

SKYTRAK[®]

Illustrated Parts Manual

Model 9038

8990160
February 1990
S/N 9A0550 and After

ANSI



JLG[®]

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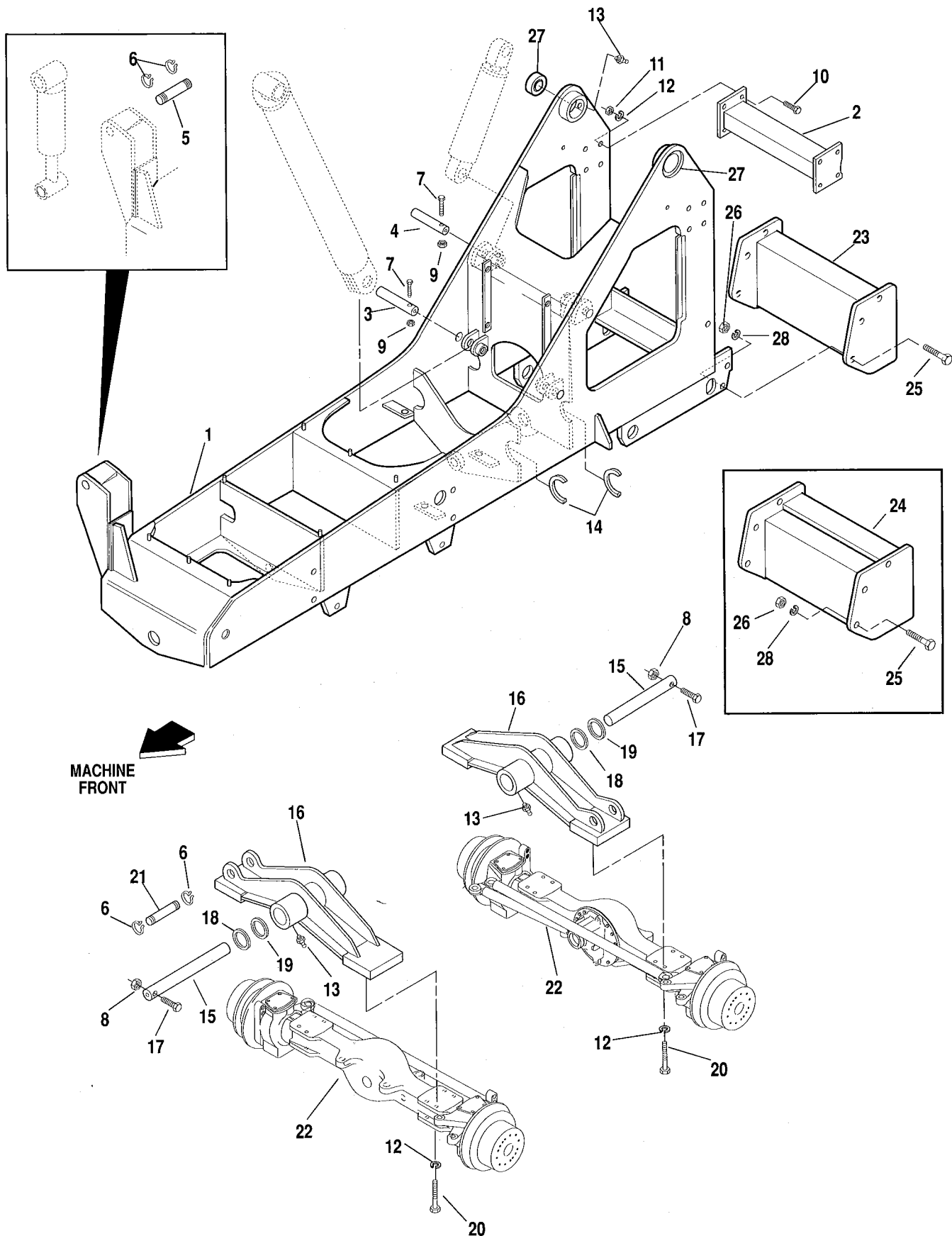
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MAIN FRAME

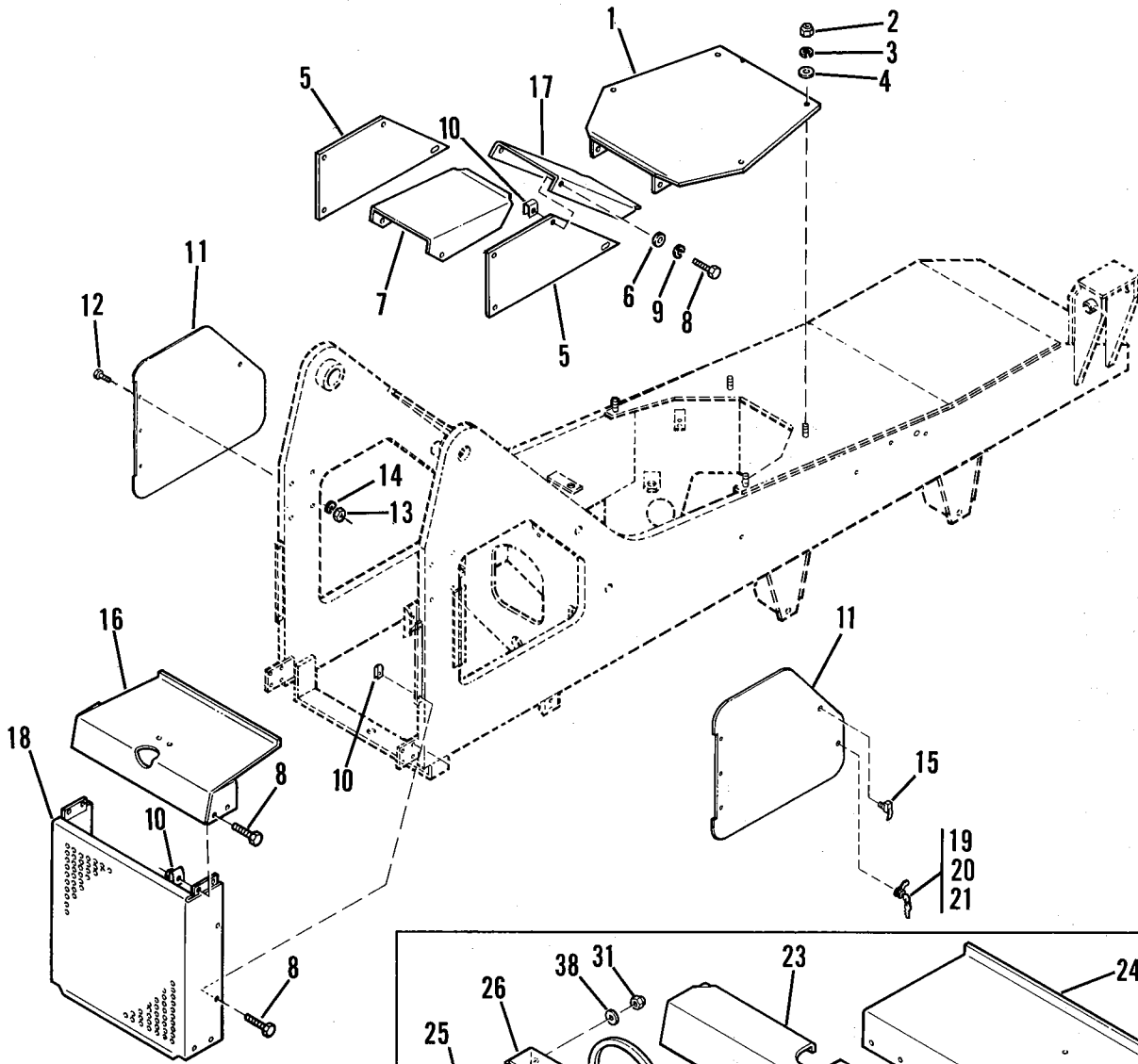


MAIN FRAME

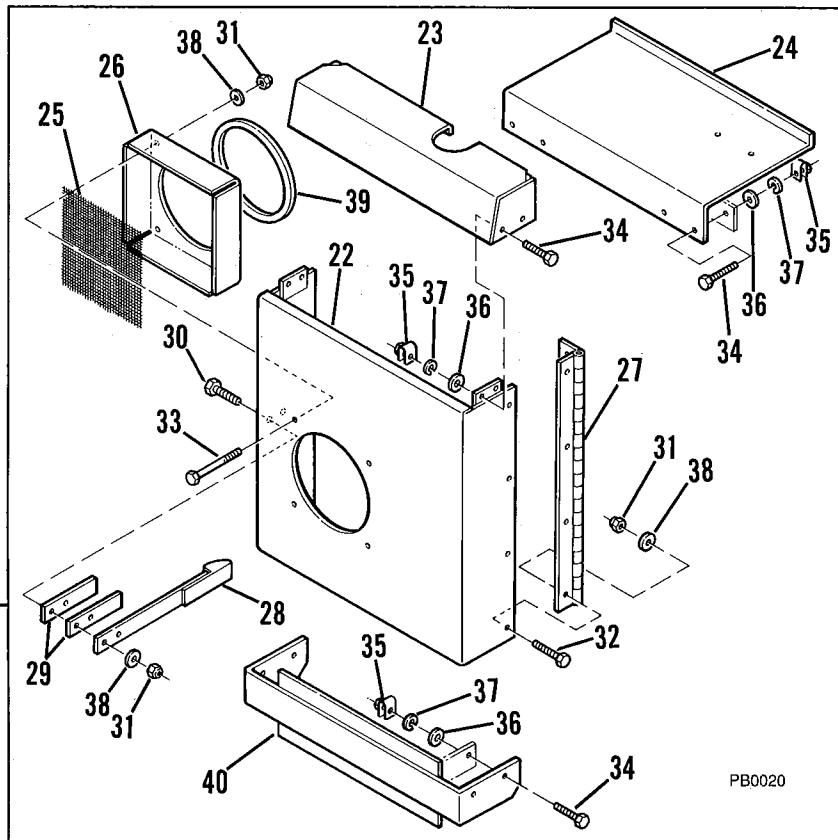
Item No.	Part Number	Qty.	Description
1	Consult Factory	1	Frame Weldment
2	7078952	1	Support, Crossmember (Ford)
	7080932	1	Support, Crossmember (Perkins)
	7078972	1	Support, Crossmember (J. Deere)
	7084302	1	Support, Crossmember (Deutz)
3	7065651	2	Pin, Hoist Cylinder, Base End
4	7075172	2	Pin, Slave Cylinder, Base End
5	7077671	1	Pin, Frame Tilt Cylinder
6	8642207	4	Ring, Snap
7	8303770	4	Screw, Hex Hd Cap, 3/8-16 x 2-3/4 Gr 5
8	8305643	2	Locknut 5/8-11
9	8305645	4	Locknut 3/8-16
10	8303639	8	Screw, Hex Hd Cap, 3/4-10 x 3 Gr 5
11	8305017	8	Nut, Hex 3/4-10
12	8307010	24	Lockwasher, 3/4
13	8520013	6	Fitting, Grease
14	8221020-0125	4	Conduit, 1.0 ID x 12.5 Lg
15	7079442	2	Pin, Axle Pivot
16	7077113	2	Carrier, Axle
17	8303655	2	Screw, Hex Hd Cap, 5/8-11 x 4.5 Lg
18	8307913	2	Spacer, Washer 1/8
19	8307912	2	Spacer, Washer 1/16
20	8303516	16	Screw, Hex Hd Cap, 3/4-10 x 7 Gr 5
21	7077661	1	Pin, Frame Tilt Cylinder - Rod End
22	8040235	2	Axle, Front and Rear (<u>SEE NOTE BELOW</u>)
23	7088773	1	Counterweight, 1000 Lbs (Standard)
24	7089523	1	Counterweight, 2000 Lbs (w/Outriggers)
25	8310051	4	Screw, Hex Hd Cap, 1.0-8 NC x 4.0 Gr 5
26	8305021	4	Nut, Hex 1.0-8 NC
27	8065635	2	Bearing, Boom Pivot
28	8307012	4	Lockwasher, 1.0

NOTE: Axle assemblies do not include steer cylinders as a service replacement part. Reference pages 6.8 or 6.8.1 for proper cylinder part number and page 3.24 for steer cylinder sockets.

HOODS AND GUARDS



DEUTZ
ENGINES
ONLY

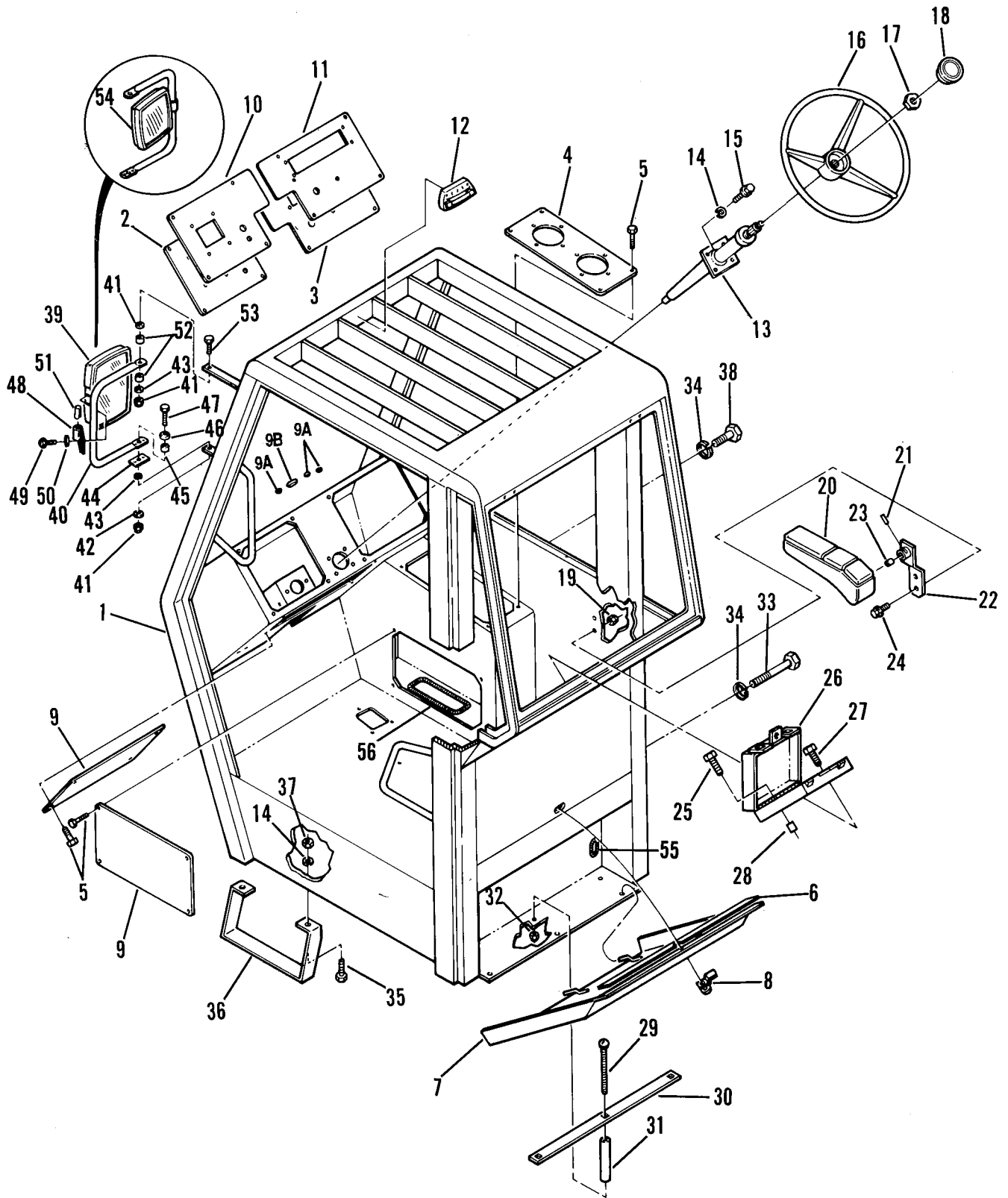


PB0020

HOODS AND GUARDS

Item No.	Part Number	Qty.	Description
1	7078413	1	Cover, Transmission (Clark)
	7078453	1	Cover, Transmission(Funk)
2	8305601	4	Locknut, Hex 1/4-20
3	8307002	4	Lockwasher, 1/4
4	8307202	4	Washer, Flat 1/4 Heavy
5	7078502	2	Cover, Valve -Side
6	8307106	8	Washer, Flat 5/16
7	7078492	1	Cover, Valve Top
8	8303697	20	Screw, Hex Hd Cap, 5/16-18 x 3/4 Gr 5
9	8307004	8	Lockwasher, 5/16
10	8305906	20	Retainer, 5/16-18
11	7078143	2	Door
12	8303776	6	Screw, Hex Hd Cap,1/4-20 x 1/2 Gr 5
13	8305004	6	Nut, Hex, 1/4-20
14	8307002	6	Lockwasher 1/4
15	8342404	2	Latch, Lift and Turn
16	7078903	1	Cover,Radiator Top
17	7078482	1	Cover, Valve - Front
18	7054723	1	Cover, Radiator
19	8342807	2	Latch, Door w/Key
20	8342809	2	Cam, Latch
21	8342808	1	Key Set
Items 22 thru 40 Used On Deutz Engines Only			
22	7084323	1	Door, Blower
23	7084412	1	Cover, Top
24	7084422	1	Panel, Top
25	7074721	1	Cloth, Wire
26	7084432	1	Duct
27	7084331	1	Hinge
28	8342406	1	Latch
29	7084361	2	Spacer
30	8303615	2	Screw, Hex Hd Cap, 1/4-20 x 1-1/4 Gr 5
31	8305601	14	Locknut 1/4NC
32	8303729	8	Screw, Hex Hd Cap,1/4-20 x 5/8 Gr 5
33	8303082	4	Screw, Hex Hd Cap, 1/4-20 x 3 Gr 5
34	8303670	12	Screw, Hex Hd Cap, 5/16-18 x 1 Gr 5
35	8305906	12	Nut, Retainer 5/16-18
36	8307203	12	Washer, Flat 5/16
37	8307004	12	Lockwasher 5/16
38	8307109	14	Washer, Flat 1/4
39	7075211	1	Seal
40	7084392	1	Panel, Door Sill

OPERATOR'S CAB — OPEN

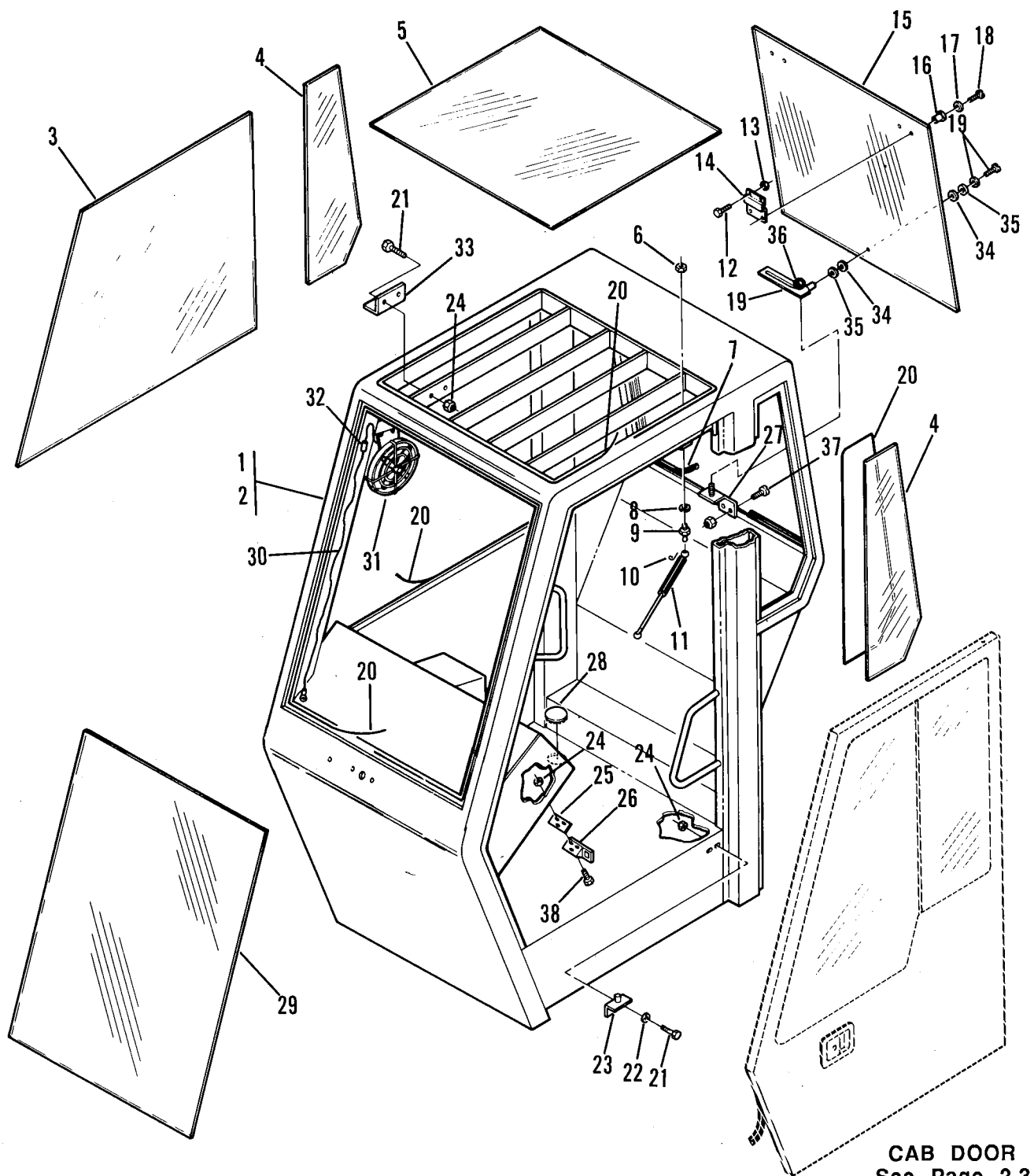


PA0811

OPERATOR'S CAB — OPEN

Item No.	Part Number	Qty.	Description
1	7080215	1	Cab Assembly, FOPS (Includes items 2 thru 9)
2	8033051	1	Panel, Left Front Console
3	8033052	1	Panel, Right Front Console
4	8033053	1	Panel, Side Console
5	8033058	20	Screw, Cap, Hex Hd, 1/4-20 x 3/4
6	8033031	1	Gasketing, Sponge Rubber, 251/4"
7	8033022	1	Cover, Battery
8	8033027	1	Lock, Cam
9	8033050	2	Panel, Lower
9A	8033062	3	Plug, Hole
9B	8033061	1	Plug, Hole
10	7088964	1	Overlay, Left Console
11	7088974	1	Overlay, Right Console
12	8466306	1	Gauge, Tilt Angle
13	8721023	1	Column, Steering
14	8307005	6	Lockwasher, 3/8
15	8303554	4	Screw, Flg Hd, 3/8NC x 1-1/4 grade 5
16	8720014	1	Wheel, Steering
17	8305916	1	Nut, Steering Column
18	8720015	1	Cap, Steering Wheel
19	8305624	2	Nut, Lock
20	8864038	1	Arm Rest
21	8302147	1	Pin, Roll
22	7084692	1	Bracket, Arm Rest
23	8065639	1	Bushing, Sleeve
24	8303119	2	Screw, Flg Hd, 1/4 x 5/8
25	8303118	3	Screw, Flg Hd, 1/4 x 1-3/4 Cad grade 5
26	8990147	1	Holder, Manual
27	8303729	2	Screw, Hex Hd, 1/4 x 5/8 grade 5
28	7772035-0008	1	Spacer, 5/8 OD x 1/8 W x 3/4
29	8304014	3	Bolt, Carriage
30	7082971	1	Bar, Battery Hold-down
31	8403217-0080	3	Hose
32	8305645	3	Nut, Lock
33	8310050	2	Screw, Cap, Hex Hd, 1NC x 6.0 grade 5
34	8307012	4	Lockwasher, 1"
35	8303534	2	Screw, Cap, Hex Hd, 3/8NC x 1-1/4 grade 5
36	7084882	1	Step
37	8305008	2	Nut, Hex, 3/8
38	8310049	2	Screw, Cap, Hex Hd, 1NC x 2-3/4 grade 5
39	8866215	1	Mirror Head (See Kits)
40	8866216	2	Loop, Mirror (See Kits)
41	See Kits	4	Locknut
42	See Kits	6	Washer, Flat
43	See Kits	2	Lockwasher, Int-Ext
44	See Kits	2	Plate, Lock
45	See Kits	2	Washer, Tension
46	See Kits	2	Cap, Retaining
47	See Kits	2	Bolt, Hex
48	See Kits	2	Clamp
49	See Kits	2	Bolt, Acorn
50	See Kits	2	Lockwasher
51	See Kits	2	Gasket, Clamp
52	See Kits	4	Washer, Fiber
53	See Kits	2	Bolt, Hex
54	8866223	1	Head, Mirror (Convex) (See Kits)
55	8221022-0110	1	Conduit, 1/4 ID x 11.0
56	8221022-0260	1	Conduit, 1/4 ID x 26.0
			<u>KITS</u>
	8866214	1	Mirror Kit (Includes Items 42 thru 54)

OPERATOR'S CAB — CLOSED (OPTIONAL)



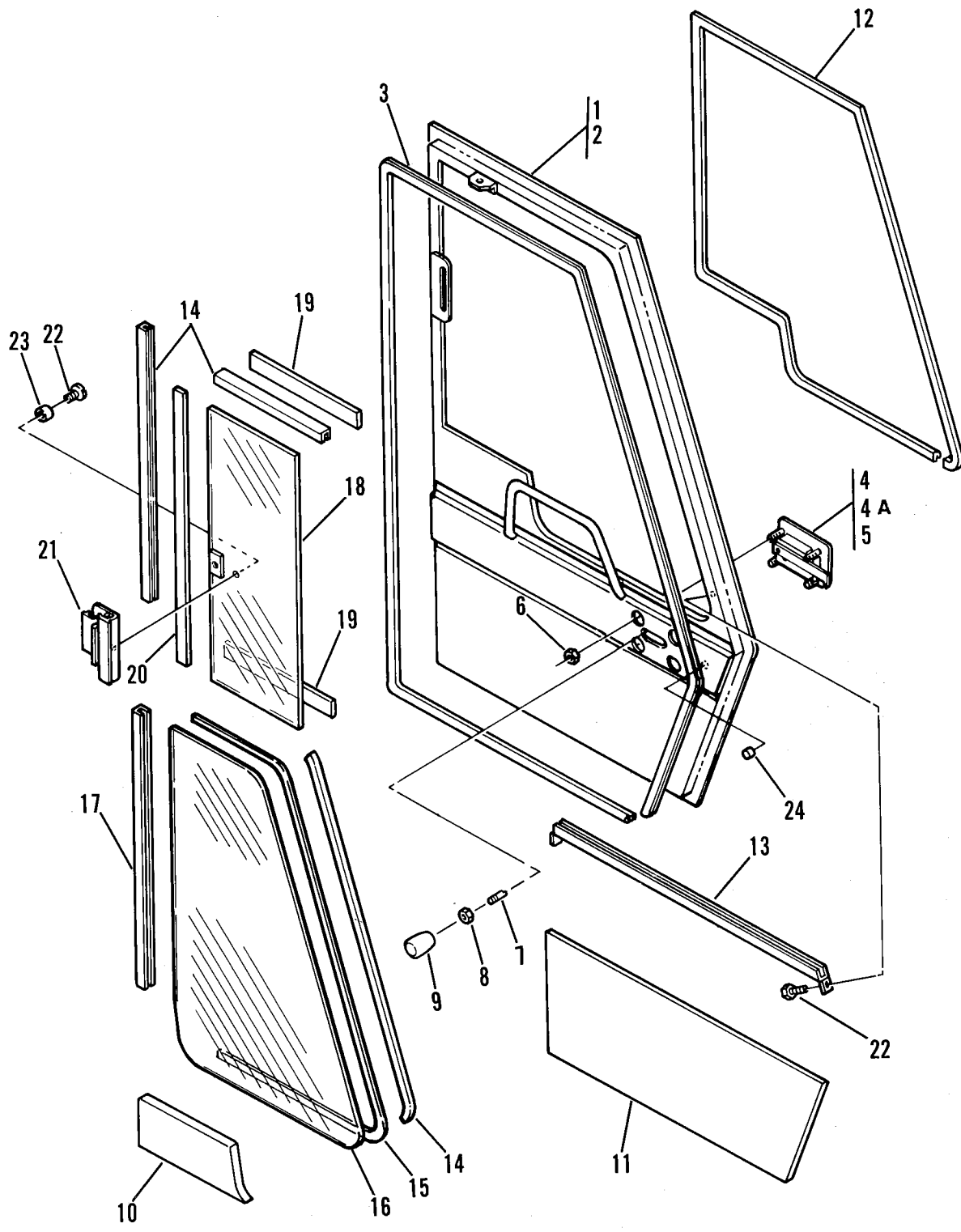
CAB DOOR
See Page 2.3

PA0821

OPERATOR'S CAB — CLOSED (OPTIONAL)

Item No.	Part Number	Qty.	Description
1	7084515	1	Cab , Enclosed (Includes all parts on this page and all parts on pages 2.3 and 2.11)
2	7080215	1	Cab Assembly, FOPS (See Page 2.1)
3	8033082	1	Window, Right Side
4	8033079	2	Window, Wing
5	8033081	1	Window, Skylight
6	8305602	1	Locknut, 5/16-18
7	8033072	1	Seal, Rubber, 120 in.
8	8033059	2	Washer, Flat, 5/16
9	8033070	2	Stud, Ball
10	8033069	2	Clip
11	8033055	1	Spring, Gas
12	8033089	4	Screw, Whizlock, #10-24 x 1/2
13	8305002	4	Nut, Hex, #10-24
14	8033085	2	Hinge, Spring
15	8033084	1	Window, Rear
16	8033086	4	Nut, Well
17	8033087	4	Washer, Nylon
18	8033088	4	Screw, Phil Hd, #10-32 x 3/4
19	8033044	1	Window Hold Slide Assembly, w/Hardware
20	8585135	5	Tape, Butyl, 1/4 sq x 15' Roll
21	8033058	4	Screw, Hex Hd Cap, 1/4-20 x 3/4
22	8307109	2	Washer, Flat 1/4
23	8033064	1	Bracket, Door Mounting
24	8305601	2	Locknut, 1/4-20
25	8585142	1	Shim, Door Striker
26	8585141	1	Striker
27	8585138	1	Weldment, Latch Bracket
28	8580315	1	Plug, Hole
29	8033083	1	Window, Front
30	8033076	1	Wire Assembly, Fan
31	8033078	1	Fan, Defroster
32	8033077	1	Connector, Wire
33	8585140	1	Bracket, Circulation Fan
34	8585139	2	Washer, Flat Plastic 3/8
35	8307204	2	Washer, Flat 3/8
36	8580115	1	Knob
37	8383776	2	Screw, Hex Hd Cap, 1/4-20 x 1/2
38	8033036	3	Screw, Hex Hd Cap, 1/4-20 x 1.00
39	8585134	AR	Sealant, Urathene, 10 oz Cartridge (Not Shown)
			<u>KITS</u>
	8585133	1	Window Glue Kit (Includes items 20, 39, 4 Setting Blocks and 1 Set of Installation Instructions)

CAB DOOR

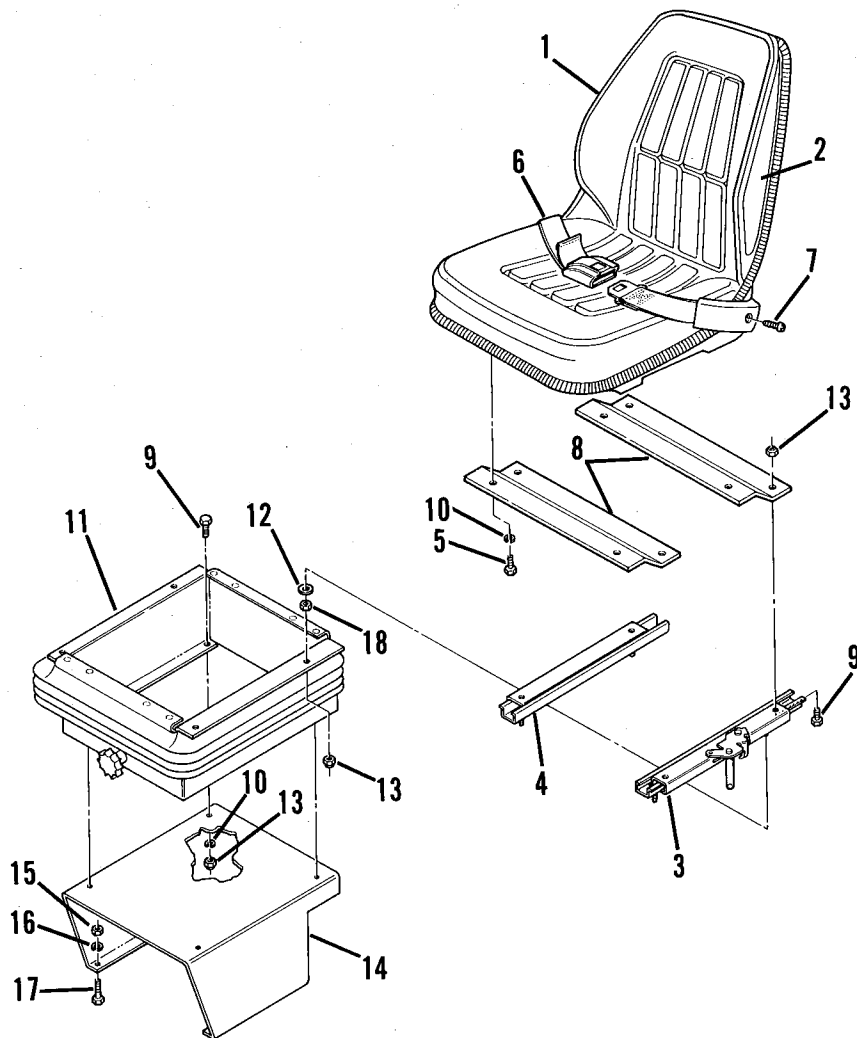


PA0052

CAB DOOR

Item No.	Part Number	Qty.	Description
1	8033010	1	Door Assembly (Includes Items 2 thru 28)
2	8033011	1	Door
3	8033023	1	Seal, Rubber Door,200 inch
4	8342405	1	Latch, Paddle
4A	8033060	1	Tumbler, Paddle Latch
5	8342808	1	Key (Not Shown)
6	8305004	4	Nut, Hex, 1/4 -20
7	8033026	1	Rod, Threaded, 3/8-16 x 1.88
8	8305008	1	Nut, Hex, 3/8-16UNC
9	8033019	1	Knob, Latch
10	8033029	1	Soundproofing, Upper Door
11	8033030	1	Soundproofing, Lower Door
12	8033020	1	Trim, Rubber,144 inch
13	8033013	1	Track, Side Window
14	8033024	1	Channel, Window,120 inch (Cut to length)
15	8033032	1	Sponge Rubber, Adhesive Backed, 80 inch
16	8033014	1	Window, Door
17	8033016	1	Channel, Wiper, 31 inch
18	8033015	1	Window, Sliding
19	8033033	2	Spacer, Plastic
20	8033028	1	Spacer, Plastic, 29 inch
21	8033018	1	Latch Assembly
22	8033835	2	Screw, #10-24 x 1/2
23	8033021	1	Bushing, Plastic
24	8033047	1	Bumper, Rubber

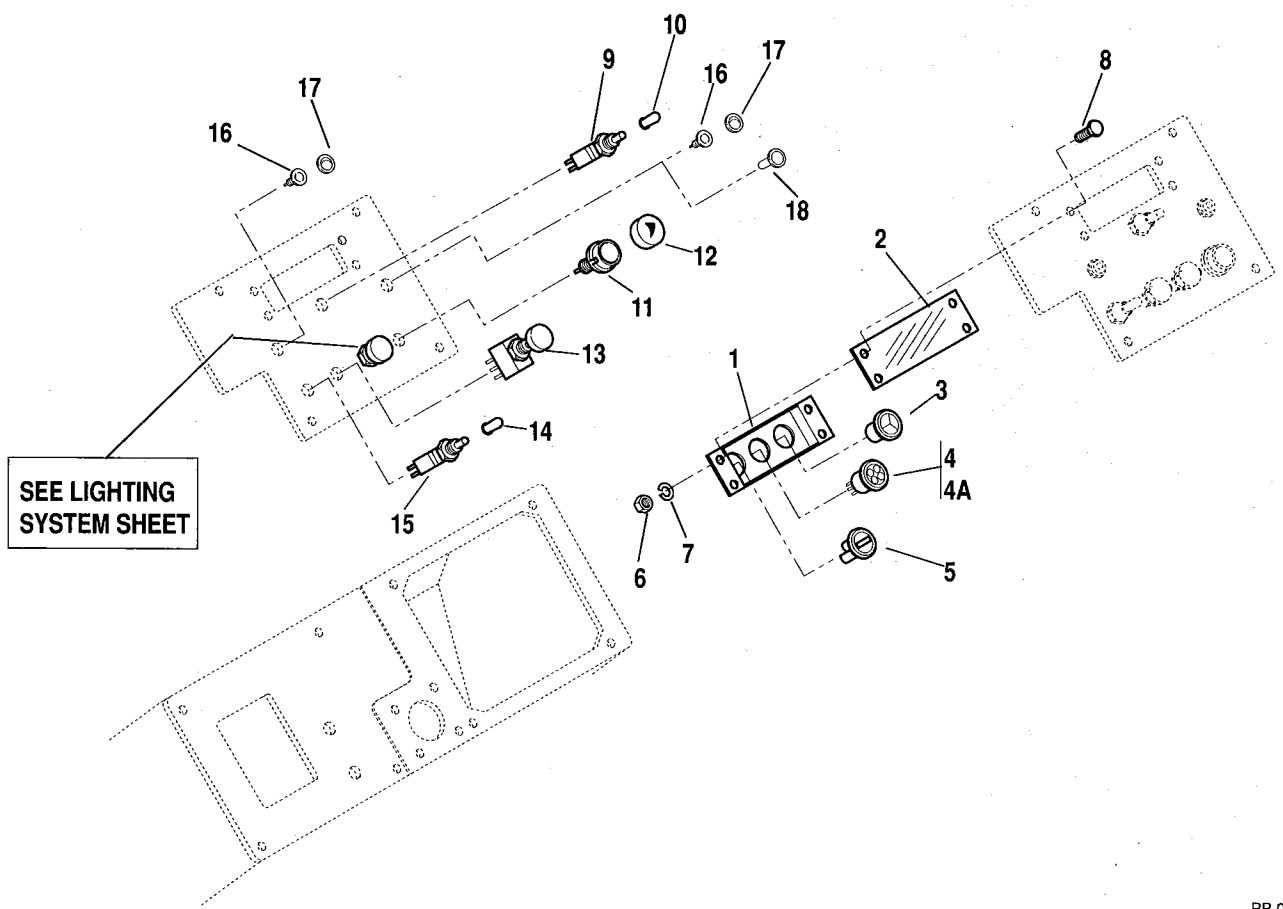
OPERATOR'S SEAT



PA0063

Item No.	Part Number	Qty.	Description
1	8864037	1	Seat Assembly (Includes Items 2 thru 5)
2	8864041	1	Cushion, Seat (orie piece)
3	8864039	1	Slide, w/Handle
4	8864040	1	Slide,w/o Handle
5	N.S.S.	4	Screw
6	8864034	1	Belt, Seat
7	8303604	2	Screw, Hex Hd Cap, 7/16-20 x 1-1/4
8	7090751	2	Mount, Seat
9	8303697	8	Screw, Cap, 5/16NC x 3/4
10	8307004	8	Lockwasher, 5/16
11	8864036	1	Suspension
12	8307232	4	Washer, Flat, 5/16
13	8305626	12	Nut, Lock, 5/16NC Cad
14	7083963	1	Support, Suspension
15	8305008	4	Nut, Hex , 3/8
16	8307005	4	Lockwasher, 3/8
17	8303534	4	Screw, Cap, Hex Hd, 3/8 NC x 1-1/4 Gr 5
18	8305006	4	Nut, Hex 5/16-18

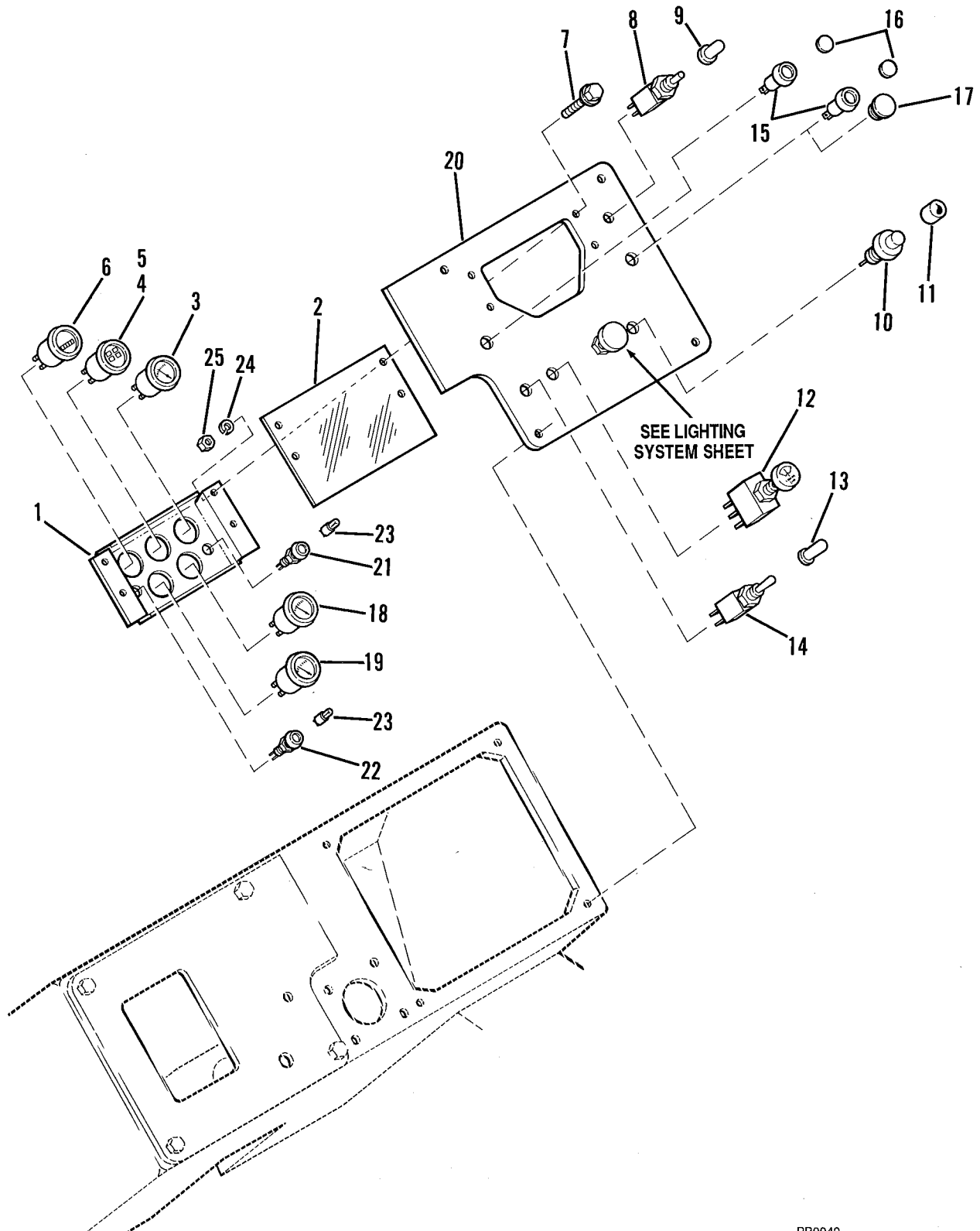
CONTROL CONSOLE (FORD, PERKINS & JOHN DEERE)



PB 0030

Item No.	Part Number	Qty.	Description
1	7084902	1	Plate, Gauge Mounting
2	7082292	1	Cover
3	8464212	1	Gauge, Fuel
4	8466305	1	Gauge, Warning Lights
4A	8469030	4	Bulb (Not Shown)
5	8467014	1	Hourmeter
6	8305004	4	Nut, Hex, 1/4-20
7	8307002	4	Lockwasher, 1/4
8	8310075	4	Screw, Hex Flange, 1/4-20 x 3/4 Gr 5
9	8223442	1	Switch Test
10	8580312	1	Cap, Seal
11	8223405	1	Button, Horn
12	8580311	1	Cap, Seal
13	8033201	1	Switch, Washer/Wiper (optional)
14	8580309	2	Cap Seal
15	8223001	1	Switch, Steer Select
16	7071342	AR	Socket, Light (2 on Funk - 1 on Clark)
17	8469012	AR	Lens, Red (2 on Funk - 1 on Clark)
18	8580314	1	Plug (Clark Transmission Only)

CONTROL CONSOLE (DEUTZ)

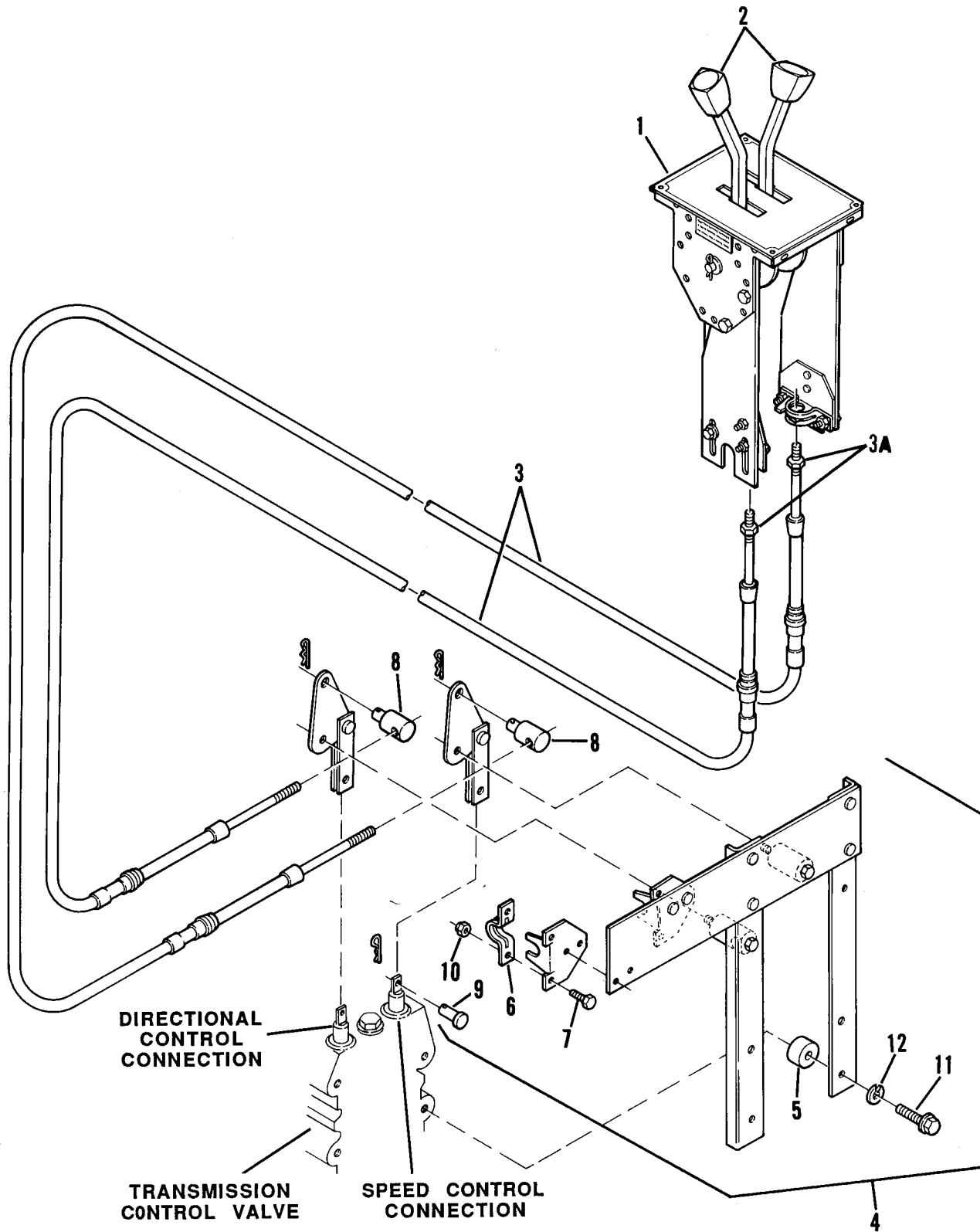


PB0040

CONTROL CONSOLE (DEUTZ)

Item No.	Part Number	Qty.	Description
1	7089173	1	Plate, Mounting
2	7089182	1	Cover, Window
3	8464212	1	Gauge, Fuel
4	8466305	1	Gauge, Warning Lights
5	8469030	4	Bulb (Not Shown)
6	8467014	1	Hourmeter
7	8310075	4	Screw, Flg Hd Cap, 1/4 NC x 3/4 Gr5
8	8223442	1	Switch Test
9	8580312	1	Cap, Seal
10	8223405	1	Button, Horn
11	8580311	1	Cap, Seal
12	8033201	1	Switch, Washer/Wiper (optional)
13	8580309	2	Cap Seal
14	8223001	1	Switch, Steer Select
15	7071342	2	Socket, Light
16	8469012	2	Lens, Red
17	8580314	1	Plug (Clark Transmission Only)
18	8462014	1	Gauge, Oil Temperature
19	8460025	1	Gauge, Oil Pressure
20	7089192	1	Panel, R. H. Console
21	8469032	1	Socket, Red Light
22	8469034	1	Socket, Amber Light
23	8469033	2	Bulb
24	8307002	4	Lockwasher, 1/4
25	8305004	4	Nut, Hex 1/4-20

TRANSMISSION SHIFT CONTROLS (CLARK)

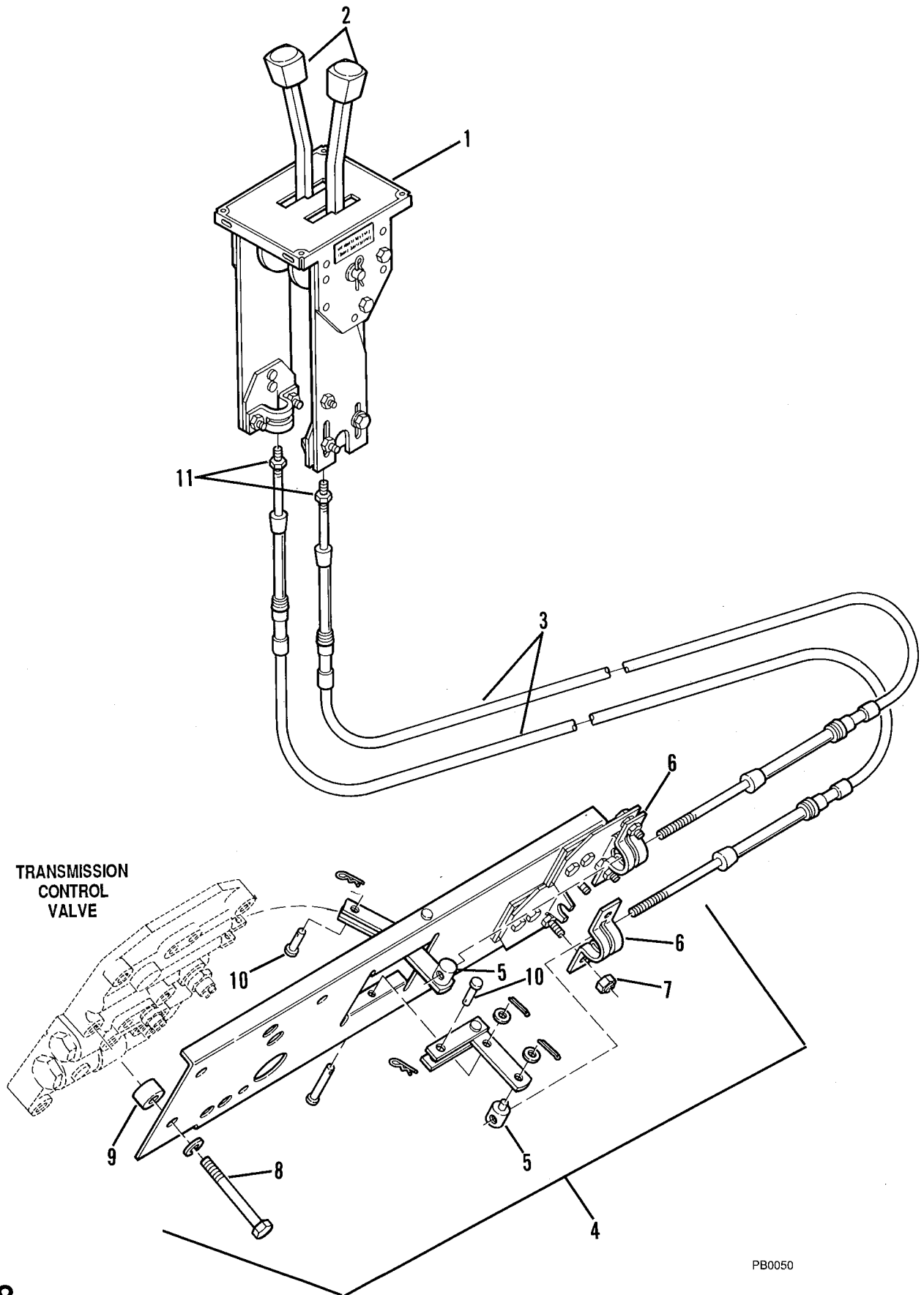


PA0083

TRANSMISSION SHIFT CONTROLS (CLARK)

Item No.	Part Number	Qty.	Description
1	7090312	1	Shifter, Transmission (Includes Item 2)
2	8580111	2	Knob
3	8160042	2	Cable, Control
3A	8305402	2	Nut, Jam 1/4-28 NF
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, Cap, Hex Hd, 1/4-20 x 1 grade 5
8	8033242	2	Swivel
9	8033243	2	Pin, Clevis
10	8305601	4	Nut, Lock
11	8303771	4	Screw, Cap, Hex Hd, 3/8-16 x 2-1/2 grade 5
12	8307005	4	Lockwasher, 3/8

TRANSMISSION SHIFT CONTROLS (FUNK)



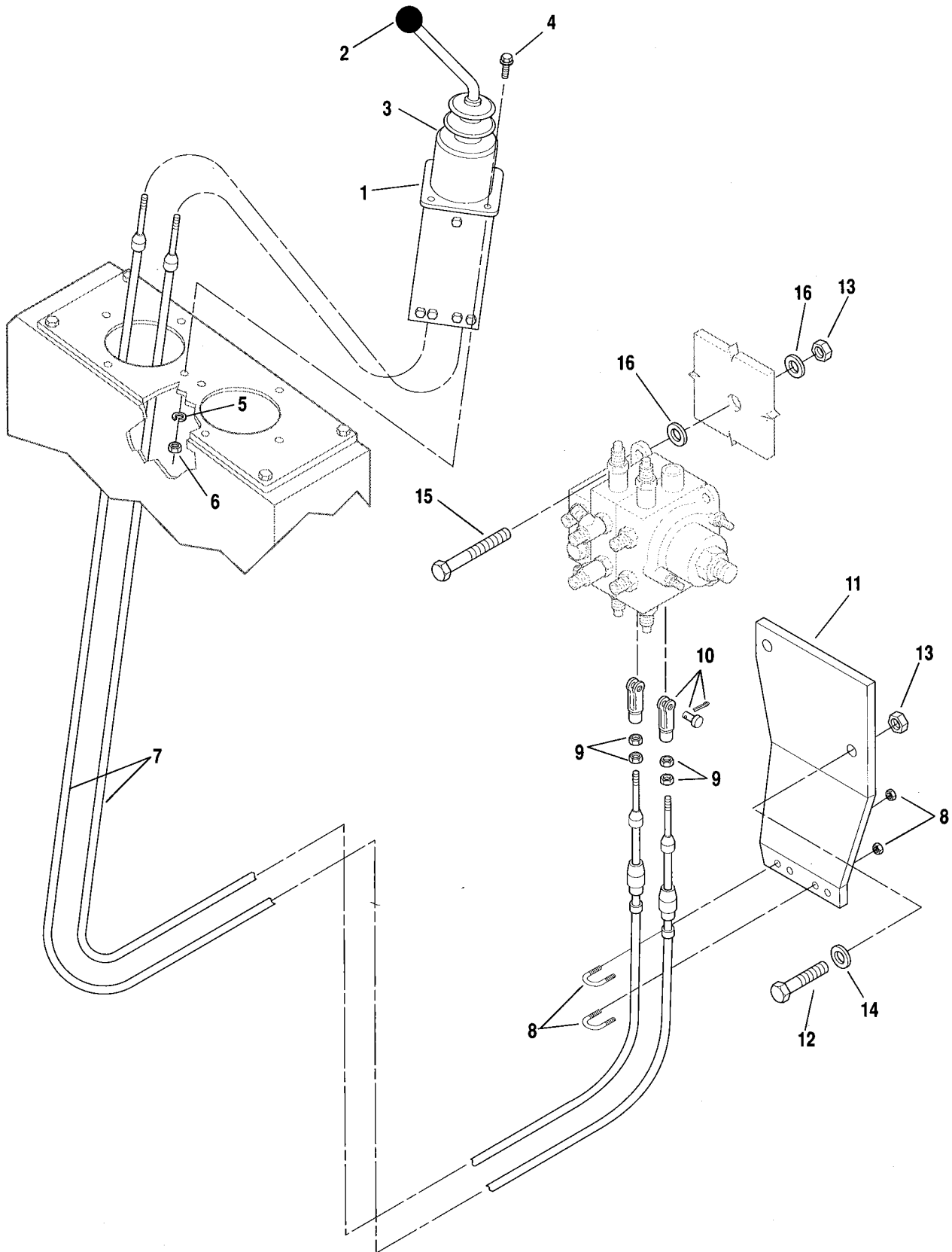
TRANSMISSION
CONTROL
VALVE

PB0050

TRANSMISSION SHIFT CONTROLS (FUNK)

Item No.	Part Number	Qty.	Description
1	8160411	1	Shifter, Transmission (Includes Item 2)
2	8580111	2	Knob
3	8160042	2	Cable, Control
4	8160420	1	Transmission Connector Kit (Includes items 5 thru 10 plus all other parts not identified with an item number)
5	8033242	2	Swivel
6	8033241	2	Clamp
7	8033246	2	Nut, Lock
8	8303766	4	Screw, Hex Hd Cap, 5/16-18 x 2-3/4
9	8033244	4	Spacer
10	8033245	2	Pin, Clevis
11	8305402	2	Nut, Jam 1/4NF

BOOM RAISE/LOWER & EXTEND/RETRACT CONTROL (CABLE CONTROL JOYSTICK)



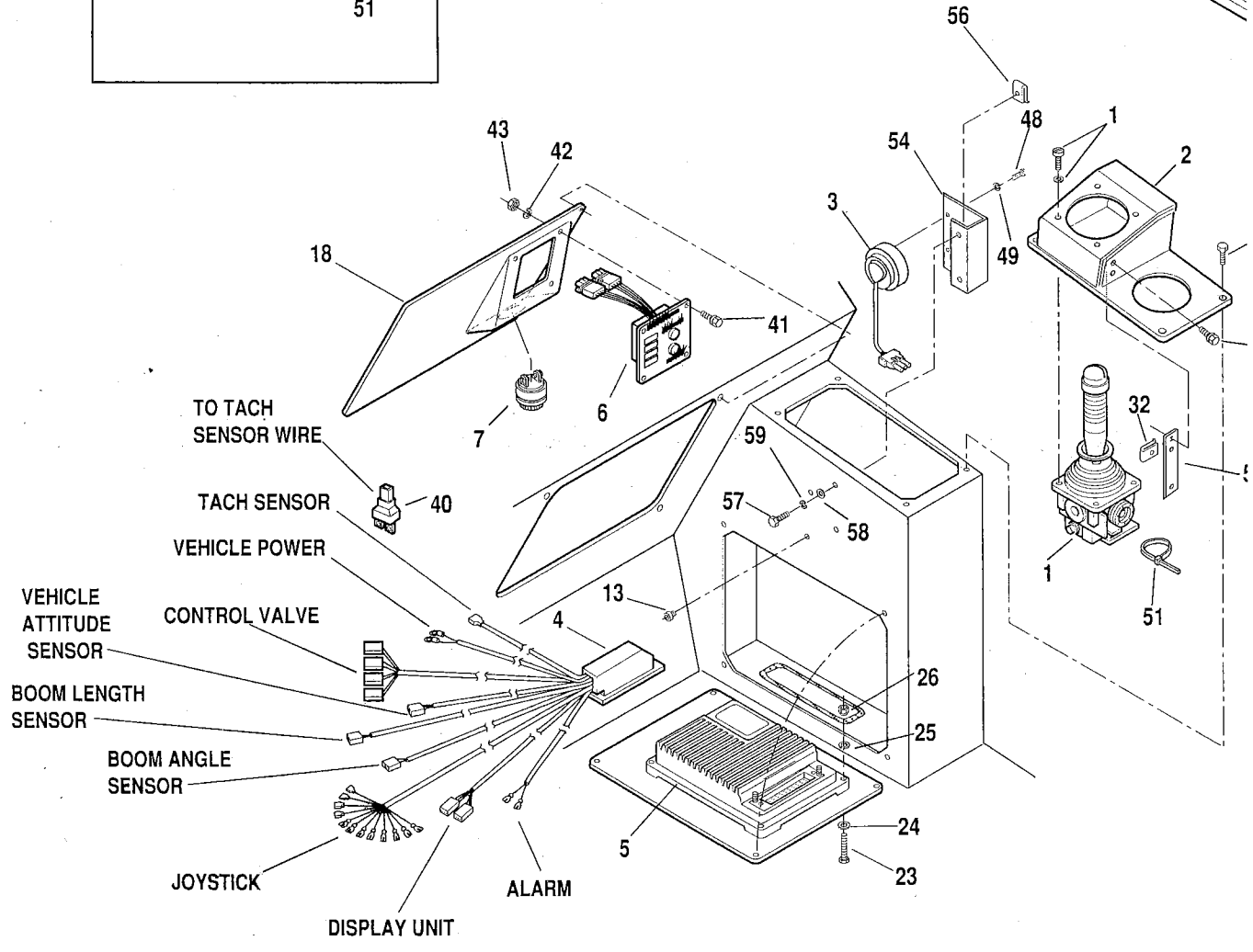
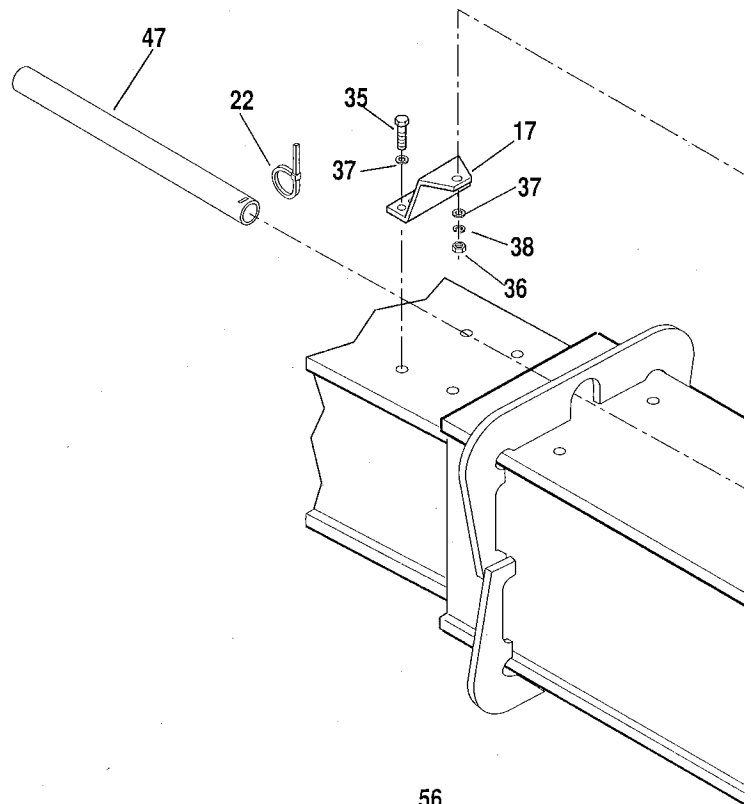
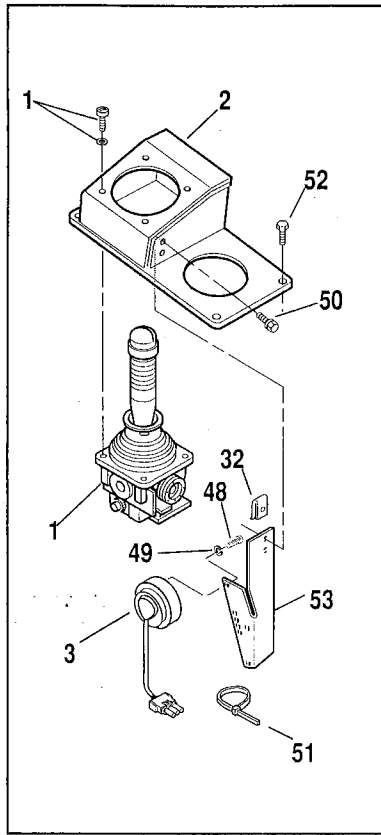
PB 0061

BOOM RAISE/LOWER & EXTEND/RETRACT CONTROL (CABLE CONTROL JOYSTICK)

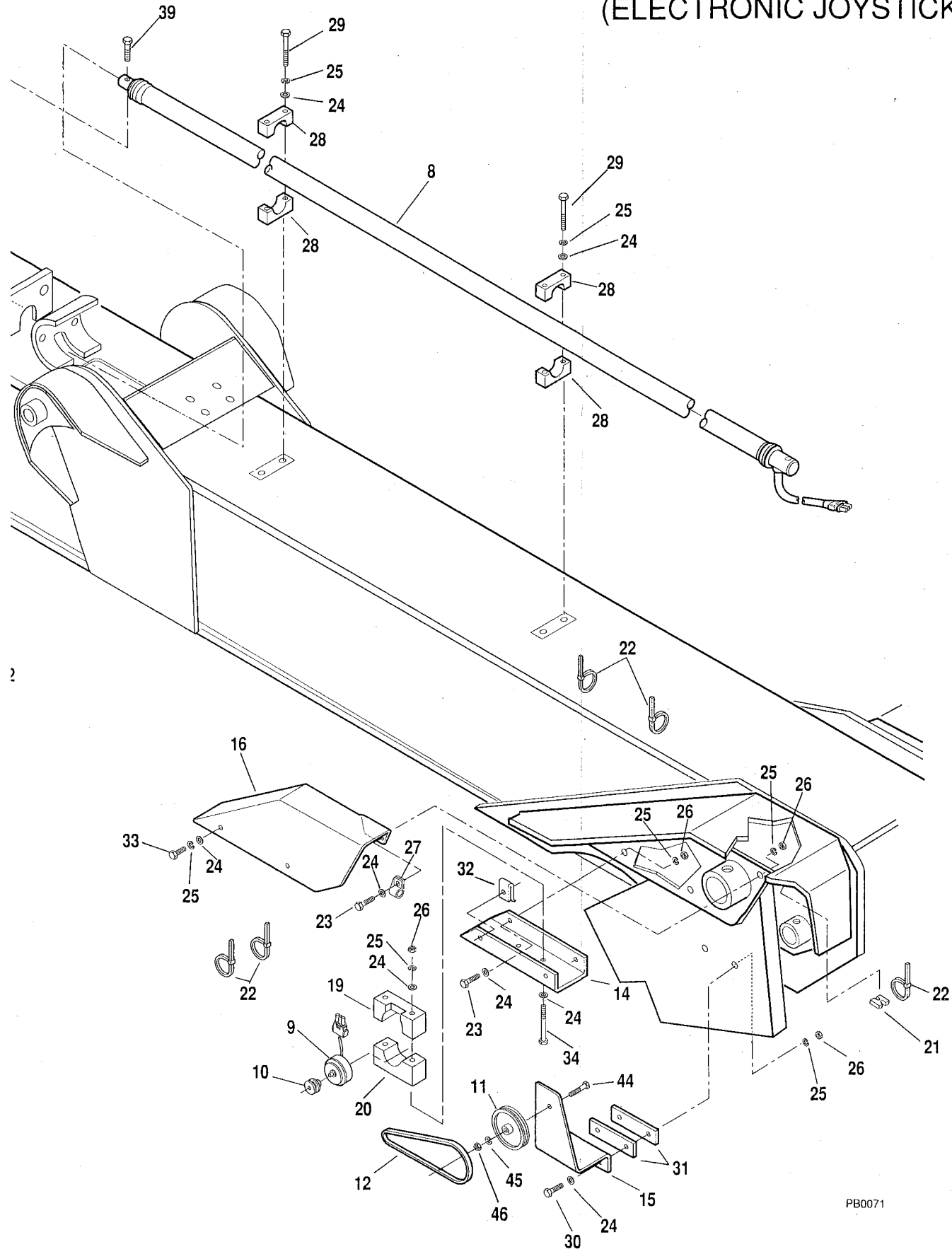
Item No.	Part Number	Qty.	Description
1	7080843	1	Joystick (Includes Items 2 and 3)
2	8580110	1	Knob
3	8160419	1	Boot
4	8303553	4	Screw, Flange Head, 1/4 x 1.25
5	8307002	4	Lockwasher, 1/4
6	8305004	4	Nut, Hex, 1/4
7	8160053	2	Cable, Control
8	8160615	2	Clamp w/Nuts
9	8305402	4	Nut, Jam 1/4 NF
10	8301439	2	Clevis (w/Pin)
11	7089922	1	Bracket, Cable Anchor
12	8303658	2	Screw, Hex Hd Cap, 1/2-13 x 2.00 Gr 5
13	8305644	5	Nut, Hex Lock, 1/2-13
14	8307112	8	Washer, Flat 1/2
15	8303692	3	Screw, Hex Hd Cap, 1/2-13 x 2.75 Gr 5

BOOM RAISE/LOWER & EXTEND/ RETRACT CONTROL (ELECTRONIC JOYSTICK W/TLC)

Item No.	Part Number	Qty.	Description
1	8224016	1	Joystick, Electronic, w/ 50° Gate (See Page 7. 9 for Breakdown)
2	7088533	1	Cover, Console
3	7088232	1	Sensor, Vehicle Attitude
4	7086772	1	Harness, Wire
5	7090072	1	Controller, Electronic
6	7088122	1	Display
7	7088202	1	Horn, Signal
8	7088212	1	Sensor, Boom Length
9	7088222	1	Sensor, Boom Angle
10	7088242	1	Pulley, 30 Grooves
11	7088252	1	Pulley, 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	7088092	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	14	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	1	Support
28	8769147	2	Clamp, Single Set 1-1/2 ID
29	8303703	4	Screw, Hex Hd Cap, 1/4-20 x 2.50 Gr 5
30	8303758	2	Screw, Hex Hd Cap, 1/4-20 x 2 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	8303675	2	Screw, Hex Hd Cap, 3/8-16 x 1.25 Gr 5
36	8305008	1	Nut, Hex, 3/8-16
37	8307204	3	Washer, Flat, 3/8
38	8307005	1	Lockwasher, 3/8
39	8303679	1	Screw, Hex Hd Cap, 3/8-16 x 1.75 Gr 5
40	8220060	1	Adapter
41	8303981	4	Screw, Mach Washer Hd, 10-24 x .50
42	8307003	4	Lockwasher, #10
43	8305002	4	Nut, Hex, #10-24
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	7090641	1	Guard
48	8310022	2	Screw, Machine #4-40 x 3/8
49	8307050	2	Lockwasher #4
50	8303119	2	Screw, Hex Flange, 1/4-20 x .625
51	8584001	1	Tie Wrap
52	8033058	4	Screw, Hex Hd Cap, 1/4-20 x .75
			USED ON EARLY MODELS ONLY
53	7090781	1	Conversion Kit, Attitude Sensor Mount (Includes items 54 thru 59)
			USED ON LATER MODELS ONLY
54	7090432	1	Bracket, Attitude Sensor Mount
55	7090461	1	Support
56	8310001	2	Nut, Retainer 1/4-20
57	8310026	2	Screw, Hex Hd Cap, 1/2-20 x 3/4 Gr5
58	8307202	2	Washer, Flat 1/4
59	8307002	2	Lockwasher #4

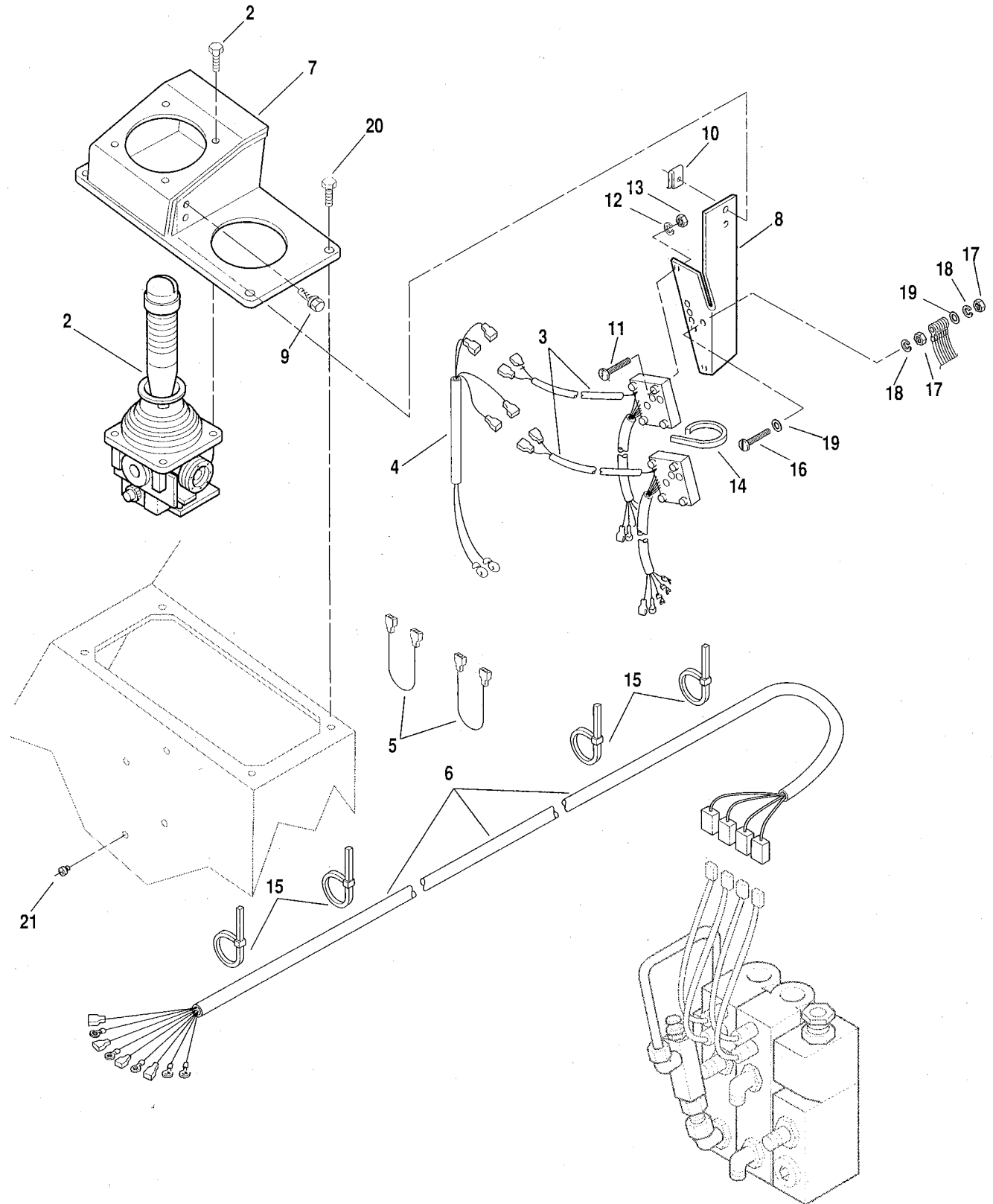


BOOM RAISE/LOWER & EXTEND/RETRACT CONTROL (ELECTRONIC JOYSTICK w/TLC)



PB0071

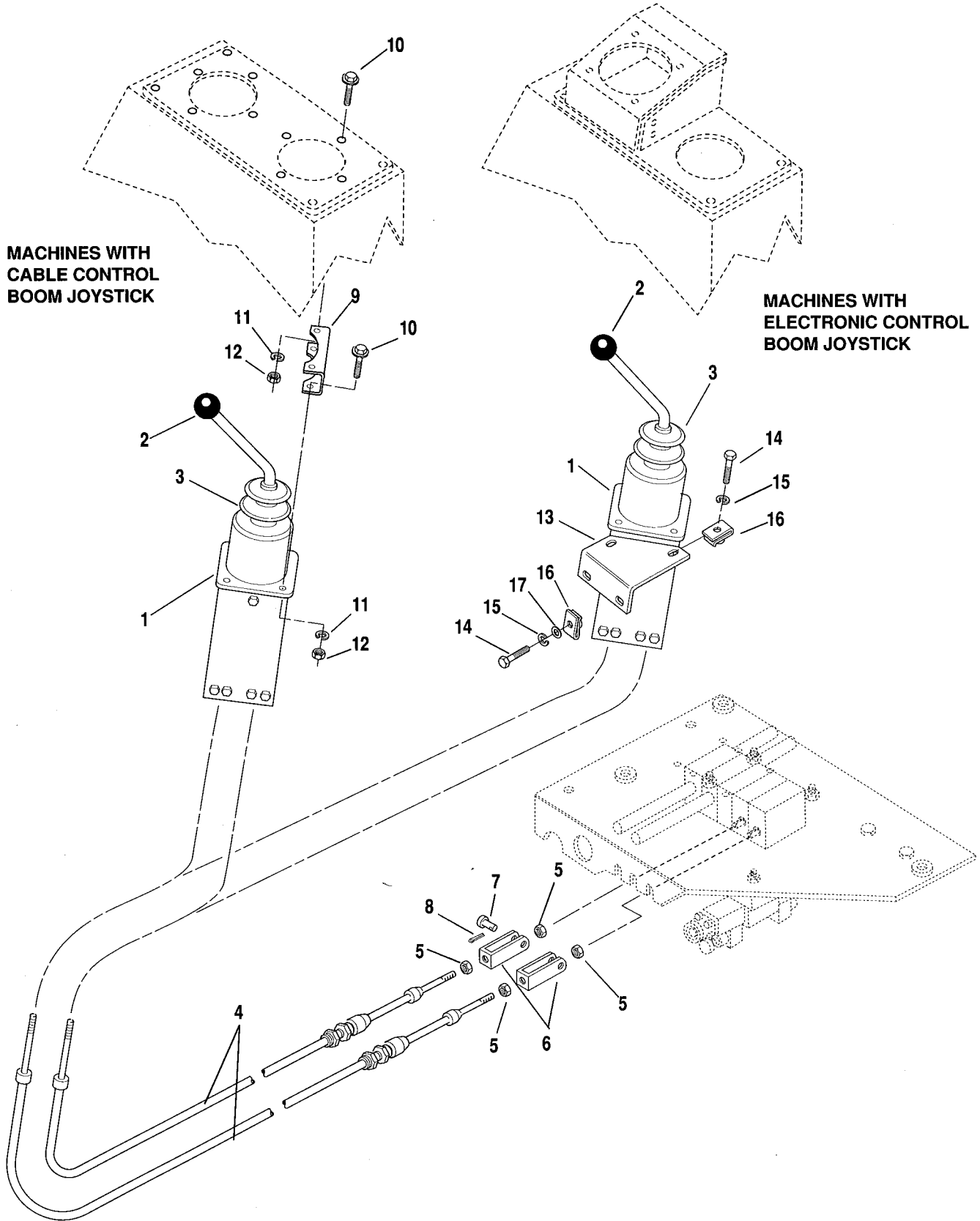
BOOM RAISE/LOWER & EXTEND/RETRACT CONTROL (ELECTRONIC CONTROL JOYSTICK W/O TLC)



BOOM RAISE/LOWER & EXTEND/RETRACT CONTROL (ELECTRONIC CONTROL JOYSTICK W/O TLC)

Item No.	Part Number	Qty.	Description
1	7087383	1	Electronic Control Joystick (Includes items 2 thru 5)
2	8224016	1	Joystick, Electronic (See Figure 7.9 for 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	8033119	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

FRAME LEVEL & GRILLE TILT CONTROL

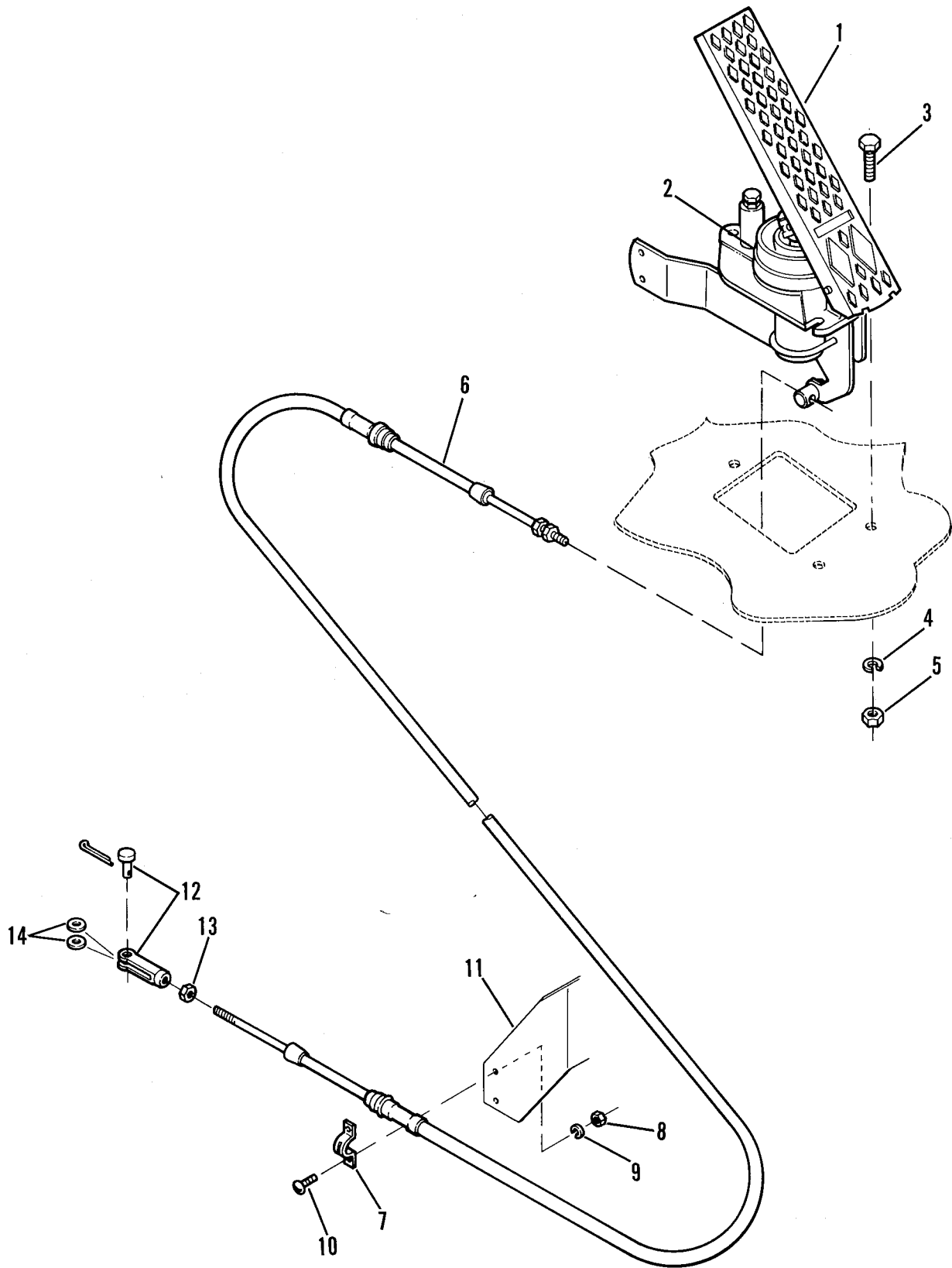


PB 0091

FRAME LEVEL & GRILLE TILT CONTROL

Item No.	Part Number	Qty.	Description
1	7084543	1	Joystick (Includes Items 2 and 3)
2	8580110	1	Knob
3	8160419	1	Boot
4	8160060	2	Cable, Control, 30" Long
5	8305005	4	Nut, Hex 1/4-28 NF
6	8160617	2	Clevis, Cable
7	8301443	2	Pin Clevis, 3/16 x 1
8	8302470	2	Pin, Hair, 1/16
FOR MACHINES WITH CABLE CONTROL BOOM JOYSTICK			
9	7080942	2	Spacer
10	8303553	8	Screw, Flange Hd, 1/4-20 x 1-1/4
11	8307002	8	Lockwasher 1/4
12	8305004	8	Nut, Hex 1/4-20
FOR MACHINES WITH ELECTRONIC CONTROL BOOM JOYSTICK			
13	7088942	2	Bracket
14	8310026	8	Screw, Hex Hd Cap, 1/4-20 x 3/4
15	8307002	8	Lockwasher 1/4
16	8310001	8	Nut, Retainer 1/4-20
17	8307202	4	Washer, Flat 1/4

THROTTLE PEDAL CONTROL

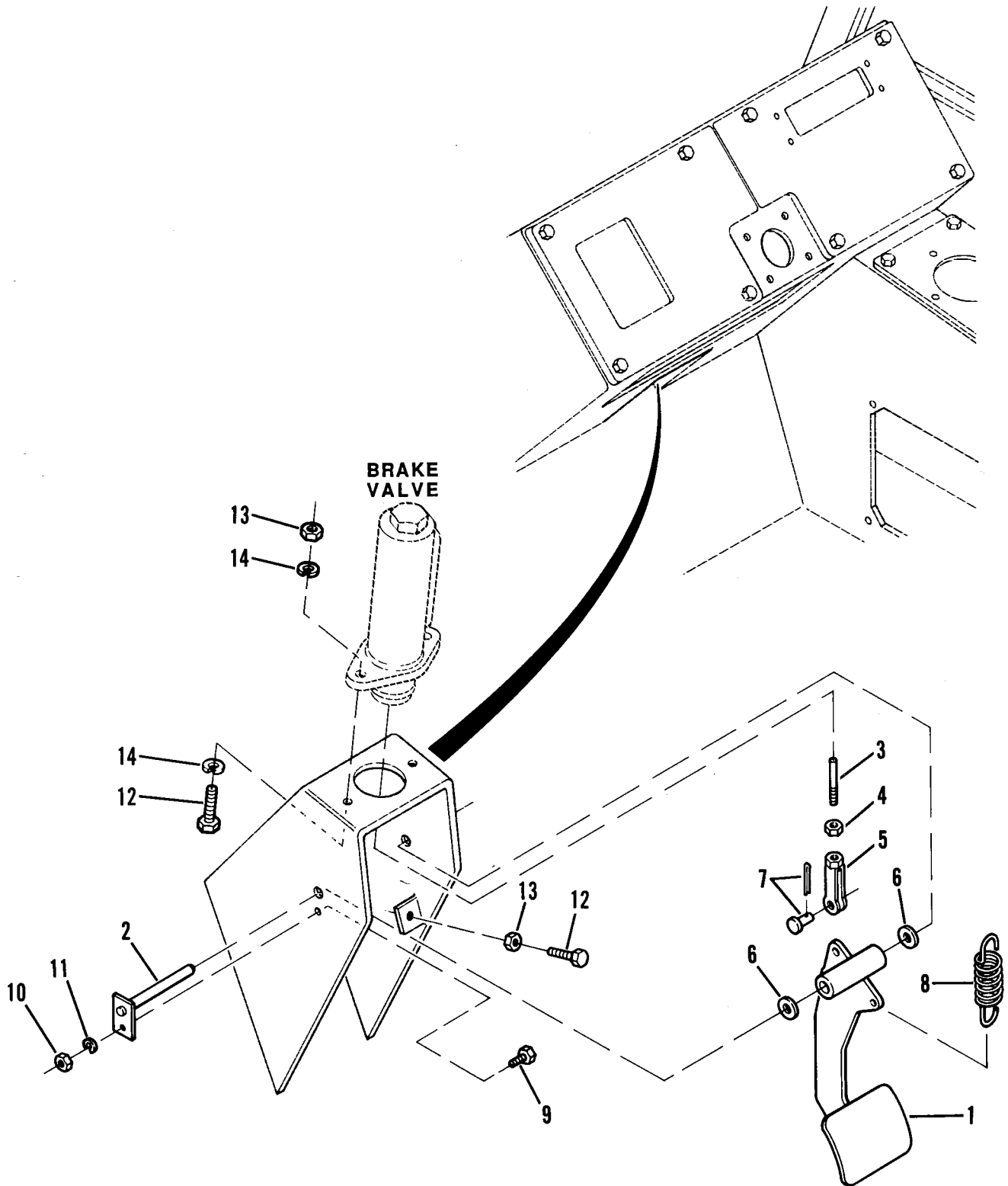


PA0113

THROTTLE PEDAL CONTROL

Item No.	Part Number	Qty.	Description
1	8162003	1	Pedal, Throttle (Includes item 2)
2	8033178	1	Bellows, Throttle Pedal
3	8303553	3	Screw, Flange Hd, 1/4NC x 1-1/4 grade 5
4	8307002	3	Lockwasher 1/4
5	8303004	3	Nut, Hex, 1/4
6	8160046	1	Cable, Throttle (Perkins & John Deere)
	8160037	1	Cable, Throttle (Ford & Deutz)
7	8160610	1	Clamp Cable
8	8305002	4	Nut, Hex, #10-24
9	8307003	4	Lockwasher, #10
10	8303837	4	Screw, Round Hd, #10-24 x 3/4
11	7077782	1	Bracket, Throttle Cable (Perkins Shown)
	7090162	1	Bracket, Throttle Cable (Ford) (S/N 0A0660 and Before)
	7091892	1	Bracket, Throttle Cable (Ford) (S/N 0A0661 and After)
	7071132	1	Bracket, Throttle Cable (John Deere)
	7084482	1	Bracket, Throttle Cable (Deutz)
12	8301002	1	Clevis, 1/4-28 x 2 (w/pin)
13	8305402	1	Nut, Jam, 1/4NF
14	8307202	3	Washer, Flat, 1/4
15	7068711	1	Lever, Throttle Extension (Ford) (Not Shown) (S/N 0A0660 and Before Only)
	7084461	1	Lever, Throttle Extension (Deutz) (Not Shown)

SERVICE BRAKE PEDAL CONTROL

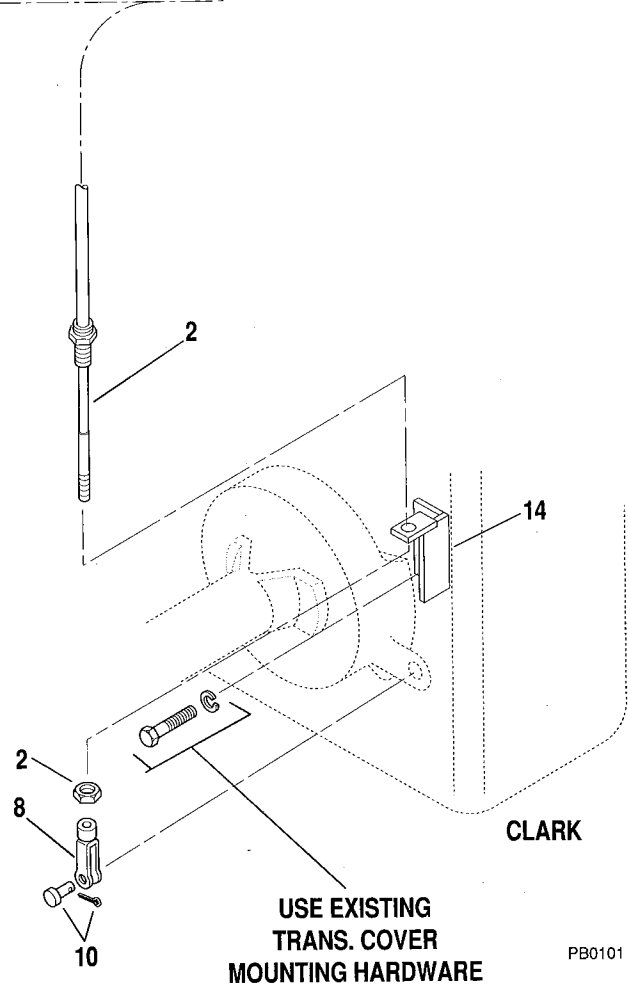
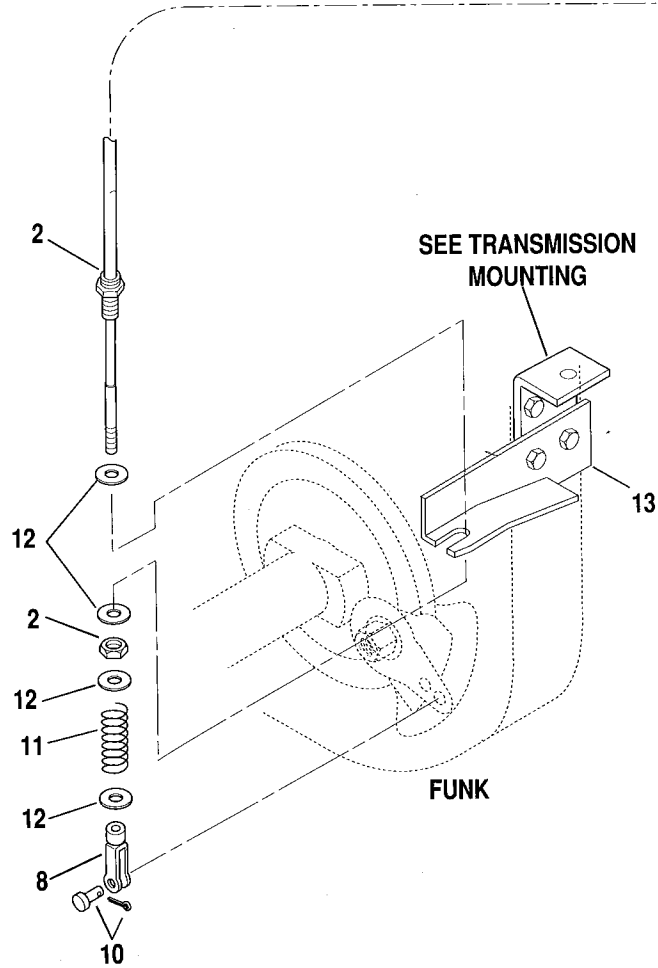
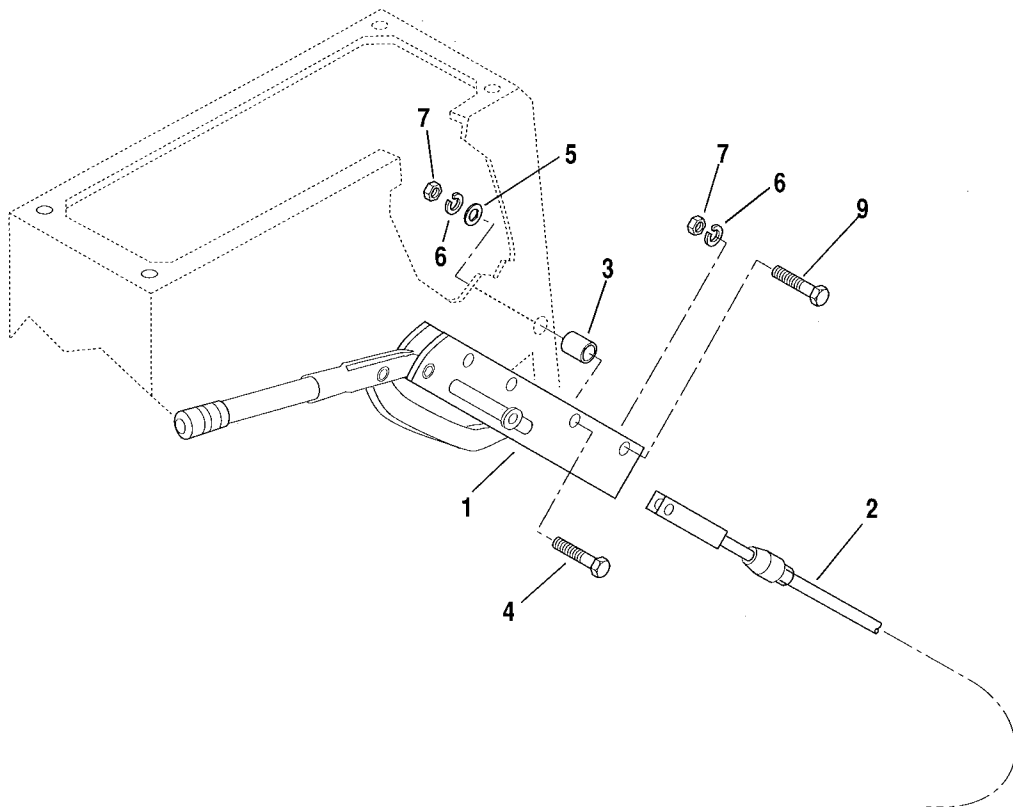


PA0113

SERVICE BRAKE PEDAL CONTROL

Item No.	Part Number	Qty.	Description
1	7080853	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	8303615	1	Screw, Cap, Hex Hd, 1/4NC x 1-1/4 grade
10	8305004	1	Nut, Hex, 1/4
11	8307002	1	Lockwasher, 1/4
12	8303534	3	Screw, Cap, Hex Hd, 3/8NC x 1-1/4 Grade 5
13	8305405	2	Nut, Jam, 3/8
14	8307005	3	Lockwasher, 3/8

PARKING BRAKE CONTROL



2.15

PB0101

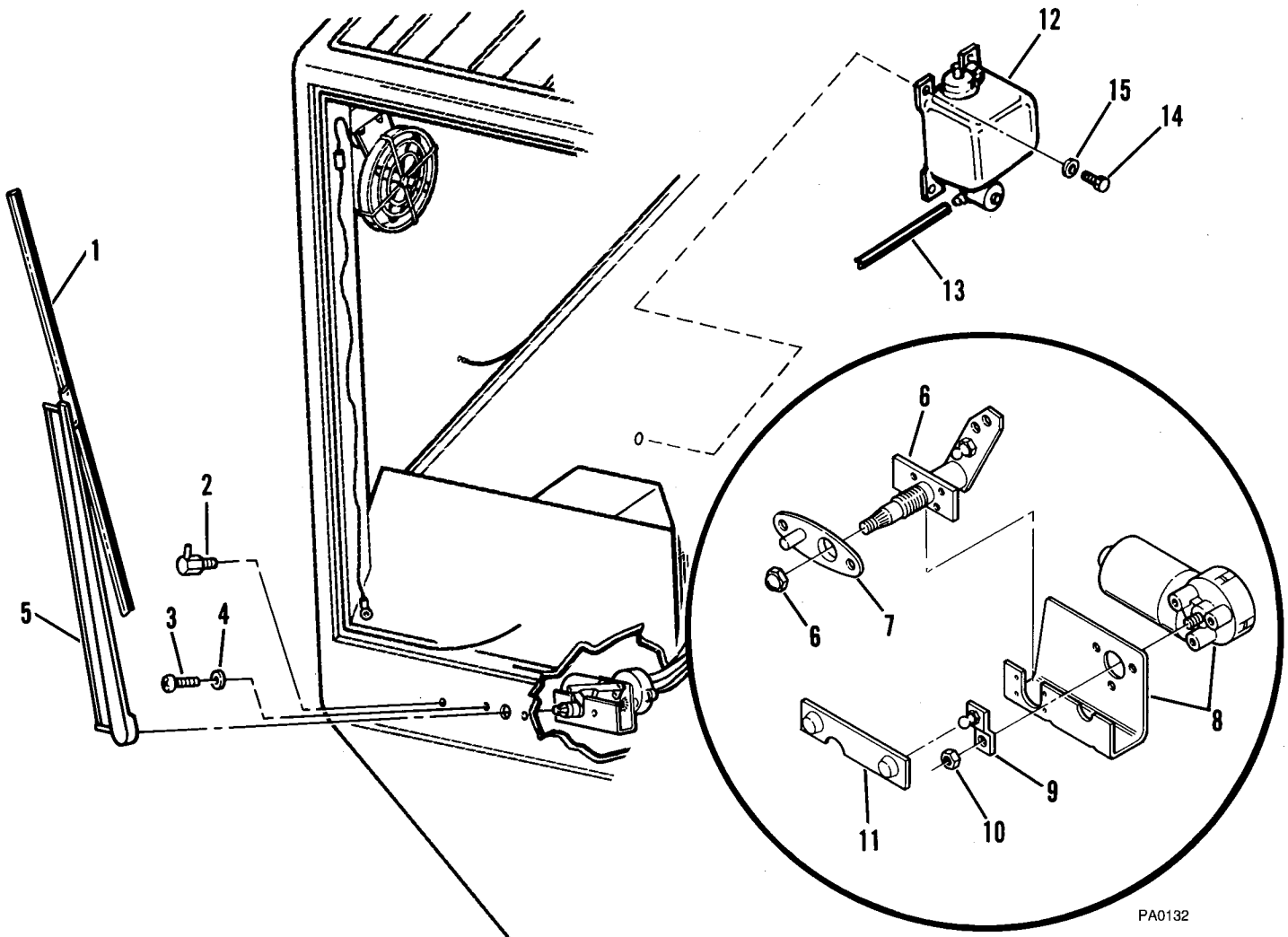
9038

Origin 2/90

PARKING BRAKE CONTROL

Item No.	Part Number	Qty.	Description
1	8162206	1	Lever Assembly, Parking Brake
2	7077003	1	Cable, Control
3	7089641	2	Spacer
4	8303766	2	Screw, Hex Hd Cap 5/16-18 x 2-3/4 Gr 5
5	8310053	2	Washer, Flat 5/16
6	8307004	3	Lockwasher, 5/16
7	8305006	3	Nut, Hex 5/16-18
8	8301004	1	Clevis
9	8303715	1	Screw, Hex Hd Cap 5/16-18 x 1-1/2 Gr5
10	8301409	1	Pin, Clevis w/cotter
11	8702140	1	Spring (Funk)
12	8307107	4	Washer, Flat 5/8 (Funk)
13	7073612	1	Bracket, Anchor (Funk)
14	7078162	1	Bracket, Anchor (Clark)

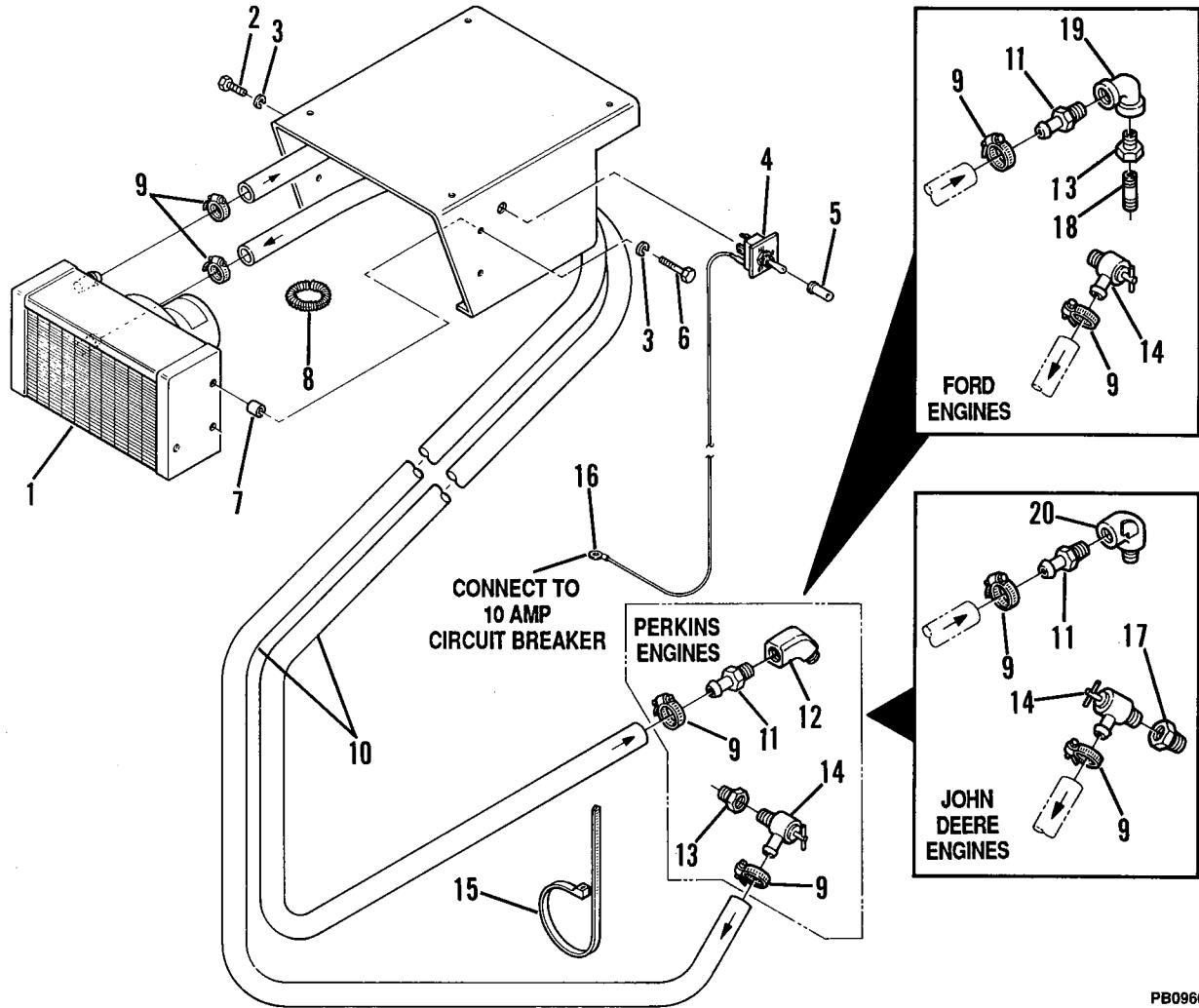
WINDSHIELD WIPER (OPTIONAL CLOSED CAB ONLY)



PA0132

Item No.	Part Number	Qty.	Description
1	8866220	1	Blade, Wiper
2	8033101	1	Nozzle, Washer
3	8033110	2	Screw, 1/4-28 x 3/4
4	8307109	2	Washer, Flat, 1/4
5	8033048	1	Arm, Wiper
6	8866218	1	Shaft and Pivot Assembly
7	8033107	1	Adapter, Panto
8	8033049	1	Motor Assembly, Wiper
9	8866217	1	Arm, Drive
10	8305006	1	Nut, Hex, 5/16-18
11	8033104	1	Link, Connection
12	8033065	1	Washer Reservoir Assembly
13	8033075	1	Hose, Washer (120")
14	8033045	3	Bolt, 1/4-20 x 1/2
15	8307109	3	Washer, Flat 1/4

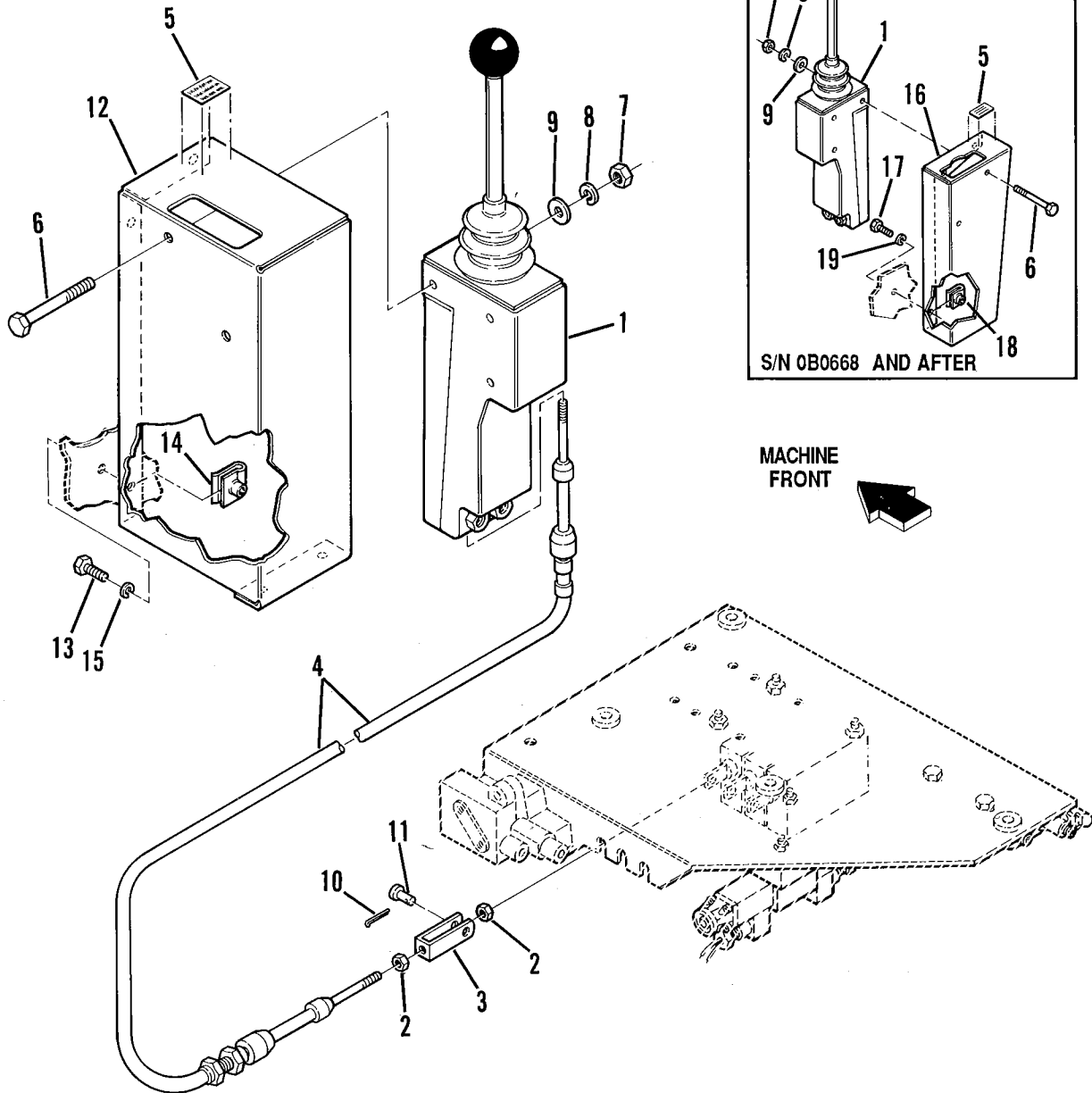
CAB HEATER



PB0960

Item No.	Part Number	Qty.	Description
1	8360008	1	Heater (Includes Items 2 and 3)
2	N.S.S.	2	Screw, Cap, Hex Hd, 1/4-20 x 1/2
3	N.S.S.	4	Lockwasher, 1/4
4	8223024	1	Switch Kit
5	8580309	1	Cap
6	8303615	2	Screw, Cap, 1/4-20 x 1-1/4
7	7772035-0008	2	Spacer, 3/4
8	8221022-0050	2	Conduit, 1/4 ID x 5
9	8405007	4	Clamp
10	8401012-1340	2	Hose
11	8420201	1	Connector, Hose, 5/8 Hose x 1/2NPT
12	8540231	1	Elbow, 45° 1/2 NPT
13	8540023	1	Reducer, 3/8NPT x 1/2NPT
14	8360005	1	Valve, Shutoff
15	8584001	4	Tie Wrap
16	8220008	1	Terminal, #10
17	8540002	1	Bushing, Reducing 1 NPT x 3/8 NPT
18	8551203	1	Nipple, pipe 3/8 NPT x 1-1/2
19	8540263	1	Elbow, 90° pipe, 1/2 NPT
20	8540218	1	Elbow, 90° street, 1/2 NPT

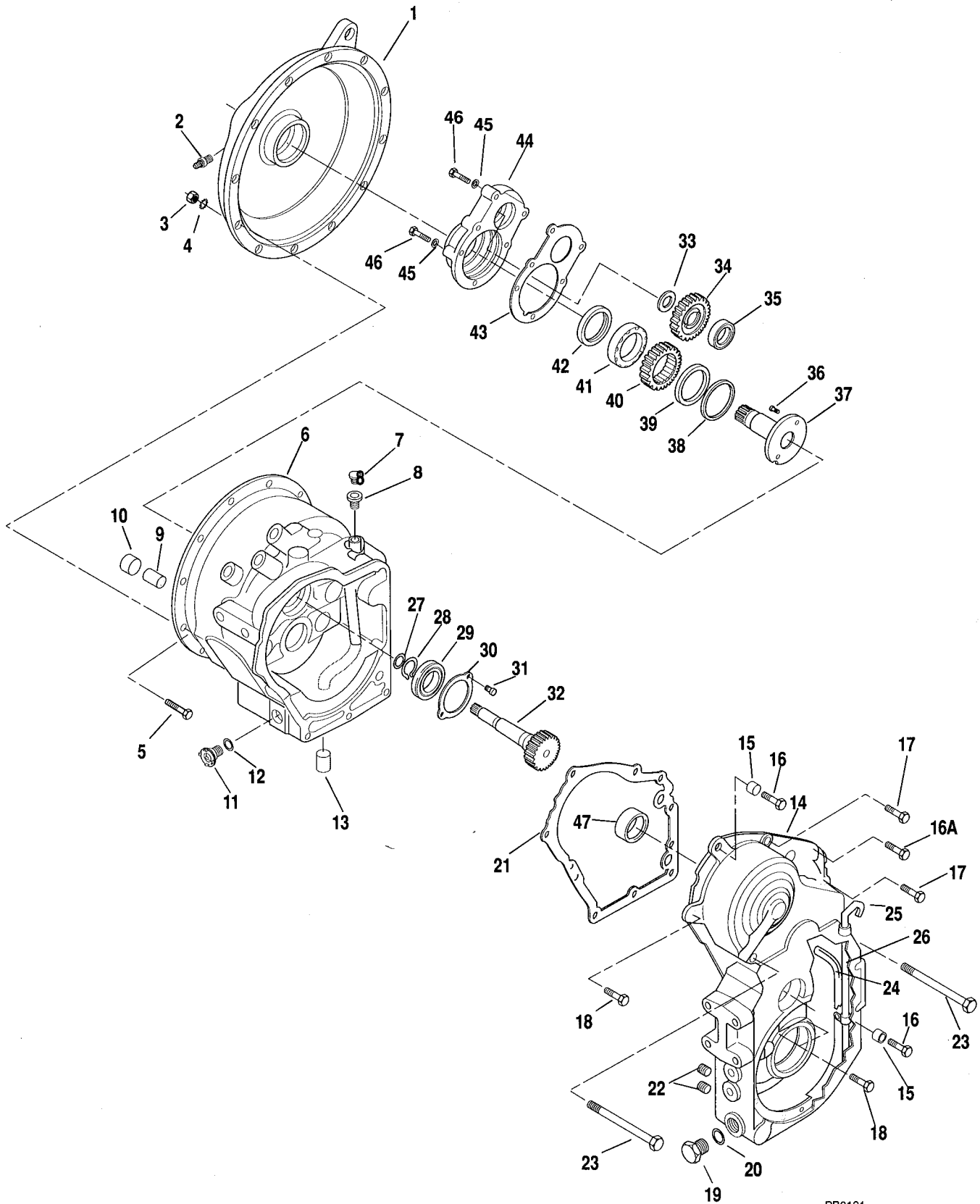
AUXILIARY HYDRAULIC CONTROL (OPTIONAL)



AUXILIARY HYDRAULIC CONTROL (OPTIONAL)

Item No.	Part Number	Qty.	Description
1	8160406	1	Controller, Auxiliary Hydraulics
2	8305005	2	Nut, Jam, 1/4-NF
3	8160617	1	Clevis, Cable
4	8160059	1	Cable
5	4105621	1	Decal
6	8303758	2	Screw, Cap, Hex Hd, 1/4-20 x 2
7	8305004	2	Nut, Hex, 1/4-20
8	8307002	2	Lockwasher, 1/4
9	8307109	2	Flat Washer, 1/4
10	8302470	1	Pin, Hair
11	8301443	1	Pin, Clevis
Items 12 thru 15 S/N 9A0550 thru S/N 0B0667			
12	7085403	1	Support, Controller
13	8303697	5	Screw, Hex Hd Cap, 5/16-18 x 3/4
14	8305906	5	Nut, Retainer
15	8307004	5	Lockwasher 5/16
Items 16 thru 19 S/N 0B0668 And After			
16	7091323	1	Support, Controller
17	8303697	3	Screw, Hex Hd Cap, 5/16-18 x 3/4
18	8305906	3	Nut, Retainer
19	8307004	3	Lockwasher 5/16

CONVERTER AND TRANSMISSION HOUSINGS (FUNK)

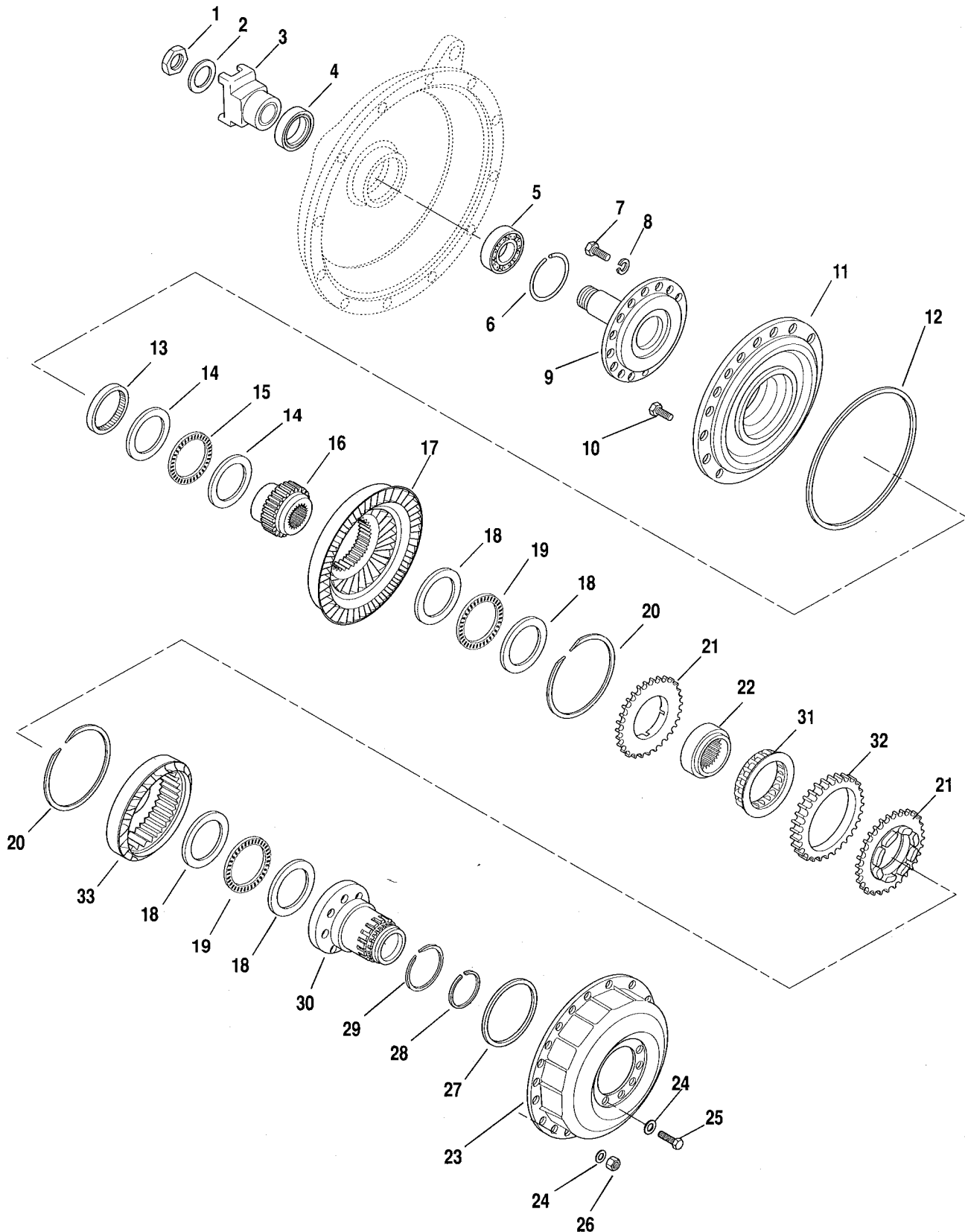


PB0121

CONVERTER AND TRANSMISSION HOUSINGS (FUNK)

Item No.	Part Number	Qty.	Description
1	CF4001899	1	Cover, Input
2	CFF66012S	1	Fitting, Grease
3	CFF13005000	12	Nut, Hex
4	CFF15003	12	Lockwasher, External Tooth
5	CFF1003028	12	Capscrew
6	CF4005430	1	Front Housing Assembly
7	CFF68105	1	Breather
8	CFF321006	1	Bushing, Reducer
9	CF40A1556	1	Converter Release Valve Assembly
10	CFF1900316	1	Plug, Pipe
11	CF40A6018	1	Plug, Sump Screen
12	CF4006404	1	Gasket
13	CFF1900312	1	Plug, Pipe
14	CF4104019	1	Rear Housing Assembly
15	CF4001123	2	Bushing, Locating
16	CFF1005032	1	Capscrew
16A	CFF1005028	1	Capscrew
17	CFF1005040	2	Capscrew
18	CFF1005036	4	Capscrew
19	CF4004531	1	Drain Plug Assembly
20	CFF37060916	1	O-Ring
21	CF4104067	1	Gasket, Main
22	CFF190034	2	Plug, Pipe
23	CFF1005088	2	Capscrew
24	CF4004530	1	Tube, Suction
25	CF4104010	1	Dipstick
26	CF4005072	1	Tube, Dipstick
27	CF4000855	1	Ring, Seal
28	CFF39010156	1	Ring, Snap
29	CFF41308R	1	Bearing
30	CF4004100	1	Retainer, Plate
31	CFF100108	2	Capscrew
32	CF4004990	1	Shaft, Input (23T)
33	CFF5551625	1	Thrust, Race
34	CF4004111	1	Gear, Aux. Pump
35	CFF621305K	1	Bearing
36	CFF1121810	2	Screw, Cap
37	CF40A4009	1	Support, Turbine Stator
38	CFF5524458	1	Race, Thrust
39	CFF5514458	1	Bearing, Needle Thrust
40	CF4004112	1	Gear, Aux. Pump Drive
41	CFF40113	1	Bearing
42	CF4003091	1	Seal, Oil
43	CF4004700	1	Gasket, Housing
44	CF4004119	1	Housing, Impeller Gear
45	CFF18002	6	Washer
46	CFF1002032	6	Screw, Cap
47	CF4005296	1	Sleeve Bore, Rear Cover

CONVERTER GROUP (FUNK)

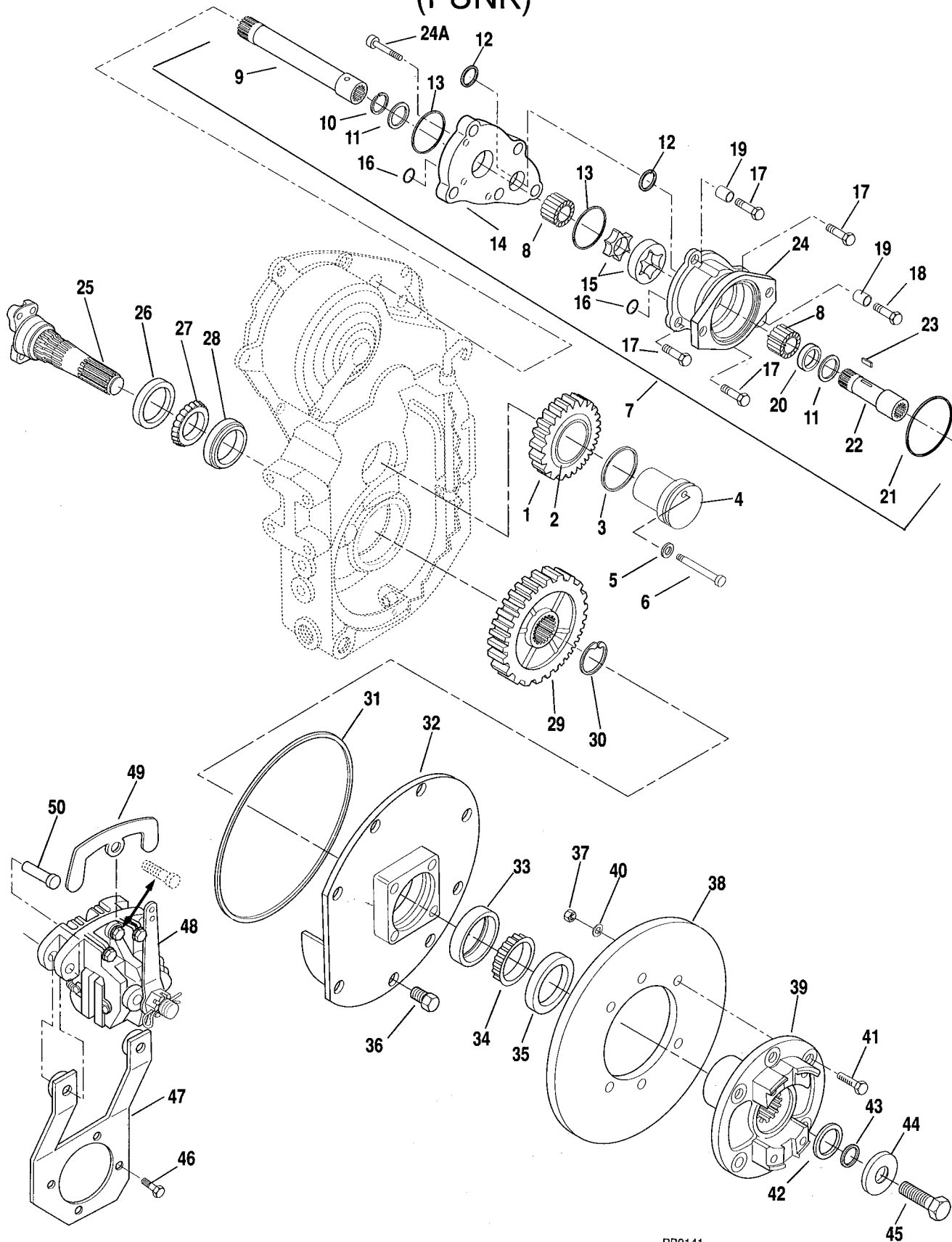


PB0131

CONVERTER GROUP (FUNK)

Item No.	Part Number	Qty.	Description
1	CFF79117G5	1	Nut
2	CF4005552	1	Washer, Flat
3	CF4101231	1	Yoke, Front
4	CFF65181	1	Seal, Oil
5	CFF40208S	1	Bearing
6	CFF39000315	1	Ring, Snap
7	CFF1003020	12	Screw, Cap
8	CFF16202	12	Lockwasher
9	CF4145198	1	Shaft, Converter Input
10	CFF1002520H8NP	20	Capscrew
11	CF4045767	1	Front Cover Assembly
12	CF4045236	1	Seal
13	CFF460268	1	Bearing
14	CFF5543244	2	Race, Thrust
15	CFF5503244	1	Bearing, Needle Thrust
16	CF4045887	1	Hub, Turbine
17	CF4045884	1	Turbine
18	CF4045901	4	Washer, Thrust
19	CFF5513650	2	Bearing, Needle Thrust
20	CF4003456	2	Ring, Internal Retaining
21	CF4045899	2	Retainer, Clutch
22	CF4045493	1	Race, Inner Clutch
23	CF4045577	1	Impeller
24	CF4003680	28	Washer, Flat
25	CFF100208	8	Bolt, Place
26	CFF1300400U	20	Nut, Hex
27	CFF37010045	1	O-Ring
28	CF4000497	1	Seal, Ring
29	CFF80100231	1	Ring, Retaining
30	CF4045607	1	Hub, Impeller
31	CF4045081	1	Sprag Clutch Assembly
32	CF4045726	1	Race, Outer Clutch
33	CF4045911	1	Stator

TRANSMISSION IDLER, PUMP, OUTPUT & BRAKE (FUNK)

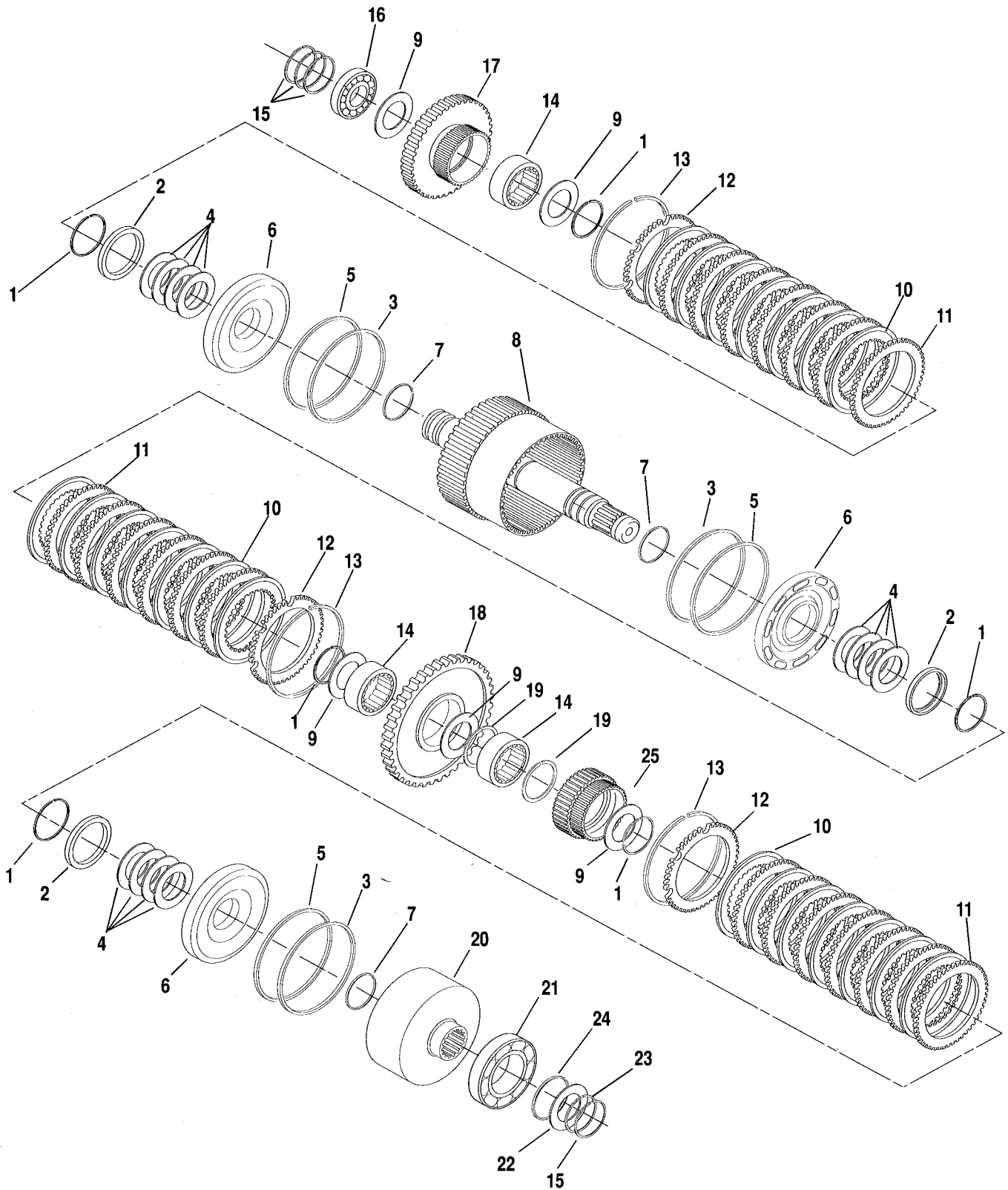


PB0141

TRANSMISSION IDLER, PUMP, OUTPUT & BRAKE (FUNK)

Item No.	Part Number	Qty.	Description
1	CF4004519	1	Gear, Idler
2	CFF58602	1	Bearing
3	CFF37030231	1	O-Ring
4	CF4004518	1	Shaft, Idler
5	CFF18005	1	Washer
6	CFF1005088	1	Capscrew
7	CF40A4282	1	Pump Assembly (Includes Items 8 thru 24A)
8	CFF460168	2	Bearing
9	CF4004952	1	Drive Shaft Assembly
10	CFF81598	1	Ring, Retaining
11	CFF5531625	2	Race, Thrust
12	CFF37030220	2	O-Ring
13	CFF37020152	2	O-Ring
14	CF40A4279	1	Plate, Wear
15	CF4003256	1	Gerotor, Pump
16	CFF37010014	2	O-Ring
17	CFF1003036	4	Screw, Cap
18	CFF1003040	1	Screw, Cap
19	CF4004464	2	Bushing, Locating
20	CFF65257	1	Seal, Oil
21	CFF37030242	1	O-Ring
22	CF40A4148	1	PTO Shaft Assembly
23	CF4004339	1	Key, PTO Shaft
24	CF40A4281	1	Housing, Pump PTO
24A	CFF1141412	2	Screw, Soc Head
25	CF4004551	1	Shaft, Output
26	CFF65239	1	Seal, Oil
27	CFF58051	1	Cone, Bearing
28	CFF58544	1	Cup, Bearing
29	CF4004550	1	Gear, Output
30	CFF39010287	1	Ring, Snap
31	CFF37030276	1	O-Ring
32	CF4004731	1	Retainer, Bearing
33	CFF58540	1	Cup, Bearing
34	CFF58047	1	Cone, Bearing
35	CFF65270	1	Seal, Oil
36	CFF1005020	8	Capscrew
37	CFF13006000	6	Nut, Hex
38	CF40A4255	1	Disk, 11"
39	CF4004545	1	Yoke
40	CFF16202	6	Washer, Lock
41	CFF1003520	6	Capscrew
42	CF4004534	1	Shim Pack (Includes 2 of each of the following sizes- .002, .003, .005, .010, & .020)
43	CF4001217	1	O-Ring, Flange
44	CF4010464	1	Washer, Yoke
45	CFF1007520H8	1	Screw, Cap
46	CFF1005024	4	Capscrew
47	CF40A4254	1	Bracket, Support
48	CF4003783	1	Caliper Assembly w/Pads
49	CF40A1311	1	Retainer, Pin
50	CFF2400775	2	Pin, Clevis
			KITS
	8102406	1	Service Kit, Brake Pads

TRANSMISSION GEAR AND CLUTCH (FUNK)

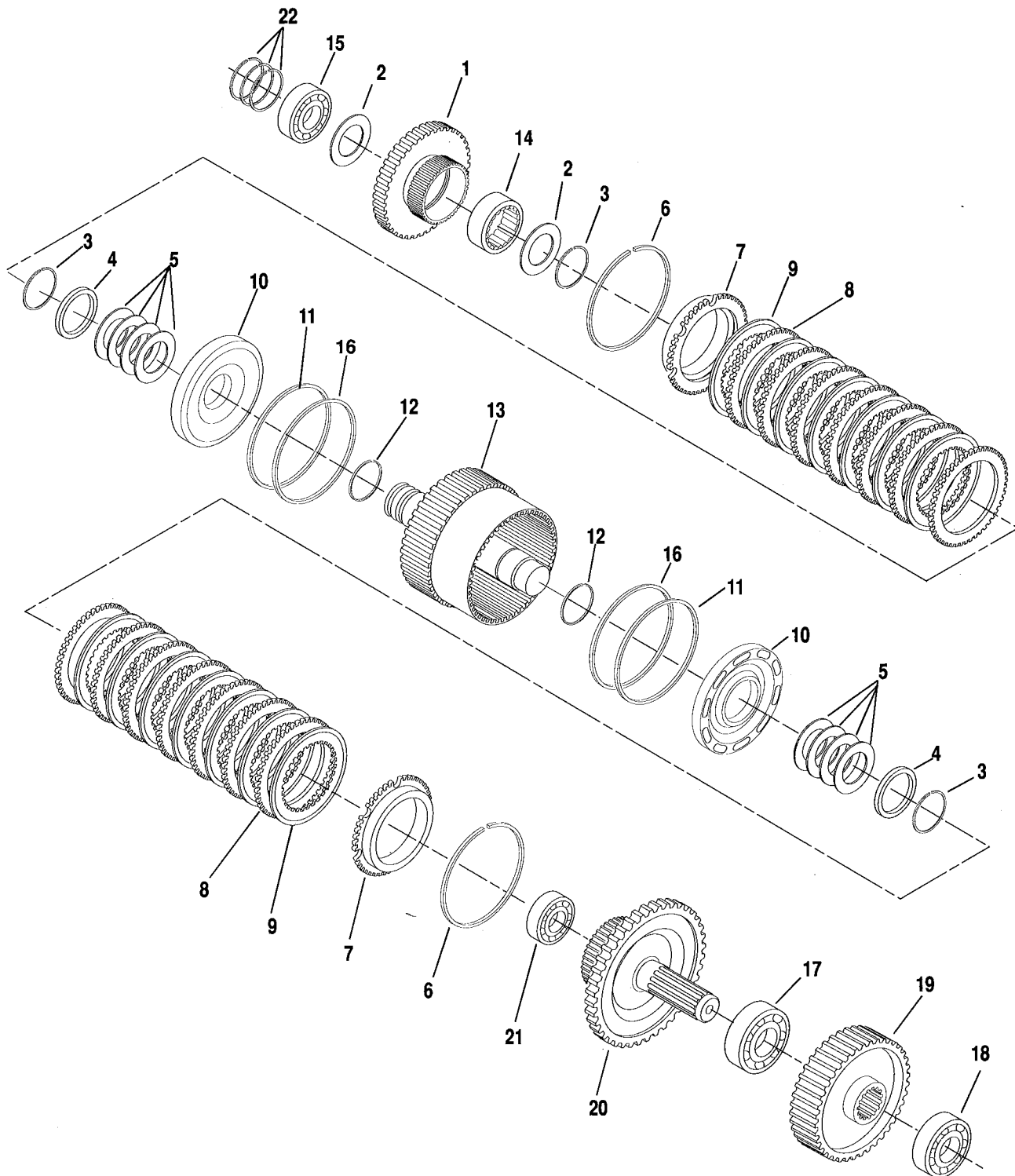


PB0151

TRANSMISSION GEAR AND CLUTCH (FUNK)

Item No.	Part Number	Qty.	Description
1	CFF81687	6	Ring, Retainer
2	CF4004957	3	Retainer
3	CF4005413	3	Seal, Lip Ring
4	CF4007180	12	Spring
5	CF4104077	3	Ring, Backup
6	CF4104012	3	Piston, Clutch
7	CFF37020131	3	O-Ring
8	CF4005322	1	Clutch Shaft Assembly
9	CF4004144	5	Washer, Thrust
10	CF4005524	21	Plate, Clutch
11	CF40RC7951	21	Plate, Clutch Separator
12	CF4004839	3	Retainer, Clutch
13	CF4003640	3	Ring, Snap
14	CFF4903016	3	Bearing
15	CFF400855	4	Seal, Ring
16	CF4003778	1	Bearing
17	CF4004161	1	Gear & Hub Assembly (33T)
18	CF4004184	1	Gear & Hub Assembly (53T)
19	CFF81500225	2	Ring, Snap
20	CF40A4034	1	Hub Clutch Assembly
21	CFF40211	1	Bearing
22	CFF5532435	1	Race, Thrust
23	CFF81650	1	Ring, Snap
24	CFF37020129	1	O-Ring
25	CF4004670	1	Gear & Hub Assembly (21T)

TRANSMISSION GEAR AND CLUTCH 2nd STAGE (FUNK)

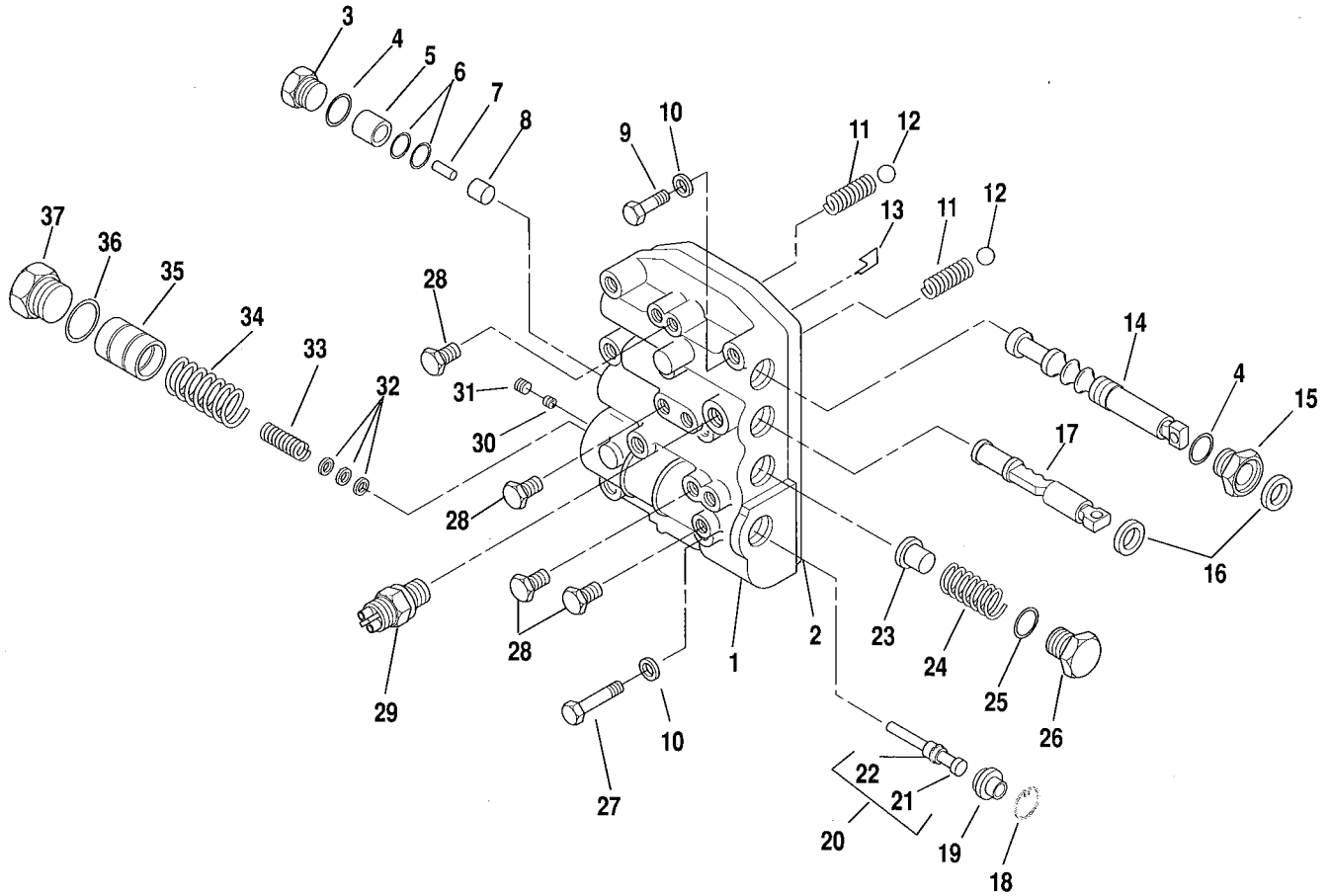


PB0161

TRANSMISSION GEAR AND CLUTCH 2nd STAGE (FUNK)

Item No.	Part Number	Qty.	Description
1	CF4004161	1	Gear & Hub Assembly (33T)
2	CF4004144	2	Washer, Thrust
3	CFF81687	3	Ring, Retainer
4	CF4004957	2	Ring, Ret. Snap
5	CF4007180	8	Spring
6	CF4003640	2	Ring, Snap
7	CF4004839	2	Retainer, Clutch
8	CF40RC7951	14	Plate, Clutch Separator
9	CF4005524	14	Plate, Clutch
10	CF4104012	2	Piston, Clutch
11	CF4104077	2	Ring, Backup
12	CFF37020131	2	O-Ring
13	CF4005321	1	Outer Shaft Assembly
14	CFF4903016	1	Bearing
15	CF4003778	1	Bearing
16	CF4005413	2	Seal, Ring
17	CFF621309W	1	Bearing
18	CFF41209	1	Bearing
19	CF4004520	1	Gear, (36T)
20	CF4004507	1	Shaft & Gear Assembly
21	CFF40108	1	Bearing
22	CF4000855	3	Seal, Ring

CONTROL VALVE ASSEMBLY (FUNK)

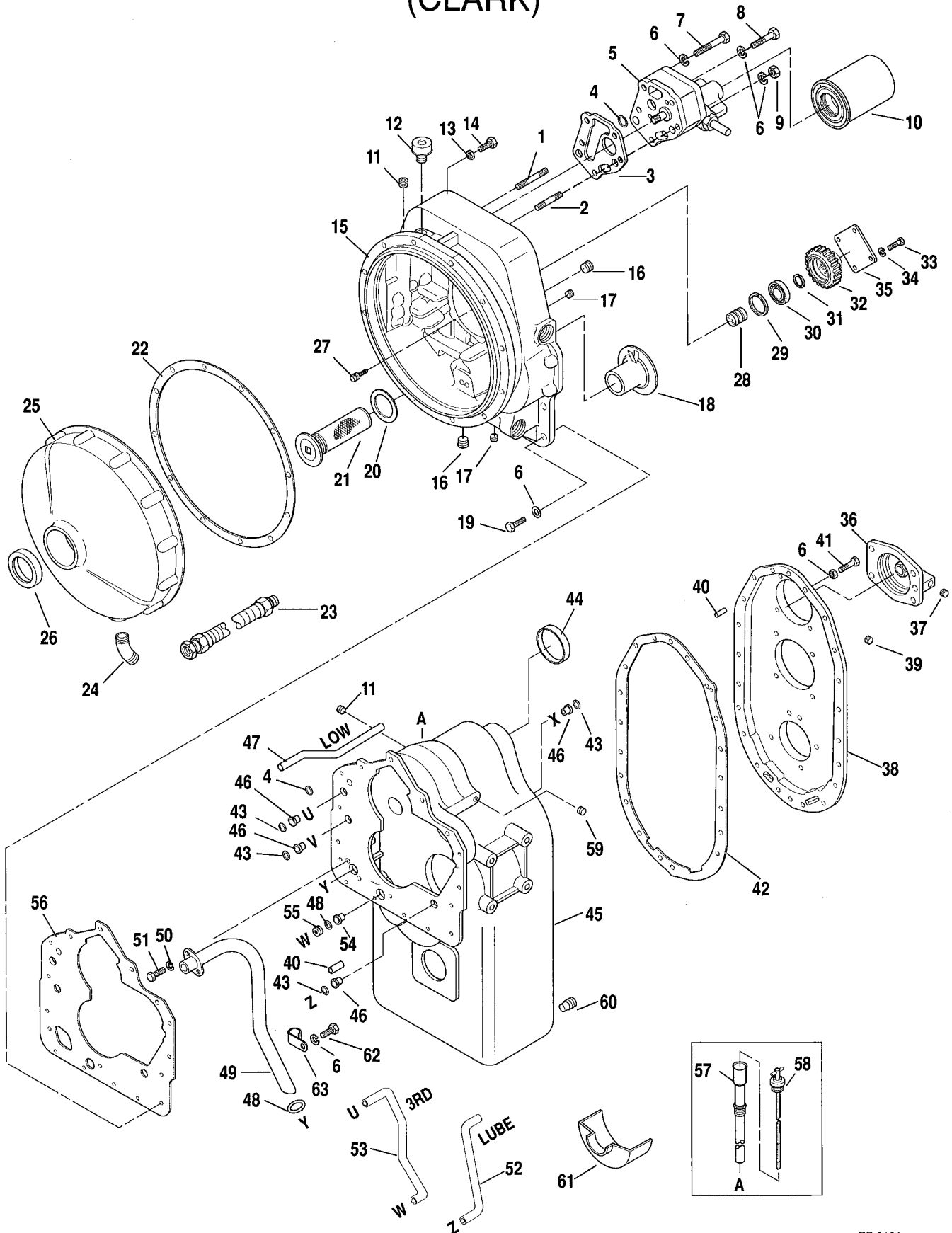


PB 0171

CONTROL VALVE ASSEMBLY (FUNK)

Item No.	Part Number	Qty.	Description
1	CF4005006	1	Valve Body
2	CF4104020	1	Gasket, Valve Body
3	CF4004248	1	Plug, Brake Cutoff
4	CFF37060916	2	O-Ring
5	CF40A4291	1	Piston
6	CF4004237	2	O-Ring
7	CFF56870	1	Needle, Roller
8	CF4004236	1	Valve, Press. Regulator
9	CFF1002036	7	Screw, Cap
10	CFF17030516	10	Washer, Flat
11	CF4001079	2	Spring, Detent
12	CFF7400012D	2	Ball
13	CF4004699	1	Fork, Stop
14	CF4004737	1	Stem Assembly
15	CF4001091	1	Plug
16	CFF65227	2	Seal, Oil
17	CF4004698	1	Stem
18	CFF3900093	1	Ring, Snap
19	CF40A4229	1	Seat
20	CF40A4259	1	Poppet Assembly (Includes items 21 & 22)
21	CF40A4258	1	Poppet
22	CFF3901037	1	Ring, Snap
23	CF4001617	1	Guide, Spring
24	CF4004240	1	Spring, Return Feathering
25	CF4001284	1	O-Ring
26	CF4001618	1	Plug, Spring Return
27	CFF1002044	3	Screw, Cap
28	CFF190012	4	Plug, Pipe
29	CFF91001	1	Switch, Neutral Start
30	CF4004247C	1	Plug, Orifice
31	CFF190032	1	Plug, Pipe
32	CF4004993	3	Spacer, Spring
33	CF40A4252	1	Spring, Main Reg.
34	CF4004243	1	Spring, Accumulator
35	CF40A4046	1	Piston, Accumulator
36	CFF37060916	1	O-Ring
37	CF4001080	1	Plug, Dump Valve

CONVERTER AND TRANSMISSION HOUSINGS (CLARK)

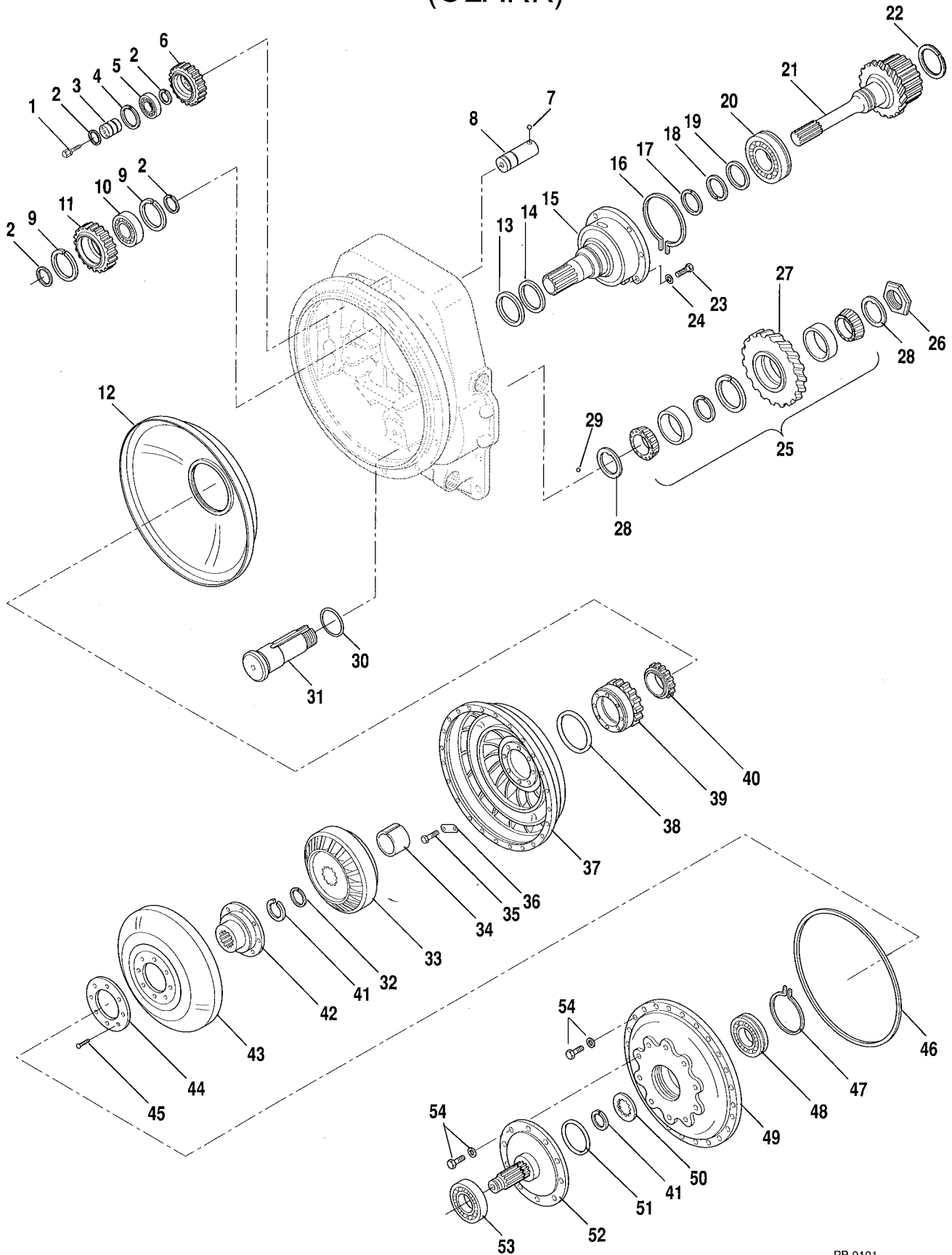


PB 0181

CONVERTER AND TRANSMISSION HOUSINGS (CLARK)

Item No.	Part Number	Qty.	Description
1	8032510	1	Stud, Pump Mounting
2	8032511	1	Stud, Pump Mounting
3	8032500	1	Gasket, Pump to Converter Housing
4	8032501	2	O-Ring
5	8032502	1	Charging Pump Assembly
6	8032503	42	Lockwasher
7	8032504	1	Screw
8	8032505	2	Screw
9	8032506	2	Nut, Stud
10	8320254	1	Filter Assembly
11	8032508	2	Plug, Pipe
12	8032509	1	Breather, Air
13	8032561	11	Lockwasher
14	8032547	11	Screw
15	8032548	1	Housing, Converter
16	8032515	2	Plug, Pipe
17	8032516	2	Plug, Pipe
18	8032517	1	Sleeve, Converter Housing
19	8032520	16	Screw
20	8032519	1	Gasket, Screen
21	8032518	1	Screen Assembly
22	8032549	1	Gasket, Front Cover
23	8033188	1	Drain Hose Assembly
24	8033189	1	Adaptor, Hose
25	8033193	1	Cover, Converter Housing Front
26	8033198	1	Seal, Front Cover Oil
27	8032541	2	Screw and Lockwasher
28	8032542	1	Support, Bearing
29	8032543	1	Ring, Retaining
30	8033199	1	Bearing, Pump Drive Gear
31	8032545	1	Ring, Locating
32	8032546	1	Gear, Drive
33	8033296	2	Capscrew
34	8033297	2	Lockwasher
35	8033298	1	Cover, Pump Mounting
36	8033299	1	Rear Brg. Cap Assembly, Low Shaft (Includes item 37)
37	8032526	1	Plug
38	8033300	1	Rear Cover and Plug Assembly (Includes item 39)
39	8032516	1	Plug, Pipe
40	8032521	3	Pin, Dowel
41	8033301	20	Screw
42	8033302	1	Gasket, Rear Cover to Case
43	8032523	4	O-Ring
44	8033303	1	Plug, Bore
45	8033314	1	Transmission Case Assembly (Includes items 46 thru 55)
46	8032522	4	Sleeve, Tube
47	8032538	1	Tube, Pressure
48	8032532	2	O-Ring
49	8033304	1	Suction Tube Assembly
50	8032535	2	Lockwasher
51	8032536	2	Screw
52	8033305	1	Lube Tube, Clutch
53	8033306	1	Tube, Third Speed
54	8033307	1	Sleeve, Tube
55	8033308	1	Plug, Pressure
56	8032537	1	Gasket, Housing to Case
57	8033309	1	Tube Assembly, Dipstick
58	8033310	1	Dipstick
59	8032539	1	Plug, Pipe
60	8032528	2	Plug, Drain
61	8033311	1	Baffle, Oil
62	8033312	1	Screw
63	8033313	1	Clip, Suction Tube

CONVERTER GROUP (CLARK)

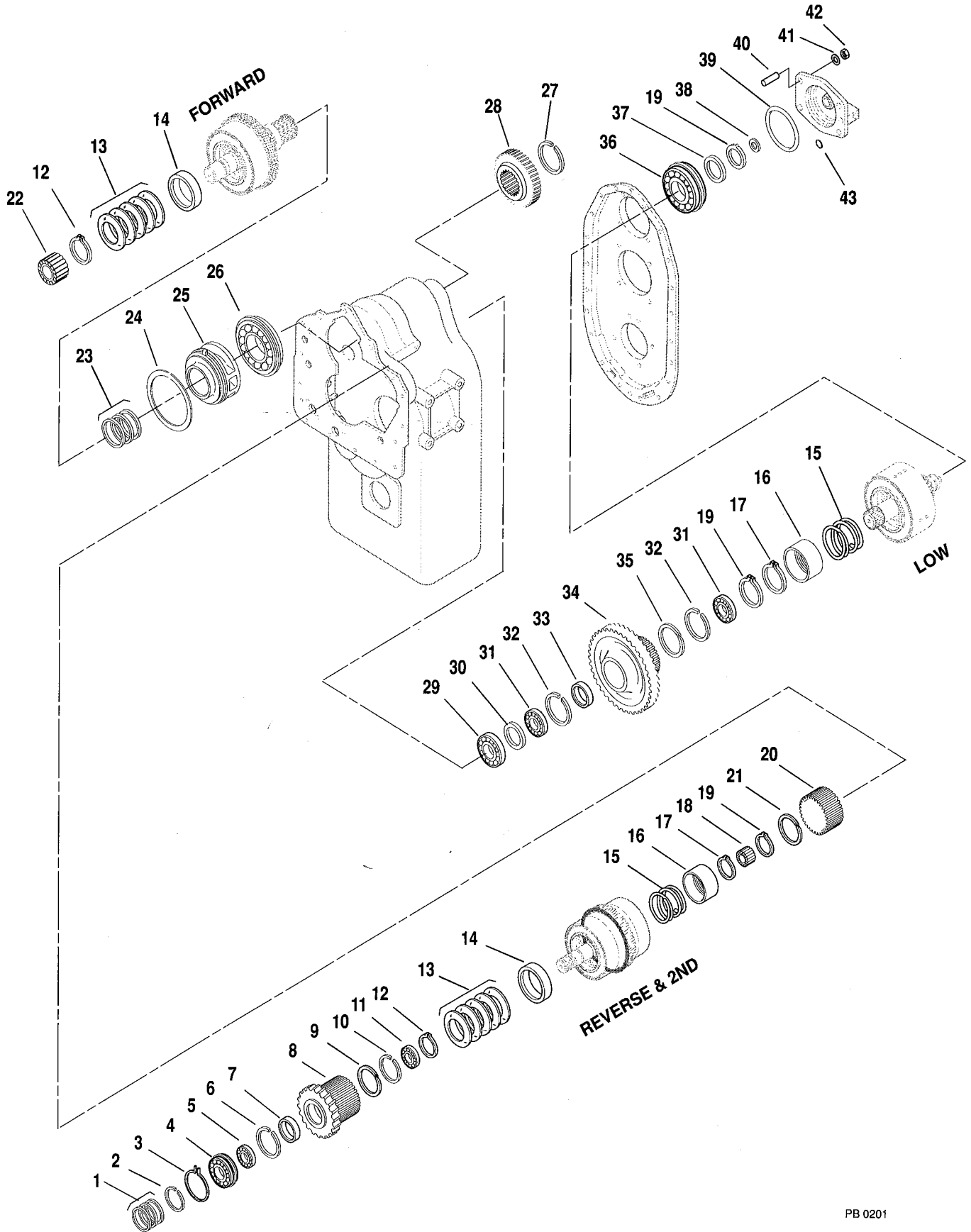


PB 0191

CONVERTER GROUP (CLARK)

Item No.	Part Number	Qty.	Description
1	8032541	2	Screw & Lockwasher, Bearing Support
2	8032545	4	Ring, Locating
3	8032542	1	Support, Bearing
4	8032550	1	Ring, Retaining
5	8032551	1	Bearing, Gear
6	8032552	1	Gear, Pump Drive
7	8032554	1	Lockball, Stub Shaft
8	8032555	1	Shaft, Stub
9	8042543	2	Ring, Retaining
10	8033199	1	Bearing Shaft
11	8032553	1	Gear , Idler
12	8032556	1	Oil Baffle Assembly
13	8032558	1	Ring, Piston
14	8032559	1	Spring, Expander
15	8032560	1	Support, Stator
16	8032563	1	Ring, Snap
17	8032564	1	Ring, Piston
18	8032565	1	Ring, Retaining
19	8032566	1	Washer, Locating
20	8032567	1	Bearing, Shaft
21	8032568	1	Turbine Shaft & Ret. Ring (Includes Item #22)
22	8032620	1	Ring, Retaining
23	8032562	6	Screw, Stator Support
24	8032561	6	Lockwasher, Stator Support
25	8032574	1	Rev. Idler Gear Bearing Assembly
26	8033195	1	Nut, Ret. Plate
27	8032573	1	Gear, Idler
28	8033194	2	Plate, Thrust
29	8033192	1	Lockball, Idler Shaft
30	8033191	1	O-Ring, Idler Shaft
31	8033190	1	Shaft, Reverse Idler
32	8032578	1	Ring, Retaining
33	8032579	1	Member, Reaction
34	8032580	1	Spacer, Impeller to Hub Bearing
35	8032581	8	Screw, Impeller to Hub
36	8032582	4	Locktab, Impeller to Hub Bearing
37	8032583	1	Impeller
38	8032584	1	O-Ring, Impeller Hub
39	8032585	1	Gear, Impeller Hub
40	8032586	1	Bearing, Gear
41	8032587	2	Ring, Retaining
42	8032588	1	Hub, Turbine
43	8032589	1	Turbine
44	8033196	1	Ring, Screw
45	8033197	12	Screw, Turbine to Hub
46	8032595	1	O-Ring, Impeller to Cover
47	8032592	1	Ring, Locating
48	8032593	1	Bearing, Hub
49	8033384	1	Cover, Impeller
50	8032594	1	Washer, Retaining
51	8033385	1	O-Ring, Input Shaft
52	8033386	1	Shaft, Input
53	8033373	1	Bearing, Input Shaft
54	8032597	34	Screw & Washer Assembly

TRANSMISSION GEAR GROUPS — FORWARD, REVERSE, LOW & 2ND (CLARK)

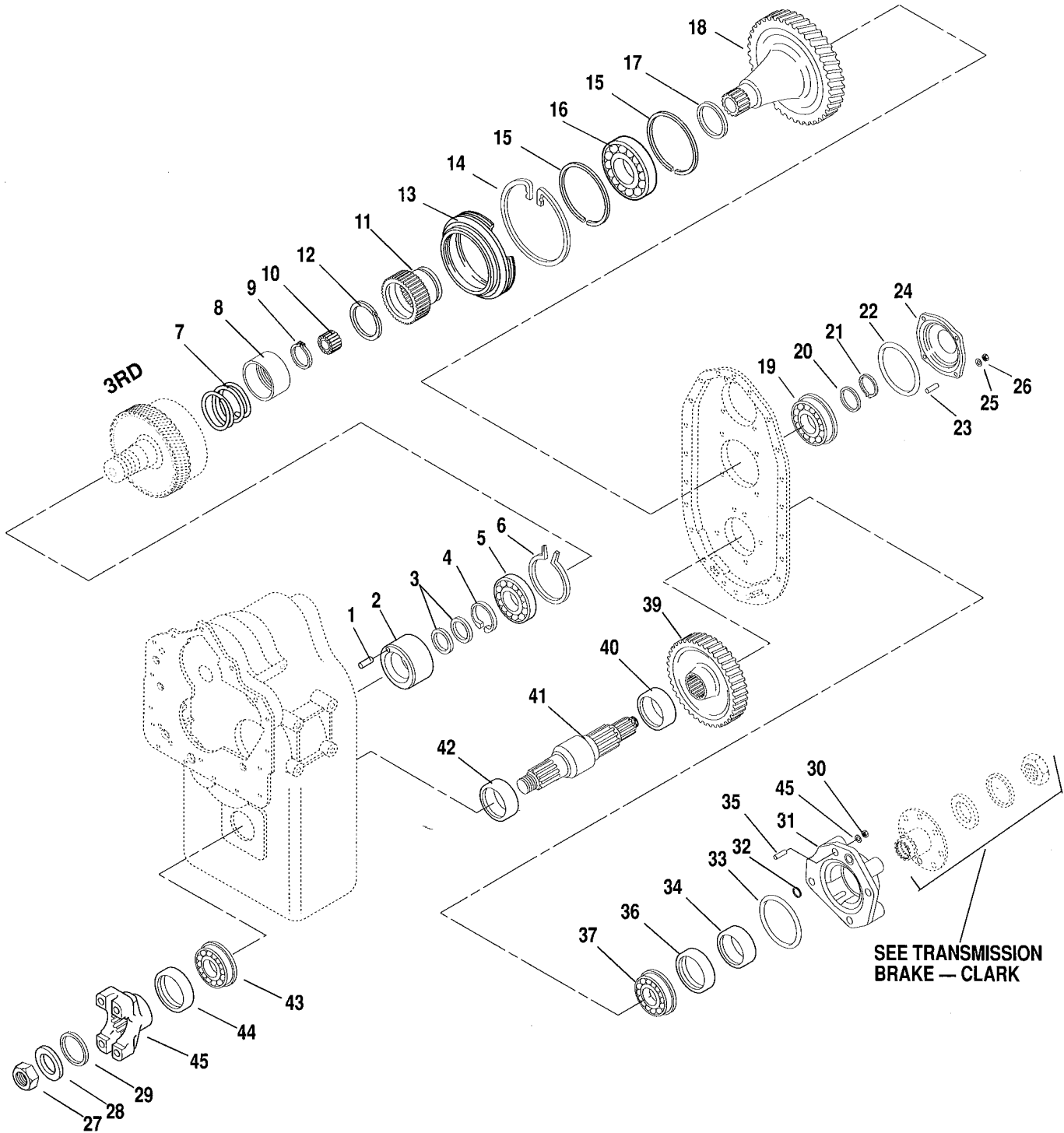


PB 0201

TRANSMISSION GEAR GROUPS—FORWARD, REVERSE, LOW & 2ND (CLARK)

Item No.	Part Number	Qty.	Description
1	8032652	3	Ring, Piston
2	8032651	1	Ring, Retaining
3	8032650	1	Ring, Snap
4	8032649	1	Bearing, Front
5	8032648	1	Bearing, Gear
6	8032645	1	Ring, Retaining
7	8032647	1	Spacer, Bearing
8	8032646	1	Rev. Clutch Gear & Ret. Ring Assembly (Includes Item 9)
9	8032620	1	Ring, Retaining
10	8032645	1	Ring, Retaining
11	8032644	1	Bearing, Gear
12	8032640	2	Ring, Snap
13	8032639	10	Spring, Return
14	8032638	2	Spacer, Spring
15	8032615	2	Spring, Return
16	8032616	2	Retainer, Spring
17	8032617	2	Ring, Snap
18	8032643	1	Bearing, Rear
19	8032623	3	Ring, Snap
20	8032642	1	2nd Clutch Gear & Ret. Ring Assembly (Includes Item 21)
21	8032620	1	Ring, Retaining
22	8032641	1	Bearing, Pilot
23	8032637	3	Ring, Piston
24	8033355	1	Ring, Retaining
25	8032635	1	Sleeve, Ring
26	8032634	1	Bearing, Rear
27	8033356	1	Ring, Retaining
28	8033357	1	Gear, Forward Shaft
29	8032633	1	Bearing, Front
30	8032632	1	Spacer, Bearing
31	8032628	2	Bearing, Gear
32	8032629	2	Ring, Locating
33	8032631	1	Spacer, Gear
34	8033358	1	Low Shaft Gear, Hub & Ret. Ring Assembly (Includes Item 35)
35	8032620	1	Ring, Retaining
36	8032622	1	Bearing, Rear
37	8032566	1	Washer, Support
38	8032614	1	Ring, Piston
39	8032624	1	O-Ring, Cap
40	8032626	4	Stud, Cap
41	8032503	4	Lockwasher, Stud
42	8032506	4	Nut, Stud
43	8032625	1	O-Ring, Cap

TRANSMISSION GEAR GROUPS — OUTPUT, IDLER & THIRD (CLARK)

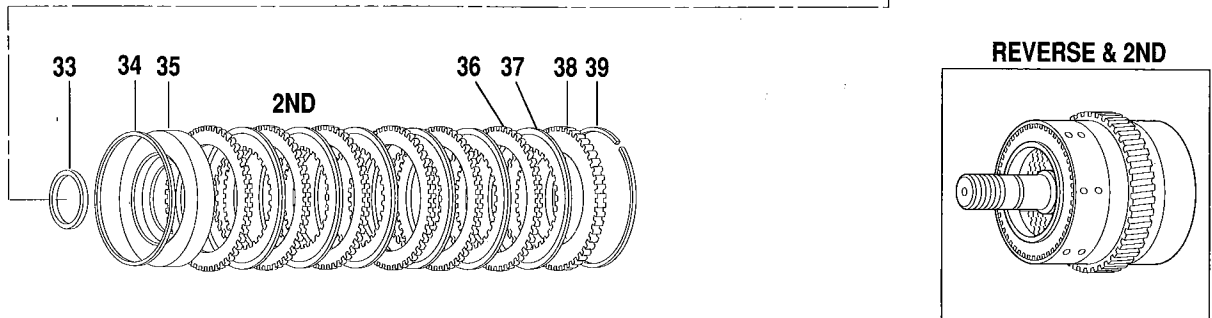
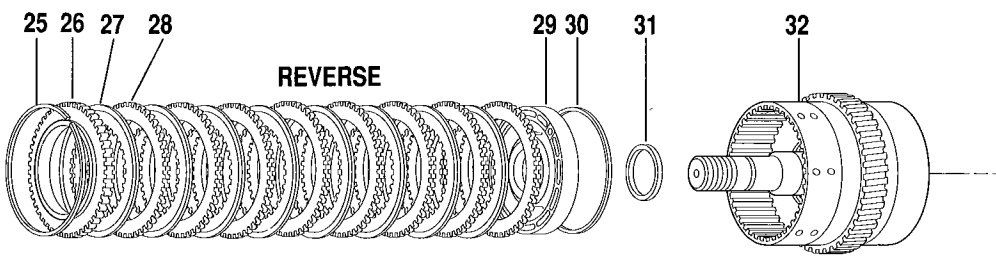
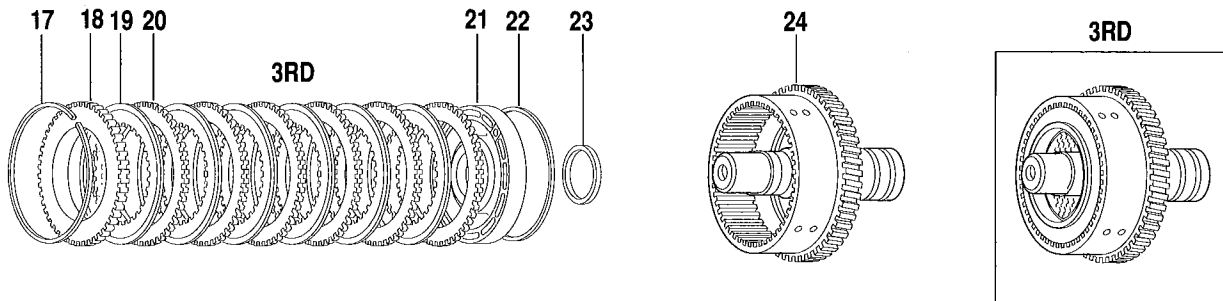
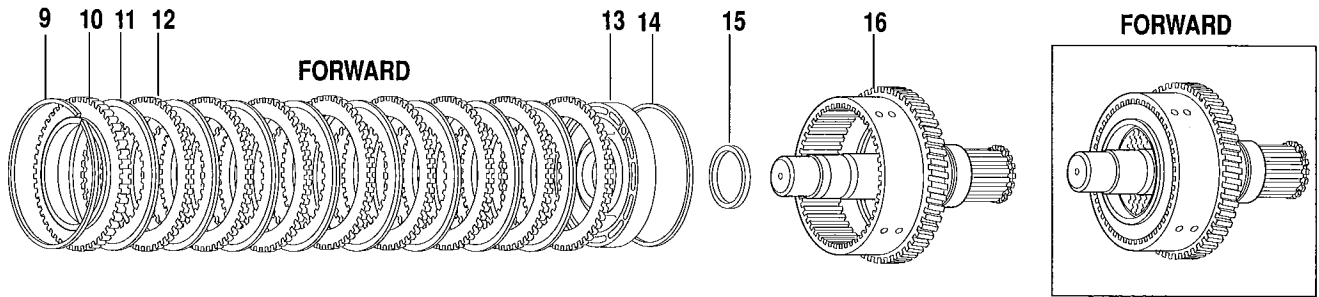
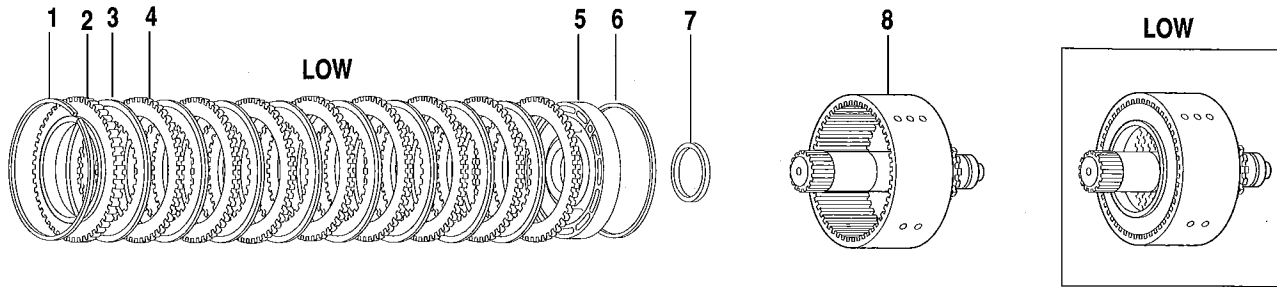


PB 0211

TRANSMISSION GEAR GROUPS — OUTPUT, IDLER & THIRD (CLARK)

Item No.	Part Number	Qty.	Description
1	8033353	1	Pin, Roll
2	8033352	1	Race, Piston Ring Outer
3	8032652	2	Ring, Piston
4	8033350	1	Ring, Retaining
5	8032628	1	Bearing, Front
6	8033351	1	Ring, Locating
7	8032615	1	Spring, Return
8	8032616	1	Retainer, Spring
9	8032617	1	Ring, Snap
10	8032643	1	Bearing, Pilot
11	8033359	1	3rd Clutch Disc Hub & Ret. Ring Assembly (Includes Item #12)
12	8032620	1	Ring, Retaining
13	8033360	1	Carrier, Bearing
14	8033361	1	Ring, Locating
15	8033362	2	Ring, Locating
16	8033363	1	Bearing, Hub
17	8033364	1	Ring, Retaining
18	8033370	1	Idler Gear & Shaft Assembly
19	8033365	1	Bearing, Rear
20	8033366	1	Washer, Support
21	8033367	1	Ring, Retainer
22	8033368	1	O-Ring, Cap
23	8032626	4	Stud, Cap
24	8033369	1	Cap, Bearing
25	8032503	4	Lockwasher, Bearing Cap
26	8032506	4	Nut, Bearing Cap
27	8033372	1	Nut, Flange
28	8033371	1	Washer, Flange
29	8032611	1	O-Ring, Flange
30	8032609	4	Nut, Stud
31	8033378	1	Cap, Rear Bearing
32	8033379	1	O-Ring, Cap
33	8033380	1	O-Ring, Cap
34	8033381	1	Spacer, Bearing to Flange
35	8032627	4	Stud, Cap
36	8032605	1	Seal, Oil
37	8032604	1	Bearing, Rear
38	8033375	1	Gear, Output Shaft (46T)
39	8033376	1	Spacer, Gear
40	8033377	1	Shaft, Output
41	8033374	1	Spacer, Gear
42	8033373	1	Bearing, Front
43	8033198	1	Seal, Oil
44	8033383	1	Flange, Front Output
45	8032608	4	Lockwasher

TRANSMISSION CLUTCH GROUPS (CLARK)

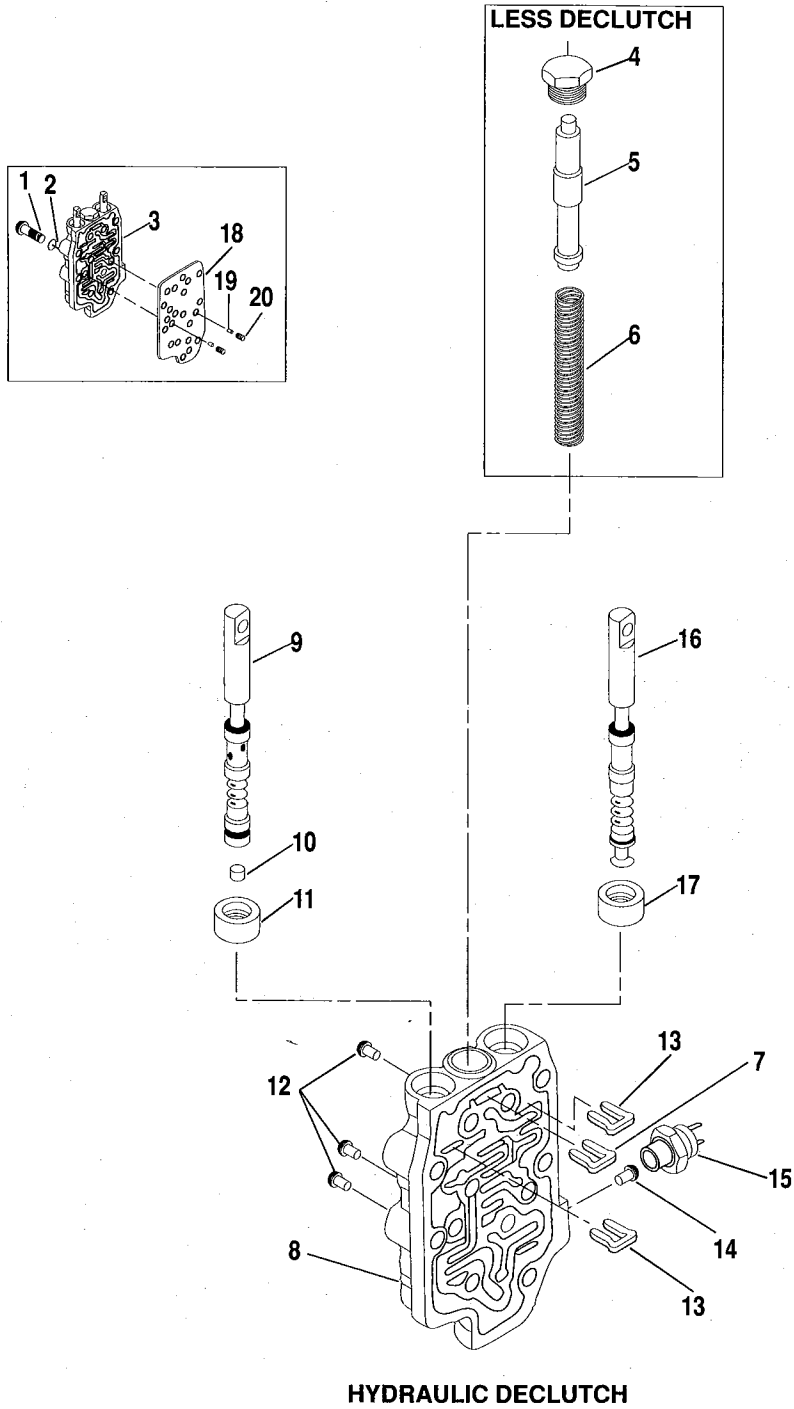


PB 0221

TRANSMISSION CLUTCH GROUPS (CLARK)

Item No.	Part Number	Qty.	Description
1	8032653	1	Ring, Snap
2	8032654	1	Backing Plate
3	8032655	8	Disc, Clutch Inner
4	8032656	8	Disc, Clutch Outer
5	8032657	1	Piston, Clutch
6	8032658	1	Ring, Outer Piston
7	8032659	1	Seal, Inner Piston
8	8033387	1	Low Clutch, Shaft, Drum & Bleed Valve Assembly
9	8032653	1	Ring, Snap
10	8032654	1	Backing Plate
11	8032661	8	Disc, Clutch Inner
12	8032656	8	Disc, Clutch Outer
13	8033346	1	Piston, Clutch
14	8032658	1	Ring, Clutch Piston - Outer
15	8032659	1	Ring, Clutch Piston - Inner
16	8033347	1	Forward Shaft, Drum & Plug Assembly
17	8032653	1	Ring, Snap
18	8032654	1	Backing Plate
19	8032661	6	Disc, Clutch Inner
20	8032656	6	Disc, Clutch Outer
21	8032663	1	Clutch Piston Assembly
22	8032658	1	Seal, Outer Clutch Piston
23	8032659	1	Seal, Inner Clutch Piston
24	8033344	1	3rd Clutch Shaft, Drum & Plug Assembly
25	8032653	1	Ring, Snap
26	8032654	1	Backing Plate
27	8032661	8	Disc, Clutch Inner
28	8032656	8	Disc, Clutch Outer
29	8033346	1	Piston, Clutch
30	8032658	1	Seal, Outer Clutch Piston
31	8032659	1	Seal, Inner Clutch Piston
32	8032665	1	Rev. & 2nd Shaft, Drum & Plug Assembly
33	8032659	1	Seal, Inner Clutch Piston
34	8032658	1	Seal, Outer Piston Clutch
35	8032663	1	Piston, Clutch
36	8032656	6	Disc, Clutch Outer
37	8032661	6	Disc, Clutch Inner
38	8033345	1	Backing Plate
39	8032653	1	Ring, Snap

CONTROL VALVE ASSEMBLY (CLARK)

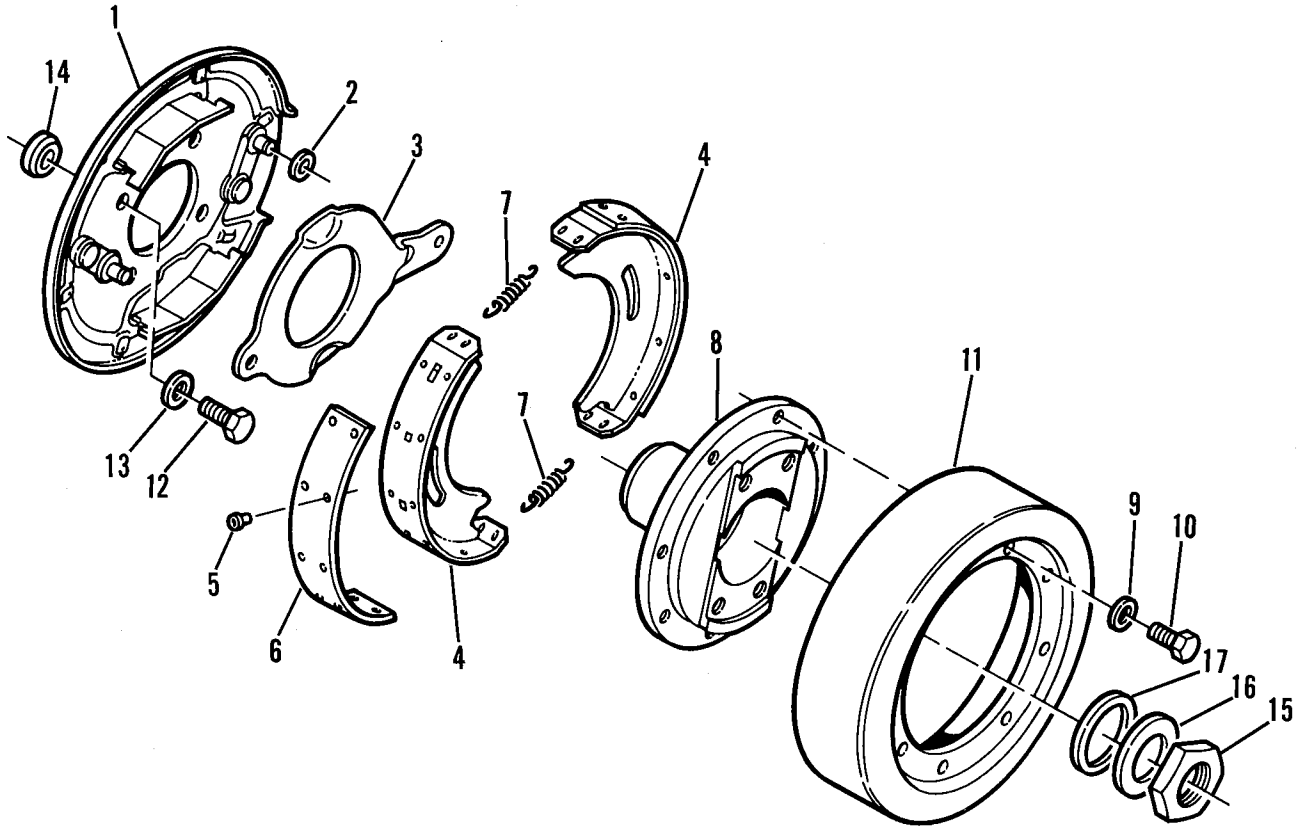


PB 0231

CONTROL VALVE ASSEMBLY (CLARK)

Item No.	Part Number	Qty.	Description
1	8032666	9	Screw, Valve To Converter Hsg.
2	8032561	9	Lockwasher, Valve To Converter Hsg. Screw
3	8032667	1	Control Valve Assembly (Includes Items 4 thru 8)
4	8032671	1	Plug
5	8032672	1	Spool, Valve
6	8032673	1	Spring, Control Valve
7	8032676	1	Spool Stop, Valve
8	8032679	1	Control Valve Hsg. Assembly (Includes Items 9 thru 17)
9	8032682	1	Speed Selector Spool & Plug Assembly (Includes Item 10)
10	8032681	1	Plug
11	8032675	1	Seal, Oil
12	8032680	3	Plug, Pipe
13	8032676	2	Spool Stop, Valve
14	8032678	1	Pin, Switch Actuating
15	8032677	1	Switch, Neutral
16	8032674	1	Spool, Forward & Reverse Valve
17	8032675	1	Seal, Oil
18	8032668	1	Gasket, Control Valve
19	8032669	2	Ball, Detent
20	8032670	2	Spring, Detent

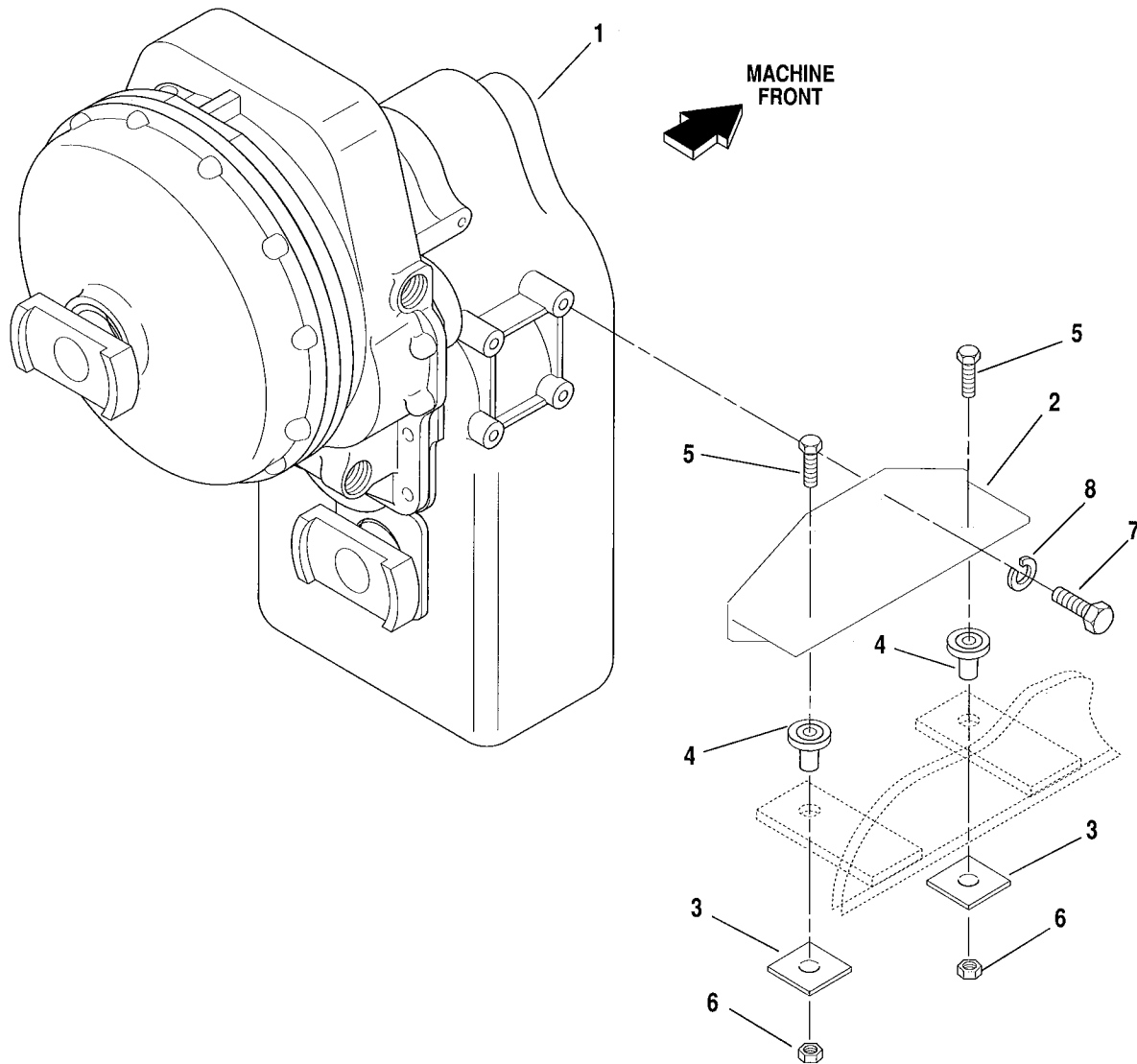
TRANSMISSION BRAKE — CLARK



PB 0241

Item No.	Part Number	Qty.	Description
	8033206	1	Brake Assembly (Includes Items 1 thru 7)
1	8033207	1	Plate, Backing
2	8033208	1	Roller
3	8033209	1	Lever, Actuating
4	8033210	1	Brake Shoe and Lining Assembly (Includes Items 5 & 6)
5	See Kits	40	Rivet, Lining
6	See Kits	2	Lining
7	8033211	2	Spring, Return
8	8033382	1	Flange, Brake
9	8032561	6	Lockwasher, Drum to Flange
10	8033212	6	Screw
11	8033213	1	Drum, Brake
12	8033214	4	Screw, Backing Plate
13	8033217	4	Lockwasher, Backing Plate
14	8033224	4	Spacer
15	8033372	1	Nut, Flange
16	8033371	1	Washer, Flange
17	8032611	1	O-Ring, Flange
			KITS
	8033227	1	Kit, Brake Lining & Rivet (Includes the following)
		20	Rivet, Lining
		1	Lining

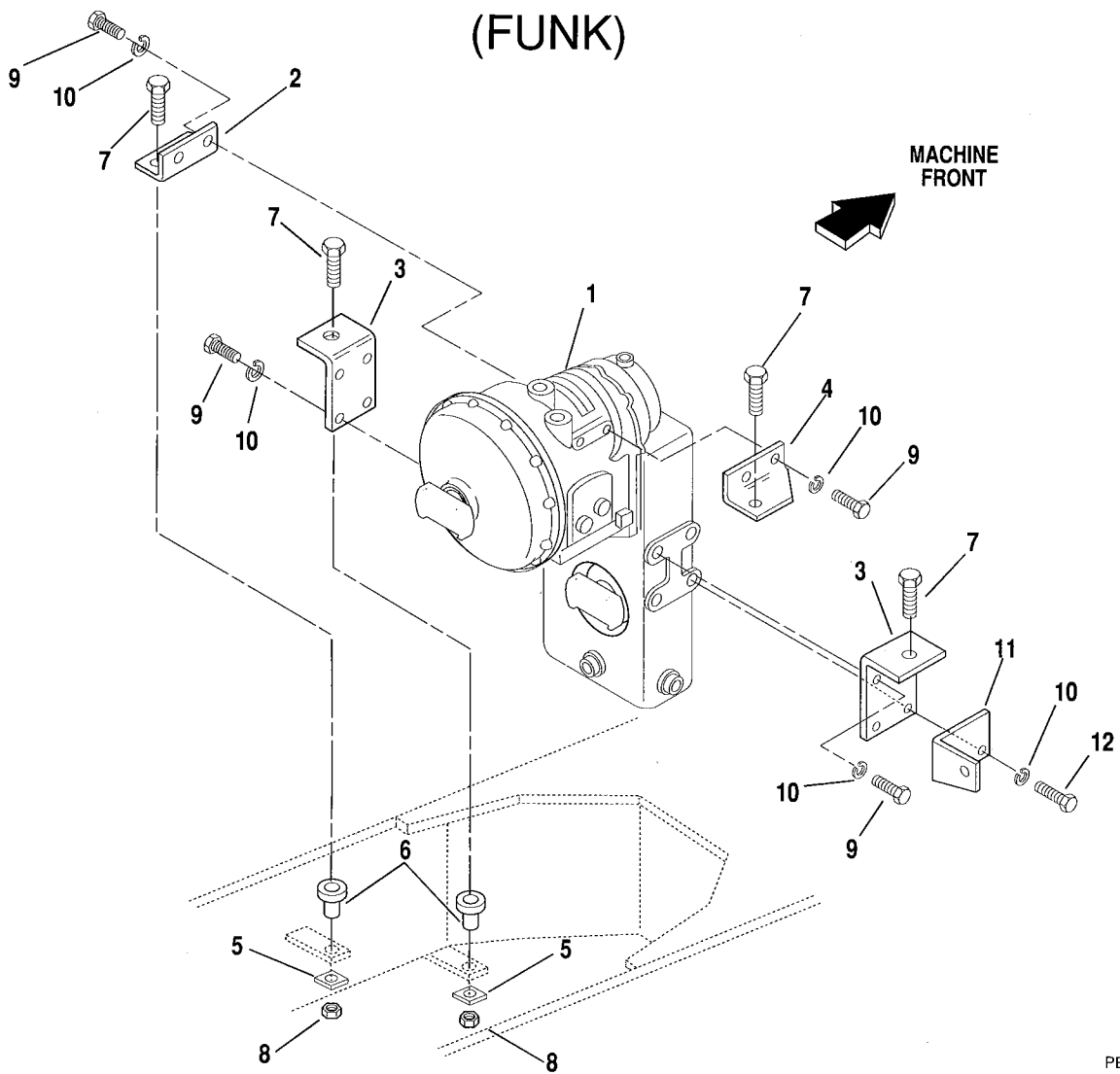
TRANSMISSION MOUNTING — CLARK



PB 0251

Item No.	Part Number	Qty.	Description
1	8841013	1	Transmission
2	7077842	2	Bracket, Trans. Mounting
3	7054351	4	Washer, Rebound
4	8278007	4	Mount, Rubber
5	8303639	4	Screw, Hex Hd. Cap, 3/4 - 10 x 3" GR.5
6	8305619	4	Locknut, Hex 3/4 - 10
7	8303527	8	Screw, Hex Hd. Cap, 3/4 - 10 x 1 1/4 GR.5
8	8307010	8	Lockwasher, 3/4
			<u>KITS</u>
	8033223	1	Long Drop Transmission Gasket & Sealing Kit
	8032959	1	Converter Section Gasket & Sealing Kit

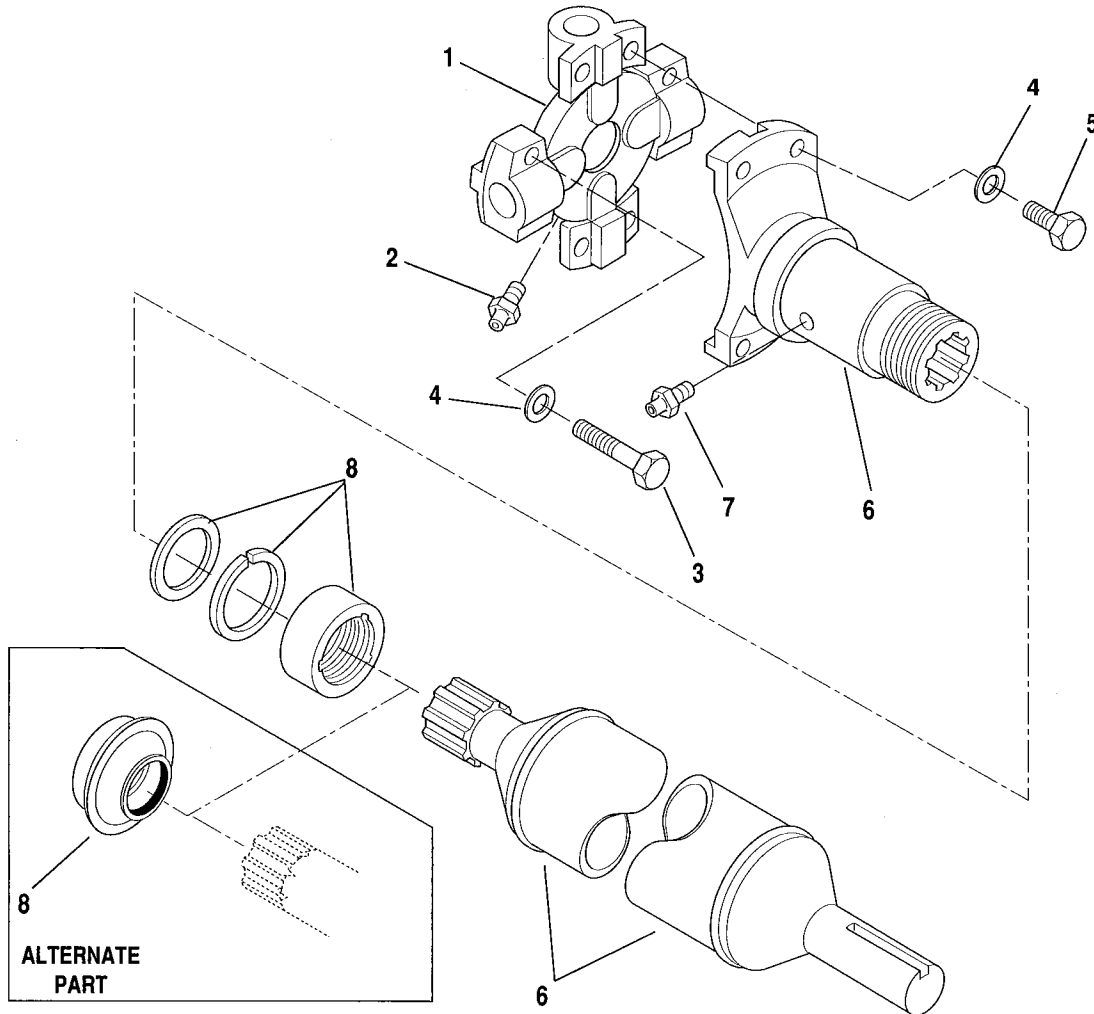
TRANSMISSION MOUNTING (FUNK)



PB 0261

Item No.	Part Number	Qty.	Description
1	8841017	1	Transmission
2	7068502	1	Bracket, Trans. Left Rear
3	7068422	2	Bracket, Trans. (Right & Left Front)
4	7077692	1	Bracket, Trans. (Right Rear)
5	7054351	4	Washer, Rebound
6	8278007	4	Mount, Rubber
7	8303639	4	Screw, Hex Hd Cap, 3/4 - 10 x 3 Gr 5
8	8305619	4	Nut, Lock 3/4 - 10
9	8303699	10	Screw, Hex Hd Cap, 5/8 - 11 x 1-1/4 Gr 5
10	8307009	12	Washer, Lock 5/8
11	7092921	1	Bracket Kit, Filter Mount (S/N 9A0550 thru S/N 0B0682)
	7092882	1	Bracket, Filter Mount (S/N 0B0683 and After)
12	8303712	2	Screw, Hex Hd Cap, 5/8-11 x 1-1/2 Gr 5

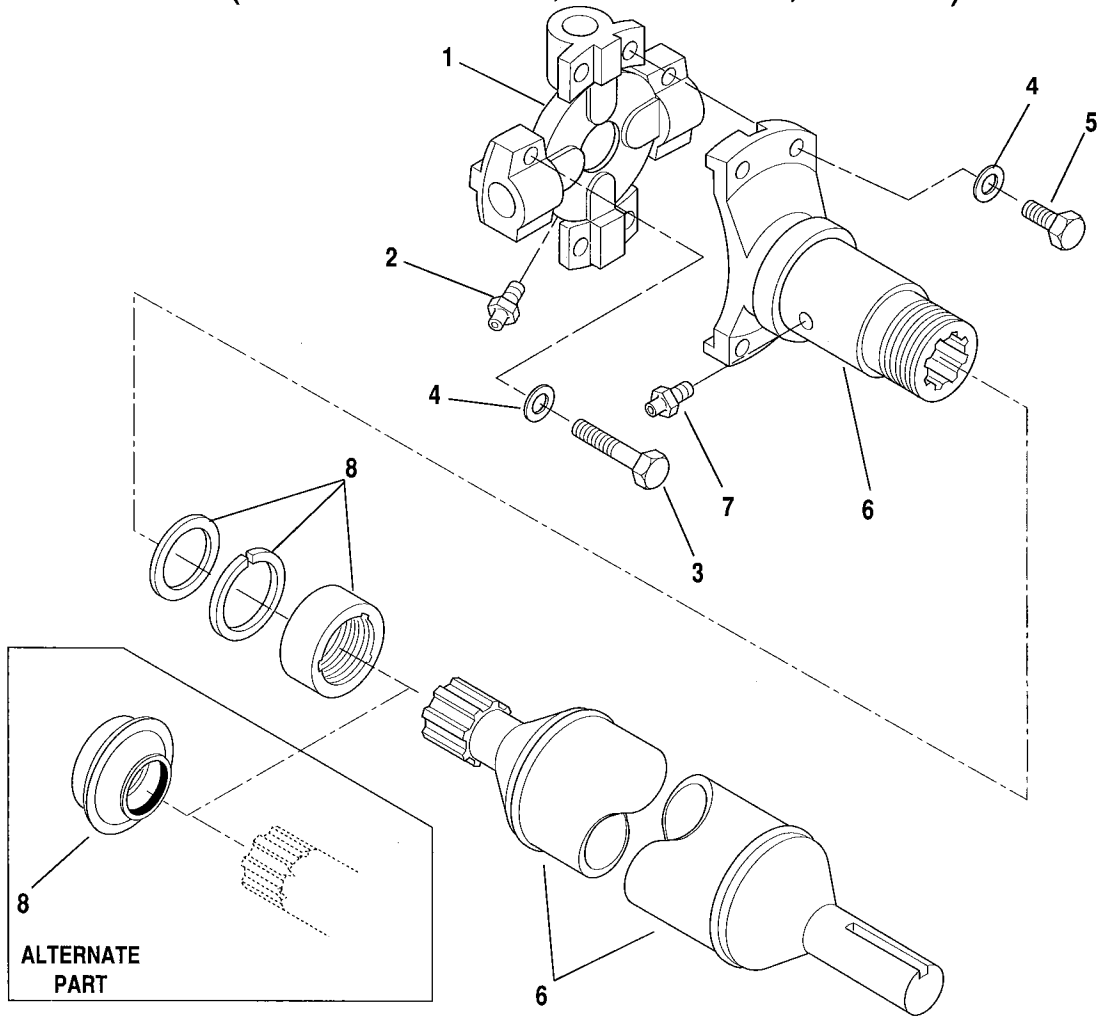
DRIVE SHAFT — ENGINE TO TRANSMISSION (DEUTZ ONLY)



PB 0271

Item No.	Part Number	Qty.	Description
	7084092		Drive Shaft Complete - Engine to Transmission (Includes Items 1 thru 8)
1	8880009	1	Spider & Bearing Assembly (Includes Items 2 thru 5)
2	8520001	1	Fitting, Grease 1/8 NPT
3	8303116	4	Screw, Hex Hd. 3/8 -24 x 2 GR 8
4	8307005	8	Lockwasher 3/8
5	8303115	4	Screw, Hex Hd. Cap, 3/8 - 24 x 1 GR 8
6	NSS*		Slip Yoke & Tube Assembly (Includes Items 7 & 8)
7	8520001	1	Fitting, Grease 1/8 NPT
8	8882005	1	Kit, Dust Cap
			* Item 6 is serviced as a balanced assembly only. Order drive shaft complete.

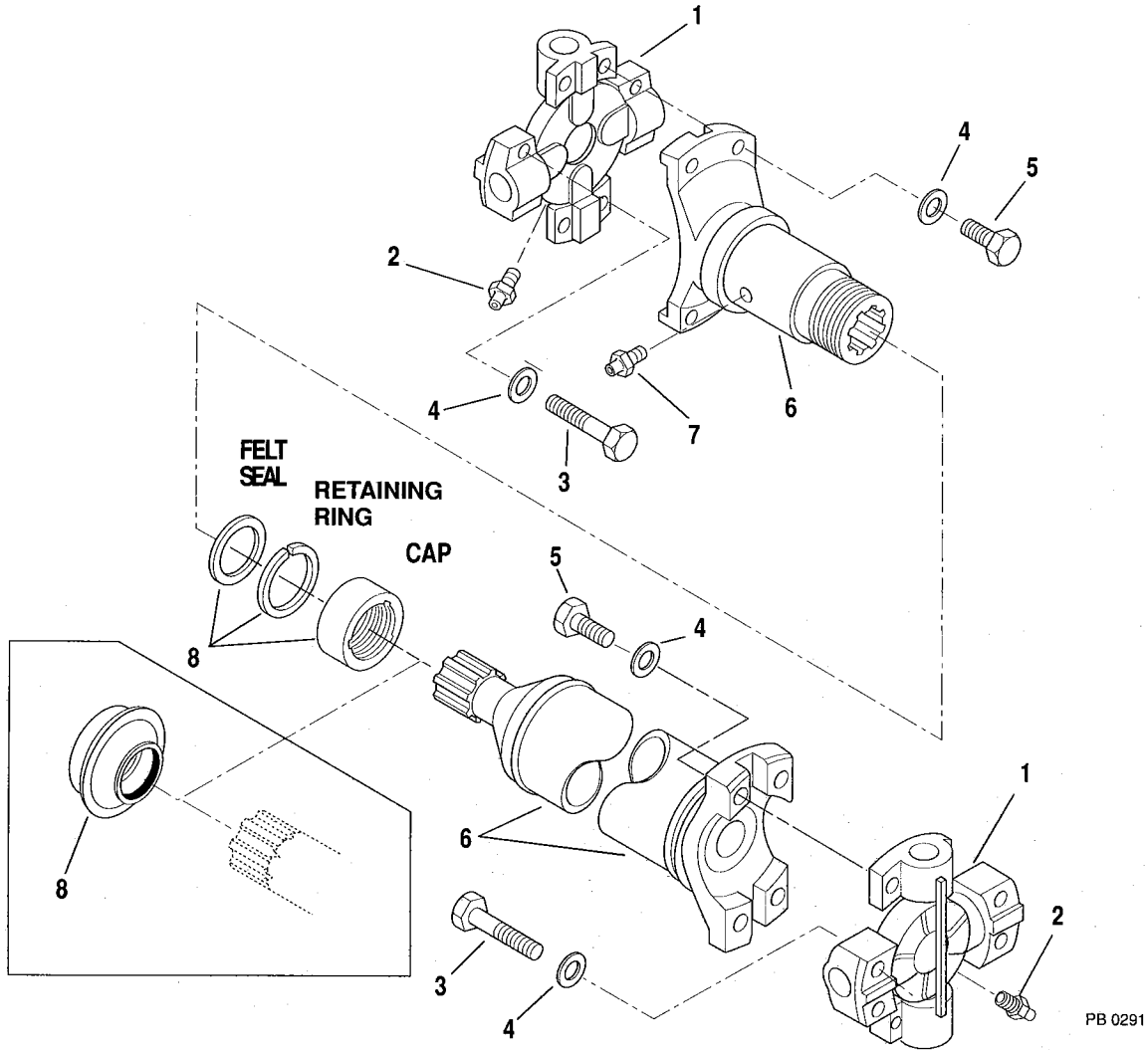
DRIVE SHAFT — ENGINE TO TRANSMISSION (JOHN DEERE, PERKINS, FORD)



PB 0271

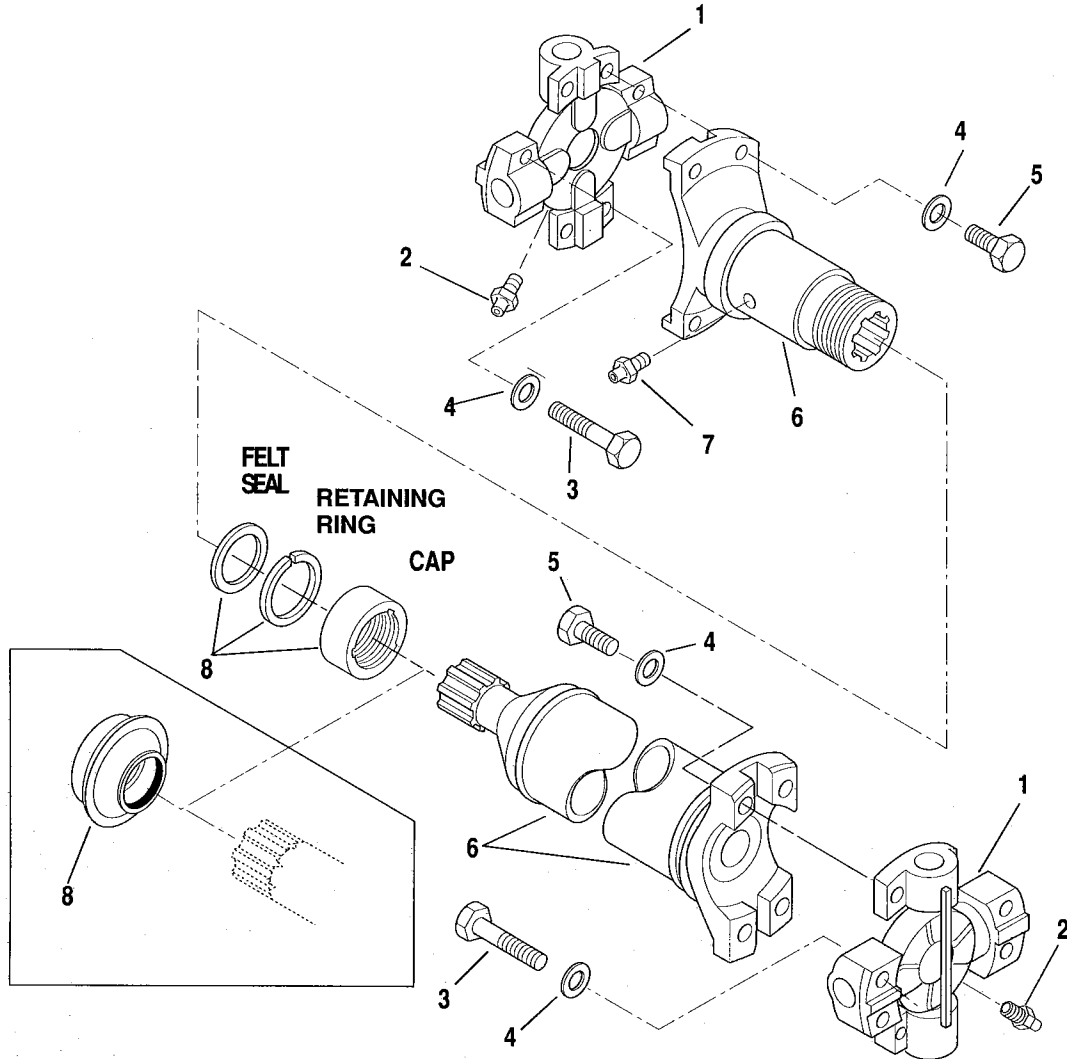
Item No.	Part Number	Qty.	Description
	7068832	1	Drive Shaft Complete - Engine to Transmission (Includes items 1 thru 8)
1	8880009	1	Spider & Bearing Assembly (Includes Items 2 thru 5)
2	8520001	1	Fitting, Grease 1/8 NPT
3	8303116	4	Screw, Hex Hd., 3/8 - 24 x 2 GR. 8
4	8307005	8	Lockwasher 3/8
5	8303115	4	Screw, Hex Hd., 3/8 - 24 x 1 GR. 8
6	NSS*	1	Slip Yoke & Tube Assembly (Includes Items 7 & 8)
7	8520001	1	Fitting, Grease 1/8 NPT
8	8882005	1	Kit, Dust Cap
			* Item 6 is serviced as a balanced assembly. Order drive shaft complete.

DRIVE SHAFT — FRONT & REAR (CLARK)



Item No.	Part Number	Qty.	Description
	7068812	1	Front Drive Shaft Assembly - Complete (Includes items 1 thru 8)
	7068822	1	Rear Drive Shaft Assembly - Complete (Includes items 1 thru 8)
1	8880009	2	Spider & Bearing Assembly (Includes Items 2 thru 5)
2	8520001	1	Fitting, Grease 1/8 NPT
3	8303116	4	Screw, Hex Hd. 3/8 -24 x 2 GR 8
4	8307005	8	Lockwasher 3/8
5	8303115	4	Screw, Hex Hd. Cap, 3/8 - 24 x 1 GR 8
6	NSS*		Slip Yoke & Tube Assembly (Includes Items 7 & 8)
7	8520001	1	Fitting, Grease 1/8 NPT
8	8882005	1	Kit, Dust Cap
			* Item 6 is serviced as a balanced assembly only. Order drive shaft complete.

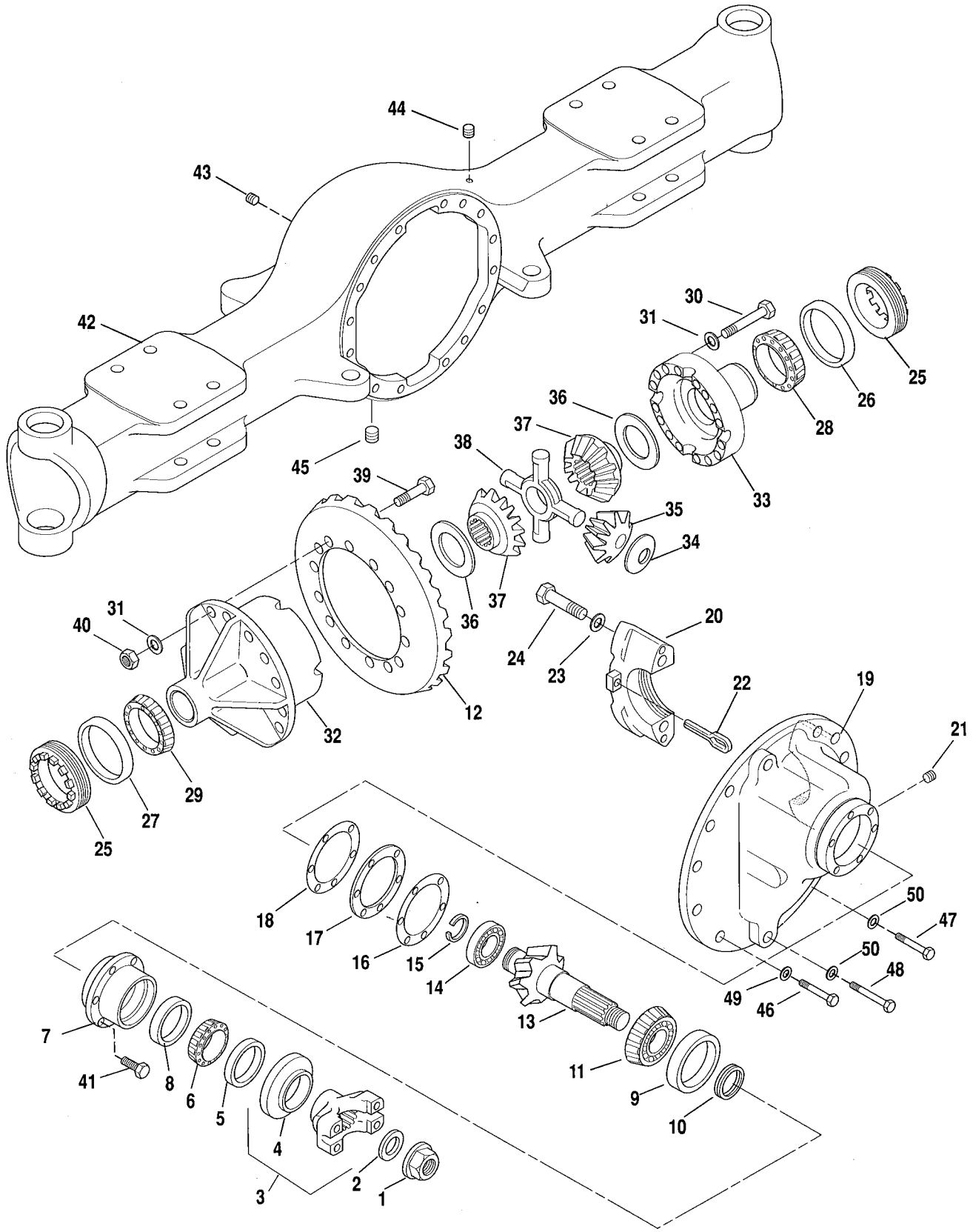
DRIVE SHAFT — FRONT & REAR (FUNK)



PB 0291

Item No.	Part Number	Qty.	Description
	7073802	1	Front Drive Shaft Assembly - Complete (Includes items 1 thru 8)
	7077152	1	Rear Drive Shaft Assembly - Complete (Includes items 1 thru 8)
1	8880009	2	Spider & Bearing Assembly (Includes Items 2 thru 5)
2	8520001	1	Fitting, Grease 1/8 NPT
3	8303116	4	Screw, Hex Hd. 3/8 -24 x 2 GR 8
4	8307005	8	Lockwasher 3/8
5	8303115	4	Screw, Hex Hd. Cap, 3/8 - 24 x 1 GR 8
6	NSS*		Slip Yoke & Tube Assembly (Includes Items 7 & 8)
7	8520001	1	Fitting, Grease 1/8 NPT
8	8882005	1	Kit, Dust Cap
			* Item 6 is serviced as a balanced assembly only. Order drive shaft complete.

DIFFERENTIAL CARRIER — FRONT AND REAR AXLE



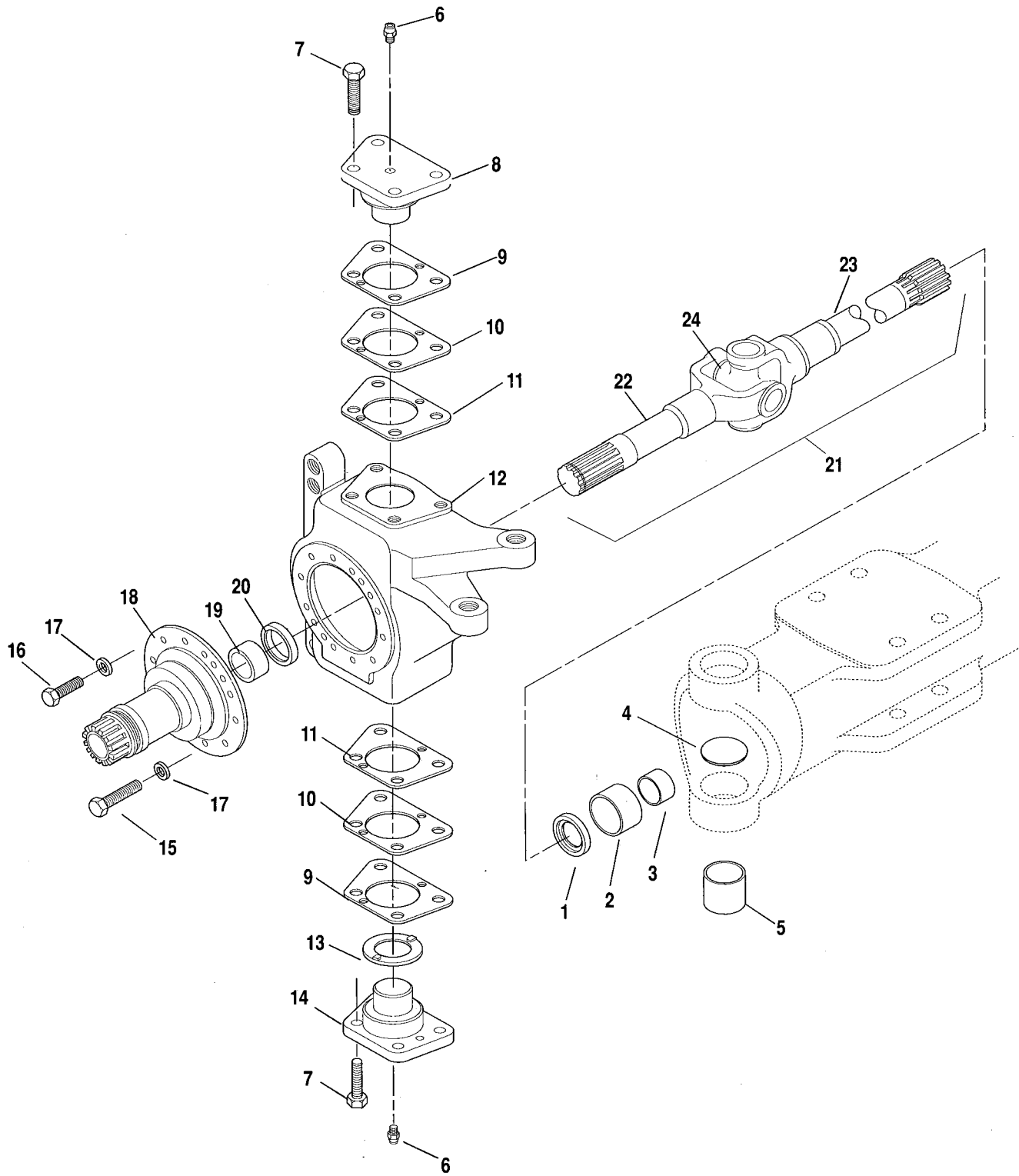
PB0311

DIFFERENTIAL CARRIER — FRONT AND REAR AXLE

Item No.	Part Number	Qty.	Description
1	8040634	1	Nut, Bevel Pinion
2	8040635	1	Washer, Bevel Pinion Nut
3	8040670	1	Yoke, Companion (Includes item 4)
4	8040669	1	Deflector, Yoke
5	8040637	1	Seal, Oil
6	8040638	1	Cone, Bearing Outer
7	8040640	1	Cage, Bevel Pinion Bearing (Includes items 8 & 9)
8	8040639	1	Cup, Bevel Bearing Outer
9	8040651	1	Cup, Bevel Bearing Inner
10	See Kits	AR	Spacer, Bevel Pinion Bearing .153
	See Kits	AR	Spacer, Bevel Pinion Bearing .154
	See Kits	AR	Spacer, Bevel Pinion Bearing .155
	See Kits	AR	Spacer, Bevel Pinion Bearing .156
	See Kits	AR	Spacer, Bevel Pinion Bearing .157
	See Kits	AR	Spacer, Bevel Pinion Bearing .158
	See Kits	AR	Spacer, Bevel Pinion Bearing .164
	See Kits	AR	Spacer, Bevel Pinion Bearing .170
	See Kits	AR	Spacer, Bevel Pinion Bearing .182
	See Kits	AR	Spacer, Bevel Pinion Bearing .176
11	8040652	1	Cone, Pinion Bearing Inner
12	8040675	1	Bevel Gear 5.83 -1 (Includes item 13)
13	NSS	1	Pinion, Bevel
14	8040737	1	Bearing, Bevel Pinion - Rear
15	8040679	1	Lockring, Pinion
16	8040654	3	Shim, Pinion Bearing Cage .005
17	8040655	4	Shim, Pinion Bearing Cage .010
18	8040656	1	Shim, Pinion Bearing Cage .003
19	8040657	1	Carrier, Differential (Includes item 20)
20	NSS	2	Cap, Differential Carrier
21	8040625	1	Plug Level
22	8040659	2	Pin, Cotter
23	8040663	4	Washer
24	8040662	4	Capscrew
25	8040664	2	Ring, Adjusting
26	8033315	1	Cup, Differential Case Bearing - Plain Half
27	8040665	1	Cup, Differential Case Bearing - Flange Half
28	8033316	1	Cone, Differential Case Bearing - Plain Half
29	8040666	1	Cone, Differential Case Bearing - Flange Half
30	8040667	8	Capscrew
31	8040629	20	Washer
32	8040676	1	Differential Case (Includes item 33)
33	NSS	1	Differential Case, Plain Half
34	8040660	4	Washer, Thrust
35	8040661	4	Pinion, Differential
36	8040671	2	Washer, Thrust
37	8040672	2	Gear, Side
38	8040673	1	Spider
39	8040674	12	Capscrew
40	8040678	12	Nut
41	8040636	8	Capscrew
42	8040626	1	Housing, Axle
43	8040625	1	Plug
44	8033317	1	Plug
45	8040628	1	Plug, Oil Drain
46	8040633	12	Capscrew, Short
47	8040631	2	Capscrew, Short
48	8040632	2	Capscrew, Long
49	8033324	12	Washer
50	8040630	4	Washer
			<u>KITS</u>
	8040738	AR	Bevel Pinion Bearing Spacer Kit (Includes two each of item 10)

Use combinations of two of these spacers for service

AXLE STEERING JOINTS

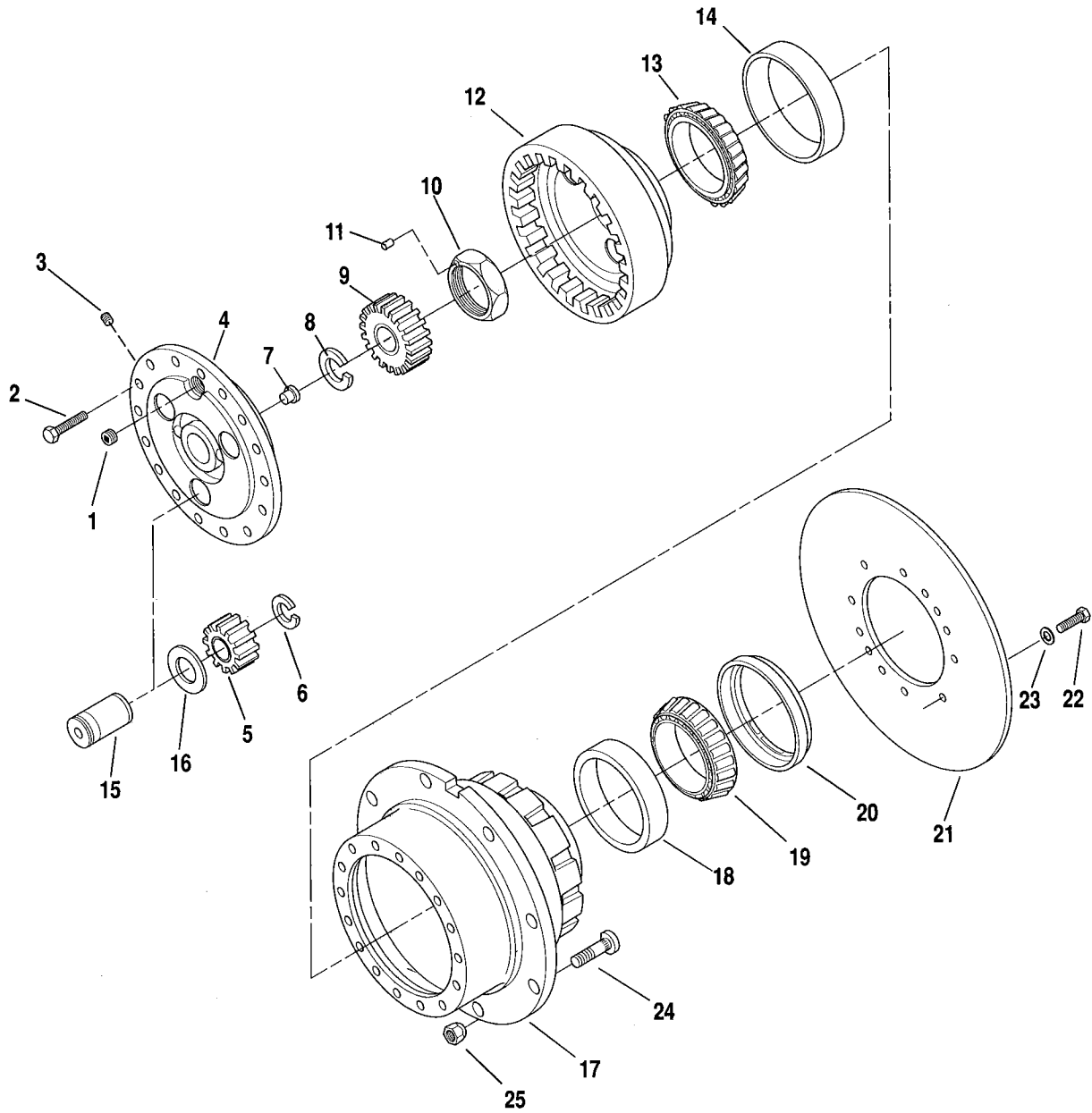


PB0321

AXLE STEERING JOINTS

Item No.	Part Number	Qty.	Description
NOTE: Quantities listed are for one complete axle			
1	8040717	2	Seal, Oil - Differential Housing & Universal Joint
2	8040622	2	Sleeve Assembly
3	8040722	2	Bushing, Differential Housing & Universal Joint
4	8040623	4	Plug, Trunnion Arm King Pin
5	8040624	4	Bushing, Trunnion Arm King Pin
6	8033319	4	Fitting, Grease
7	8040706	16	Capscrew
8	8040720	2	Cap, Steer Knuckle - Upper
9	8040709	10	Shim, Steer Knuckle Cap .003
10	8040710	8	Shim, Steer Knuckle Cap .005
11	8040711	4	Shim, Steer Knuckle Cap .020
12	8040732	1	Flange, Steer Knuckle (Right Front, Left Rear)
	8040733	1	Flange, Steer Knuckle (Left Front, Right Rear)
13	8040708	2	Washer, Steer Knuckle Thrust
14	8040707	2	Cap, Steer Knuckle - Lower
15	8033320	8	Capscrew
16	8040712	20	Capscrew
17	8040663	28	Washer
18	8033321	2	Spindle, Wheel Bearing (Includes items 19 & 20)
19	8040716	1	Bushing, Spindle
20	8040717	2	Seal, Oil - Spindle & Universal Joint
21	8040700	2	Universal Joint Assembly
22	8040734	4	Shaft, Outer Yoke
23	8040735	4	Shaft, Inner Yoke
24	8040736	4	Universal Joint
<u>KITS</u>			
	8040477	1	Kit, Heavy Duty Trunnion Arm King Pin Bushing For use in highly abrasive soil conditions.
<p style="text-align: center;">NOTE: If this kit is ever installed on an axle, the standard service parts listed above cannot be used to service the parts in this kit. (This kit includes enough new service parts of items 1, 5, 7 thru 11, 13, 14, 20 and item 20 on page 3.22 to service both wheel ends of one complete axle)</p>			

WHEEL END — FRONT AND REAR AXLE

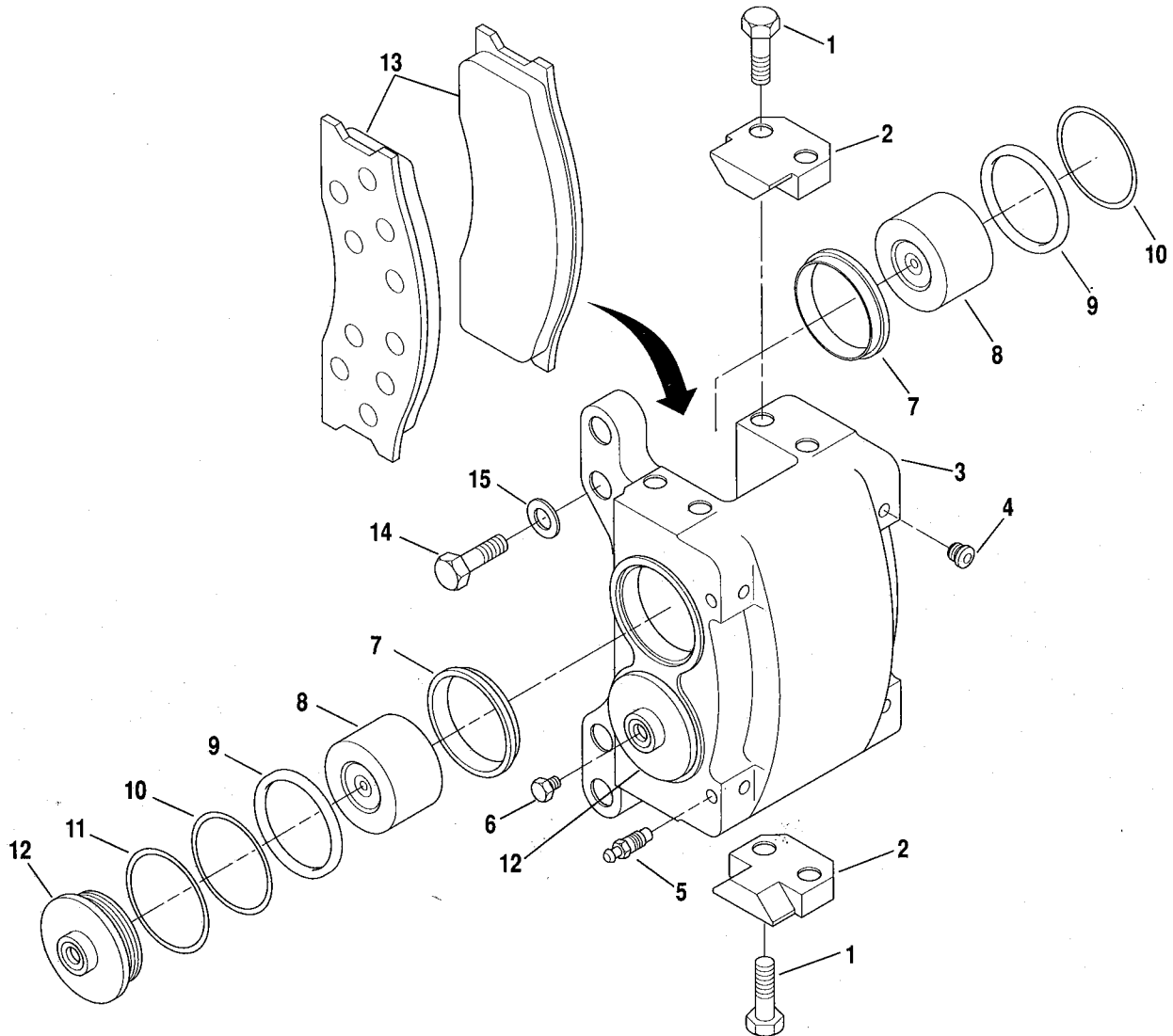


PB 0331

WHEEL END — FRONT AND REAR AXLE

Item No.	Part Number	Qty.	Description
NOTE: Quantities listed are for one wheel end assembly.			
1	8040628	1	Plug, Oil Level
2	8040682	16	Capscrew, Spider to Hub
3	8040683	3	Setscrew, Pinion Shaft
4	8040684	1	Spider, Planetary Gear (Includes items 5 & 6)
5	8040695	3	Pinion, Planetary (19T)
6	8040696	3	Ring, Snap
7	8040685	1	Button, Thrust
8	8040686	1	Ring, Snap - Universal Joint Retainer
9	8040687	1	Gear, Planetary Sun (20T)
10	8040689	1	Nut, Hub Bearing (Includes item 11)
11	8040688	1	Pin, Adjusting Nut
12	8040690	1	Gear, Planetary Ring (46T)
13	8040691	1	Cone, Hub Outer Bearing
14	8040692	1	Cup, Hub Outer Bearing
15	8040693	3	Shaft, Planetary Pinion
16	8040694	3	Washer, Thrust
17	8033322	1	Hub, Wheel (Includes items 18 & 19)
18	8040692	1	Cup, Hub Inner Bearing
19	8040691	1	Cone, Hub Inner Bearing
20	8040702	1	Seal, Oil - Wheel End Housing
21	8040703	1	Disc, Brake
22	8033323	12	Capscrew
23	8040663	12	Washer
24	8040698	8	Stud, Wheel
25	8040697	8	Nut, Wheel Stud

DISC BRAKE ASSEMBLY

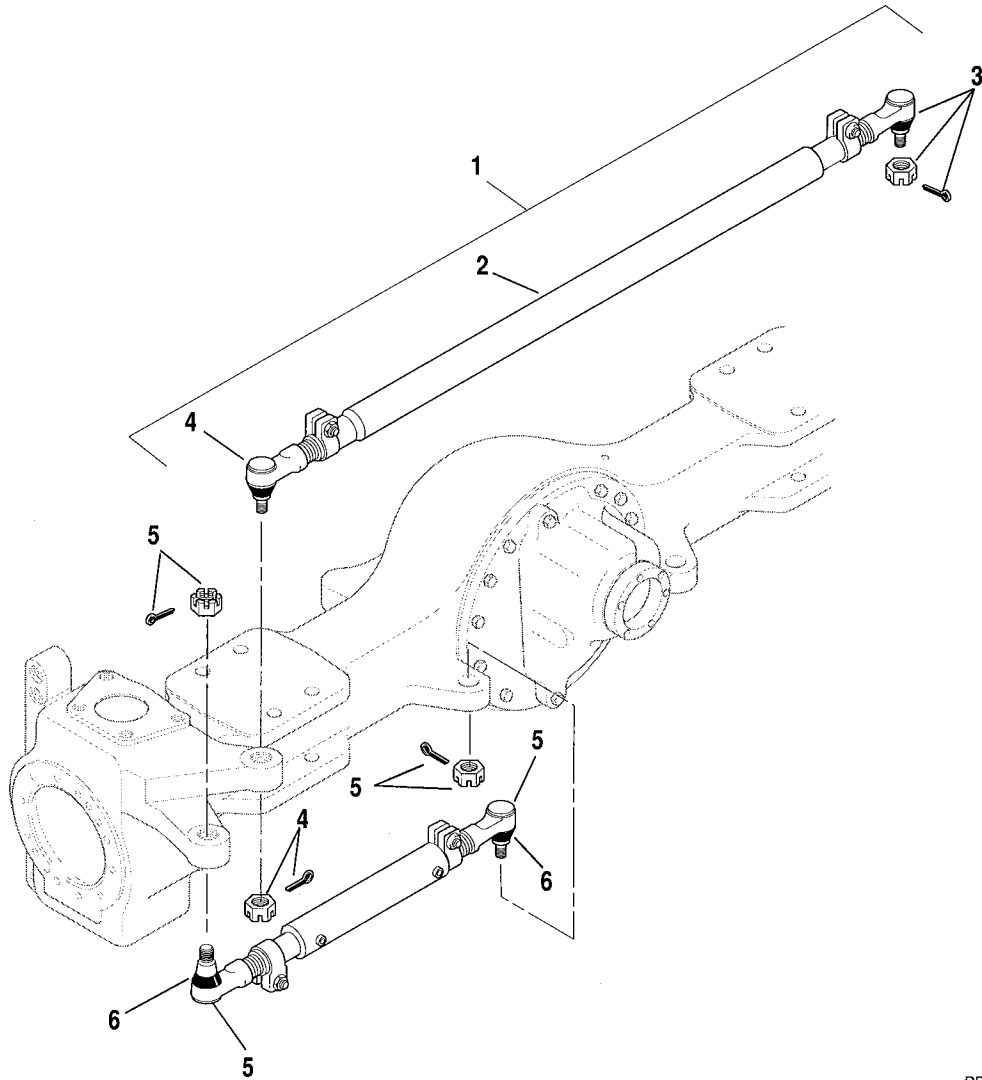


PB 0341

DISC BRAKE ASSEMBLY

Item No.	Part Number	Qty.	Description
			NOTE: Quantities listed are for one brake assembly. Four assemblies used per machine.
	8040677	1	Disc Brake Assembly (Includes items 1 thru 13)
1	8033326	8	Capscrew
2	8033327	4	Plate, Housing
3	8033328	1	Housing, Brake
4	8033329	4	Plug
5	8033330	2	Bleed screw, Brake
6	8033331	1	Plug
7	8033332	4	Seal, Dust
8	8102012	4	Piston
9	8033334	4	Ring, Backing
10	8033335	4	O-Ring
11	8033336	2	O-Ring
12	8033337	2	Cap
13	See Kits	2	Brake Lining Assembly
14	8040658	8	Capscrew, Brake Mounting
15	8040668	8	Washer, Brake Mounting
			<u>KITS</u>
	8102611	1	Seal & Dust Cover Kit (Includes items 7, 9, 10 & 11)
	8102407	1	Brake Lining Kit

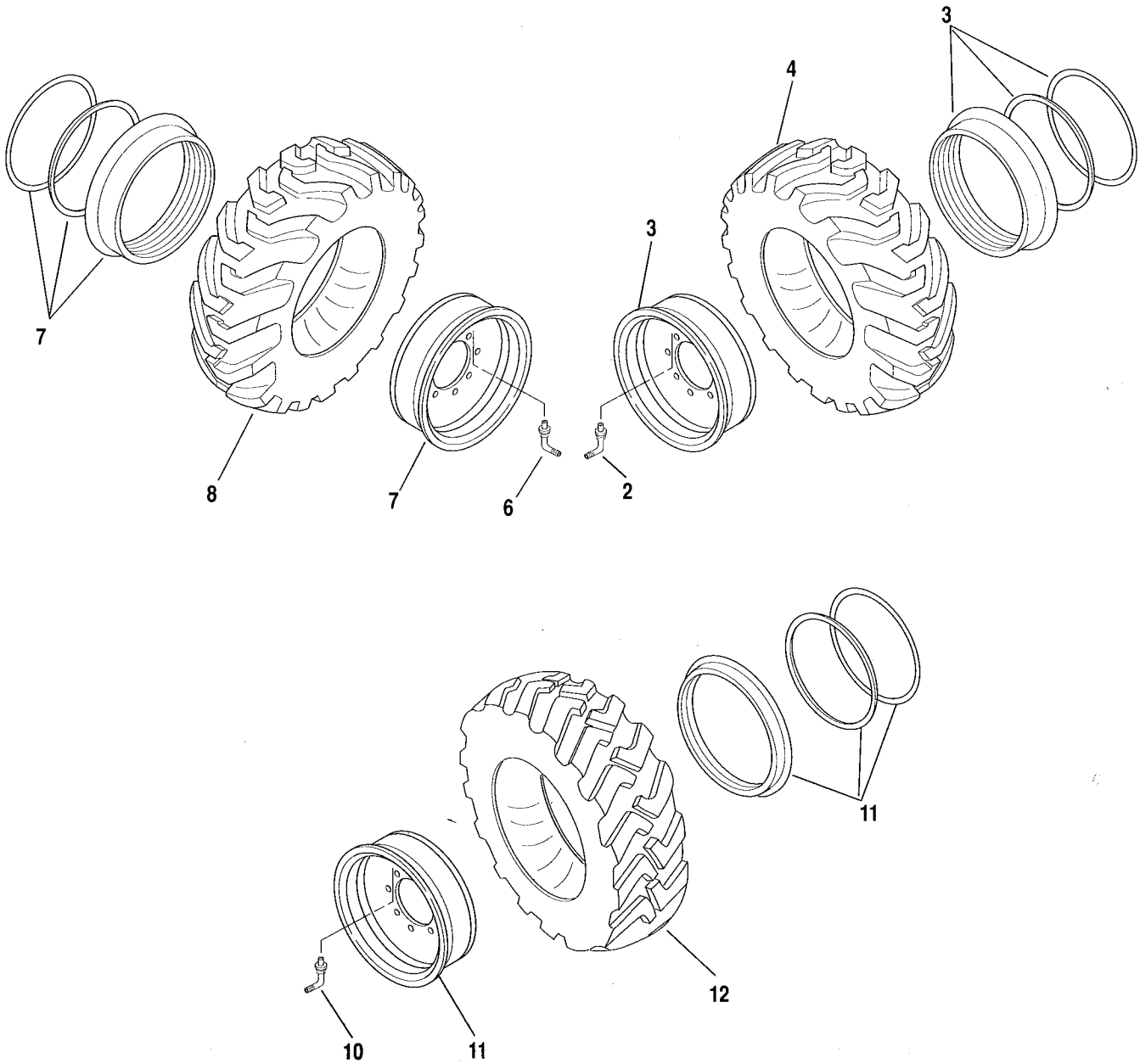
TIE ROD & STEERING CYLINDER MOUNTING



PB 0351

Item No.	Part Number	Qty.	Description
1	8040701	2	Tie Rod Assembly (Includes items 2 thru 4)
2	NSS See item 1	1	Tube, Tie Rod
3	8340032	1	Socket Assembly, R. H. Thread (Includes nut, cotter pin)
4	8340033	1	Socket Assembly, L. H. Thread (Includes nut, cotter pin)
5	8340025	8	Socket Assembly, Steering Cylinder (Includes item 6, nut, cotter pin & clamp)
6	8032816	8	Boot

WHEELS AND TIRES

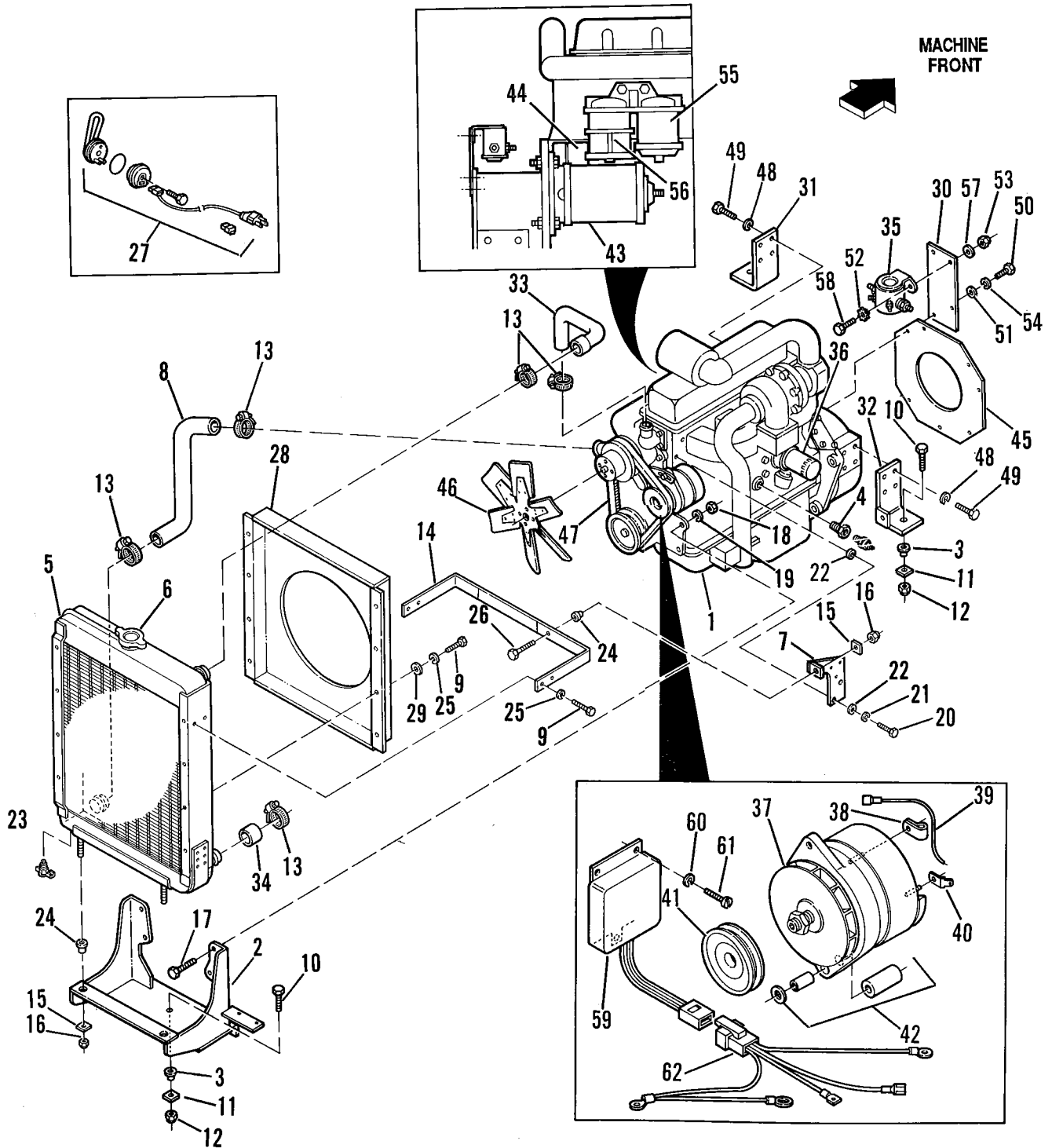


PB 0361

WHEELS AND TIRES

Item No.	Part Number	Qty.	Description
1	7088732	2	Tire & Wheel Assembly, Right Side -14.00 x 24, 10 ply (Includes items 2 thru 4)
2	8786549	1	Stem, Valve
3	7069683	1	Wheel, 8.00 - 24 TGF
4	8780254	1	Tire, 14.00 - 24, 10 Ply
5	7088742	2	Tire & Wheel Assembly, Left Side - 14.00 x 24, 10 ply (Includes items 6 thru 8)
6	8786549	1	Stem, Valve
7	7069683	1	Wheel, 8.00 - 24 TGF
8	8780254	1	Tire, 14.00 - 24, 10 Ply
9	7091992	4	Tire & Wheel Assembly - Nondirectional - 13.00 x 24, 14 ply (Includes items 10 thru 12)
10	8786549	1	Stem, Valve
11	7069683	1	Wheel, 8.00 - 24 TGF
12	8780264	1	Tire, 13.00 x 24 Michelin Radial

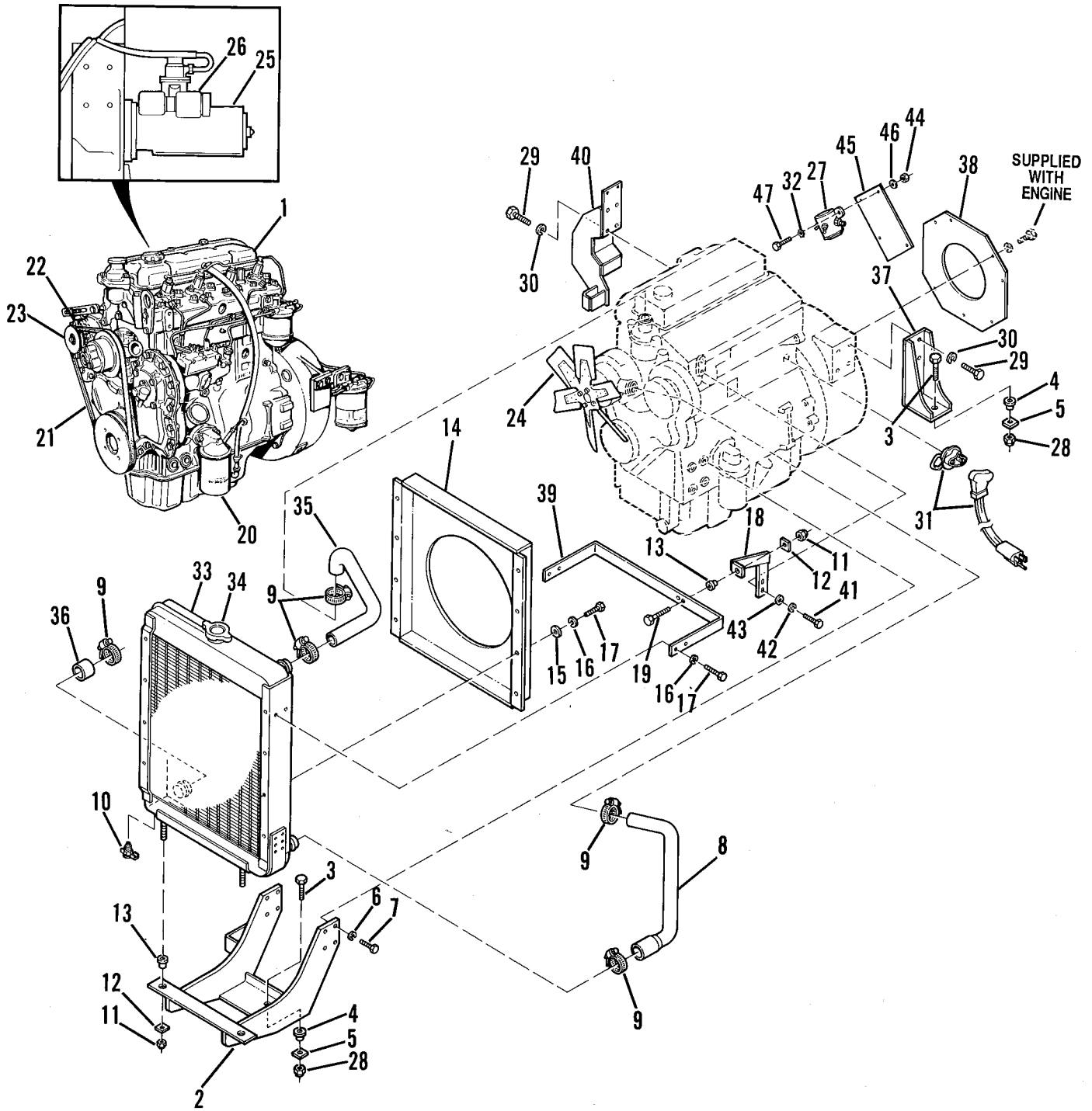
ENGINE AND RADIATOR MOUNTING (FORD — BSD 444T)



ENGINE AND RADAIOR MOUNTING (FORD — BSD 444T)

Item No.	Part Number	Qty.	Description
1	8262112	1	Engine, Ford BSD - 444T Diesel
2	7077813	1	Bracket, Engine & Radiator Mount
3	8278007	3	Mount, Rubber
4	8541030	1	Reducer, 1/4 NPT x 1/8 NPT
5	7079304	1	Radiator (Includes item 6)
6	8180306	1	Cap Radiator
7	7067522	1	Bracket, Top Rad. Support
8	7079313	1	Hose, Lower Radiator
9	8303729	12	Screw, Hex Hd Cap, 1/4-20 x 5/8 Gr 5
10	8303638	3	Screw, Hex Hd Cap, 3/4-10 x 2-3/4 Gr5
11	7054351	3	Washer, Rebound
12	8305619	3	Nut, Hex Lock, 3/4-10
13	8405104	5	Clamp, Hose, 2-1/4"
14	7058602	1	Bracket, Radiator Mount
15	7057141	3	Washer, Rebound
16	8305618	3	Nut, Hex, 3/8-16
17	8303639	4	Screw, Hex Hd Cap, 3/4-10 x 3.00 Gr 5
18	8305017	4	Nut, Hex 3/4-10
19	8307010	4	Lockwasher, 3/4
20	8303681	2	Screw, Hex Hd Cap, 3/8-16 x 3/4 Gr 5
21	8307005	2	Lockwasher, 3/8
22	8307204	4	Washer, Flat 3/8
23	8904001	1	Cock, Drain, 1/4NPT
24	8278008	3	Mount, Vibration
25	8307002	12	Lockwasher, 1/4
26	8303622	1	Screw, Hex Hd Cap, 3/8-16 x 2.00 Gr 5
27	8277090	1	Coolant Heater, Engine - Optional
28	7079543	1	Shroud, Radiator
29	8307202	8	Washer, Flat 1/4
30	7069202	1	Mount, Starter Relay
31	7085452	1	Mount, Engine L. H.
32	7085462	1	Mount, Engine R. H.
33	7090172	1	Hose, Radiator Top
34	8403221	1	Cap, Radiator Port
35	8277065	1	Relay, Starter
36	8033471	1	Element, Oil Filter
37	8270213	1	Alternator
38	8406008	1	Clamp
39	7090091	1	Wire Assembly
40	8220073	1	Terminal
41	8276014	1	Pulley
42	8277103	1	Adapter Kit
43	8033468	1	Starter (Includes item 39)
44	8033469	1	Solenoid, Starter
45	7054632	1	Cover, Flywheel Housing
46	8033467	1	Fan, Cooling
47	8033470	1	Belt, Fan
48	8307007	8	Lockwasher, 1/2
49	8303625	8	Screw, Hex Hd Cap, 1/2-13 x 1-1/4 Gr 5
50	8303620	2	Screw, Hex Hd Cap, 3/8-16 x 1.00 Gr 5
51	8307204	2	Washer, Flat 3/8
52	8310002	2	Lockwasher, External Tooth 1/4
53	8305601	2	Locknut, 1/4
54	8307005	2	Lockwasher, 3/8
55	8033472	1	Kit, Fuel Filter
56	8033473	1	Bowl, Sediment
57	8307109	2	Washer, Flat 1/4
58	8303705	2	Screw, Flg Hd Cap, 1/4-20 x 3/4 Gr 5
59	8022023	1	Regulator, Voltage
60	8307003	3	Lockwasher, #10
61	8303837	3	Screw, Slotted Pan Hd, #10-24 NC x 3/4
62	7090182	1	Wire Assembly

ENGINE AND RADIATOR MOUNTING (PERKINS 4.236T — TURBO)

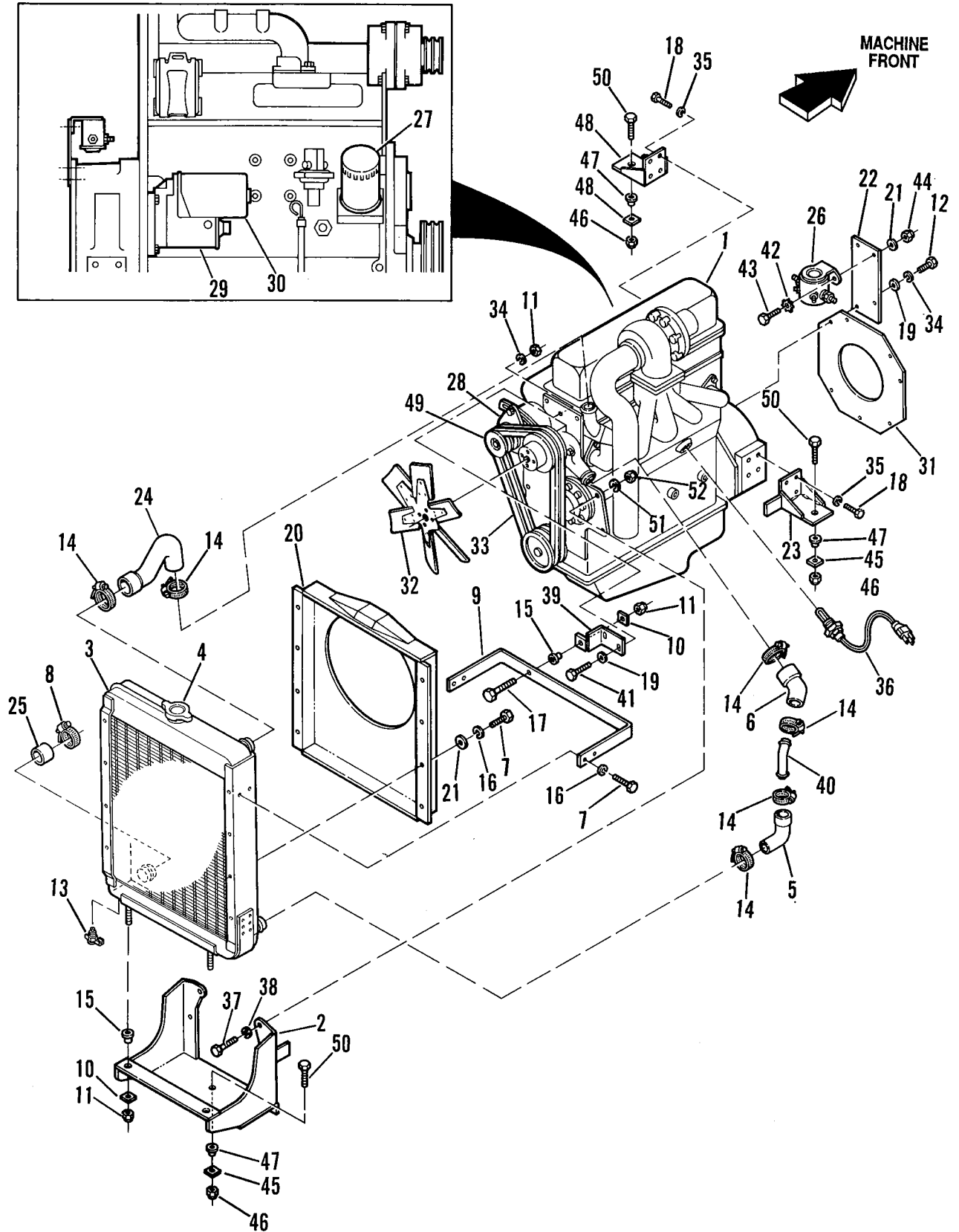


PB0380

ENGINE AND RADIATOR MOUNTING (PERKINS 4.236T — TURBO)

Item No.	Part Number	Qty.	Description
1	8262118	1	Engine, Perkins 4.236T Diesel
2	7077873	1	Mount, Engine
3	8303639	3	Screw, Hex Hd Cap, 3/4-10 x 3" Gr 5
4	8278007	3	Mount, Vibration
5	7054351	3	Washer, Rebound
6	8307006	8	Lockwasher, 7/16
7	8303604	8	Screw, Hex Hd Cap, 7/16-20 x 1-1/4
8	7079523	1	Hose, Radiator, Lower
9	8405104	5	Clamp, Hose, 2-1/4
10	8904001	1	Draincock, 1/4 NPT
11	8305618	3	Locknut, 3/8-16 ESNA
12	7057141	3	Washer, Rebound
13	8278008	3	Mount, Vibration
14	7072733	1	Shroud, Radiator
15	8307202	8	Washer, Flat, 1/4
16	8307002	12	Washer, Lock. 1/4
17	8303729	12	Screw, Hex Hd Cap, 1/4-20 x 5/8 Gr 5
18	7072772	1	Bracket, Radiator, Upper
19	8303622	1	Screw, Hex Hd Cap, 3/8NC x 2.0
20	8320242	1	Element, Engine Oil Filter
21	8080023	1	Belt, Fan
22	8270219	1	Alternator
23	8082113	1	Pulley, Alternator
24	8272005	1	Fan, Cooling
25	8270411	1	Starter
26	8270412	1	Solenoid, Starter
27	8277065	1	Relay, Starter
28	8305619	3	Locknut, 3/4-10NC
29	8303625	8	Screw, Hex Hd Cap, 1/2-13 x 1-1/4 Gr 5
30	8307007	8	Lockwasher, 1/2
31	8277094	1	Heater, Engine Coolant (Option)
32	8310002	2	Lockwasher, External Tooth 1/4
33	7079304	1	Radiator (Includes Item 34)
34	8180306	1	Cap, Radiator
35	7079533	1	Hose, Radiator, Upper
36	8403221	1	Cap, Test
37	7072392	1	Bracket, Engine Mount R. H.
38	7054632	1	Cover, Flywheel Housing
39	7070572	1	Bracket, Radiator Mount
40	7072403	1	Bracket, Engine Mount L. H.
41	8303510	2	Screw, Hex Hd Cap, 3/8-24 x 1.00 Gr 5
42	8307005	2	Lockwasher, 3/8
43	8307204	2	Washer, Flat 3/8
44	8305601	2	Locknut, 1/4-20
45	7069202	1	Bracket, Starter Relay
46	8307109	2	Washer, Flat 1/4
47	8303705	2	Screw, Hex Flange, 1/4-20 x 3/4

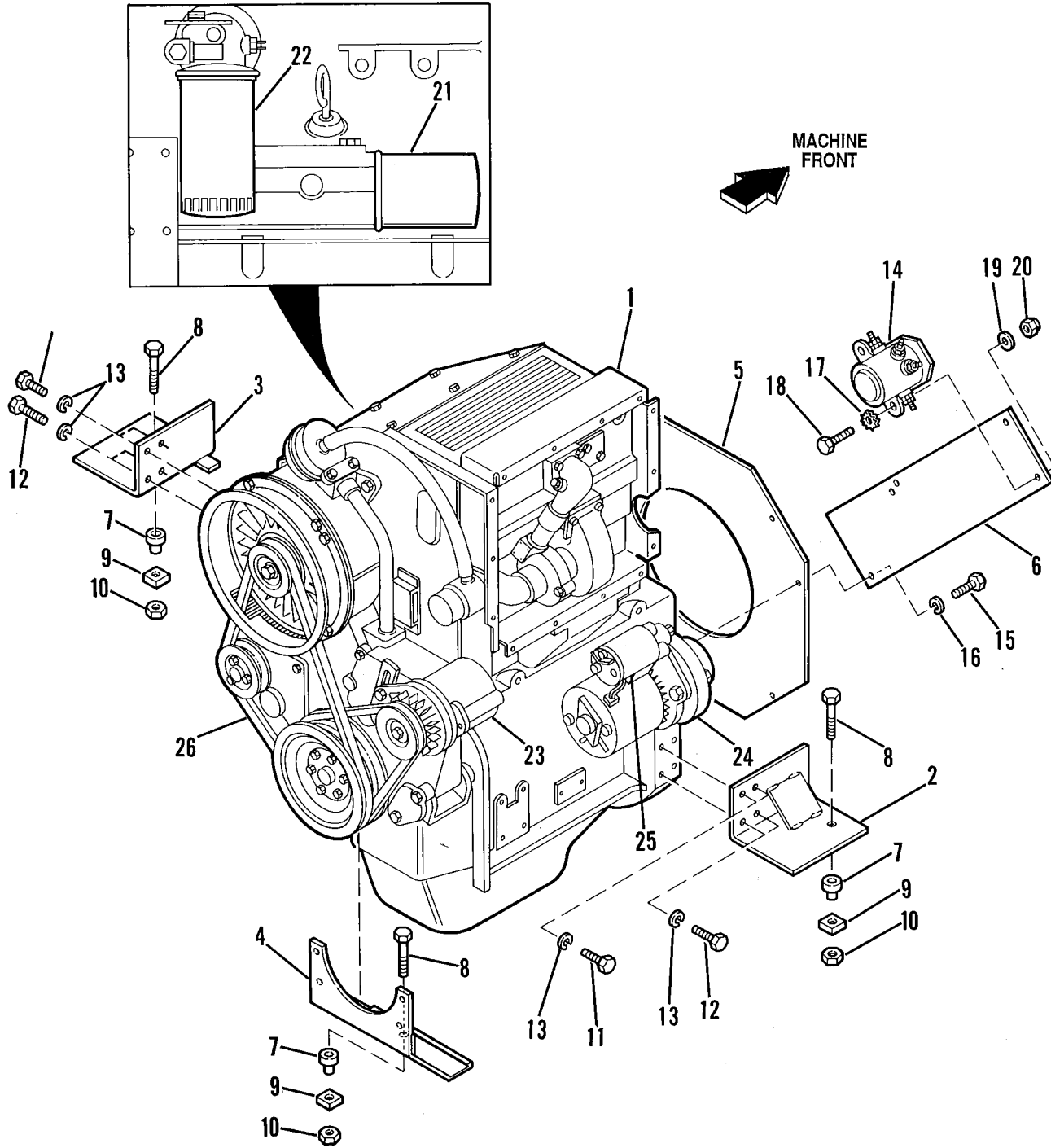
ENGINE AND RADIATOR MOUNTING (JOHN DEERE — 4239T TURBO)



ENGINE AND RADIATOR MOUNTING (JOHN DEERE — 4239T TURBO)

Item No.	Part Number	Qty.	Description
1	8262116	1	Engine, John Deere- 4239T—Turbo
2	7077913	1	Bracket, Engine & Radiator Mount
3	7079304	1	Radiator (Includes item 6)
4	8180306	1	Cap Radiator
5	7079332	1	Hose, Lower Radiator 1-3/4"
6	7079342	1	Hose, Lower Radiator 2"
7	8303729	12	Screw, Hex Hd Cap, 1/4-20 x 5/8 Gr 5
8	8405104	1	Clamp, Hose 2-1/4"
9	7070572	1	Bracket, Radiator Mount
10	7057141	3	Washer, Rebound
11	8305618	3	Nut, Hex, 3/8-16
12	8303681	6	Screw, Hex Hd Cap, 3/8-16 x 3/4 Gr 5
13	8904001	1	Cock, Drain, 1/4NPT
14	8275201	6	Clamp, Hose
15	8278008	3	Mount, Vibration
16	8307002	12	Lockwasher 1/4
17	8303622	1	Screw, Hex Hd Cap, 3/8-16 x 2.00 Gr 5
18	8303625	8	Screw, Hex Hd Cap, 1/2-13 x 1-1/4 Gr 5
19	8307204	8	Washer, Flat 3/8
20	7070703	1	Shroud, Radiator
21	8307202	10	Washer, Flat 1/4
22	7069202	1	Mount, Starter Relay
23	7077962	1	Mount, Engine R. H.
24	7079364	1	Hose, Radiator Upper 1-3/4"
25	8403221	1	Cap, Radiator Port 1-3/4"
26	8277065	1	Relay, Starter
27	8320239	1	Element, Oil Filter
28	8033438	1	Alternator
29	8033439	1	Starter
30	8033440	1	Solenoid, Starter
31	7071232	1	Cover, Flywheel Housing
32	8033476	1	Fan, Cooling
33	8033441	1	Belt Set
34	8307005	6	Lockwasher, 3/8
35	8307007	8	Lockwasher, 1/2
36	8277138	1	Heater, Engine Coolant
37	8303699	4	Screw, Hex Hd Cap, 5/8-11 x 1-1/4 Gr 5
38	8307009	4	Lockwasher, 5/8
39	7070552	1	Bracket, Radiator Support
40	7079352	1	Tube, Water
41	8303621	2	Screw, Hex Hd Cap, 3/8-16 x 1-1/2
42	8310002	2	Lockwasher, External Tooth, 1/4
43	8303705	2	Screw, Hex Hd Cap, 1/4-20 x 3/4
44	8305601	2	Nut, Lock 1/4-20
45	7054351	3	Washer, Rebound
46	8305619	3	Nut, Hex 3/4-10 UNC
47	8278007	3	Mount, Vibration
48	7071202	1	Mount, Engine L.H.
49	8033442	1	Pulley, Alternator
50	8303639	3	Screw, Hex Hd Cap, 3/4-10 x 3.00 Gr 5
51	8307107	4	Washer, Flat 5/8
52	8305014	4	Nut, Hex 5/8-11

ENGINE MOUNTING (DEUTZ — BF4L 913)

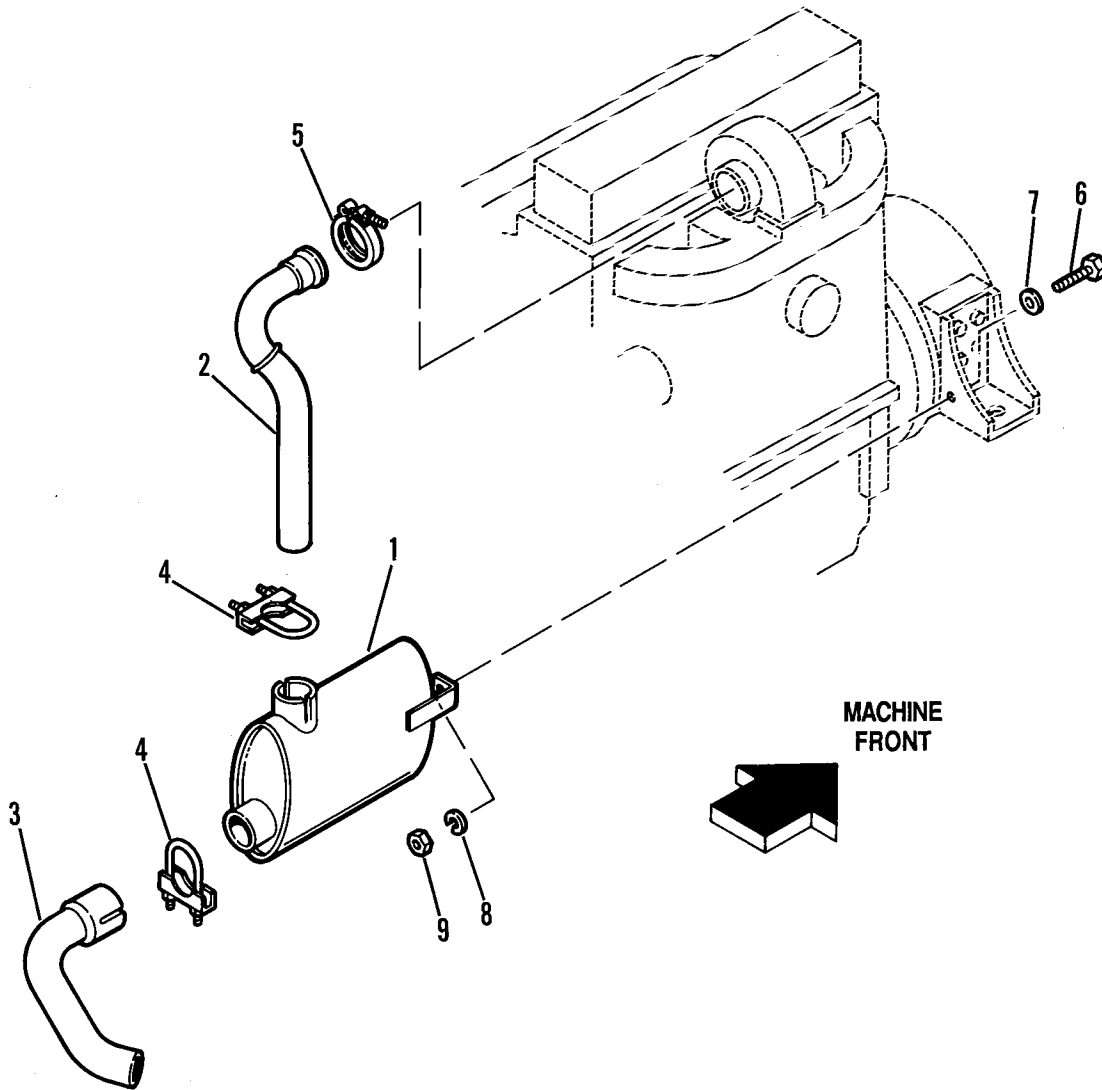


PB0400

ENGINE MOUNTING (DEUTZ — BF4L 913)

Item No.	Part Number	Qty.	Description
1	8262309	1	Engine, 106 HP Turbo, BF4L913
2	7084142	1	Bracket, Front Engine Mount R.H.
3	7084152	1	Bracket, Front Engine Mount L. H.
4	7084501	1	Bracket, Engine Mount, Rear
5	7054632	1	Cover, Flywheel Housing
6	7084181	1	Mount, Starter Relay
7	8278007	3	Mount, Rubber
8	8303639	3	Screw, Hex Hd Cap, 3/4 -10 x 3" Gr 5
9	7054351	3	Washer, Rebound
10	8305619	3	Nut, Hex Lock, 3/4 -10
11	8303519	4	Screw, Hex Hd Cap, M12 x 1.75 x 35mm, PC 8.8
12	8303618	4	Screw, Hex Hd Cap, M12 x 1.75 x 25mm, PC 8.8
13	8307025	8	Lockwasher, M12
14	8277065	1	Relay, Starter
15	8303551	6	Screw, Hex Hd Cap, M 10 x 15mm, PC 8.8
16	8307023	6	Lockwasher, M10
17	8310002	2	Lockwasher,Ext. Tooth 1/4
18	8303705	2	Screw, Hex Hd Cap, 1/4 NC x 3/4
19	8307109	2	Washer, Flat 1/4
20	8305601	2	Locknut 1/4 NC
21	8320263	1	Element, Fuel Filter
22	8320264	1	Element, Oil Filter
23	8033443	1	Alternator
24	8033444	1	Starter
25	8033445	1	Solenoid, Starter
26	8033446	1	V-Belt

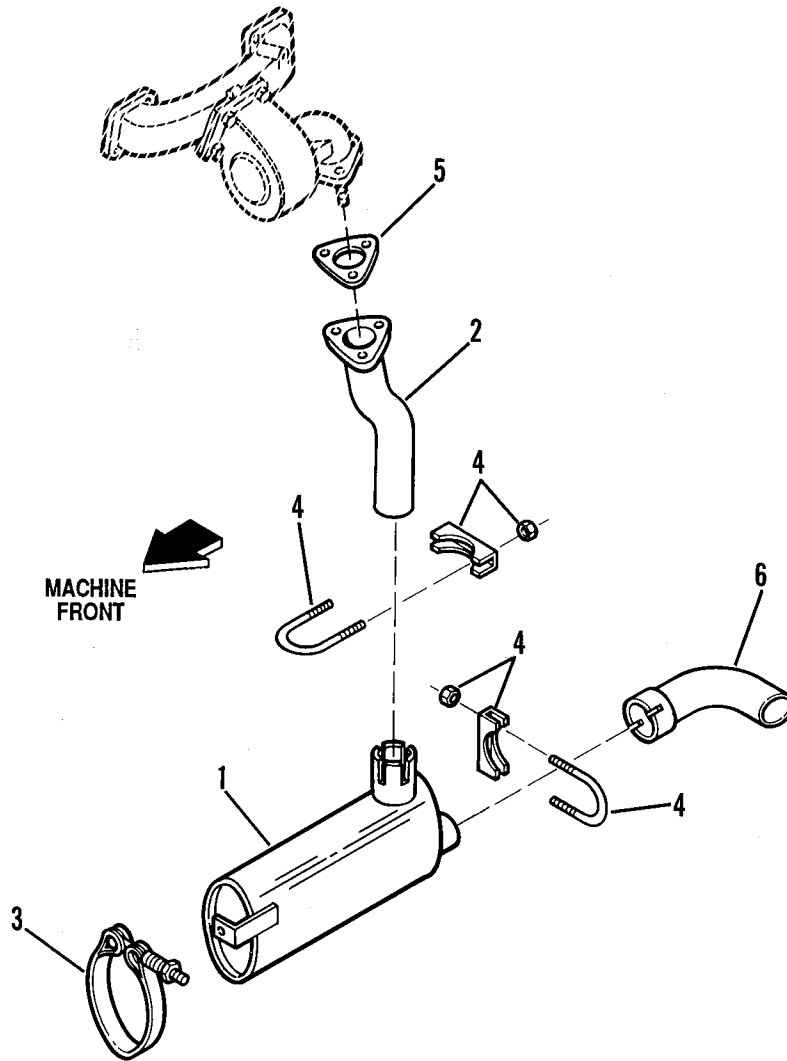
EXHAUST SYSTEM (FORD)



PB0410

Item No.	Part Number	Qty.	Description
1	7066882	1	Muffler
2	7080562	1	Pipe, Exhaust
3	7089802	1	Pipe, Tail
4	8275212	2	Clamp, Muffler 2-1/2 Dia.
5	8275233	1	Clamp, "V"
6	8303625	1	Screw, Hex Hd Cap, 1/2-13 x 1-1/4 Gr5
7	8307206	1	Washer, Flat 1/2
8	8307007	1	Lockwasher 1/2
9	8305012	1	Nut, Hex 1/2-13

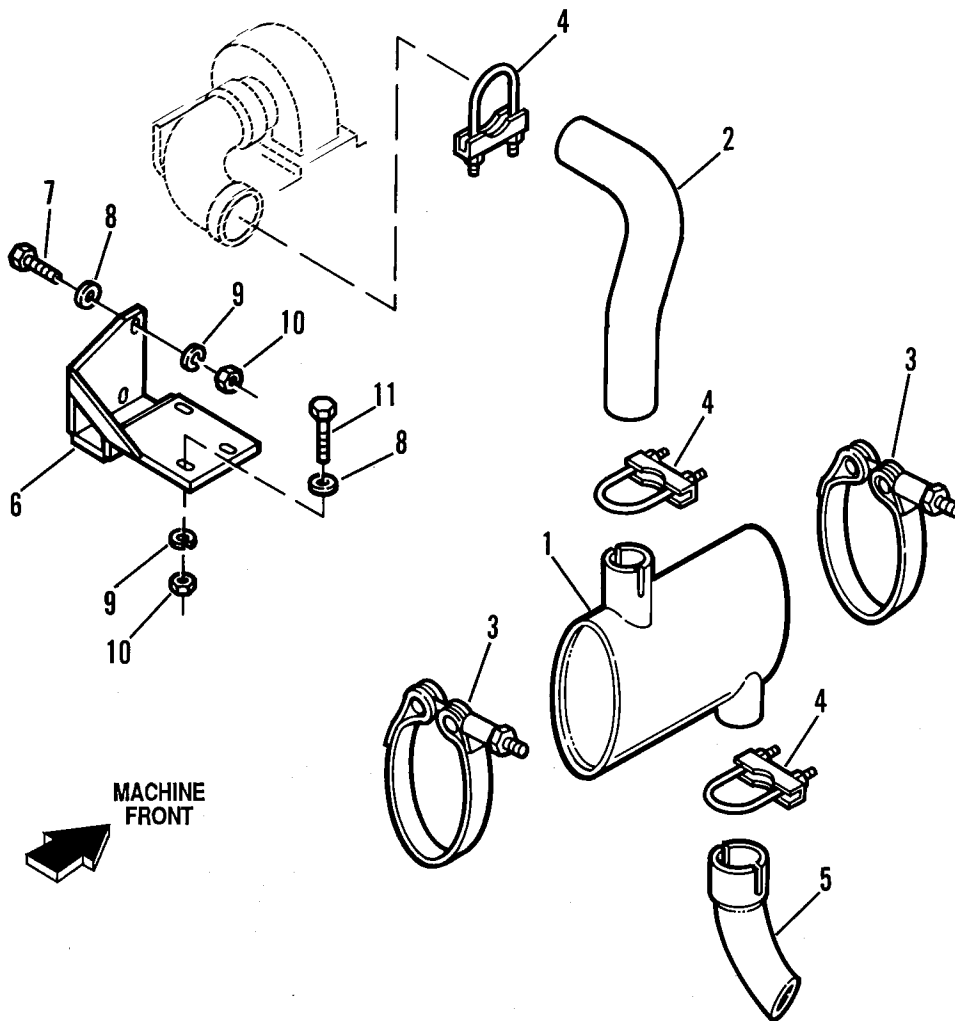
EXHAUST SYSTEM (PERKINS)



PB0420

Item No.	Part Number	Qty.	Description
1	7066882	1	Muffler
2	7076663	1	Pipe, Exhaust
3	8405604	2	Clamp, T-Bolt
4	8275212	2	Clamp, Muffler, 2-1/2 Dia.
5	8030128	1	Gasket, Exhaust Manifold
6	7089812	1	Pipe, Tail

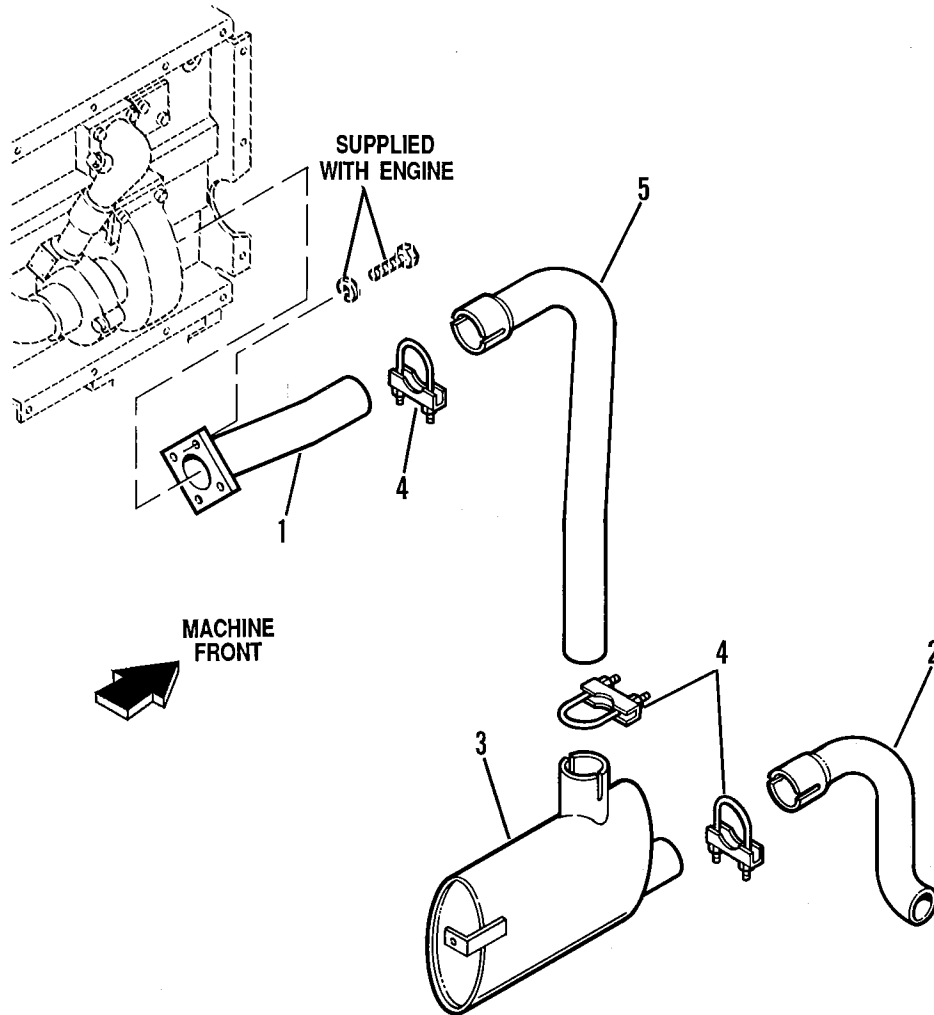
EXHAUST SYSTEM (JOHN DEERE)



PB0430

Item No.	Part Number	Qty.	Description
1	7070383	1	Muffler
2	7070392	1	Pipe, Exhaust
3	8405605	2	Clamp, T-Bolt
4	8275213	3	Clamp, Muffler, 4"
5	7070402	1	Pipe, Tail
6	7070832	1	Bracket, Exhaust Elbow Mounting
7	8303679	3	Screw, Hex Hd Cap, 3/8-16 x 1-3/4 Gr. 5
8	8307204	6	Washer, Flat, 3/8
9	8307005	6	Lockwasher, 3/8
10	8305008	6	Nut, Hex 3/8-16
11	8303622	3	Screw, Hex Hd Cap, 3/8-16 x 2 Gr. 5

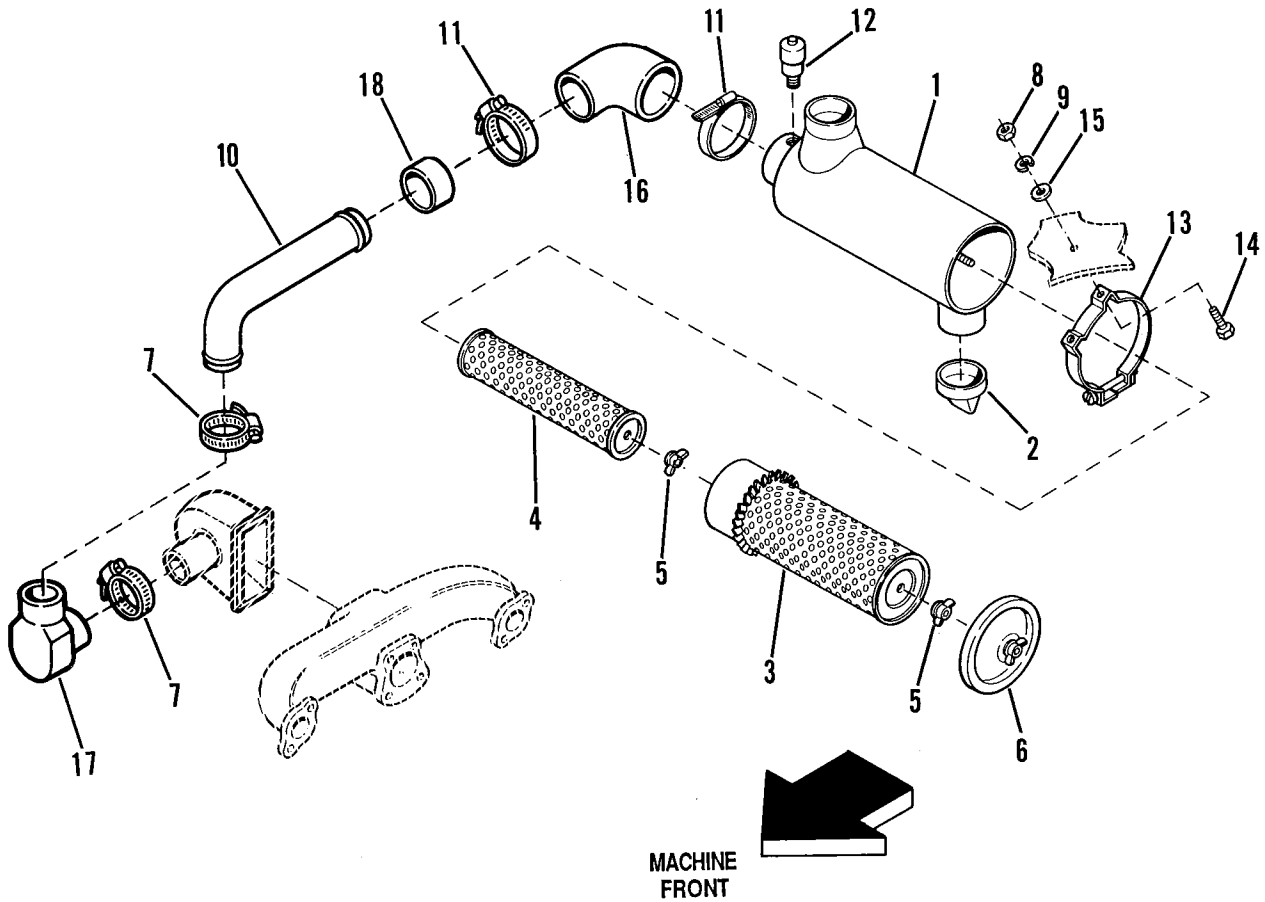
EXHAUST SYSTEM (DEUTZ)



PB0440

Item No.	Part Number	Qty.	Description
1	7084172	1	Pipe, Exhaust
2	7073632	1	Pipe, Tail
3	7066882	1	Muffler
4	8275212	3	Clamp, Muffler, 2-1/2" Dia.
5	7084272	1	Tube

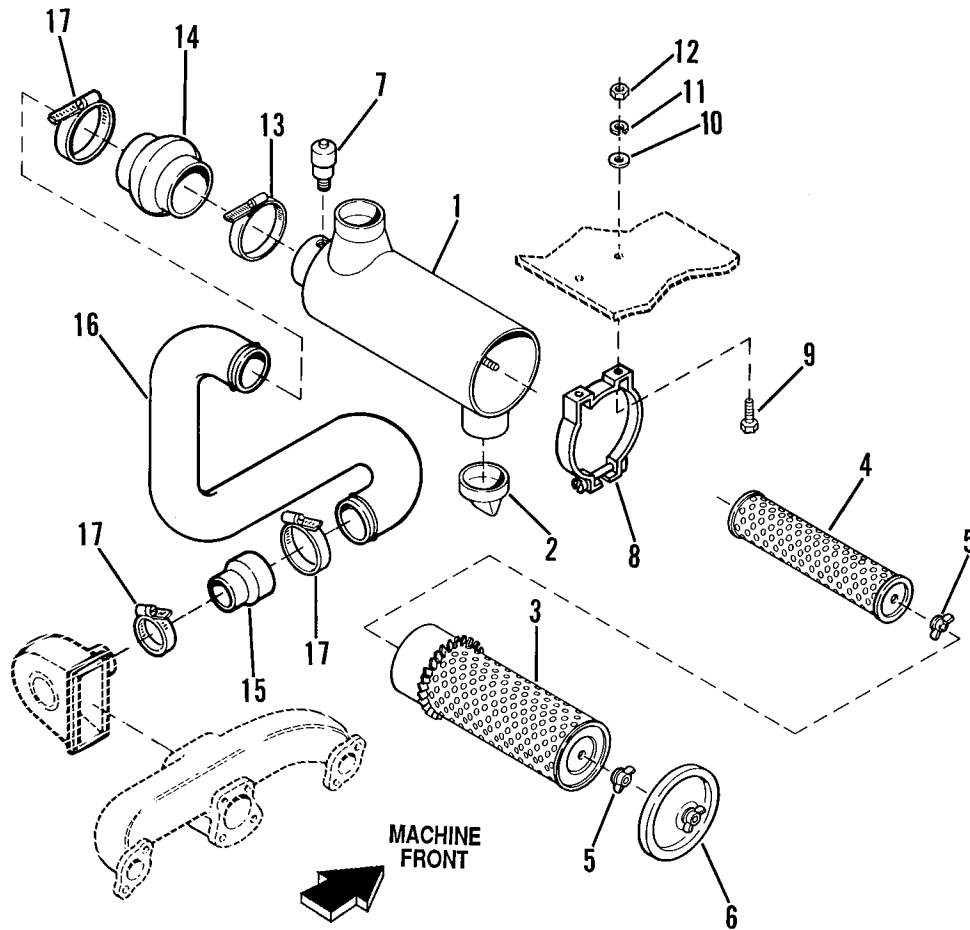
AIR CLEANER (FORD)



PB0450

Item No.	Part Number	Qty.	Description
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	8405202	2	Clamp, Hose 2-3/4
8	8305006	4	Nut, Hex 5/16-18 UNC
9	8307004	4	Lockwasher 5/16
10	7085282	1	Tube, Air Intake
11	8405301	2	Clamp, Hose 4" Max
12	8273241	1	Indicator, Air Service, 25 Inch
13	8273240	2	Band, Mounting 8"
14	8303697	4	Screw, Hex Hd Cap 5/16-18 x 3/4
15	8307203	4	Washer, Flat 5/16
16	8273262	1	Elbow, Reducing 3-1/2 to 3"
17	8273269	1	Elbow, 90° Reducing, 2-1/2 to 2-5/16
18	8402020-0025	1	Hose, 2-1/2 ID x 2-1/2' Long

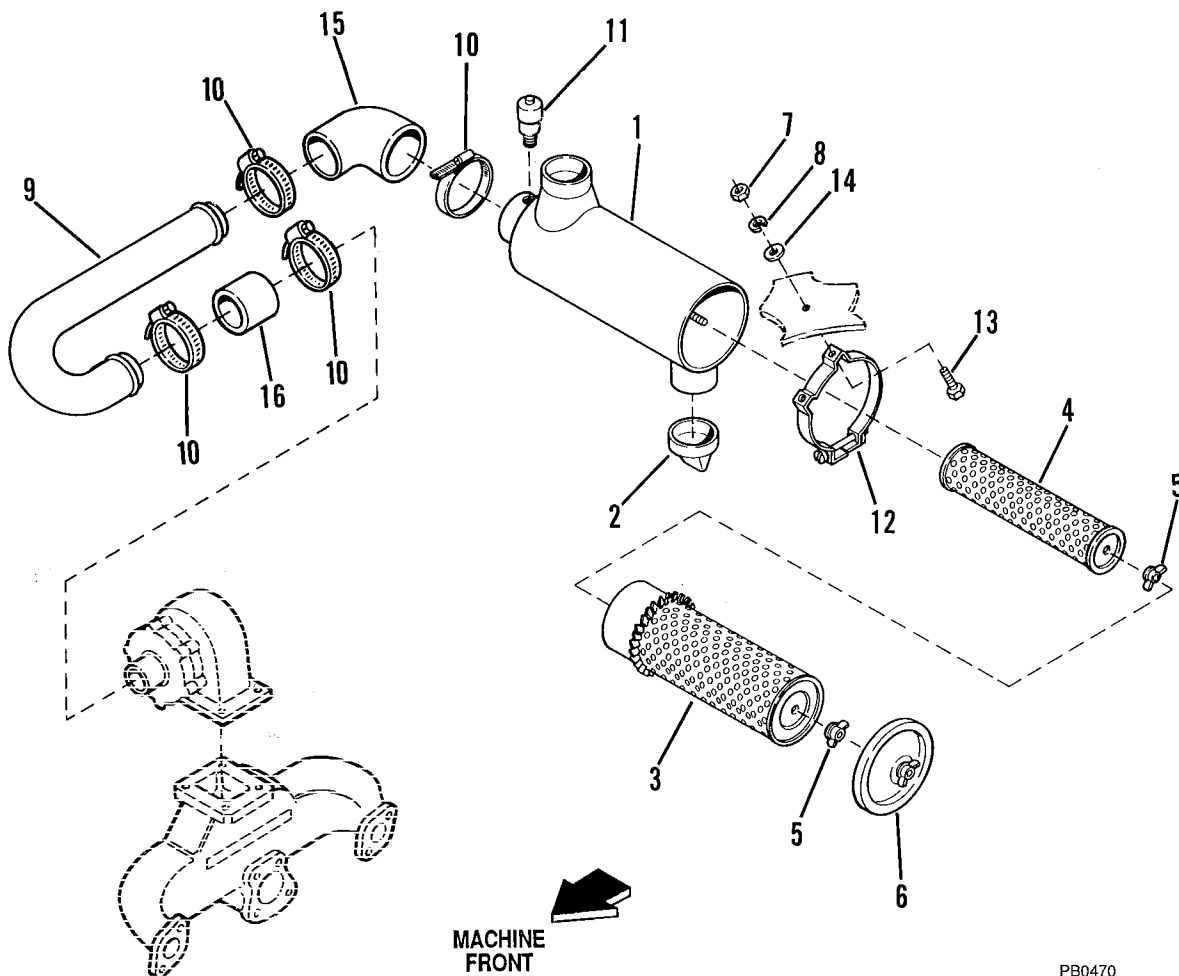
AIR CLEANER (PERKINS)



PB0460

Item No.	Part Number	Qty.	Description
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, 25 inch
8	8273240	2	Band, Mounting, 8"
9	8303697	4	Screw, Cap, Hex Hd, 5/16NC x 3/4
10	8307203	4	Washer, Flat, 5/16
11	8307004	4	Lockwasher, 5/16
12	8305006	4	Nut, Hex, 5/16NC
13	8405301	1	Clamp, Hose, 4 inch
14	8273117	1	Hump Hose
15	8273118	1	Reducer, Hose
16	7082372	1	Tube, Air Intake
17	8405203	3	Clamp, Hose, 3"

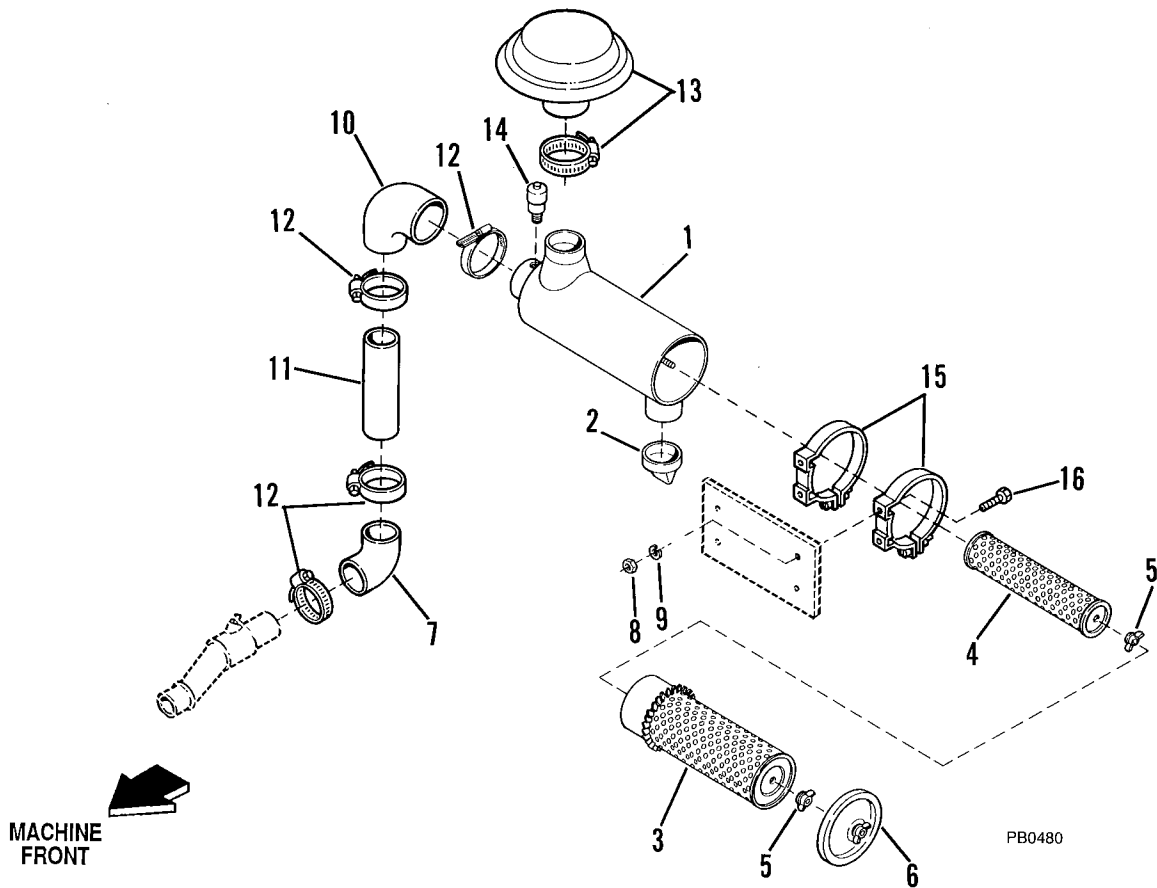
AIR CLEANER (JOHN DEERE)



PB0470

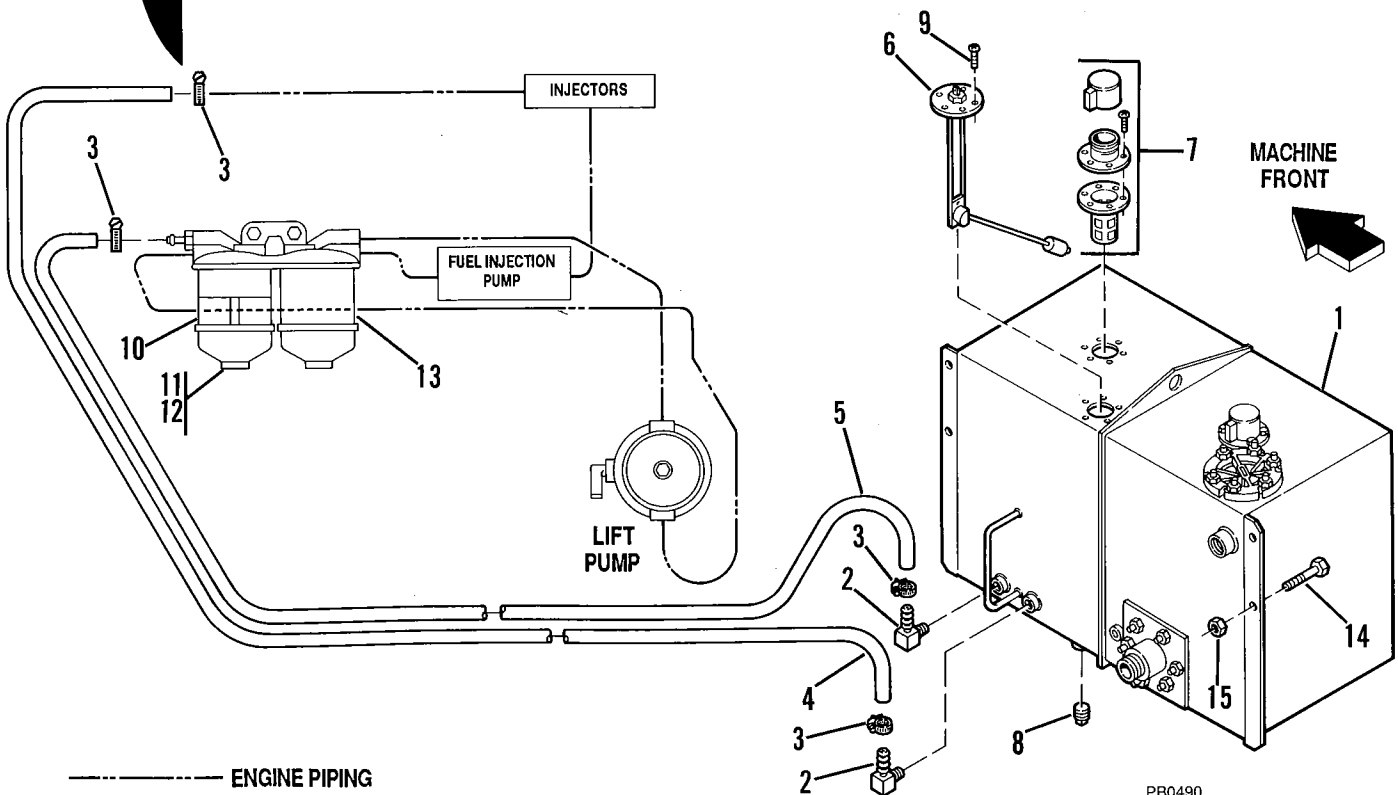
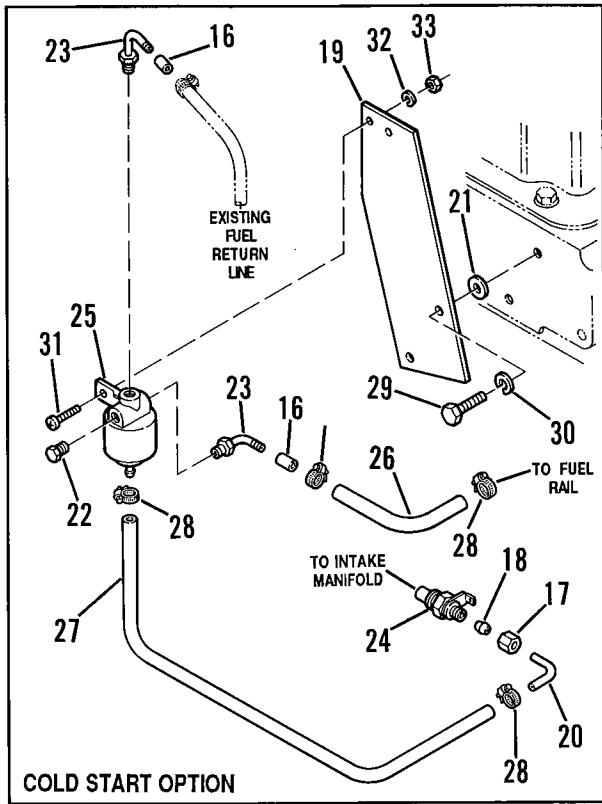
Item No.	Part Number	Qty.	Description
1	8273013	1	Air Cleaner Assembly (Includes items 2 thru 6)
2	8032764	1	Valve, Vacuator
3	8273237	1	Element, Primary
4	8273238	1	Element, Safety
5	8273272	2	Nut Assembly
6	8032762	1	Cover, End
7	8305006	4	Nut, Hex 5/16-18 UNC
8	8307004	4	Lockwasher 5/16
9	7079012	1	Tube, Air Intake
10	8405301	4	Clamp, Hose 4" Max
11	8273243	1	Indicator, Air Service, 25 Inch
12	8273240	2	Band, Mounting 8"
13	8303697	4	Screw, Hex Hd Cap 5/16-18 x 3/4
14	8307203	4	Washer, Flat 5/16
15	8273262	1	Elbow, Reducing 3-1/2 to 3"
16	8402018-0030	1	Hose 3 ID x 3" Long

AIR CLEANER (DEUTZ)



Item No.	Part Number	Qty.	Description
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	8273119	1	Elbow, 90° 3" ID
8	8305006	4	Nut, Hex 5/16-18 UNC
9	8307004	4	Lockwasher 5/16
10	8273262	1	Elbow, Reducing, 3-1/2 to 3
11	7084191	1	Tube, Air Intake
12	8405301	4	Clamp, Hose 4" Max
13	8273239	1	Cap, Air Inlet (w/clamp)
14	8273243	1	Indicator, Air Service, 25 Inch
15	8273240	2	Band, Mounting 8"
16	8303697	4	Screw, Hex Hd Cap 5/16-18 x 3/4

FUEL SYSTEM (FORD)

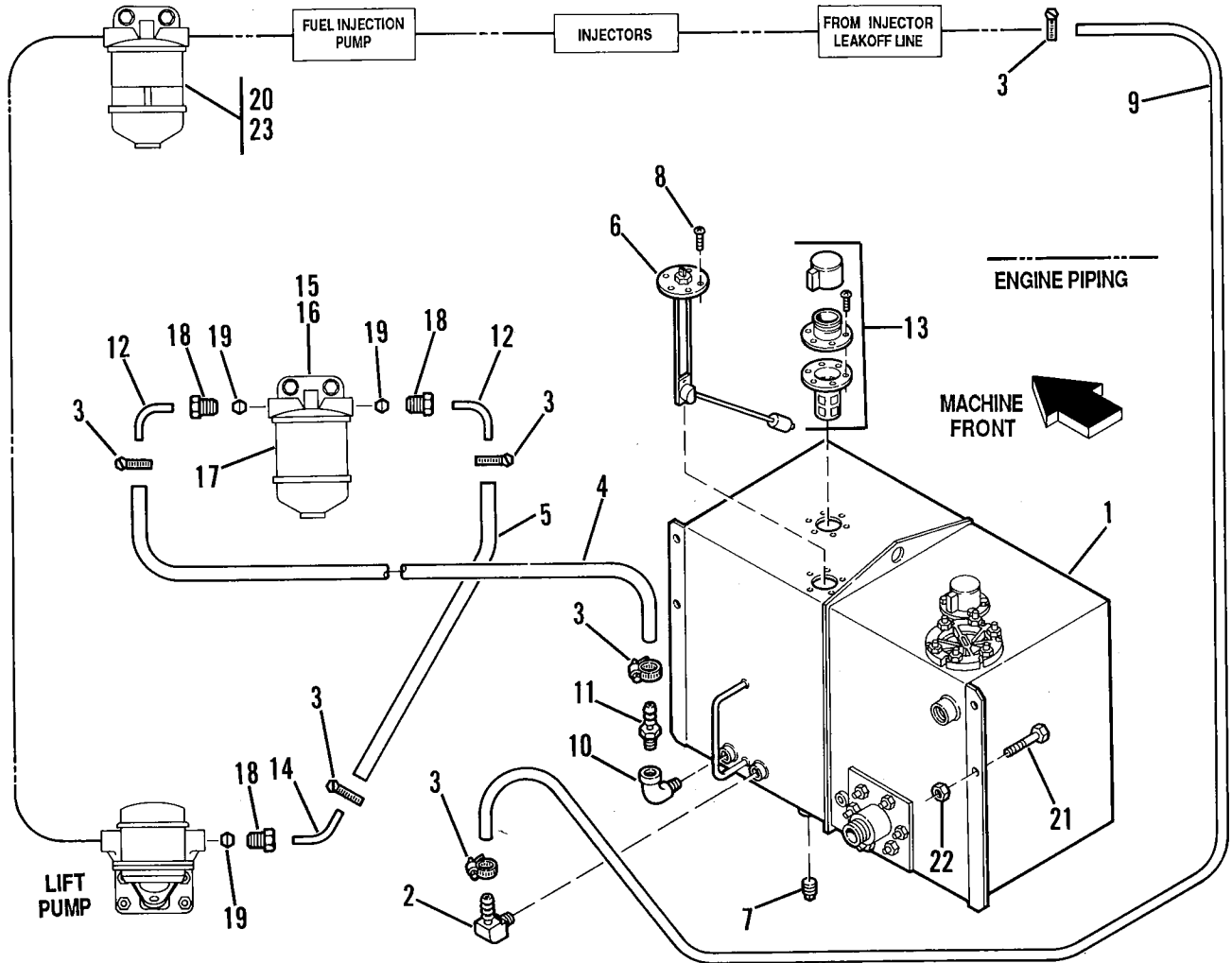


PB0490

FUEL SYSTEM (FORD)

Item No.	Part Number	Qty.	Description
1	7086664	1	Reservoir, Hydraulic/Fuel
2	8420227	2	Elbow, 90°, 1/4 NPT x 1/4 Hose
3	8405009	4	Clamp, Hose 5/8 Max. O.D.
4	8403214-1350	1	Hose, Fuel
5	8403214-1290	1	Hose, Fuel
6	7088792	1	Fuel Level Sender Assembly
7	8322022	1	Filler/Breather Assembly
8	8541409	1	Plug, Sq. Hd. 1 NPT
9	8303839	5	Screw, Pan Hd. #10 x 1/2
10	8033473	1	Bowl, Sediment
11	8033474	1	Plug, Bowl Drain
12	8033475	1	Washer
13	8033472	1	Kit, Fuel Filter (Includes 1 seal, 2 gaskets and 1 element)
14	8303632	4	Screw, Hex Hd Cap, 5/8-11 x 2-1/2 Gr 5
15	8305643	4	Locknut, 5/8-11 ESNA
Items 16 thru 33 are part of Cold Start Option			
16	8582006-0010	2	Tube, 1/4 O.D. Nylon, 1" long
17	8274212	1	Nut, 3/16 Tube
18	8274211	1	Sleeve, 3/16 Tube
19	7076842	1	Bracket, Reservoir
20	7091151	1	Tube, Heater Inlet
21	7076851	2	Spacer
22	8022062	1	Plug
23	8022069	2	Tube Assembly. 3/16 O.D.
24	8022074	1	Heater Plug Assembly
25	8022076	1	Reservoir
26	8403214-0100	1	Hose, Fuel
27	8403218-0180	1	Hose, Fuel
28	8405009	4	Clamp, Hose 5/8 Max O. D.
29	8303677	2	Screw, Hex Hd Cap, 7/16-14 x 1"
30	8307006	2	Lockwasher 7/16
31	8303837	2	Screw, Rd. Hd Machine, #10-24 x 3/4"
32	8307003	2	Lockwasher #10
33	8305002	2	Nut, Hex #10-24

FUEL SYSTEM (PERKINS)

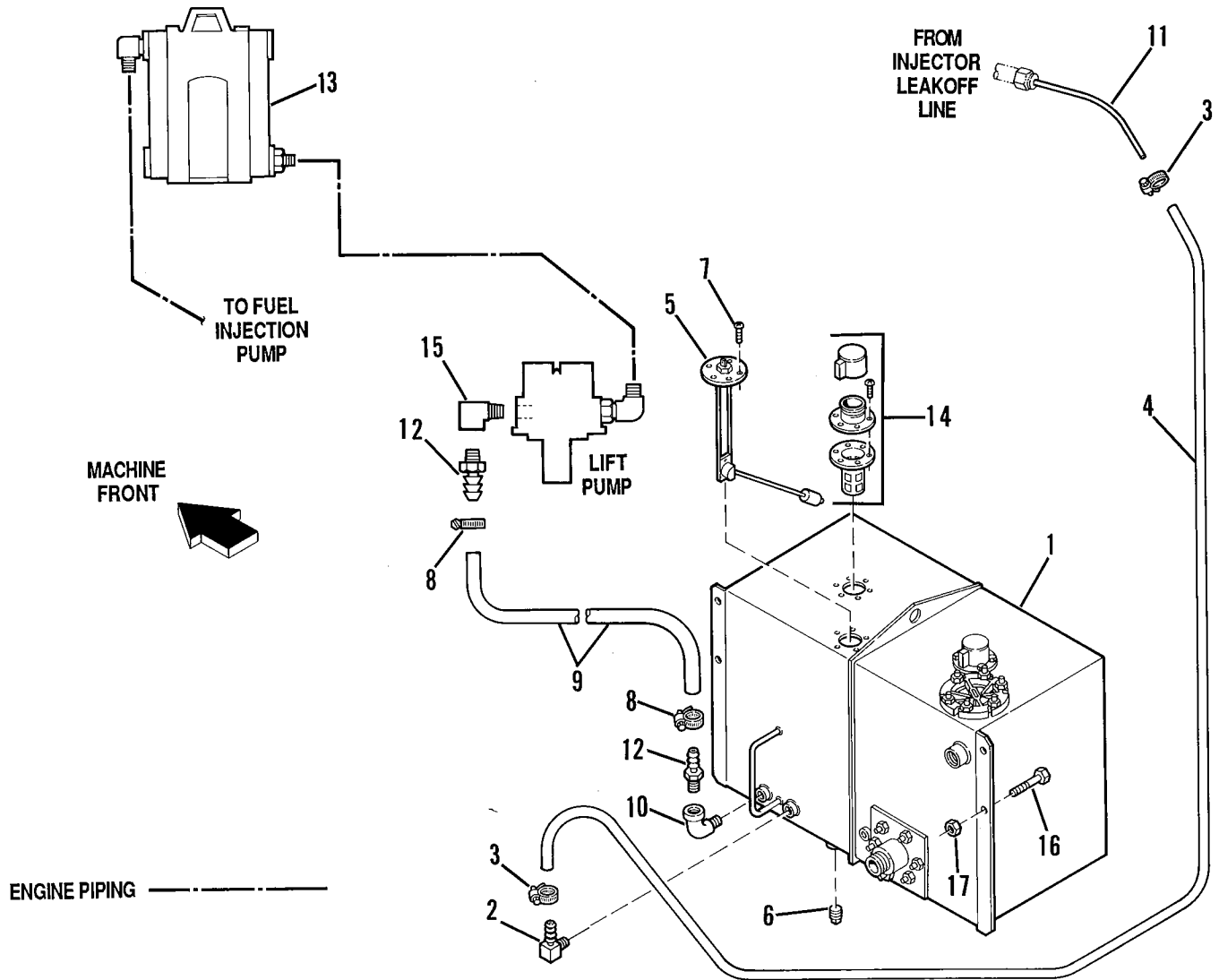


PB0500

FUEL SYSTEM (PERKINS)

Item No.	Part Number	Qty.	Description
1	7086664	1	Reservoir, Hydraulic/Fuel
2	8420227	1	Elbow, 90°, 1/4 NPT X 1/4 Hose
3	8405009	6	Clamp, Hose 5/8 Max. O.D.
4	8403219-1100	1	Hose, Fuel, 5/16 I.D. x 110.0
5	8403219-0200	1	Hose, Fuel, 5/16 I.D. x 20.0
6	7088792	1	Fuel Level Sender Assembly
7	8541409	1	Plug, Sq. Hd. 1/2 NPT
8	8303839	5	Screw, Pan Hd. #10 x 1/2
9	8403214-1350	1	Hose, Fuel, 1/4 I.D. x 135.0
10	8541207	1	Elbow, 90° Street, 1/4NPT
11	8420231	1	Coupling, 5/16 Hose x 1/4 NPT
12	7076711	2	Tube, Fuel Filter
13	8322022	1	Filler/Breather Assembly
14	7076721	1	Tube, Fuel Pump
15	8303681	2	Screw, Hex Hd Cap, 3/8-16 x 3/4
16	8307005	2	Lockwasher, 3/8
17	8274012	1	Fuel Pre-filter
18	8274209	3	Hex Bushing, 1/2-20 UNF x 5/16 tube
19	8274210	3	Sleeve, 5/16 tube
20	8030943	1	Fuel Filter Assembly (See Kits)
21	8303632	4	Screw, Hex Hd Cap, 5/8-11 x 2-1/2 Gr 5
22	8305643	4	Locknut, 5/8-11 ESNA
			<u>KITS</u>
23	8320243	1	Kit, Fuel Filter Element

FUEL SYSTEM (JOHN DEERE)

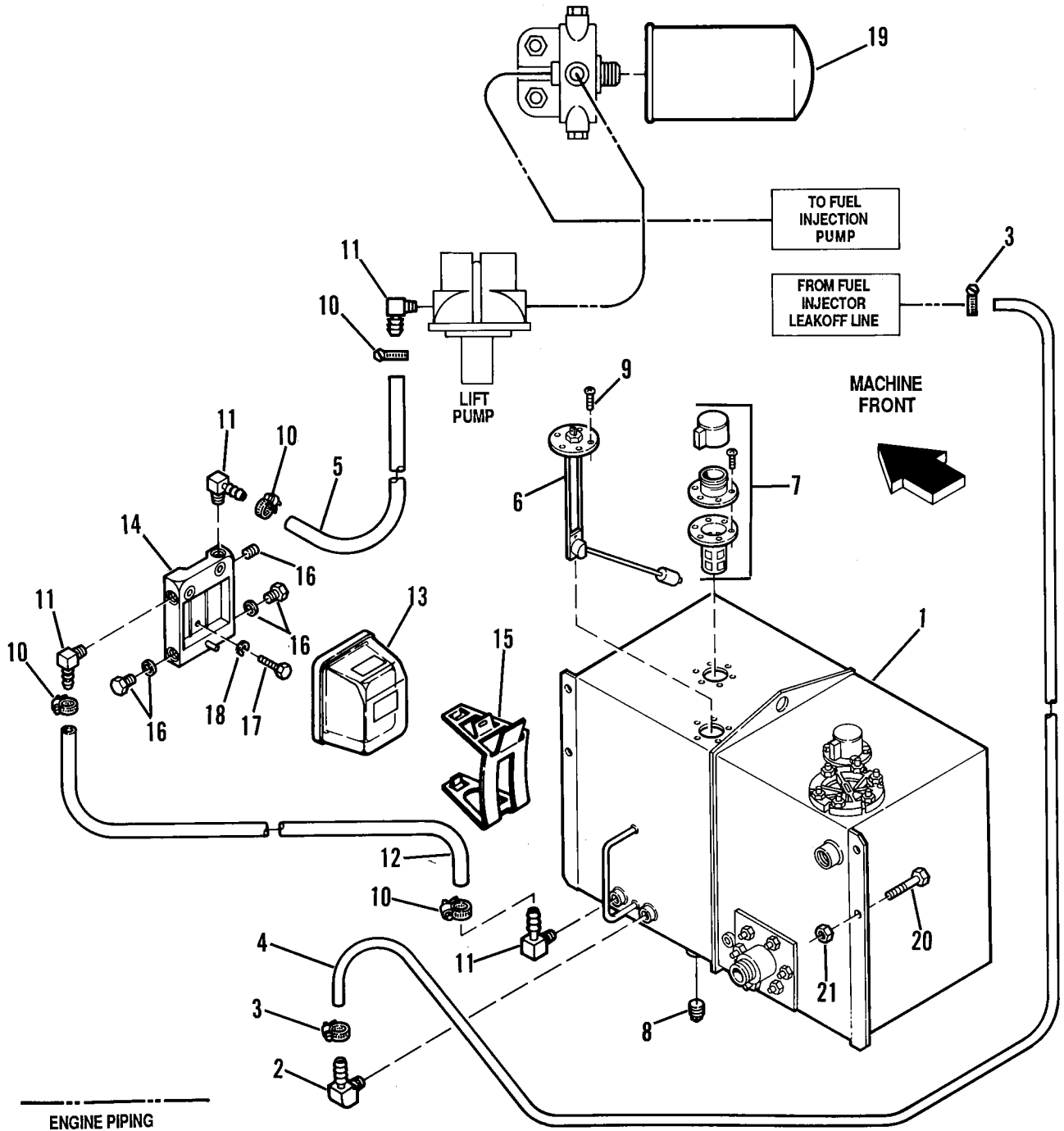


PB0510

FUEL SYSTEM (JOHN DEERE)

Item No.	Part Number	Qty.	Description
1	7086664	1	Reservoir, Hydraulic/Fuel
2	8420227	1	Elbow, 90°, 1/4 NPT x 1/4 Hose
3	8405009	2	Clamp, Hose 5/8 Max. O.D.
4	8403214-1590	1	Hose, Fuel, 1/4 I.D. x 159"
5	7088792	1	Fuel Level Sender Assembly
6	8541409	1	Plug, Sq. Hd., 1/2 NPT
7	8303839	5	Screw, Pan Hd. #10 x 1/2
8	8405006	2	Clamp, Hose 7/8" O.D.
9	8403220-1350	1	Hose, Fuel, 1/2 I.D. x 135"
10	8541207	1	Elbow, 90° Street, 1/4 NPT
11	7083661	1	Tube, Fuel Pipe
12	8420232	2	Coupling, 1/2 Hose x 1/4NPT
13	8320238	1	Element, Fuel Filter
14	8322022	1	Filler/Breather Assembly
15	8541260	1	Elbow, 90° Street, male 1/8 NPT x female 1/4 NPT
16	8303632	4	Screw, Hex. Hd. Cap, 5/8-11 x 2-1/2 Gr 5
17	8305643	4	Locknut, 5/8-11 ESNA

FUEL SYSTEM (DEUTZ)

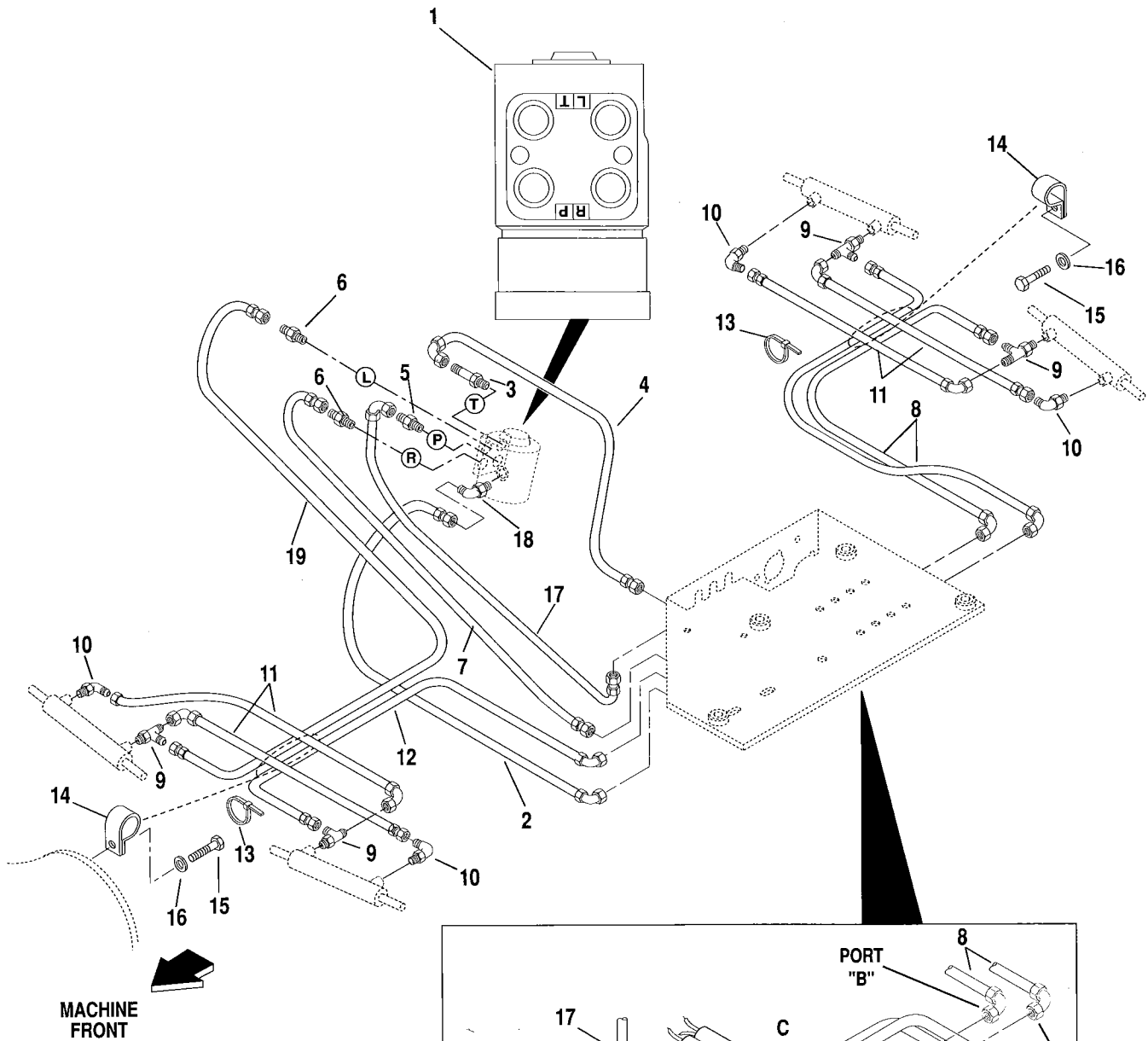


PB0520

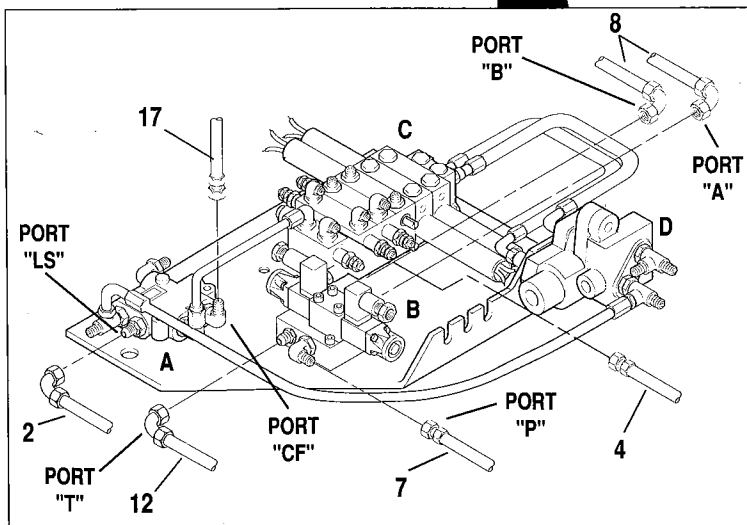
FUEL SYSTEM (DEUTZ)

Item No.	Part Number	Qty.	Description
1	7086664	1	Reservoir, Hydraulic/Fuel
2	8420227	1	Elbow, 90°, 1/4 NPT x 1/4 Hose
3	8405009	2	Clamp, Hose 5/8 Max. O.D.
4	8403214-1350	1	Hose, Fuel 1/4 x 135"
5	8403217-0380	1	Hose, Fuel 3/8 x 38"
6	7088792	1	Fuel Level Sender Assembly
7	8322022	1	Filler/Breather Assembly
8	8541409	1	Plug, Sq. Hd. 1 NPT
9	8303839	5	Screw, Pan Hd. #10 x 1/2
10	8405006	4	Clamp, Hose
11	8420229	4	Elbow, 90°, 1/4 NPT x 3/8 Hose
12	8403217-1120	1	Hose, Fuel 3/8 x 112"
13	8274013	1	Element, Water Separator
14	8274014	1	Base, Water Separator
15	8274015	1	Clamp, Water Separator
16	8274016	1	Plug Kit, Water Separator
17	8303697	2	Screw, Hex Hd Cap, 5/16-18 x 3/4
18	8307004	2	Lockwasher, 5/16
19	8320263	1	Element, Fuel Filter
20	8303632	4	Screw, Hex Hd Cap, 5/8-11 x 2-1/2 Gr 5
21	8305643	4	Locknut, 5/8-11 ESNA

POWER STEERING CIRCUIT



- A. PRIORITY VALVE
- B. STEER SELECT VALVE
- C. SECONDARY CONTROL VALVE
- D. ACCUMULATOR CHARGING VALVE



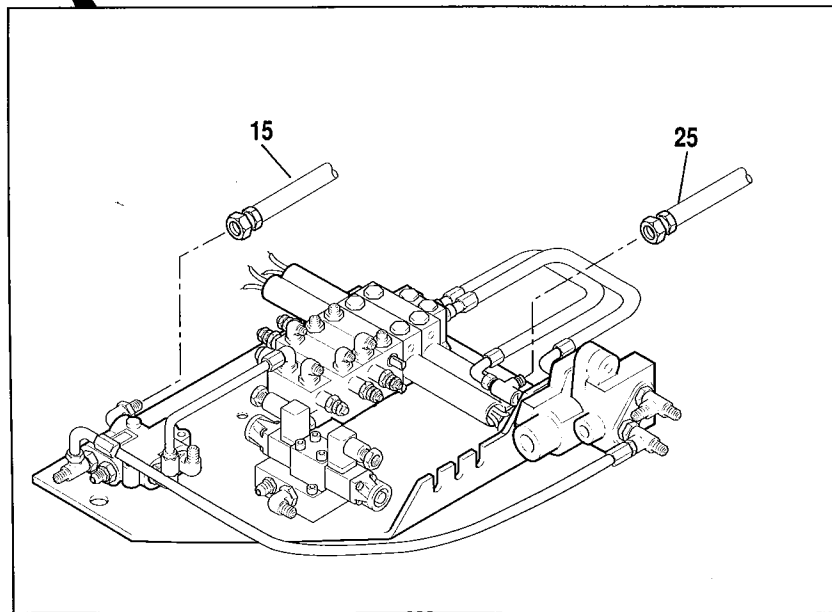
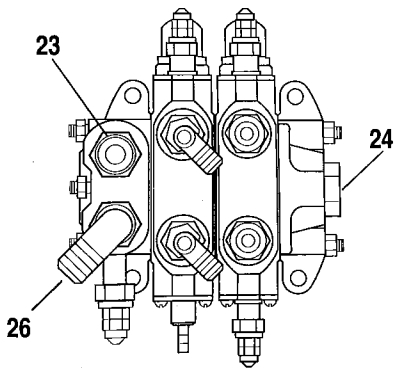
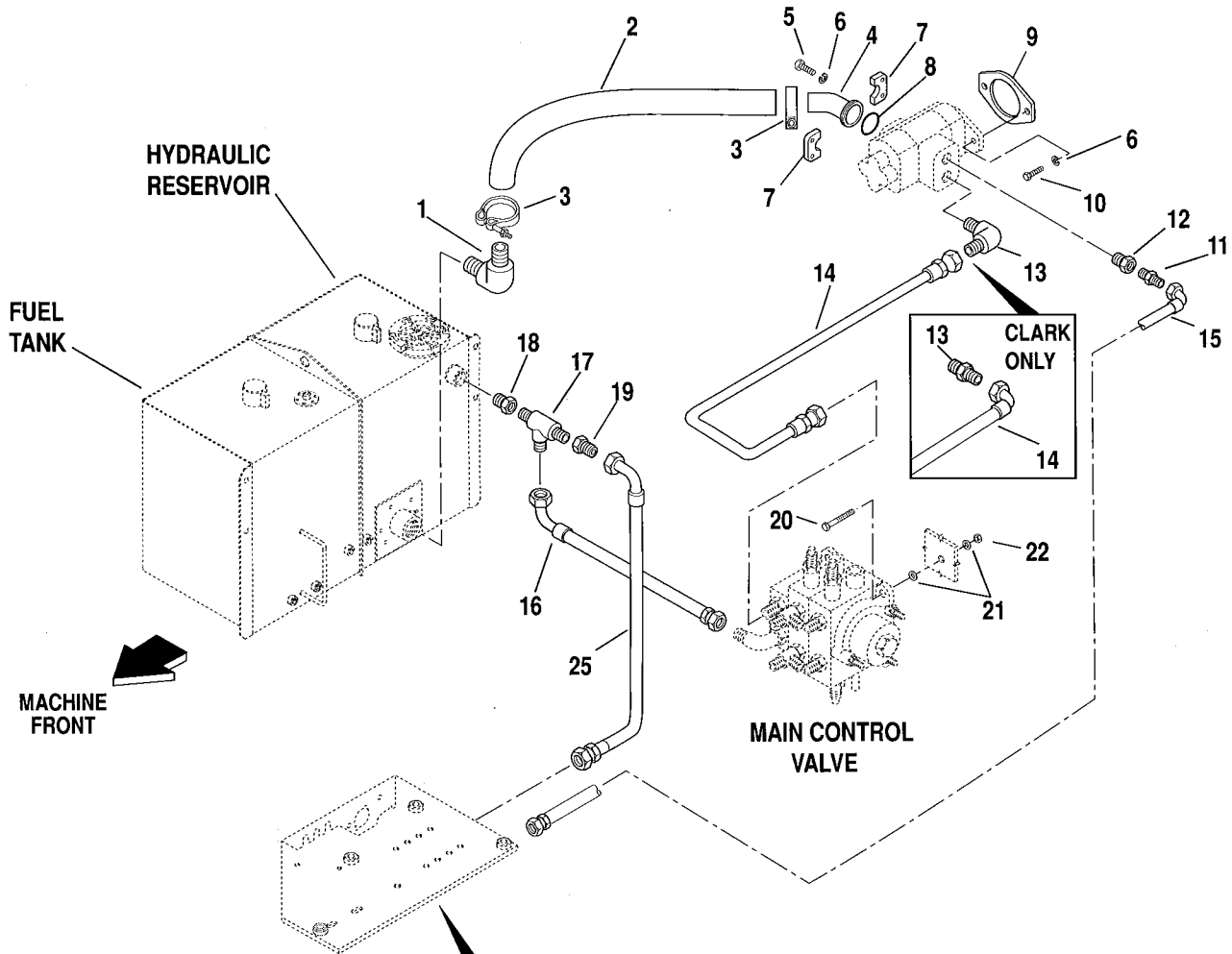
UNDERNEATH VIEW. SEE PAGE 5.8 FOR VALVE PLATE BREAKDOWN.

PB 0531

POWER STEERING CIRCUIT

Item No.	Part Number	Qty.	Description
1	8721022	1	Power Steering Unit
2	2712592	1	Hose Assembly, Priority Valve to Steering Valve
3	8760143	1	Connector, Long Straight, SAE 8-8, male JIC 37° x male str. thd. o-ring
4	2711962	1	Hose Assembly, Control Valve to Steering Valve
5	8760107	1	Connector , Straight, 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	1	Hose Assembly, Steer Select Valve to Steering Valve
8	2712142	2	Hose Assembly, Steer Select Valve to Rear Steering Cylinders
9	8760449	4	Tee, Run SAE 6-6, male JIC 37° x male str. thd. o-ring
10	8760311	4	Elbow, 90° SAE 6-6, male JIC 37° x male str. thd. o-ring
11	6604762	4	Hose Assembly, Steering Crossover
12	2712012	1	Hose Assembly, Steering Valve to Front L.H. Steering Cylinder
13	8584002	2	Tie Wrap
14	8406302	2	Support, Hose
15	8303264	2	Screw, Hex Hd Cap, 7/16-14 x 1-1/2 Gr 8
16	8307316	2	Washer, Flat 7/16 SAE
17	2712122	1	Hose Assembly, Priority Valve to Steering Valve
18	8760322	1	Elbow, 90°, SAE 4-4, male JIC 37° x male str. thd. o-ring
19	2712372	1	Hose Assembly, Steering Valve to Front R. H. Steering Cylinder

MAIN CONTROL VALVE CIRCUIT — CABLE CONTROLLED VALVE



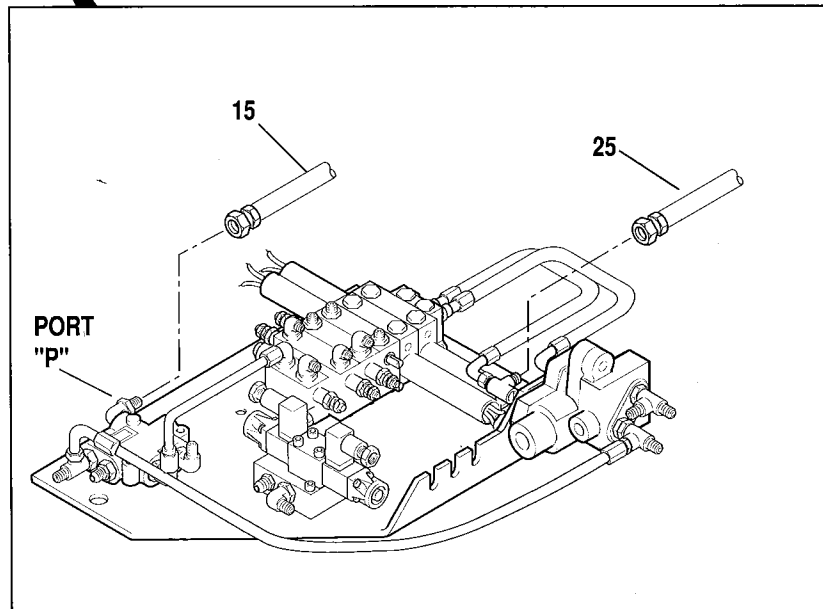
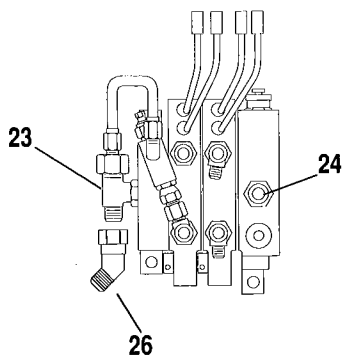
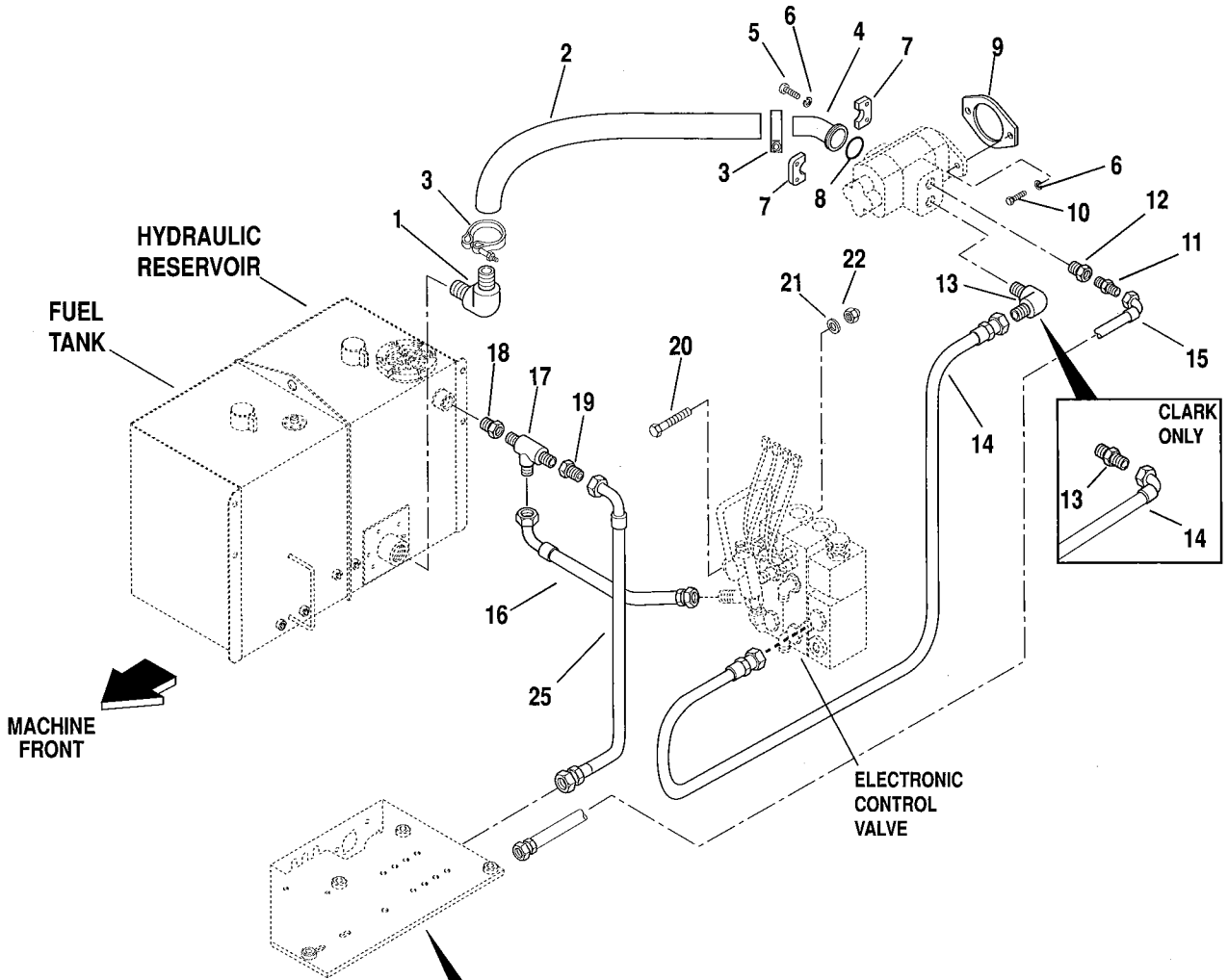
UNDERNEATH VIEW SEE PAGE 5.8
FOR VALVE PLATE BREAKDOWN

PB 0541

MAIN CONTROL VALVE CIRCUIT — CABLE CONTROLLED VALVE

Item No.	Part Number	Qty.	Description
1	8424234	1	Elbow, 2" NPT - 2" Hose I. D.
2	8401004-0180	1	Hose, Suction - 2" I. D. (Funk)
	8401004-0280	1	Hose, Suction - 2" I. D. (Clark)
3	8405209	2	Clamp, T-Bolt
4	8424233	1	Elbow, 90° - 2"
5	8303626	4	Screw, Hex Hd Cap, 1/2-13 x 1-1/2
6	8307007	6	Lockwasher, 1/2
7	8546407	2	Clamp Half 2"
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	8760107	1	Connector, Straight, SAE8-8, male JIC 37° x male str. thd. o-ring
12	8769545	1	Reducer, SAE 16-8, male str. thd. o-ring x female internal o-ring boss
13	8760102	1	Connector, Straight, SAE 16-16, male JIC 37° x male str. thd. o-ring (Clark)
	8760309	1	Elbow, 90°, SAE 16-16, male JIC 37° x male str. thd. o-ring (Funk)
14	2712282	1	Hose Assembly, Pump to Main Control Valve (Funk)
	6604592	1	Hose Assembly, Pump to Main Control Valve (Clark)
15	2711872	1	Hose Assembly, Priority Valve to Pump (Funk)
	6605062	1	Hose Assembly, Priority Valve to Pump (Clark)
16	2712402	1	Hose Assembly, Main Control Valve to Tank
17	8760553	1	Tee, Run, SAE 16-16P, male JIC 37° x male NPT
18	8540048	1	Bushing, Hex , SAE 20P-16P, male NPT x female NPT
19	8760533	1	Reducer , SAE 16-8, female JIC 37° x male JIC 37°
20	8303713	3	Screw, Hex Hd Cap, 1/2-13 x 2-1/4 Lg Gr 5
21	8307112	6	Washer, Flat 1/2
22	8305644	3	Nut, Hex Lock, 1/2-13
23	8760106	1	Connector , Straight, SAE 12-16, male JIC 37° x male str. thd. o-ring
24	8760446	1	Plug, SAE16
25	2712122	1	Hose Assembly, Acc. Chg. Valve to Tank
26	8760327	1	Elbow , 90°, SAE 16-12, male JIC 37° x male str. thd. o-ring

MAIN CONTROL VALVE CIRCUIT — ELECTRONIC CONTROL VALVE



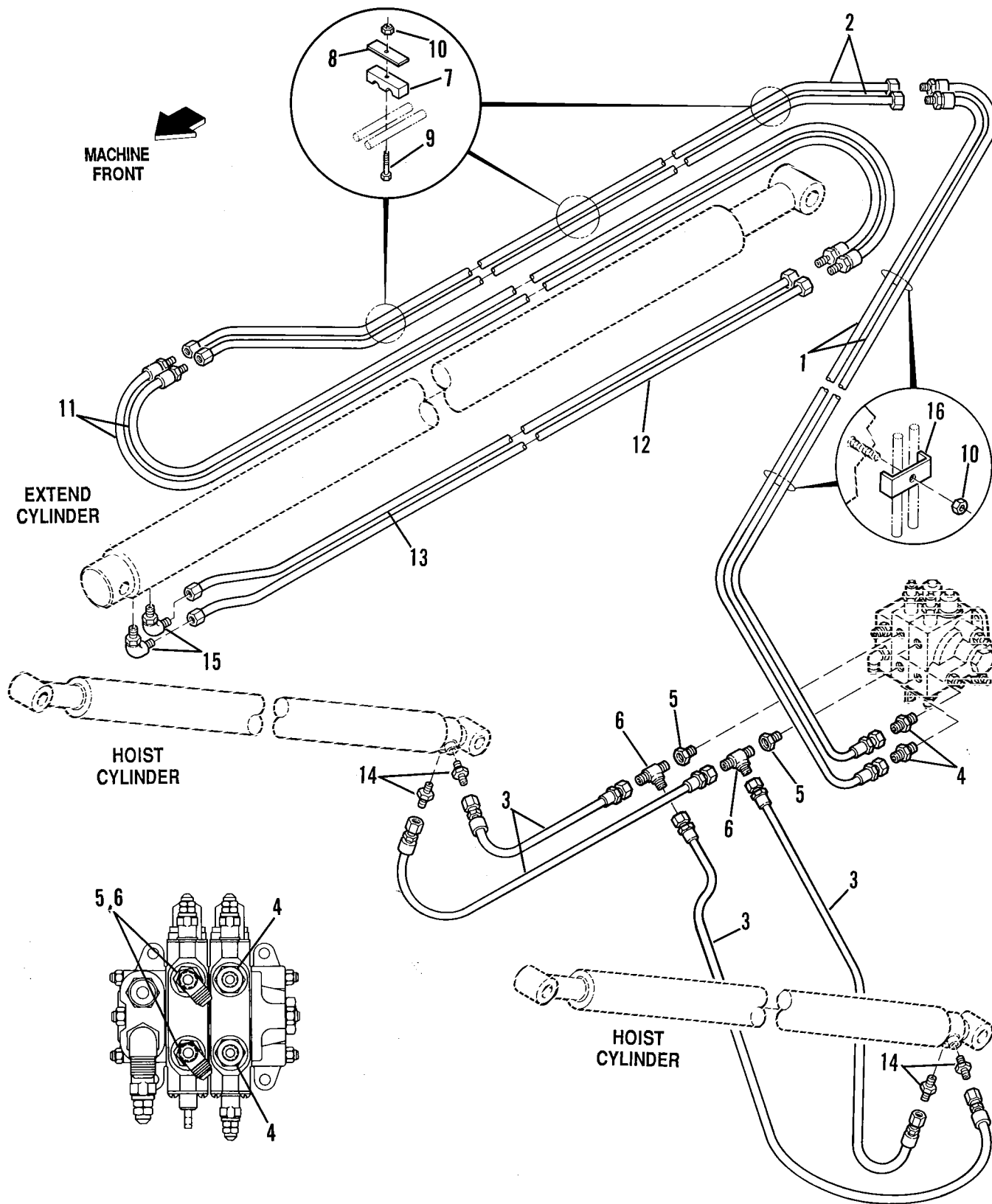
UNDERNEATH VIEW SEE PAGE 5.8
FOR VALVE PLATE BREAKDOWN

PB 0551

MAIN CONTROL VALVE CIRCUIT — ELECTRONIC CONTROL VALVE

Item No.	Part Number	Qty.	Description
1	8424234	1	Elbow, 2" NPT - 2" Hose I. D.
2	8401004-0180	1	Hose, Suction - 2" I. D. (Funk)
	8401004-0280	1	Hose, Suction - 2" I. D. (Clark)
3	8405209	2	Clamp, T-Bolt
4	8424233	1	Elbow, 90° - 2"
5	8303626	4	Screw, Hex Hd Cap, 1/2-13 x 1-1/2"
6	8307007	6	Lockwasher, 1/2"
7	8546407	2	Clamp Half 2"
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	8760107	1	Connector, Straight, SAE 8-8, male JIC 37° x male str. thd. o-ring
12	8760545	1	Reducer, SAE 16-8, male str. thd. o-ring x female internal o-ring boss
13	8760102	1	Connector, Straight, SAE 16-16, male JIC 37° x male str. thd. o-ring (Clark)
	8760309	1	Elbow, 90°, SAE 16-16, male JIC 37° x male str. thd. o-ring (Funk)
14	2712282	1	Hose Assembly, Pump to Main Control Valve (Funk)
	6604592	1	Hose Assembly, Pump to Main Control Valve (Clark)
15	2711872	1	Hose Assembly, Priority Valve to Pump (Funk)
	6605062	1	Hose Assembly, Priority Valve to Pump (Clark)
16	2712402	1	Hose Assembly, Main Control Valve to Tank
17	8760553	1	Tee, Run, SAE 16-16P, male JIC 37° x male NPT
18	8540048	1	Bushing, Hex , SAE 20P-16P, male NPT x female NPT
19	8760533	1	Reducer, SAE 16-8, female JIC 37° x male JIC 37°
20	8303713	3	Screw, Hex Hd Cap, 1/2-13 x 2-1/4 Lg Gr 5
21	8307112	3	Washer, Flat 1/2
22	8305644	3	Nut, Hex Lock, 1/2-13
23	8760552	1	Tee, Branch, SAE 16-16, male JIC 37° x male str. thd. o-ring
24	8760102	1	Connector, Straight, SAE 16-16, male JIC 37° x male str. thd. o-ring
25	2712122	1	Hose Assembly, Acc. Chg. Valve to Tank
26	8760273	1	Elbow, 45°, SAE 16-16, male JIC 37° x female JIC 37° swivel

BOOM RAISE/LOWER AND EXTEND/RETRACT CIRCUITS (CABLE CONTROLLED VALVE)

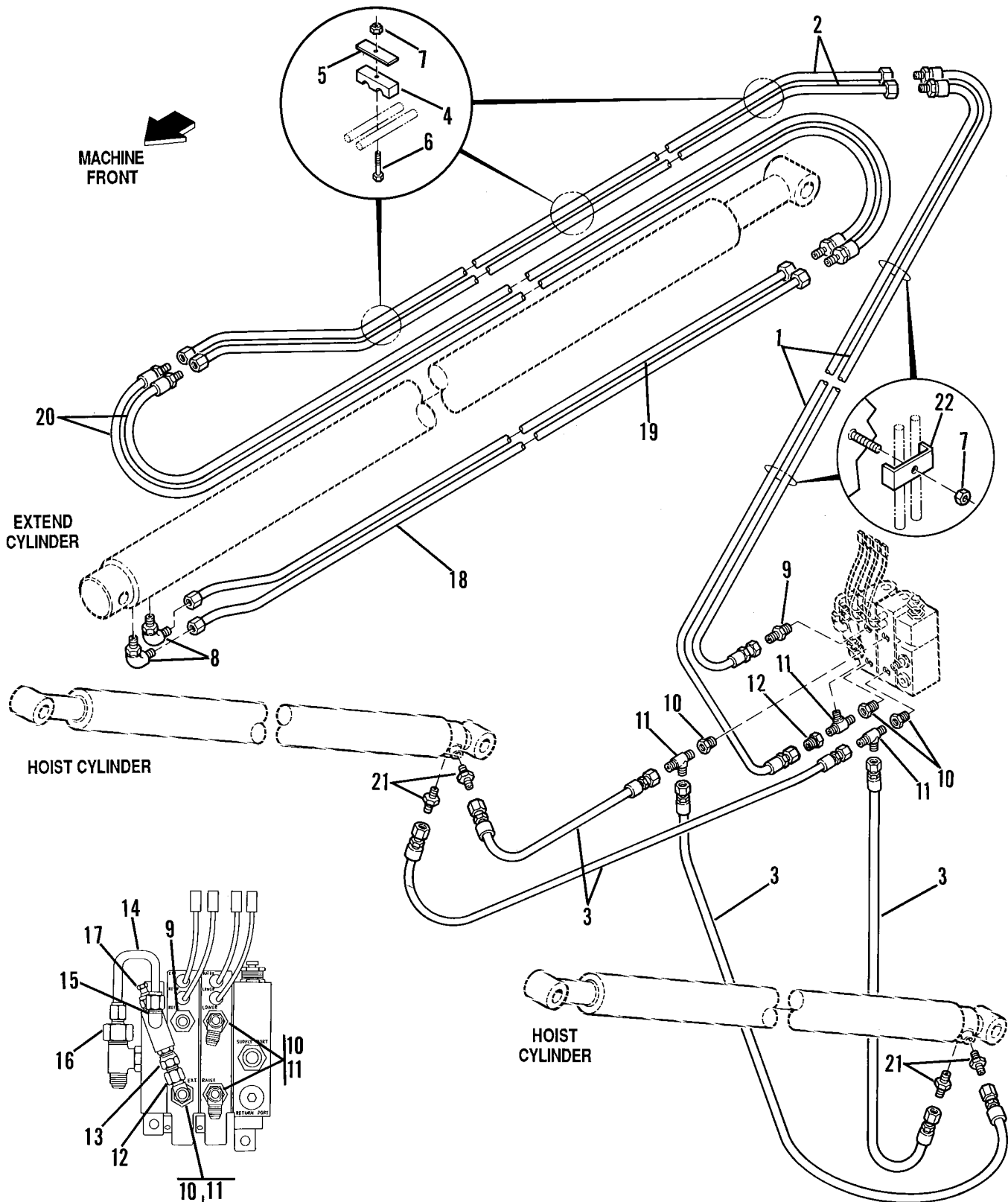


PB0561

BOOM RAISE/LOWER AND EXTEND/RETRACT CIRCUITS (CABLE CONTROLLED VALVE)

Item No.	Part Number	Qty.	Description
1	2712192	2	Hose Assembly, Control Valve to Boom Tubes
2	7065253	2	Tube Assembly
3	2711242	4	Hose Assembly, Hoist Cylinders
4	8760111	2	Connector, Straight, SAE 8-12, male JIC 37° x male str. thd. o-ring
5	8760550	2	Reducer, SAE 12-10, male str. thd. o-ring x female internal o-ring boss
6	8760481	2	Tee, Run, SAE 10-10, male str. thd. o-ring x male JIC 37°
7	8769122	3	Clamp Set 5/8 Tube
8	8769123	3	Plate, Cover
9	8303746	1	Screw, Hex Hd Cap, 5/16-18 x 1-3/4
10	8305626	5	Locknut, 5/16-18
11	2712232	2	Hose Assembly, Extend Cylinder
12	7079152	1	Tube Assembly
13	7079142	1	Tube Assembly
14	8760115	4	Connector, Straight, SAE 10-10, male JIC 37° x male str. thd. o-ring
15	8760304	2	Elbow, 90°, SAE 10-10, male JIC 37° x male str. thd. o-ring
16	7065632	2	Clamp

BOOM RAISE/LOWER AND EXTEND/RETRACT CIRCUITS (ELECTRONIC CONTROLLED VALVE)

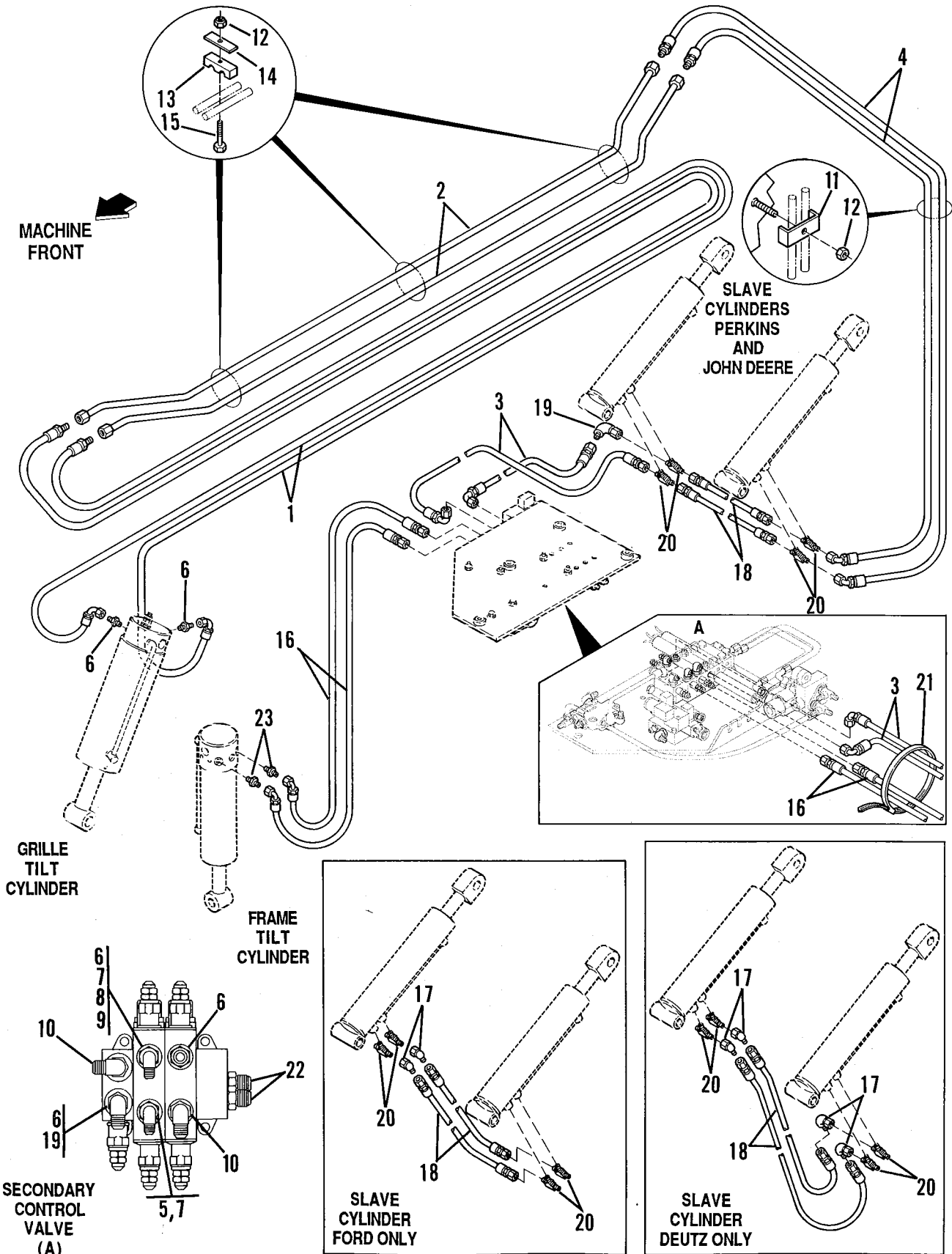


PB0570

BOOM RAISE/LOWER AND EXTEND/RETRACT CIRCUITS (ELECTRONIC CONTROLLED VALVE)

Item No.	Part Number	Qty.	Description
1	2712192	2	Hose Assembly, Control Valve to Boom Tubes
2	7065253	2	Tube Assembly
3	2711242	4	Hose Assembly, Hoist Cylinders
4	8769122	3	Clamp Set 5/8 Tube
5	8769123	3	Plate, Cover
6	8303746	1	Screw, Hex Hd Cap, 5/16-18 x 1-3/4
7	8305626	5	Locknut, 5/16-18
8	8760304	2	Elbow, 90°, SAE 10-10, male JIC 37° x male str. thd. o-ring
9	8760111	1	Connector, Straight, SAE 8-12, male JIC 37° x male str. thd. o-ring
10	8760550	3	Reducer, SAE 12-10, male str. thd. o-ring x female internal o-ring base
11	8760481	3	Tee, Run, SAE 10-10, male str. thd. o-ring x male JIC 37°
12	8760486	2	Reducer, SAE 10-8, female JIC 37° x male JIC 37°
13	8760142	1	Connector, Straight, SAE 8-8, female JIC 37° swivel x male str. thd. o-ring
14	7089292	1	Tube Assembly, 1/2 O. D.
15	8760303	1	Elbow, 90°, SAE 8-8, male JIC 37° x male str. thd. o-ring
16	8760533	1	Reducer, SAE 16-8, female JIC 37° x male JIC 37°
17	8902655	1	Valve, Relief - Set at 2850 psi
18	7079152	1	Tube Assembly
19	7079142	1	Tube Assembly
20	2712232	2	Hose Assembly, Extend Cylinder
21	8760115	4	Connector, Straight, SAE 10-10, male JIC 37° x male str. thd. o-ring
22	7065632	2	Clamp

GRILLE TILT, SLAVE AND FRAME TILT CIRCUITS

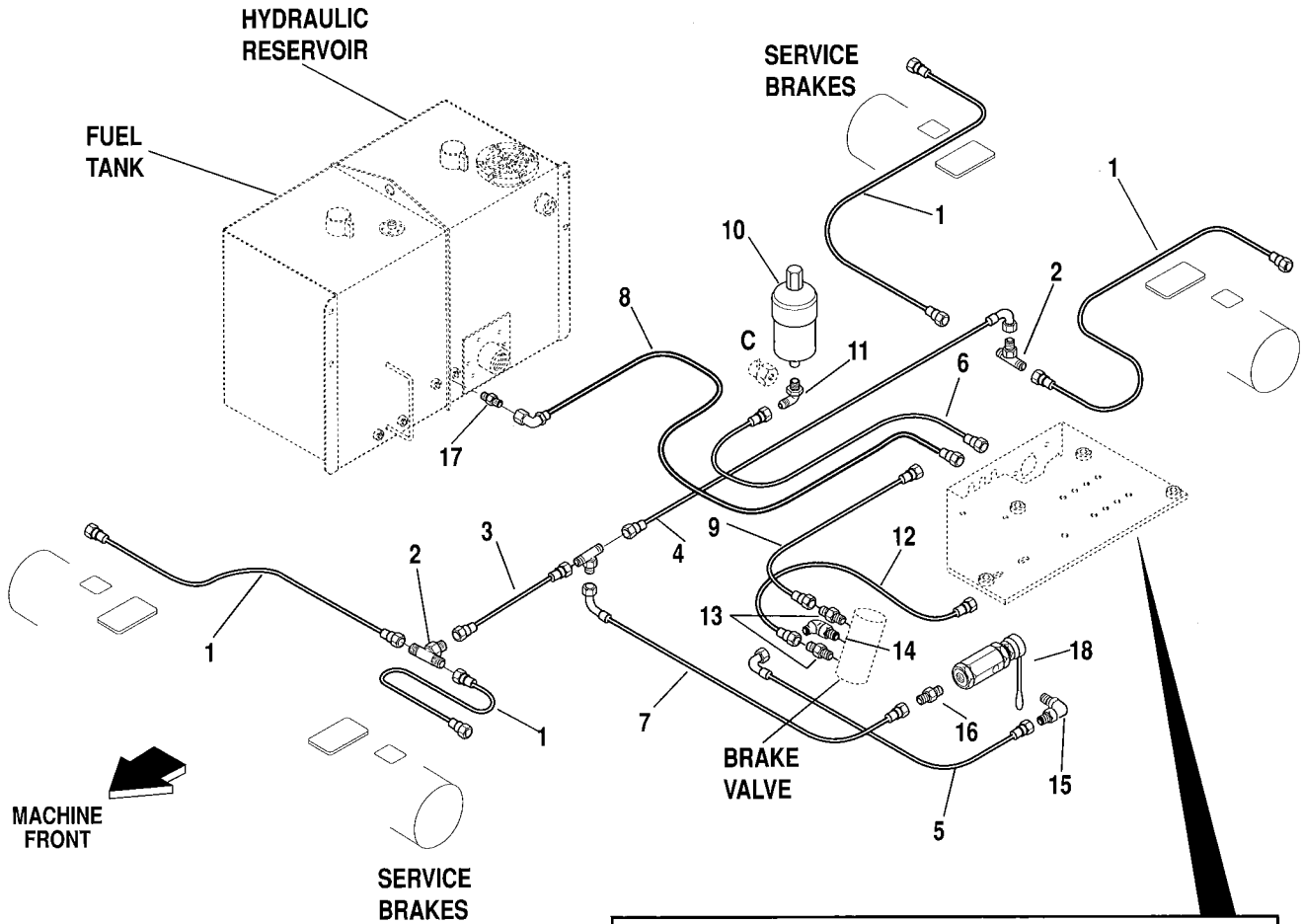


PB0580

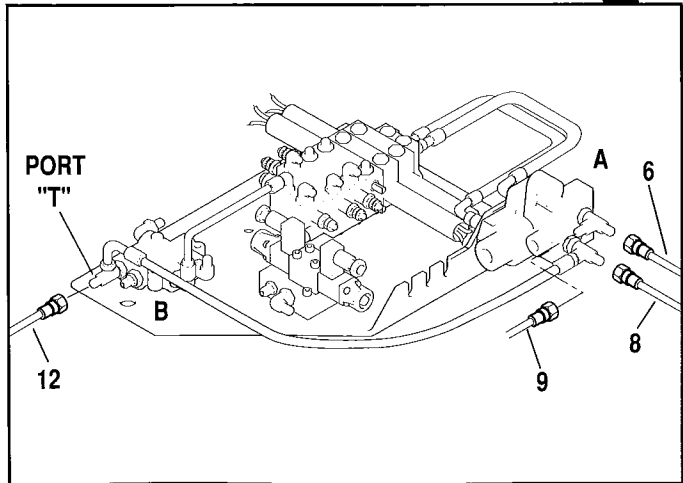
GRILLE TILT, SLAVE AND FRAME TILT CIRCUITS

Item No.	Part Number	Qty.	Description
1	2712242	2	Hose Assembly, Fork Tilt Cylinder to Boom Tubes
2	7065243	2	Tube Assembly
3	2712582	2	Hose Assembly, Control Valve to Slave Cylinder
4	2712552	2	Hose Assembly, Slave Cylinder to Boom Tubes
5	8760110	1	Connector, Straight, SAE 6-8, male JIC 37° x male str. thd. o-ring
6	8760107	5	Connector, Straight, SAE 8-8, male JIC 37° x male str. thd. o-ring
7	8760268	2	Elbow, 90°, SAE 6-6, male JIC 37° x female str. thd. swivel
8	8760458	1	Reducer, SAE 8-6, male JIC 37° x tube end JIC 37°
9	8760407	1	Nut, SAE 8
10	8760303	2	Elbow, 90°, SAE 8-8, male JIC 37° x male str. thd. o-ring
11	7065632	1	Clamp
12	8305626	4	Locknut, 5/16-18
13	8769122	3	Clamp Set, 5/8 (twin tube)
14	8769123	3	Plate, Clamp Top
15	8303746	1	Screw, Hex Hd Cap, 5/16-18 x 1-3/4
16	6604962	2	Hose Assembly, Control Valve to Frame Tilt Cylinder
17	8765205	4	Elbow, 45°, SAE 8-8, male JIC 37° x female JIC 37° swivel (Deutz Only)
	8765205	2	Elbow, 45°, SAE 8-8, male JIC 37° x female JIC 37° swivel (Ford Only)
18	2710632	2	Hose Assembly, 1/2 I.D. x 20"
19	8765204	2	Elbow, 90°, SAE 8-8, male JIC 37° x female JIC 37° swivel
20	8760479	4	Tee, Branch, SAE 8-8, male JIC 37° x male str. thd. o-ring
21	8584002	1	Tie Wrap
22	8760108	2	Connector, Straight, SAE 8-10, male JIC 37° x male str. thd o-ring
23	8760134	2	Connector, Straight, SAE 6-4, male JIC 37° x male str. thd. o-ring

BRAKE CIRCUIT



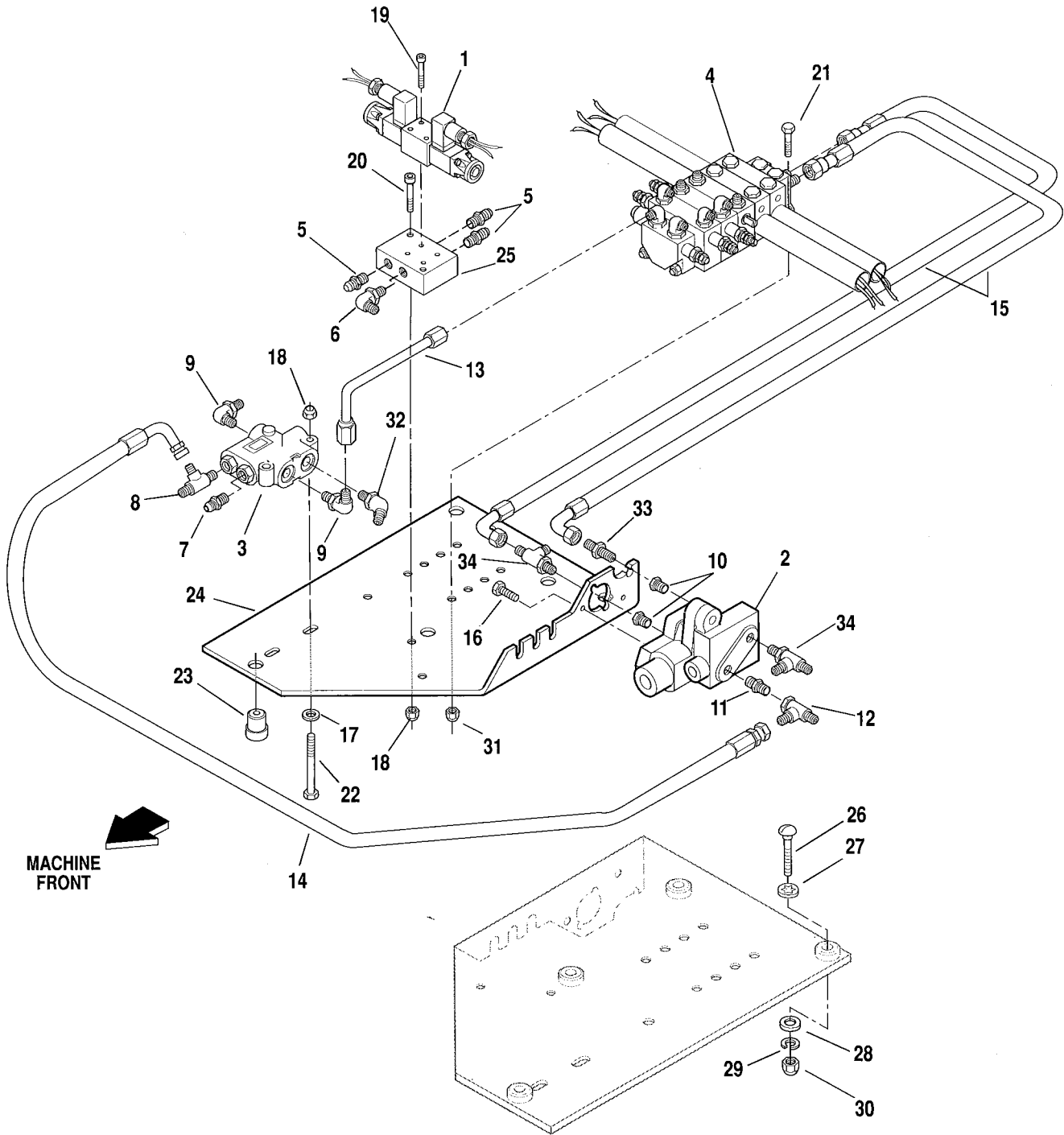
- A. ACCUMULATOR CHARGING VALVE
- B. PRIORITY VALVE
- C. BRAKE VALVE PRESSURE SWITCH



BRAKE CIRCUIT

Item No.	Part Number	Qty.	Description
1	2711052	4	Hose Assembly, Tee to Brakes
2	8760455	3	Tee, Branch, bulkhead, SAE 6-6, male JIC 37° x male JIC 37°
3	2701662	1	Hose Assembly, Tee to Front Brake Tee
4	6605772	1	Hose Assembly, Tee to Rear Brake Tee
5	6605652	1	Hose Assembly, Brake Valve to Brake Lock
6	2712382	1	Hose Assembly, Acc Chg Valve to Accumulator
7	2712362	1	Hose Assembly, Brake Lock to Tee
8	6604762	1	Hose Assembly, Acc Chg Valve to Tank
9	2712182	1	Hose Assembly, Brake Valve to Acc Chg Valve
10	8742005	1	Accumulator
11	7089581	1	Elbow, 90° Special
12	2712332	1	Hose Assembly, Priority Valve to Brake Valve
13	8760110	2	Connector, Straight, SAE 6-8, male JIC 37° x male str. thd. o-ring
14	8760313	1	Elbow, 90°, SAE 6-8, male JIC 37° x male str. thd. o-ring
15	8760289	1	Elbow, 90°, SAE 6-2P, male JIC 37° x male NPT
16	8760057	1	Connector, Straight, SAE 6-2P, male JIC 37° x male NPT
17	8760036	1	Connector, Straight, SAE 6-8P, male JIC 37° x male NPT
18	8902645	1	Valve, Brake Lock (See Kits)
			<u>KITS</u>
	8902647	1	Seal Kit, Brake Lock Valve

VALVE PLATE ASSEMBLY

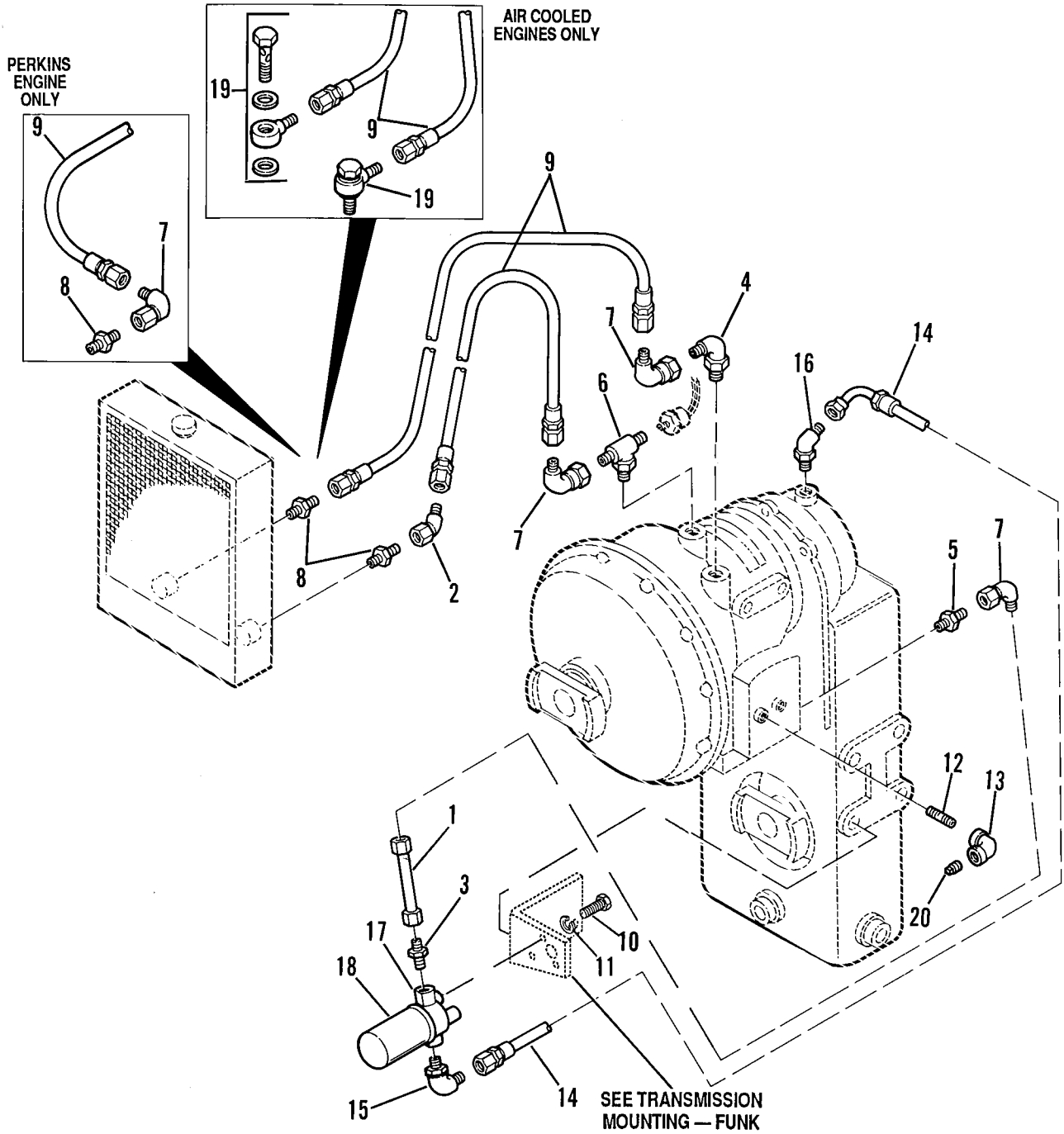


PB 0601

VALVE PLATE ASSEMBLY

Item No.	Part Number	Qty.	Description
1	8902109	1	Valve, Steering Select
2	8902229	1	Valve, Accumulator Charging
3	8902227	1	Valve, Priority
4	8902126	1	Valve, Control, Frame-Fork Tilt
	7089453	1	Valve, Control, Frame- Fork Tilt/ Auxiliary Hydraulics
	8902128	1	Valve, Frame/ Fork Tilt/ Outriggers
	8902127	1	Valve, Frame/Fork Tilt /Aux Hyd/Outriggers (Shown)
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	1	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	8760545	2	Reducer, SAE 16-8, male str. thd. o-ring x female internal o-ring boss
11	8760117	2	Connector, Straight, SAE 6-6, male JIC 37° x male str. thd. o-ring
12	8760501	1	Tee, Run, SAE 6-6, male JIC 37° x female JIC 37° swivel
13	7088692	1	Tube Assembly (S/N 9A0550 thru 0A0661)
	7091592	1	Tube Assembly (S/N 0A0662 and After)
14	2712292	1	Hose Assembly
15	6604982	2	Hose Assembly
16	8304660	2	Screw, Hex Hd Cap, 3/8-16 x 3/4
17	8307106	2	Washer, Flat, 5/16
18	8305626	4	Locknut, 5/16-18
19	8304631	4	Screw, Skt. Hd Cap, #10-24 x 2
20	8304608	2	Screw, Skt. Hd Cap, 5/16-18 x 1-1/2
21	8303621	3	Screw, Hex Hd Cap, 3/8-16 x 1-1/4
22	8303757	2	Screw, Hex Hd Cap, 5/16-18 x 2-1/2
23	8278008	4	Mount, Rubber
24	7086553	1	Plate, Valve Mounting
25	8902111	1	Body, Steer Select Valve
26	8304042	4	Bolt, Carriage, 3/8-16 x 2
27	8310070	4	Retainer, Bolt 3/8
28	8307204	4	Washer, Flat, 3/8
29	8307005	4	Lockwasher, 3/8
30	8305008	4	Nut, Hex, 3/8-16
31	8305645	3	Locknut
32	8760307	1	Elbow, 45°, SAE 8-8, male JIC 37° x male str. thd. o-ring
33	8760107	1	Connector, Straight, SAE 8-8, male JIC 37° x male str. thd. o-ring
34	8760510	2	Tee, Run, SAE 8-8, male JIC 37° x male str. thd. o-ring

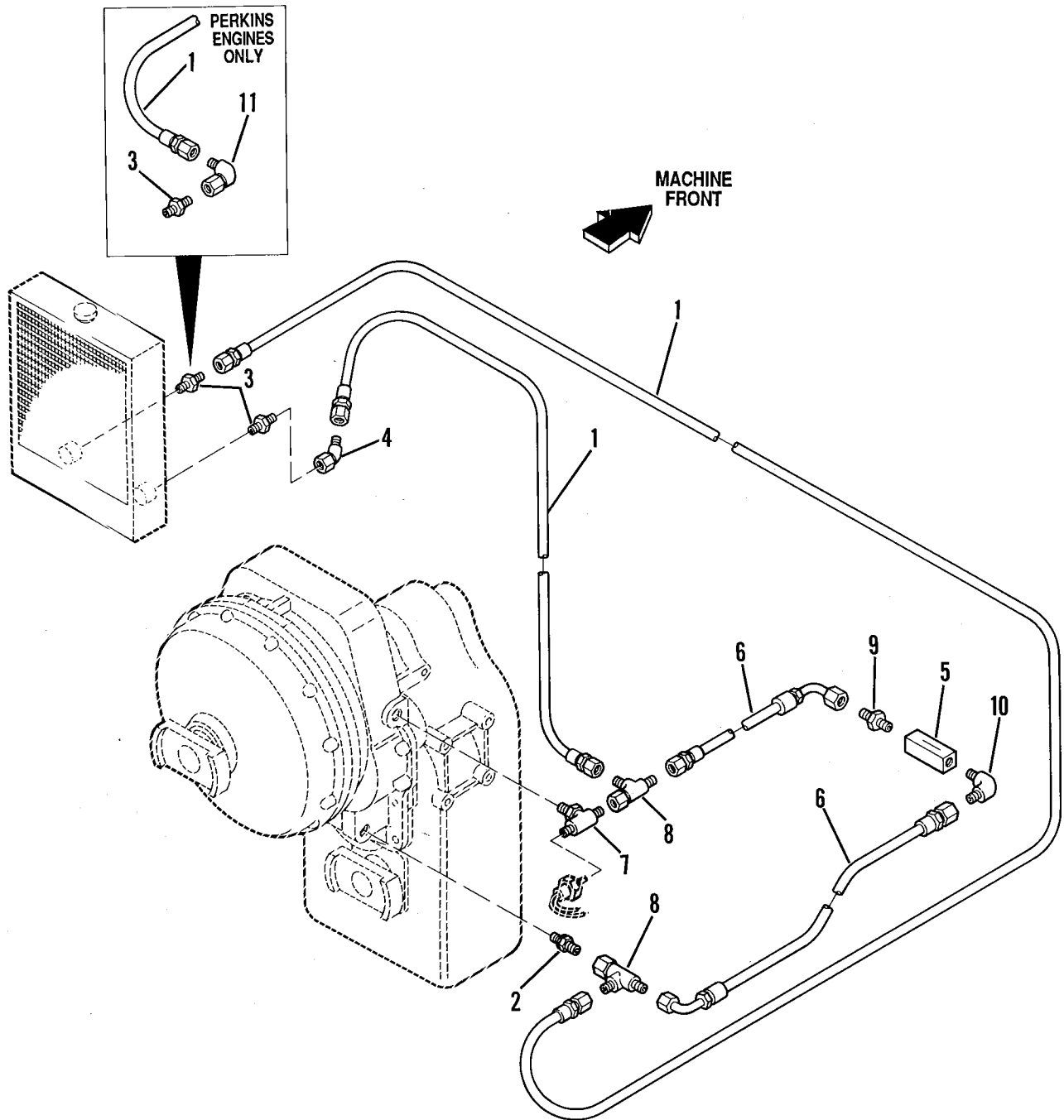
TRANSMISSION COOLING (FUNK)



TRANSMISSION COOLING (FUNK)

Item No.	Part Number	Qty.	Description
1	7089472	1	Tube
2	8760286	1	Elbow, 45°, SAE 12-12, male JIC 37° x female JIC 37° swivel (Water Cooled Engines Only)
3	8760118	1	Connector, Straight, SAE 12-16, male JIC 37° x male str. thd. o-ring
4	8760305	1	Elbow, 90°, SAE 12-12, male JIC 37° x male str. thd. o-ring
5	8760109	1	Connector, Straight, SAE 12-12, male JIC 37° x male str. thd. o-ring
6	7089881	1	Tee, Special
7	8760254	3	Elbow, 90°, SAE 12-12, male JIC 37° x female JIC 37° swivel (4 Req'd. on Perkins Engines)
8	8760001	2	Connector, Straight, SAE 12-12P, male JIC 37° x male NPT (Water Cooled Engines Only)
9	2711042	2	Hose Assembly
10	8303670	3	Screw, Hex Hd Cap 5/16NC x 1
11	8307004	3	Lockwasher 5/16
12	8551009	1	Nipple, 1/8 NPT x 1-1/2
13	8541201	1	Elbow, 90° pipe, 1/8NPT
14	2710952	1	Hose Assembly
15	8760325	1	Elbow, 90°, SAE 12-16, male JIC 37° x male str. thd. o-ring
16	8760317	1	Elbow, 45°, SAE 12-12, male JIC 37° x male str. thd. o-ring
17	8320236	1	Head, Filter
18	8320237	1	Element, Filter
19	7074972	2	Adapter (Includes sealing rings & hollow screw) (Air Cooled Engines Only)
20	8541401	1	Plug, 1/8 NPT

TRANSMISSION COOLING —CLARK (WATER COOLED ENGINES)

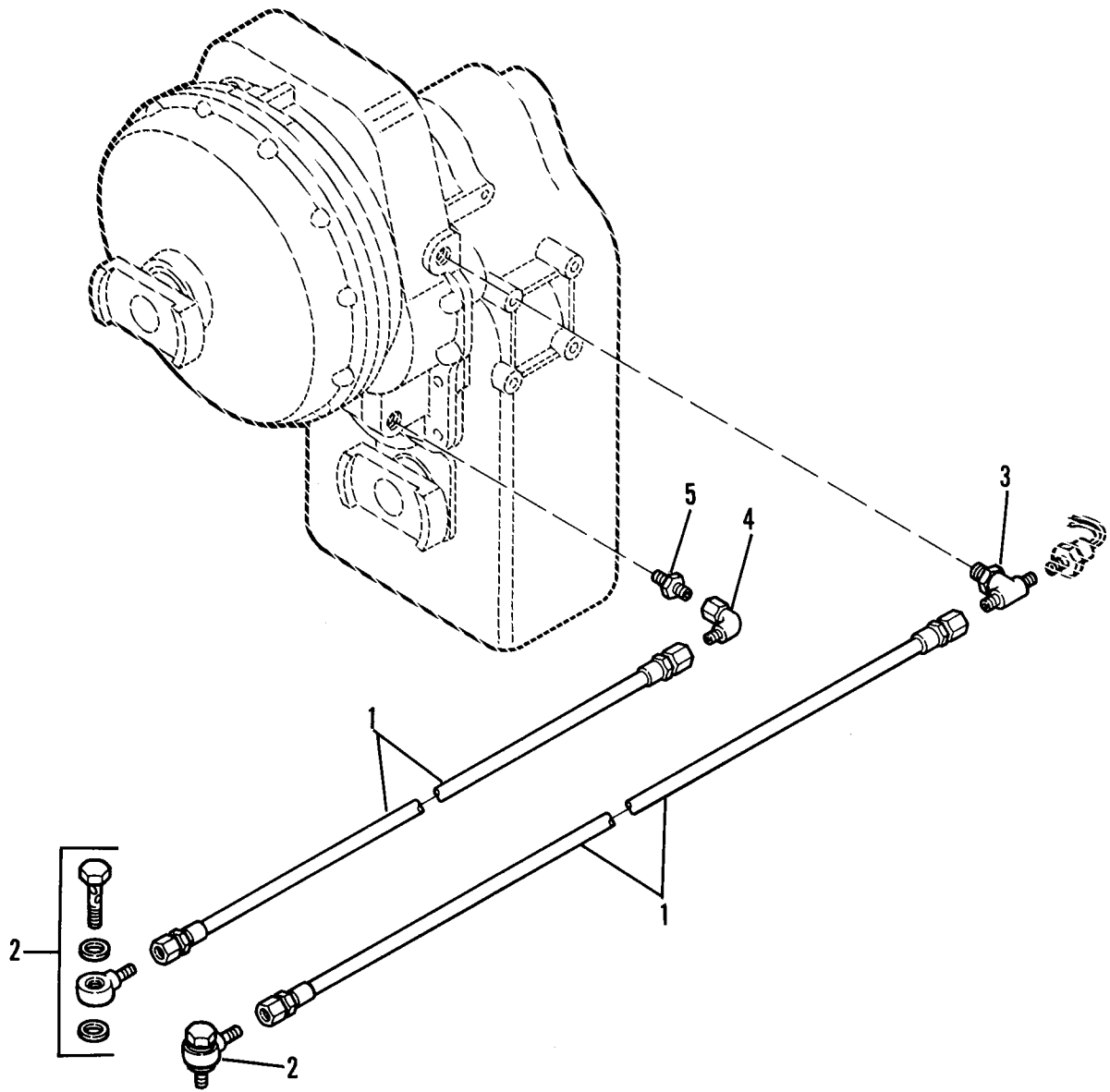


PB0620

TRANSMISSION COOLING —CLARK (WATER COOLED ENGINES)

Item No.	Part Number	Qty.	Description
1	2711042	2	Hose Assembly
2	8760109	1	Connector, Straight, SAE 12-12, male JIC 37° x male str. thd. o-ring
3	8760001	2	Connector, Straight, SAE 12-12P, male JIC 37° x male NPT
4	8760286	1	Elbow, 45°, SAE 12-12, male JIC 37° x female JIC 37° swivel
5	8902653	1	Valve, Relief (40 PSI)
6	2711802	2	Hose Assembly
7	7089881	1	Tee, Special
8	8760482	2	Tee, Run, SAE 12-12, male JIC 37° x female JIC 37° swivel
9	8760020	1	Connector, Straight, SAE 12-8P, male JIC 37° x male NPT
10	8760229	1	Elbow, 90°, SAE 12-8P, male JIC 37° x male NPT
11	8760254	1	Elbow, 90°, SAE 12-12, male JIC 37° x female JIC 37° swivel (Perkins Eng. Only)

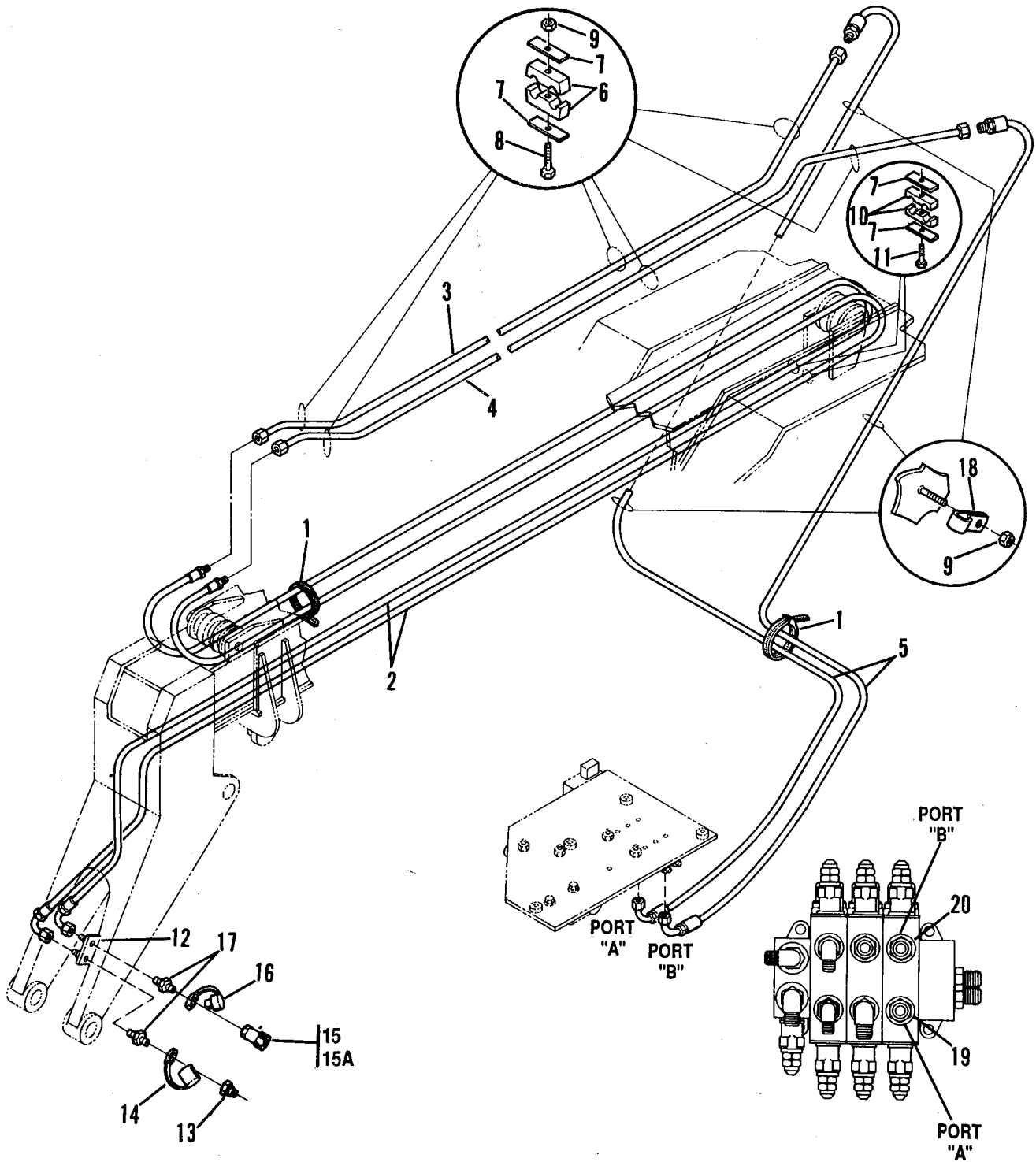
TRANSMISSION COOLING — CLARK (AIR COOLED ENGINES)



PB0630

Item No.	Part Number	Qty.	Description
1	2711042	2	Hose Assembly
2	7074972	2	Adaptor (Includes sealing rings & hollow screw)
3	7089881	1	Tee, Special
4	8760254	1	Elbow, 90°, SAE 12-12, male JIC 37° x female JIC 37° swivel
5	8760109	1	Connector, Straight, SAE 12-12, male JIC 37° x male str. thd. o-ring

AUXILIARY HYDRAULIC CIRCUIT — OPTIONAL

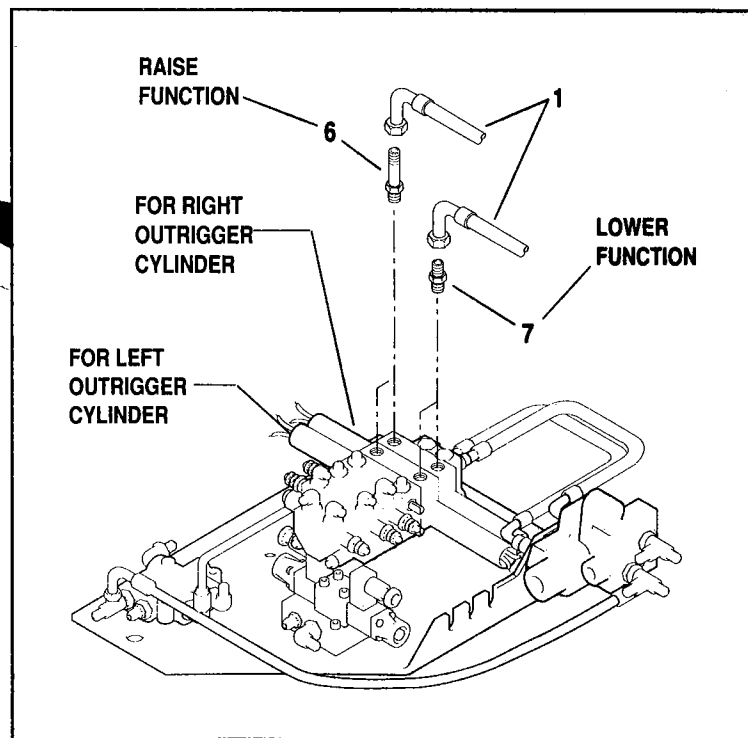
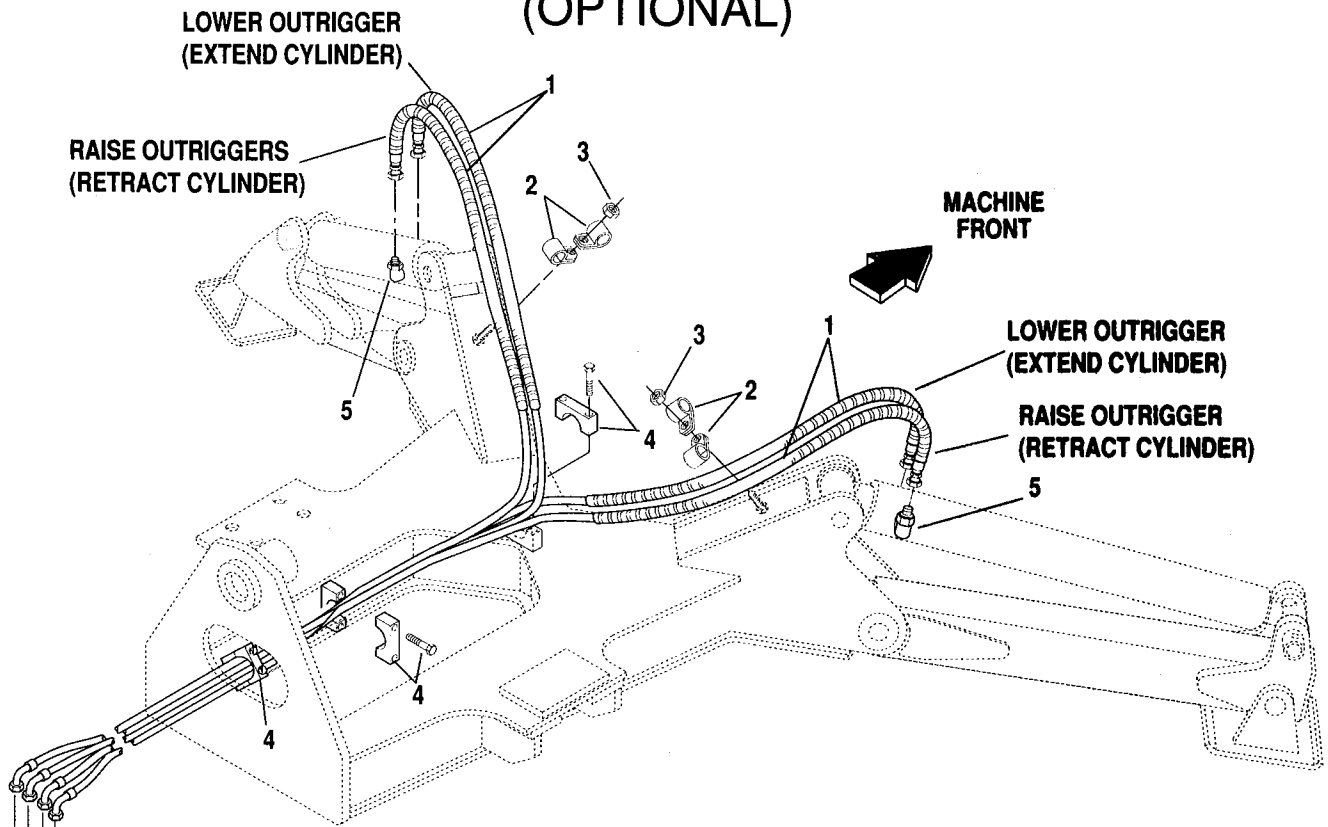


PB0640

AUXILIARY HYDRAULIC CIRCUIT — OPTIONAL

Item No.	Part Number	Qty.	Description
1	8584002	2	Tie Wrap
2	2712242	2	Hose Assembly
3	7065253	1	Tube Assembly, R. H.
4	7065243	1	Tube Assembly L. H.
5	2712312	2	Hose Assembly
6	8769122	6	Clamp Set, .625 I. D.
7	8769123	16	Cover, Clamp
8	8310009	6	Screw, Hex Hd Cap, 5/16-18 x 2
9	8305626	9	Locknut, 5/16-18
10	8769140	2	Clamp Set .675 I. D.
11	8303715	2	Screw, Hex Hd Cap, 5/16-18 x 1-1/2
12	7085491	1	Plate, Junction
13	8420056	1	Quick Disconnect, Male 3/8 NPT
14	8420058	1	Cap, Dust
15	8420057	1	Quick Disconnect, Female 3/8 NPT (See also item 15A)
15A	8640027	1	O-Ring, Viton - For High Temp. Application of item 15
16	8420059	1	Plug, Dust
17	8540001	2	Nipple, Pipe 3/8 NPT
18	8406201	3	Clamp, Hose
19	8760107	1	Connector, Straight, SAE 8 - 8, male JIC 37° x male str. thd. o-ring
20	8760143	1	Connector, Long Straight, SAE 8- 8, male JIC 37° x male str. thd. o-ring

OUTRIGGER CIRCUIT (OPTIONAL)

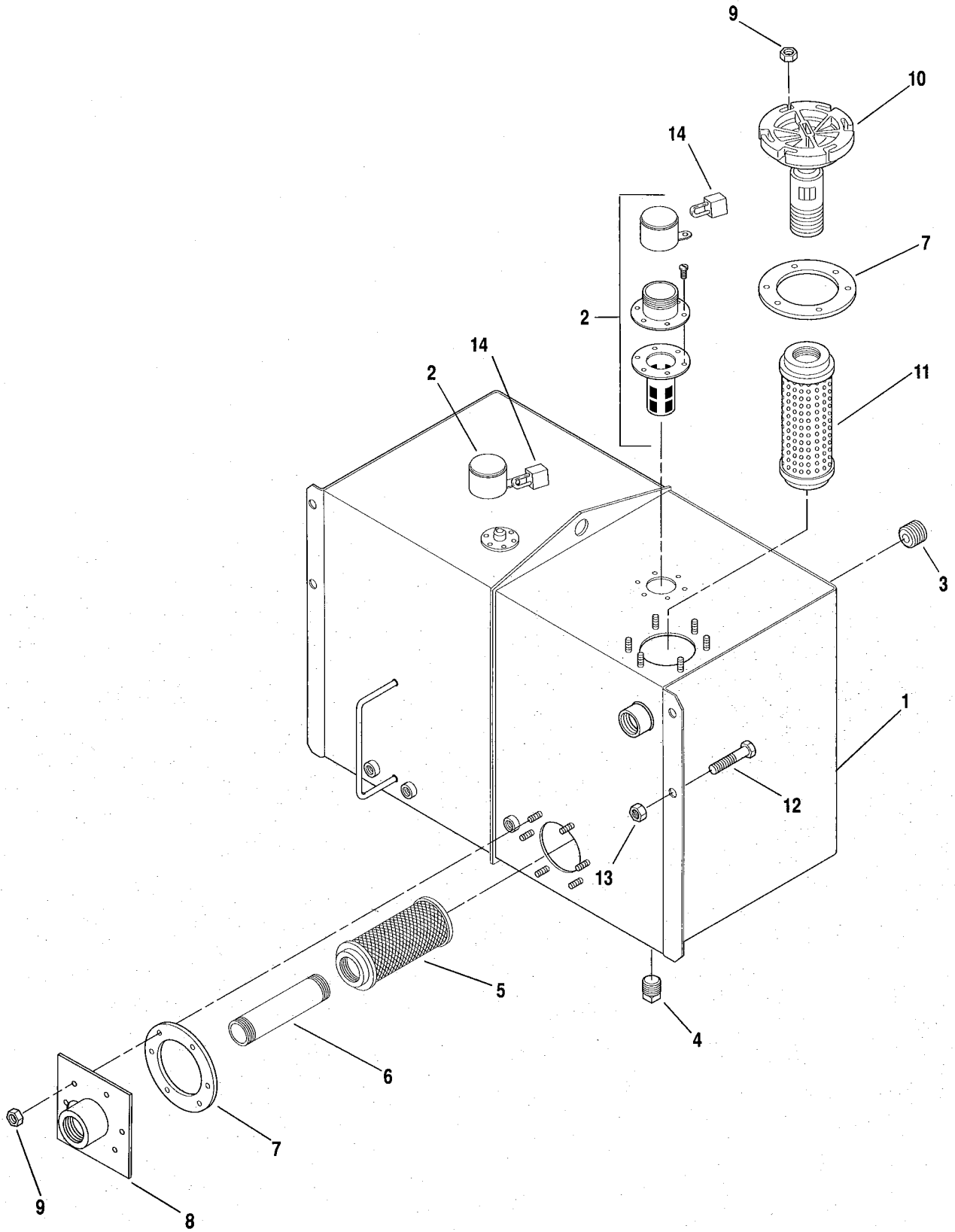


UNDERNEATH VIEW SEE PAGE 5.8
FOR VALVE PLATE BREAKDOWN

OUTRIGGER CIRCUIT (OPTIONAL)

Item No.	Part Number	Qty.	Description
1	2712412	4	Hose Assembly
2	8406201	4	Clamp, Hose
3	8305603	2	Locknut, 3/8-16
4	8769121	3	Clamp
5	8760303	4	Elbow, 90°, SAE 8-8, male JIC 37° x male str. thd. o-ring
6	8760143	2	Connector, Long, Straight, SAE 8-8, male JIC 37° x male str. thd. o-ring
7	8760107	2	Connector, Straight, SAE 8-8, male JIC 37° x male str. thd. o-ring

HYDRAULIC RESERVOIR

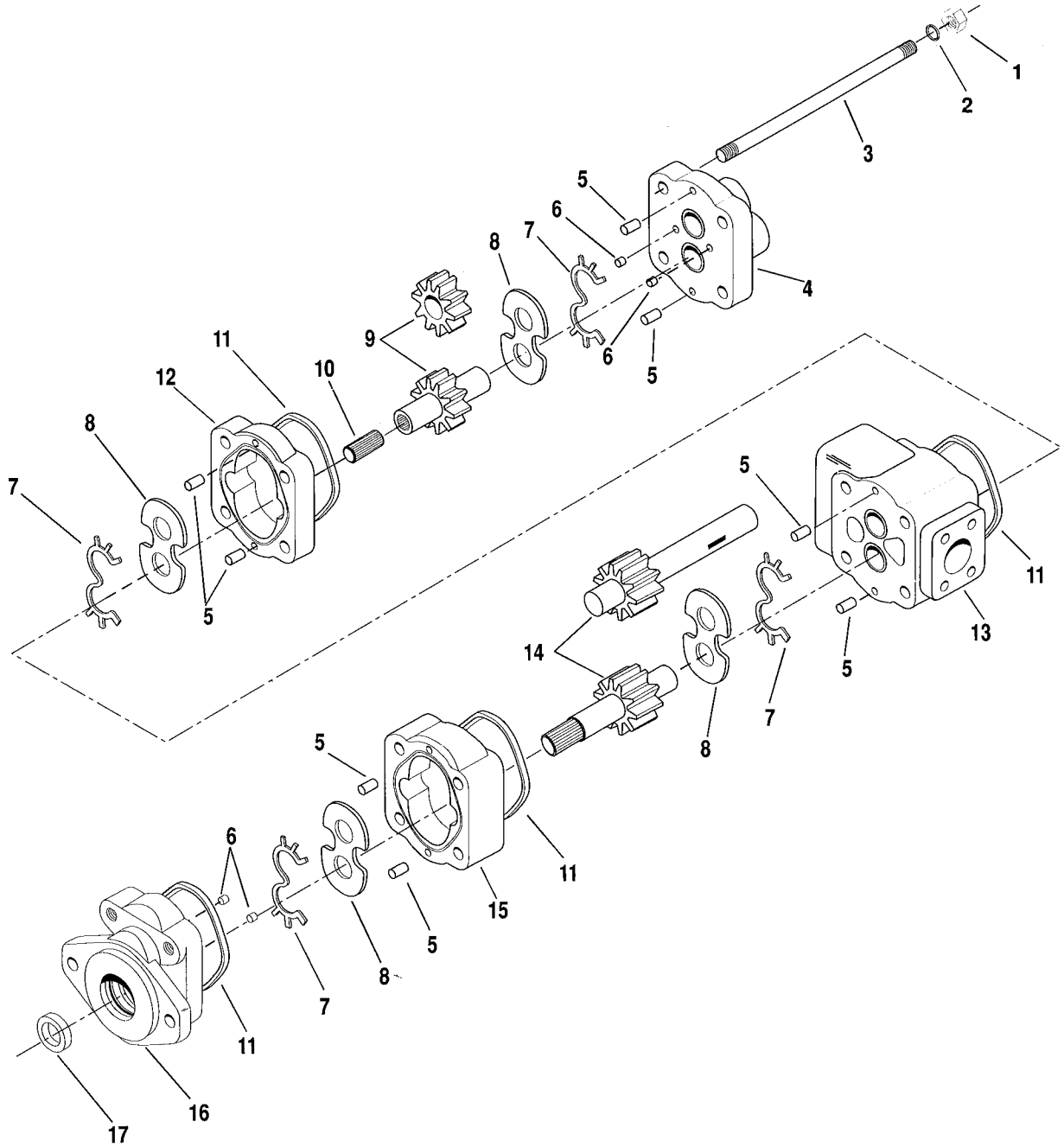


PB 0661

HYDRAULIC RESERVOIR

Item No.	Part Number	Qty.	Description
1	7086664	1	Reservoir, Hydraulic/Fuel
2	8322022	1	Filler/Breather
3	8464009	1	Gauge, Sight
4	8541409	1	Plug, Pipe, Square 1/2
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	8320257	1	Element
12	8393632	4	Screw, Hex Hd Cap, 5/8-11 x 2-1/2 Gr 5
13	8305643	4	Locknut, 5/8-11 ESNA
14	8342801	2	Padlock

MAIN TANDEM PUMP

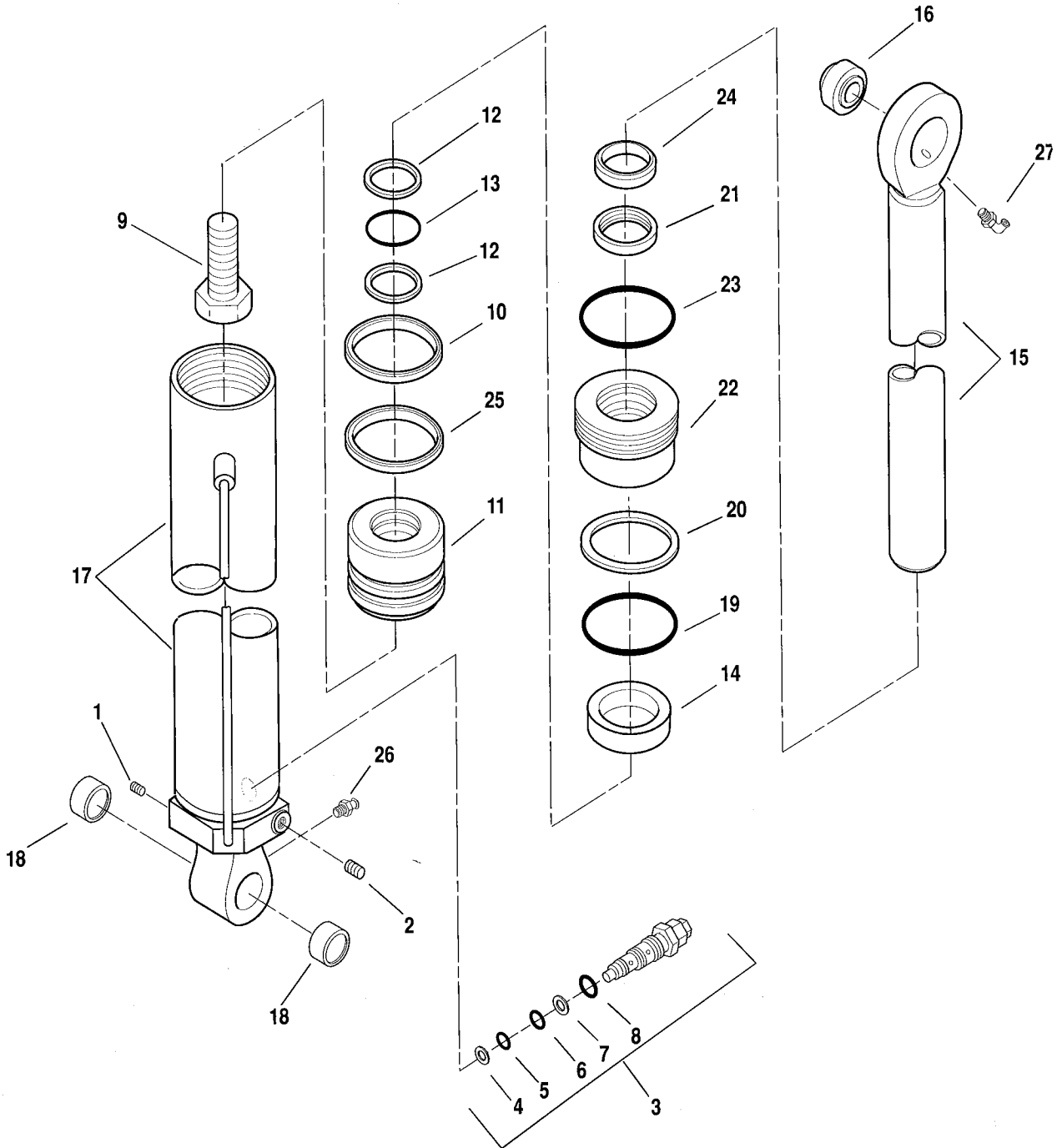


MA 0841

MAIN TANDEM PUMP

Item No.	Part Number	Qty.	Description
	8440215	1	Pump Assembly, Hydraulic (Includes Items 1 thru 17) — Funk Trans. (Counterclockwise)
	8440211	1	Pump Assy, Hydraulic (Includes items 1 thru 17) — Clark Trans. (Clockwise)
1	8032804	4	Nut, Hex
2	8032802	4	Washer
3	8032803	4	Stud
4	8032796	1	Housing, PEC
5	8032810	8	Pin, Dowel
6	8032806	4	Plug
7	See Kits	4	Seal, Channel
8	8032807	4	Plate, Thrust
9	8032801	1	Gear Set
10	8032813	1	Shaft, Connecting
11	See Kits	4	Seal, Sq-R
12	8032799	1	Housing, Gear
13	8032798	1	Housing, Bearing Carrier
14	8032800	1	Gear Shaft Set
15	8032797	1	Housing, Gear
16	8032795	1	Housing, SEC
17	See Kits	1	Seal, Lip
			<u>KITS</u>
	8032811	1	Seal Kit, Hydraulic Pump (Consists of items 7,11 and 17)

BOOM HOIST CYLINDER



PB 0671

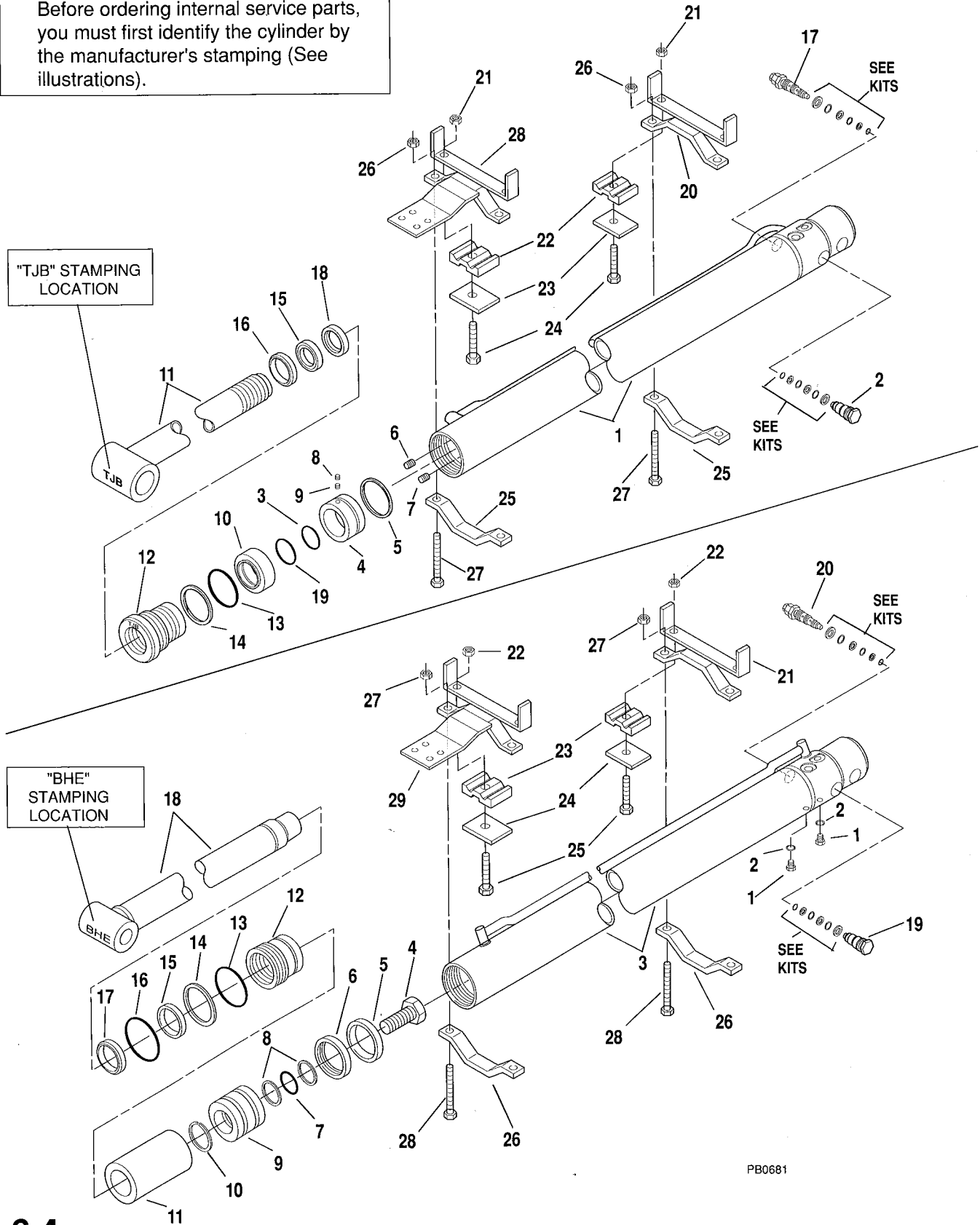
BOOM HOIST CYLINDER

Item No.	Part Number	Qty.	Description
	2711733	1	Cylinder, Boom Hoist (Includes Items 1 thru 25)
1	8033145	1	Plug, Sealing
2	8033426	2	Plug, Pipe
3	8903010	1	Counterbalance Valve Assembly (Includes items 4 thru 8)
4	See Kits	2	Ring, Back-up
5	See Kits	1	O-Ring
6	See Kits	1	O-Ring
7	See Kits	1	Ring, Back-up
8	See Kits	1	O-Ring
9	8033413	1	Screw, Hex Hd Cap
10	See Kits	1	Seal/Expander Assembly
11	8033415	1	Piston
12	See Kits	2	Ring, Back-up
13	See Kits	1	O-Ring
14	8033417	1	Spacer
15	8033418	1	Rod/Bushing Assembly (Includes item 16)
16	8033424	1	Bushing, Rod
17	8033419	1	Barrel/Bushing Assembly (Includes Item 17)
18	8033414	2	Bushing
19	See Kits	1	O-Ring
20	See Kits	1	Ring, Back-up
21	See Kits	1	Seal, Rod
22	8033422	1	Head
23	See Kits	1	O-Ring, Head
24	See Kits	1	Wiper, Rod
25	See Kits	1	Bearing, Piston
26	8520013	1	Fitting, Grease
27	8520021	1	Fitting, Grease 90°
			<u>KITS</u>
	8205666	1	Seal Kit, Boom Hoist Cylinder (Includes Items 4 thru 8, 10, 12, 13, 19, 20, 21, 23, 24 and 25)
	8033425	2	Seal Kit, Counterbalance Valve (Includes items 4 thru 8)

BOOM EXTEND CYLINDER

IMPORTANT !

Before ordering internal service parts, you must first identify the cylinder by the manufacturer's stamping (See illustrations).



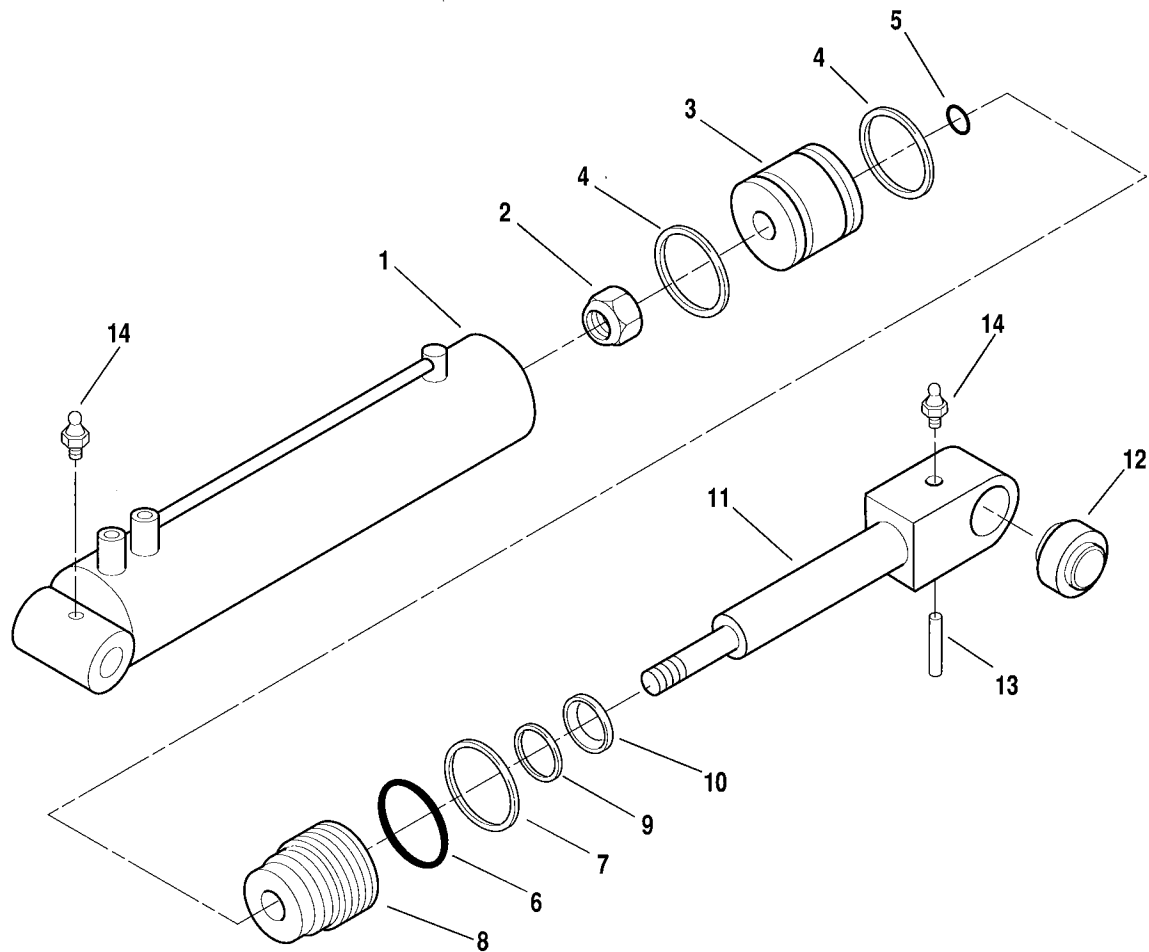
PB0681

Item No.	Part Number	Qty.	Description
	2711633	1	Cylinder, Boom Extend/Retract — TJB (Includes Items 1 thru 19)
1	8032722	1	Cylinder, Weld
2	8902473	1	Valve, Counterbalance
3	See Kits	1	O-Ring
4	8032734	1	Piston
5	See Kits	1	Seal, Piston
6	8032738	1	Plug
7	8032750	1	Plug, Orifice .070
8	See Kits	1	Set Screw, Nylon
9	See Kits	1	Set Screw
10	8032736	1	Tube, Stop
11	8032740	1	Rod
12	8032732	1	Gland
13	See Kits	1	O-Ring
14	See Kits	1	Seal, Par-Bak
15	See Kits	1	Seal, Rod
16	See Kits	1	Wiper, Rod
17	8032737	1	Valve, Pilot Check
18	See Kits	1	Seal, Step
19	See Kits	1	O-Ring
20	7079112	1	Bracket
21	8305602	2	Nut, Lock 5/16-18
22	8769122	1	Clamp Set (Both Halves)
23	8769123	2	Clamp, Cover
24	8303746	2	Screw, Hex Hd Cap, 5/16-18 x 1-3/4
25	7079122	2	Clamp
26	8305604	4	Nut, Lock 1/2-13 IFI
27	8303782	4	Screw, Hex Hd Cap, 1/2 -13 x 4"
28	7087942	1	Bracket
			<u>KITS</u>
	8205659	1	Seal Kit, Boom Extend/Retract Cylinder (Includes Items 3, 5, 8, 9, 13 thru 16, 18 and 19)
	8205656	2	Seal Kit, Counterbalance & Pilot Check Valve (Includes 3 O-Rings & 3 Back-Up Rings)

BOOM EXTEND CYLINDER

Item No.	Part Number	Qty.	Description
	2711633	1	Cylinder, Boom Extend /Retract — BHE (Includes Items 1 thru 20),
1	8033427	2	Plug
2	See Kits	2	O-Ring
3	8033428	1	Barrel, Weldment
4	8033129	1	Screw, Hex Hd Cap
5	See Kits	1	Bearing, Piston
6	See Kits	1	Seal/Expander Assembly
7	See Kits	1	O-Ring
8	See Kits	2	Ring, Back-up
9	8033128	1	Piston
10	8033123	1	Ring, Snap
11	8033122	1	Spacer
12	8033115	1	Head
13	See Kits	1	O-Ring
14	See Kits	1	Ring, Back-up
15	See Kits	1	Seal, Rod
16	See Kits	1	O-Ring, Head
17	See Kits	1	Wiper, Rod
18	8033429	1	Rod/Eye Weldment
19	8032737	1	Valve, Pilot Check
20	8902473	1	Valve, Counterbalance
21	7079112	1	Bracket
22	8305602	2	Nut, Lock 5/16-18
23	8769122	1	Clamp Set (Both Halves)
24	8769123	2	Clamp, Cover
25	8303746	2	Screw, Hex Hd Cap, 5/16-18 x 1-3/4
26	7079122	2	Clamp
27	8305604	4	Nut, Lock 1/2-13 IFI
28	8303782	4	Screw, Hex Hd Cap, 1/2 -13 x 4"
29	7087942	1	Bracket
			KITS
	8205667	1	Seal Kit, Boom Extend/Retract Cylinder (Includes Items 2, 5 thru 8 and 13 thru 17)
	8205656	2	Seal Kit, Pilot Check & Counterbalance Valve Cartridges (Includes 3 O-Rings & 3 Backup Rings)

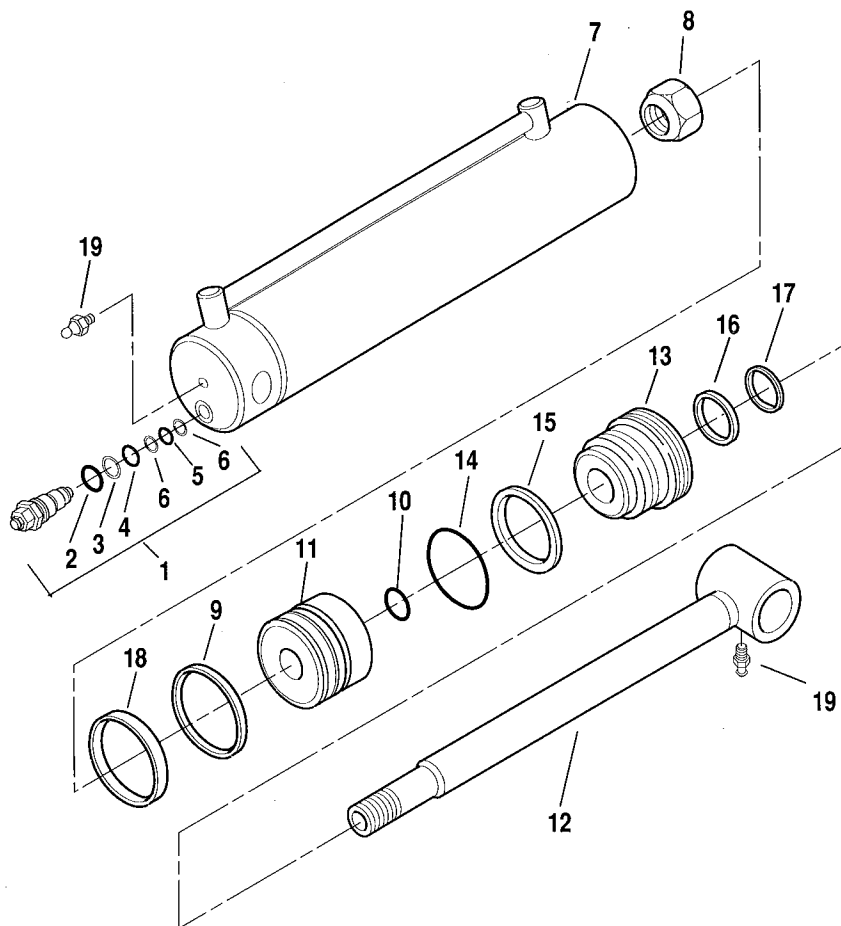
SLAVE CYLINDER



PB 0691

Item No.	Part Number	Qty.	Description
	2711683	2	Cylinder, Slave (Includes Items 1 thru 13)
1	8205503	1	Tube, Cylinder
2	8205507	1	Nut
3	8205505	1	Piston
4	See Kit	2	Seal, Piston
5	See Kit	1	O-Ring
6	See Kit	1	O-Ring
7	See Kit	1	Ring, Back-up
8	8205506	1	Gland
9	See Kit	1	Seal, Rod
10	See Kit	1	Wiper, Rod
11	8205542	1	Rod Assembly (Includes items 12 & 13)
12	8065634	1	Bushing, Self Aligning
13	8302141	1	Pin, Roll
14	8520013	2	Fitting, Grease
			KITS
	8205640	1	Seal Kit, Slave Cylinder (Includes Items 4 thru 7, 9 & 10)

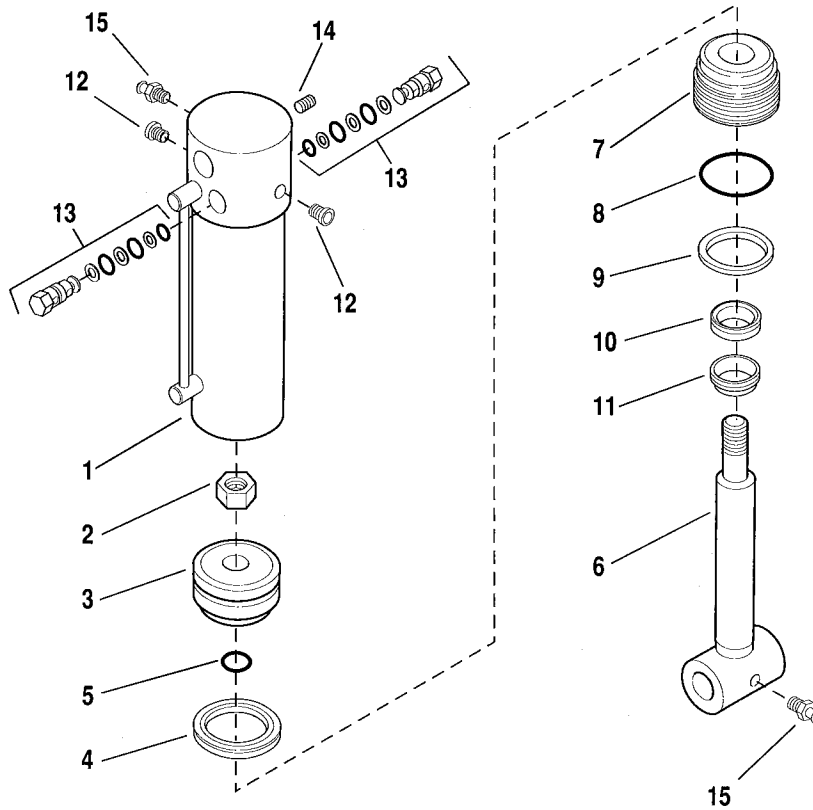
GRILLE TILT CYLINDER



PB 0701

Item No.	Part Number	Qty.	Description
1	2711743	1	Cylinder, Grille Tilt (Includes Items 1 thru 18)
2	8902527	1	Counterbalance Valve Assembly (Includes items 2 thru 6)
3	See Kits	1	O-Ring
4	See Kits	1	Ring, Back-up
5	See Kits	1	O-Ring
6	See Kits	2	Ring, Back-up
7	8033416	1	Barrel/Cap Weldment
8	8205524	1	Nut
9	See Kits	1	Seal/Expander Assembly
10	See Kits	1	O-Ring
11	8033420	1	Piston
12	8033421	1	Rod/Eye Weldment
13	8033423	1	Gland
14	See Kits	1	O-Ring
15	See Kits	1	Ring, Back-up
16	See Kits	1	Seal, Rod
17	See Kits	1	Wiper, Rod
18	See Kits	1	Bearing, Piston
19	8520013	2	Fitting, Grease, 1/8 Self Tap
			KITS
	8205665	1	Seal Kit, Grille Tilt Cylinder (Includes Items 2 thru 6, 9, 10 and 14 thru 18)
	8033425	1	Seal Kit, Counterbalance Valve (Includes 3 O-Rings and 3 Back-up Rings)

FRAME TILT CYLINDER

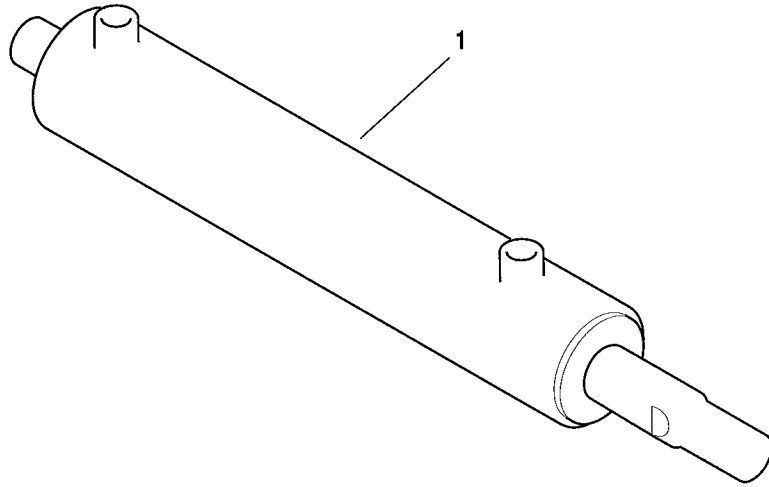


PB 0711

Item No.	Part Number	Qty.	Description
	2711643	1	Cylinder, Frame Tilt (Includes Items 1 thru 14)
1	8032708	1	Tube, Cylinder
2	8032702	1	Nut
3	8032709	1	Piston
4	See Kits	1	Seal, Piston
5	See Kits	1	O-Ring
6	8032721	1	Rod
7	8032704	1	Gland
8	See Kits	1	O-Ring
9	See Kits	1	Ring, Back-up
10	See Kits	1	Seal, Rod
11	See Kits	1	Wiper, Rod
12	8032712	2	Plug
13	8902511	2	Valve, Pilot Check
14	8032749	2	Plug, Orifice .078
15	8520013	2	Fitting, Grease
			<u>KITS</u>
	8032707	1	Seal Kit, Frame Tilt Cylinder (Includes Items 4,5 and 8 thru 11)
	8205655	2	Seal Kit, Pilot Check Valve (Includes 3 O-Rings & 3 Back-up Rings)

STEERING CYLINDER

(S/N 9N0648 AND BEFORE ONLY)

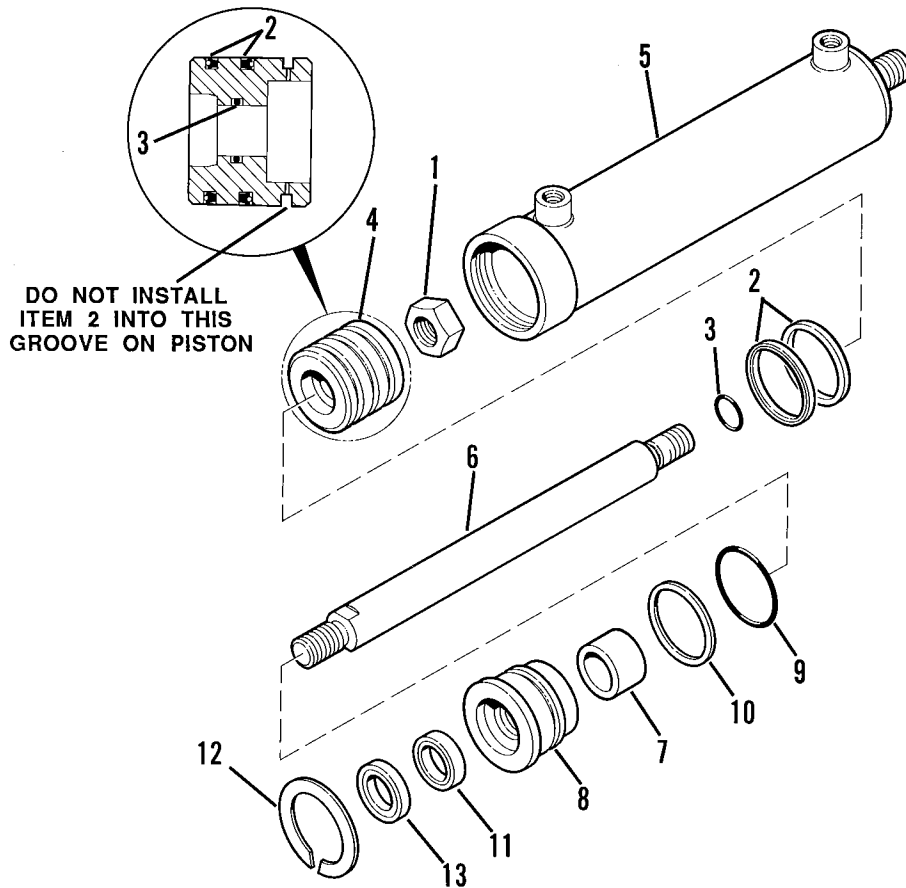


PB 0721

Item No.	Part Number	Qty.	Description
1	2711663	4	Cylinder Assembly, Steering

STEERING CYLINDER

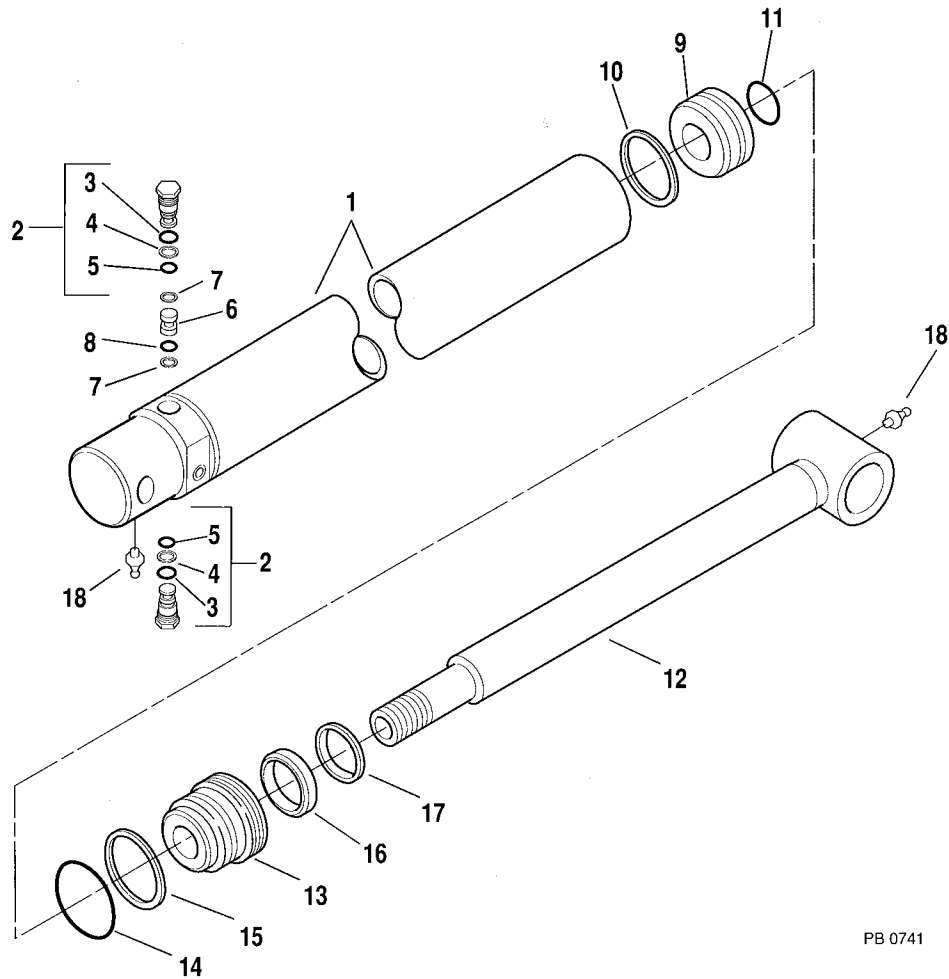
(S/N 9N0649 AND AFTER ONLY)



PB0730

Item No.	Part Number	Qty.	Description
	2712613	4	Cylinder Assembly, Steering (Includes items 1 thru 13)
1	8033431	1	Nut
2	See Kit	2	Seal, Piston
3	See Kit	1	O-Ring
4	8033433	1	Piston
5	8033434	1	Tube, Cylinder
6	8033435	1	Rod
7	8033436	1	Bushing, Bronze
8	8033437	1	Gland
9	See Kit	1	O-Ring
10	See Kit	1	Ring, Backup
11	See Kit	1	Seal, Rod
12	See Kit	1	Ring, Retaining
13	See Kit	1	Wiper, Canned
			<u>KITS</u>
	8205669	1	Seal Kit, Steering Cylinder (Includes items 3, 4 and 10 thru 13)

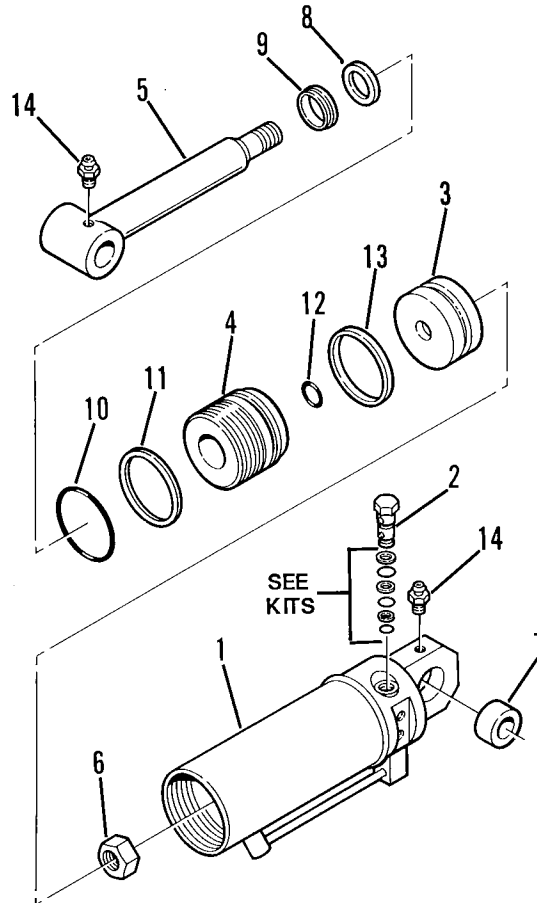
OUTRIGGER CYLINDER — (OPTIONAL)



PB 0741

Item No.	Part Number	Qty.	Description
1	2711623	2	Cylinder, Outrigger (Includes Items 1 thru 17)
	8032696	1	Cylinder, Weldment
2	8032697	2	Valve, Check (Includes Items 3 thru 5)
3	See Kits	1	O-Ring
4	See Kits	1	Ring, Back-up
5	See Kits	1	O-Ring
6	8032698	1	Piston
7	See Kits	2	Ring, Back-up
8	See Kits	1	O-Ring
9	8032699	1	Piston
10	See Kits	1	Seal, Piston
11	See Kits	1	O-Ring
12	8032711	1	Rod
13	8032741	1	Gland
14	See Kits	1	O-Ring
15	See Kits	1	Ring, Back-up
16	See Kits	1	Poly Pak
17	See Kits	1	Wiper, Rod
18	8520013	4	Fitting, Grease 1/8 NPT
			KITS
	8205659	1	Seal Kit, Outrigger Cylinder (Includes Items 10, 11 and 14 thru 17)
	8205662	2	Seal Kit, Check Valve (Includes Items 3 thru 5, 7 and 8)

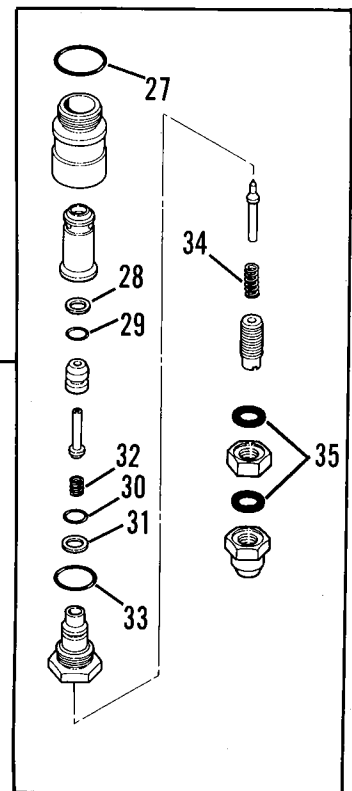
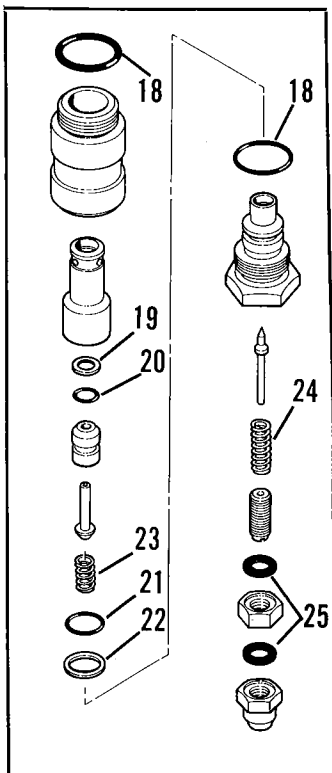
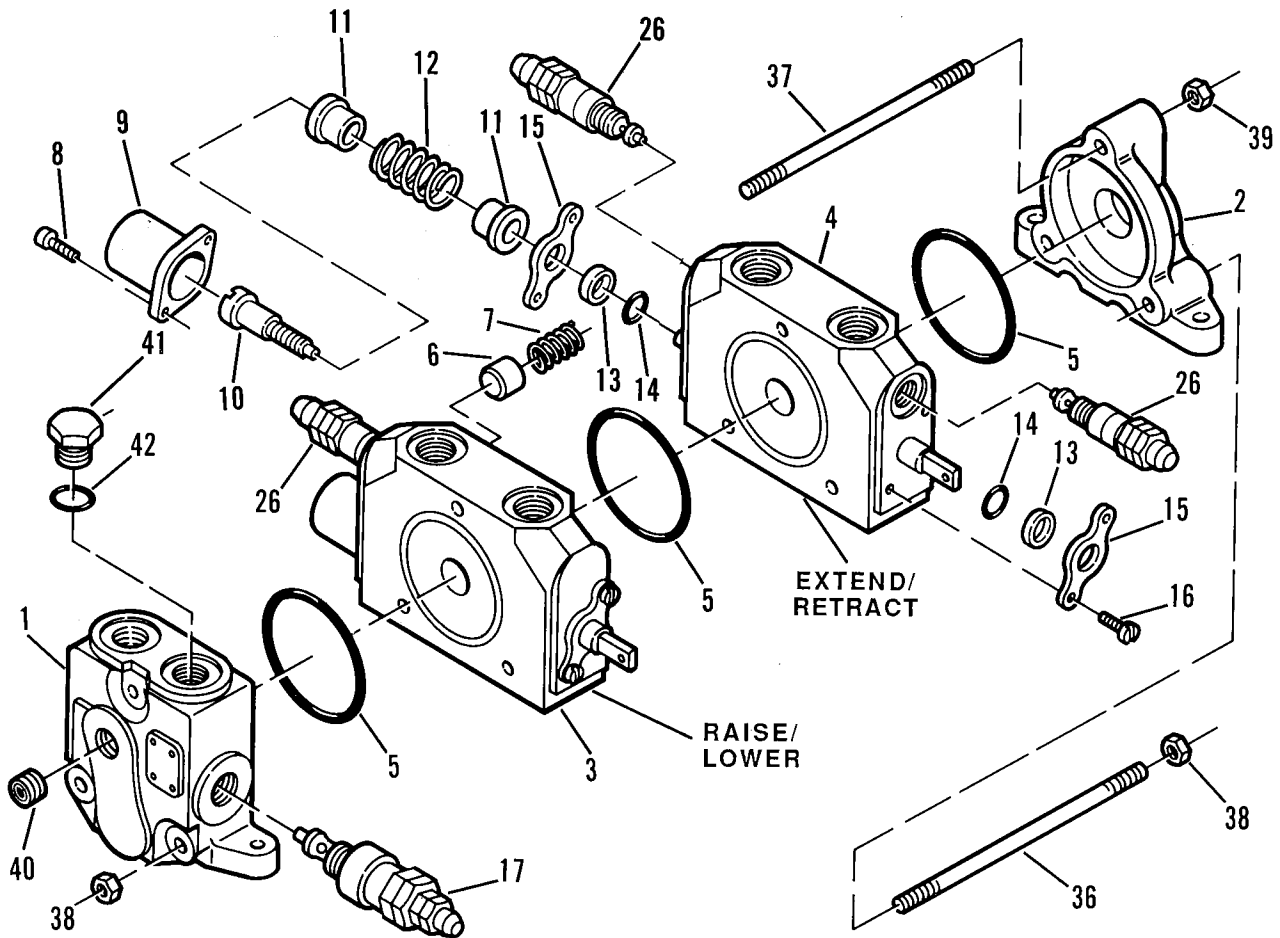
SIDE TILT CARRIAGE CYLINDER



PA 0672

Item No.	Part Number	Qty.	Description
	2711613	1	Side Tilt Carriage Cylinder (Includes Items 1 thru 13)
1	8205543	1	Barrel, Cylinder
2	8902511	2	Valve, Check (See Kits)
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, Back-Up
12	See Kits	1	O-Ring
13	See Kits	1	Seal, Piston
14	8520013	2	Fitting, Grease
			KITS
	8205661	1	Seal Kit, Side Tilt Carriage Cylinder (Includes Items 8 thru 13)
	8205655	1	Seal Kit, Check Valve (Includes 3 O-Rings & 3 Backup Rings)

MAIN CONTROL VALVE — CABLE CONTROLLED



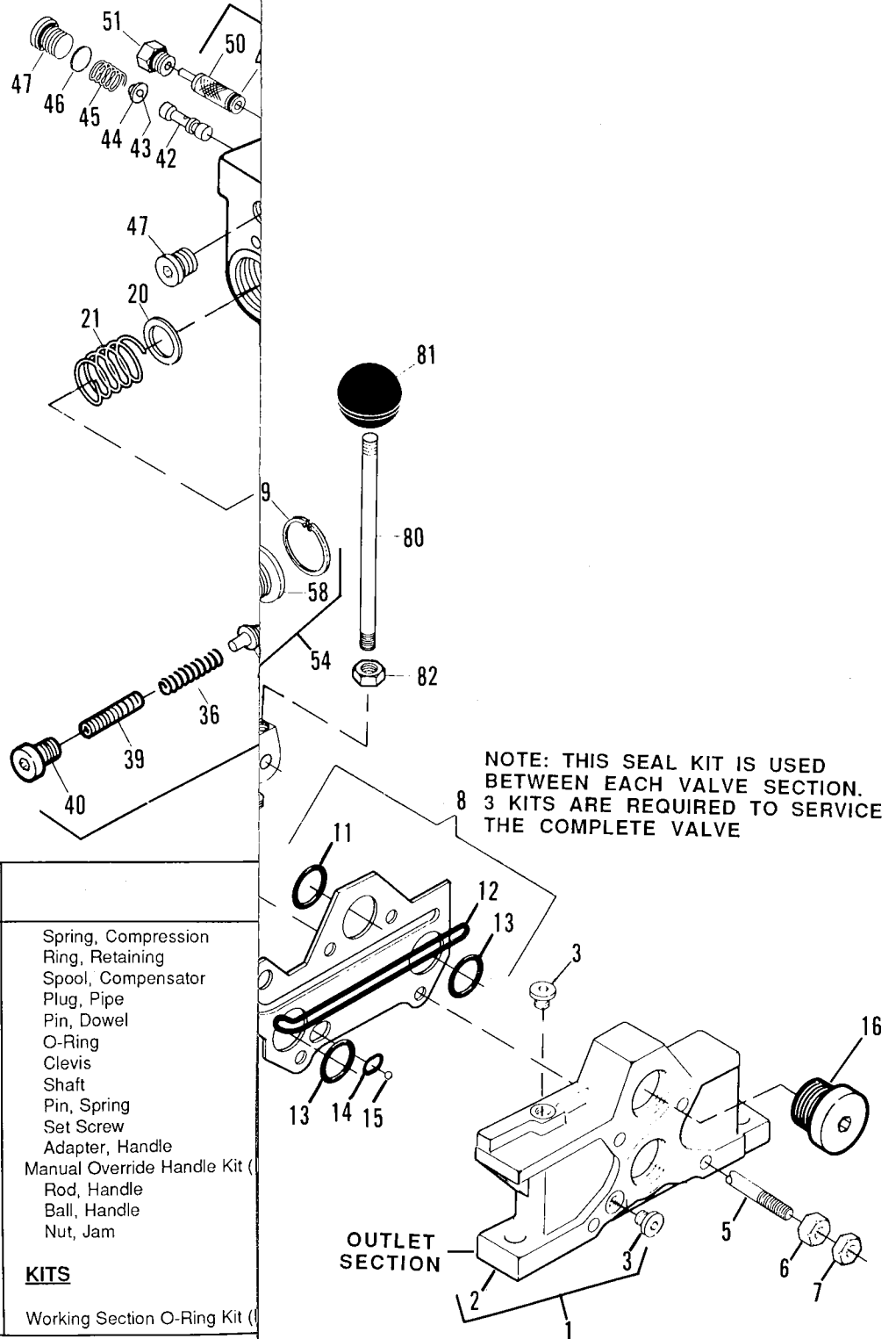
MAIN CONTROL VALVE — CABLE CONTROLLED

Item No.	Part Number	Qty.	Description
	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, Soc 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 Rd. Hd.
17	8033216	1	Relief Valve, Main (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	8902493	3	Relief Valve, Port (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
			<u>KITS</u>
	8033154	1	Rebuild Kit for items 3 and 4 (Includes 3 of item 5 , listed quantities of items 6 thru 16 and 40, 41 & 42)
	8033218	1	Seal & Spring Kit for Main Relief Valve Item 17(Includes items 18 thru 25)
	8902495	3	Spring & Seal Kit for Port Relief Valve item 26 (Includes items 27 thru 35)
	8903011	1	Tie Rod kit (Includes Items 36 thru 39)

MAIN CONTROL VALVE — ELECTRONIC CONTROLLED

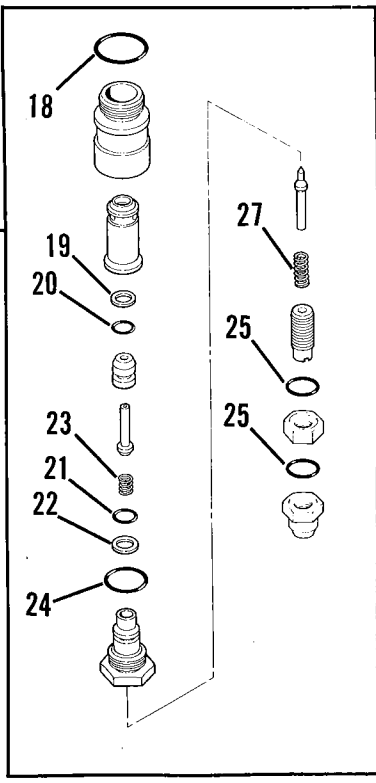
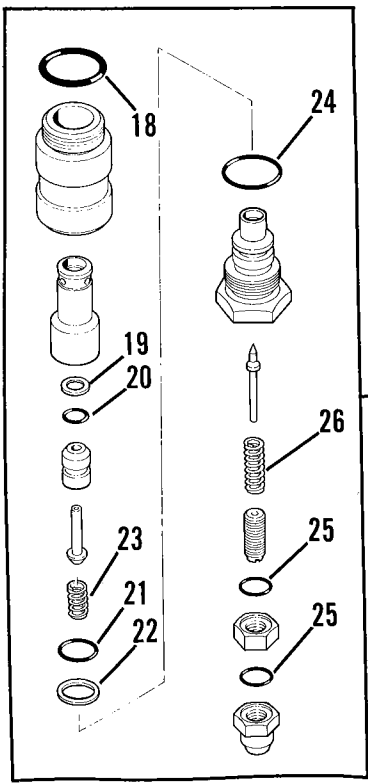
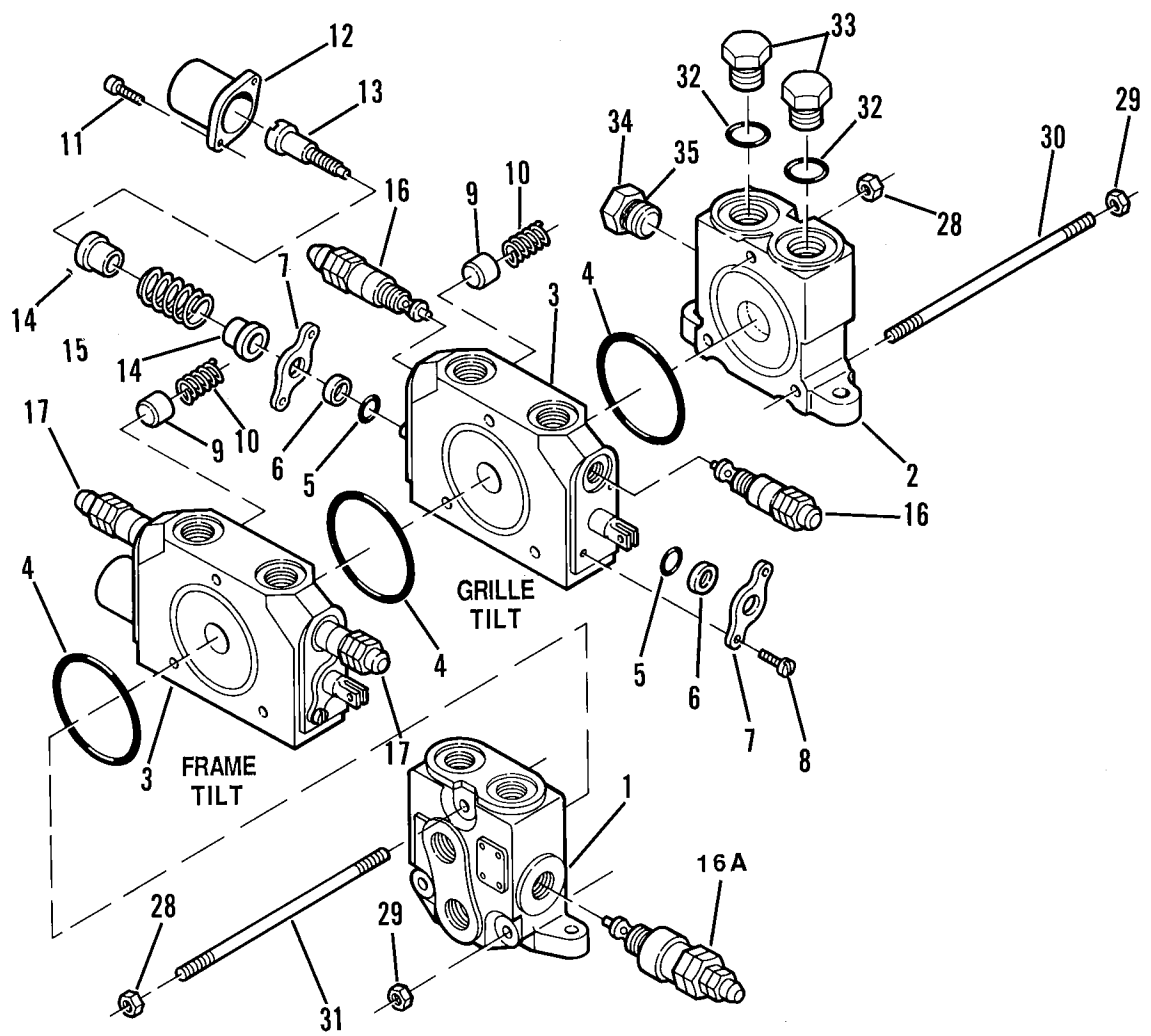
Item No.	Part Number	Qty.	Description
1	8902121	1	Main Control Valve (Includes Items 1 thru 78)
2	8033255	1	Outlet Section (Includes Items 2 & 3)
3		1	Body, End Cover
4		2	Plug, SAE
5	8033256	1	Tie Rod Kit (Includes Items 5, 6 & 7)
6		4	Rod, Tie
7		4	Nut, Hex
8		4	Nut, Jam
9	8033257	3	Seal Plate Kit (Includes Items 9 thru 15)
10		1	Plate, Seal
11		2	O-Ring
12		1	O-Ring
13		1	O-Ring
14		2	O-Ring
15		1	O-Ring
16		1	Ball, 3/16"
17	8033258	2	Plug, SAE
18	8033278	1	Bypass Compensating Inlet Valve Assembly (Includes Items 16, 18-21, 30, 41-48 and 51)
19	8033279	1	Spool, Bypass
20	8033280	1	Plug, SAE
21	8033281	1	Washer, Spring
22	8033282	1	Spring, Compression
23	8033284	1	Bypass Compensating O-Ring Kit (Includes Items 23 thru 29)
24		1	O-Ring
25		1	Ring, Backup
26		1	O-Ring
27		1	O-Ring
28		3	O-Ring, Plug (Not Shown)
29		2	O-Ring, Plug (Not Shown)
30		1	O-Ring, Plug (Not Shown)
31	8033285	1	Compensator Adjustment Kit (Includes Items 31 thru 40)
32		1	Seat
33		1	O-Ring
34		1	Ring, Backup
35		1	O-Ring
36		1	Cone, Poppet
37		1	Spring, Pressure Limiter Compression
38		1	Nut, Lock
39		1	Plug, Adjustment
40		1	Screw, Set
41		1	Plug, SAE
42	8033286	1	Screw, Orifice
43	8033287	1	Spool, Pilot Reducing
44	8033288	1	Ball, Valve
45	8033289	1	Guide, Spring
46	8033290	1	Spring, Compression
47	8033291	4	Shim, Pilot
48	8033292	2	Plug, SAE
49	8033295	1	Bypass Pilot Filter Kit (Includes Items 49 & 50)
50		1	O-Ring
51		1	Filter
52	8033293	1	Plug, SAE
53	8033259	1	Hoist Working Section Valve Assembly (Includes Spool)
54	8033260	1	Extend Working Section Valve Assembly (Includes Spool)
55	8033261	1	End Plug Kit (Includes Items 55 thru 60)
56		1	O-Ring
57		1	Ring, Retaining
58		1	Plug
59		1	Plug
60		1	Ring, Retaining
61		1	O-Ring
62	8903009	1	Solenoid Cartridge w/ Weather Pack Connector
63	8033263	1	O-Ring
64	8033264	1	Plug, Compensator
65	8033265	1	Compensator Shim Kit (Includes Items 65,66 and 67)
66		100	Shim, Regulator
67		100	Shim, Regulator
		100	Shim, Regulator

MAIN CONTROL VALVE ELECTRONIC CONTROLLED



Item No.	Part Number	Qty	Description
68	8033266	1	Spring, Compression
69	8033267	1	Ring, Retaining
70	8033268	1	Spool, Compensator
71	8033269	1	Plug, Pipe
72	8033270	1	Pin, Dowel
73	8033271	2	O-Ring
74	8033272	1	Clevis
75	8033273	1	Shaft
76	8033274	1	Pin, Spring
77	8033275	1	Set Screw
78	8033276	1	Adapter, Handle
79	8033277	1	Manual Override Handle Kit (
80		1	Rod, Handle
81		1	Ball, Handle
82		1	Nut, Jam
			KITS
	8033294	1	Working Section O-Ring Kit (

SECONDARY CONTROL VALVE — FRAME AND GRILLE TILT



6.13

PB0770

9038

Origin 2/90

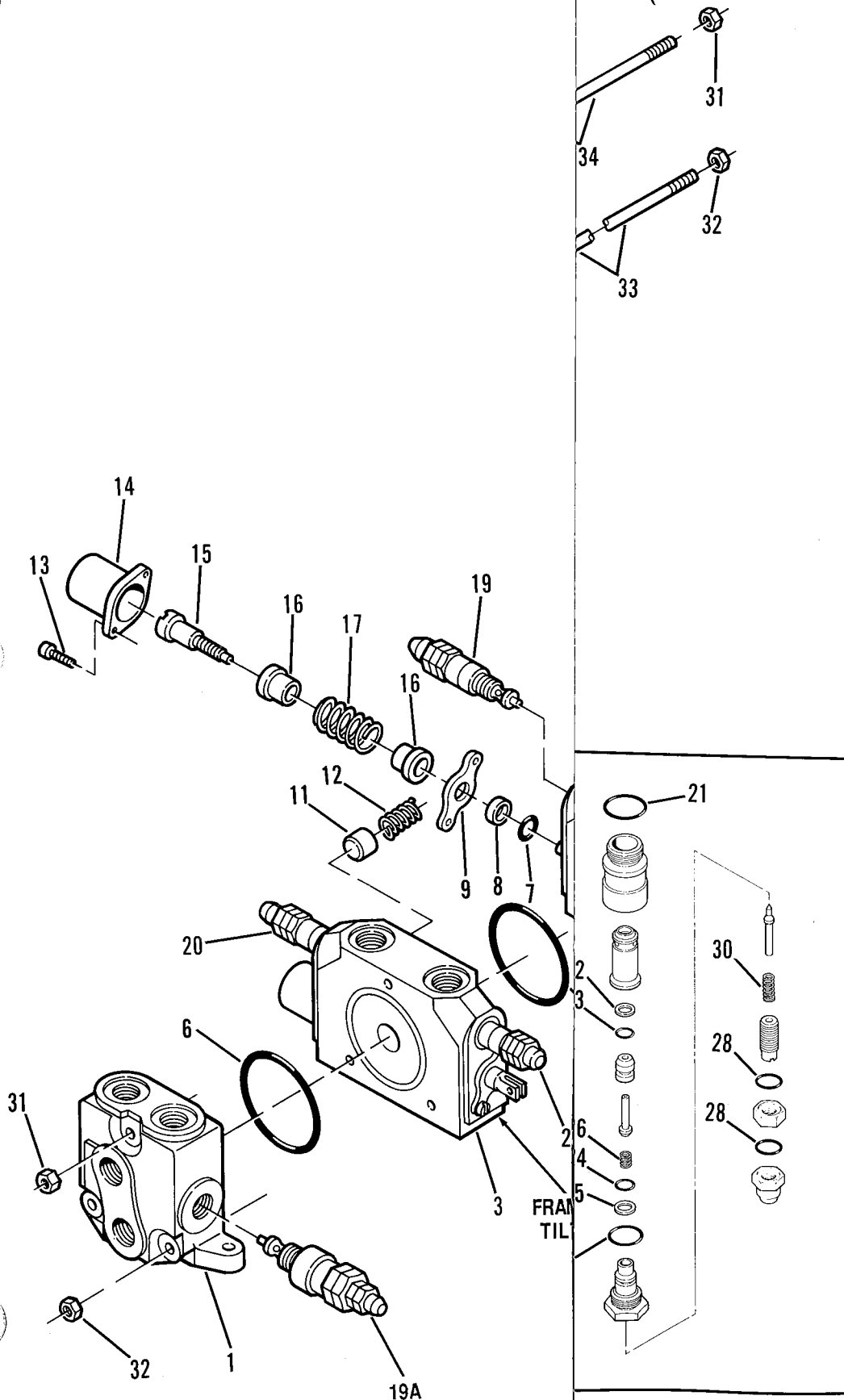
SECONDARY CONTROL VALVE — FRAME AND GRILLE TILT

Item No.	Part Number	Qty.	Description
	8902126	1	Control Valve Assembly, Frame and Grille Tilt (Includes items 1 thru 35)
1	8033410	1	Section, Inlet (Includes 1 of item 4)
2	8033411	1	Section, Outlet
3	8033236	2	Section, Frame/Grille Tilt (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, Rd Hd Mach
9	See Kits	1	Poppet, C V
10	See Kits	1	Spring
11	See Kits	2	Screw, Soc 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 Assembly - Preset at 3250 ± 50 psi (Includes items 18 thru 26)
16A	8033164	1	Main Relief Valve - Preset at 2650 ± 50 psi (Includes items 18 thru 26)
17	8033150	2	Relief Valve Assembly - Preset at 1200 ± 50 psi (Includes items 18 thru 25 & 27)
18	See Kits	1	O-Ring
19	See Kits	1	Ring, Back-Up
20	See Kits	1	O-Ring
21	See kits	1	O-Ring
22	See Kits	1	Ring, Back-Up
23	See Kits	1	Spring
24	See Kits	1	O-Ring
25	See Kits	2	O-Ring
26	See Kits	1	Spring (Used on Item 16 & 16A only)
27	See Kits	1	Spring (Used on Item 17 only)
28	See Kits	2	Nut, Special
29	See Kits	4	Nut, Special
30	See Kits	2	Tie Rod
31	See Kits	1	Tie Rod
32	See Kits	2	O-Ring
33	See Kits	2	Plug, SAE
34	See Kits	1	Plug Assembly, Shut-Off
35	See Kits	1	Seal, Special
			<u>KITS</u>
	8033155	AR	Rebuild Kit for individual service of item 3 (Includes 4 of item 4 and listed quantities of items 5 thru 15)
	8902495	1	Seal & Spring Kit for Relief Valve item 16 & 16A (Includes items 18 thru 26)
	8033219	1	Seal & Spring Kit for Relief Valve item 17 (Includes items 18 thru 25 & 27)
	8902094	1	Tie Rod Kit (Includes items 28 thru 31)

SECONDARY CONTROL VALVE—FRAME/GRILLE TILT, AUXILIARY HYDRAULICS AND OUTRIGGERS (S/N 9A0550 THRU S/N 0B0675)

Item No.	Part Number	Qty.	Description
	7089453	1	Control Valve Assembly, Frame/Grille Tilt and Aux. Hyd. (Includes items 1, 2, 3, 4, 6 thru 17 and 19 thru 38)
	8902128	1	Control Valve Assembly, Frame/Grille Tilt and Outriggers (Includes items 1, 2, 3, 5 and 6 thru 38)
	8902127	1	Control Valve Assembly, Frame/Grille Tilt, Aux. Hyd & Outriggers (Includes items 1 thru 38)
1	8033410	1	Section, Inlet (Includes 1 of item 6)
2	8033411	1	Section, Outlet
3	8033236	2	Section, Frame/Grille Tilt (Includes items 6 thru 17)
4	8902115	1	Section, Auxiliary Hydraulics (Includes items 6 thru 17)
5	8033409	2	Section, Outriggers (Includes items 6, 11, 12 and 18)
6	See Kits	1	O-Ring
7	See Kits	2	O-Ring
8	See Kits	2	Wiper
9	See Kits	2	Plate, Seal
10	See Kits	2	Screw, Rd Hd Mach
11	See Kits	1	Poppet, C V
12	See Kits	1	Spring
13	See Kits	2	Screw, Soc Hd Cap
14	See Kits	1	Cap, Spool
15	See Kits	1	End, Spool
16	See Kits	2	Seat, Spring
17	See Kits	1	Spring
18	8033163	2	Solenoid Assembly
19	8033165	2	Relief Valve Assembly - Preset at 3250 ± 50 psi (Includes items 21 thru 29)
19A	8033164	1	Main Relief Valve - Preset at 2650 ± 50 psi (Includes items 21 thru 29)
20	8033150	2	Relief Valve Assembly - Preset at 1200 ± 50 psi (Includes items 21 thru 28 & 30)
21	See Kits	1	O-Ring
22	See Kits	1	Ring, Back-Up
23	See Kits	1	O-Ring
24	See Kits	1	O-Ring
25	See Kits	1	Ring, Back-Up
26	See Kits	1	Spring
27	See Kits	1	O-Ring
28	See Kits	2	O-Ring
29	See Kits	1	Spring (Used on Item 19 & 19A Only)
30	See Kits	1	Spring (Used on Item 20 Only)
31	See Kits	2	Nut, Special
32	See Kits	4	Nut, Special
33	See Kits	2	Tie Rod
34	See Kits	1	Tie Rod
35	See Kits	2	O-Ring
36	See Kits	2	Plug, SAE
37	See Kits	1	Plug, Shut-Off
38	See Kits	1	Seal, Special
			KITS
	8033237	AR	Rebuild Kit for individual service of items 3, 4 or 5 (Includes 6 of item 6 and listed quantities of items 7 thru 17)
	8902495	1	Seal & Spring Kit for Relief Valve item 19 & 19A (Includes items 21 thru 29)
	8033219	1	Seal & Spring Kit for Relief Valve item 20 (Includes items 21 thru 28 & 30)
	8902095	1	Tie Rod Kit — 3 Section Valve (Includes items 31 thru 34)
	8902096	1	Tie Rod Kit — 4 Section Valve (Includes items 31 thru 34)
	8902131	1	Tie Rod Kit — 5 Section Valve (Includes items 31 thru 34)

**SECONDARY CONTROL VALVE —
 FRAME /GRILLE TILT, AUXILIARY
 HYDRAULICS AND OUTRIGGERS
 (S/N 9A0550 THRU S/N 0B0675)**

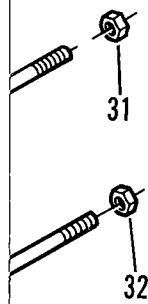


PB 0780

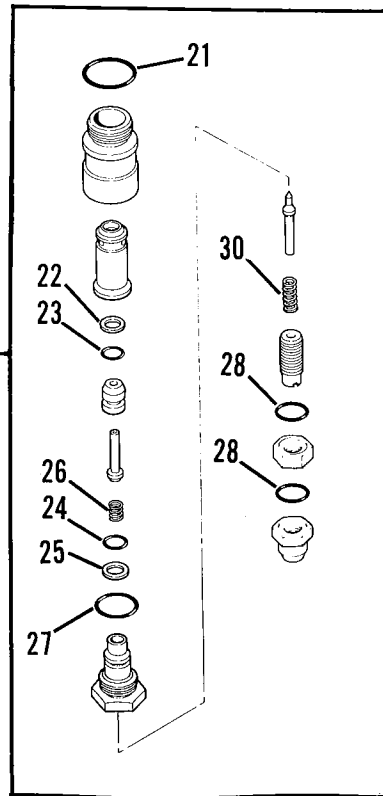
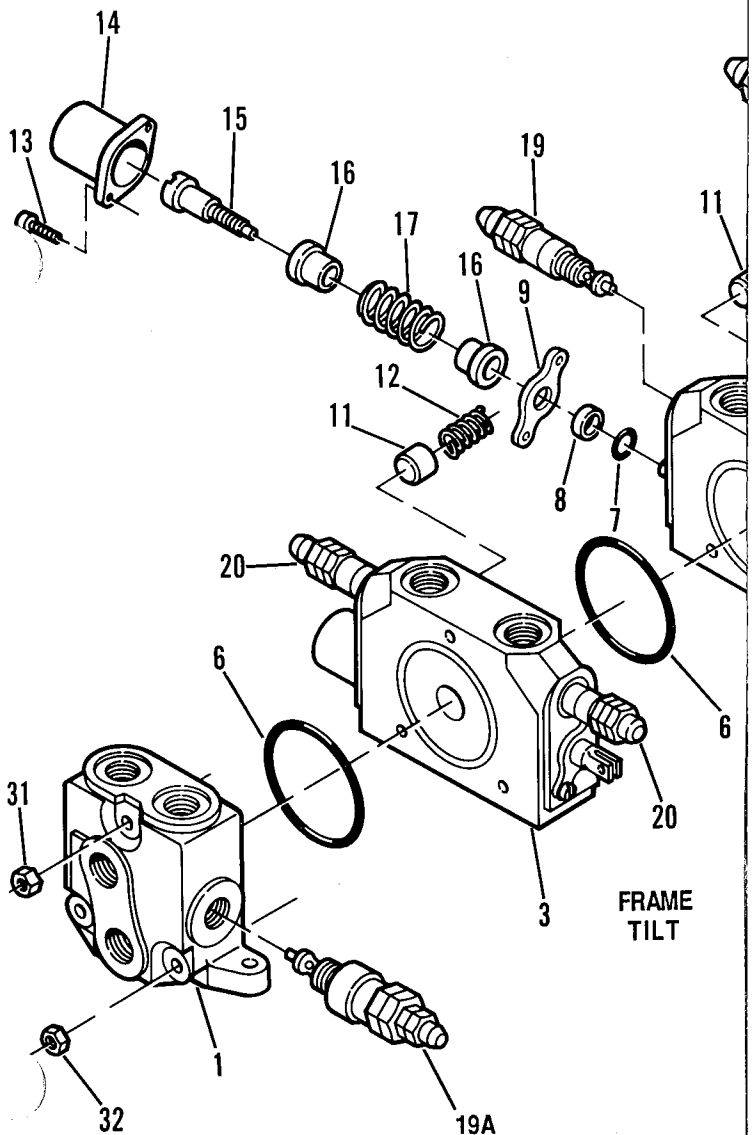
**SECONDARY CONTROL VALVE — FRAME/GRILLE TILT, AUXILIARY HYDRAULICS
AND OUTRIGGERS (S/N 0B0676 AND AFTER)**

Item No.	Part Number	Qty.	Description
	7092343	1	Control Valve Assembly, Frame/Grille Tilt and Aux. Hyd. (Includes items 1, 2, 3, 4, 6 thru 17 and 19 thru 38)
	8902128	1	Control Valve Assembly, Frame/Grille Tilt and Outriggers (Includes items 1, 2, 3, 5 and 6 thru 38)
	8904034	1	Control Valve Assembly, Frame/Grille Tilt, Aux. Hyd & Outriggers (Includes items 1 thru 38)
1	8033410	1	Section, Inlet (Includes 1 of item 6)
2	8033411	1	Section, Outlet
3	8033236	2	Section, Frame/Grille Tilt (Includes items 6 thru 17)
4	8033236	1	Section, Auxiliary Hydraulics (Includes items 6 thru 17)
5	8033409	2	Section, Outriggers (Includes items 6, 11, 12 and 18)
6	See Kits	1	O-Ring
7	See Kits	2	O-Ring
8	See Kits	2	Wiper
9	See Kits	2	Plate, Seal
10	See Kits	2	Screw, Rd Hd Mach
11	See Kits	1	Poppet, C V
12	See Kits	1	Spring
13	See Kits	2	Screw, Soc Hd Cap
14	See Kits	1	Cap, Spool
15	See Kits	1	End, Spool
16	See Kits	2	Seat, Spring
17	See Kits	1	Spring
18	8033163	2	Solenoid Assembly
19	8033165	4	Relief Valve Assembly - Preset at 3250 ± 50 psi (Includes items 21 thru 29)
19A	8033164	1	Main Relief Valve - Preset at 2650 ± 50 psi (Includes items 21 thru 29)
20	8033150	2	Relief Valve Assembly - Preset at 1200 ± 50 psi (Includes items 21 thru 28 & 30)
21	See Kits	1	O-Ring
22	See Kits	1	Ring, Back-Up
23	See Kits	1	O-Ring
24	See Kits	1	O-Ring
25	See Kits	1	Ring, Back-Up
26	See Kits	1	Spring
27	See Kits	1	O-Ring
28	See Kits	2	O-Ring
29	See Kits	1	Spring (Used on Item 19 & 19A Only)
30	See Kits	1	Spring (Used on Item 20 Only)
31	See Kits	2	Nut, Special
32	See Kits	4	Nut, Special
33	See Kits	2	Tie Rod
34	See Kits	1	Tie Rod
35	See Kits	2	O-Ring
36	See Kits	2	Plug, SAE
37	See Kits	1	Plug, Shut-Off
38	See Kits	1	Seal, Special
			KITS
	8033237	AR	Rebuild Kit for individual service of items 3, 4 or 5 (Includes 6 of item 6 and listed quantities of items 7 thru 17)
	8902495	1	Seal & Spring Kit for Relief Valve item 19 & 19A (Includes items 21 thru 29)
	8033219	1	Seal & Spring Kit for Relief Valve item 20 (Includes items 21 thru 28 & 30)
	8902095	1	Tie Rod Kit — 3 Section Valve (Includes items 31 thru 34)
	8902096	1	Tie Rod Kit — 4 Section Valve (Includes items 31 thru 34)
	8902131	1	Tie Rod Kit — 5 Section Valve (Includes items 31 thru 34)

**SECONDARY CONTROL VALVE —
 FRAME /GRILLE TILT, AUXILIARY
 HYDRAULICS AND OUTRIGGERS
 (S/N 0B0676 AND AFTER)**



3



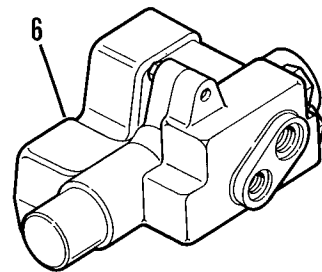
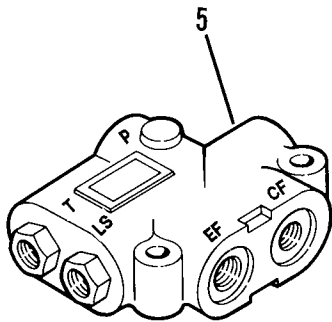
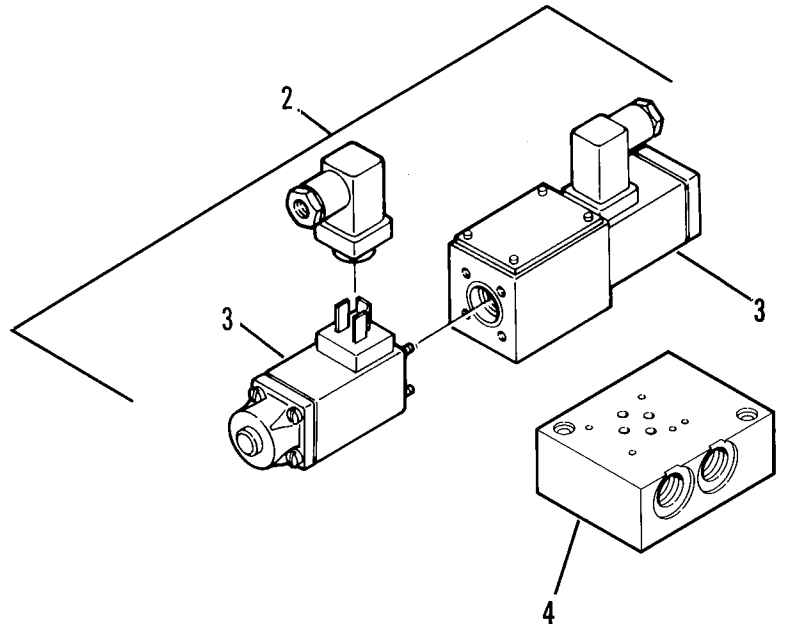
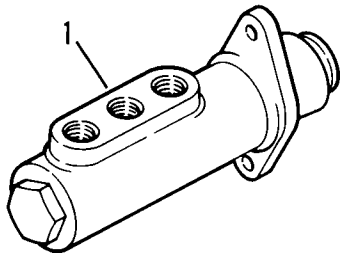
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Origin 2/90

DIRECTIONAL CONTROL VALVES



PB0790

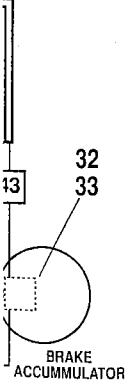
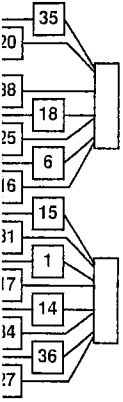
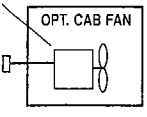
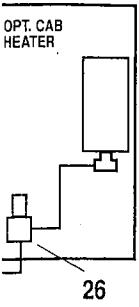
DIRECTIONAL CONTROL VALVES

Item No.	Part Number	Qty.	Description
1	8902228	1	Brake Valve Assembly (See Kits)
2	8902109	1	Valve, Steer Select (Includes Item 3)
3	8032756	2	Solenoid
4	8902111	1	Body, Steer Select Valve
5	8902227	1	Valve, Priority
6	8902229	1	Valve, Accumulator Charging (See Kits)
			<u>KITS</u>
	8032812	1	Repair Kit, Brake Valve (Item 1)
	8032814	1	Repair Kit, Acc. Charging Valve (Item 6)

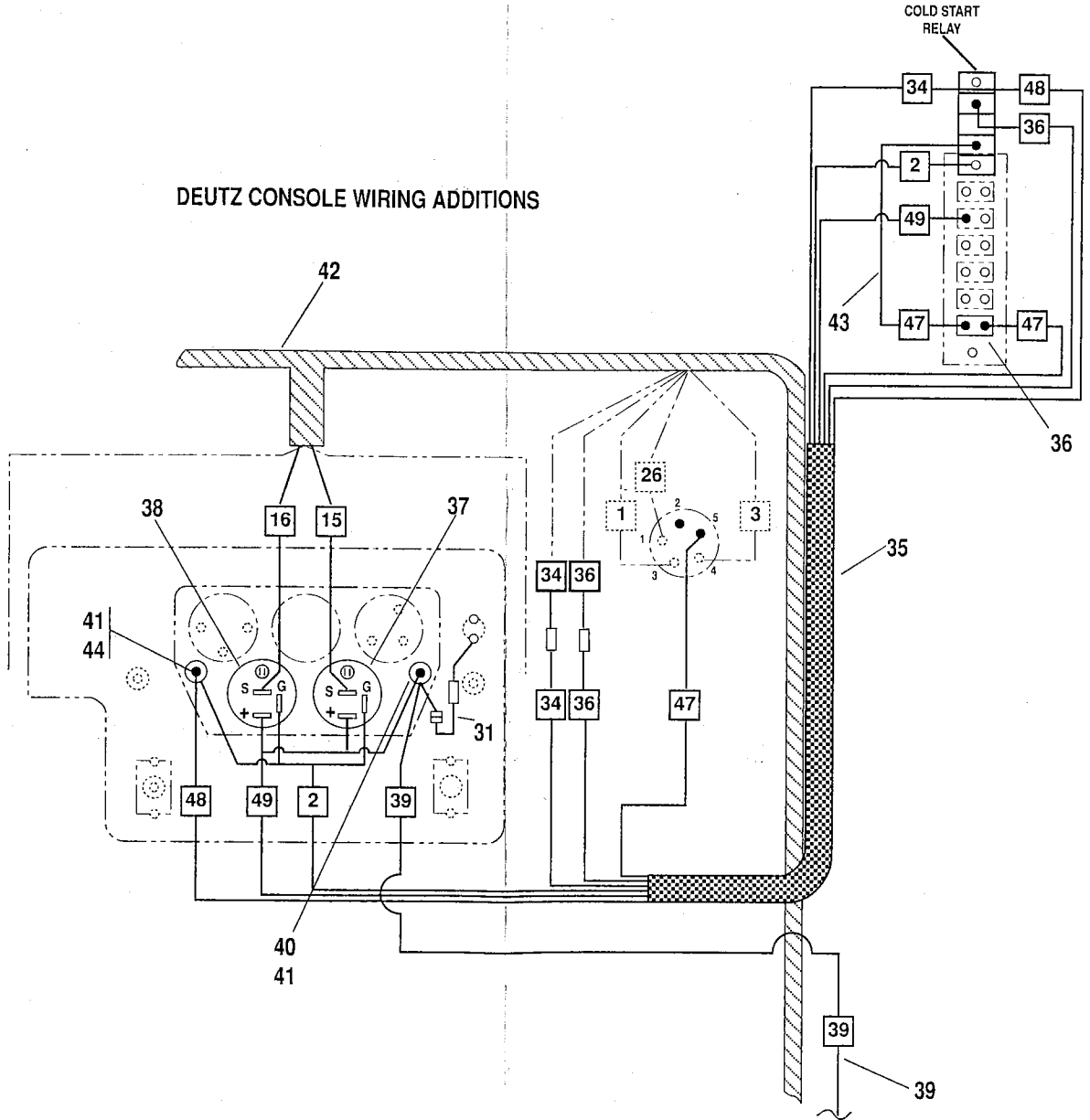
ELECTRICAL SYSTEM — CAB HARNESS

Item No.	Part Number	Qty.	Description
1	7089114	1	Harness, Cab (For Deutz only see item 42)
2	8033102	1	Motor, Windshield 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	8223001	1	Switch, Steer Select
12	8580309	1	Boot, Toggle Switch
13	8220050	2	Terminal, Male
14	8160413	1	Switch, Reverse
15	8033065	1	Washer Reservoir Assembly
16	8223436	1	Switch, Ignition (w / keys)
17	8223438	1	Key, Ignition (Not Shown)
18	8033078	1	Fan, Circulation
19	8229215	2	Circuit Breaker, 6 Amp (3 Required on Closed Cab)
20	7047041	1	Wire Assembly (Closed Cab Only)
21	8229218	1	Bracket, Circuit Breaker
22	8305004	2	Nut, Hex, 1/4-20
23	8307109	2	Washer, Flat 1/4
24	8229216	1	Circuit Breaker, 10 Amp
25	8229226	1	Circuit Breaker, 40 Amp
26	8223024	1	Switch Kit, Heater
27	7071342	AR	Socket, Light (2 on Funk - 1 on Clark)
28	8469012	AR	Lens, Red (2 on Funk - 1 on Clark)
29	8580314	1	Plug (Clark Trans. Only)
30	8220060	AR	Adapter (2 on Funk - 1 on Clark)
31	7084241	1	Diode Assembly (2 Required on Deutz Engines)
32	8223507	1	Switch, Brake Pressure
33	8551001	1	Nipple, 1/8 Closed
34	8307004	2	Lockwasher, 5/16
Items 35 Thru 44 Used On Deutz Engines Only			
35	7089162	1	Harness, Console (Deutz Engine Only)
36	8229229	1	Breaker, Circuit 25 Amp (Deutz Engine Only)
37	8462014	1	Gauge, Oil Temperature (Deutz Engine Only)
38	8460025	1	Gauge, Oil Pressure (Deutz Engine Only)
39	7075432	1	Wire Assembly (Deutz Engine Only)
40	8469032	1	Socket, Light Red (Deutz Engine Only)
41	8469033	2	Bulb (Deutz Engine Only)
42	7090362	1	Harness, Cab - Rework (Deutz Engine Only)
43	7092932	1	Wire Assembly (Deutz Engine Only)
44	8469034	1	Socket, Light - Amber (Deutz Engine Only)

ELECTRICAL SYSTEM CAB HARNESS

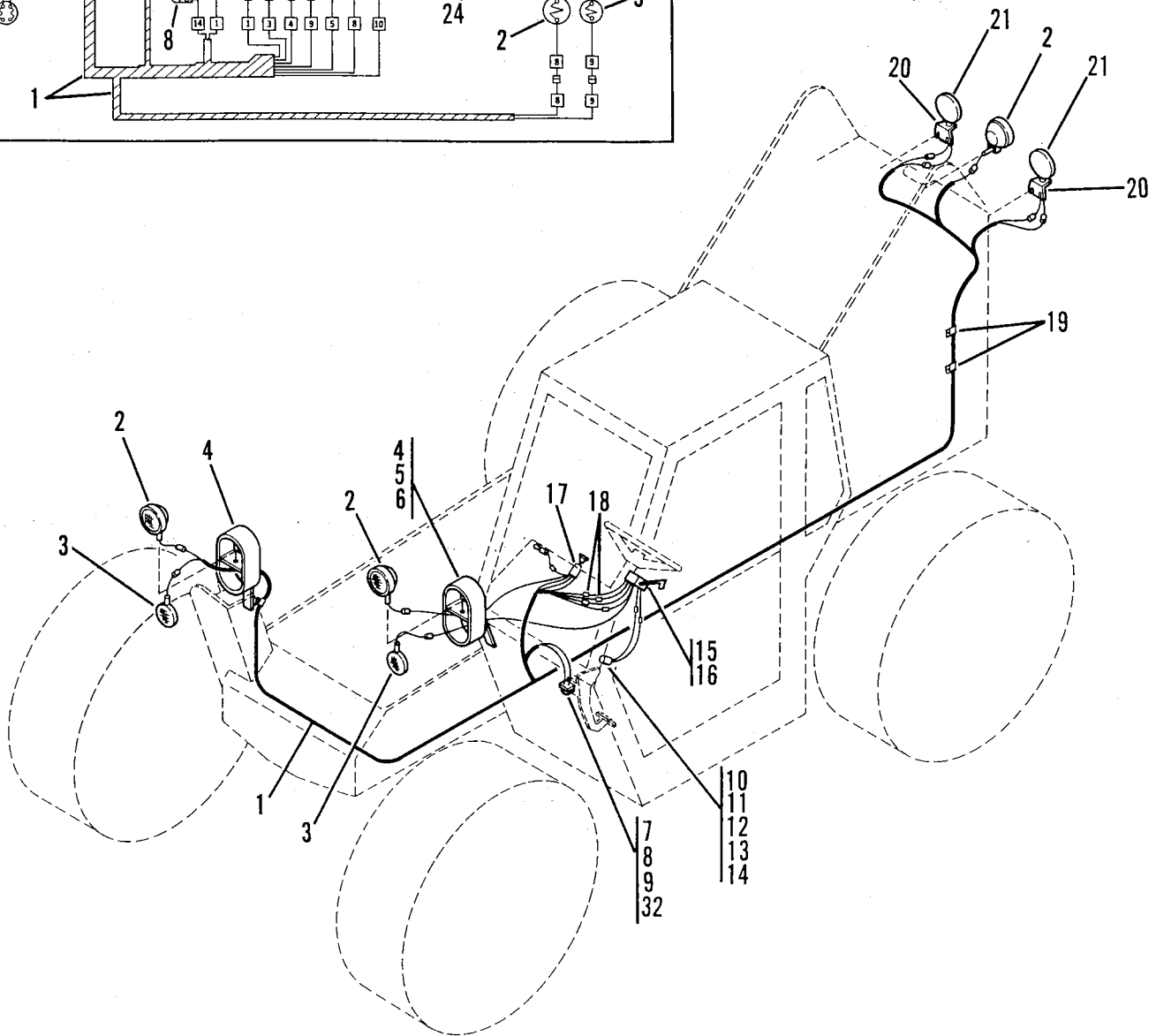
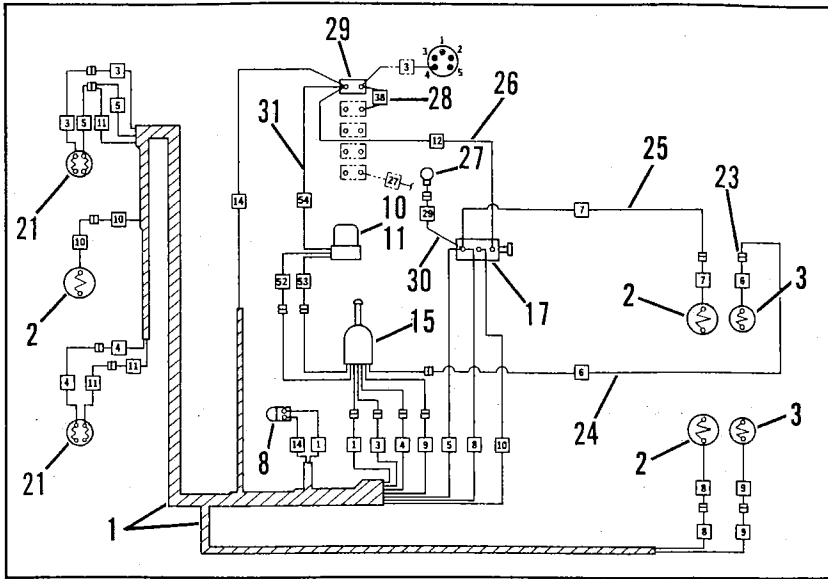


DEUTZ CONSOLE WIRING ADDITIONS



PB0280

LIGHTING SYSTEM — OPTIONAL

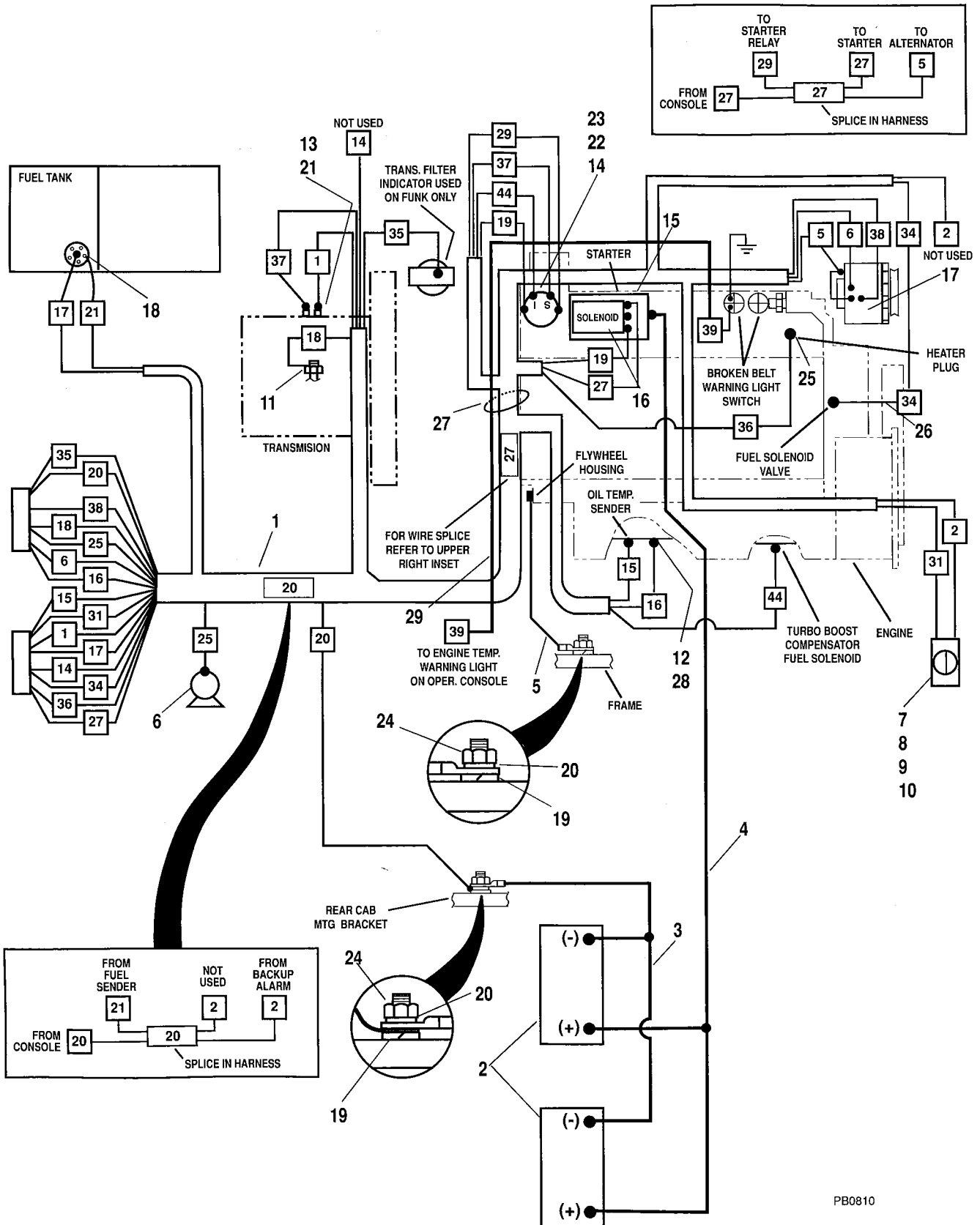


PA0692

LIGHTING SYSTEM — OPTIONAL

Item No.	Part Number	Qty.	Description
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, 3/8 NC
6	8303620	2	Screw, Hex Hd Cap 3/8NC 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, Rd 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	8221011-0120	1	Conduit, 1/2 ID x 12.0 (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	Breaker, 15 AMP
30	7085831	1	Wire Assembly
31	7087411	1	Wire Assembly
32	8305405	1	Nut, Jam, 3/8NC

ELECTRICAL SYSTEM — ENGINE HARNESS (DEUTZ)

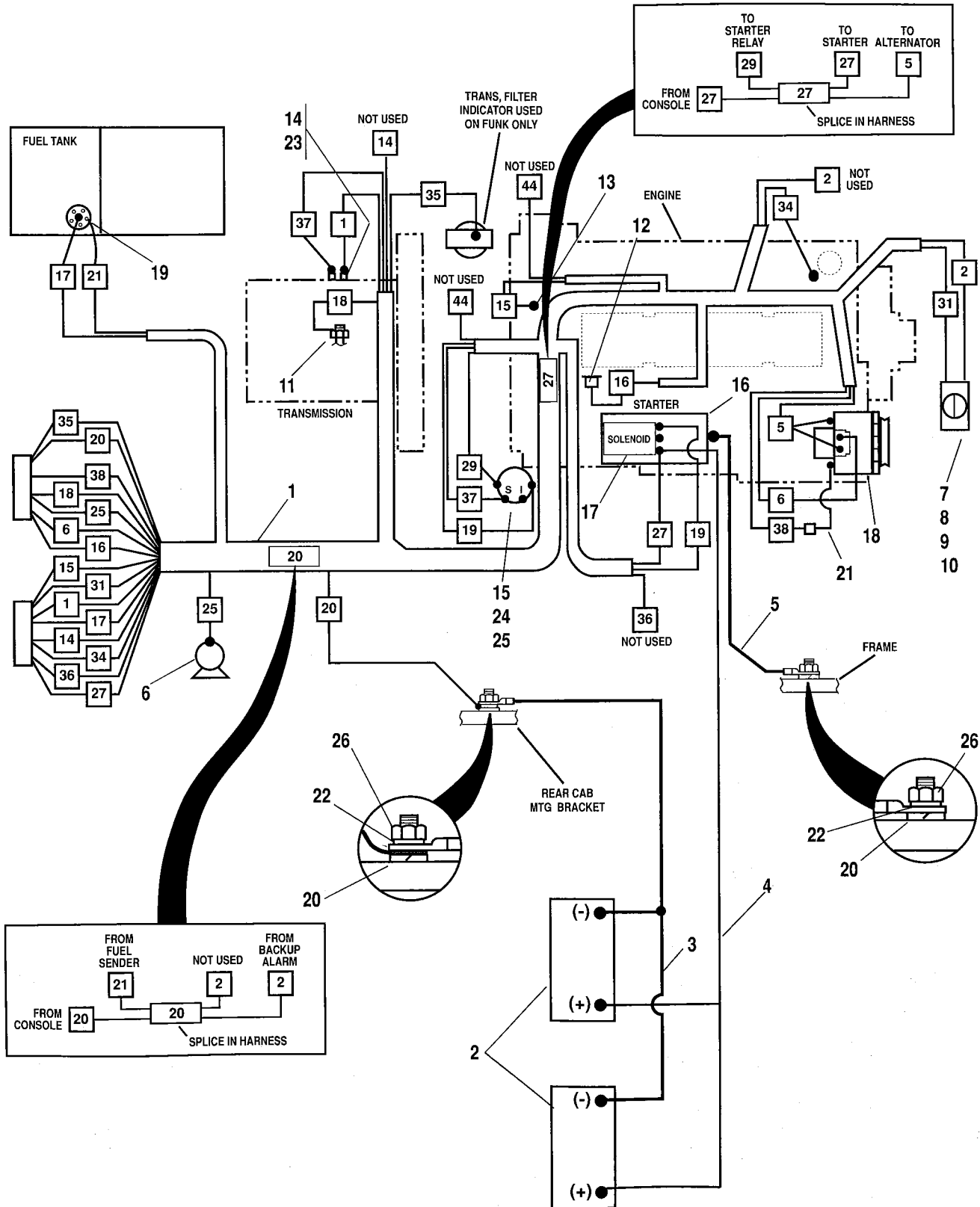


PB0810

ELECTRICAL SYSTEM — ENGINE HARNESS (DEUTZ)

Item No.	Part Number	Qty.	Description
1	7089124	1	Harness, Engine
2	8270014	2	Battery, 12 Volt
3	7084212	1	Cable, Battery-Negative
4	7089332	1	Cable, Battery-Positive
5	7068651	1	Cable, Starter Ground
6	8270602	1	Horn
7	8270617	1	Alarm, Backup
8	8303615	2	Screw, Cap, Hex Hd, 1/4-20 x 1-1/4 Gr 5
9	8305004	2	Nut, Hex 1/4-20
10	8307002	2	Lockwasher, 1/4
11	8223216	1	Switch, Transmission Oil Temperature
12	8468021	1	Sensor, Low Oil Pressure
13	8032677	1	Switch, Neutral Start (Clark Transmission Only)
14	CFF91001	1	Switch, Neutral Start (Funk Transmission Only)
15	8277065	1	Relay, Starter
16	8033444	1	Starter
17	8033445	1	Solenoid, Starter
18	8033443	1	Alternator
19	7088792	1	Sender, Fuel Level
20	8307005	2	Lockwasher, 3/8
21	8307106	2	Washer, Flat 5/16
22	8303987	2	Screw, Rd Hd Mach #8-32 x 1/4
23	8307003	1	Lockwasher, #10
24	8305003	1	Nut, Hex #10-32
25	8305006	2	Nut, Hex, 5/16-18
26	8220012	1	Terminal, Ring
27	7089201	1	Wire Assembly, Fuel Solenoid
28	8406201	1	Clamp
29	8277099	1	Adapter, Oil Pressure Sender
30	7075432	1	Wire Assembly

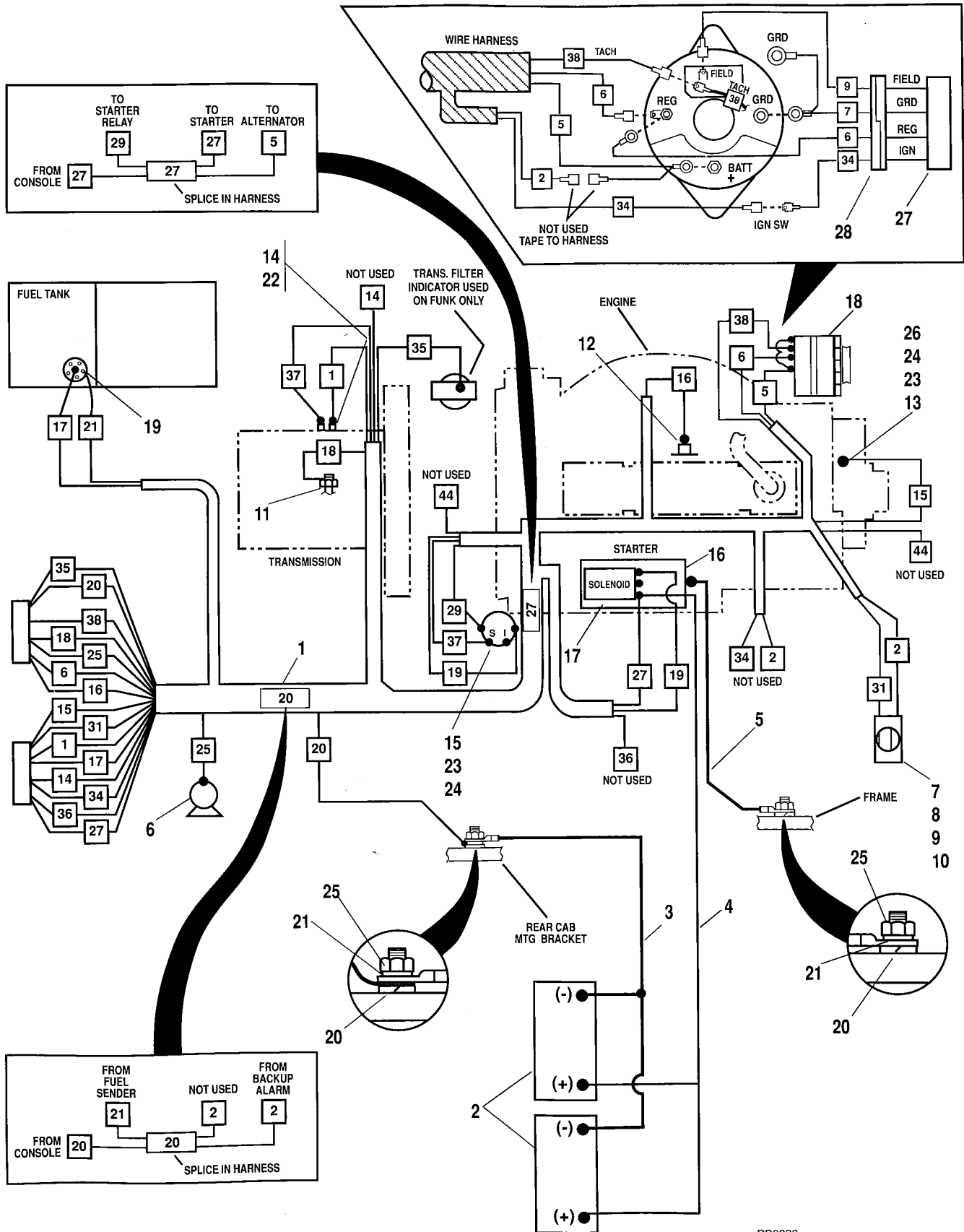
ELECTRICAL SYSTEM — ENGINE HARNESS (JOHN DEERE)



ELECTRICAL SYSTEM — ENGINE HARNESS (JOHN DEERE)

Item No.	Part Number	Qty.	Description
1	7089124	1	Harness, Engine
2	8270014	2	Battery, 12 Volt
3	7084212	1	Cable, Battery-Negative
4	7080192	1	Cable, Battery-Positive
5	7068651	1	Cable, Starter Ground
6	8270602	1	Horn
7	8270617	1	Alarm, Backup
8	8303615	2	Screw, Cap, Hex Hd, 1/4-20 x 1-1/4 Gr 5
9	8305004	2	Nut, Hex 1/4-20
10	8307002	2	Lockwasher, 1/4
11	8223216	1	Switch, Transmission Oil Temperature
12	8223510	1	Sensor, Low Oil Pressure
13	8223217	1	Switch, Water Temperature
14	8032677	1	Switch, Neutral Start (Clark Transmission Only)
	CFF91001	1	Switch, Neutral Start (Funk Transmission Only)
15	8277065	1	Relay, Starter
16	8033439	1	Starter
17	8033440	1	Solenoid, Starter
18	8033438	1	Alternator
19	7088792	1	Sender, Fuel Level
20	8307005	2	Lockwasher, 3/8
21	7082261	1	Wire Assembly
22	8307106	2	Washer, Flat 5/16
23	8303987	2	Screw, Rd Hd Mach #8-32 x 1/4
24	8307003	1	Lockwasher, #10
25	8305003	1	Nut, Hex #10-32
26	8305006	2	Nut, Hex, 5/16-18
27	8220012	1	Terminal, Ring #10 x 12 - 12W

ELECTRICAL SYSTEM — ENGINE HARNESS (FORD)

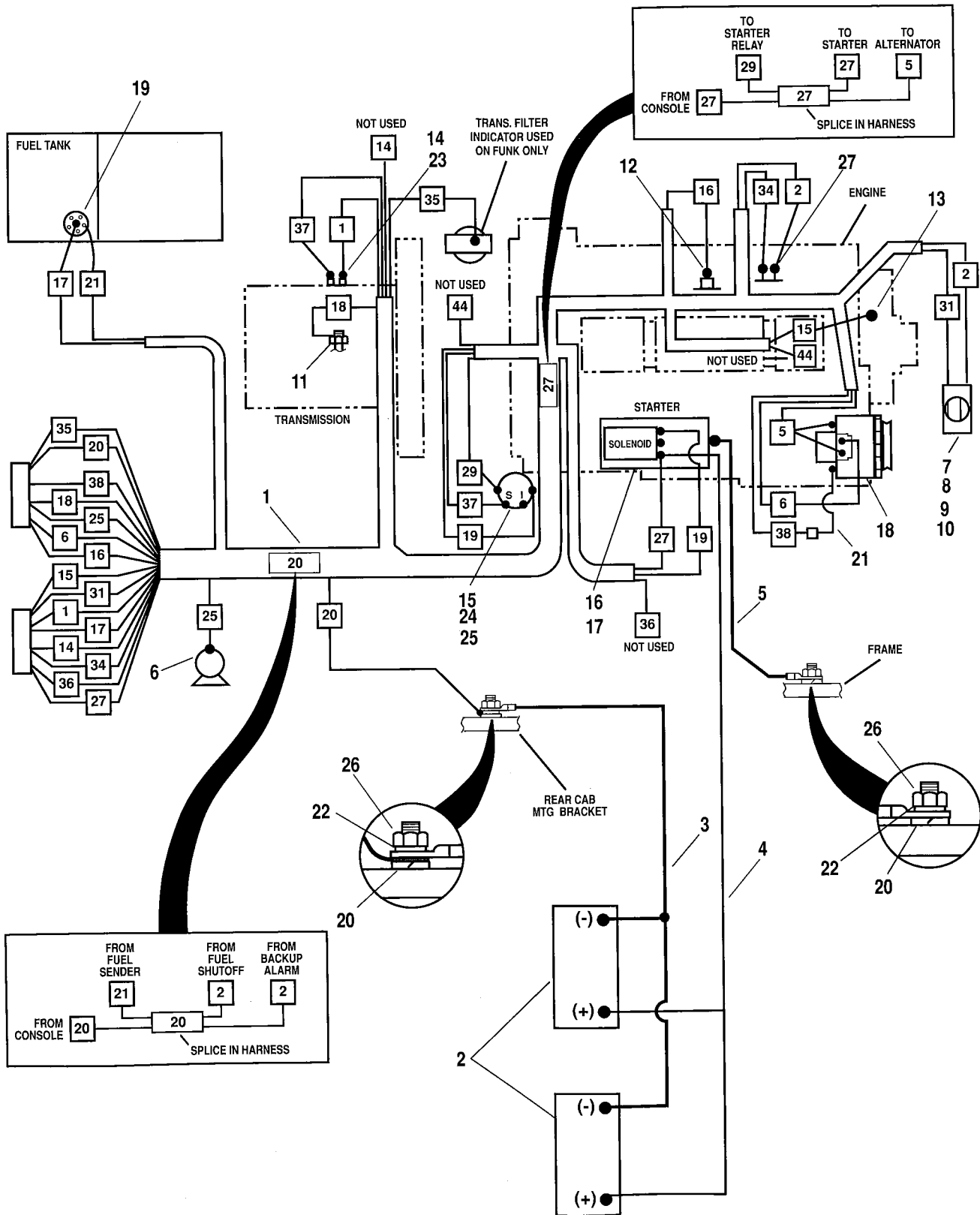


PB0830

ELECTRICAL SYSTEM — ENGINE HARNESS (FORD)

Item No.	Part Number	Qty.	Description
1	7089124	1	Harness, Engine
2	8270014	2	Battery, 12 Volt
3	7084212	1	Cable, Battery-Negative
4	7080192	1	Cable, Battery-Positive
5	7068651	1	Cable, Starter Ground
6	8270602	1	Horn
7	8270617	1	Alarm, Backup
8	8303615	2	Screw, Cap, Hex Hd, 1/4-20 x 1-1/4 Gr 5
9	8305004	2	Nut, Hex 1/4-20
10	8307002	2	Lockwasher, 1/4
11	8223216	1	Switch, Transmission Oil Temperature
12	8223510	1	Sensor, Low Oil Pressure
13	8223215	1	Switch, Water Temperature
14	8032677	1	Switch, Neutral Start (Clark Transmission Only)
	CFF91001	1	Switch, Neutral Start (Funk Transmission Only)
15	8277065	1	Relay, Starter
16	8033468	1	Starter
17	8033469	1	Solenoid, Starter
18	8270213	1	Alternator
19	7088792	1	Sender, Fuel Level
20	8307005	2	Lockwasher, 3/8
21	8307106	2	Washer, Flat 5/16
22	8303987	2	Screw, Rd Hd Mach #8-32 x 1/4
23	8307003	2	Lockwasher, #10
24	8305003	2	Nut, Hex #10-32
25	8305006	2	Nut, Hex, 5/16-18
26	8540076	1	Reducer, Bushing, 3/8 NPT x 1/8 NPT
27	8022023	1	Regulator, Voltage
28	7090182	1	Wire Assembly

ELECTRICAL SYSTEM — ENGINE HARNESS (PERKINS)



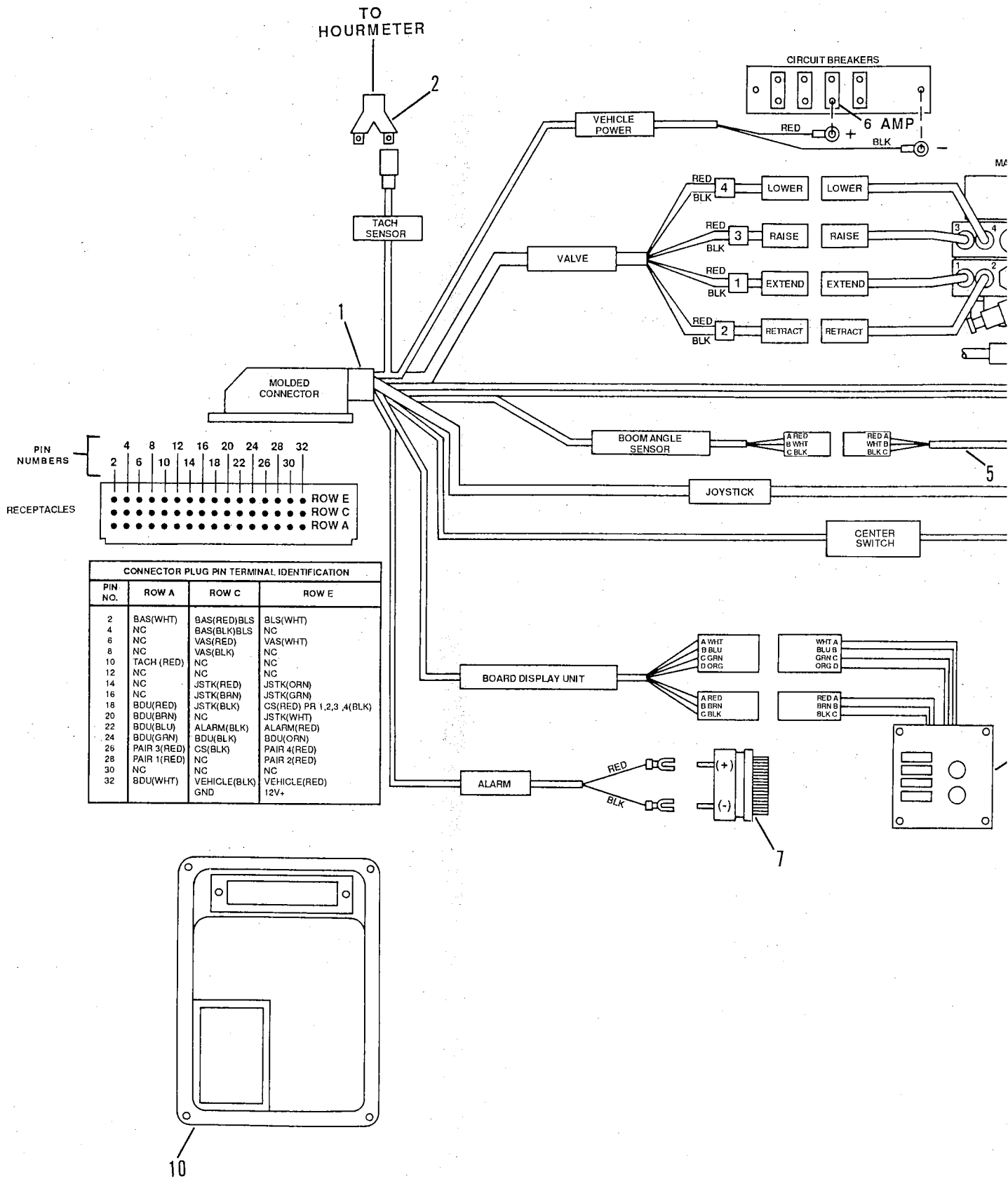
PB0840

ELECTRICAL SYSTEM — ENGINE HARNESS (PERKINS)

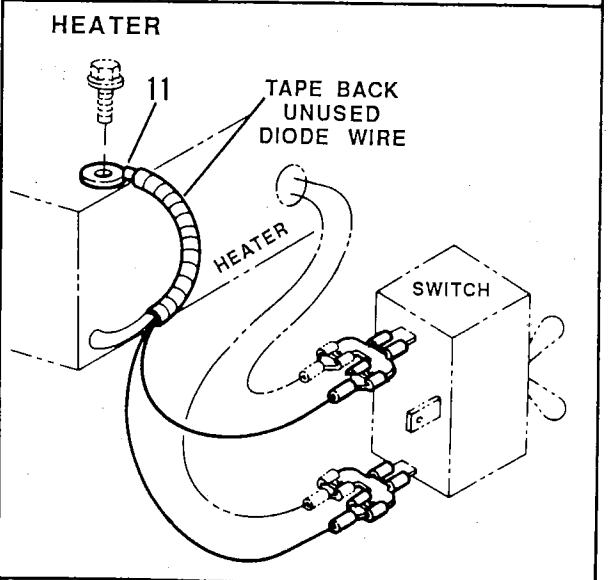
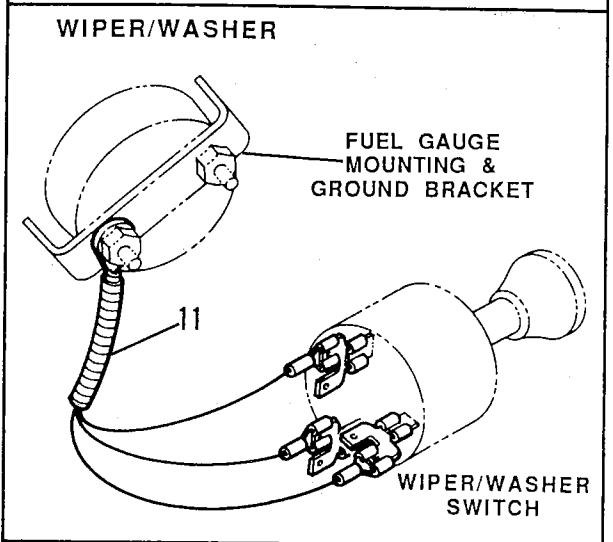
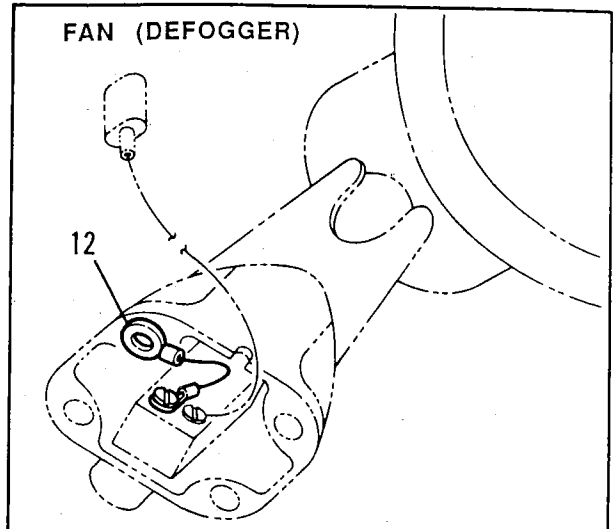
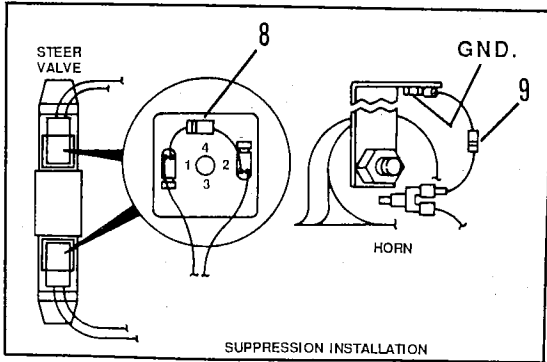
Item No.	Part Number	Qty.	Description
1	7089124	1	Harness, Engine
2	8270014	2	Battery, 12 Volt
3	7084212	1	Cable, Battery-Negative
4	7080192	1	Cable, Battery-Positive
5	7068651	1	Cable, Starter Ground
6	8270602	1	Horn
7	8270617	1	Alarm, Backup
8	8303615	2	Screw, Cap, Hex Hd, 1/4-20 x 1-1/4 Gr 5
9	8305004	2	Nut, Hex 1/4-20
10	8307002	2	Lockwasher 1/4
11	8223216	1	Switch, Transmission Oil Temperature
12	8223510	1	Sensor, Low Oil Pressure
13	8223217	1	Switch, Water Temperature
14	8032677	1	Switch, Neutral Start (Clark Transmission Only)
	CFF91001	1	Switch, Neutral Start (Funk Transmission Only)
15	8277065	1	Relay, Starter
16	8270411	1	Starter
17	8270412	1	Solenoid, Starter
18	8270219	1	Alternator
19	7088792	1	Sender, Fuel Level
20	8307005	2	Lockwasher 3/8
21	7082261	1	Wire Assembly
22	8307106	2	Washer, Flat 5/16
23	8303987	2	Screw, Rd Hd Mach #8-32 x 1/4
24	8307003	1	Lockwasher #10
25	8305003	1	Nut, Hex #10-32
26	8305006	2	Nut, Hex, 5/16-18
27	8274401	1	Solenoid, Fuel Run

TLC WIRING

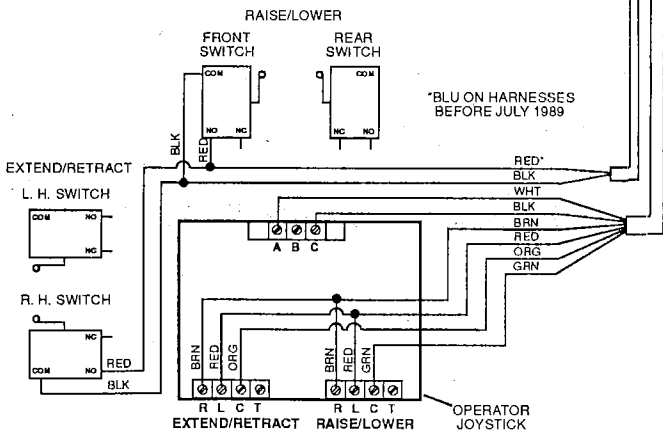
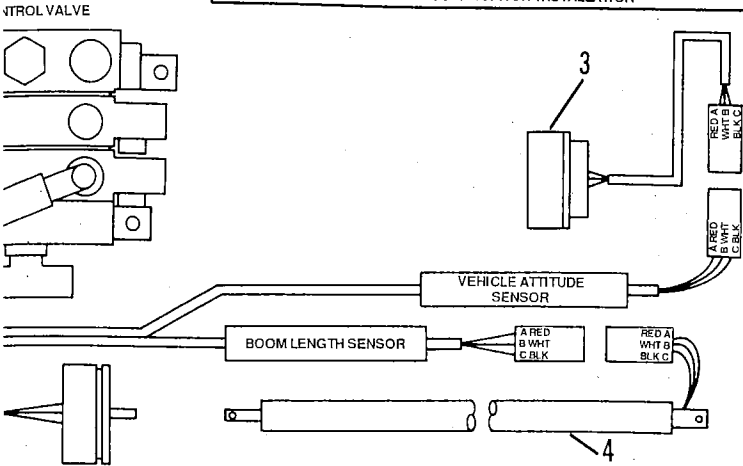
Item No.	Part Number	Qty.	Description
1	7086772	1	Harness, Wire
2	8220060	1	Adapter
3	7088232	1	Sensor, Vehicle Attitude
4	7088212	1	Sensor, Boom Length
5	7088222	1	Sensor, Boom Angle
6	7088122	1	Display Unit
7	7088202	1	Horn, Signal
8	7090051	2	Diode Assembly (See Kits)
9	7090041	1	Diode Assembly (See Kits)
10	7090072	1	Controller, Electronic
11	7090191	2	Diode Assembly (See Kits)
12	7090901	1	Diode Assembly (See Kits)
 <u>KITS</u> 			
	7090141	1	Kit, TLC Diodes (Includes Items 8 & 9)
	7090922	1	Kit, TLC Diodes w/Optional Enclosed Cab Only (Includes Items 11 & 12)
	7091871	1	Kit, Test Cable for Pulsar Solenoid Valve
	7091881	1	Kit, Test Cable for TLC Sensors



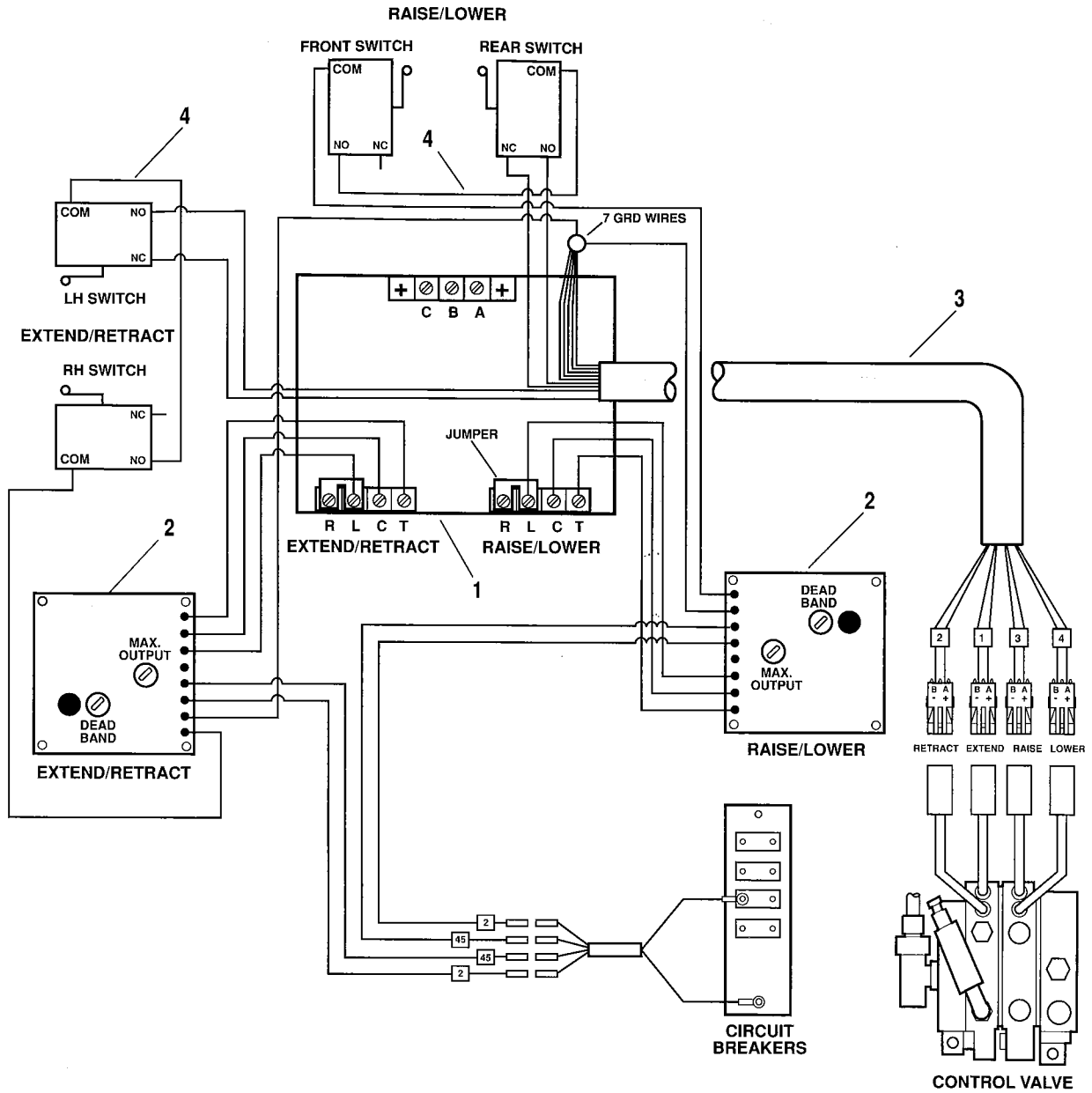
TLC WIRING



SUPPRESSION INSTALLATIONS FOR OPTIONAL ENCLOSED CAB ONLY



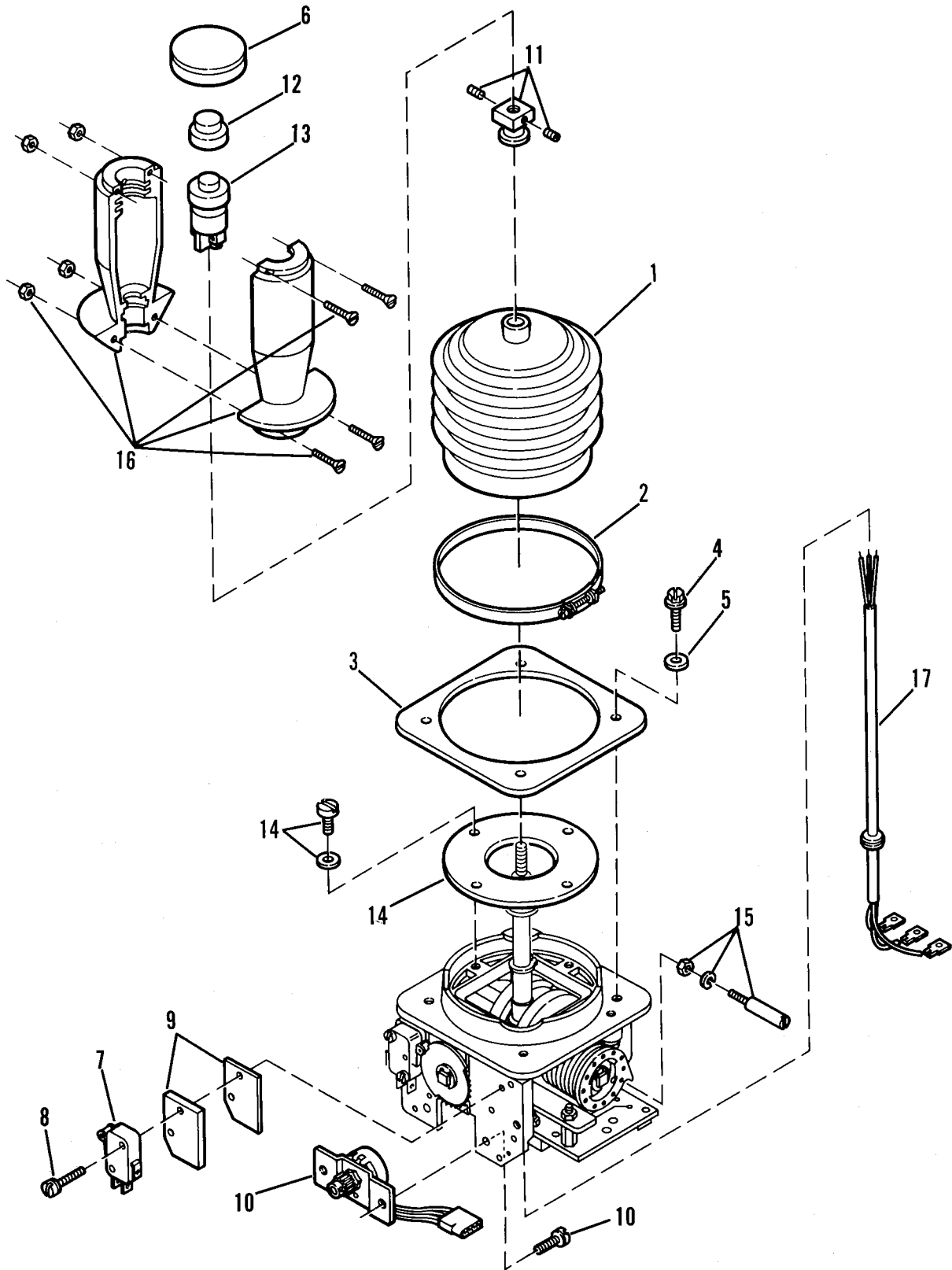
ELECTRONIC JOYSTICK WIRING w/o TLC



PA1122

Item No.	Part Number	Qty.	Description
1	7087383	1	Electronic Joystick Assembly (Includes Items 1 thru 4)
	8224016	1	Joystick, Electronic 50°
	7086762	2	Module, Driver
	7086752	1	Harness, Wiring
4	7087361	2	Wire Assembly
			KITS
	7091871	1	Kit, Test Cable For Pulsar Solenoid Valve

ELECTRONIC JOYSTICK ASSEMBLY

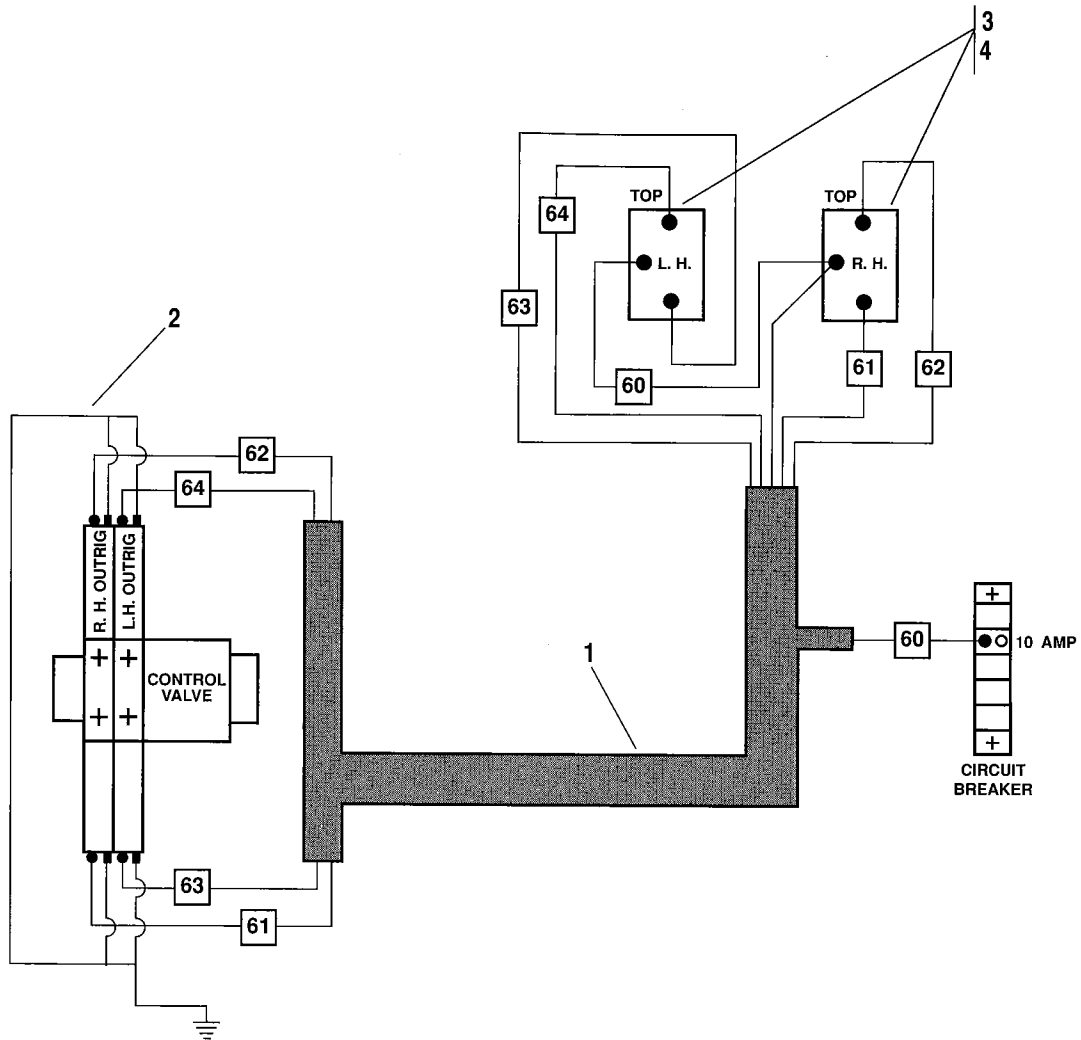


PA1121

ELECTRONIC JOYSTICK ASSEMBLY

Item No.	Part Number	Qty.	Description
	8224016	1	Joystick Assembly (Includes Items 1 thru 17)
1	8033389	1	Boot
2	8033390	1	Clamp Boot
3	8033391	1	Gasket, Mounting
4	8033392	4	Screw, M 5 x 10
5	8033393	4	Washer, Nylon #10
6	8033394	1	Boot, Pushbutton
7	8033395	4	Microswitch V3L - 139 - D8
8	8033396	8	Screw #4 - 40 x 7/8
9	8033397	4	Insulator Kit
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 & Lockwasher
16	8033404	1	Handle Section w/Gaskets (Both Halves)
17	8033405	1	Wire, 3 Conductor, 24 " Long

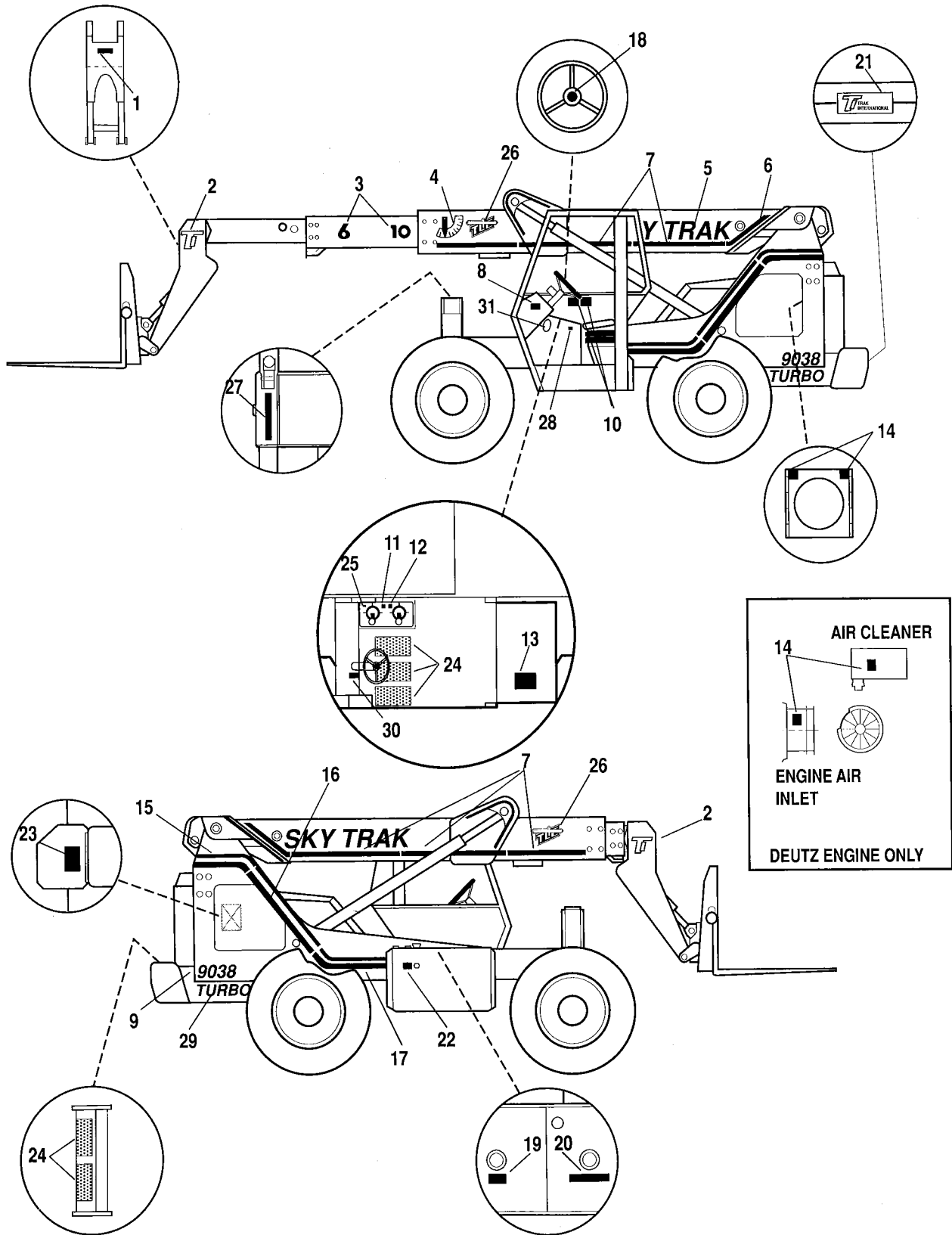
OUTRIGGER WIRING



PB 0851

Item No.	Part Number	Qty.	Description
1	7089662	1	Harness, Wiring
2	7089671	1	Wire Ground
3	8223002	2	Switch, Toggle
4	8580309	2	Boot, Toggle Switch

DECALS AND PAINT



PB 0861

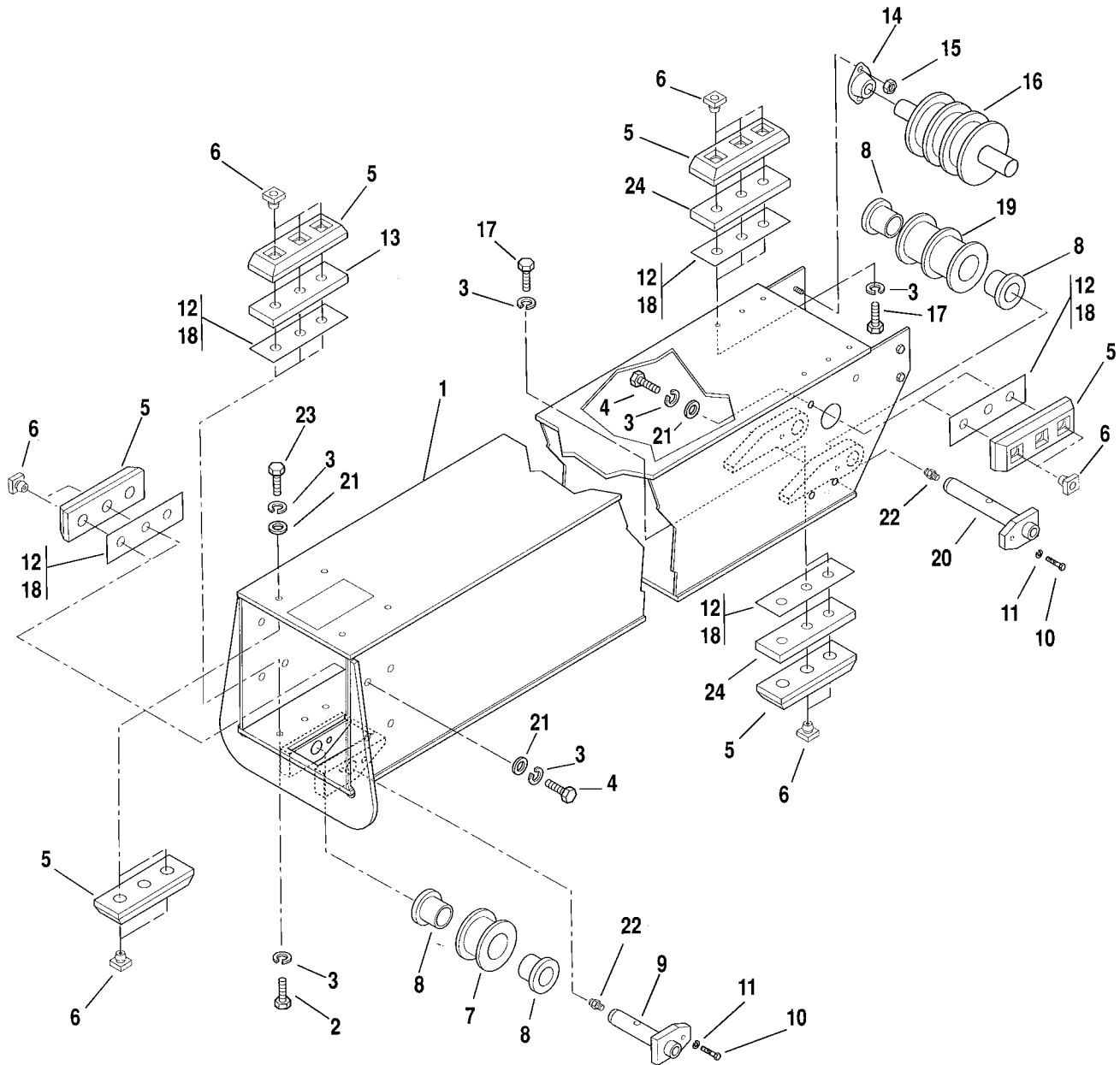
DECALS AND PAINT

Item No.	Part Number	Qty.	Description
1	4106551	1	Decal, Handle Mat'l Only
2	4106781	2	Decal, "T I" Logo
3	4106092	1	Decal, Boom, Extend Numbers
4	4105262	1	Decal, Boom Angle
5	4105841	2	Decal, Skytrak
6	4106512	2	Decal, Elbow Boom Stripe
7	4105861	6	Decal, Front Boom Stripe
8	4103992	1	Decal, Electrocution
9	4105951	2	Decal, "9038" Numbers
10	4105543	1	Chart, Load Rating, w/Std. Counterweight
	4105323	1	Chart, Load Rating, w/Outriggers
	4106893	1	Chart, Load Rating, w/8' Mast
11	4106101	1	Decal, Boom Control
12	4106111	1	Decal, Frame / Fork
13	4105392	1	Decal, Jump Start
14	4105501	2	Decal, Warning Fan
15	4106833	2	Decal, Upper Stripe
16	4106492	2	Decal, Side Stripe
17	4106823	2	Decal, Lower Stripe
18	4106681	1	Decal, Steering Wheel Logo
19	4100181	1	Decal, Hydraulic Oil
20	6603622	1	Decal, Diesel Fuel
21	4106872	1	Decal, TRAK Logo
22	4104291	1	Decal, Hydraulic Oil Level
23	4106863	1	Decal, "9038" Lube Chart
24	7010491	5	Safety Walk, 6 x 12
25	4106741	1	Decal, TLC Thumbswitch (w/TLC option only)
26	4106852	2	Decal, TLC Logo (w/TLC option only)
27	4105961	1	Decal, Koehring Name
28	4105061	1	Decal, Brake Warning
29	4105831	2	Decal, Turbo
30	4106801	1	Decal, Park Lock
31	4102321	1	Ring, Key
	8528033	1 gal	Paint, Orange, Hi-Solids Alkyd (Service Repaint)
	8528034	1 can	Paint, Orange, Hi-Solids Alkyd (16 oz spray - touchup)
	8528036	1 can	Paint, Black, Gloss Enamel "Transport" (16 oz spray - touchup)
	8528040	1 can	Paint, White, Gloss Enamel (16 oz spray - touchup)
			<u>KITS</u>
	7091961	AR	Kit, Complete Machine Decal

OUTER BOOM

Item No.	Part Number	Qty.	Description
1	7087724	1	Outer Boom
2	8642234	4	Ring, Snap
3	8305012	2	Nut, Lock, 1/2-13
4	7075651	4	Pin, Rod End, Slave Cylinder & Hoist Cylinder
5	8303770	4	Screw, Cap, Hex Hd, 3/8-16 x 2-3/4
6	8305906	4	Nut, Retaining, 5/16-18
7	7088003	1	Cover, Rear Boom
8	8307106	4	Washer, Flat, 5/16
9	8303679	4	Screw, Cap, Hex Hd, 5/16-18 x 3/4
10	8307910	2	Washer, Spacer, 1/16
11	8307911	2	Washer, Spacer, 1/8
12	8303655	2	Screw, Cap, Hex Hd, 5/8-11 x 4-1/2
13	8305643	2	Nut, Lock, 5/8-11
14	7077432	2	Pin, Boom Pivot
15	7063922	1	Pin, Base End, Extend Cylinder
16	8124126	3	Pin
17	7063472	3	Clevis, Chain
18	8307104	3	Washer, Flat, 3/4
19	8305646	3	Nut, Lock, 3/4-16
20	7063912	1	Pin, Rod End, Extend Cylinder
21	8305645	4	Nut, Lock, 3/8-16
22	7082362	AR	Shim, Wear Pad, #10 Ga
23	8307005	18	Lockwasher, 3/8
24	8037204	8	Washer, Flat, 3/8
25	7082332	4	Spacer, Wear Pad - 1"
26	7079572	8	Wear Pad
27	7082311	18	Insert, Wear Pad
28	8303681	8	Screw, Cap, Hex Hd, 3/8-16 x 3/4
29	8127002	2	Chain
30	8642237	6	Ring, Retaining
31	8305647	1	Locknut
32	7075611	1	Pointer
33	8305018	1	Nut, Standard 3/4-16
34	7082342	AR	Shim, Wear Pad #14 Ga
35	8303622	10	Screw, Hex Hd Cap, 3/8-16 x 2
36	7080731	2	Bolt, Tensioner
37	7088111	1	Bracket, Tensioner

INTERMEDIATE BOOM

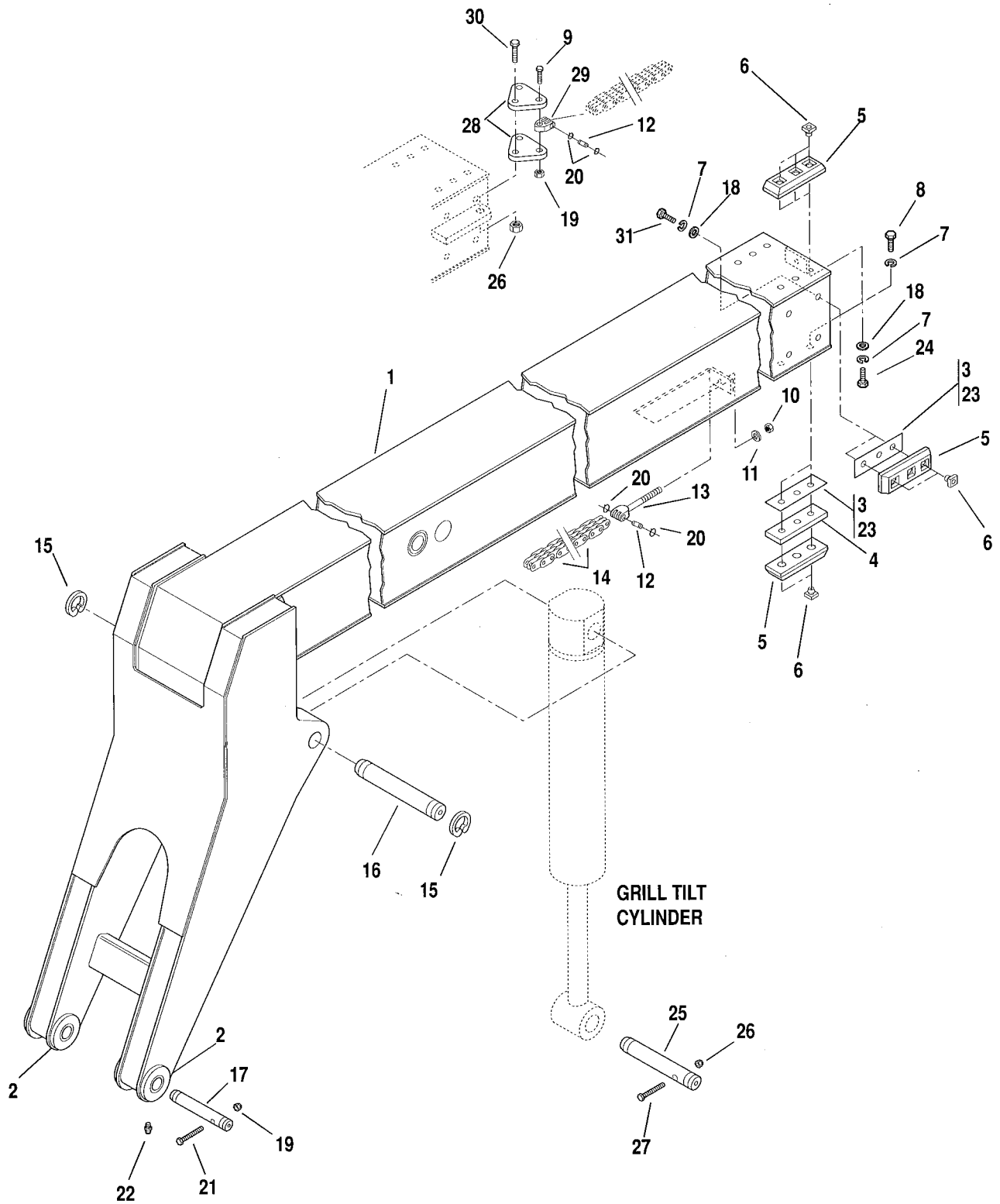


PB 0881

INTERMEDIATE BOOM

Item No.	Part Number	Qty.	Description
1	7087834	1	Intermediate Boom
2	8303679	6	Screw, Cap, Hex Hd, 3/8-16 x 1-3/4
3	8307005	32	Lockwasher, 3/8
4	8303681	12	Screw, Cap, Hex Hd, 3/8-16 x 3/4
5	7079572	14	Wear Pad
6	7082311	32	Insert, Wear Pad
7	7063462	1	Sheave, Retract Chain
8	5906392	4	Bushing, Flange
9	7063422	1	Pin, Chain Sheave
10	8303624	2	Screw, Cap, Hex Hd, 1/2-13 x 1.0
11	8307007	2	Lockwasher, 1/2
12	7082362	AR	Shim, Wear Pad, #10 Ga
13	7088831	2	Spacer, Wear Pad - 3/4"
14	8065213	2	Bearing
15	8305626	4	Locknut, 5/16-18
16	7087892	1	Pulley, Hose
17	8303622	10	Screw, Cap, Hex Hd, 3/8-16 x 2
18	7082342	AR	Shim, Wear Pad, #14 Ga
19	7063452	1	Sheave, Extend Chain
20	7063432	1	Pin, Chain Sheave
21	8307204	16	Washer, Flat, 3/8
22	8520003	2	Fitting, Lube
23	8303620	4	Screw, Hex Hd Cap 3/8 - 16 x 1
24	7082332	4	Spacer, Wear Pad -1"

INNER BOOM

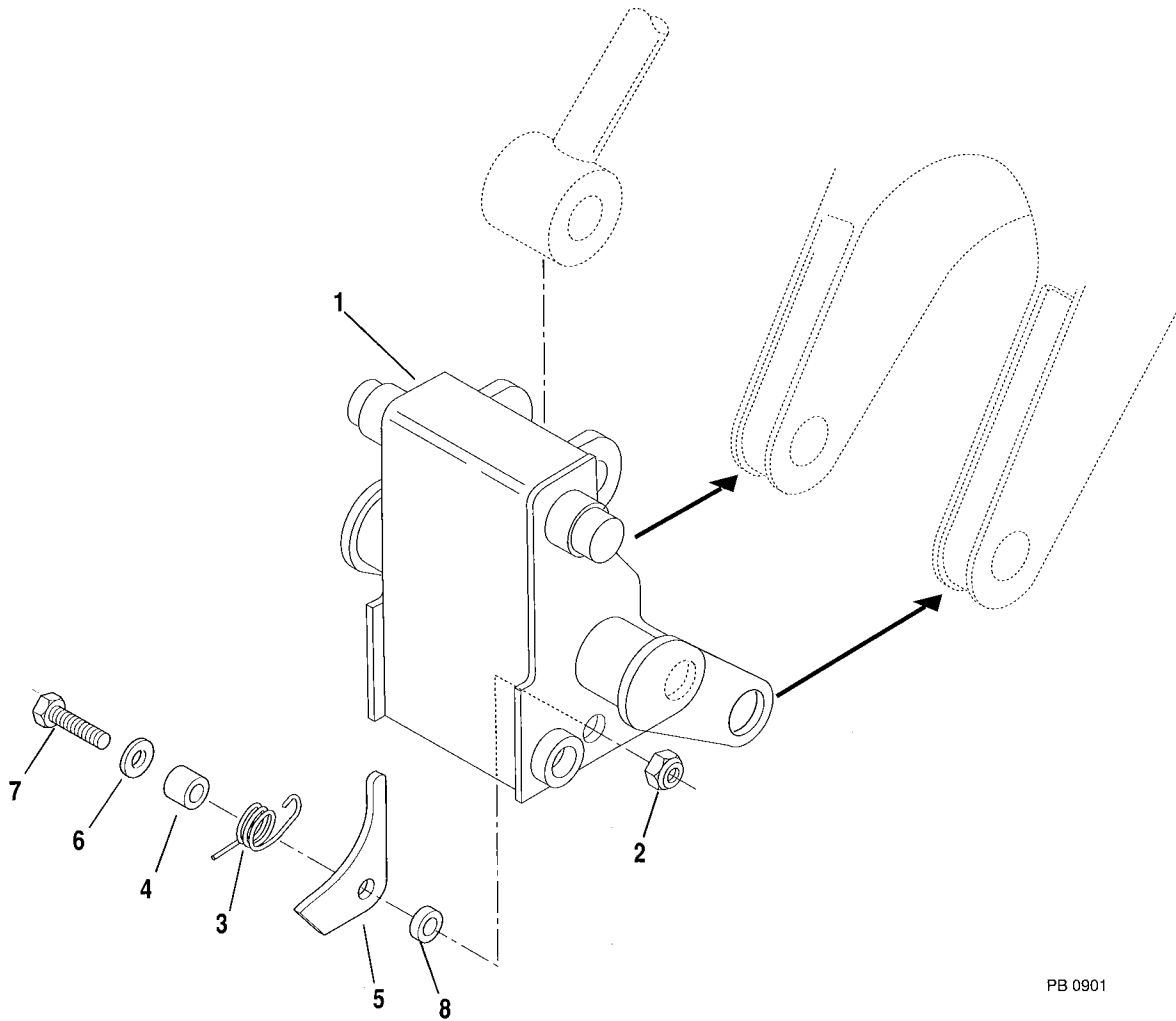


PB 0891

INNER BOOM

Item No.	Part Number	Qty.	Description
1	7086314	1	Inner Boom (Includes Item 2)
2	7077222	4	Bushing
3	7082362	AR	Shim, Wear Pad, #10 Ga
4	7088831	2	Spacer, Wear Pad - 3/4"
5	7079572	6	Wear Pad
6	7082311	14	Insert, Wear Pad
7	8307005	14	Lockwasher, 3/8
8	8303679	4	Screw, Cap, Hex Hd, 3/8-16 x 1-3/4
9	8310019	2	Bolt, Socket Hd Shoulder, 3/8-16 x 1-1/2
10	8305646	1	Locknut, 3/4-16 ESNA
11	8307104	1	Washer, Flat, 3/4
12	8124126	3	Pin
13	7063472	1	Clevis, Chain
14	8127002	1	Chain
15	8642234	2	Ring, Retaining
16	7086692	1	Pin, Base End, Grille Tilt Cylinder
17	7086351	2	Pin, Pivot, Quick Attach
18	8307204	10	Washer, Flat, 3/8
19	8305645	4	Locknut, 3/8-16
20	8642237	6	Ring, Retaining
21	8303770	2	Screw, Hex Hd Cap, 3/8-16 x 2-3/4
22	8520013	2	Fitting, Lube 1/8 Self Tap
23	7082342	AR	Shim, Wear Pad #14 Ga
24	8303620	4	Screw, Hex Hd Cap, 3/8-16 x 1
25	7086361	1	Pin, Grille Tilt Cylinder Rod End
26	8305644	2	Nut, Lock 1/2-13
27	8303683	1	Screw, Hex Hd Cap, 1/2-13 x 3-1/2
28	7089781	2	Yoke, Chain
29	7063482	2	Clevis, Chain
30	8310020	1	Screw, Socket Hd, 1/2-13 x 1-1/2
31	8303681	4	Screw, Hex Hd Cap, 3/8-16 x 3/4

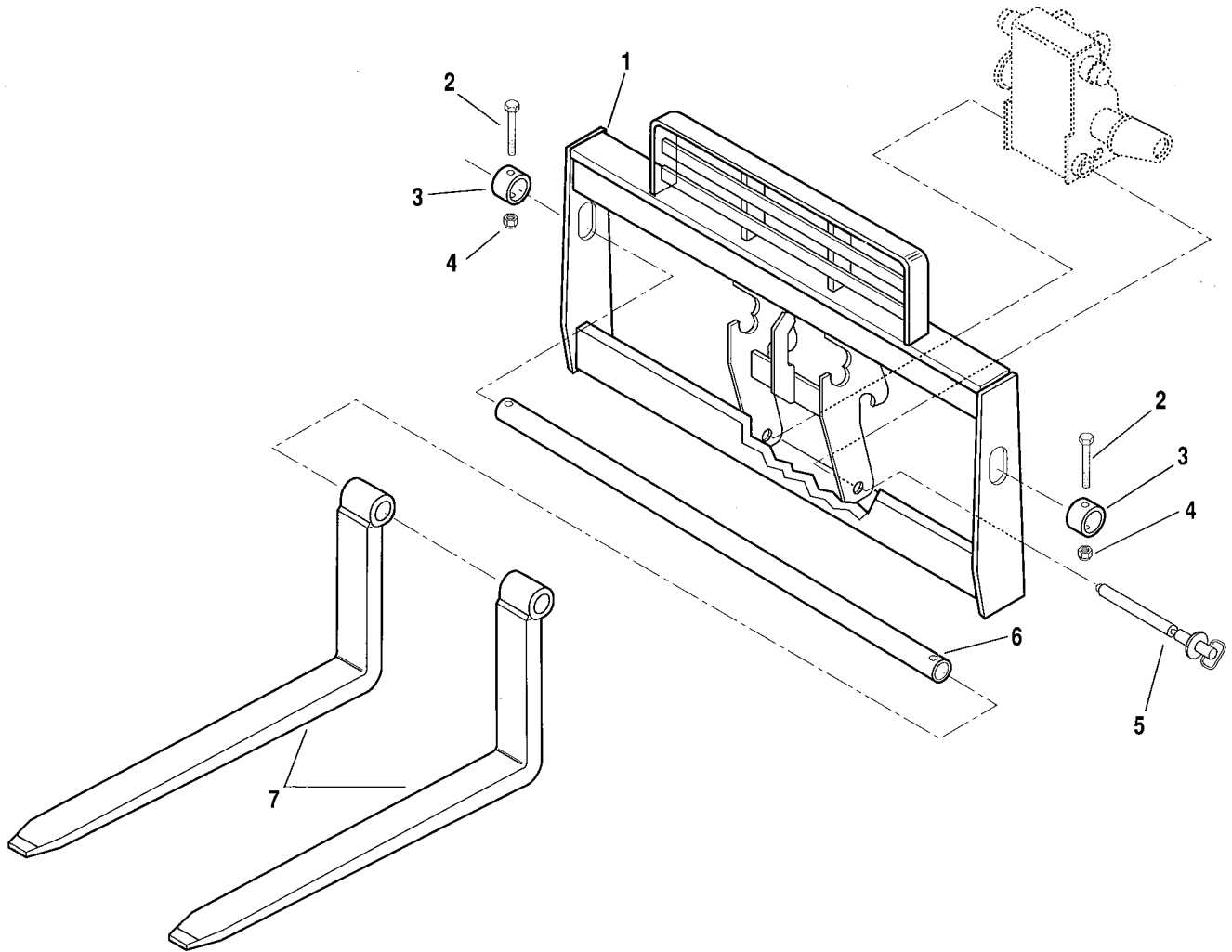
QUICK ATTACH



PB 0901

Item No.	Part Number	Qty.	Description
1	7086204	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 3/4
7	8303640	1	Screw, Cap, Hex Hd, 3/4-10 x 3-1/4
8	7087781	1	Spacer

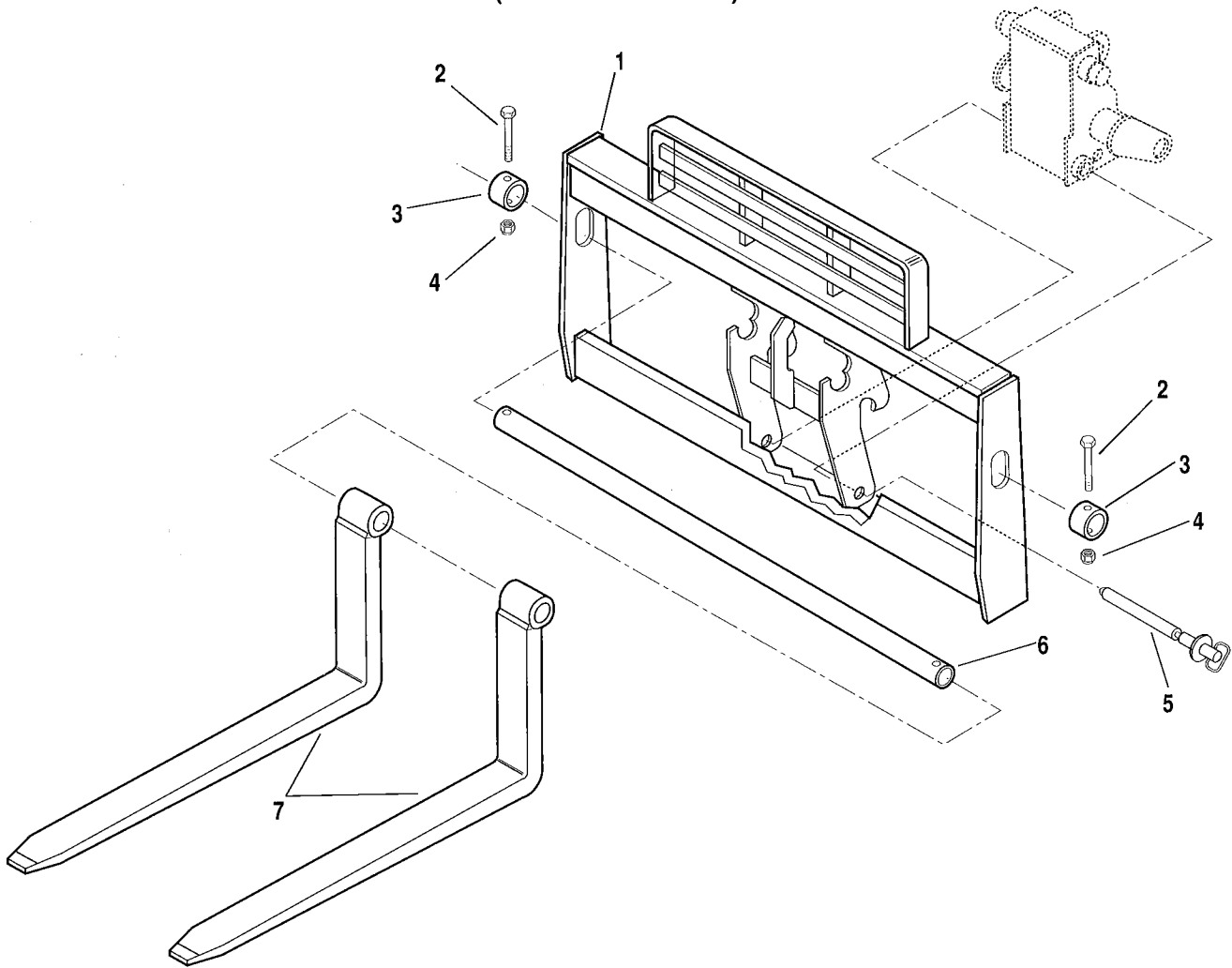
CARRIAGE 48"



PB0910

Item No.	Part Number	Qty.	Description
1	7083054	1	Carriage, 48 inch
2	8303634	2	Screw, Cap Hex Hd, 5/8-11 x 4
3	7086471	2	Hub, Lock
4	8305643	2	Locknut, 5/8-11
5	7087002	1	Pin, Lock
6	7083912	1	Shaft
7	7090063	2	Fork, Pallet 48 x 4
	7082703	2	Fork, Lumber 60 x 7 (Not Shown)
	7085073	6	Fork, Block (Not Shown)

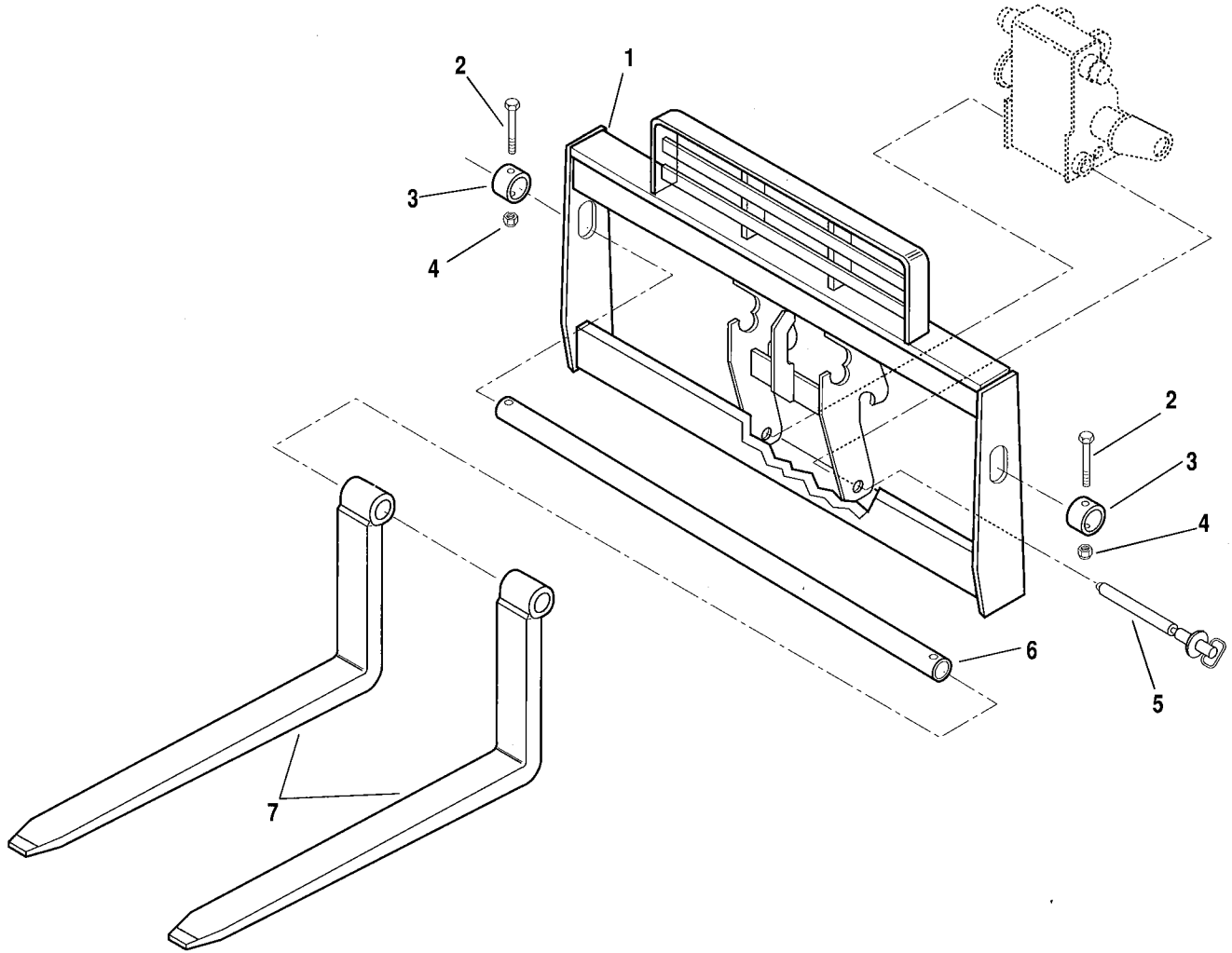
CARRIAGE 60" (OPTIONAL)



PB0910

Item No.	Part Number	Qty.	Description
1	7086304	1	Carriage, 60 inch
2	8303634	2	Screw, Cap Hex Hd, 5/8-11 x 4
3	7086471	2	Hub, Lock
4	8305643	2	Locknut, 5/8-11
5	7087002	1	Pin, Lock
6	7084972	1	Shaft
7	7090063	2	Fork, Pallet 48 x 4
	7082703	2	Fork, Lumber 60 x 7 (Not Shown)
	7085073	6	Fork, Block (Not Shown)

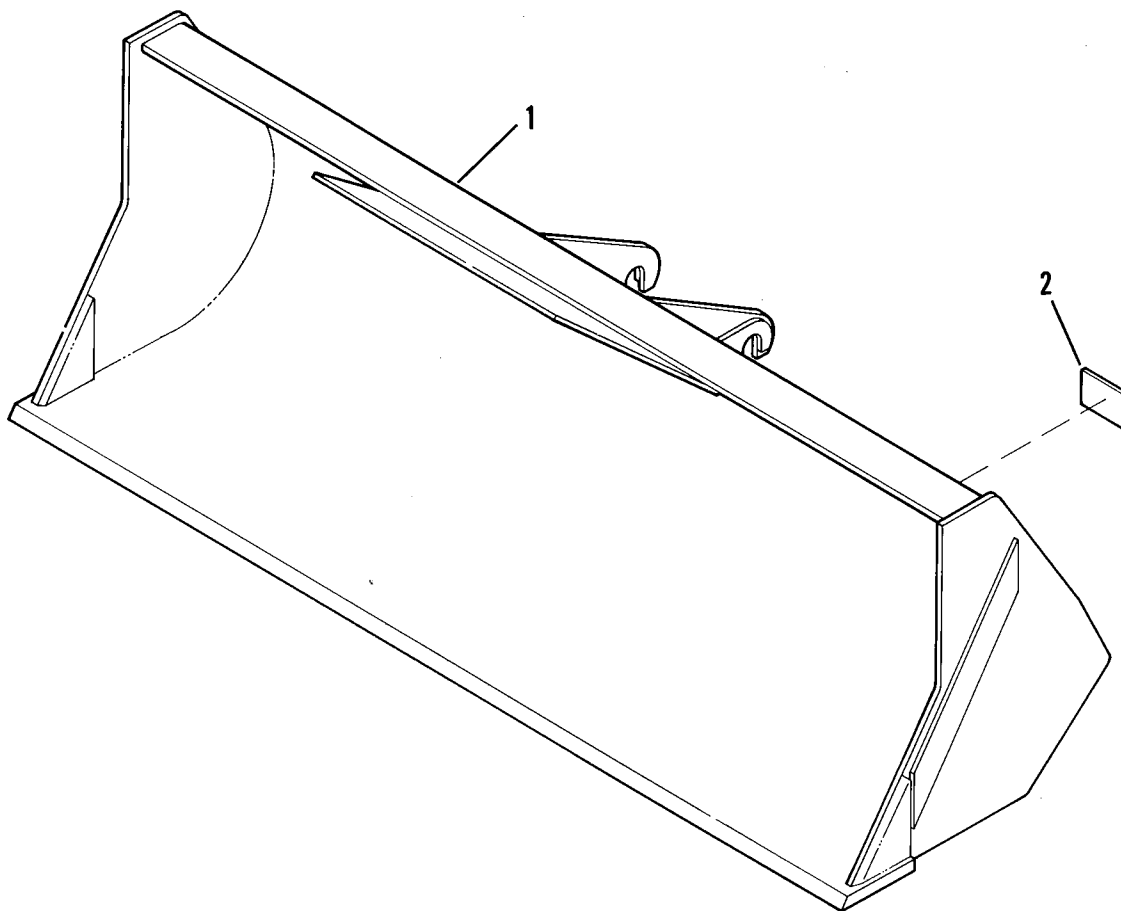
CARRIAGE 72" (OPTIONAL)



PB0910

Item No.	Part Number	Qty.	Description
1	7086794	1	Carriage, 72 inch
2	8303634	2	Screw, Cap Hex Hd, 5/8-11 x 4
3	7086471	2	Hub, Lock
4	8305643	2	Locknut, 5/8-11
5	7087002	1	Pin, Lock
6	7084942	1	Shaft
7	7090063	2	Fork, Pallet 48 x 4
	7082703	2	Fork, Lumber 60 x 7 (Not Shown)
	7085073	6	Fork, Block (Not Shown)

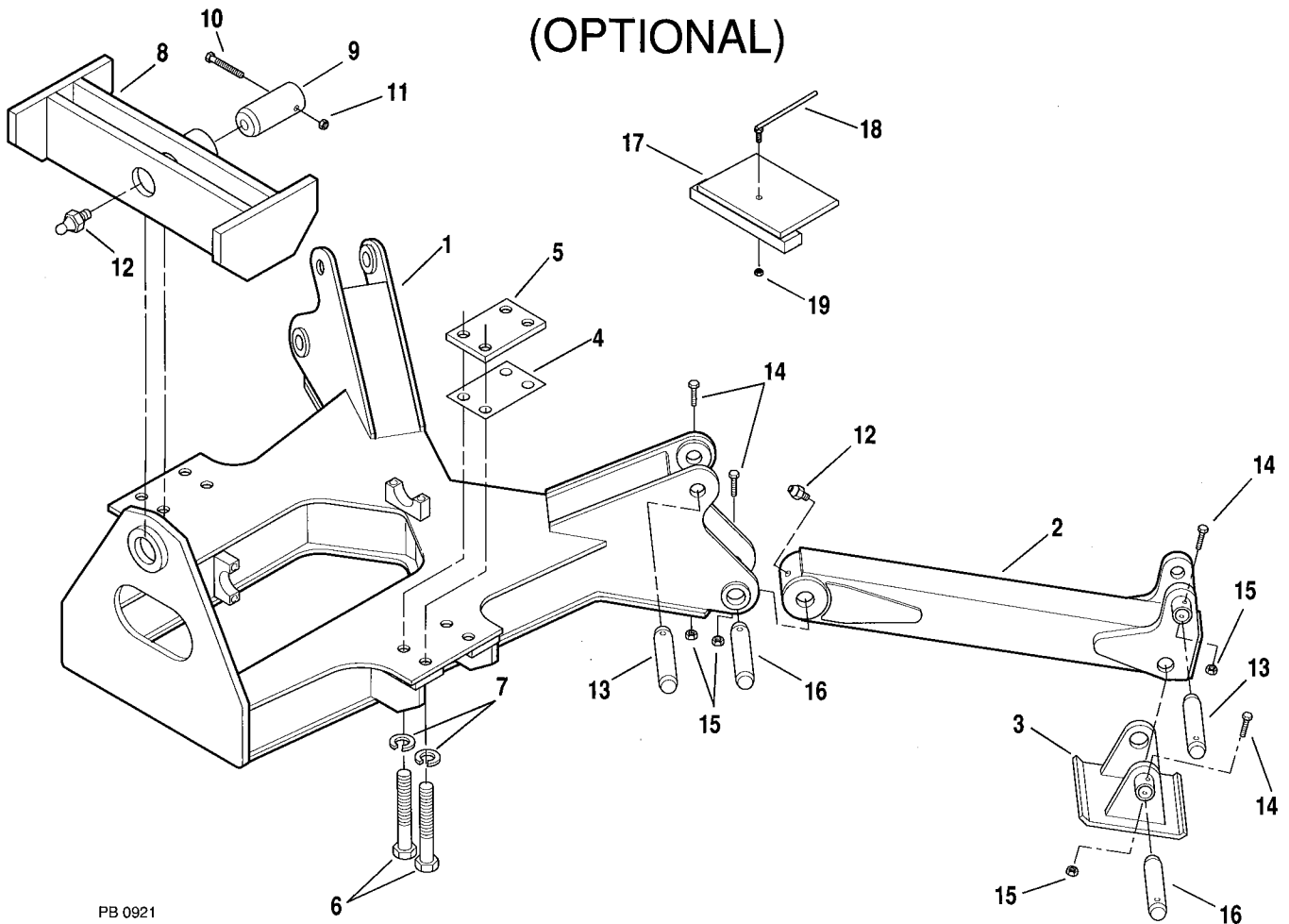
UTILITY BUCKET (OPTIONAL)



PA0782

Item No.	Part Number	Qty.	Description
1	7085065	1	Bucket, Utility, 1-1/8 cu yd (Includes Item 2)
2	4106561	1	

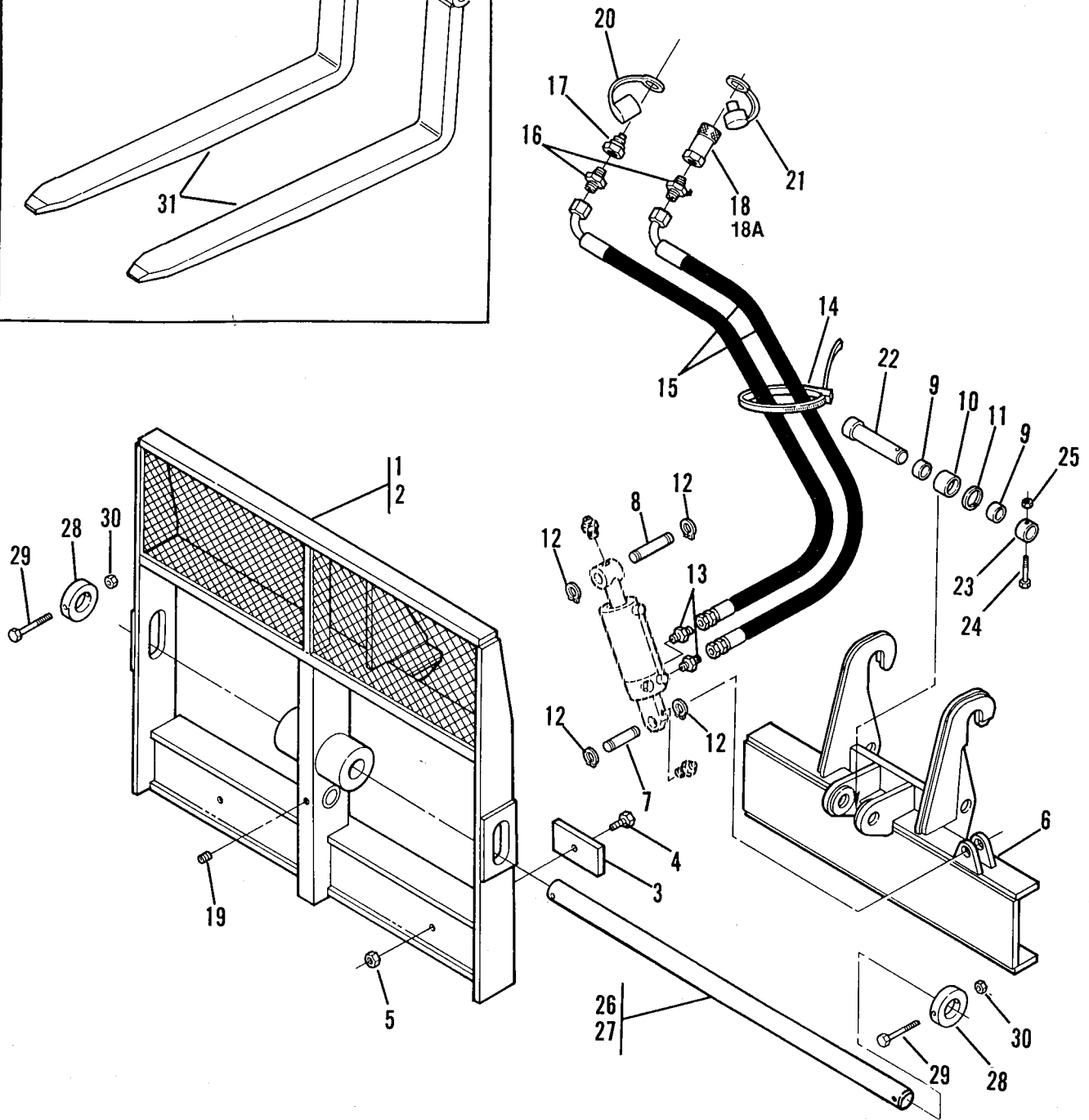
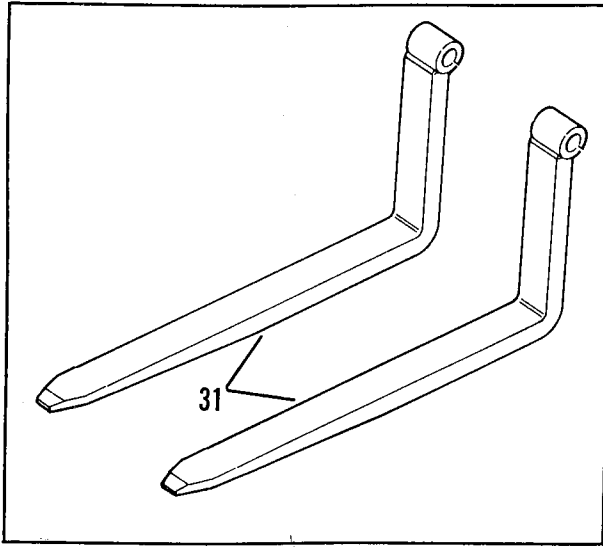
OUTRIGGERS (OPTIONAL)



PB 0921

Item No.	Part Number	Qty.	Description
1	7077625	1	Frame, Outrigger
2	7071463	2	Leg Assembly
3	7071692	2	Pad Assembly
4	7077631	2	Spacer, .06 THK
5	7077641	2	Spacer, 1.25 THK
6	8303526	8	Screw, Hex Hd. Cap, 3/4 NC x 9.5
7	8307010	8	Lockwasher, 3/4
8	7071443	1	Bracket
9	7075751	1	Pin, Frame Pivot
10	8303655	1	Screw, Hex Hd. Cap, 5/8 NC x 4 1/2
11	8305643	1	Locknut, 5/8 NC ESNA
12	8520001	3	Fitting, Grease 1/8 NPT
13	7071701	4	Pin, Cylinder Pivots
14	8303683	8	Screw, Hex Hd. Cap, 1/2 NC x 3.5
15	8305644	8	Locknut, 1/2 NC ESNA
16	7071711	4	Pin-Pad, Leg Pivots
17	7077161	1	Stop, Boom
18	7077181	1	Screw, Mount
19	8305619	1	Locknut, 3/4 NC ESNA

SIDE TILT CARRIAGE — OPTIONAL (S/N 9A0550 THRU 9F0599)

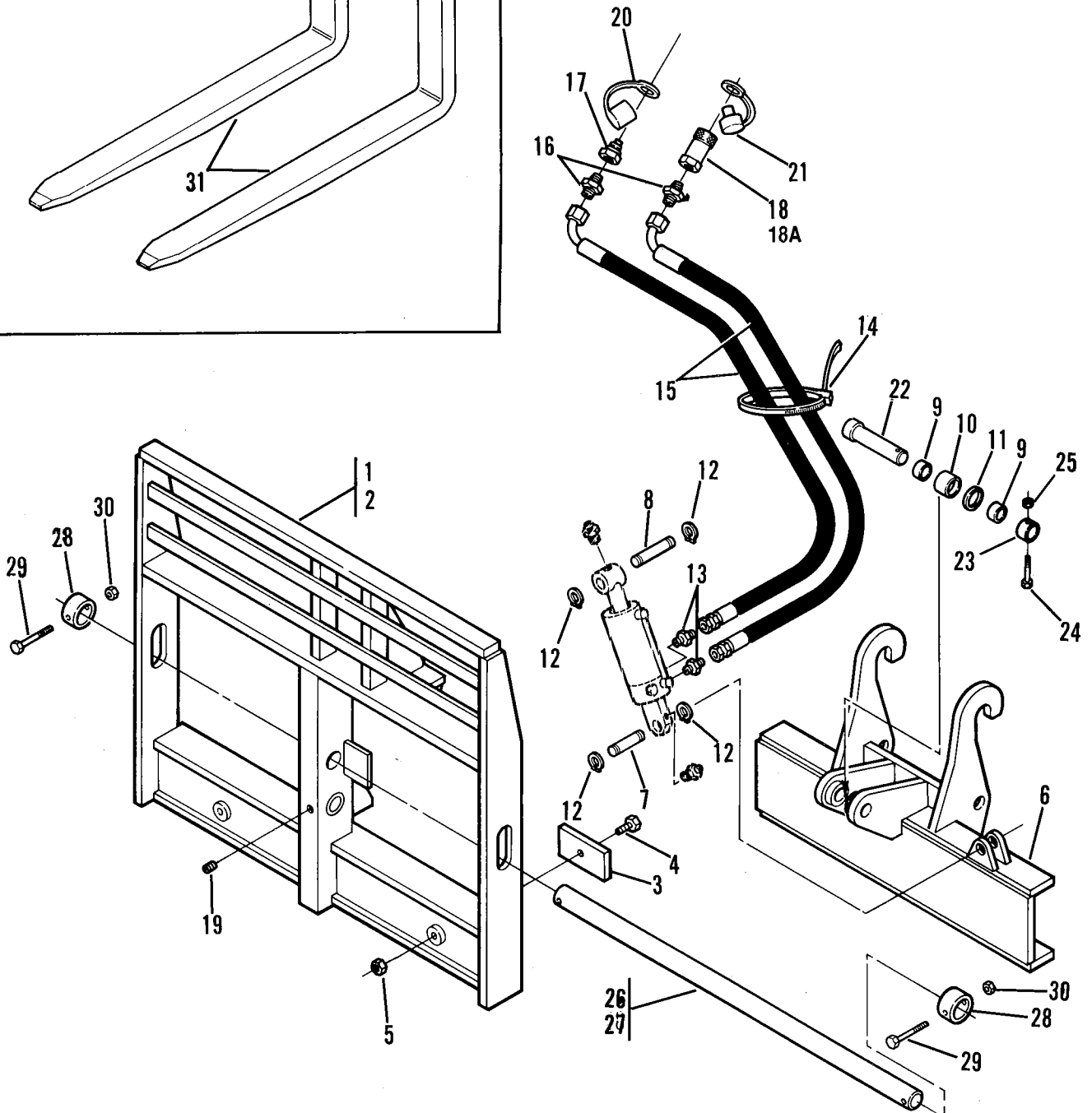
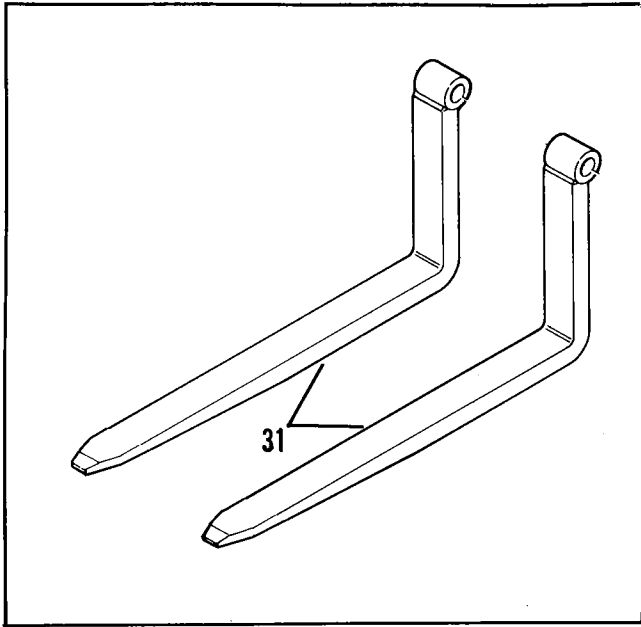


PB0930

SIDE TILT CARRIAGE — OPTIONAL (S/N 9A0550 THRU 9F0599)

Item No.	Part Number	Qty.	Description
1	7077344	1	Carriage, Side Tilt - 48" (Includes Items 3 thru 5)
2	7077444	1	Carriage, Side Tilt - 60" (Includes Items 3 thru 5)
3	7065482	2	Pad Wear
4	8303739	2	Screw, Hex Hd Cap 5/16NC x 1-1/4Gr 5
5	8305602	2	Locknut, 5/16NC
6	7085154	1	Base, Pivot
7	7077501	1	Pin, Cyl. Base
8	7077511	1	Pin, Cyl. Rod
9	7077481	2	Spacer
10	8065634	1	Bushing, Self Align
11	8642001	1	Ring, Snap
12	8642235	4	Ring, Snap
13	8760117	2	Conn, Str Thr'd
14	8584001	1	Tie Wrap
15	2711992	2	Hose Assembly
16	8760030	2	Conn, Male
17	8420056	1	Quick Disconnect, Male 3/8 NPT
18	8420057	1	Quick Disconnect, Female 3/8 NPT (See also item 18A)
18A	8640027	1	O-Ring, Viton - For High Temp. Application of item 18
19	8541433	1	Plug, Pipe Hex Skt 1/8
20	8420058	1	Cap, Dust
21	8420059	1	Plug, Dust
22	7085411	1	Pin, Pivot
23	7085501	1	Collar, Pin Locking
24	8303770	1	Screw, Hex Hd Cap 3/8-16 x 2-3/4
25	8305645	1	Locknut, 3/8-16 ESNA
26	7075942	1	Shaft, Fork Pivot 48"
27	7075952	1	Shaft, Fork Pivot 60"
28	7079251	2	Collar, Locking
29	8303629	2	Screw, Hex Hd Cap, 1/2-13 x 4-1/2
30	8305644	2	Locknut, 1/2-13
31	7069093	2	Fork, Pallet 48 x 4
	7077333	2	Fork, Lumber 60 x 5 (Not Shown)
	7070623	6	Fork, Blocking (Not Shown)

SIDE TILT CARRIAGE — OPTIONAL (S/N 9F0600 AND AFTER)

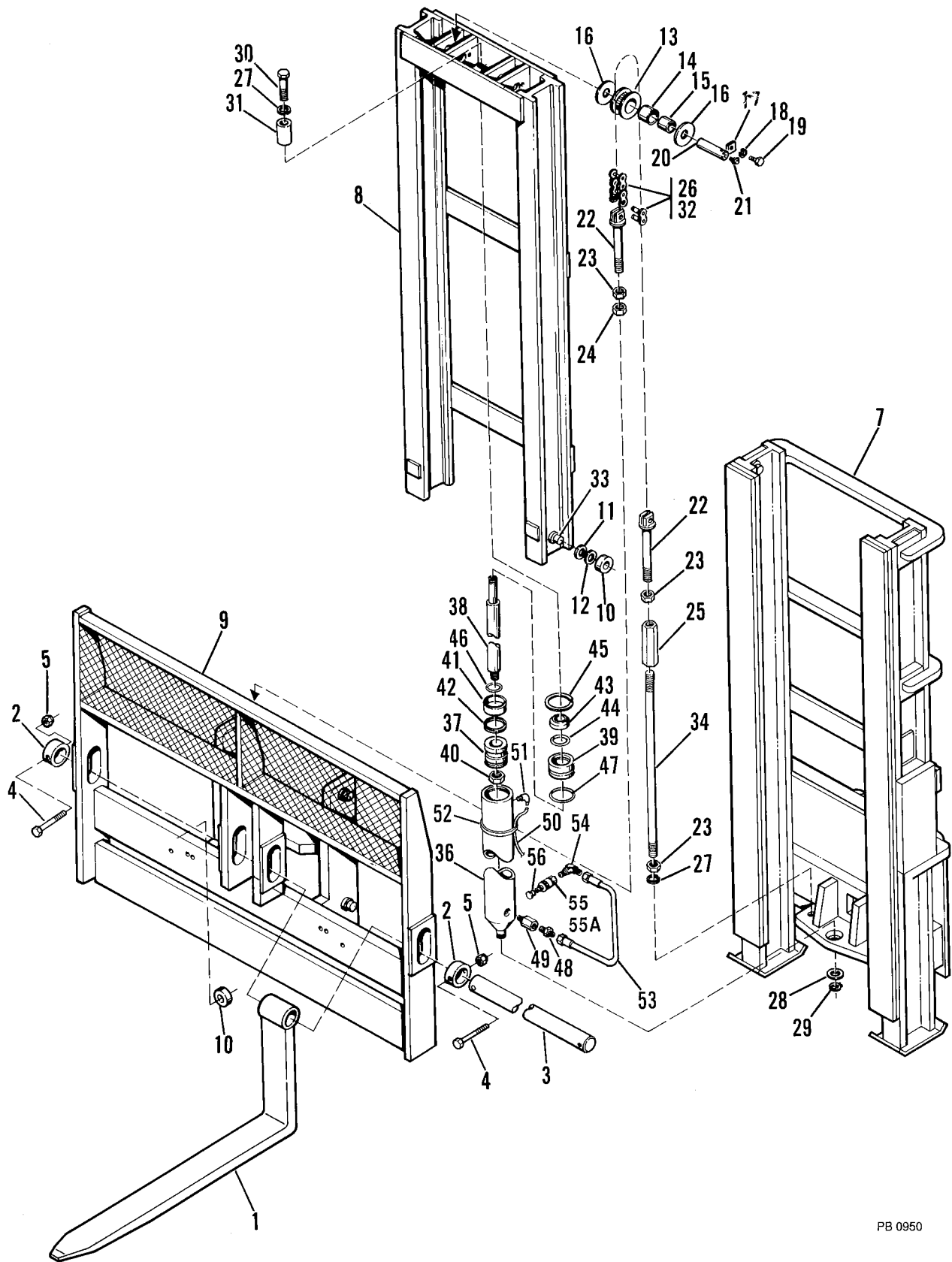


PB0940

SIDE TILT CARRIAGE — OPTIONAL (S/N 9F0600 AND AFTER)

Item No.	Part Number	Qty.	Description
1	7089044	1	Carriage, Side Tilt - 48" (Includes Items 3 thru 5)
2	7089054	1	Carriage, Side Tilt - 60" (Includes Items 3 thru 5)
3	7065482	2	Pad Wear
4	8303739	2	Screw, Hex Hd Cap 5/16NC x 1-1/4Gr 5
5	8305602	2	Locknut, 5/16NC
6	7085154	1	Base, Pivot
7	7077501	1	Pin, Cyl. Base
8	7077511	1	Pin, Cyl. Rod
9	7077481	2	Spacer
10	8065634	1	Bushing, Self Align
11	8642001	1	Ring, Snap
12	8642235	4	Ring, Snap
13	8760117	2	Conn, Str Thr'd
14	8584001	1	Tie Wrap
15	2711992	2	Hose Assembly
16	8760030	2	Conn, Male
17	8420056	1	Quick Disconnect, Male 3/8 NPT
18	8420057	1	Quick Disconnect, Female 3/8 NPT (See also item 18A)
18A	8640027	1	O-Ring, Viton - For High Temp. Application of item 18
19	8541433	1	Plug, Pipe Hex Skt 1/8
20	8420058	1	Cap, Dust
21	8420059	1	Plug, Dust
22	7085411	1	Pin, Pivot
23	7085501	1	Collar, Pin Locking
24	8303770	1	Screw, Hex Hd Cap 3/8-16 x 2-3/4
25	8305645	1	Locknut, 3/8-16 ESNA
26	7083912	1	Shaft, Fork Pivot 48"
27	7089972	1	Shaft, Fork Pivot 60"
28	7086471	2	Hub, Lock
29	8303634	2	Screw, Hex Hd Cap, 5/8-11 x 4
30	8305643	2	Locknut, 5/8-11
31	7090063	2	Fork, Pallet 48 x 4
	7082703	2	Fork, Lumber 60 x 7 (Not Shown)
	7085073	6	Fork, Blocking (Not Shown)

8 FOOT MAST (OPTIONAL)



PB 0950

8 FOOT MAST (OPTIONAL)

Item No.	Part Number	Qty.	Description
1	7069093	2	Fork, Pallet 4 x 48
2	7079251	2	Collar, Locking
3	7075952	1	Shaft, Fork Pivot
4	8303772	2	Screw, Hex Hd Cap, 1/2-13 x 5 Gr 5
5	8305644	2	Locknut, 1/2
6	7090353	1	Mast Assembly - Complete (Includes Items 7 thru 56)
7	Consult Factory	1	Outer Rail Assembly
8	8381151	1	Inner Rail Assembly
9	8381152	1	Carriage Assembly 60"
10	8381117	10	Roller, Load
11	8381118	AR	Shim .030
12	8381119	AR	Shim .060
13	8381120	2	Wheel, Chain
14	8381121	2	Bearing
15	8381122	2	Race, Bearing
16	8381123	4	Washer, Thrust
17	8381124	2	Lock, Shaft
18	8381125	2	Lockwasher
19	8381126	2	Bolt
20	8381127	2	Shaft, Chain Wheel
21	8381128	2	Fitting, Grease
22	8381129	4	Chain End
23	8381130	6	Nut, Jam
24	8381131	2	Locknut
25	8381132	2	Turnbuckle
26	8381133	4	Master Link Set
27	8381134	3	Lockwasher
28	8381135	1	Washer, Flat
29	8381136	1	Ring, Retaining
30	8381138	1	Bolt
31	8381140	1	Bushing
32	8381153	2	Chain
33	8381149	8	Support, Roller
34	8381154	2	Rod, Connecting
35	8381146	1	Cylinder Assembly, Mast - Complete (Includes Items 36 thru 47)
36	8381147	1	Tube, Cylinder
37	8381156	1	Piston
38	8381148	1	Rod, Cylinder
39	8381157	1	Gland
40	NSS	1	Nut
41	See Kits	1	Ring, Bearing
42	See Kits	1	Ring, Seal
43	See Kits	1	Wiper
44	See Kits	1	O-Ring
45	See Kits	1	O-Ring
46	See Kits	1	O-Ring
47	NSS	1	Retainer
48	8760108	1	Connector, Male, 1/2 JIC x 7/8 Str. Thread
49	8205474	1	Regulator, Flow
50	8582005-0680	1	Line, Vent
51	8424213	1	Elbow, 90° 3/8 ID Hose x 1/2 NPT Male
52	8584002	4	Tie, Cable
53	8381159	1	Hose Assembly
54	8760202	1	Elbow, 90° Male, 3/8NPT x 1/2JIC
55	8420057	1	Quick Disconnect, Female 3/8NPT (See also item 55A)
55A	8640027	1	O-Ring, Viton - For High Temp. Application of item 55
56	8420059	1	Cap, Dust
			<u>KITS</u>
	8381158	1	Seal Kit, Mast Cylinder (Includes Items 41 thru 46)

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