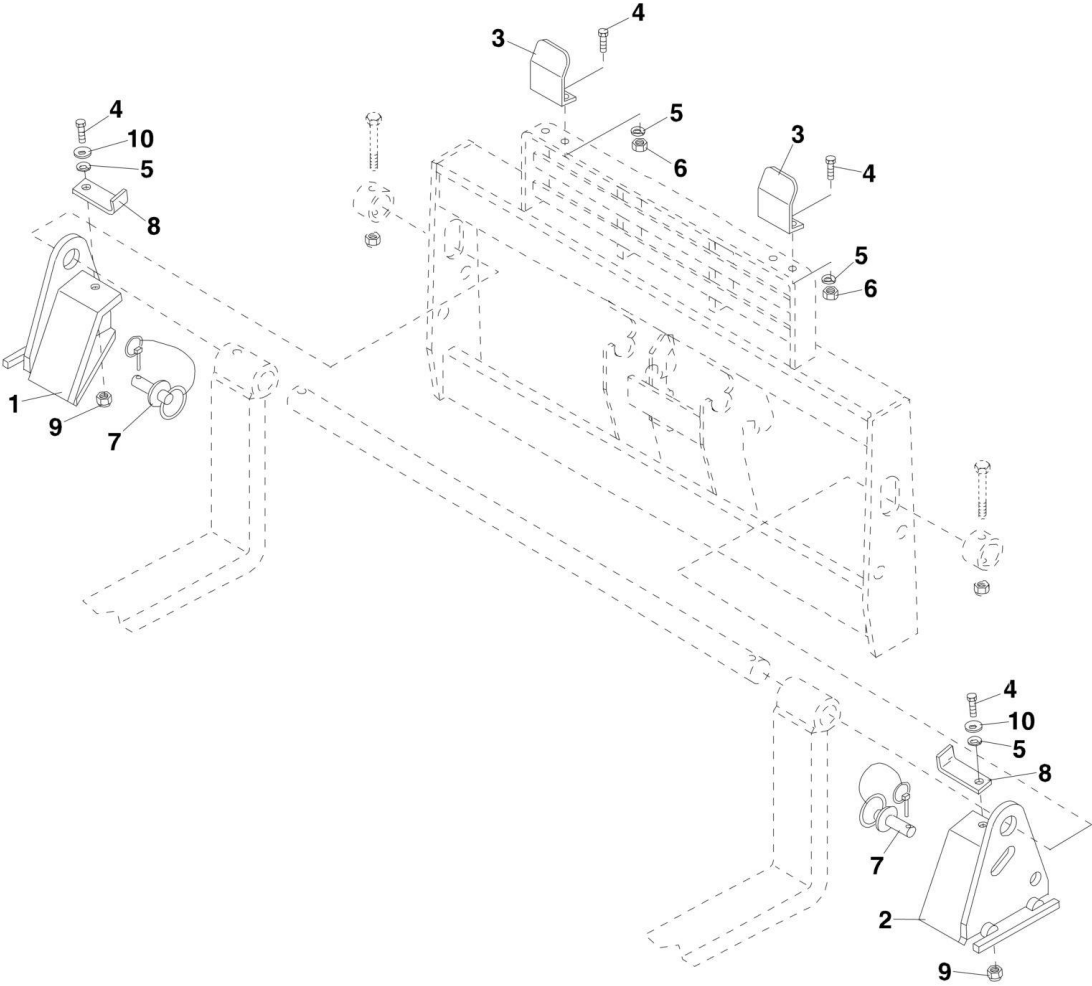
SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-14. SWING CARRIAGE (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7111994	1	Carriage - 52in	
1	7110694	1	Carriage - 72in	
2	6608621	1	Cover - Clamp	
3	8303715	3	Screw, Hex Hd Cap, 5/16-18 x 1-1/2	
4	7110702	2	Pin, Carriage Pivot	
5	7110494	1	Base Pivot	
6	7110712	1	Pin, Cylinder Pivot (Rod End)	
7	7110722	2	Pin, Cylinder Pivot (Base End)	
8	8307918	AR	Shim, 2in ID x 10 Ga	
9	8065062	4	Bearing, Self Lube	
10	8307904	AR	Shim, 2in ID x 18 Ga	
11	8310161	AR	Shim, 1-1/2in ID x 10 Ga	
12	8760113	4	Connector, Straight, SAE 4 - male JIC 37 x male str. thd. o-ring	
13	8584001	4	Tie Wrap	
14	6604662	2	Hose Assembly	
15	8310160	AR	Shim, 1-1/2in I.D. x 18 Ga.	
16	8430006	1	Quick Disconnect, Male 3/4-16 ORB (Includes Item 17)	
17	8640029	1	Seal, Nose (Not Shown)	
18	8430005	1	Quick Disconnect, Female 3/4-16 ORB (Includes Items 19, 20 & 20A)	
19	8640029	1	Seal, Nose (Not Shown)	
20	8640028	1	Seal, Large, Coupler Body (Not Shown)	
20A	8640032	1	Back-up Ring for Large Seal (Not Shown)	
21	7062922	1	Bearing,Thrust	
22	8420053	1	Cap, Dust	
23	8420055	1	Plug, Dust	
24	8642207	4	Ring, Retaining	
25	6611752	2	Hose Assembly	
26	8760313	2	Elbow, 90, SAE 6-8 - male JIC x male str. thd. O-ring	
27	8760311	1	Elbow, 90, SAE 6 - male JIC x male str. thd. O-ring	
28	8769132	2	Clamp, Half	
29	7112052	1	Shaft, Fork Pivot 52in	
29	7084942	1	Shaft, Fork Pivot 72in	
30	7086471	2	Hub, Lock	
31	8303634	5	Screw, Hex Hd Cap, 5/8-11 x 4in	
32	8305643	5	Locknut, 5/8-11	
33	7097523	2	Fork, Pallet 48in x 4in x 2in (4000 lb Rating)	
33	7097533	2	Fork, Lumber (Not Shown)	
33	7085073	6	Fork, Blocking (Not Shown)	
34	4107692	2	Chart, Capacity	
35	4107702	1	Decal, Danger - Tip Over Hazard	
36	8760409	2	Nut, SAE 6 JIC 37	
37	8760475	2	Reducer, Tube End SAE 6-4 JIC 37	
38	8770012	1	Elbow, 90, SAE 6-4 male JIC 37	
39	8770016	1	Reducer, Tube End SAE 4-6	
40	4107712	1	Decal, Danger - No Truss Boom	
41	8580315	2	Plug, Trim 2-1/2in Dia	

SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-15. SHEET MATERIAL HANDLER (OPTIONAL)



SECTION 9 - BOOM AND ATTACHMENTS

FIGURE 9-15. SHEET MATERIAL HANDLER (OPTIONAL)

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
1	7112533	1	Fork Support, RH	
2	7112523	1	Fork Support, LH	
3	7112523	1	Backrest Extension, Top	
4	8303626	6	Screw, Hex Hd Cap, 1/2-13 x 1-1/2	
5	8307007	6	Washer, Lock 1/2in	
6	8305012	4	Nut, Hex, 1/2-13	
7	8301456	2	Hitch Pin	
8	7114941	2	Lock, Bar	
9	8305644	2	Locknut, Hex, Elastic 1/2-13	
10	8307112	2	Washer, Flat, 1/2in LT	

SECTION 10 - RECOMMENDED SERVICE PARTS STOCK

SECTION 10 - RECOMMENDED SERVICE PARTS STOCK

SECTION 10 - RECOMMENDED SERVICE PARTS STOCK

FIGURE 10-1. 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.	
	8229215	1	Breaker, 6 Amp (Electrical System)	
	8229216	1	Breaker, 10 Amp (Electrical System)	
	8229227	1	Breaker, 15 Amp (Lighting System) (Early Machines)	
	8229415	1	Breaker, 40 Amp (Electrical System - Cab Harness) (SN 9B0501 to Present)	
	8229226	1	Breaker, 40 Amp (Electrical System)	
	8322022	1	Breather, Filler (Hydraulic Tank)	
	8034564	1	Coil (Directional Control Valves) (SN 9B0500 to Present)	
	7111762	1	Control, Electronic (TLC Wiring) (Inductive Joysticks)	
	7089712	1	Control, Electronic (Boom Control) (Resistive Joystick)	
	8160406	1	Controller, Auxiliary Hydraulics (Auxiliary Hydraulic Control)	
	7111203	1	Controller, Brake Pedal (Service Brake)	
	8224025	1	Controller, Joystick (Boom Control) (Cable Control Joystick)	
	8224016	1	Controller, Joystick (Boom Control) (Electronic Control Joystick W/O TLC) (Resistive Electronic Joystick W/TLC)	
	8224026	1	Controller, Joystick (Frame Level and Attachment Tilt)	
	8224024	1	Controller, Joystick (Boom Control) (Inductive Electronic Joystick W/TLC)	
	8162003	1	Controller, Throttle Pedal	
	7090051	2	Diode (TLC Assembly)	
	7090041	2	Diode (TLC Assembly)	
	7090191	2	Diode (TLC Assembly)	
	7090901	2	Diode (TLC Assembly)	
	7090031	2	Diode - Boom Control (Inductive Electronic Joystick W/TLC))	
		Ref	Engine - Cummins 4B3.9 Natural	
	8320262	12	Element, Engine Oil Filter	
	8320253	12	Element, Primary Fuel Filter	
	8320250	12	Element, Secondary Fuel Filter	
	8274021	12	Element, Fuel Pre-Filter	
	8273267	12	Element, Primary Air	
	8273271	12	Element, Secondary Air	
	8277143	1	Relay, Starter	
		Ref	Engine - Cummins 4BT3.9 - Turbo	
	8320262	12	Element, Engine Oil Filter	
	8320253	12	Element, Primary Fuel Filter	
	8320250	12	Element, Secondary Fuel Filter	
	8274021	12	Element, Fuel Pre-Filter	
	8273237	12	Element, Primary Air	
	8273238	12	Element, Secondary Air	
	8320270	12	Element, Single Filter/Water Separator	
	8277143	1	Relay, Starter	
		Ref	Engine - Perkins 4.236 - Natural	
	8320242	12	Element, Engine Oil Filter	
	8030943	12	Element, Fuel Filter	

SECTION 10 - RECOMMENDED SERVICE PARTS STOCK

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	8274012	12	Element, Fuel Pre-Filter	
	8273267	12	Element, Primary Air	
	8273271	12	Element, Secondary Air	
	8277143	1	Relay, Starter	
	Ref		Engine - Perkins 4.236T - Turbo	
	8320242	12	Element, Engine Oil Filter	
	8030943	12	Element, Fuel Filter	
	8274012	12	Element, Fuel Pre-Filter	
	8273237	12	Element, Primary Air	
	8273238	12	Element, Secondary Air	
	8277143	1	Relay, Starter	
	8320265	12	Element, Hydraulic (Hydraulic Tank)	
	8320240	12	Element, Hydraulic (Main Control Valve Circuit) (Prior to SN 9B0500)	
	8229233	2	Fuse, 7.5A (Cab Harness) (SN 9B0501 to Present)	
	8229234	2	Fuse, 10A (Cab Harness) (SN 9B0501 to Present)	
	8229235	2	Fuse, 20A (Cab Harness) (Lighting System) (Later Machines) (SN 9B0501 to Present)	
	8342808	1	Key, Door (Hood and Guards)	
	8223438	1	Key, Ignition (Electrical System)	
	7086762	1	Module, Driver (Boom Control) (Electronic Control Joystick W/O TLC)	
	7088222	1	Sensor, Boom Angle (Boom Control) (Resistive Electronic Joystick W/TLC) (Inductive Electronic Joystick W/TLC)	
	7088212	1	Sensor, Boom Length (Boom Control) (Resistive Electronic Joystick W/TLC)	
	7110922	1	Sensor, Boom Length (Boom Control) (Inductive Electronic Joystick W/TLC)	
	7088232	1	Sensor, Vehicle Attitude (Boom Control) (Resistive Electronic Joystick W/TLC)	
	8032888	1	Solenoid (Steering & Emergency Brake Pump) (Electrical System) (Prior to SN 7P0014)	
	8033182	1	Solenoid (Steering & Emergency Brake Pump) (Electrical System) (SN 7P0014 through 9B0499)	
	8903009	1	Solenoid (Main Control Valve-Electronic) (SN 9B0500 to Present)	
	8902130	1	Solenoid (Directional Control Valves) (Prior to SN 9B0500)	
	8032756	1	Solenoid (Directional Control Valves)	
	8223444	1	Switch, Brake (Control Console)	
	8223016	1	Switch, Head Lights (Lighting System)	
	8223405	1	Switch, Horn Button (Control Console)	
	8223436	1	Switch, Ignition (Electrical System) (Prior to SN 9B0501)	
	8223025	1	Switch, Momentary Brake Light (Lighting System)	
	8223220	1	Switch, Steer Select (Control Console)	
	8223442	1	Switch, Test (Control Console)	
	8223419	1	Switch, Turn Signal (Lighting System)	
	8033201	1	Switch, Washer/Wiper (Control Console)	

SECTION 11 - SPECIAL OPTIONS/ACCESSORIES/KITS

SECTION 11 - SPECIAL OPTIONS/ACCESSORIES/KITS

FIGURE 11-1. SPECIAL OPTIONS/ACCESSORIES/KITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	See Note	Ref	Note: This list is to accommodate machines ordered with special options, supply accessories and provide kits and tools. Not all components in the list will be applicable for all models. More specific information, contact the JLG Parts Department.	
		Ref	SPECIAL OPTIONS/ACCESSORIES/KITS	
	1001136917	Ref	Air Baffle Kit	
	1001200204	Ref	Alarm (White Noise) Kit	
	1001195606	Ref	Anti-Stall Kit (T4i)	
	1001147478	Ref	Armrest Kit	
	1001121513	Ref	Axle Upgrade Kit - 4-Gear Planetary Rear Axle	
	1001155419	Ref	Battery Cable Routing Kit (6036)	
	1001126387	Ref	Bearing Retainer Kit	
	8024025	Ref	Boom Extend Chain Kit (6036 Legacy) (SN 14834 through 19988, SN 0160002345 to Present)	
	8024032	Ref	Boom Extend Chain Kit (6042 Legacy)	
	8024026	Ref	Boom Retract Chain Kit (6036 Legacy) (SN 14834 through 19988, SN 0160002345 to Present)	
	8024033	Ref	Boom Retract Chain Kit (6042 Legacy)	
	2910994	Ref	Boom Wear Pad Kit (6036 Legacy)	
	2910997	Ref	Boom Wear Pad Kit (6036 Pre-Legacy)	
	1001119783	Ref	Boom Wear Pad Kit (6042)	
	1001167008	Ref	Brake Inlet Pressure Kit	
	1001171117	Ref	Brake Valve Fitting Kit	
	1001265373	Ref	ClearSky Telematics Harness Add-on Kit	
	1001154226	Ref	Cooler Vent kit	
	2915187	Ref	Decal Kit - ANSI (6036)	
	2915188	Ref	Decal Kit - ANSI (6042)	
	1001111278	Ref	Decal Kit - ISO (6036)	
	1001111729	Ref	Decal Kit - ISO (6042)	
	1001202258	Ref	Door Bumper Kit	
		Ref	Electrical Connector Kits	
	1001148902	Ref	Electrical Connector Kit - Amp/Tyco Electrical Connectors	
	1001148903	Ref	Electrical Connector Kit - Deutsch DT Electrical Connectors	
	1001148904	Ref	Electrical Connector Kit - Deutsch HD Electrical Connectors	
	1001148905	Ref	Electrical Connector Kit - Packard Electrical Connectors	
	1001148906	Ref	Electrical Connector Kit - Various Electrical Connectors	
	1001177168	Ref	Engine Lifting Brackets Kit	
	1001145164	Ref	Engine Lifting (Rear) Brackets Kit (Tier 3.3 Engines)	
	1001128806	Ref	Fan Shroud Kit	
	1001136035	Ref	Filter Kit - Fuel (LRC)	
	7138289	Ref	Filter Service Kit - 250 Hour - Cummins 4B3.9 Naturally Aspirated Engine (6036 Pre-Legacy)	
	7138290	Ref	Filter Service Kit - 250 Hour - Cummins 4BT3.9 Turbo Engine (6036 Pre-Legacy)	
	7138291	Ref	Filter Service Kit - 250 Hour - Cummins 4BT3.9 Turbo Engine (6036 Pre-Legacy) (Prior to SN 3617)	
	1001128949	Ref	Filter Service Kit - 250 Hour - Cummins 4BT3.9 Turbo Engine (6036) (SN 14834 through 19983, SN 0160002345 through 0160004109)	
	1001128951	Ref	Filter Service Kit - 250 Hour - Cummins 4BT3.9 Turbo Engine (6042) (SN 0160002408 through 0160004110)	

SECTION 11 - SPECIAL OPTIONS/ACCESSORIES/KITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001128949	Ref	Filter Service Kit - 250 Hour - Cummins 4BT3.9 Turbo Engine (6042) (SN 17019 through 19897)	Y
	1001128968	Ref	Filter Service Kit - 250 Hour - Cummins Tier III Engine (6036 & 6042) (SN 01600039408 to Present)	
	1001150516	Ref	Filter Service Kit - 250 Hour - LS Engine (Legacy)	
	7138287	Ref	Filter Service Kit - 250 Hour - Perkins 4.236 Engine (6036 Pre-Legacy)	
	7138295	Ref	Filter Service Kit - 1000 hour - Cummins 4B3.9 Naturally Aspirated Engine (6036 Pre-Legacy) (was PN 7092041)	
	8024016	Ref	Filter Service Kit - 1000 Hour - Cummins 4BT3.9 Turbo Engine (6036 Pre-Legacy) (Prior to SN 3617)	
	7138316	Ref	Filter Service Kit - 1000 Hour - Cummins 4BT3.9 Turbo Engine (6036 Pre-Legacy) (SN 3617 to Present)	
	7138301	Ref	Filter Service Kit - 1000 Hour - Cummins 4BT3.9 Turbo Engine (6036 Legacy) (was PN 7092051) (Prior to SN 3617)	
	2915036	Ref	Filter Service Kit - 1000 Hour - Cummins Tier II Engine (6036 & 6042)	
	1001128950	Ref	Filter Service Kit - 1000 Hour - Cummins 4BT3.9 Turbo Engine) (6042) (SN 0160002408 through 0160004110)	
	1001128967	Ref	Filter Service Kit - 1000 Hour - Cummins Tier III Engine (6036 & 6042) (SN 01600039408 to Present)	
	1001150517	Ref	Filter Service Kit - 1000 Hour - LS Engine (Legacy)	
	1001150525	Ref	Filter Service Kit - 1000 Hour - LS Engine (Legacy)	
	1001150518	Ref	Filter Service Kit - 1000 Hour - ULS Engine (Legacy)	
	1001150526	Ref	Filter Service Kit - 1000 Hour - ULS Engine (Legacy)	
	7138293	Ref	Filter Service Kit - 1000 Hour- Perkins 4.236 Naturally Aspirated Engine (6036 Pre-Legacy) (was PN 7092021)	
	7138294	Ref	Filter Service Kit - 1000 Hour - Perkins 4.236T Turbo Engine (6036 Pre-Legacy) (was PN 7092031)	
	1001193364	Ref	Fire Extinguisher Kit	
	1001203742	Ref	Hose Kit - Frame Tilt Plumbing	
	80904003	Ref	Hydraulic Test Kit	
	1001253916	Ref	Latch Catch Replacement Kit	
	1001132458	Ref	Latch with Plate Kit	
	1001137676	Ref	Light Kit - Roadlight (6036)	
	1001137628	Ref	Light Kit - Roadlight (6042)	
	1001137628	Ref	Light Kit - Roadlight with Adjustable Pedal	
	1001137627	Ref	Light Kit - Worklight	
	1001188068	Ref	Luk Coupler Kit	
	1001130717	Ref	Service Kits List	
	1001196630	Ref	Steer Orbital Kit (T4i)	
	1001273266	Ref	Throttle Pedal Extension Harness	
	1001273267	Ref	Throttle Pedal Extension Harness	
	1001248570	Ref	Tire Set Kit - Foam-Filled 13.00 x 24	
	1001248571	Ref	Tire Set Kit - Pneumatic 13.00 x 24	
	1001274718	Ref	Tire Set Kit - Solid 13.00 x 24 Directional	
	1001274257	Ref	Tire Set Kit - Solid 13.00 x 28 Directional	
	1001274302	Ref	Tire Set Kit - Solid 13.00 x 28 Non-Directional	
	1001274721	Ref	Tire Set Kit - Solid 14.00 x 24 Directional	
	1001274305	Ref	Tire Set Kit - Solid 14.00 x 28 Directional	
	1001274307	Ref	Tire Set Kit - Solid 14.00 x 28 Non-Directional	
		Ref	Tools for Service	
	2901443	Ref	Analyzer Kit	
	1001249695	Ref	Analyzer and Cable Kit	

SECTION 11 - SPECIAL OPTIONS/ACCESSORIES/KITS

ITEM	PART NUMBER	QTY	DESCRIPTION	REV
	1001249941	Ref	Analyzer and Cable Kit (Battery Powered)	
	1001137005	Ref	Cable Kit, Software	
	7002821	Ref	Crimper, Wire	
	7002823	Ref	Pin Extractor - Universal (For Electrical Connectors with Pins and Sockets)	
	4460510	Ref	Pin Extractor - 12-14 Gauge (For Removal of Pin/Sockets from Deutsch Connectors)	
	4460467	Ref	Pin Extractor - 16-18 Gauge (For Removal of Pin/Sockets from Deutsch Connectors)	
	7016654	Ref	Screwdriver, Magnetic	
	7002822	Ref	Screwdriver, Potentiometer	
	7004275	Ref	Seal Tool 1in (For Cylinders)	
	7004276	Ref	Seal Tool 1-1/2in (For Cylinders)	
	7002828	Ref	Stripper, Wire	
	80304484	Ref	Pry Bar Set, ZF Axle	
	80304480	Ref	Two-Armed Puller, ZF Axle	
	7025854	Ref	Two-Armed Puller, ZF Axle	
	70010241	Ref	Threaded Ring, M105 x 3, ZF Axle	
	70010239	Ref	Two-Armed Puller, 160-150mm, ZF Axle and Transmission	
	70023172	Ref	Gripping Insert Super, ZF Axle	
	70023173	Ref	Back-Off Insert, Rear ZF Axle	
	70023174	Ref	Eye Bolt Assortment, ZF Axle and Transmission	
	70022872	Ref	Internal Extractor, 45-58mm, ZF Axle and Transmission	
	70022873	Ref	Internal Extractor, 70-100mm, ZF Axle	
	70022871	Ref	Counter Support, Rear, ZF Axle and Transmission	
	7029740	Ref	Driver, ZF Axle	
	7029739	Ref	Driver, ZF Axle	
	7029738	Ref	Driver, ZF Axle	
	70010244	Ref	Internal Extractor, ZF Axle	
	70010245	Ref	Counter Support, ZF Axle	
	70022866	Ref	Spanner, ZF Axle	
	70022867	Ref	Torque Spanner, 5-45Nm, ZF Axle	
	80304492	Ref	Wheel Bolt Puller Basic Set, ZF Axle	
	70110101	Ref	Driver, ZF Axle	
	80304498	Ref	Handle, ZF Axle	
	70010281	Ref	Slotted Nut Wrench, ZF Axle	
	70010283	Ref	Installer, ZF Axle	
	70010284	Ref	Installer, ZF Axle	
	80304497	Ref	HP-Pump, ZF Axle	
	7025856	Ref	Striker, ZF axle	
	70010243	Ref	Measuring Hub, 9/6IN - 18UNF	
	1001162831	Ref	Window (Dropout) Kit (ANSI Specs)	
	1001162832	Ref	Window (Dropout) Kit (CSA Specs)	
	1001162833	Ref	Window (Dropout) Kit (ISO Specs)	
	1001202925	Ref	Window Kit (Cab Door with Bumpers)	

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