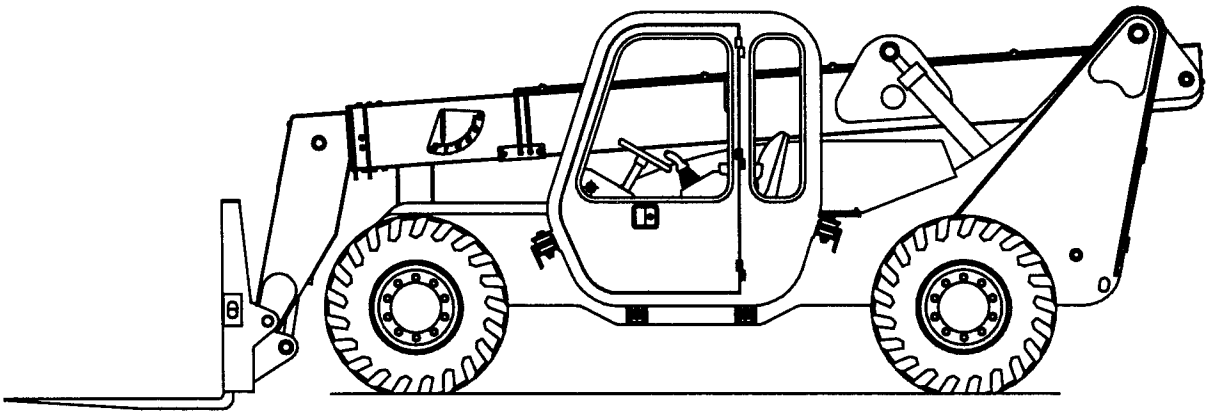
236102

PARTS BOOK
TH528



DATE: 6-22-00

CUMMINS B3.9-C-80 ENGINE
CLARK T12000 SERIES TRANSMISSION
DANA 212 AXLES
7-316 HYDRAULIC CYLINDERS
DAVID BROWN MAIN VALVE
DAVID BROWN 4-WAY CONTROLLER

Serial Number:_____

TEREX HANDLERS
455 N. Superior Ave., Baraga, MI 49908-0248
PH: (906) 353-6675; FAX: (906) 353-7543
INTERNET: http://www.sqshooter.com

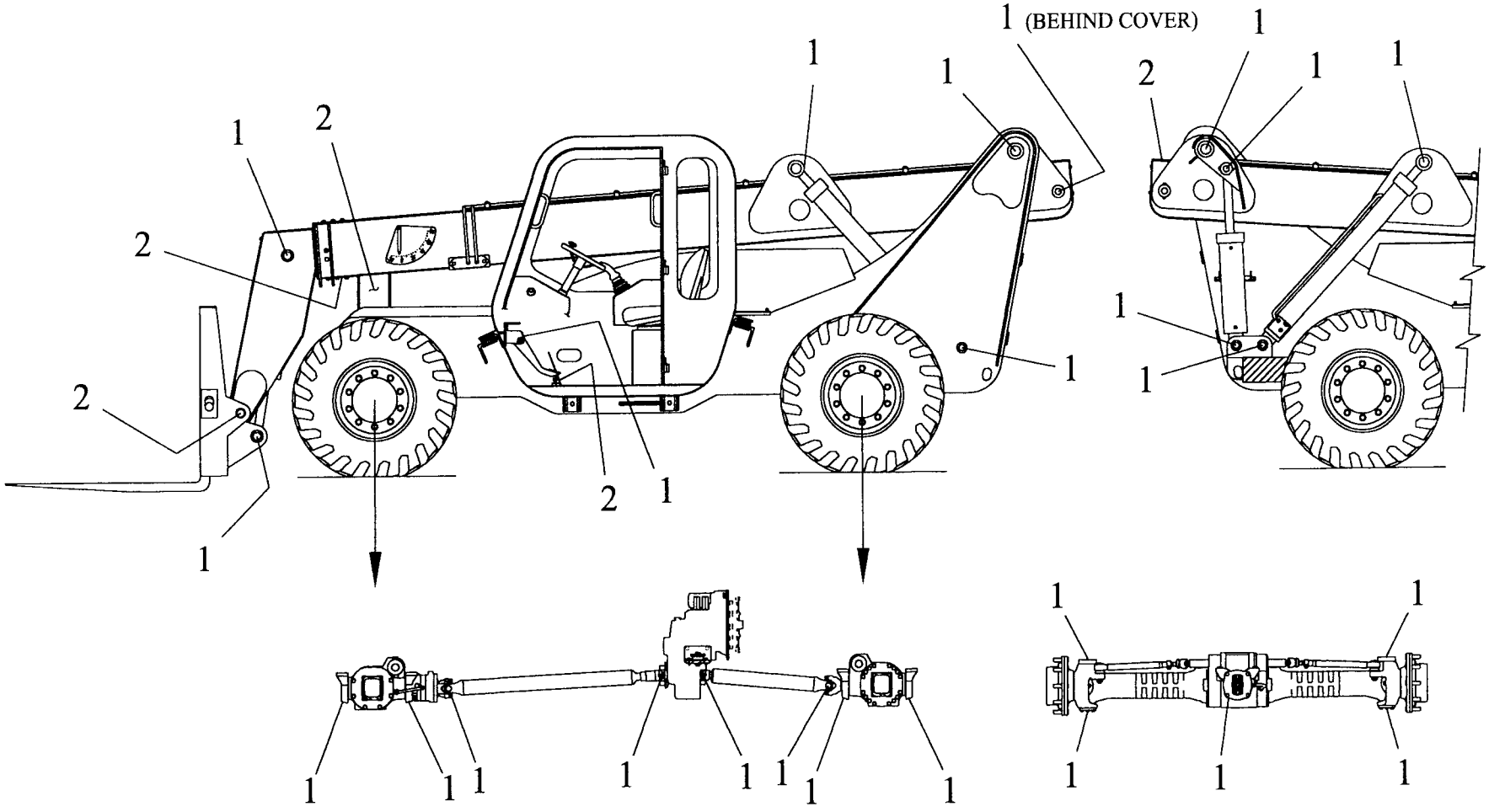
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TH528

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43	RETURN FILTER ASSEMBLY / 7-256-23	P1-1060
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45	HYDRAULIC GEAR PUMP ASSEMBLY	P4-2027
46	HYDRAULIC PISTON PUMP ASSEMBLY	P4-2028
47	CONTROL BLOCK ASSEMBLY / 7-234-90	P4-2137
48	4-WAY CONTROLLER ASSEMBLY / 7-358-03	P1-1280
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50	MAIN VALVE ASSEMBLY / 7-358-11	P4-2191

PAGE NUMBER 1

LUBE CHART
TH528 / DANA 212 AXLES

DRAWING NUMBER P4-1890



EXPLODED VIEW OF POWER TRAIN ASSEMBLY

EXPLODED VIEW OF FRONT AND REAR AXLE ASSEMBLIES

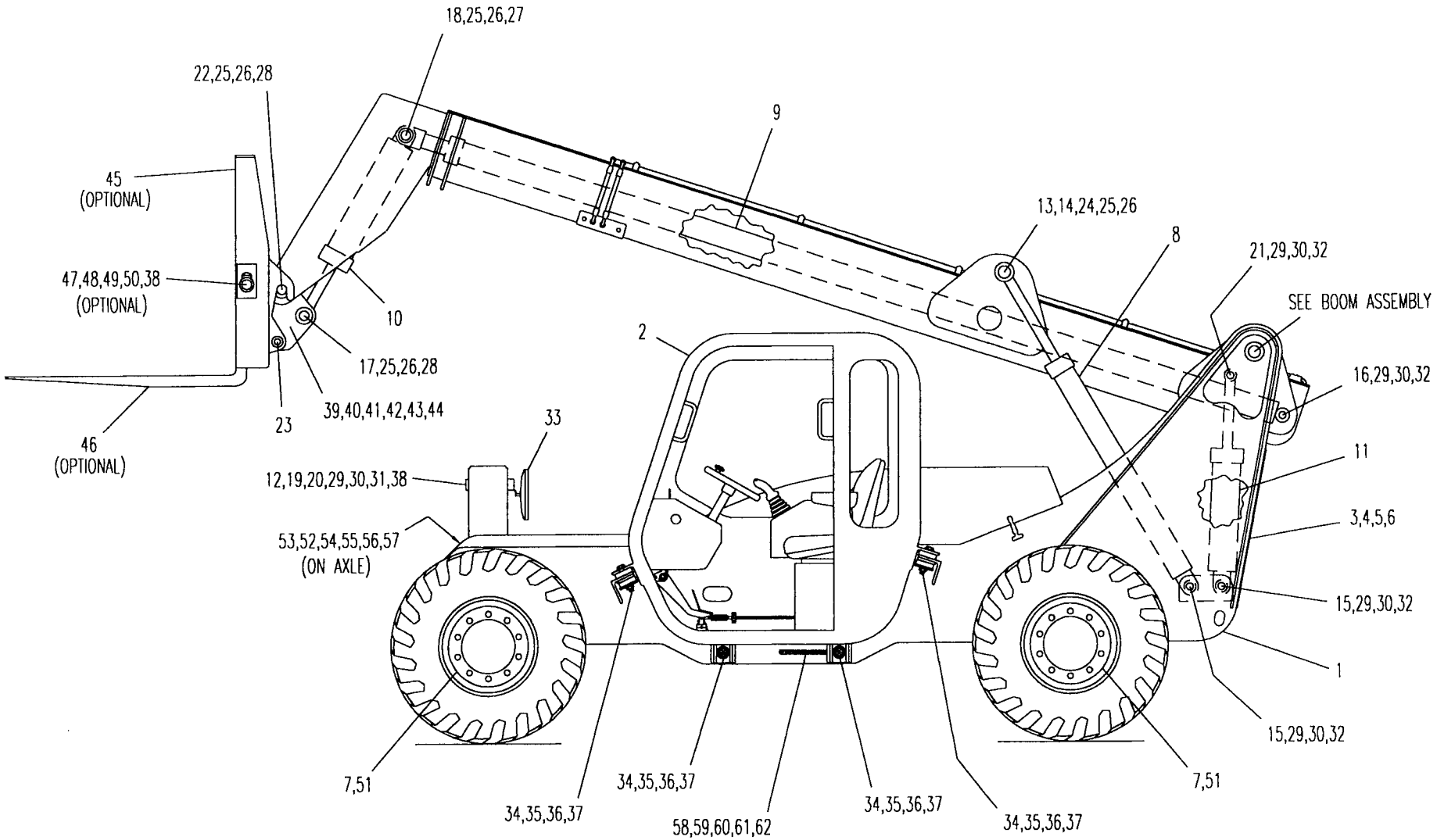
MANUFACTURER PART NUMBER	NUMBER	DESCRIPTION	SEAL KIT
PPDB-LNN	7-234-13	CARTRIDGE / REDUCING RELIEVING	7-234-29
PBFB-FAN	7-234-15	CARTRIDGE / REDUCING	7-234-30
CXDA-XCN	7-234-80	CARTRIDGE / CHECK	7-234-31
CKCD-XCN	7-234-18	CARTRIDGE / PILOT CHECK	7-234-29
CAEA-LHN	7-234-53	CARTRIDGE / COUNTERBALANCE	7-234-30
CKED-XCN	7-234-55	CARTRIDGE / PILOT CHECK	7-234-30
12C51SM	7-244-42	CARTRIDGE / ELECTRIC / CONTROLLER	7-244-41
RV10-22A-O-N-25	7-356-11	CARTRIDGE / RELIEF VALVE / GEAR PUMP	7-356-12
	7-316-194	CYLINDER / SWAY	7-900-76
	7-316-195	CYLINDER / LIFT	7-900-72
	7-316-192	CYLINDER / TILT	7-900-74
	7-316-191	CYLINDER / BOOM	7-900-73
	7-316-193	CYLINDER / SLAVE	7-900-75
	7-379-01	CYLINDER / FORK FRAME ROTATE	7-900-86
	7-229-696	CYLINDER / STEERING	7-900-88
	7-198-43	BRAKE ACTUATOR	7-198-40
	7-256-71	ORBITRAL / STEERING	7-256-35

TH528 FILTER GUIDE

DESCRIPTION	PART NO.	APPLICATION
1. HYDRAULIC RETURN FILTER ELEMENT	7-256-05	TH528
2. ENGINE OIL FILTER / CUMMINS	7-343-08	TH528
3. ENGINE FUEL FILTER	7-343-09	TH528
4. ENGINE FUEL / WATER SEPARATOR	7-343-10	TH528
5. AIR CLEANER ELEMENT	7-135-07	TH528
6. TRANSMISSION OIL FILTER	7-126-349	TH528
7. FILLER CAP / FUEL	7-272-09	TH528
8. HYDRAULIC RESERVOIR FILLER-BREATHER	7-354-01	TH528 w/ 5 PSI FILLER-BREATHER

ITEM	NUMBER	DESCRIPTION	REQD
1	4-2110-1	DECAL / TH528	2
2	4-1401-1	DECAL / STEERING SELECTOR (*)	REF
3	4-1401-2	DECAL / DIESEL FUEL (*)	REF
4	4-1401-3	DECAL / HYDRAULIC OIL LEVEL (*)	REF
5	4-1401-6	DECAL / TRANSMISSION CONTROLS (*)	REF
6	4-1401-8	DECAL / TRANSMISSION OIL (*)	REF
7	4-1401-9	DECAL / FUSE HOLDER (*)	REF
8	4-1880-1	DECAL / BOOM ANGLE / WHITE LETTER	1
9	4-1880-3	DECAL / 4 - WAY CONTROLLER	1
10	4-1880-11	DECAL / A / WHITE LETTER	1
11	4-1880-12	DECAL / B / WHITE LETTER	1
12	4-1880-13	DECAL / C / WHITE LETTER	1
13	4-1880-14	DECAL / D / WHITE LETTER	1
14	4-1105-16	DECAL / MADE IN USA	4
15	3-1218	DECAL / WARNING	1
16	3-1257-1	DECAL / HYDRAULIC OIL ONLY	1
17	4-1579-1	DECAL / PARKING BRAKE	1
18	4-1579-2	DECAL / ELECTRIC HAZARD	1
19	4-1579-3	DECAL / SWAY CONTROL	1
20	4-1579-4	DECAL / NOT A MAN - LIFT	1
21	4-1579-5	DECAL / BEFORE OPERATING	1
22	4-1579-6	DECAL / BATTERY COMPARTMENT	1
23	4-1579-7	DECAL / COOLING SYSTEM	1
24	4-1579-8	DECAL / HOT EXHAUST	2
25	4-1579-9	DECAL / PINCH POINT AREA	9
26	4-1579-10	DECAL / MACHINE STABILITY	4
27	4-1579-11	DECAL / USE THE SEAT BELT	1
28	4-1579-12	DECAL / NO RIDERS	1
29	4-1579-13	DECAL / HYDRAULIC SYSTEM	1
30	7-349-01	DECAL / TEREX CROWN / SMALL	1
31	7-349-02	DECAL / TEREX CROWN / MEDIUM	2
32	7-349-03	DECAL / TEREX CROWN / LARGE	1
33	2-1208	DECAL / BRAKE OFF	1
34	1-1285	DECAL / CITGO TRANSMISSION OIL	1
35	1-1286	DECAL / CITGO HYDRAULIC OIL	1
36	1-1287	DECAL / DAILY CHECKLIST	1
37	4-2111-2	DECAL / TEREX	2
38	4-1401	FULL DECAL SHT. / ITEMS MARKED (*)	REF
39	7-900-91	DECAL KIT (ITEMS 1 THRU 37)	REF

(*) DECALS NOT SOLD SEPARATELY

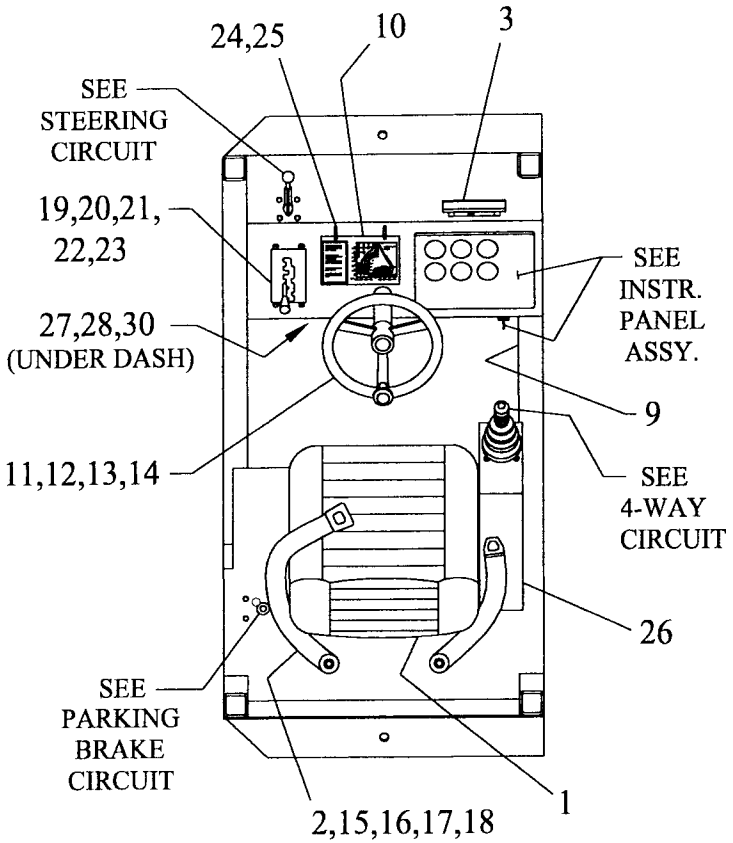

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47,48,49,50,38 (OPTIONAL)
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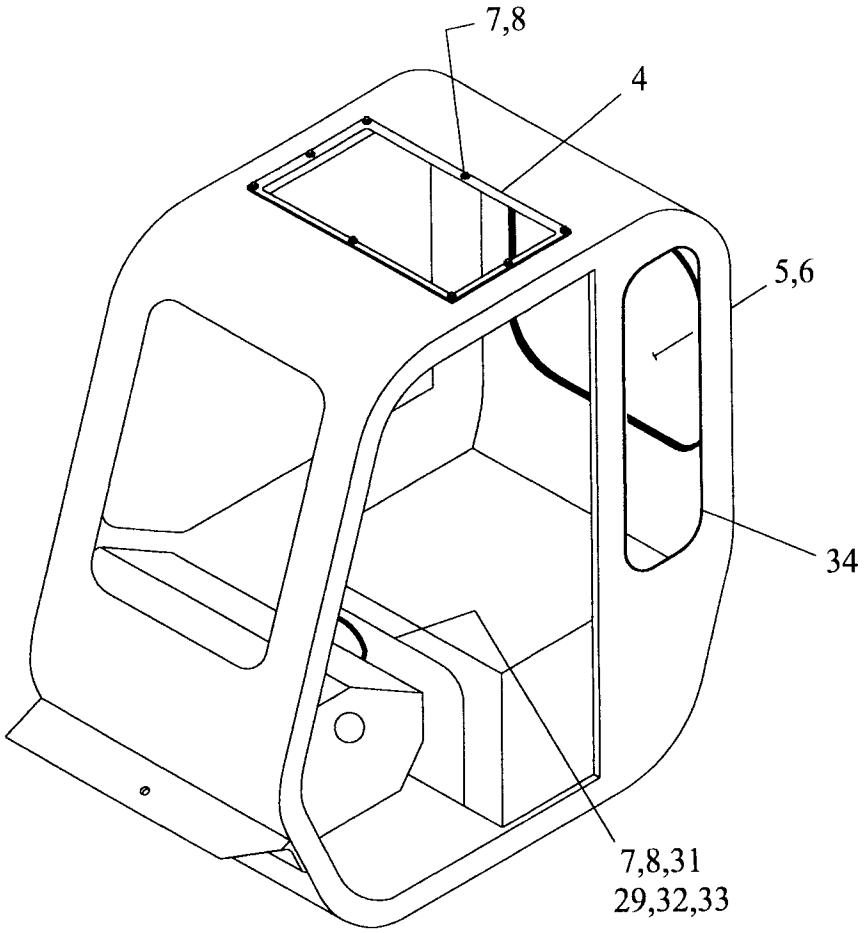
ITEM	NUMBER	DESCRIPTION	REQD
1	4-2163	MAIN FRAME WELDMENT	1
2	4-1917	CAB WELDMENT	1
3	4-1829	REAR PANEL	1
4	6-5206-06	CAPSCREW 3/8 NC x 3/4 LG.	2
5	6-6211-06	LOCKWASHER 3/8	2
6	6-6212-06	FLATWASHER 3/8	2
7	7-335-08	TIRE & WHEEL ASSEMBLY / RH	2
8	7-316-195	CYLINDER / LIFT	2
9	7-316-191	CYLINDER / BOOM	1
10	7-316-192	CYLINDER / TILT	1
11	7-316-193	CYLINDER / SLAVE	1
12	7-316-194	CYLINDER / SWAY	1
13	3-1363	PIN / HEAD LIFT CYLINDER	1
14	6-2420-10	COLLAR / HEAD LIFT CYLINDER	2
15	6-3312-87	PIN / BASE LIFT & SLAVE CYLINDER	3
16	6-3012-03	PIN / BASE BOOM CYLINDER	1
17	6-3016-02	PIN / HEAD TILT CYLINDER	1
18	6-3316-108	PIN / BASE TILT & HEAD BOOM CYL.	1
19	3-1389	PIN / HEAD SWAY CYLINDER	1
20	6-3312-81	PIN / BASE SWAY CYLINDER	1
21	2-1195	PIN / HEAD SLAVE CYLINDER	1
22	3-1361	PIN / QUICK ATTACH MOUNTING FRAME	1
23	3-1335	LOCK PIN / QUICK ATTACH	1
24	6-5208-36	CAPSCREW 1/2 NC x 4 1/2 LG.	2
25	6-6201-08	HEX NUT 1/2 NC	5
26	6-6211-08	LOCKWASHER 1/2	5
27	6-5208-30	CAPSCREW 1/2 NC x 3 3/4 LG.	1
28	6-5208-34	CAPSCREW 1/2 NC x 4 1/4 LG.	2
29	6-6201-06	HEX NUT 3/8 NC	6
30	6-6211-06	LOCKWASHER 3/8	6
31	6-5206-24	CAPSCREW 3/8 NC x 3 LG.	4
32	6-5206-28	CAPSCREW 3/8 NC x 3 1/2 LG.	2
33	7-333-01	MIRROR / CONVEX	1
34	6-5214-40	CAPSCREW 7/8 NC x 5 LG.	4
35	6-6205-14	SELF LOCKING NUT 7/8 NC	4
36	7-190-06	WASHER / RUBBER MOUNTS	4
37	7-190-05	RUBBER MOUNT / CAB	8
38	6-6201-08	HEX NUT 1/2 NC	REF
39	4-1825	MOUNTING FRAME / QUICK ATTACH	1
40	2-1178	LOCK LEVER / for LOCK PIN	1
41	1-1182	SPACER BUSHING / LOCK LEVER	1
42	7-194-52	SPRING / LOCK LEVER	1
43	6-5312-20	CAPSCREW 3/4 NF x 2 1/2 LG.	1
44	6-6206-12	SELF LOCKING NUT 3/4 NF	1
45	4-1686	FORK FRAME / 48 IN. (OPTIONAL)	REF
46	3-1391-10	FORK TINE / 48 IN. (OPTIONAL)	REF
47	2-1067-10	FORK TINE PIN / 48 IN.	REF
48	1-1074	COLLAR / FORK TINE PIN	REF
49	6-5208-36	CAPSCREW 1/2 NC x 4 1/2 LG.	REF
50	6-6211-08	LOCKWASHER 1/2	REF
51	7-335-09	TIRE & WHEEL ASSEMBLY / LH	2
52	6-4516-16	BRONZE BUSHING / AXLE SWAY	REF

ITEM	NUMBER	DESCRIPTION	REQD
53	3-1435	SWAY MOUNT / 212 AXLE	1
54	1-1239	BASE PLATE / SWAY MOUNT	1
55	6-5312-68	CAPSCREW 3/4 NF x 8 1/2 LG.	4
56	6-6211-12	LOCKWASHER 3/4	4
57	6-6202-12	HEX NUT 3/4 NF	4
58	7-319-17	GROUND STRAP / CAB	1
59	6-5206-10	CAPSCREW 3/8 NC x 1 1/4 LG.	1
60	6-5206-12	CAPSCREW 3/8 NC x 1 1/2 LG.	1
61	6-6211-06	LOCKWASHER 3/8	2
62	6-6201-06	HEX NUT 3/8 NC	2

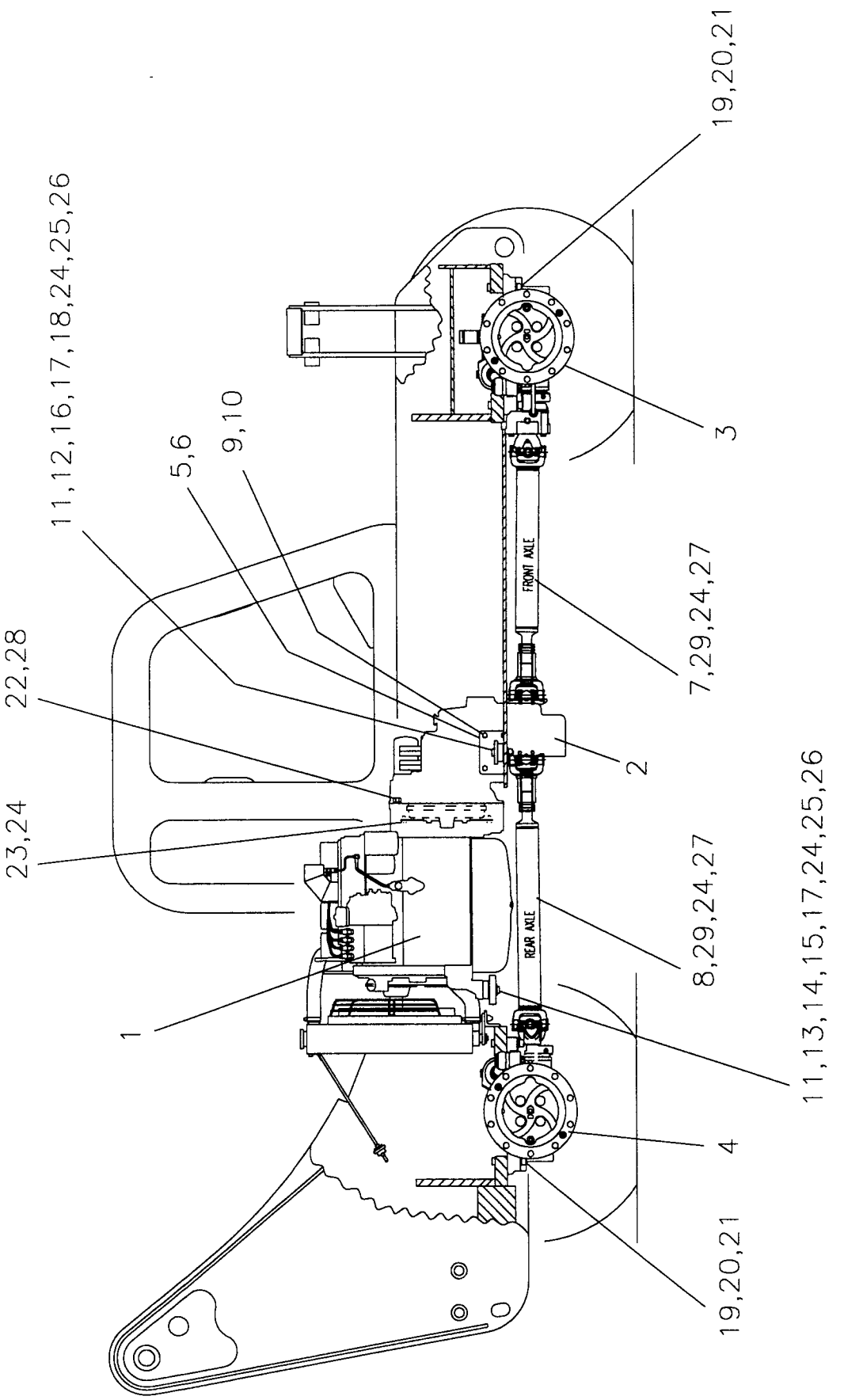
NOTES

OPERATOR'S COMPARTMENT ASSEMBLY
TH528





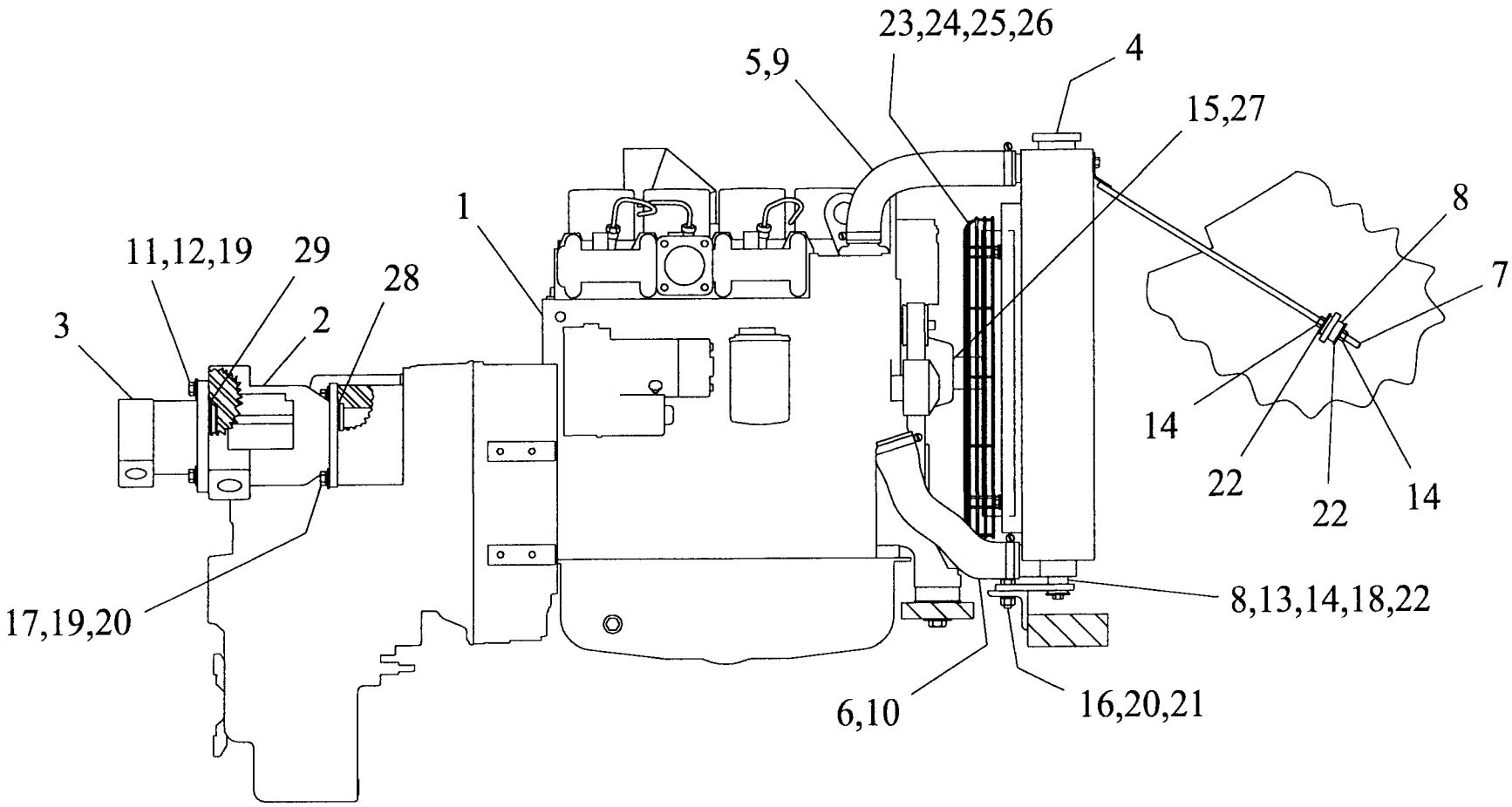
ITEM	NUMBER	DESCRIPTION	REQD
1	7-197-01	SEAT	1
2	7-337-01	SEAT BELT	1
3	7-104-01	LEVEL GAGE	1
4	4-1861-1	GLASS / SKYLIGHT	1
5	6-4110-07	GLASS / REAR WINDOW	1
6	6-9608-720	RUBBER / REAR WINDOW	1
7	6-5204-04	CAPSCREW 1/4 NC x 1/2 LG.	12
8	6-6212-04	FLATWASHER 1/4	12
9	6-9601-133	EDGING 1/4 x 16 5/8 LG.	4
10	4-1386-5	LOAD CHART / TH528	1
11	7-256-32	NUT / STEERING WHEEL (w/ ITEM 12)	REF
12	7-256-71	STEERING ORBITRAL	REF
13	7-352-01	STEERING WHEEL	1
14	7-352-02	HORN BUTTON KIT	1
15	6-5206-06	CAPSCREW 3/8 NC x 3/4 LG.	2
16	6-6211-06	LOCKWASHER 3/8	2
17	6-6212-06	FLATWASHER 3/8	2
18	6-6201-06	HEX NUT 3/8 NC	2
19	7-351-01	TRANSMISSION CONTROL	1
20	6-6284-08	MACHINE SCREW #10-32 x 3/4 LG.	4
21	6-6286-06	HEX NUT #10-32	4
22	6-6286-12	FLATWASHER #10	4
23	6-6286-07	LOCKWASHER #10	4
24	7-194-07	U-BOLT w/ NUTS	2
25	6-6201-04	HEX NUT 1/4 NC	4
26	4-1832	CONTROLLER MOUNT / ARMREST	1
27	6-9601-144	EDGING 1/4 x 18 LG.	1
28	4-1819-2	VANDAL COVER / UNDER DASH	REF
29	4-1819-3	COVER / SEAT MOUNT	REF
30	7-290-01	BODY BOLT 5/16 NC x 3/4 LG.	4
31	6-6211-04	LOCKWASHER 1/4	4
32	7-194-09	GROMMET	1
33	6-9601-80	EDGING 1/4 x 10 LG.	1
34	6-9601-664	EDGING 1/4 x 83 LG.	1



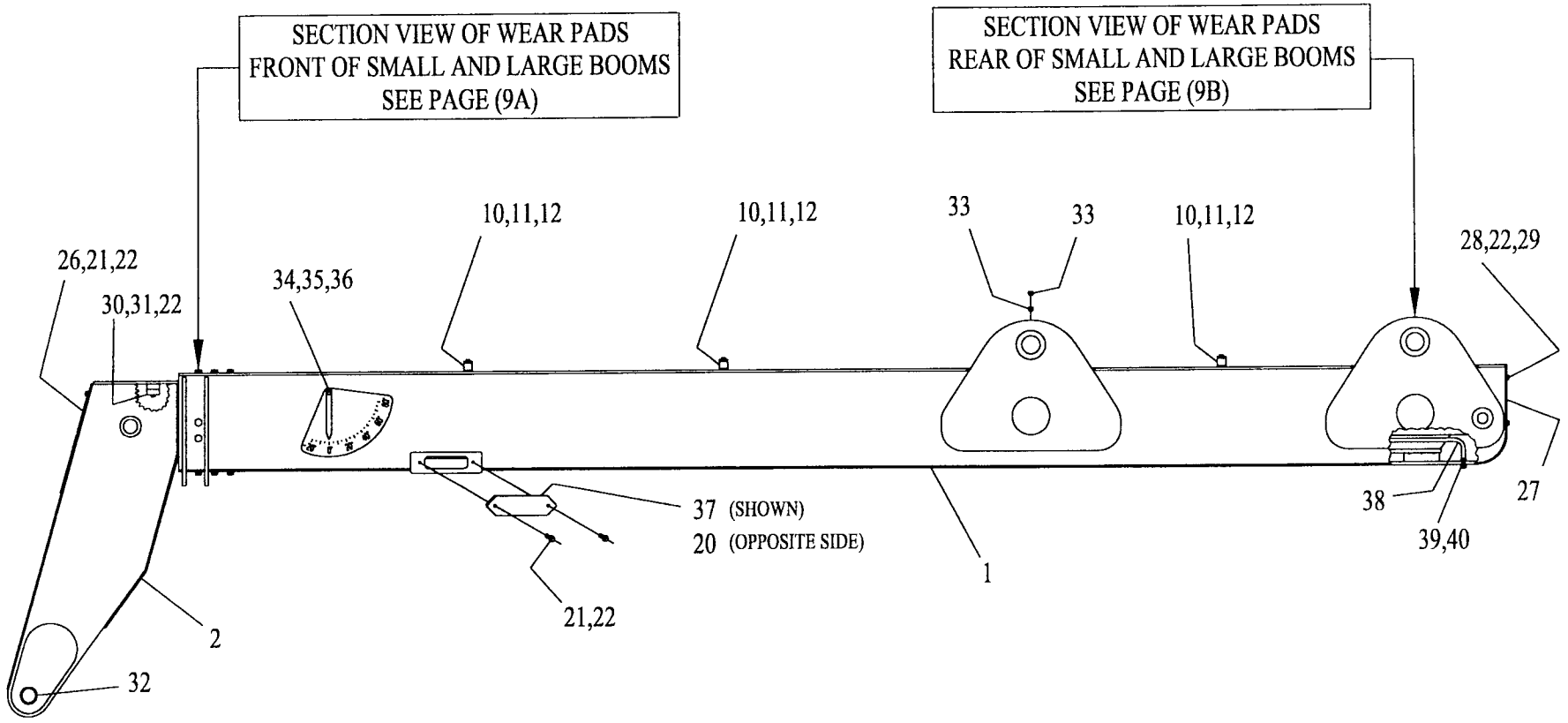
7	PAGE NUMBER	POWER TRAIN ASSEMBLY TH528	DRAWING NUMBER	P1-1002

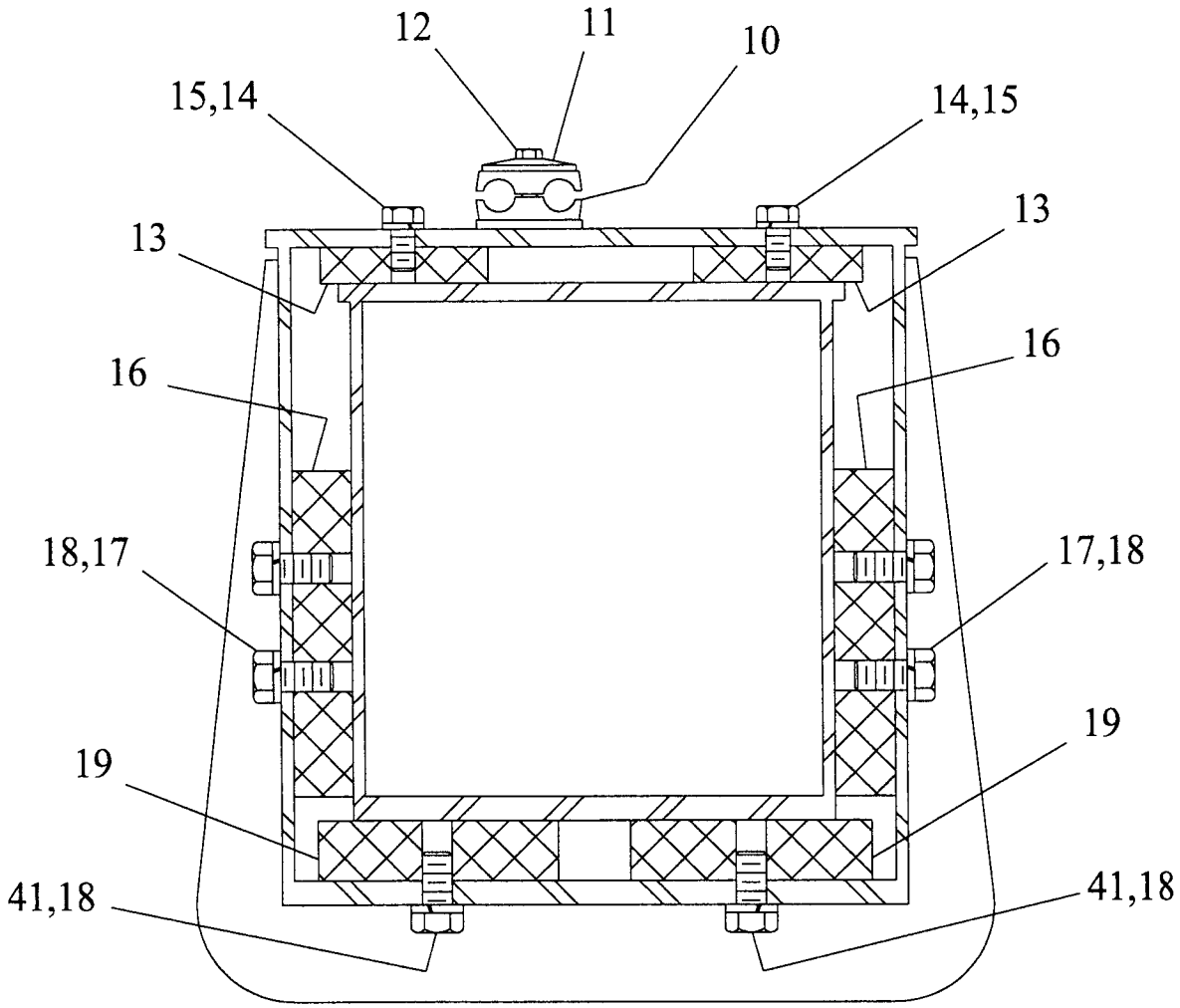
ITEM	NUMBER	DESCRIPTION	REQD
1	P4-1838	ENGINE and PUMP ASSEMBLY	REF
2	7-126-348	TRANSMISSION ASSEMBLY	1
3	7-229-377	AXLE ASSEMBLY / FRONT	1
4	7-229-378	AXLE ASSEMBLY / REAR	1
5	3-1360-1	MOUNT / TRANSMISSION / LH	1
6	3-1360-2	MOUNT / TRANSMISSION / RH	1
7	7-196-52	DRIVESHAFT / FRONT	1
8	7-196-67	DRIVESHAFT / REAR	1
9	6-8112-35	CAPSCREW 12mm x 1.75 x 35mm LG.	5
10	6-9111-12	LOCKWASHER 12mm	5
11	7-326-02	RUBBER MOUNT / ENGINE-TRANS.	3
12	6-5310-30	CAPSCREW 5/8 NF x 3 3/4 LG.	2
13	6-5210-32	CAPSCREW 5/8 NC x 4 LG.	1
14	6-6207-10	JAM NUT 5/8 NC	1
15	6-5206-16	CAPSCREW 3/8 NC x 2 LG.	2
16	6-6212-10	FLATWASHER 5/8	3
17	6-6211-10	LOCKWASHER 5/8	3
18	6-6202-10	HEX NUT 5/8 NF	2
19	6-5312-40	CAPSCREW 3/4 NF x 5 LG.	8
20	6-6211-12	LOCKWASHER 3/4	8
21	6-6202-12	HEX NUT 3/4 NF	8
22	6-8510-40	CAPSCREW 10mm x 1.5 x 40mm LG.	11
23	6-5306-14	CAPSCREW 3/8 NF x 1 3/4 LG.	8
24	6-6211-06	LOCKWASHER 3/8	30
25	6-6201-06	HEX NUT 3/8 NC	6
26	6-5206-12	CAPSCREW 3/8 NC x 1 1/2 LG.	4
27	6-5306-16	CAPSCREW 3/8 NF x 2 LG.	16
28	6-9111-10	LOCKWASHER 10mm	11
29	7-196-51	STRAP KIT	REF

ENGINE & PUMP ASSEMBLY
TH528

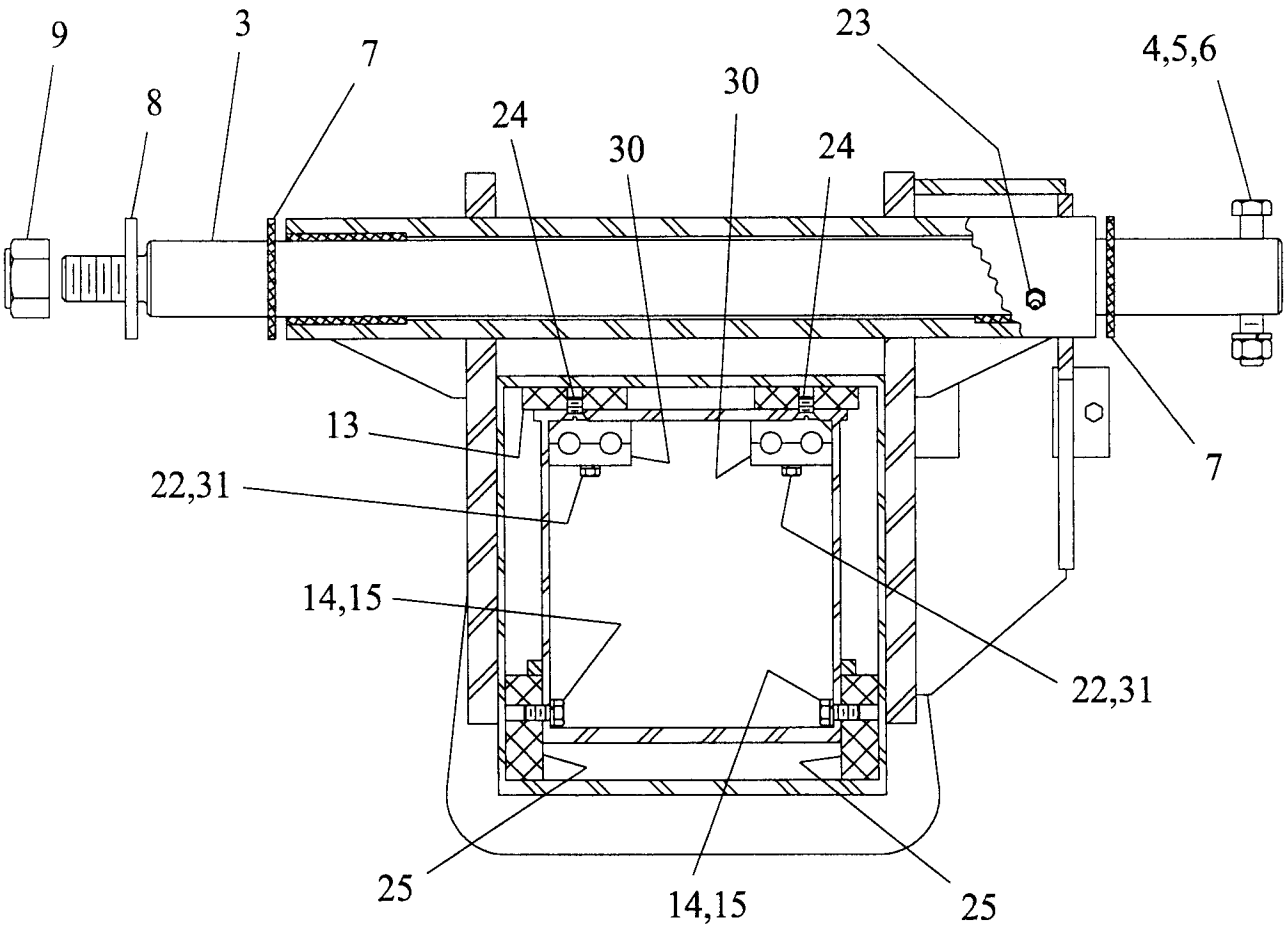


ITEM	NUMBER	DESCRIPTION	REQD
1	7-343-24	ENGINE ASSY / CUMMINS B3.9-C-80	1
2	7-345-56	PUMP / PISTON TYPE / 45cc	1
3	7-345-57	PUMP / GEAR TYPE / 23.8cc	1
4	7-362-02	RADIATOR	1
5	7-158-86	RADIATOR HOSE / UPPER	1
6	7-158-87	RADIATOR HOSE / LOWER	1
7	3-1367	ADJUSTING ROD / UPPER RADIATOR MT.	1
8	7-190-04	RUBBER MOUNT / CENTER BONDED	3
9	6-6252-08	CLAMP / RADIATOR HOSE	2
10	6-6252-10	CLAMP / RADIATOR HOSE	2
11	6-8912-35	CAPSCREW SH 12mm x 1.75 x 35mm	2
12	6-9111-12	LOCKWASHER 12mm	2
13	6-5206-16	CAPSCREW 3/8 NC x 2 LG.	2
14	6-6205-06	SELF LOCKING NUT 3/8 NC	4
15	7-343-34	FAN / BLOWER / 18 IN.	REF
16	6-5208-12	CAPSCREW 1/2 NC x 1 1/2 LG.	2
17	6-5208-12	CAPSCREW 1/2 NC x 1 1/2 LG.	2
18	1-1210	MOUNT / RADIATOR	2
19	6-6212-08	FLATWASHER 1/2	2
20	6-6211-08	LOCKWASHER 1/2	4
21	6-6201-08	HEX NUT 1/2 NC	2
22	7-190-02	WASHER / CENTER BONDED RUBBER MT.	4
23	4-1685	FAN GUARD / 18 IN. FAN	1
24	6-5205-08	CAPSCREW 5/16 NC x 1 LG.	4
25	6-6211-05	LOCKWASHER 5/16	4
26	6-6212-06	FLATWASHER 3/8	4
27	7-343-16	SPACER / FAN / 2 1/2 (1 REQ.)	REF
28	7-229-100	O-RING	1
29	7-345-88	O-RING	REF


SECTION VIEW OF WEAR PADS
FRONT OF SMALL AND LARGE BOOMS
SEE PAGE (9A)
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27

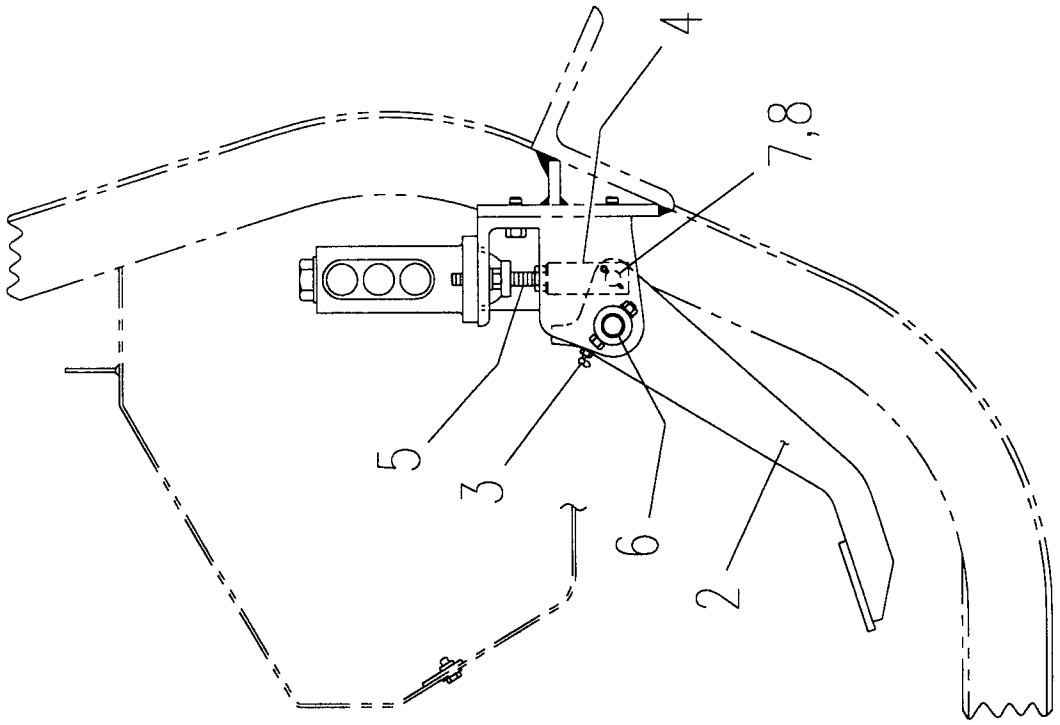


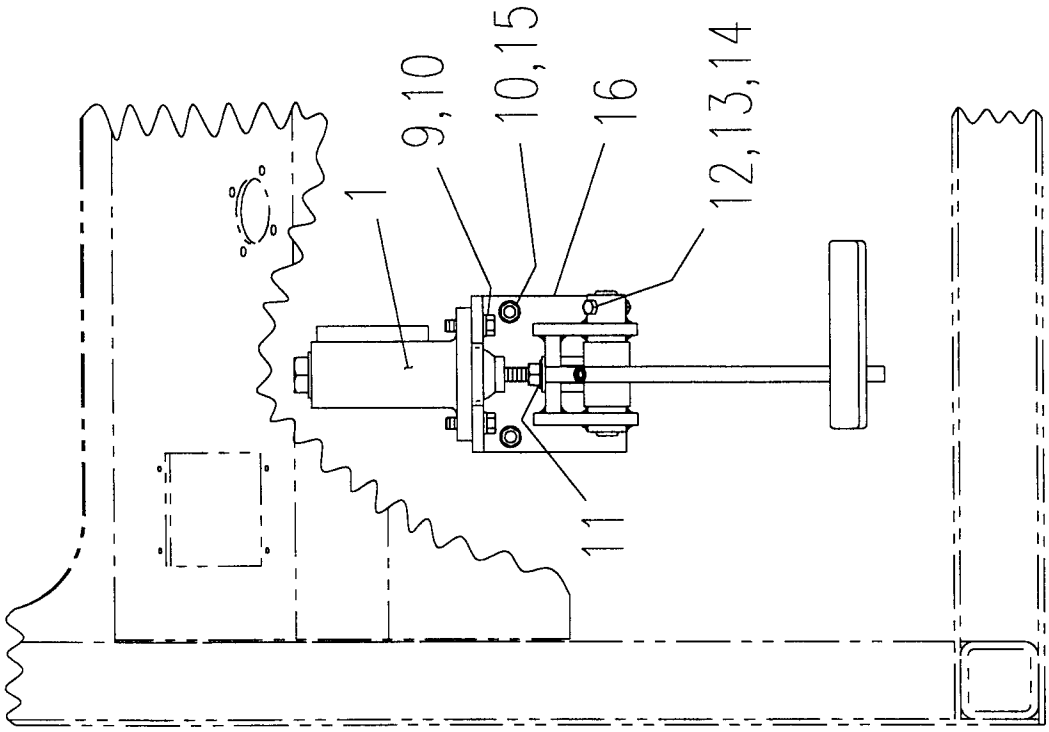
SECTION VIEW OF WEAR PADS FRONT OF SMALL AND LARGE BOOMS



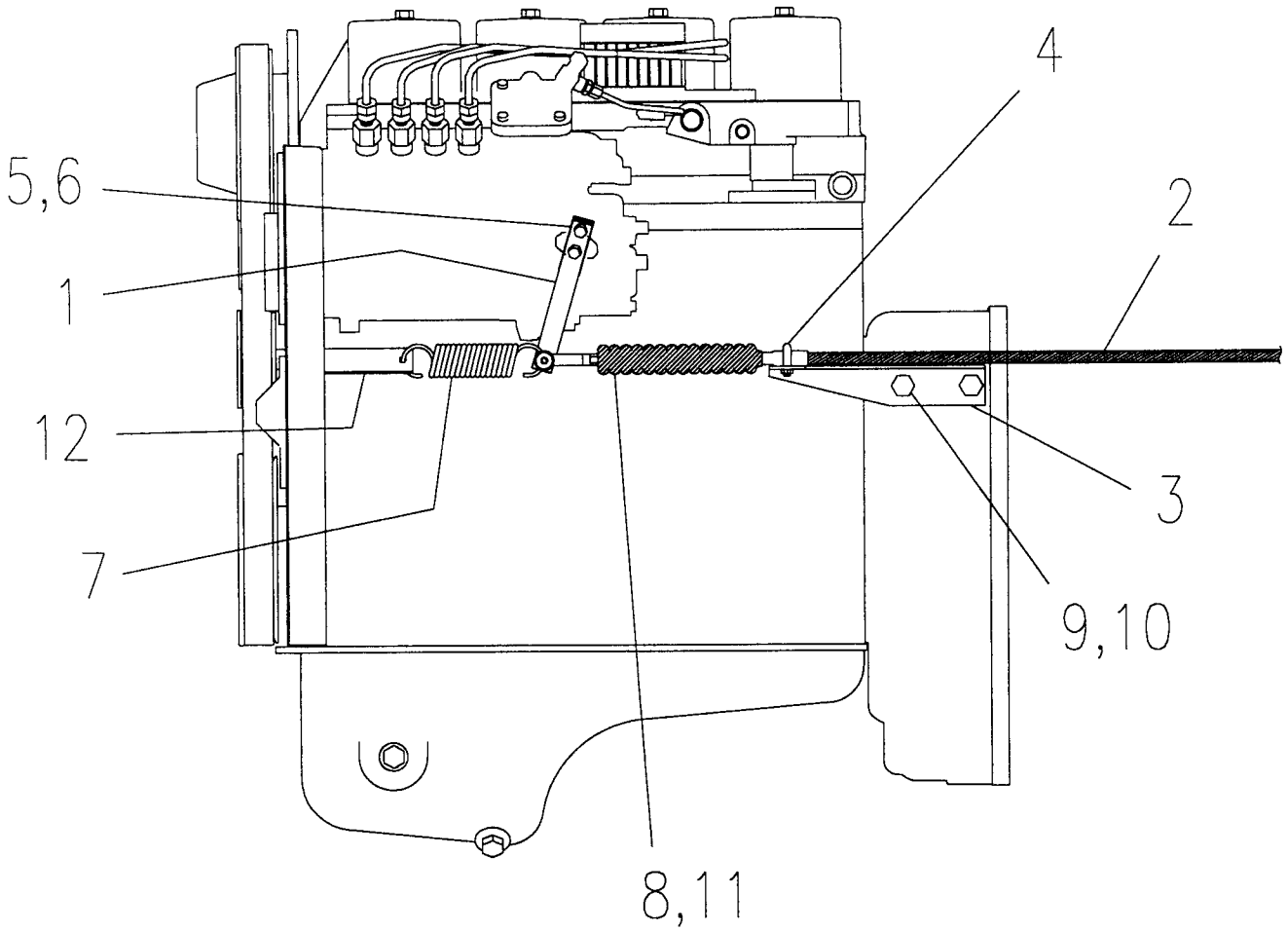
SECTION VIEW OF WEAR PADS AND PIVOT PIN REAR OF SMALL AND LARGE BOOMS

ITEM	NUMBER	DESCRIPTION	REQD
1	4-1816	LARGE BOOM	1
2	4-1817	SMALL BOOM	1
3	3-1154-6	CROSS SHAFT / MAIN PIVOT	1
4	6-5312-40	CAPSCREW 3/4 NF x 5 LG.	1
5	6-6202-12	HEX NUT 3/4 NF	1
6	6-6211-12	LOCKWASHER 3/4	1
7	6-6600-13	THRUSTWASHER 4.00 x 2.50 x .250	2
8	6-6701-06	WASHER / STEEL	1
9	6-6206-24	SELF LOCKING NUT 1 1/2 NF	1
10	7-273-27	CLAMP HALF SET / 3/8 TWIN HOSE	5
11	7-273-23	COVER PLATE / 3/8 HOSE CLAMP	5
12	6-5205-10	CAPSCREW 5/16 NC x 1 1/4 LG.	5
13	2-1191	WEAR PAD / TOP / LG. & SM. BOOM	4
14	6-5208-08	CAPSCREW 1/2 NC x 1 LG.	12
15	6-6211-08	LOCKWASHER 1/2	12
16	2-1209	WEAR PAD / SIDES / LARGE BOOM	2
17	6-5210-10	CAPSCREW 5/8 NC x 1 1/4 LG.	4
18	6-6211-10	LOCKWASHER 5/8	10
19	2-1190	WEAR PAD / BOTTOM / LARGE BOOM	2
20	2-1203	MOUNT / BULKHEAD FITTINGS	1
21	6-5206-04	CAPSCREW 3/8 NC x 1/2 LG.	5
22	6-6211-06	LOCKWASHER 3/8	13
23	6-6301	LUBE FITTING 1/8 NPT STR.	2
24	6-6008-06	FLAT HD. SOCKET SCREW 1/2 NC x 3/4	6
25	2-1189	WEAR PAD / REAR SIDES / SMALL BOOM	2
26	3-1359	ACCESS COVER / TILT VALVE	1
27	3-1366	ACCESS COVER / REAR / LARGE BOOM	1
28	6-5206-06	CAPSCREW 3/8 NC x 3/4 LG.	4
29	6-6212-06	FLATWASHER 3/8	4
30	2-1218-1	CLAMP / 1/2 HOSE	REF
31	6-5206-12	CAPSCREW 3/8 NC x 1 1/2 LG.	4
32	7-296-03	TENSION BUSHING (2 REQ.)	REF
33	6-6275-07	SET SCREW 5/8 NC x 5/8 LG.	2
34	1-1217	POINTER / BOOM ANGLE	1
35	6-5204-08	CAPSCREW 1/4 NC x 1 LG.	1
36	6-6201-04	HEX NUT 1/4 NC	1
37	2-1203-1	COVER PLATE	1
38	4-1881	HOSE GUIDE	1
39	6-6211-07	LOCKWASHER 7/16	2
40	6-6201-07	HEX NUT 7/16 NC	2
41	6-5210-12	CAPSCREW 5/8 NC x 1 1/2 LG	6

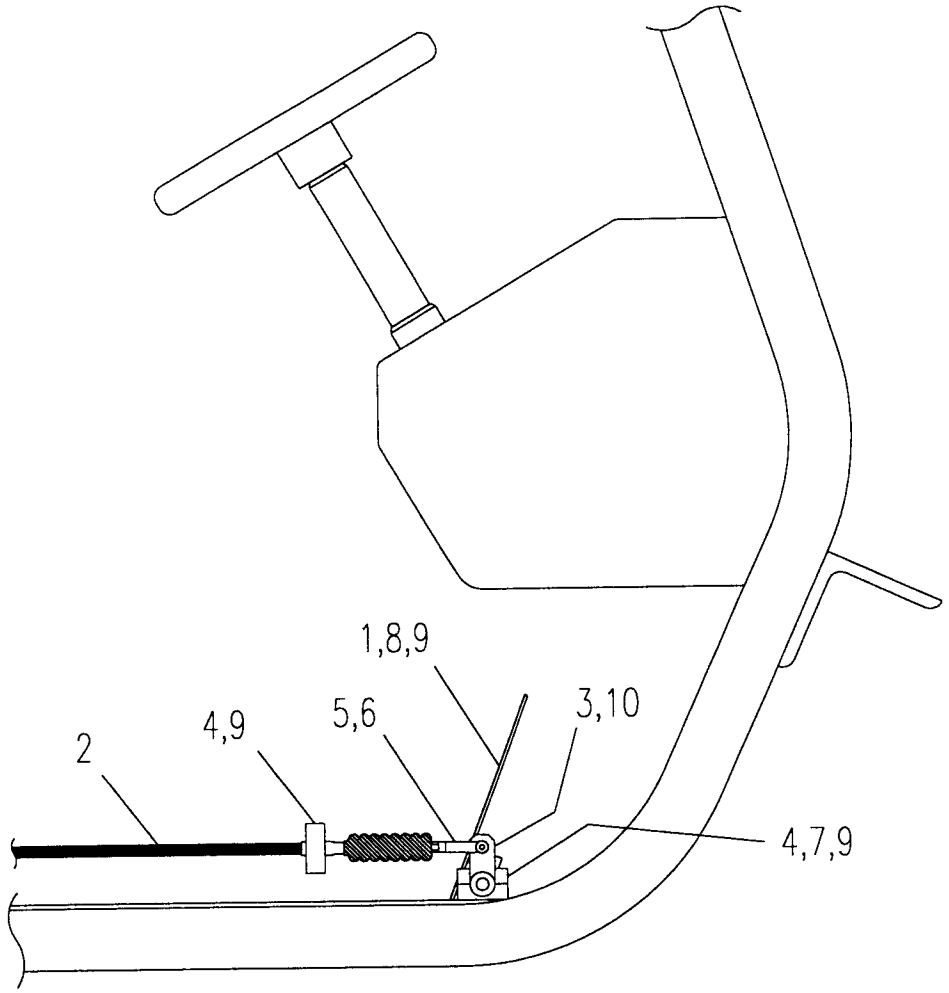

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12,13,14
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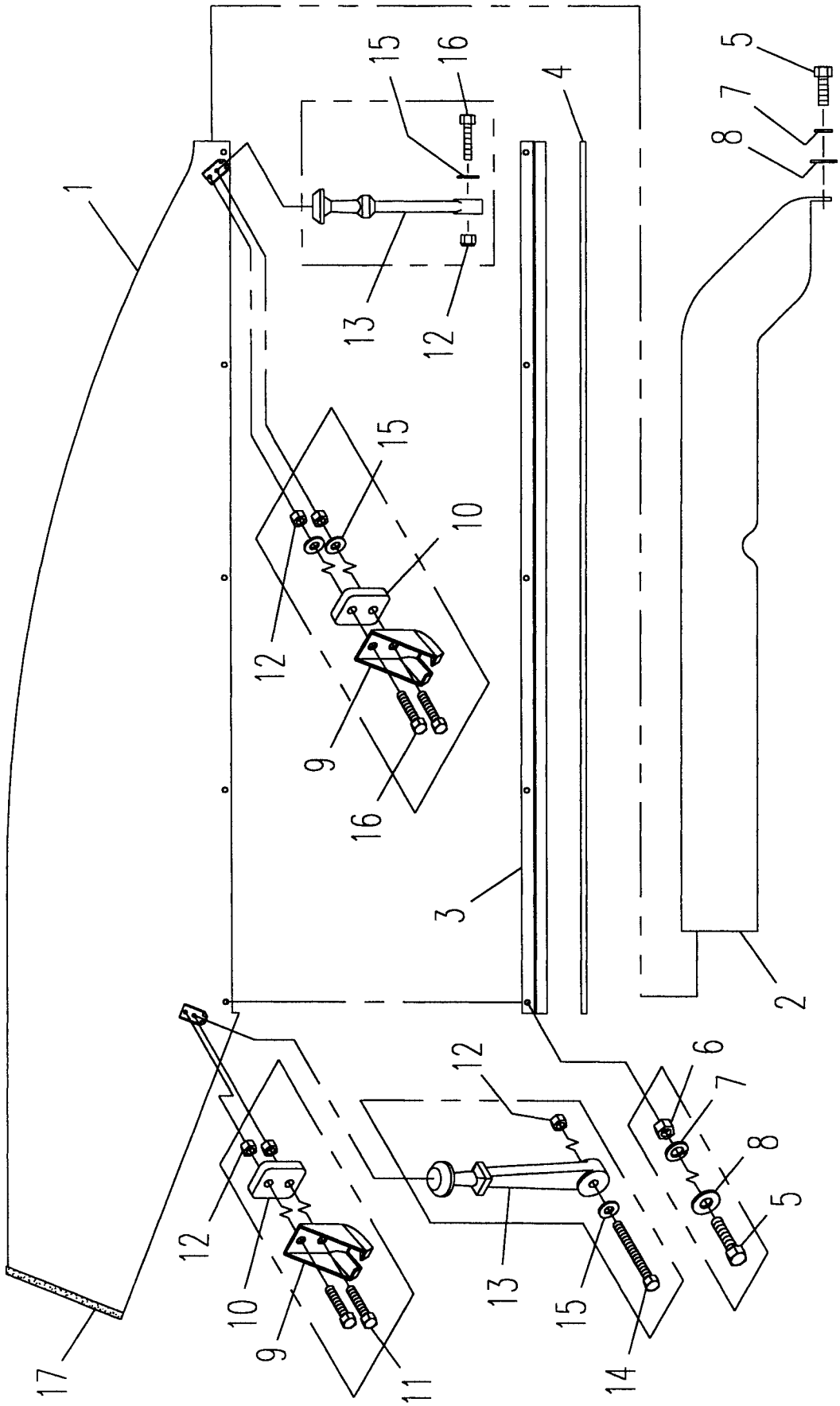
ITEM	NUMBER	DESCRIPTION	REQD
1	7-198-43	ACTUATOR / BRAKE	1
2	3-1148	PEDAL / BRAKE	1
3	6-6307	LUBE FITTING 1/4-28 THD. / 90	1
4	1-1008	YOKE / BRAKE	1
5	1-1009	PUSH ROD	1
6	2-1117	PIN / BRAKE PEDAL	1
7	6-6261-12	CLEVIS PIN 1/2 x 1 1/2 LG.	1
8	6-6245-08	COTTER PIN 5/32 x 1 LG.	1
9	6-5206-10	CAPSCREW 3/8 NC x 1 1/4 LG.	2
10	6-6211-06	LOCKWASHER 3/8	5
11	6-6202-08	HEX NUT 1/2 NF	1
12	6-5205-14	CAPSCREW 5/16 NC x 1 3/4 LG.	1
13	6-6211-05	LOCKWASHER 5/16	1
14	6-6201-05	HEX NUT 5/16 NC	1
15	6-5206-08	CAPSCREW 3/8 NC x 1 LG.	3
16	4-1582	MOUNT / BRAKE PEDAL	1



ITEM	NUMBER	DESCRIPTION	REQD
1	2-1181	ACCELERATOR LEVER	1
2	7-266-02	CABLE / ACCELERATOR	REF
3	3-1374	MOUNT / ACCELERATOR CABLE	1
4	7-194-07	U-BOLT w/ NUTS	1
5	6-8506-12	CAPSCREW 6mm x 1.00 x 12mm LG.	2
6	6-9111-06	LOCKWASHER 6mm	2
7	7-194-20	SPRING / RETURN	1
8	7-194-05	YOKE w/ CLEVIS PIN & COTTER PIN	1
9	6-8512-25	CAPSCREW 12mm x 1.75 x 25mm LG.	2
10	6-9111-12	LOCKWASHER 12mm	2
11	6-6208-04	JAM NUT 1/4-28 (w/ CABLE)	REF
12	1-1204	MOUNT / ACCELERATOR SPRING	1

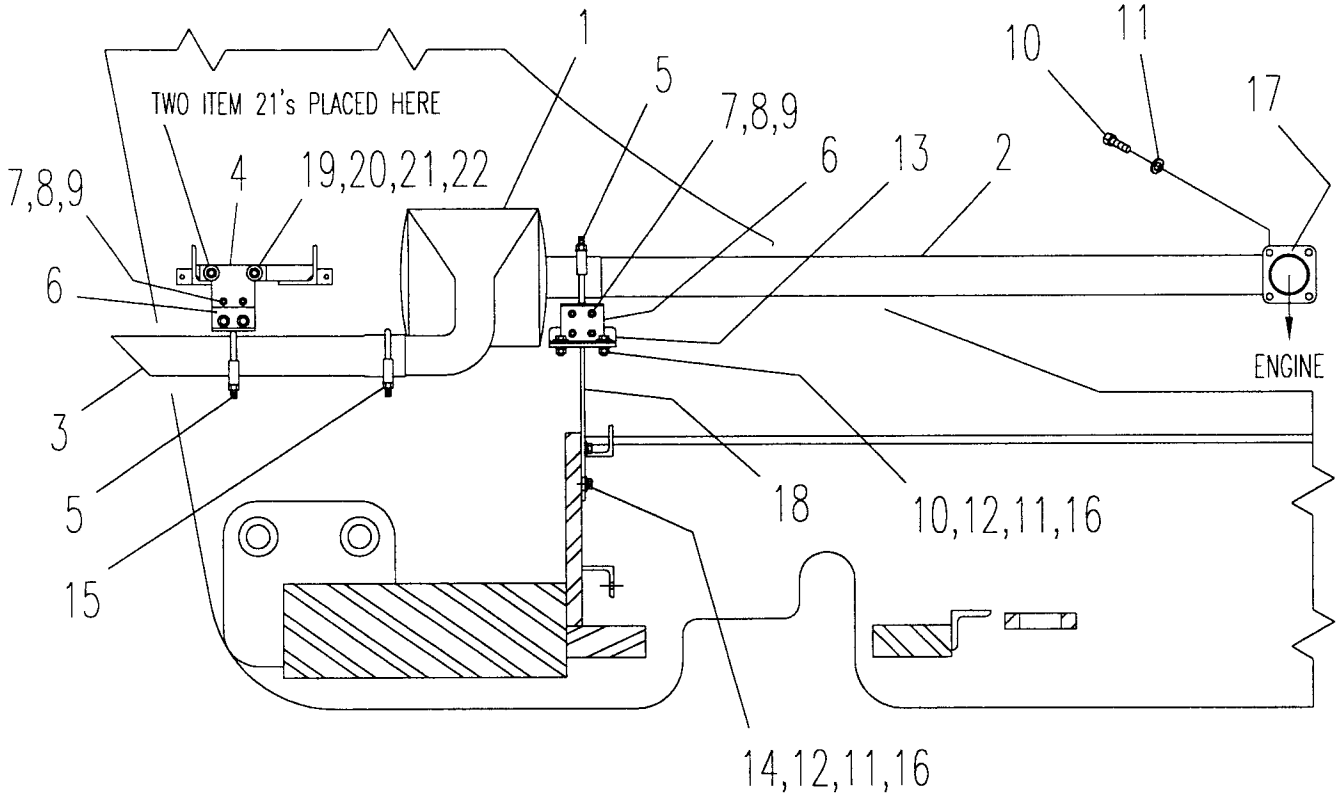


ITEM	NUMBER	DESCRIPTION	REQD
1	3-1080	PEDAL / ACCELERATOR	1
2	7-266-02	CABLE / ACCELERATOR	1
3	3-1380	LINKAGE / ACCELERATOR	1
4	6-5204-08	CAPSCREW 1/4 NC x 1 LG.	6
5	7-194-05	YOKE w/ CLEVIS PIN & COTTER PIN	1
6	6-6208-04	JAM NUT 1/4-28 w/ CABLE	REF
7	6-6306	LUBE FITTING 1/4-28 STR.	2
8	6-5204-06	CAPSCREW 1/4 NC x 3/4 LG.	2
9	6-6211-04	LOCKWASHER 1/4	8
10	7-194-06	SHIM (AS REQ'D.)	2

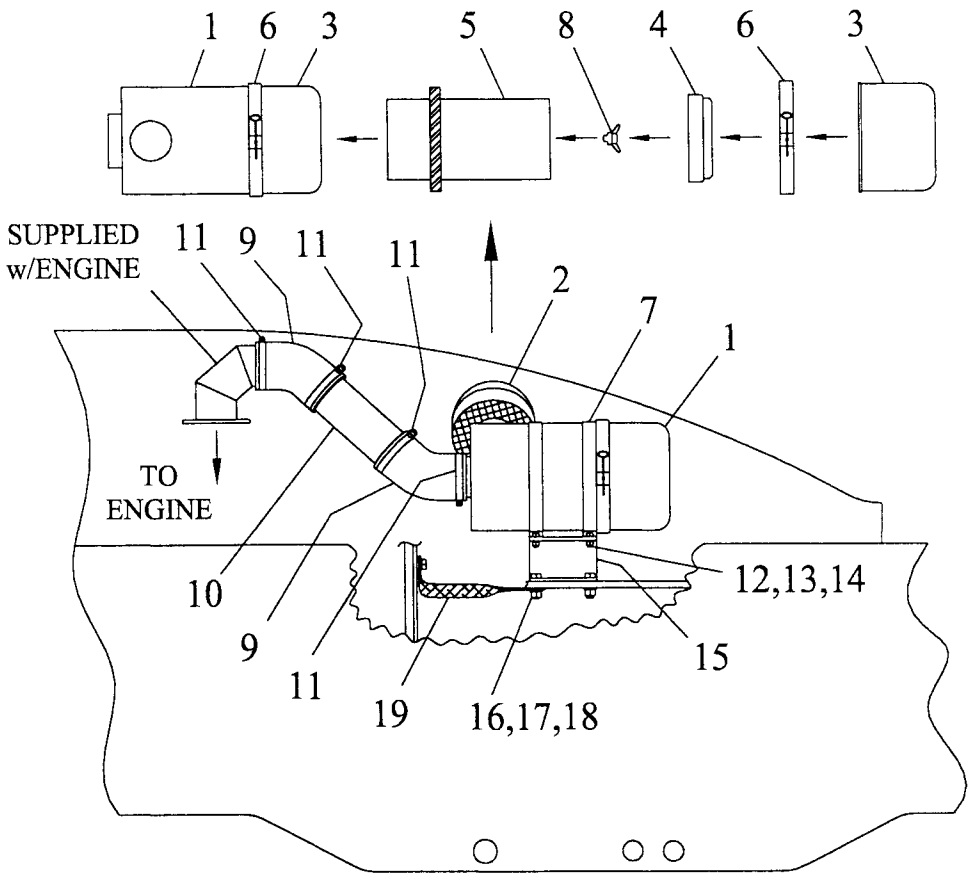


13	PAGE NUMBER	ENGINE ENCLOSURE ASSEMBLY TH528	DRAWING NUMBER	P4-1843

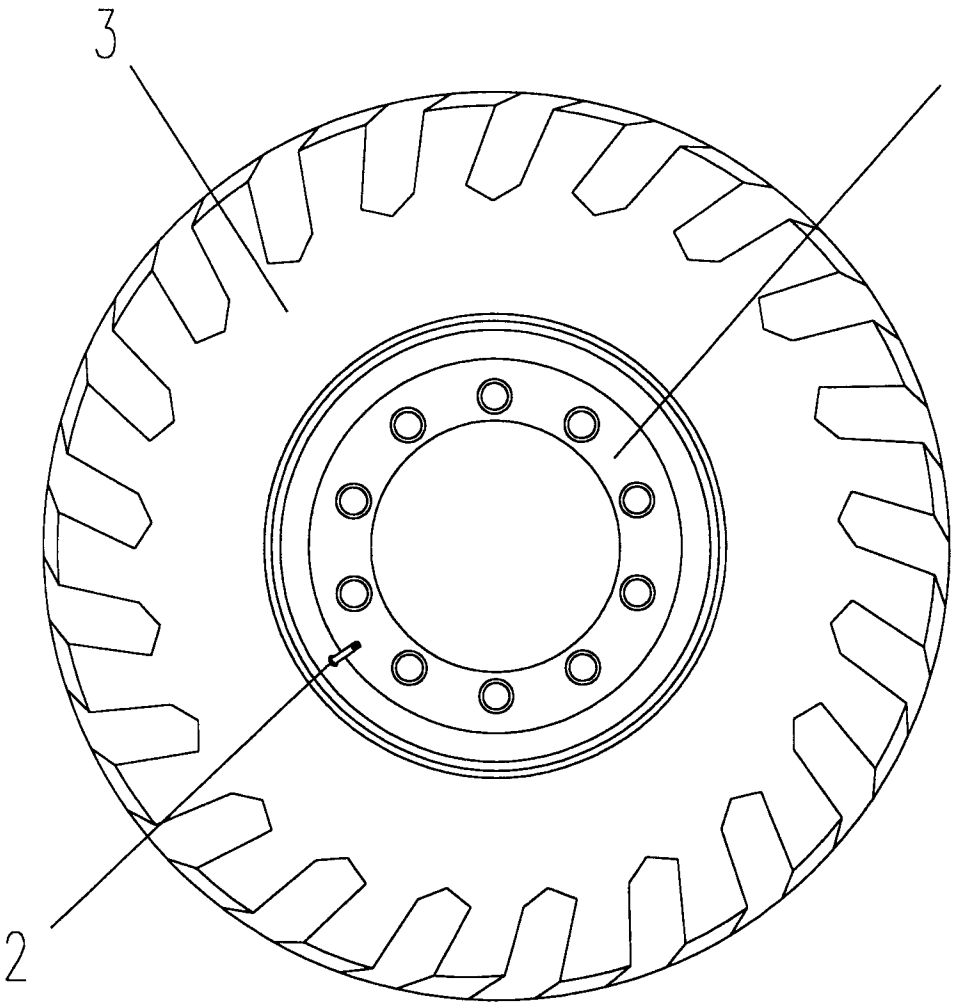
ITEM	NUMBER	DESCRIPTION	REQD
1	4-1828	ENGINE ENCLOSURE / REAR	1
2	4-1827	ENGINE ENCLOSURE / FRONT	1
3	2-1194	SLIDE / REAR HOUSING	2
4	7-194-59	WEAR STRIP	2
5	6-5205-08	CAPSCREW 5/16 NC x 1 LG.	13
6	6-6201-05	HEX NUT 5/16 NC	10
7	6-6211-05	LOCKWASHER 5/16	13
8	6-6212-05	FLATWASHER 5/16	13
9	7-360-01	PLASTIC HOLDER	3
10	1-1214	SPACER / BACKER TAB	4
11	6-5204-08	CAPSCREW 1/4 NC x 1 LG.	4
12	6-6205-04	SELF LOCKING NUT 1/4 NC	9
13	7-360-02	LATCH / RUBBER	3
14	6-5204-16	CAPSCREW 1/4 NC x 2 LG.	2
15	6-6212-04	FLATWASHER 1/4	5
16	6-5204-10	CAPSCREW 1/4 NC x 1 1/4 LG.	3
17	6-9601-320	EDGING 1/4 x 40 LG.	1



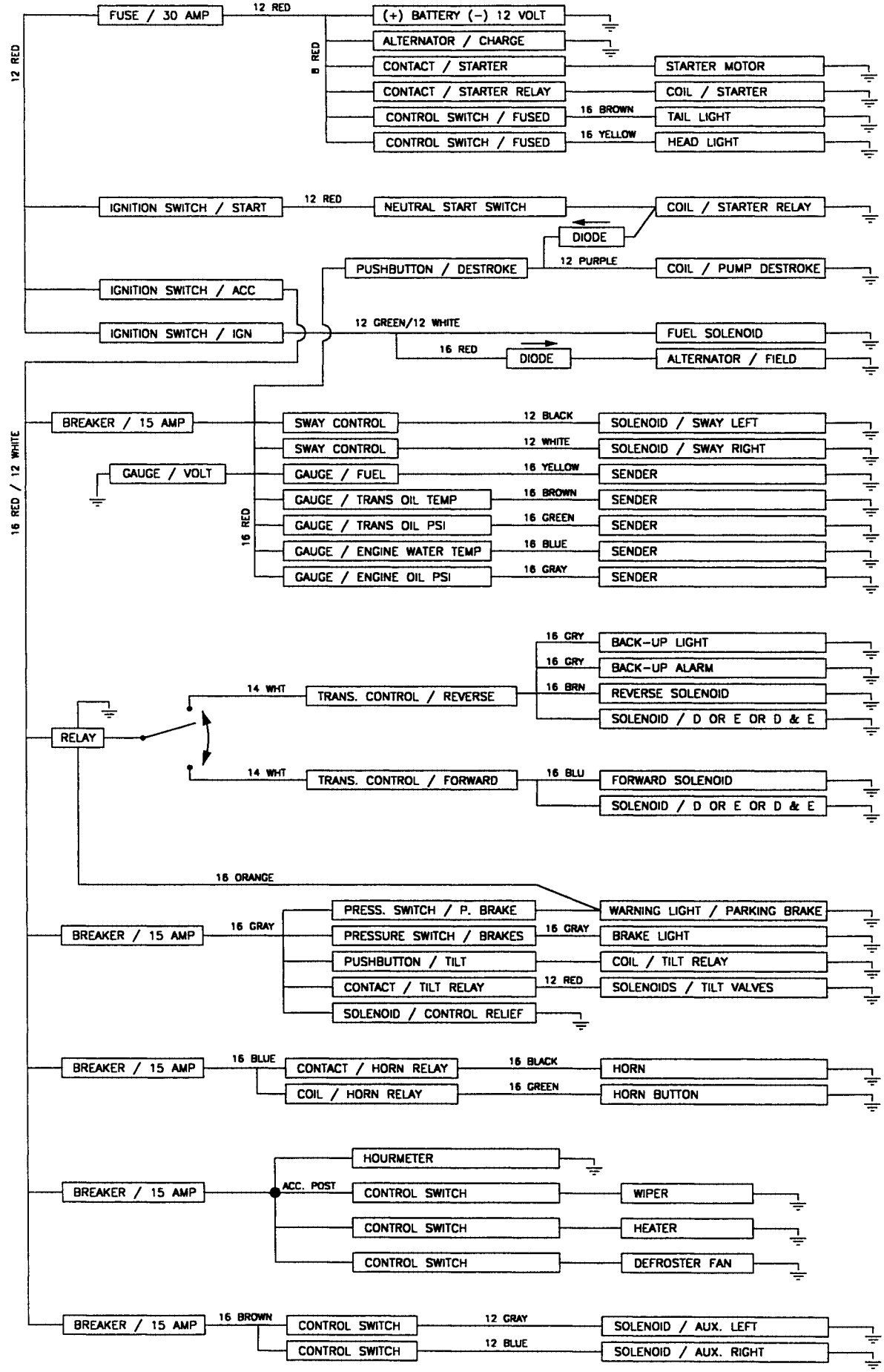
ITEM	NUMBER	DESCRIPTION	REQD
1	7-363-01	MUFFLER	1
2	4-1884	EXHAUST PIPE	1
3	2-1207	TAILPIPE	1
4	1-1216	CLAMP BASE / EXHAUST BRACKET	1
5	2-1170	CLAMP BRACKET / EXHAUST / 2 1/2	2
6	1-1173	FLEX JOINT / EXHAUST BRACKET	2
7	6-5204-08	CAPSCREW 1/4 NC x 1 LG.	8
8	6-6205-04	SELF LOCKING NUT 1/4 NC	8
9	6-6212-04	FLATWASHER 1/4	8
10	6-5206-08	CAPSCREW 3/8 NC x 1 LG.	6
11	6-6211-06	LOCKWASHER 3/8	8
12	6-6212-06	FLATWASHER 3/8	4
13	1-1174	CLAMP BASE / EXHAUST BRACKET	2
14	6-5206-12	CAPSCREW 3/8 NC x 1 1/2 LG.	2
15	7-284-03	MUFFLER CLAMP / 2 1/2	1
16	6-6201-06	HEX NUT 3/8 NC	4
17	7-343-31	GASKET / EXHAUST FLANGE	REF
18	3-1378	BRACKET / EXHAUST	1
19	6-5205-08	CAPSCREW 5/16 NC x 1 LG.	2
20	6-6211-05	LOCKWASHER 5/16	2
21	6-6212-05	FLATWASHER 5/16	3
22	6-6201-05	HEX NUT 5/16 NC	2



ITEM	NUMBER	DESCRIPTION	REQD
1	7-135-01	AIR CLEANER ASSEMBLY	1
2	7-135-03	HOOD	1
3	7-135-10	CUP ASSEMBLY	REF
4	7-135-09	BAFFLE ASSEMBLY	REF
5	7-135-07	ELEMENT ASSEMBLY	REF
6	7-135-08	CLAMP ASSEMBLY / BODY	REF
7	7-135-02	MOUNTING BAND	2
8	7-135-11	THUMB SCREW	REF
9	7-135-23	RUBBER ELBOW 3 ID x 45	2
10	2-1199	TUBE	1
11	6-6252-13	CLAMP / WORM	4
12	6-5205-06	CAPSCREW 5/16 NC x 3/4 LG.	4
13	6-6201-05	HEX NUT 5/16 NC	4
14	6-6211-05	LOCKWASHER 5/16	4
15	3-1364	MOUNT / AIR CLEANER	1
16	6-5208-12	CAPSCREW 1/2 NC x 1 1/2 LG.	2
17	6-6211-08	LOCKWASHER 1/2	2
18	6-6201-08	HEX NUT 1/2 NC	2
19	7-319-17	GROUND STRAP / ENGINE	1



ITEM	NUMBER	DESCRIPTION	REQD
1	7-335-07	WHEEL	1
2	7-286-01	VALVE STEM / AIR-CHLORIDE-FOAM	1
3	7-335-05	TIRE	1
4	7-335-08	TIRE & WHEEL ASSY / RH	REF
5	7-335-09	TIRE & WHEEL ASSY / LH	REF

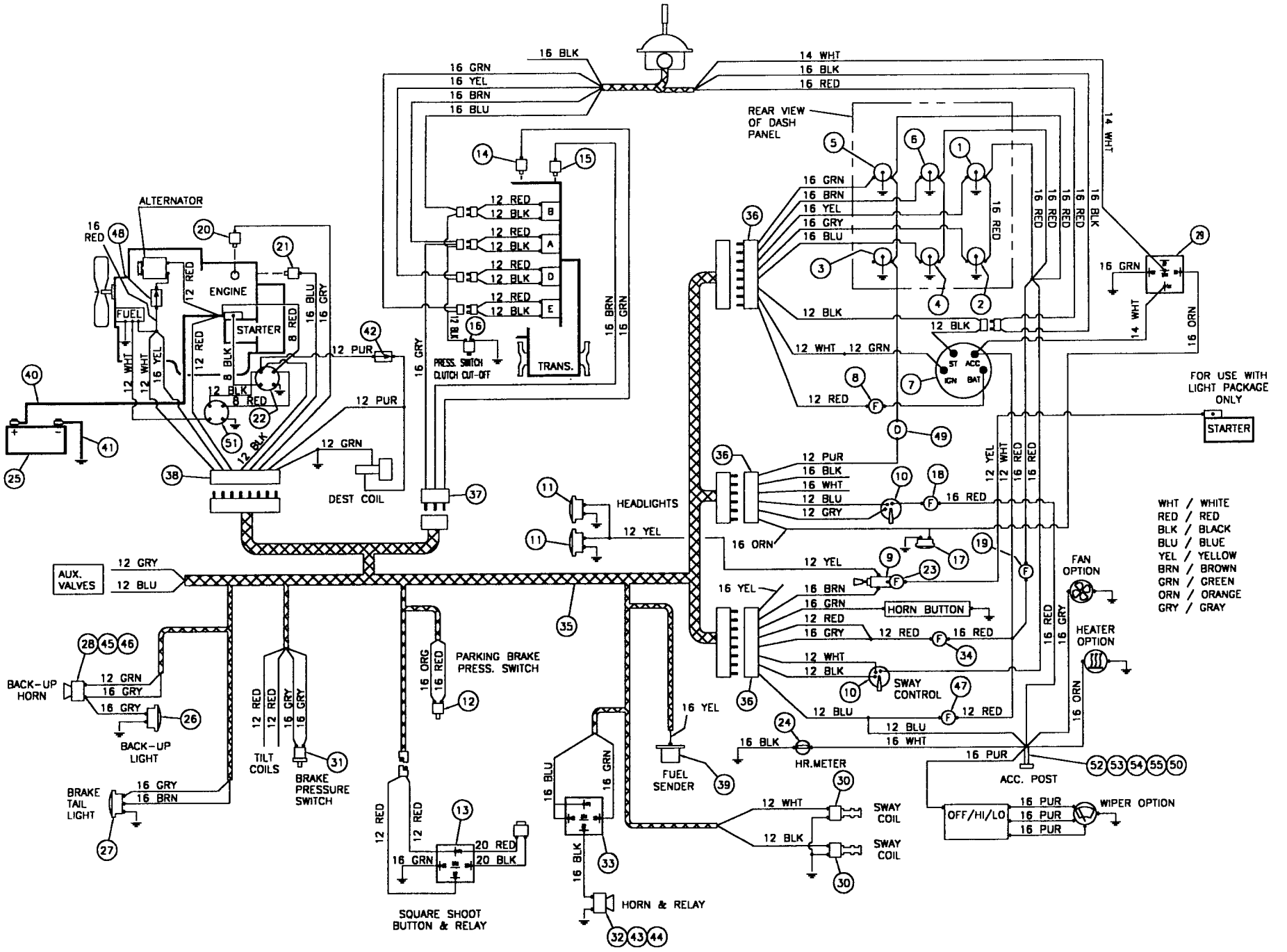


DRAWING NUMBER P4-2021	ELECTRIC SCHEMATIC TH528	PAGE NUMBER 17

PAGE NUMBER 18

WIRING DIAGRAM TH528

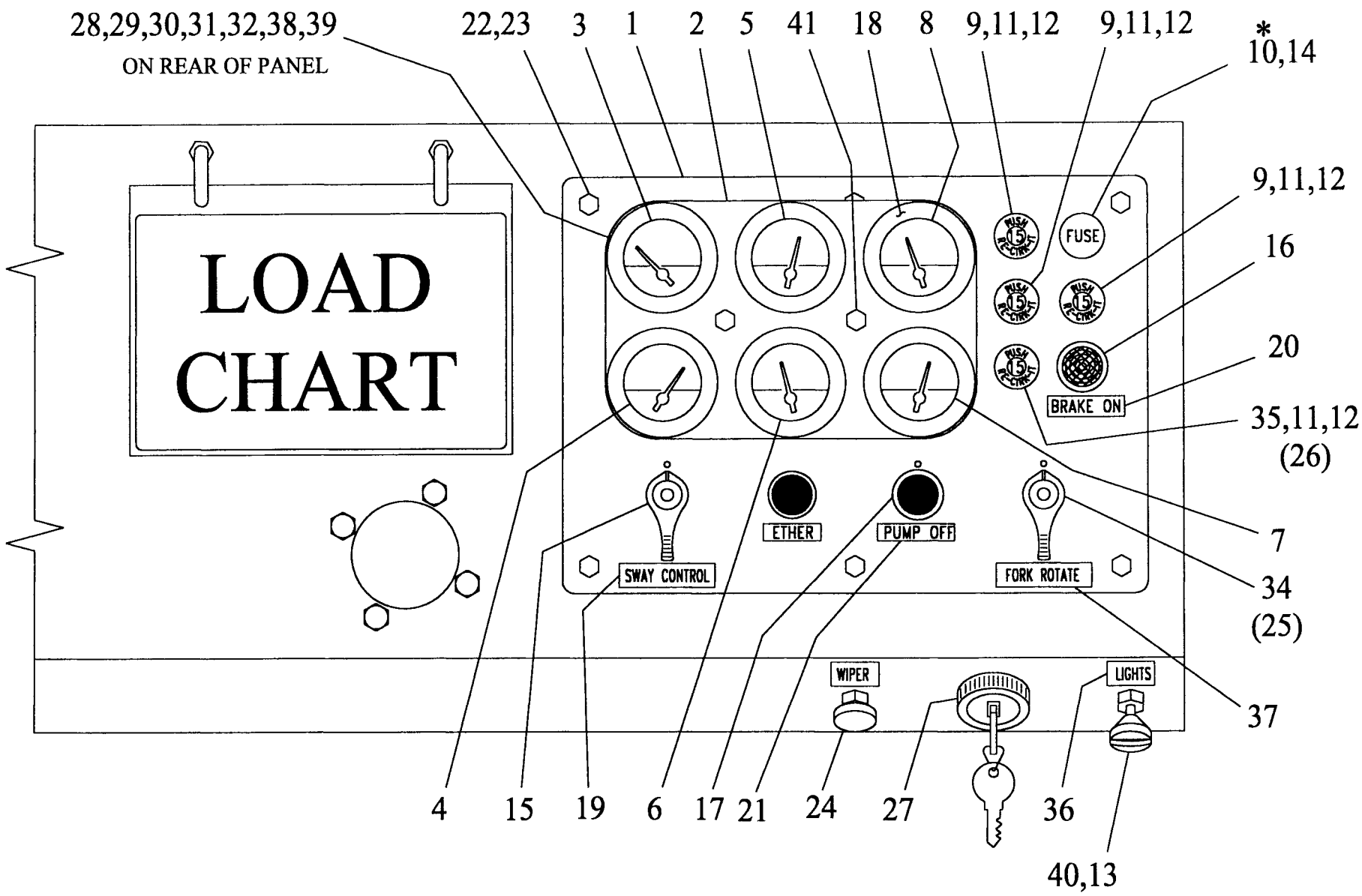
DRAWING NUMBER P1-1004



ITEM	NUMBER	DESCRIPTION	REQD
1	7-172-02	GAGE / FUEL	REF
2	7-172-04	GAGE / ENGINE OIL PRESSURE	REF
3	7-172-10	GAGE / VOLTMETER	REF
4	7-172-08	GAGE / ENGINE WATER TEMP.	REF
5	7-172-11	GAGE / TRANSMISSION OIL PRESSURE	REF
6	7-172-06	GAGE / TRANSMISSION OIL TEMP.	REF
7	7-127-10	SWITCH / IGNITION / KEY	REF
8	7-268-01	FUSE HOLDER / MAIN / IGNITION	REF
9	7-319-02	SWITCH / HEADLIGHTS	REF
10	7-127-04	SWITCH / SWAY-ROTATE	REF
11	7-338-01	HEADLIGHT	REF
12	7-303-02	PRESSURE SWITCH / PARKING BRAKE	REF
13	7-338-02	RELAY / SQUARE SHOOT	1
14	7-172-16	SENDER / TRANS. OIL PRESSURE	REF
15	7-172-17	SENDER / TRANS. OIL TEMP.	REF
16	7-303-03	PRESSURE SWITCH / CLUTCH CUT-OFF	REF
17	7-127-05	LIGHT / WARNING	REF
18	7-101-01	CIRCUIT BREAKER / 15 AMP.	REF
19	7-101-01	CIRCUIT BREAKER / 15 AMP.	REF
20	7-172-05	SENDER / ENGINE OIL PRESSURE	REF
21	7-172-09	SENDER / ENGINE WATER TEMP.	REF
22	7-183-18	RELAY / STARTER	REF
23	7-117-03	FUSE / 20 AMP	REF
24	7-350-01	HOURMETER	1
25	7-355-01	BATTERY / 12 VOLT	REF
26	7-136-02	LIGHT / BACK-UP	REF
27	7-136-03	LIGHT / TAIL-BRAKE	REF
28	7-375-01	BACK-UP ALARM	1
29	7-338-02	RELAY / PARKING BRAKE	1
30	7-244-12	COIL / SWAY CONTROL	REF
31	7-206-03	PRESSURE SWITCH / BRAKE LIGHT	REF
32	7-369-01	HORN	1
33	7-206-04	RELAY / HORN	1
34	7-101-01	CIRCUIT BREAKER / 15 AMP.	REF
35	4-1876	HARNESS / MAIN POWER / VALVE	1
36	4-1886	HARNESS / INSTRUMENT PANEL	1
37	4-1878	HARNESS / TRANSMISSION	1
38	4-1877	HARNESS / ENGINE	1
39	7-172-03	SENDER / FUEL	REF
40	6-7801-180B	BATTERY CABLE / RED / POSITIVE	REF
41	6-7806-32B	BATTERY CABLE / BLUE / NEGATIVE	REF
42	7-281-01	DIODE / PUMP DESTROKE	REF
43	6-5204-04	CAPSCREW 1/4 NC x 1/2 LG.	1
44	6-6211-04	LOCKWASHER 1/4	1
45	6-5205-04	CAPSCREW 5/16 NC x 1/2 LG.	2
46	6-6211-05	LOCKWASHER 5/16	2
47	7-101-01	CIRCUIT BREAKER / 15 AMP.	REF
48	7-281-01	DIODE / ALTERNATOR	REF
49	7-319-03	PUSHBUTTON / PUMP DESTROKE	REF
50	6-6286-07	LOCKWASHER #10	2

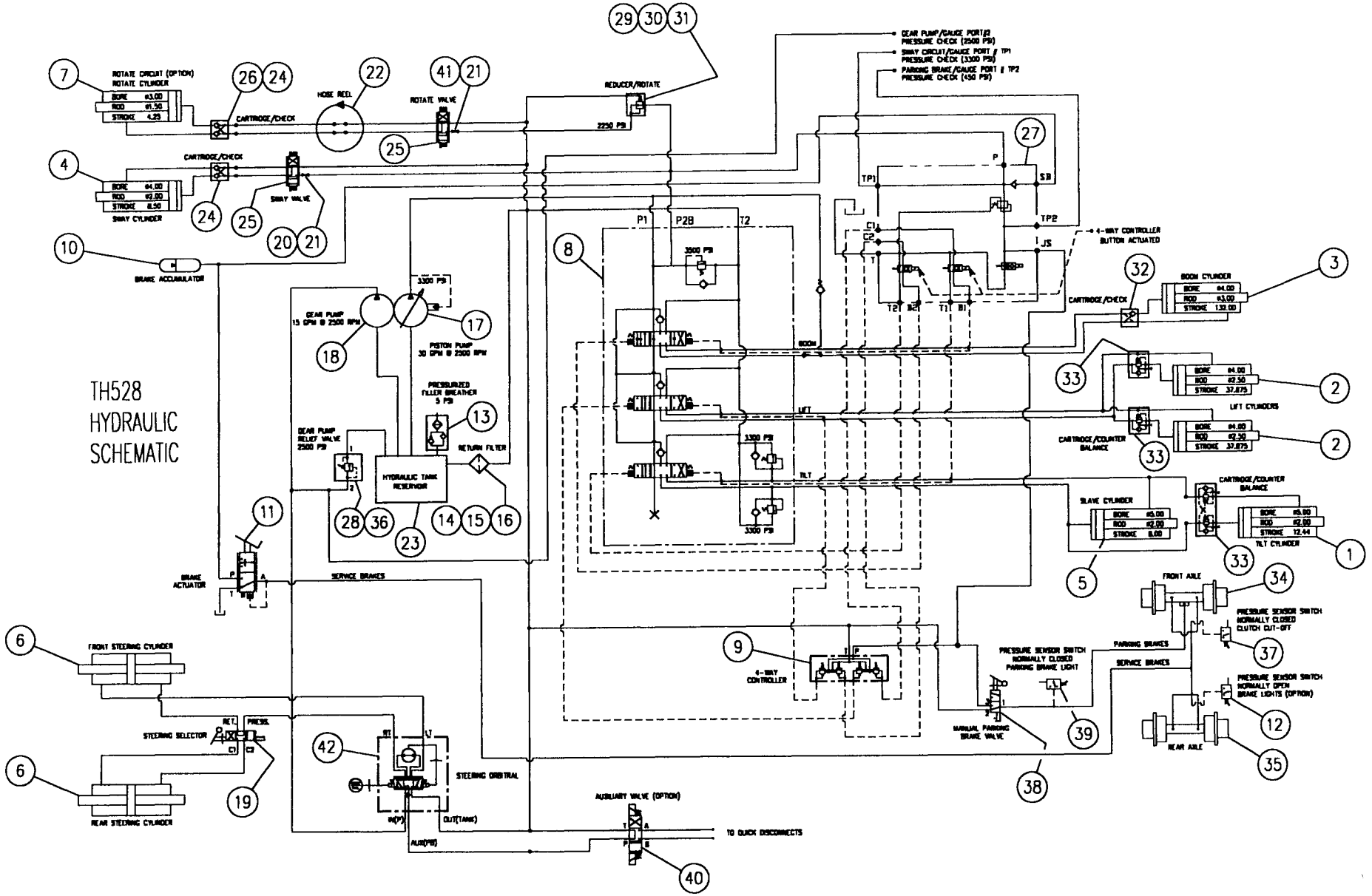
ITEM	NUMBER	DESCRIPTION	REQD
51	7-319-21	RELAY / STARTER	REF
52	7-269-107	JUNCTION STUD	1
53	6-6284-07	MACHINE SCREW #10-32 x 1/2 LG.	2
54	6-6286-06	HEX NUT #10-32	2
55	6-6201-06	HEX NUT 3/8 NC	1

NOTES

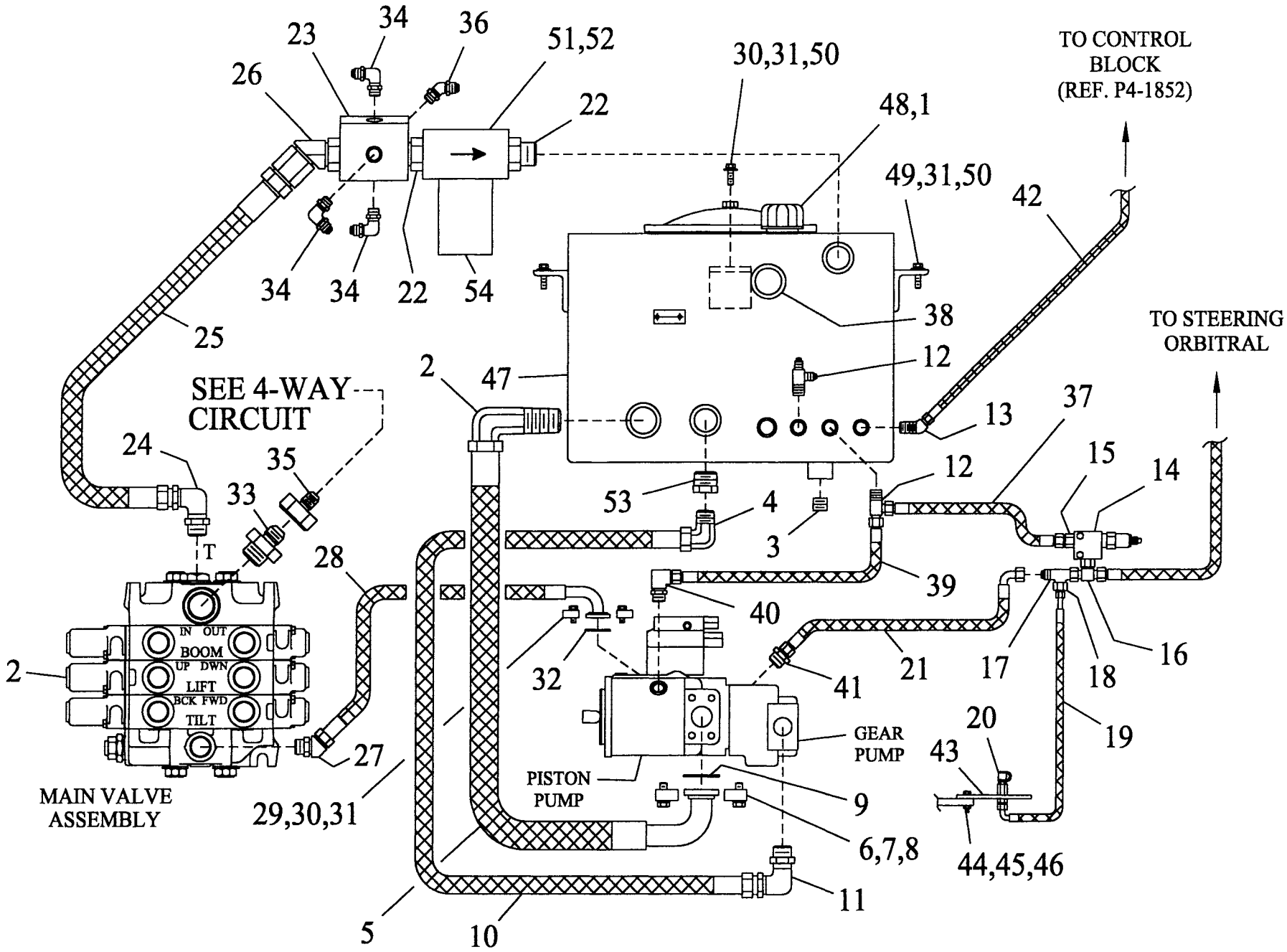


"( )" DENOTES A STANDARD ITEM
" * " CONSISTS OF ONE ITEM #33 - FUSE HOLDER w/PLUG

ITEM	NUMBER	DESCRIPTION	REQD
1	3-1226	INSTRUMENT PANEL	1
2	2-1062	GAGE COVER	1
3	7-172-02	GAGE / FUEL	1
4	7-172-04	GAGE / ENGINE OIL PRESSURE	1
5	7-172-06	GAGE / TRANS. OIL TEMP.	1
6	7-172-08	GAGE / ENGINE WATER TEMP.	1
7	7-172-10	GAGE / VOLTMETER	1
8	7-172-11	GAGE / TRANS. OIL PRESSURE	1
9	7-101-01	CIRCUIT BREAKER / 15 AMP	3
10	7-268-01	HOLDER / MAIN POWER / IGNITION	1
11	7-101-02	CLIP / CIRCUIT BREAKER	3
12	7-101-03	RUBBER BOOT / CIRCUIT BREAKER	3
13	7-117-01	FUSE / 15 AMP.	REF
14	7-117-02	FUSE / 30 AMP.	1
15	7-127-04	SWITCH / SWAY CONTROL	1
16	7-127-05	LIGHT / WARNING	1
17	7-319-03	SWITCH / PUSHBUTTON	1
18	1-2006	SEAL RING / GAGE	6
19	3-1228-1	DECAL / SWAY CONTROL	1
20	3-1228-2	DECAL / BRAKE-ON	1
21	3-1228-3	DECAL / PUMP-OFF	1
22	6-6211-04	LOCKWASHER 1/4	6
23	6-5204-04	CAPSCREW 1/4 NC x 1/2 LG.	5
24	7-293-01	SWITCH / WINDSHIELD WIPER	REF
25	7-194-13	PLUG BUTTON 3/8	1
26	7-194-29	PLUG BUTTON 5/8	1
27	7-127-10	SWITCH / IGNITION KEY	1
28	1-1088	MOUNT	1
29	7-269-60	PLASTIC CLAMP	1
30	6-6284-07	MACHINE SCREW #10-32 x 1/2 LG.	2
31	6-6286-06	HEX NUT #10-32	2
32	6-6286-02	HEX NUT #8-32 SS	2
33	1-2031	FUSE HOLDER w/PLUG (UNIVERSAL)	REF
34	7-127-04	SWITCH / FORK ROTATE	REF
35	7-101-01	CIRCUIT BREAKER / 15 AMP / OPTION	REF
36	1-1149	DECAL / LIGHTS	REF
37	3-1228-4	DECAL / FORK ROTATE	REF
38	6-5204-08	CAPSCREW 1/4 NC x 1 LG.	1
39	6-6201-04	HEX NUT 1/4 NC	1
40	7-127-12	SWITCH / HEADLIGHT	REF
41	6-5204-06	CAPSCREW 1/4 NC x 3/4 LG.	2


TH528
HYDRAULIC
SCHEMATIC
ROTATE CIRCUIT (OPTION)
ROTATE CYLINDER
CARTRIDGE/CHECK
HOSE REEL
ROTATE VALVE
REDUCER/ROTATE
SWAY CYLINDER
SWAY VALVE
BRAKE ACCUMULATOR
GEAR PUMP
PISTON PUMP
PRESSURIZED FILLER BREATHER
RETURN FILTER
HYDRAULIC TANK RESERVOIR
BRAKE ACTUATOR
SERVICE BRAKES
FRONT STEERING CYLINDER
REAR STEERING CYLINDER
STEERING SELECTOR
STEERING ORBITRAL
AUXILIARY VALVE (OPTION)
TO QUICK DISCONNECTS
4-WAY CONTROLLER
BOOM CYLINDER
LIFT CYLINDERS
TILT CYLINDER
SLAVE CYLINDER
CARTRIDGE/COUNTER BALANCE
FRONT AXLE
REAR AXLE
PARKING BRAKES
MANUAL PARKING BRAKE VALVE
PRESSURE SENSOR SWITCH NORMALLY CLOSED PARKING BRAKE LIGHT
PRESSURE SENSOR SWITCH NORMALLY CLOSED CLUTCH CUT-OFF
PRESSURE SENSOR SWITCH NORMALLY OPEN BRAKE LIGHTS (OPTION)

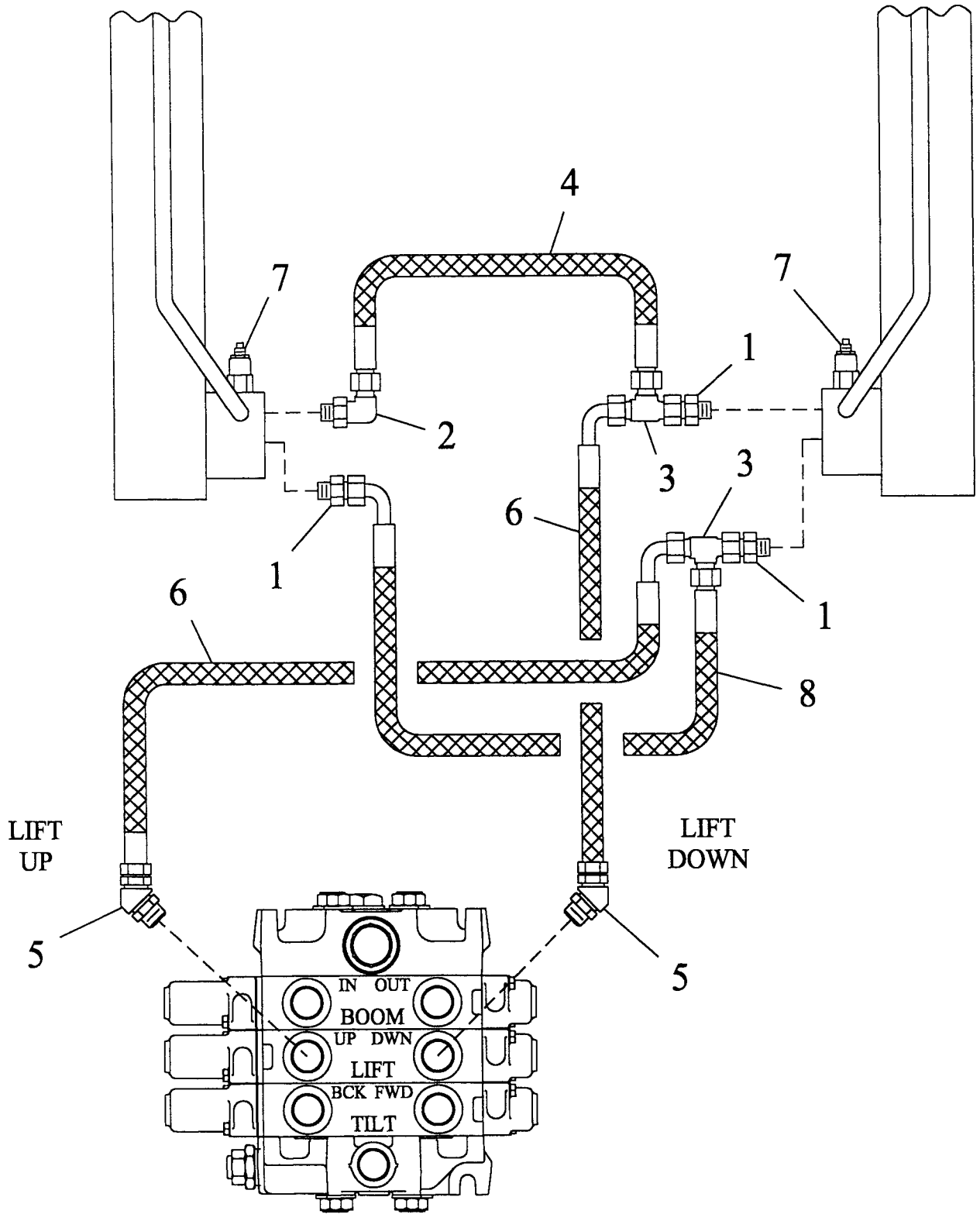
ITEM	NUMBER	DESCRIPTION	REQD
1	7-316-192	CYLINDER / TILT	REF
2	7-316-195	CYLINDER / LIFT (2)	REF
3	7-316-191	CYLINDER / BOOM	REF
4	7-316-194	CYLINDER / SWAY	REF
5	7-316-193	CYLINDER / SLAVE	REF
6	7-229-696	CYLINDER / STEERING (2)	REF
7	7-379-01	CYLINDER / ROTATE	REF
8	7-358-11	VALVE ASSEMBLY / 3 SECTION	REF
9	7-358-03	CONTROLLER / 4-WAY	REF
10	7-256-25	ACCUMULATOR / BRAKE	REF
11	7-198-43	ACTUATOR / BRAKE	REF
12	7-206-03	PRESSURE SWITCH / BRAKE LIGHTS	REF
13	7-354-01	FILLER / BREATHER / PRESSURIZED	REF
14	7-256-23	FILTER / RETURN	REF
15	7-272-10	GAGE / RETURN FILTER	REF
16	7-256-05	ELEMENT / RETURN FILTER	REF
17	7-345-56	PUMP / PISTON / 30 GPM	REF
18	7-345-57	PUMP / GEAR / 15 GPM	REF
19	7-359-02	SELECTOR VALVE / STEERING	REF
20	1-1219	RESTRICTOR FITTING	REF
21	1-1093-1	RESTRICTOR PLUG (.040)	REF
22	7-292-01	HOSE REEL / RH / ROTATE	REF
23	4-1823	OIL RESERVOIR	REF
24	7-234-18	CARTRIDGE / CHECK (2)	REF
25	7-244-31	VALVE / ELECTRIC 4-WAY (2)	REF
26	7-234-35	VALVE / CHECK	REF
27	7-234-90	CONTROL BLOCK ASSEMBLY	REF
28	7-356-01	VALVE / RELIEF / GEAR PUMP	REF
29	7-234-86	VALVE / REDUCING	REF
30	7-234-85	VALVE BODY / for REDUCING VALVE	REF
31	7-234-15	CARTRIDGE / for REDUCING VALVE	REF
32	7-234-55	CARTRIDGE / CHECK	REF
33	7-234-53	CARTRIDGE / COUNTER BALANCE (4)	REF
34	7-229-377	AXLE ASSEMBLY / FRONT	REF
35	7-229-378	AXLE ASSEMBLY / REAR	REF
36	7-356-11	CARTRIDGE / RELIEF / GEAR PUMP	REF
37	7-303-02	PRESSURE SWITCH / CLUTCH CUT-OFF	REF
38	7-358-08	VALVE / MANUAL PARKING BRAKE	REF
39	7-303-02	PRESSURE SWITCH / PARKING BRK. LT.	REF
40	7-366-01	VALVE ASSY / AUXILIARY HYDRAULICS	REF
41	1-1221	RESTRICTOR FITTING / 90	REF
42	7-256-71	ORBITRAL / STEERING	REF


TO CONTROL BLOCK (REF. P4-1852)
TO STEERING ORBITRAL
SEE 4-WAY CIRCUIT
MAIN VALVE ASSEMBLY
IN OUT
BOOM UP DWN
LIFT
BCK FWD
TILT
PISTON PUMP
GEAR PUMP
T
23
34
36
51,52
26
22
30,31,50
48,1
49,31,50
42
34
34
22
54
38
25
2
47
12
13
37
24
35
33
53
4
3
12
15
14
28
39
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32
41
21
17
18
16
2
27
29,30,31
20
19
43
9
6,7,8
44,45,46
5
10
11

ITEM	NUMBER	DESCRIPTION	REQD
1	6-6284-07	MACHINE SCREW #10-32 x 1/2 LG.	6
2	6-6428-13	FITTING / 24 NPT x 24 JIC 90 LONG	1
3	6-6408-07	FITTING / 16 NPT HOLLOW HEX PLUG	1
4	6-6427-21	FITTING / 16 NPT x 16 JIC 90	1
5	6-7190-84	HOSE / 24 x 24-90 SF x 42 LG.	1
6	7-107-04	SPLIT FLANGE / 1 1/2 / HALF ONLY	2
7	6-5208-10	CAPSCREW 1/2 NC x 1 1/4 LG.	4
8	6-6214-08	LOCKWASHER 1/2 HI-COLLAR	REF
9	7-209-121	O-RING / 1 1/2 SPLIT FLANGE	1
10	6-7008-43	HOSE / 16 x 16 x 21 1/2 LG.	1
11	6-6453-19	FITTING / 16 OR x 16 JIC 90	1
12	6-6432-15	FITTING / 08 NPT x 08 JIC RN-TEE	2
13	6-6426-10	FITTING / 08 NPT x 06 JIC 45	1
14	7-356-01	RELIEF VALVE / GEAR PUMP	1
15	6-6450-12	FITTING / 08 OR x 08 JIC STR.	1
16	6-6454-06	FITTING / 08 OR x 08 JIC BR-TEE	1
17	6-6481-06	FITTING / 08 JIC SW-RN-TEE	1
18	6-6495-01	FITTING / 08 JIC x 04 JIC REDUCER	1
19	6-7022-172	HOSE / 04 x 04-90 x 86 LG.	1
20	7-256-27	MALE PRESSURE CHECK	1
21	6-7024-60	HOSE / 08 x 08-90 x 30 LG.	1
22	6-6436-01	FITTING / 20 OR x 20 NPT STR.	2
23	3-1376	MANIFOLD BLOCK	1
24	6-6453-19	FITTING / 16 OR x 16 JIC 90	1
25	6-7008-146	HOSE / 16 x 16 x 73 LG.	1
26	6-6452-21	FITTING / 20 OR x 16 JIC 45	1
27	6-6452-08	FITTING / 12 OR x 12 JIC 45	1
28	6-7156-188	HOSE / 12 x 16-90 SF x 94 LG.	1
29	7-158-36	SPLIT FLANGE / 1 IN. / HALF ONLY	2
30	6-5206-10	CAPSCREW 3/8 NC x 1 1/4 LG.	5
31	6-6211-06	LOCKWASHER 3/8	7
32	7-209-67	O-RING / 1 IN. SPLIT FLANGE	1
33	6-6450-33	FITTING / 16 OR x 10 JIC STR.	1
34	6-6453-09	FITTING / 08 OR x 08 JIC 90	3
35	6-6495-04	FITTING / 10 JIC x 06 JIC REDUCER	1
36	6-6452-04	FITTING / 08 OR x 08 JIC 45	1
37	6-7004-70	HOSE / 08 x 08 x 35 LG.	1
38	7-161-01	SIGHT GAGE / OIL RESERVOIR	1
39	6-7014-88	HOSE / 08 x 10 x 44 LG.	1
40	6-6453-12	FITTING / 10 OR x 10 JIC 90	1
41	6-6450-14	FITTING / 12 0R x 08 JIC STR.	1
42	6-7003-222	HOSE / 06 x 06 x 111 LG.	REF
43	1-1215	MOUNT / PRESSURE CHECK PORT	1
44	6-5204-10	CAPSCREW 1/4 NC x 1 1/4 LG.	2
45	6-6211-04	LOCKWASHER 1/4	2
46	6-6201-04	HEX NUT 1/4 NC	2
47	4-1823	HYDRAULIC OIL RESERVOIR	1
48	7-354-01	CAP / FILLER-BREATHER	1
49	6-5206-12	CAPSCREW 3/8 NC x 1 1/2 LG.	2
50	6-6212-06	FLATWASHER 3/8	3
51	7-256-23	FILTER / RETURN	1

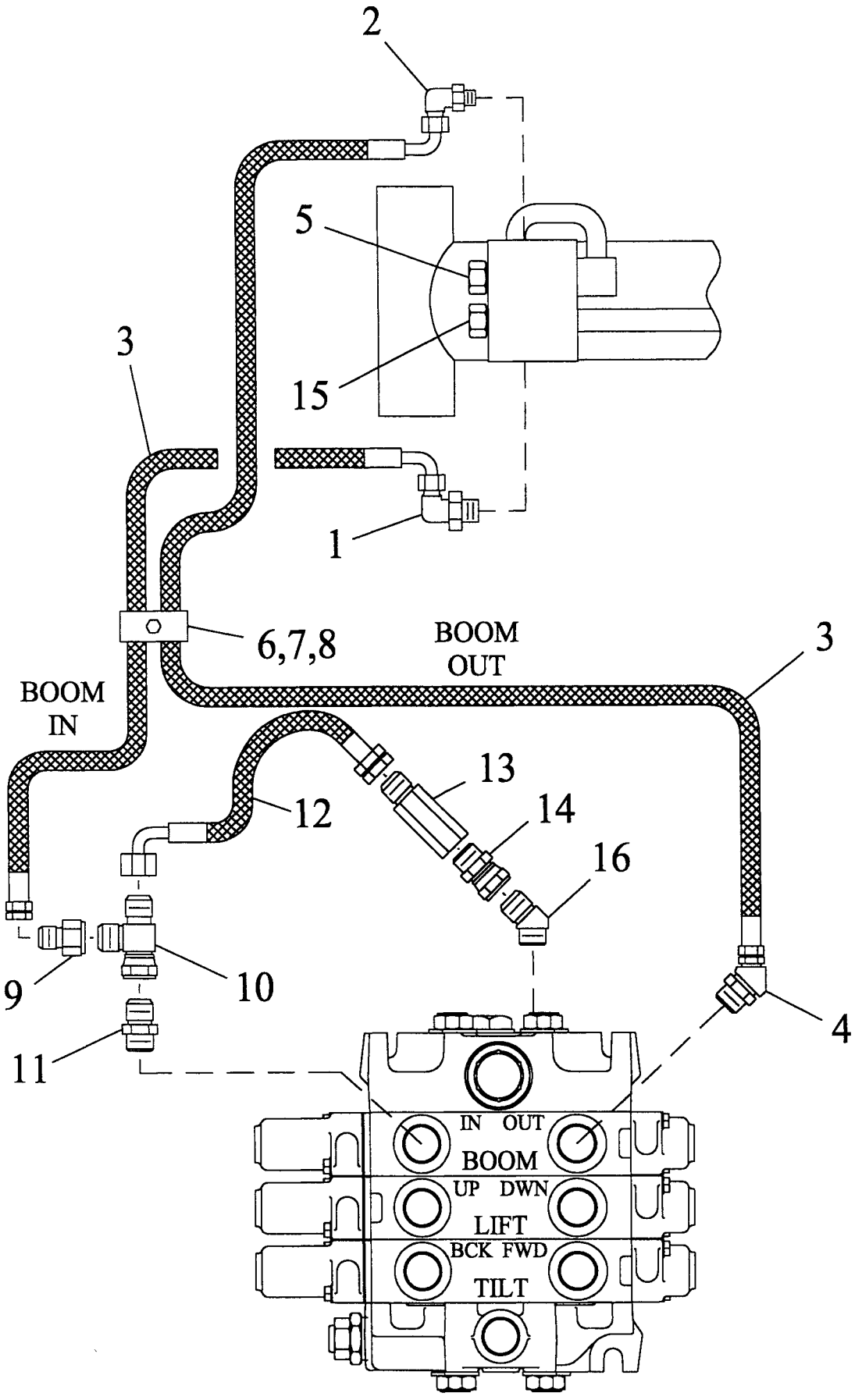
ITEM	NUMBER	DESCRIPTION	REQD
52	7-272-10	GAGE / RETURN FILTER	1
53	6-6406-14	FITTING / 20 NPT x 16 NPT REDUCER	1
54	7-256-05	ELEMENT / RETURN FILTER	1

NOTES



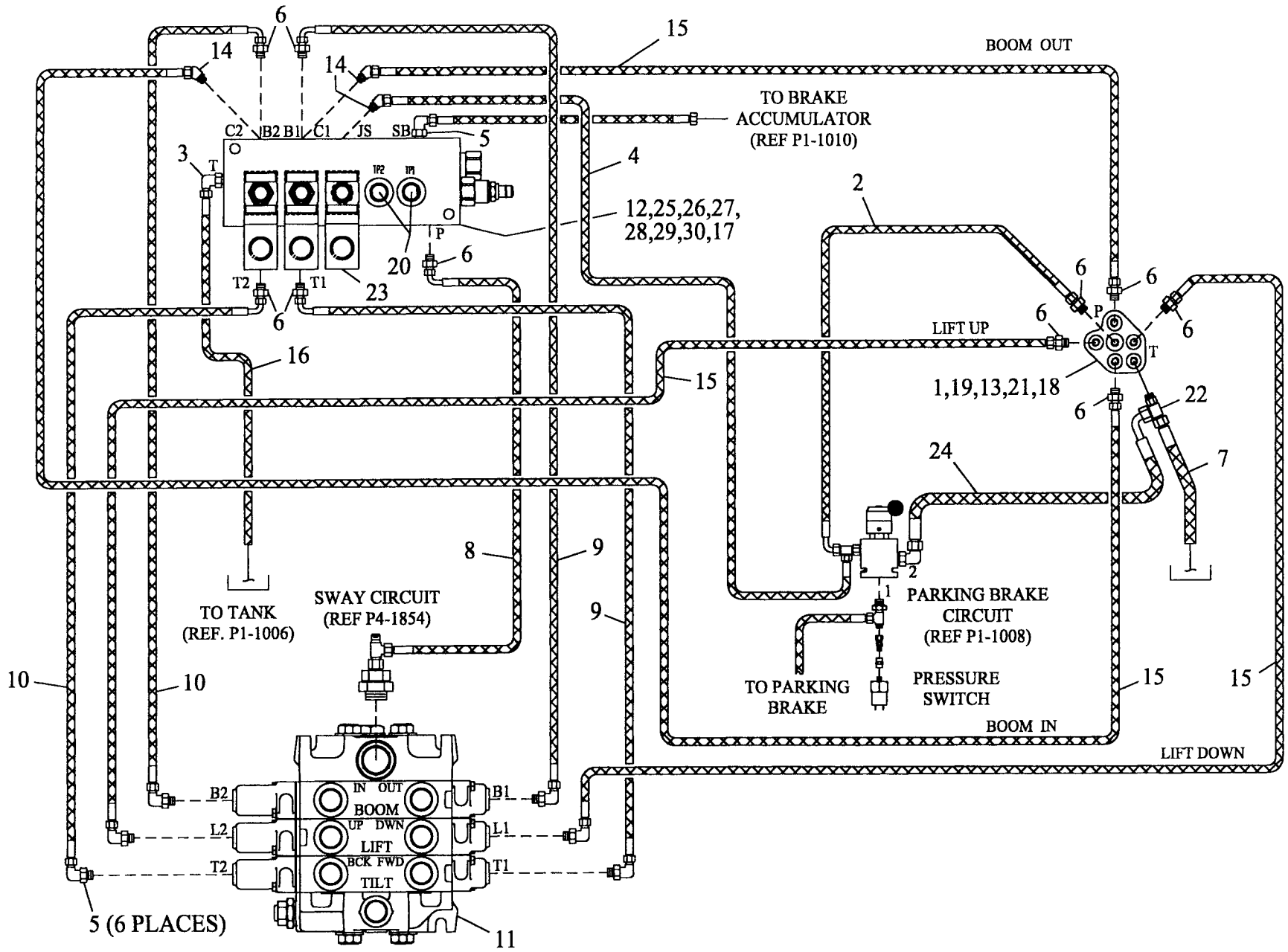
MAIN VALVE
ASSEMBLY

ITEM	NUMBER	DESCRIPTION	REQD
1	6-6450-16	FITTING / 10 OR x 10 JIC STR.	3
2	6-6453-12	FITTING / 10 OR x 10 JIC 90	1
3	6-6481-07	FITTING / 10 JIC SW-RN-TEE	2
4	6-7005-44	HOSE / 10 x 10 x 22 LG.	1
5	6-6452-17	FITTING / 12 OR x 10 JIC 45	2
6	6-7025-136	HOSE / 10 x 10-90 x 68 LG.	2
7	7-234-53	CARTRIDGE / COUNTERBALANCE	2
8	6-7025-44	HOSE / 10 x 10-90 x 22 LG.	1

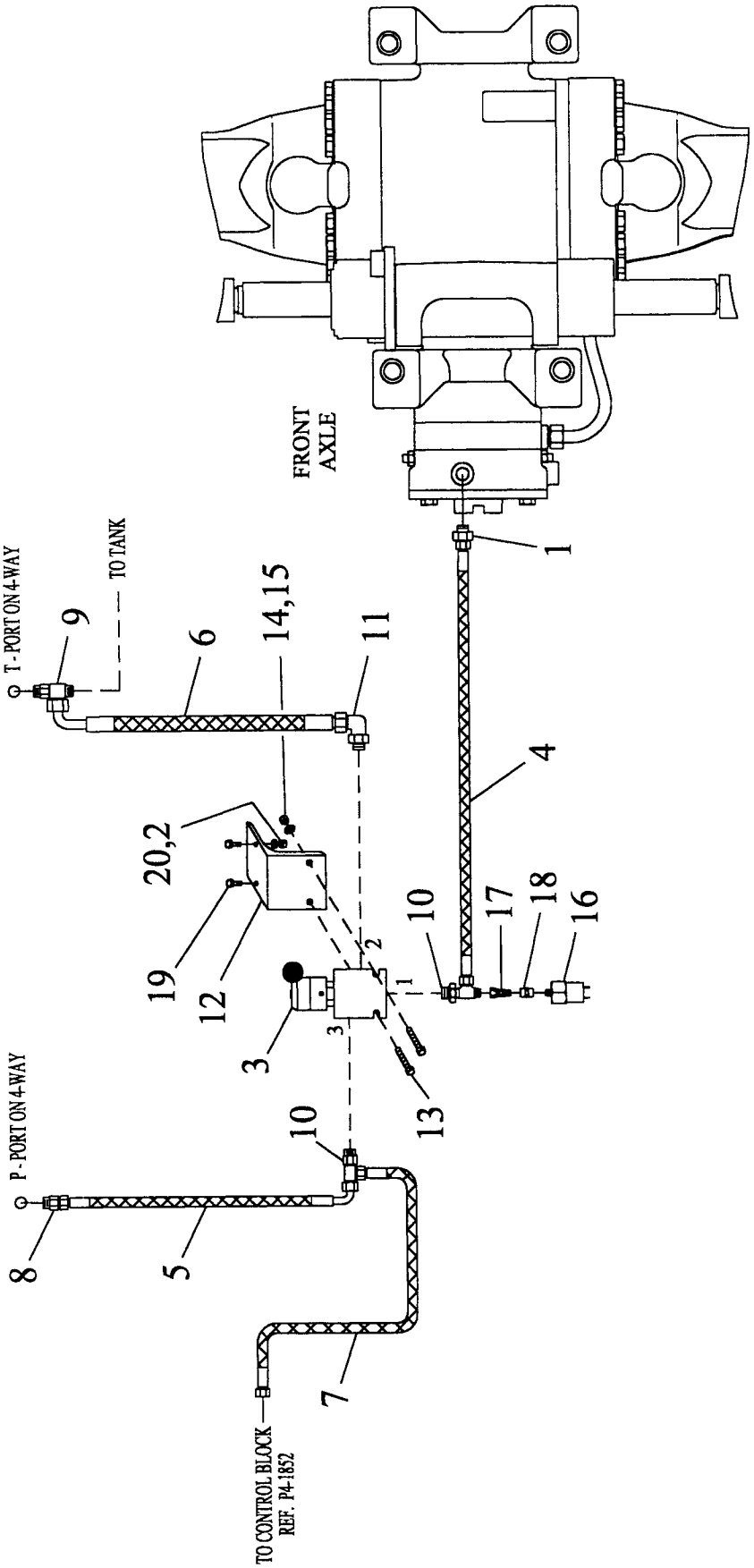


23	PAGE NUMBER	CIRCUIT / BOOM TH528		DRAWING NUMBER	P4-1851

ITEM	NUMBER	DESCRIPTION	REQD
1	6-6453-10	FITTING / 10 OR x 08 JIC 90	1
2	6-6453-10	FITTING / 10 OR x 08 JIC 90	1
3	6-7044-190	HOSE / 10 x 08-90 x 95 LG.	2
4	6-6452-17	FITTING / 12 OR x 10 JIC 45	1
5	7-234-55	CARTRIDGE / CHECK	1
6	7-273-25	CLAMP HALF SET / 1/2 TWIN HOSE	1
7	7-273-26	COVER PLATE / 1/2 HOSE CLAMP	1
8	6-5205-14	CAPSCREW 5/16 NC x 1 3/4 LG.	1
9	6-6495-05	FITTING / 10 M. JIC x 12 F. JIC STR	1
10	6-6481-08	FITTING / 12 JIC SW-RN-TEE	1
11	7-372-03	CHECK VALVE	1
12	6-7026-50	HOSE / 12 x 12-90 x 25 LG.	1
13	7-372-02	CHECK VALVE	1
14	6-6485-04	FITTING / 12 OR x 12 F. JIC SW. STR	1
15	7-234-89	CAVITY PLUG	1
16	6-6452-08	FITTING 12 OR x 12 JIC 45	1

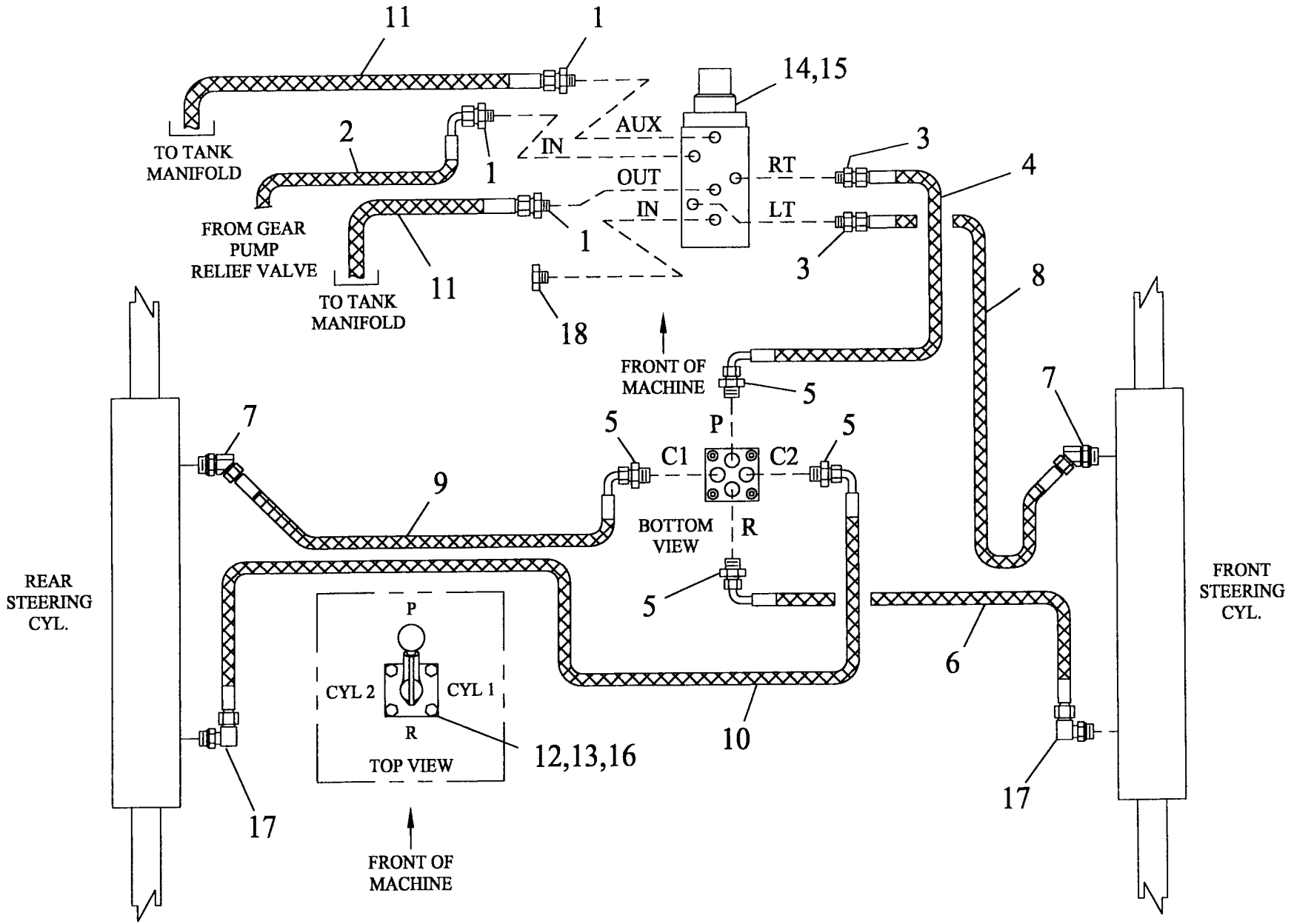

BOOM OUT
TO BRAKE ACCUMULATOR (REF P1-1010)
C2 B2 B1 C1 JS SB
IP2 IP1
T
P
12,25,26,27, 28,29,30,17
20
23
T2
T1
LIFT UP
1,19,13,21,18
T
16
15
22
24
7
8
9
TO TANK (REF. P1-1006)
SWAY CIRCUIT (REF P4-1854)
PARKING BRAKE CIRCUIT (REF P1-1008)
TO PARKING BRAKE
PRESSURE SWITCH
BOOM IN
LIFT DOWN
10
IN OUT
BOOM
UP DWN
LIFT
BCK FWD
TILT
B2
B1
L2
L1
T2
T1
5 (6 PLACES)
11
MAIN VALVE ASSEMBLY

ITEM	NUMBER	DESCRIPTION	REQD
1	7-358-03	4-WAY CONTROLLER	1
2	6-7022-100	HOSE / 04 x 04-90 x 50 LG.	REF
3	6-6453-07	FITTING / 08 OR x 06 JIC 90	1
4	6-7202-182	HOSE / 04 x 04 x 91 LG.	REF
5	6-6453-04	FITTING / 06 OR x 04 JIC 90	7
6	6-6450-05	FITTING / 06 OR x 04 JIC STR.	10
7	6-7013-120	HOSE / 08 x 06 x 60 LG.	1
8	6-7042-44	HOSE / 06 x 04-90 x 22 LG.	1
9	6-7222-48	HOSE / 04 x 04-90 x 24 LG.	2
10	6-7222-74	HOSE / 04 x 04-90 x 37 LG.	2
11	7-358-11	VALVE ASSEMBLY / 3 SECTION	1
12	7-234-90	CONTROL BLOCK ASSEMBLY	1
13	6-6212-04	FLATWASHER 1/4	4
14	6-6452-19	FITTING / 06 OR x 04 JIC 45	3
15	6-7202-182	HOSE / 04 x 04 x 91 LG.	4
16	6-7003-222	HOSE / 06 x 06 x 111 LG.	1
17	6-6201-05	HEX NUT 5/16 NC	2
18	6-6201-04	HEX NUT 1/4 NC	4
19	7-290-03	CARRIAGE BOLT 1/4 NC x 1 LG.	4
20	7-256-33	MALE PRESSURE CHECK	2
21	6-6211-04	LOCKWASHER 1/4	4
22	6-6455-05	FITTING / 06 OR x 06 JIC RN-TEE	1
23	7-244-27	DIN CONNECTOR	3
24	6-7023-100	HOSE / 06 x 06-90 x 50 LG.	REF
25	2-1245	MOUNTING PLATE / CONTROL BLOCK	1
26	6-5206-10	CAPSCREW 3/8 NC x 1 1/4 LG.	2
27	6-6211-06	LOCKWASHER 3/8	2
28	6-6201-06	HEX NUT 3/8 NC	2
29	6-5205-36	CAPSCREW 5/16 NC x 4 1/2 LG.	2
30	6-6211-05	LOCKWASHER 5/16	2



25	PAGE NUMBER	CIRCUIT / PARKING BRAKE TH528		DRAWING NUMBER	P1-1008

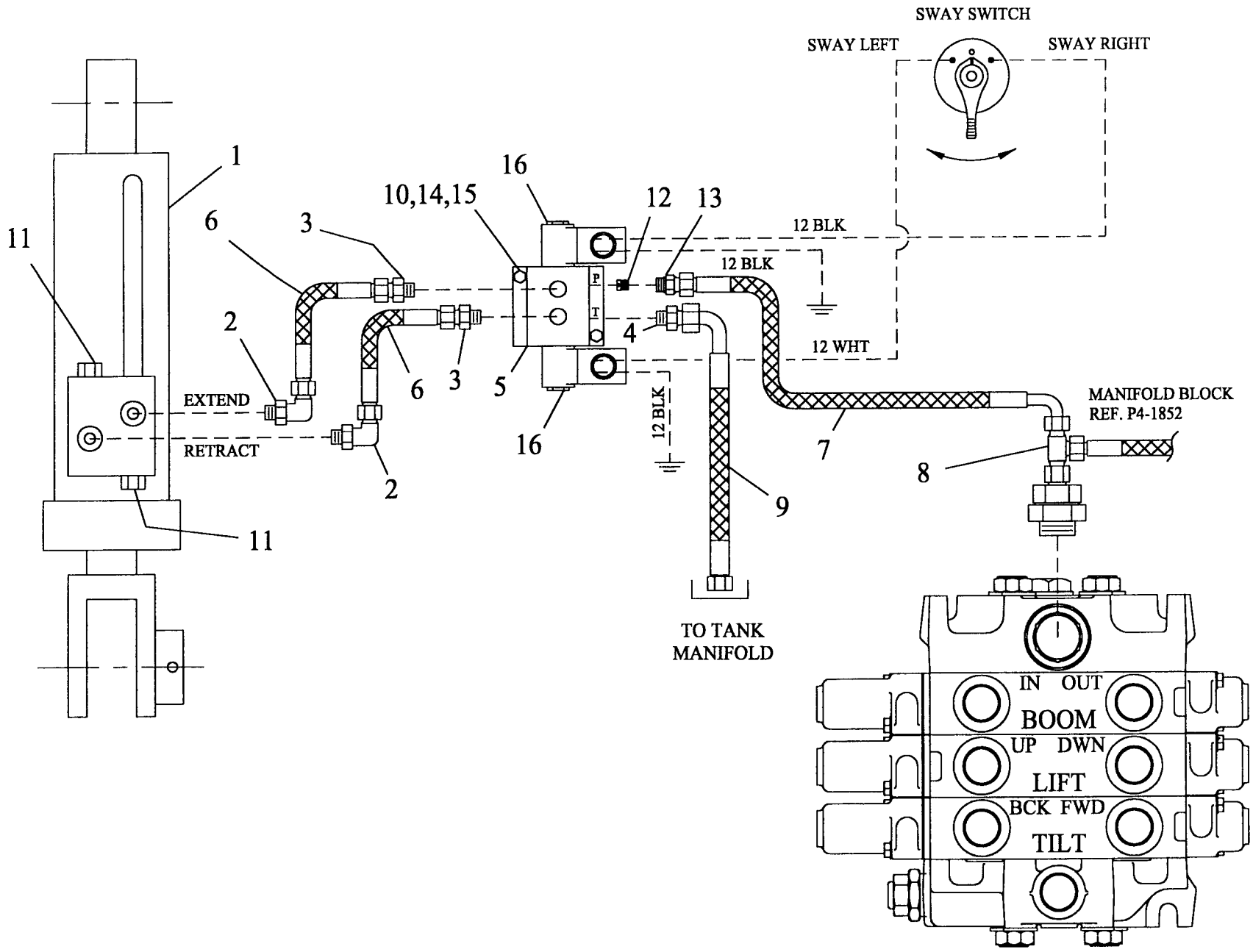
ITEM	NUMBER	DESCRIPTION	REQD
1	7-371-09	14mm x 06 JIC ST.	1
2	6-6211-05	LOCKWASHER 5/16	2
3	7-358-08	VALVE / PARKING BRAKE	REF
4	6-7012-240	HOSE / 06 x 04 x 120 LG.	1
5	6-7022-100	HOSE / 04 x 04-90 x 50 LG.	1
6	6-7023-100	HOSE / 06 x 06-90 x 50 LG.	1
7	6-7202-182	HOSE / 04 x 04 x 91 LG.	1
8	6-6450-05	FITTING / 06 OR x 04 JIC STR.	REF
9	6-6455-05	FITTING / 06 OR x 06 JIC RN. TEE	REF
10	6-6455-15	FITTING / 06 OR x 04 JIC RN. TEE	2
11	6-6453-06	FITTING / 06 OR x 06 JIC 90	1
12	2-1205	MOUNTING BRACKET / BRAKE VALVE	1
13	6-5204-16	CAPSCREW 1/4 NC x 2 LG.	2
14	6-6201-04	HEX NUT 1/4 NC	2
15	6-6211-04	LOCKWASHER 1/4	2
16	7-303-02	PRESSURE SWITCH / PARKING BRAKE	1
17	6-6486-01	FITTING / 02 NPT M. x 04 JIC SW.	1
18	6-6440-02	FITTING / 02 NPT COUPLER	1
19	6-5205-08	CAPSCREW 5/16 NC x 1 LG.	2
20	6-6201-05	HEX NUT 5/16 NC	2


11
1
14,15
AUX
IN
OUT
IN
RT
LT
3
4
2
1
TO TANK MANIFOLD
FROM GEAR PUMP RELIEF VALVE
TO TANK MANIFOLD
11
1
18
3
8
FRONT OF MACHINE
5
7
5
P
5
C1
C2
9
BOTTOM VIEW
R
5
REAR STEERING CYL.
P
CYL 2
CYL 1
R
TOP VIEW
12,13,16
10
6
17
17
FRONT OF MACHINE
FRONT STEERING CYL.

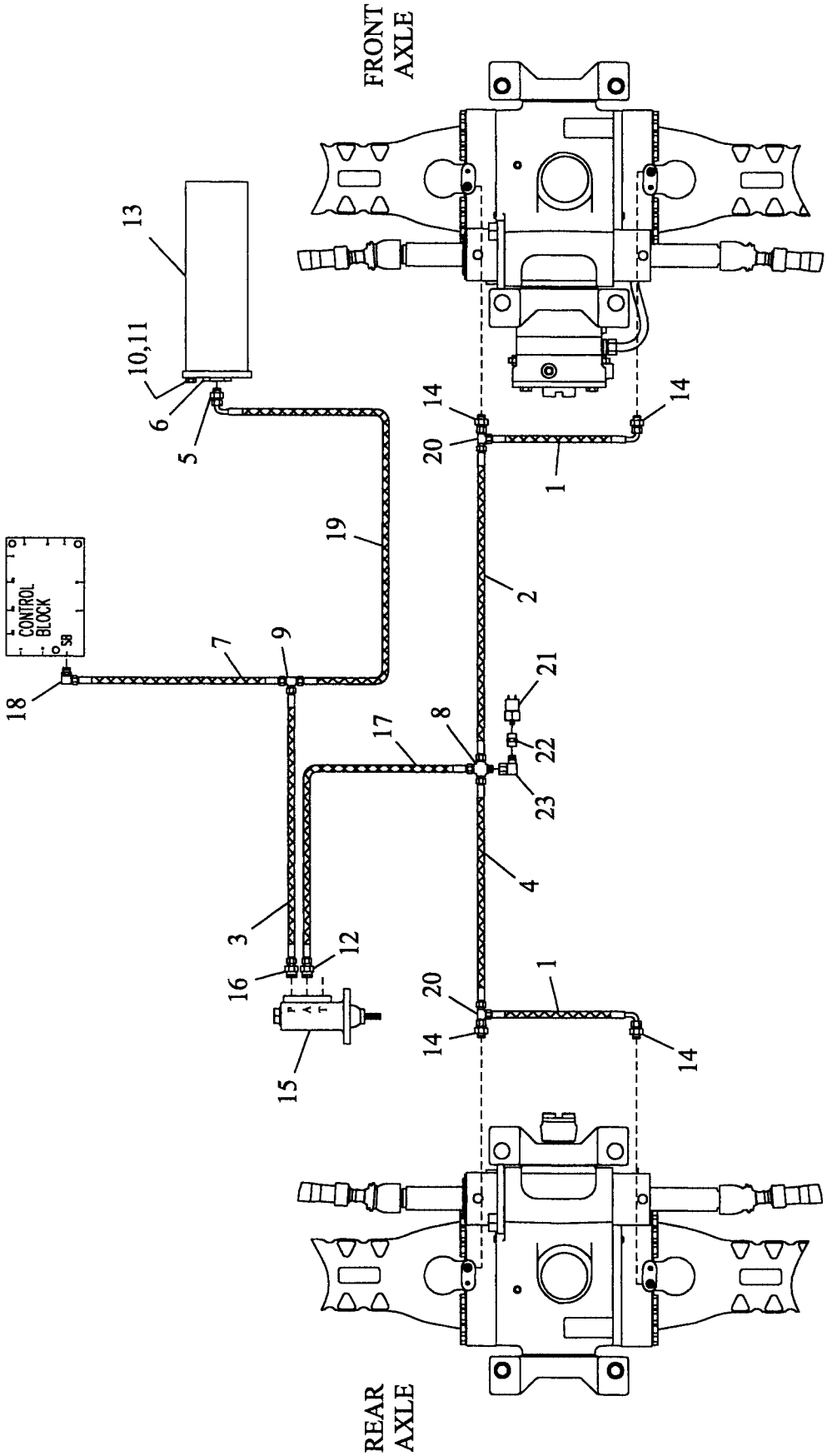
ITEM	NUMBER	DESCRIPTION	REQD
1	6-6450-11	FITTING / 06 OR x 08 JIC STR.	3
2	6-7024-112	HOSE / 08 x 08-90 x 56 LG.	1
3	6-6450-08	FITTING / 06 OR x 06 JIC STR.	2
4	6-7023-62	HOSE / 06 x 06-90 x 31 LG.	1
5	6-6450-09	FITTING / 08 OR x 06 JIC STR.	4
6	6-7023-244	HOSE / 06 x 06-90 x 122 LG.	1
7	6-6452-03	FITTING / 06 OR x 06 JIC 45	2
8	6-7003-194	HOSE / 06 x 06 x 97 LG.	1
9	6-7023-244	HOSE / 06 x 06-90 x 122 LG.	1
10	6-7023-252	HOSE / 06 x 06-90 x 126 LG.	1
11	6-7004-134	HOSE / 08 x 08 x 67 LG.	2
12	6-5205-06	CAPSCREW 5/16 NC x 3/4 LG.	4
13	6-6211-05	LOCKWASHER 5/16	4
14	6-5205-05	CAPSCREW 5/16 NC x 5/8 LG.	4
15	6-6211-05	LOCKWASHER 5/16	4
16	7-359-02	VALVE / STEERING SELECTOR	1
17	6-6453-07	FITTING / 08 OR x 06 JIC 90	2
18	6-6457-05	FITTING / 06 OR PLUG	1

CIRCUIT / SWAY
TH528

DRAWING NUMBER P4-1854

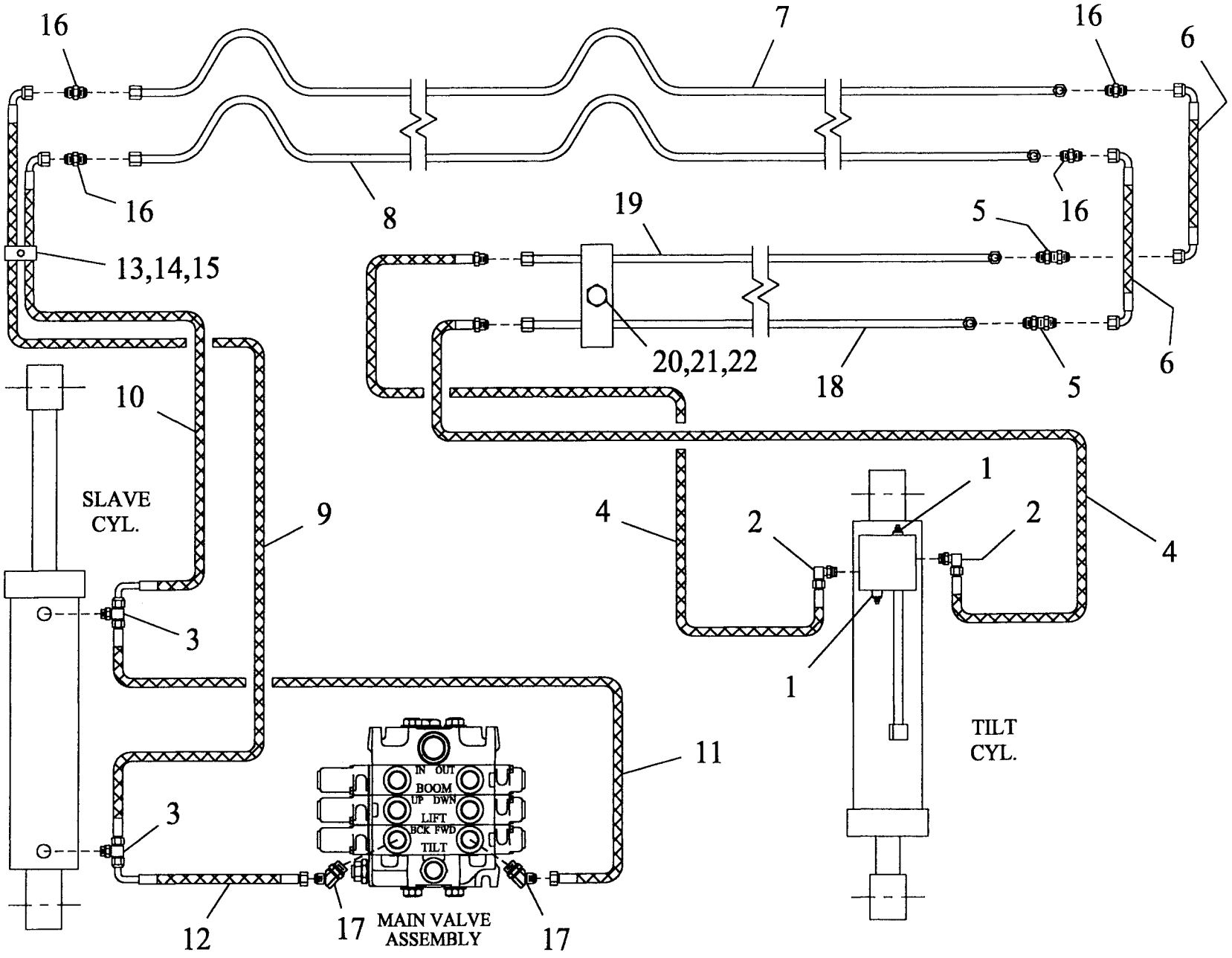


ITEM	NUMBER	DESCRIPTION	REQD
1	7-316-194	CYLINDER / SWAY	REF
2	6-6453-06	FITTING / 06 OR x 06 JIC 90	2
3	6-6450-08	FITTING / 06 OR x 06 JIC STR.	2
4	6-6450-11	FITTING / 06 OR x 08 JIC STR.	1
5	7-244-31	ELECTRIC VALVE / SWAY	1
6	6-7003-56	HOSE / 06 x 06 x 28 LG.	2
7	6-7023-290	HOSE / 06 x 06-90 x 145 LG.	1
8	6-6481-05	FITTING / 06 JIC SW-RN-TEE	1
9	6-7024-164	HOSE / 08 x 08-90 x 82 LG.	1
10	6-5204-14	CAPSCREW 1/4 NC x 1 3/4 LG.	2
11	7-234-18	CARTRIDGE / CHECK	2
12	1-1093-1	RESTRICTOR PLUG (.040)	1
13	1-1219	RESTRICTOR FITTING	1
14	6-6211-04	LOCKWASHER 1/4	2
15	6-6212-04	FLATWASHER 1/4	2
16	7-244-27	DIN CONNECTOR	REF

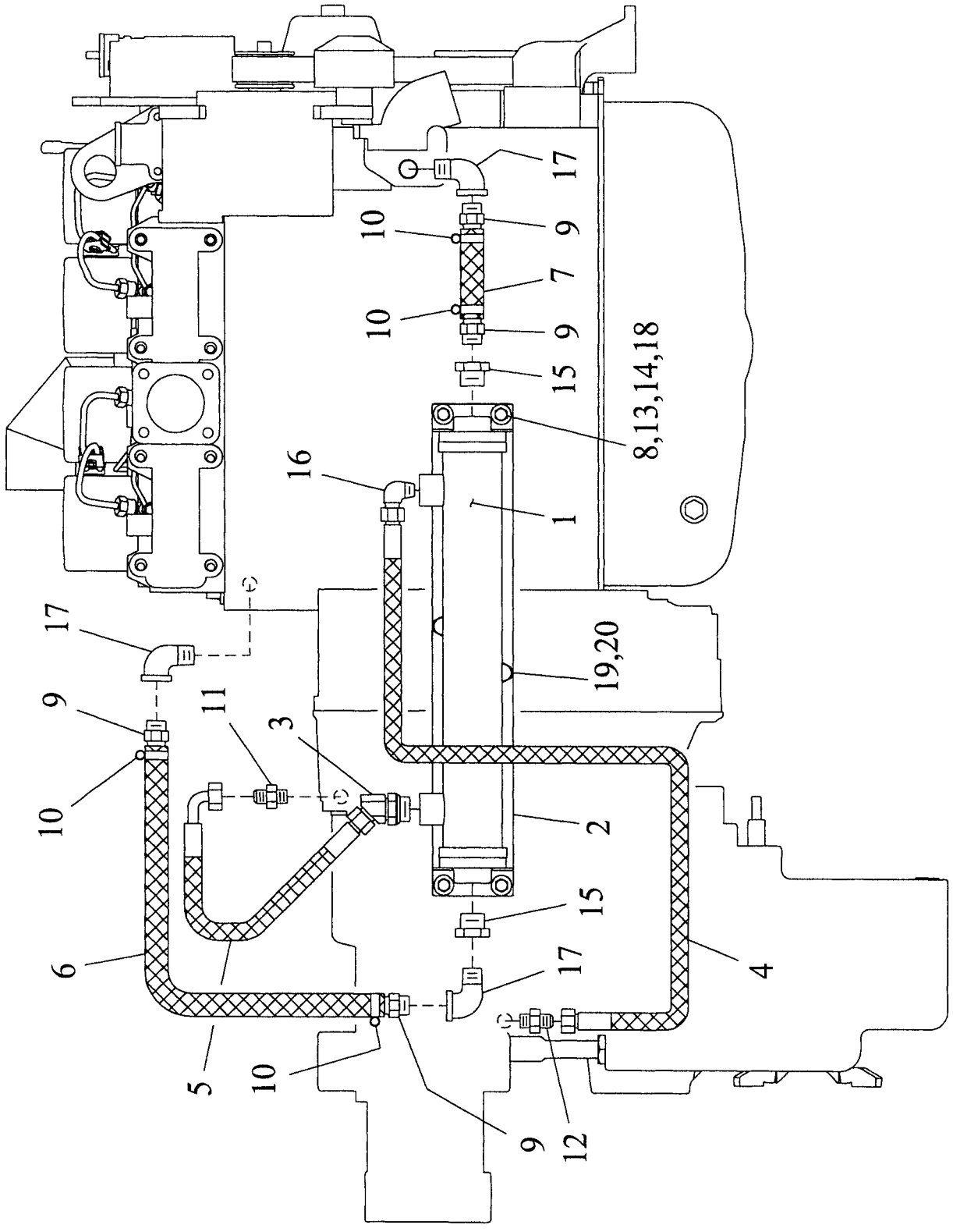


28	PAGE NUMBER	CIRCUIT / BRAKE TH528 w/ DANA 212 AXLES	DRAWING NUMBER	P1-1010

ITEM	NUMBER	DESCRIPTION	REQD
1	6-7023-28	HOSE / 06 x 06-90 x 14 LG.	2
2	6-7003-136	HOSE / 06 x 06 x 68 LG.	1
3	6-7002-86	HOSE / 04 x 04 x 43 LG.	1
4	6-7003-150	HOSE / 06 x 06 x 75 LG.	1
5	6-6425-03	FITTING / 02 NPT x 04 JIC STR.	1
6	1-2014	FITTING / 20 OR x 02 NPT REDUCER	1
7	6-7002-180	HOSE / 04 x 04 x 90 LG.	1
8	6-6483-05	FITTING / 06 JIC CROSS	1
9	6-6482-03	FITTING / 04 JIC TEE	1
10	6-5308-08	CAPSCREW 1/2 NF x 1 LG.	3
11	6-6211-08	LOCKWASHER 1/2	3
12	6-6450-09	FITTING / 08 OR x 06 JIC STR.	1
13	7-256-25	ACCUMULATOR / BRAKE	1
14	7-371-04	FITTING / 14mm OR x 06 JIC STR.	4
15	7-198-43	BRAKE ACTUATOR	REF
16	6-6450-06	FITTING / 08 OR x 04 JIC STR.	1
17	6-7003-100	HOSE / 06 x 06 x 50 LG.	1
18	6-6453-04	FITTING / 06 OR x 04 JIC 90	REF
19	6-7022-154	HOSE / 04 x 04-90 x 77 LG.	1
20	6-6481-05	FITTING / 06 JIC SW-RN-TEE	2
21	7-303-03	PRESSURE SWITCH / CLUTCH CUT-OFF	1
22	6-6402-02	FITTING / 02 NPT F. x 04 NPT F.	1
23	6-6435-03	FITTING / 04 NPT M. x 06 JIC 90 SW	1

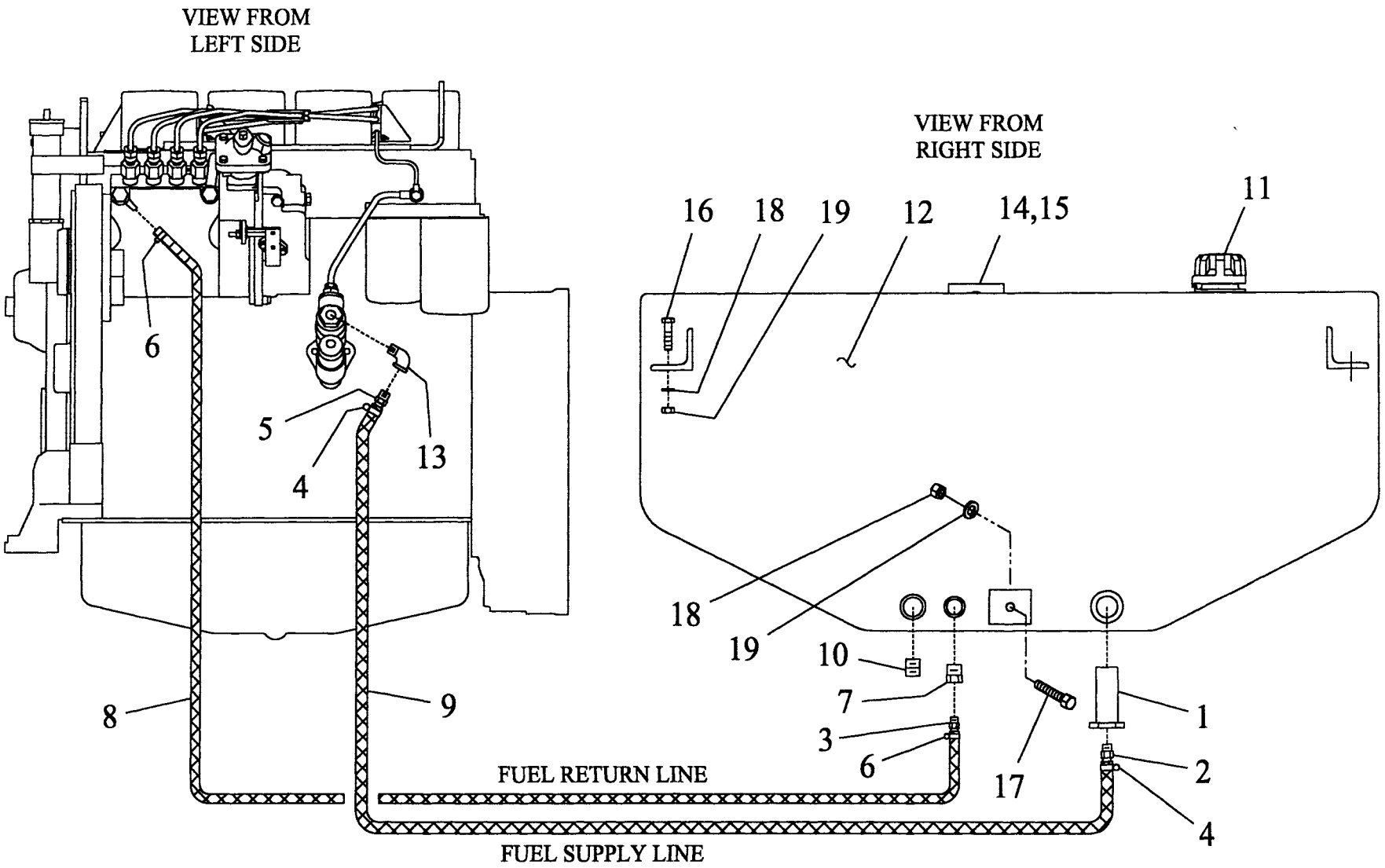

16
7
16
6
16
8
16
19
5
16
13,14,15
20,21,22
18
5
6
10
SLAVE CYL.
9
4
2
1
2
4
3
1
TILT CYL.
11
IN OUT
BOOM UP DWN
LIFT BCK FWD
TILT
3
12
17
MAIN VALVE ASSEMBLY
17

ITEM	NUMBER	DESCRIPTION	REQD
1	7-234-53	CARTRIDGE / COUNTERBALANCE	2
2	6-6453-09	FITTING / 08 OR x 08 JIC 90	2
3	6-6454-06	FITTING / 08 OR x 08 JIC BR-TEE	2
4	7-256-34	BONDED HOSE / 08 x 10 x 318 LG.	1
5	6-6475-07	FITTING / 10 JIC BH UNION	2
6	6-7060-28	HOSE / 10-90 x 10-90 x 14 LG.	2
7	4-1826-2	FORMED TUBING	1
8	4-1826-4	FORMED TUBING	1
9	6-7034-150	HOSE / 08 x 10-90 x 75 LG.	1
10	6-7064-116	HOSE / 08-90 x 10-90 x 58 LG.	1
11	6-7014-208	HOSE / 08 x 10 x 104 LG.	1
12	6-7044-160	HOSE / 10 x 08-90 x 80 LG.	1
13	7-273-25	CLAMP HALF SET / 1/2 TWIN HOSE	1
14	7-273-26	COVER PLATE / 1/2 HOSE CLAMP	1
15	6-5205-14	CAPSCREW 5/16 NC x 1 3/4 LG.	1
16	7-299-09	FITTING / 10 x 10 TUBE UNION	4
17	6-6452-17	FITTING / 12 OR x 10 JIC 45	2
18	4-1885-1	FORMED TUBE / SHORT	1
19	4-1885-2	FORMED TUBE / LONG	1
20	7-273-27	CLAMP HALF SET / 3/8 TWIN HOSE	1
21	6-5606-14	CAPSREW SH 3/8 NC x 1 3/4 LG.	1
22	6-6205-06	SELF LOCKING NUT 3/8 NC	1

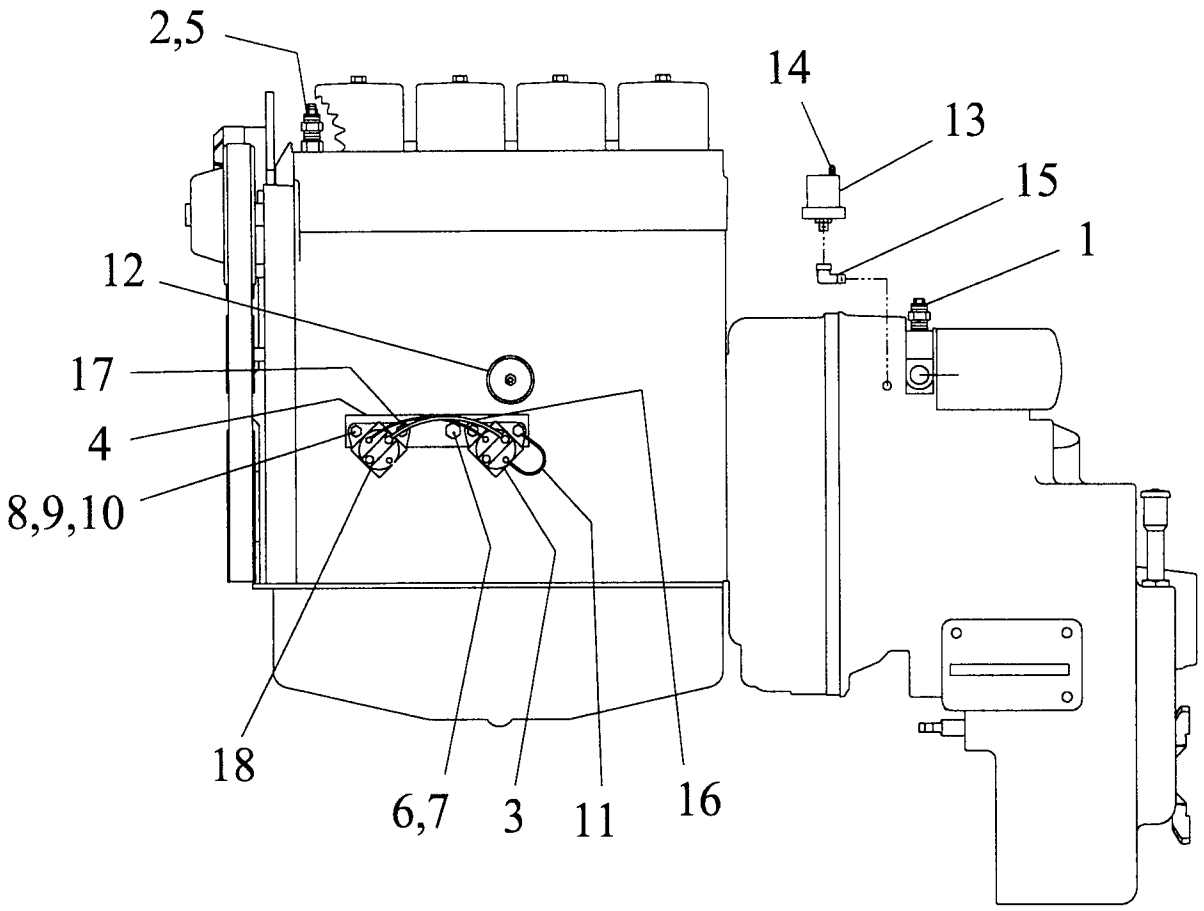


30	PAGE NUMBER	CIRCUIT / OIL COOLER TH528	DRAWING NUMBER	P4-1857

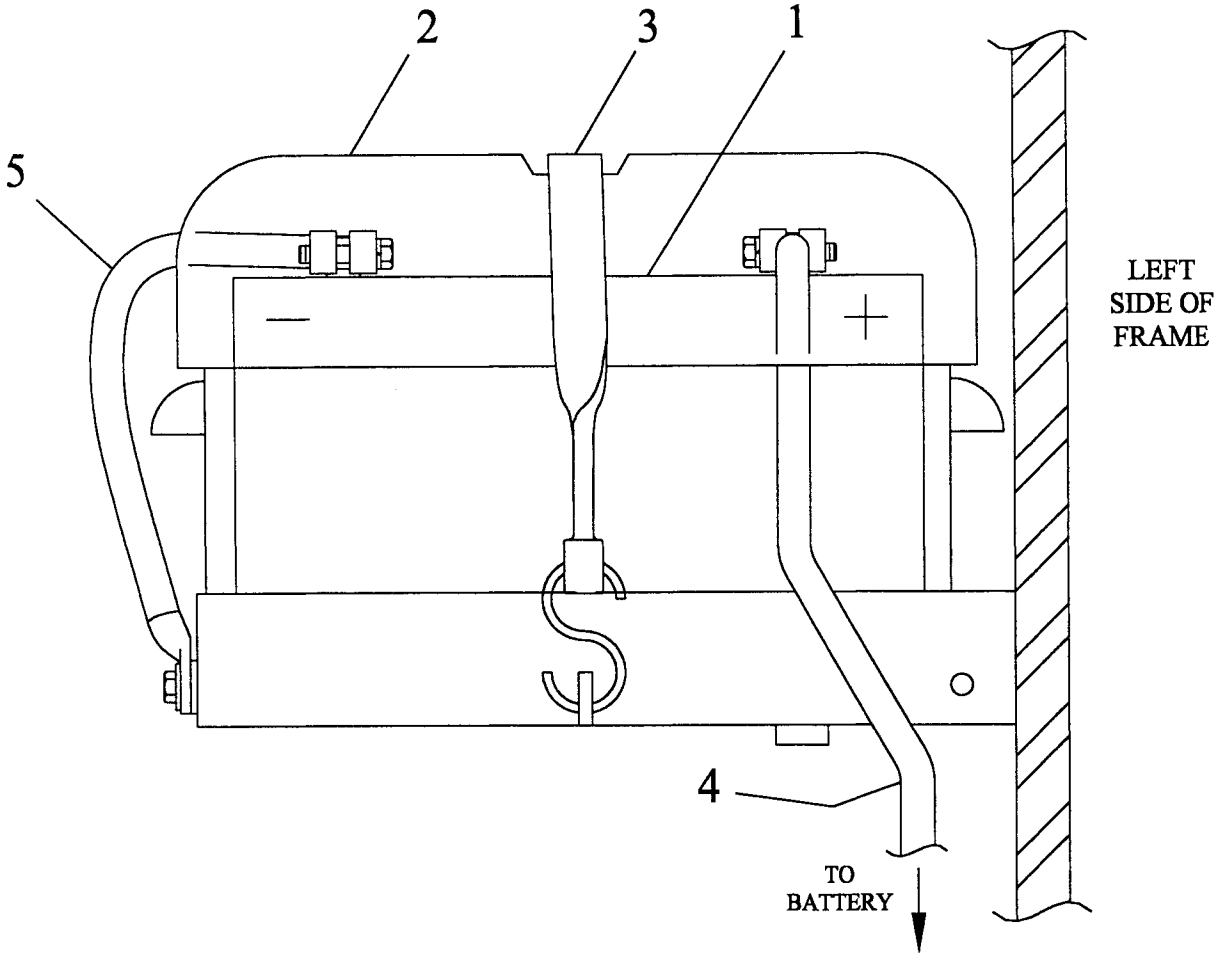
ITEM	NUMBER	DESCRIPTION	REQD
1	7-103-01	OIL COOLER	1
2	3-1365	MOUNT / OIL COOLER	1
3	6-6426-25	FITTING / 12 NPT x 10 JIC 45	1
4	6-7006-64	HOSE / 12 x 12 x 32 LG.	1
5	6-7025-82	HOSE / 10 x 10-90 x 41 LG.	1
6	6-9611-400	HOSE-HEATER 3/4 x 50 LG.	1
7	6-9611-72	HOSE-HEATER 3/4 x 9 LG.	1
8	6-6211-05	LOCKWASHER 5/16	4
9	6-6423-18	HOSE END / 12-08 MALE PIPE	4
10	6-6252-04	HOSE CLAMP / NO. 12	4
11	6-6450-16	FITTING / 10 OR x 10 JIC STR	1
12	6-6450-20	FITTING / 12 OR x 12 JIC STR.	1
13	6-6201-05	HEX NUT 5/16 NC	4
14	6-6212-05	FLATWASHER 5/16	4
15	6-6406-07	FITTING / NPT REDUCER 3/4 x 1/2	2
16	6-6427-18	FITTING / 12 NPT x 12 JIC 90	1
17	6-6437-04	FITTING / 08 NPT ST. ELB BLK-P	3
18	6-5205-08	CAPSCREW 5/16 NC x 1 LG.	4
19	6-8512-25	CAPSCREW 12mm x 1.75 x 25mm LG.	2
20	6-9111-12	LOCKWASHER 12mm	2


VIEW FROM LEFT SIDE
VIEW FROM RIGHT SIDE
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FUEL RETURN LINE
FUEL SUPPLY LINE

ITEM	NUMBER	DESCRIPTION	REQD
1	7-272-05	FUEL STRAINER	1
2	6-6423-10	FITTING / 08 x 06 BRASS HOSE END	1
3	6-6423-04	FITTING / 02 x 05 BRASS HOSE END	1
4	6-6252-20	HOSE CLAMP / NO. 2	2
5	6-6423-08	FITTING / 04 x 06 BRASS HOSE END	1
6	6-6252-20	HOSE CLAMP / NO. 2	2
7	6-6406-06	FITTING / 08 NPT x 02 NPT REDUCER	1
8	6-9621-512	HOSE-FUEL 5/16 x 64 LG.	1
9	6-9605-320	HOSE-FUEL 3/8 x 40 LG.	1
10	6-6408-06	FITTING / NPT FLUSH PLUG / 3/4	1
11	7-272-09	FILLER CAP / FUEL	1
12	4-1824	FUEL TANK	1
13	6-6422-03	FITTING / 04 NPT 90 ST. ELB. BRASS	1
14	7-172-03	FUEL SENDER	1
15	6-6284-13	MACHINE SCREW #10-32 x 1/2 LG.	5
16	6-5206-12	CAPSCREW 3/8 NC x 1 1/2 LG.	2
17	6-5206-16	CAPSCREW 3/8 NC x 2 LG.	1
18	6-6211-06	LOCKWASHER 3/8	3
19	6-6201-06	HEX NUT 3/8 NC	3

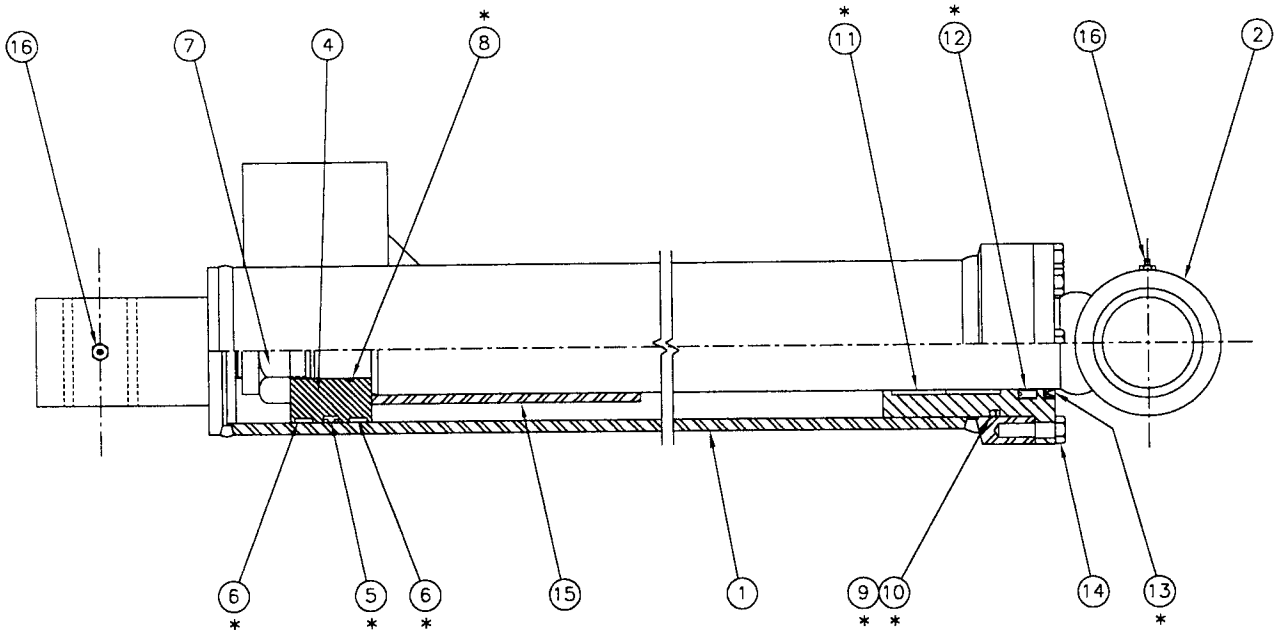


ITEM	NUMBER	DESCRIPTION	REQD
1	7-172-17	SENDER / TRANS. OIL TEMP.	1
2	7-172-09	SENDER / ENGINE WATER TEMP.	1
3	7-183-18	RELAY / STARTER	1
4	2-1220	MOUNT / STARTER RELAY	1
5	6-6406-04	FITTING / NPT REDUCER 1/2 x 3/8	1
6	6-8508-25	CAPSCREW 8mm x 1.25 x 25mm LG.	1
7	6-9111-08	LOCKWASHER 8mm	1
8	6-5204-04	CAPSCREW 1/4 NC x 1/2 LG.	4
9	6-6211-04	LOCKWASHER 1/4	4
10	6-6212-04	FLATWASHER 1/4	4
11	1-1094	GROUND WIRE / STARTER RELAY	REF
12	7-172-05	SENDER / ENGINE OIL PRESSURE	1
13	7-172-16	SENDER / TRANS. OIL PRESSURE	1
14	6-6286-06	HEX NUT #10-32	1
15	6-6422-01	FITTING / 02 NPT 90 BRASS ST. ELB.	1
16	2-1221	JUMPER WIRE ASSEMBLY / 8 RED	1
17	2-1222	JUMPER WIRE ASSEMBLY / 12 BLACK	1
18	7-319-21	RELAY / STARTER	1

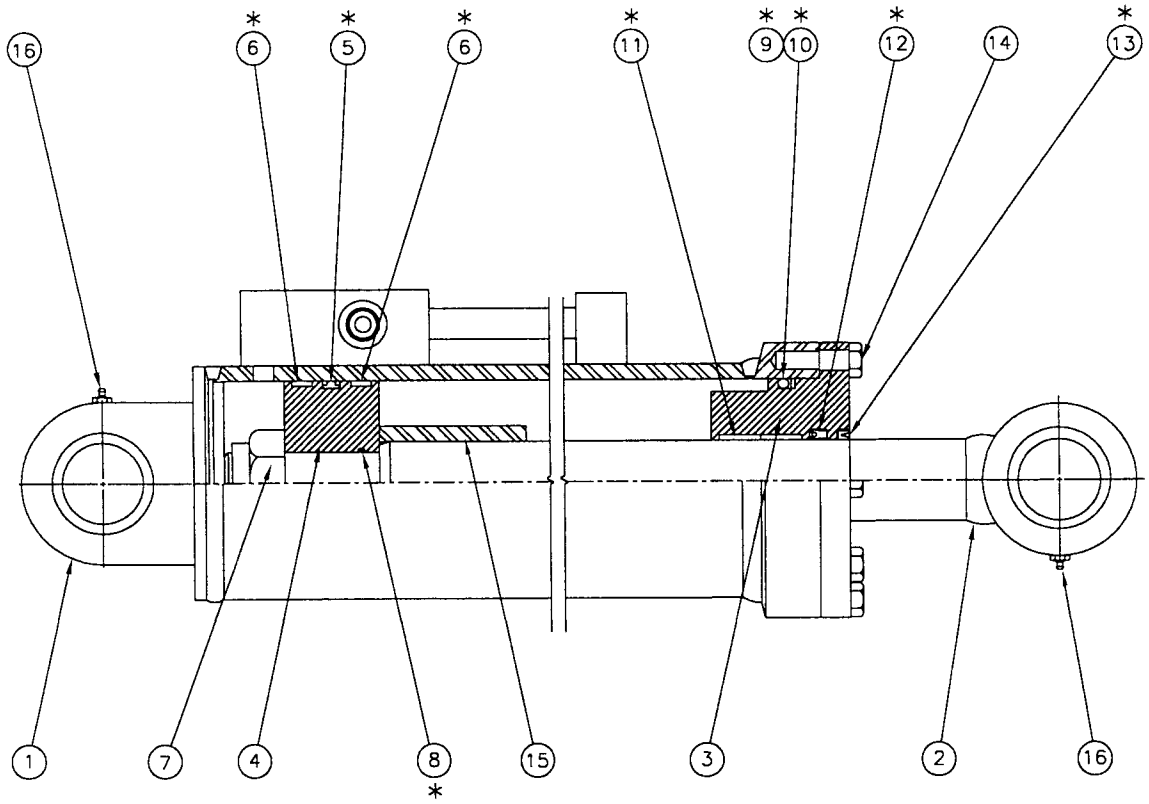


FACING REAR OF MACHINE

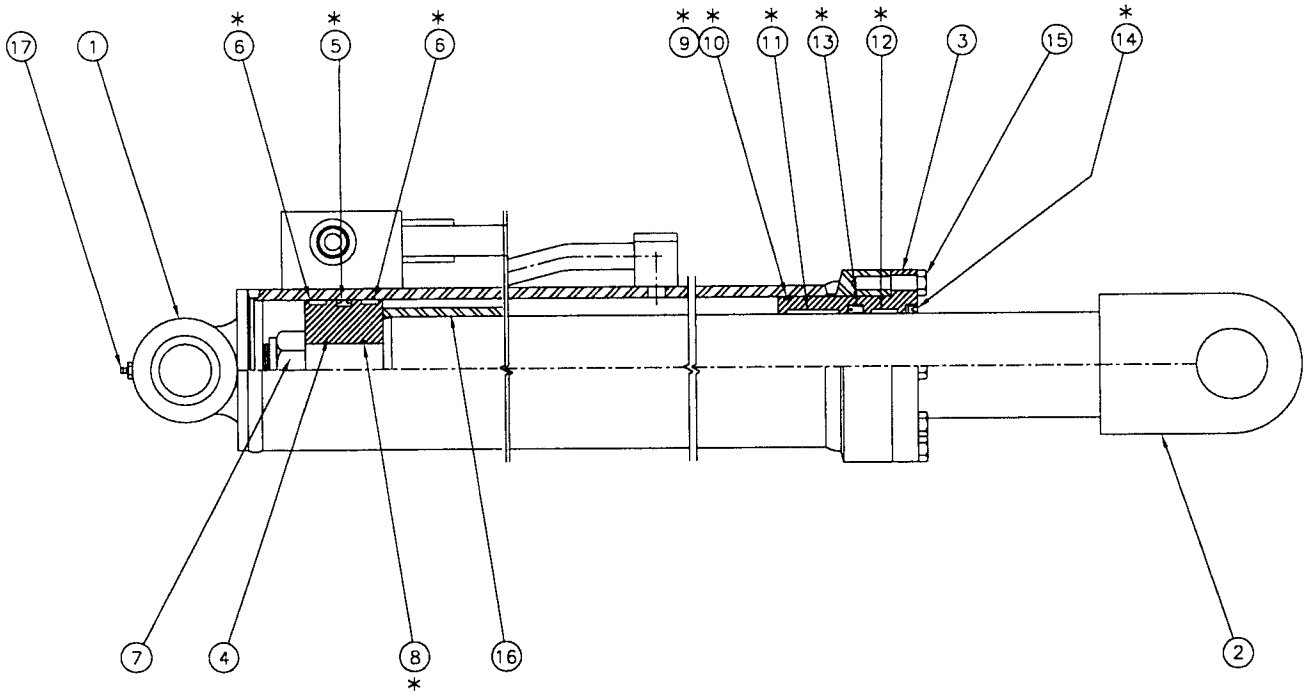
ITEM	NUMBER	DESCRIPTION	REQD
1	7-355-01	BATTERY	1
2	7-194-60	BATTERY BOX	1
3	7-194-65	TIE DOWN / 24 LG.	1
4	6-7801-180B	BATTERY CABLE / RED (POSITIVE)	1
5	6-7806-32B	BATTERY CABLE / BLACK (NEGATIVE)	1



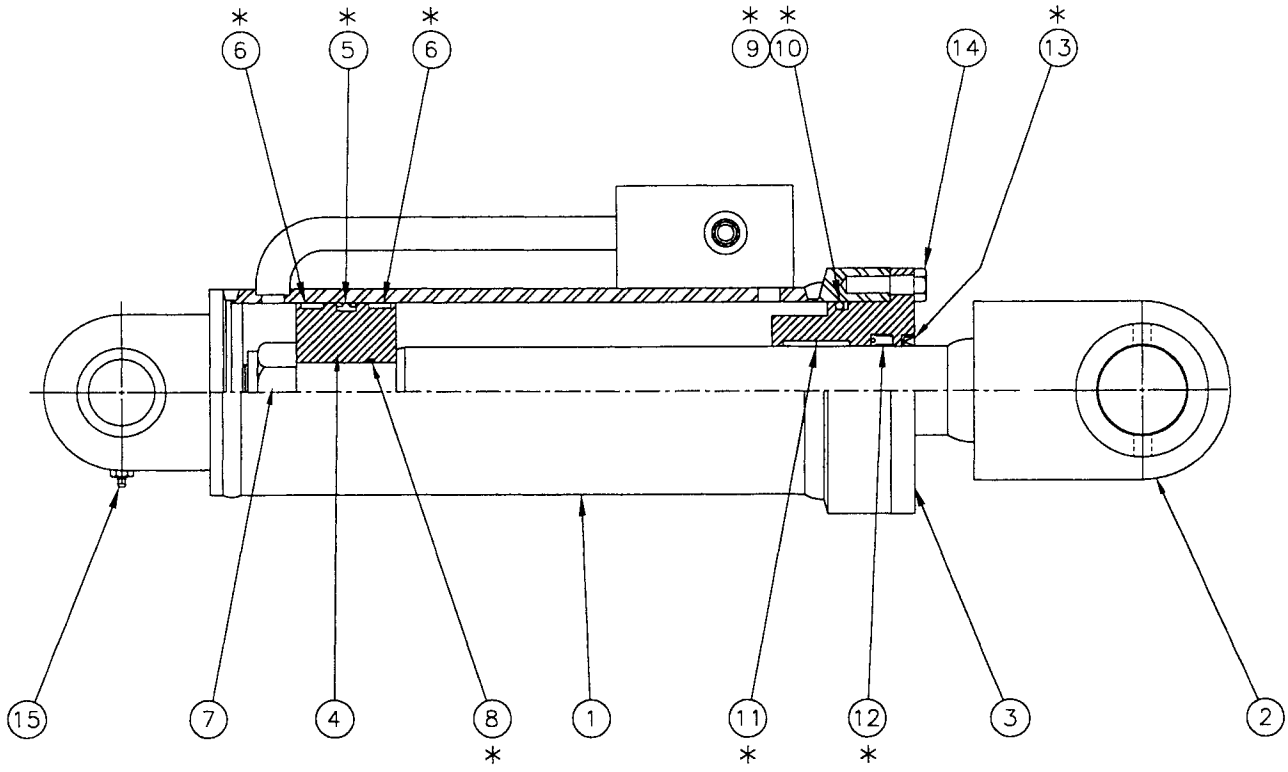
ITEM	NUMBER	DESCRIPTION		REQD
1	7-316-281	BARREL ASSEMBLY		1
2	7-316-202	ROD ASSEMBLY		1
3	7-316-284	HEAD		1
4	7-316-283	PISTON		1
5	7-316-53	SEAL / PISTON	(*)	1
6	7-316-213	WEAR RING / PISTON	(*)	2
7	7-316-73	SELF-LOCKING NUT		1
8	7-316-80	O-RING	(*)	1
9	7-316-85	O-RING / HEAD	(*)	1
10	7-316-86	BACK-UP RING / HEAD	(*)	1
11	7-316-215	WEAR RING / HEAD	(*)	2
12	7-316-29	ROD SEAL	(*)	1
13	7-316-35	WIPER / SHAFT	(*)	1
14	7-316-95	HEX HEAD CAPSCREW		8
15	7-316-282	STROKE LIMITER		1
16	7-316-150	LUBE FITTING		3
17				
18	7-900-72	SEAL KIT / ITEMS MARKED	(*)	REF



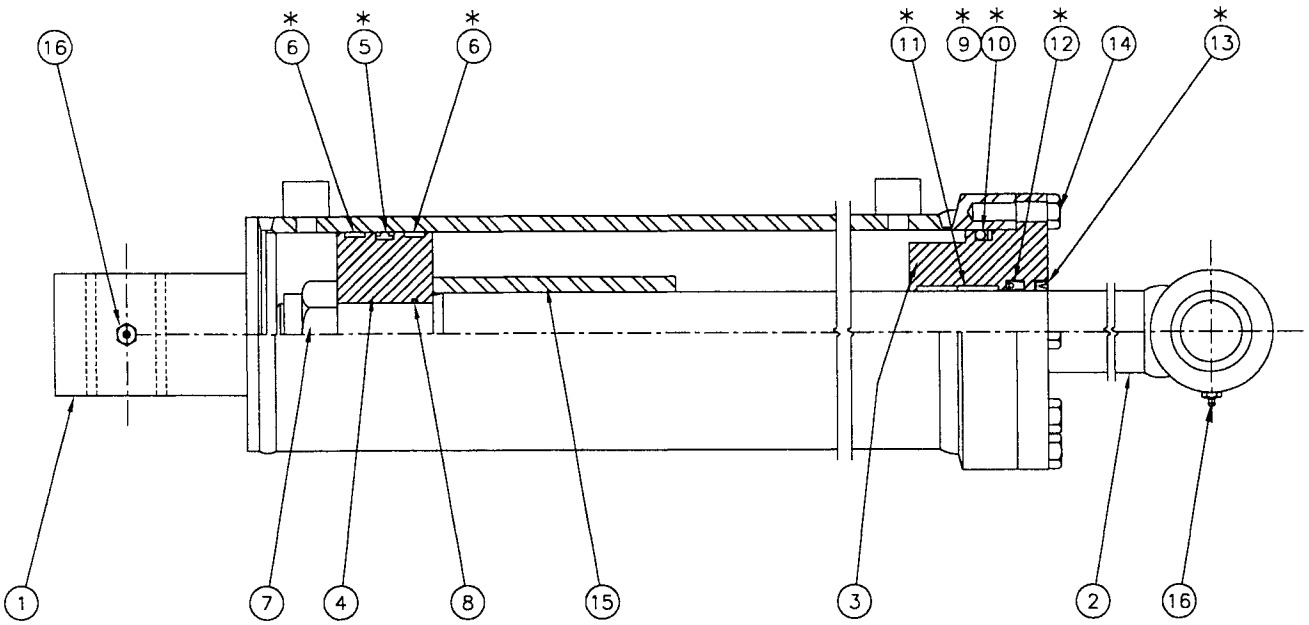
ITEM	NUMBER	DESCRIPTION		REQD
1	7-316-279	BARREL ASSEMBLY		1
2	7-316-280	ROD ASSEMBLY		1
3	7-316-277	HEAD		1
4	7-316-278	PISTON		1
5	7-316-217	SEAL / PISTON	(*)	1
6	7-316-219	WEAR RING / PISTON	(*)	2
7	7-316-73	SELF-LOCKING NUT		1
8	7-316-80	O-RING	(*)	1
9	7-316-218	O-RING / HEAD	(*)	1
10	7-316-220	BACK-UP RING / HEAD	(*)	1
11	7-316-212	WEAR RING / HEAD	(*)	2
12	7-316-19	ROD SEAL	(*)	1
13	7-316-216	WIPER / SHAFT	(*)	1
14	7-316-97	HEX HEAD CAPSCREW		8
15	7-316-276	STROKE LIMITER		1
16	7-316-150	LUBE FITTING		2
17				
18	7-900-74	SEAL KIT / ITEMS MARKED	(*)	REF



ITEM	NUMBER	DESCRIPTION		REQD
1	7-316-269	BARREL ASSEMBLY		1
2	7-316-270	ROD ASSEMBLY		1
3	7-316-273	HEAD		1
4	7-316-108	PISTON		1
5	7-316-53	SEAL / PISTON	(*)	1
6	7-316-213	WEAR RING / PISTON	(*)	2
7	7-316-74	SELF-LOCKING NUT		1
8	7-316-87	O-RING	(*)	1
9	7-316-85	O-RING / HEAD	(*)	1
10	7-316-86	BACK-UP RING / HEAD	(*)	1
11	7-316-50	WEAR RING / HEAD	(*)	2
12	7-316-214	WEAR RING / HEAD	(*)	1
13	7-316-30	ROD SEAL	(*)	1
14	7-316-36	WIPER / SHAFT	(*)	1
15	7-316-272	HEX HEAD CAPSCREW		8
16	7-316-271	STROKE LIMITER		1
17	7-316-150	LUBE FITTING		1
18				
19	7-900-73	SEAL KIT / ITEMS MARKED	(*)	REF

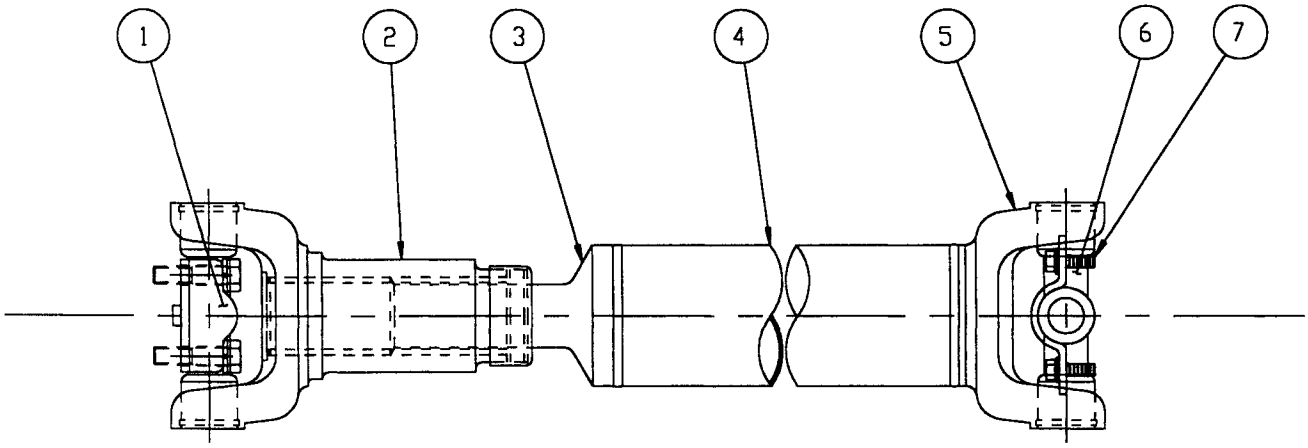


ITEM	NUMBER	DESCRIPTION		REQD
1	7-316-285	BARREL ASSEMBLY		1
2	7-316-286	ROD ASSEMBLY		1
3	7-316-287	HEAD		1
4	7-316-108	PISTON		1
5	7-316-53	SEAL / PISTON	(*)	1
6	7-316-213	WEAR RING / PISTON	(*)	2
7	7-316-74	SELF-LOCKING NUT		1
8	7-316-87	O-RING	(*)	1
9	7-316-85	O-RING / HEAD	(*)	1
10	7-316-86	BACK-UP RING / HEAD	(*)	1
11	7-316-43	WEAR RING / HEAD	(*)	2
12	7-316-19	ROD SEAL	(*)	1
13	7-316-216	WIPER / SHAFT	(*)	1
14	7-316-95	HEX HEAD CAPSCREW		8
15	7-316-150	LUBE FITTING		1
16				
17	7-900-76	SEAL KIT / ITEMS MARKED	(*)	REF

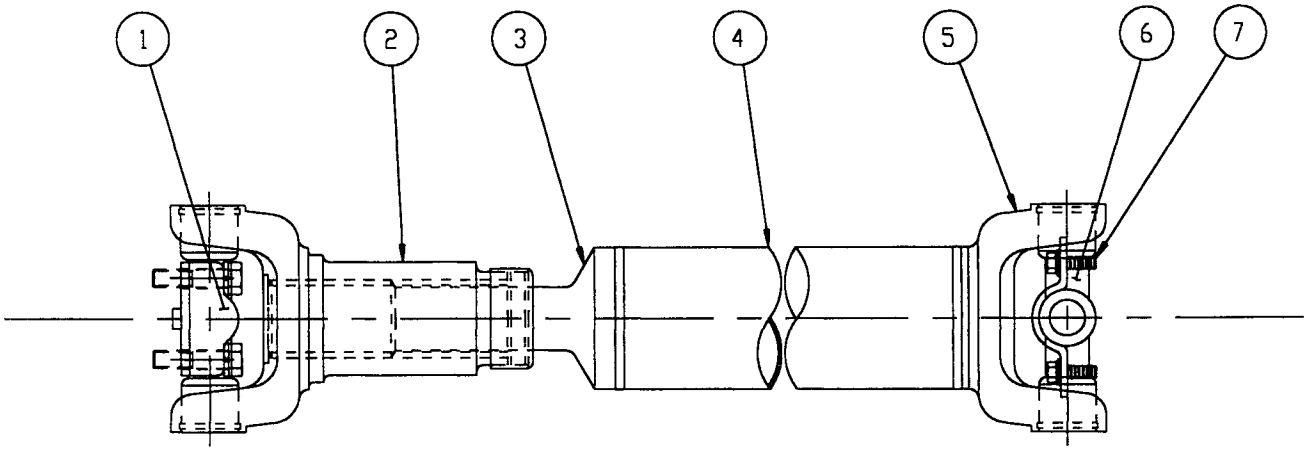


ITEM	NUMBER	DESCRIPTION		REQD
1	7-316-274	BARREL ASSEMBLY		1
2	7-316-275	ROD ASSEMBLY		1
3	7-316-277	HEAD		1
4	7-316-278	PISTON		1
5	7-316-217	SEAL / PISTON	(*)	1
6	7-316-219	WEAR RING / PISTON	(*)	2
7	7-316-73	SELF-LOCKING NUT		1
8	7-316-80	O-RING	(*)	1
9	7-316-218	O-RING / HEAD	(*)	1
10	7-316-220	BACK-UP RING / HEAD	(*)	1
11	7-316-212	WEAR RING / HEAD	(*)	2
12	7-316-19	ROD SEAL	(*)	1
13	7-316-216	WIPER / SHAFT	(*)	1
14	7-316-97	HEX HEAD CAPSCREW		8
15	7-316-276	STROKE LIMITER		1
16	7-316-150	LUBE FITTING		2
17				
18	7-900-72	SEAL KIT / ITEMS MARKED	(*)	REF

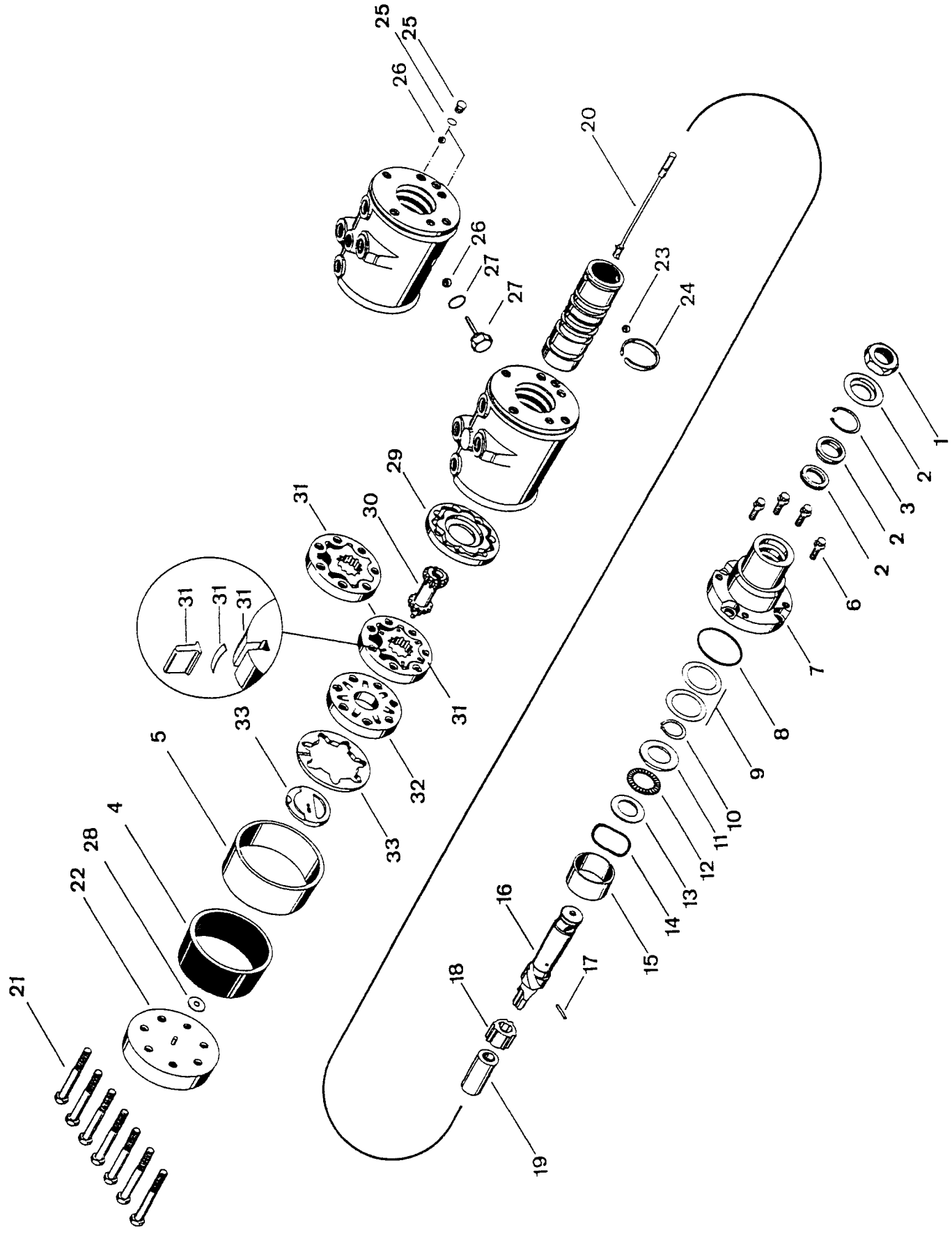
NOTES



ITEM	NUMBER	DESCRIPTION	REQD
1	7-196-54	CROSS & BEARING ASSEMBLY	1
2	7-196-55	SLIP YOKE	1
3	7-196-56	SLIP STUB	1
4	7-196-62	TUBE WELDMENT	1
5	7-196-58	WELD YOKE	1
6	7-196-59	CROSS & BEARING ASSEMBLY	1
7	7-196-51	STRAP KIT	1
8	7-196-52	DRIVESHAFT ASSY (ITEMS 1 THRU 7)	REF

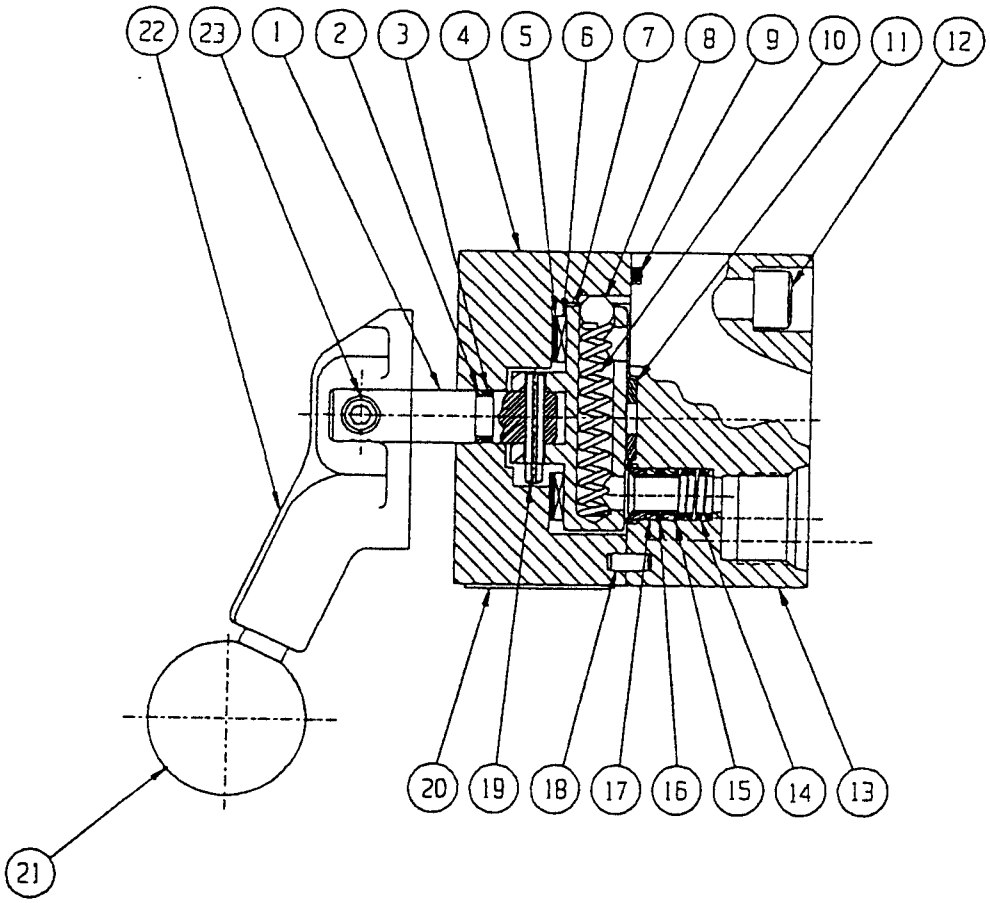


ITEM	NUMBER	DESCRIPTION	REQD
1	7-196-54	CROSS & BEARING ASSEMBLY	1
2	7-196-55	SLIP YOKE	1
3	7-196-56	SLIP STUB	1
4	7-196-68	TUBE WELDMENT	1
5	7-196-58	WELD YOKE	1
6	7-196-59	CROSS & BEARING ASSEMBLY	1
7	7-196-51	STRAP KIT	1
8	7-196-67	DRIVESHAFT ASSY (ITEMS 1 THRU 7)	REF

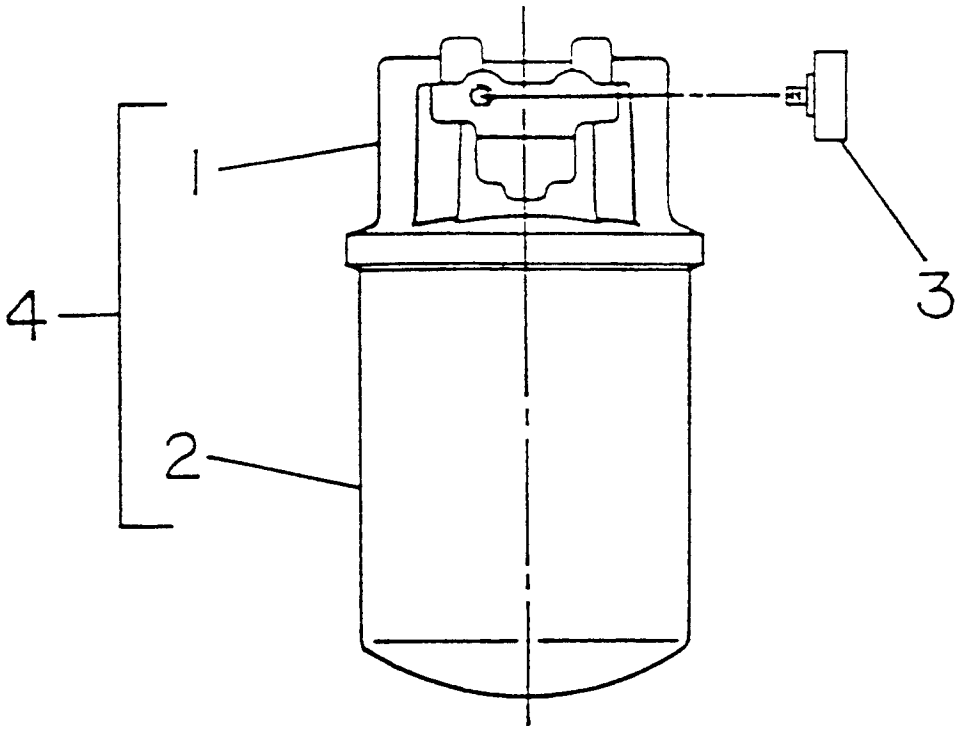


41	PAGE NUMBER	ORBITRAL ASSEMBLY / 7-256-71 TH528		DRAWING NUMBER	P1-1290

ITEM	NUMBER	DESCRIPTION	REQD
1	7-256-37	NUT	1
2	7-256-35	SEAL KIT	1
3	7-256-38	SNAP RING	1
4	7-256-72	SEAL	1
5	7-256-73	CAN	1
6	7-256-41	FINE THREAD SCREWS	4
7	7-256-42	UPPER COVER	1
8	7-256-43	SEAL	1
9	7-256-44	SHIM KIT	1
10	7-256-45	SNAP RING	1
11	7-256-46	THRUST WASHER	1
12	7-256-47	THRUST	1
13	7-256-48	THRUST BEARING	1
14	7-256-49	SPRING WASHER	1
15	7-256-50	SPACER WASHER	1
16	7-256-51	INPUT SHAFT	1
17	7-256-52	NEEDLE ROLLER	1
18	7-256-53	DRIVE RING	1
19	7-256-74	SPACER	1
20	7-256-75	TORSION BAR	1
21	7-256-76	FINE THREAD BOLTS	7
22	7-256-57	END COVER	1
23	7-256-58	BALL / 5/16 DIA.	1
24	7-256-59	SPRING	1
25	7-256-60	PLUG & O-RING	2
26	7-256-61	BALL / 1/4" DIA.	2
27	7-256-62	PLUG ASSEMBLY	1
28	7-256-63	WASHER	1
29	7-256-64	SPACER	1
30	7-256-77	DRIVE LINK	1
31	7-256-78	ROTOR SET	1
32	7-256-67	MANIFOLD	1
33	7-256-68	COMMUTATOR ASSEMBLY	1

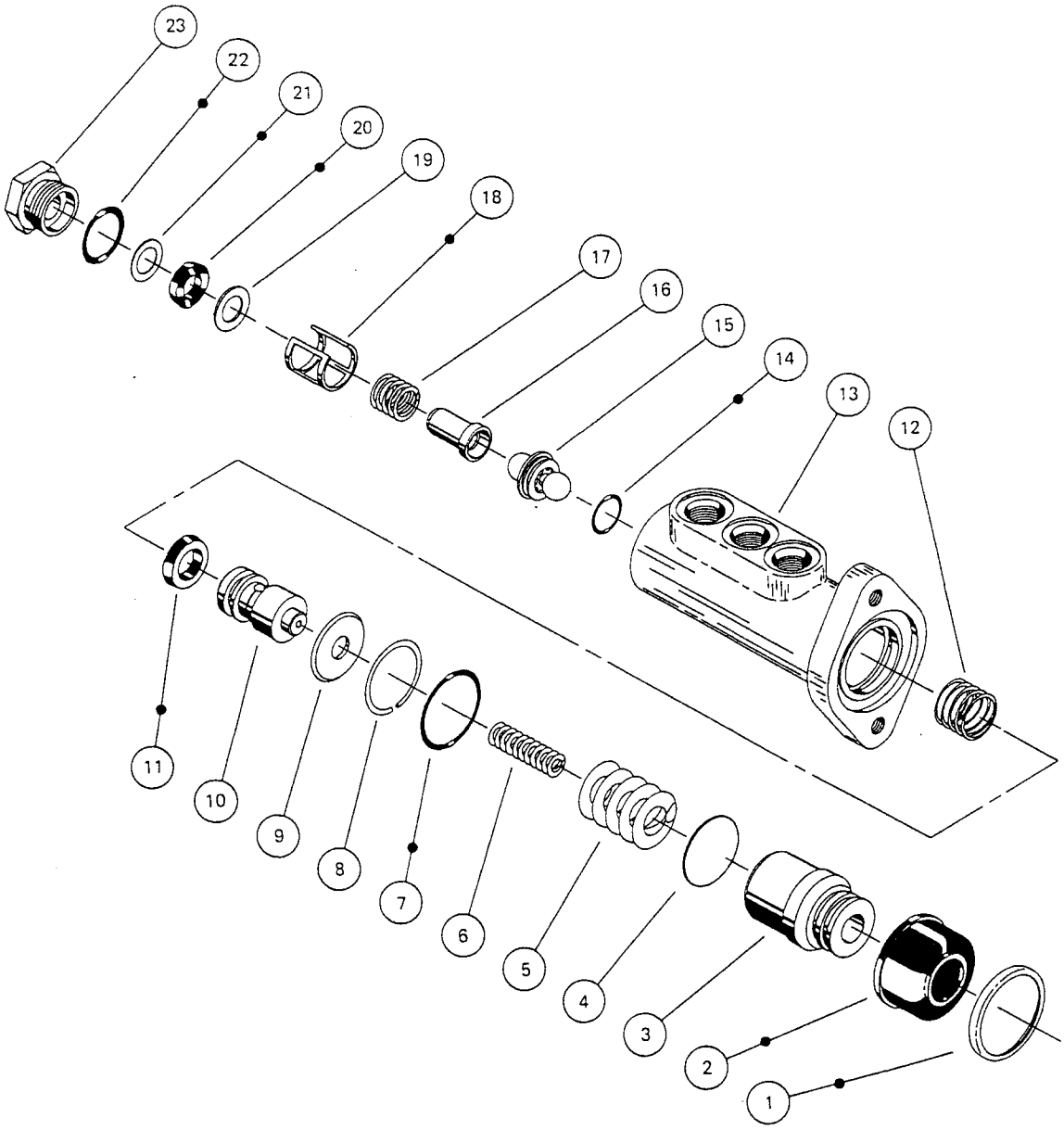

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ITEM	NUMBER	DESCRIPTION	REQD
1		SHAFT	1
2	7-359-06	BACK UP RING - SHAFT	1
3	7-359-07	O-RING - SHAFT	1
4		HOUSING	1
5		THRUST WASHER	1
6	7-359-08	THRUST BEARING	1
7	7-359-09	ROTOR	1
8	7-359-10	BALL - DETENT	1
9	7-359-11	O-RING - HOUSING	1
10	7-359-12	SPRING - DETENT	1
11		WASHER - SPACER	1
12		SCREW - BODY	4
13		BODY	1
14	7-359-13	SPRING - PRESS. SEAL	4
15	7-359-14	PRESSURE SEAL	4
16	7-359-07	O-RING - PRESS. SEAL	4
17	7-359-06	BACK UP RING - PRESS. SEAL	8
18		PIN - LOCATING	1
19		ROLL PIN - ROTOR	1
20		NAMEPLATE	1
21		KNOB - HANDLE	1
22	7-359-03	HANDLE / 5/8 LONG	1
23		SET SCREW	2



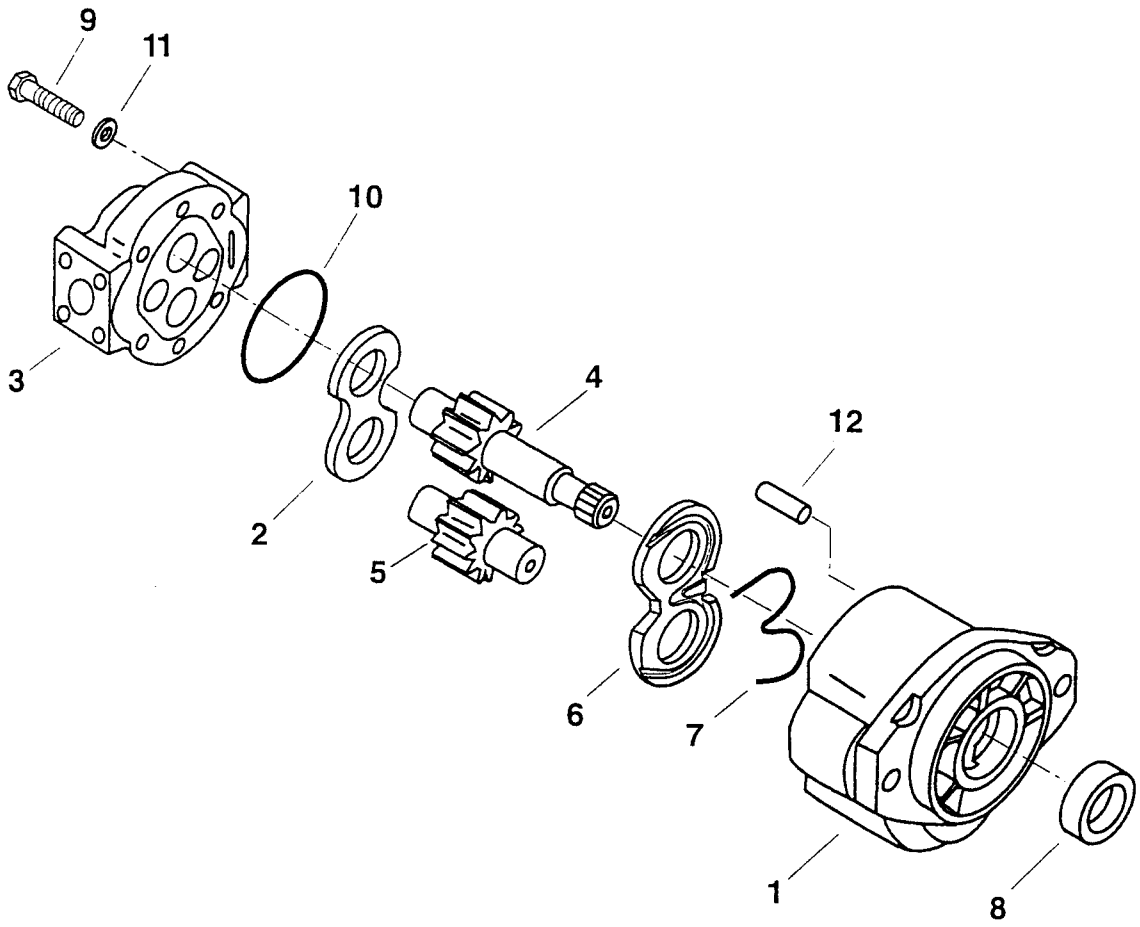
ITEM	NUMBER	DESCRIPTION	REQD
1	7-256-24	HEAD	1
2	7-256-05	ELEMENT & O-RING	1
3	7-272-10	GAGE	1
4	7-256-23	FILTER ASSEMBLY	1

NOTES



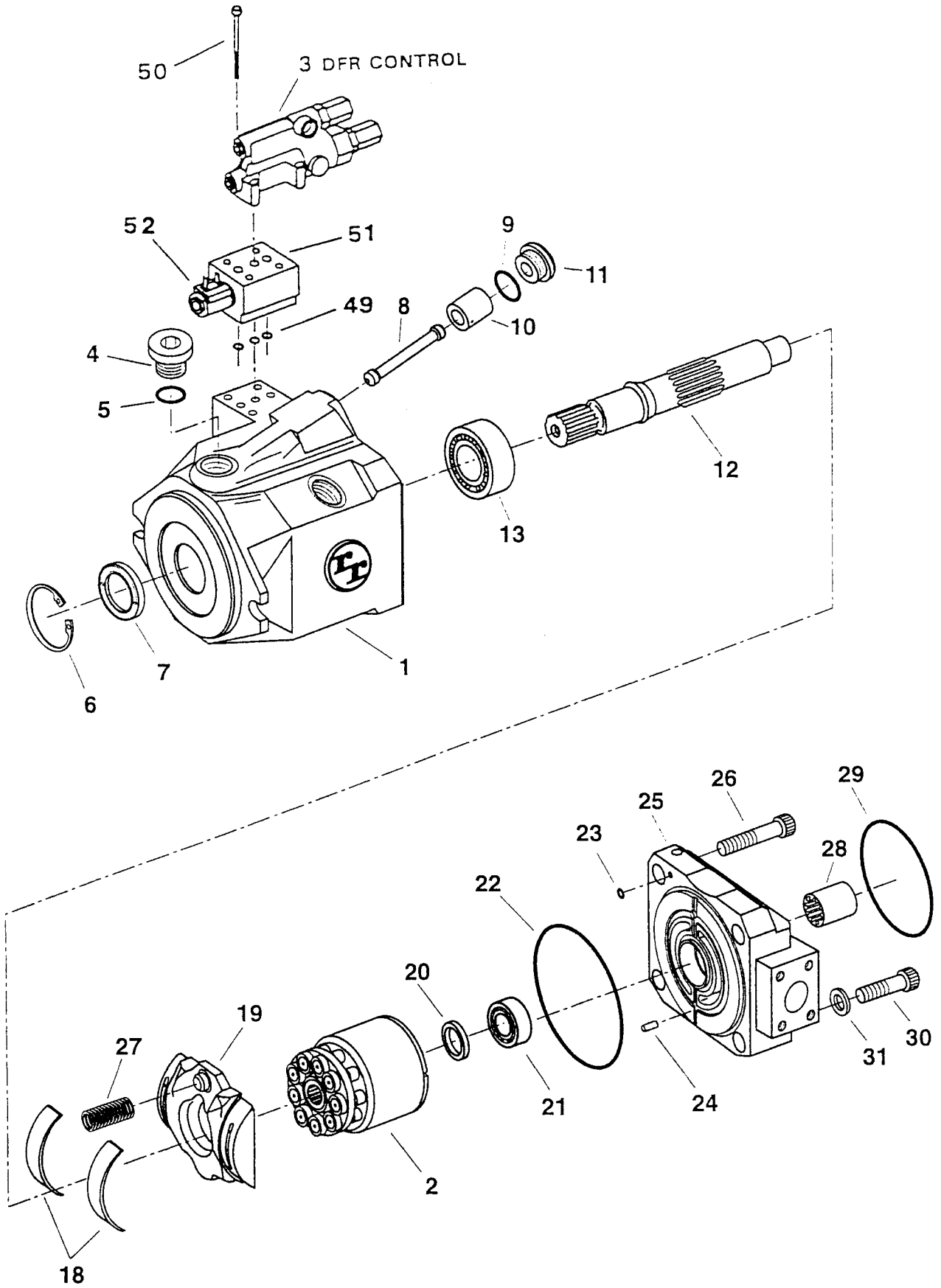
44	PAGE NUMBER	BRAKE VALVE ASSEMBLY / 7-198-43 TH528		DRAWING NUMBER	P1-1242

ITEM	NUMBER	DESCRIPTION	REQD
1	7-198-09	RING	1
2	7-198-20	BOOT	1
3		PISTON	1
4		SHIM / ITEMS 25-28	
5		SPRING	1
6		SPRING	
7	7-198-21	O-RING	1
8		RETAINER RING	1
9		WASHER	1
10		PISTON	1
11	7-198-13	CUP	1
12		SPRING	1
13		HOUSING	1
14	7-198-15	O-RING	1
15		VALVE & BALL ASSEMBLY	1
16		GUIDE	1
17		SPRING	1
18	7-198-16	SPACER SHEEVE	1
19		WASHER	1
20	7-198-18	CUP	1
21	7-198-29	BACK-UP RING	1
22	7-198-19	O-RING	1
23		PLUG	1
24			
25	7-198-05	SHIM / AS REQD	
26	7-198-06	SHIM / AS REQD	
27	7-198-07	SHIM / AS REQD	
28	7-198-08	SHIM / AS REQD	
29			
30	7-198-40	KIT-ITEMS 1, 2, 7, 11, 14, 18, 20, 21, & 22	



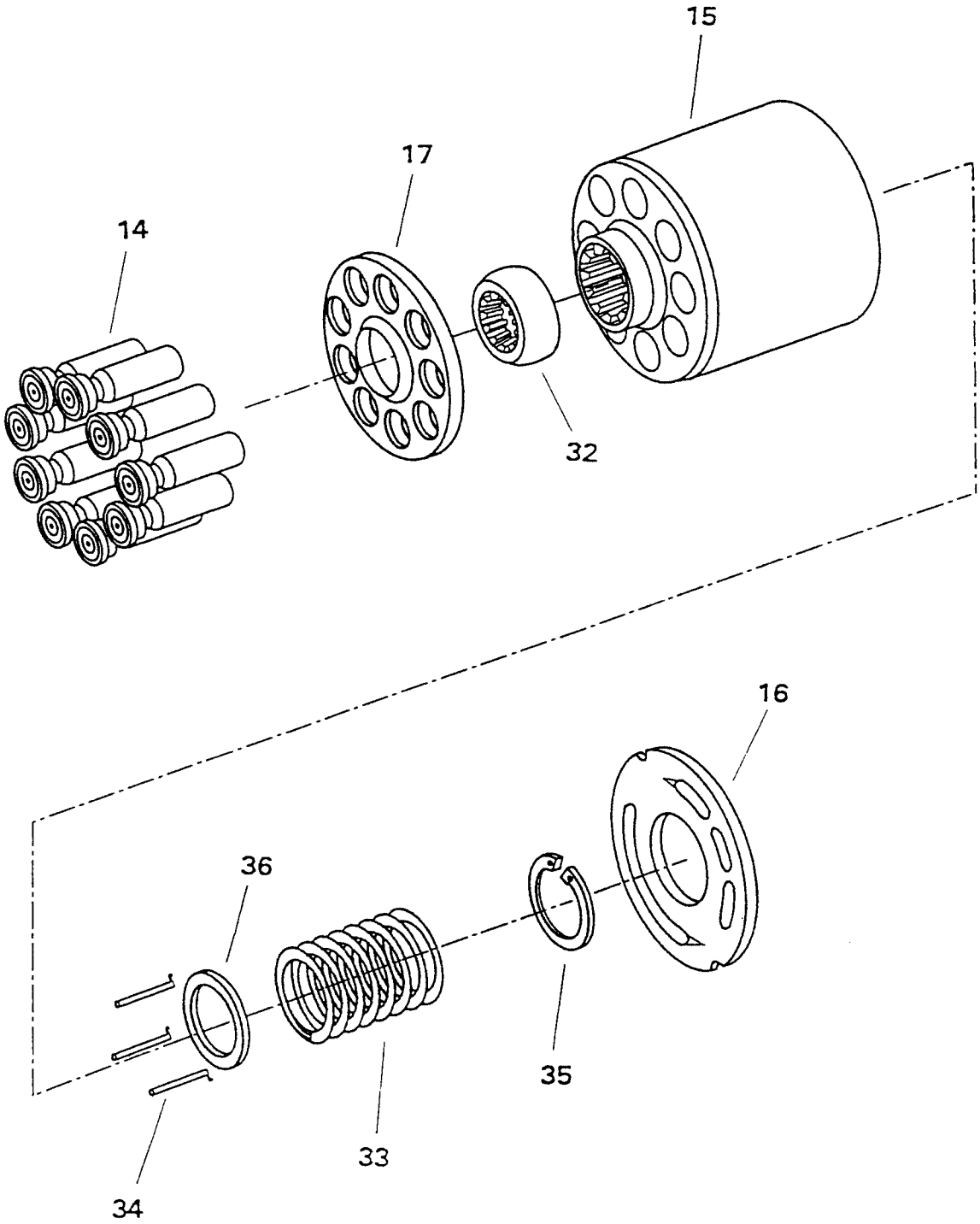
45	PAGE NUMBER	HYDRAULIC GEAR PUMP / 7-345-57 TH528		DRAWING NUMBER	P4-2027

ITEM	NUMBER	DESCRIPTION	REQD
1	7-345-116	FRONT BODY	1
2	7-345-117	THRUST PLATE	1
3	7-345-118	REAR COVER	1
4	7-345-119	DRIVE GEAR	1
5	7-345-120	DRIVEN GEAR	1
6	7-345-121	WEAR PLATE	1
7	7-345-122	LOAD SEAL	1
8	7-345-123	SHAFT SEAL	1
9	7-345-124	CAPSCREW	4
10	7-345-125	STATIC SEAL	1
11	7-345-126	WASHER	4
12	7-345-127	DOWEL PIN	2
13	7-345-128	SEAL KIT (INCL. ITEMS 7, 8, & 10)	REF

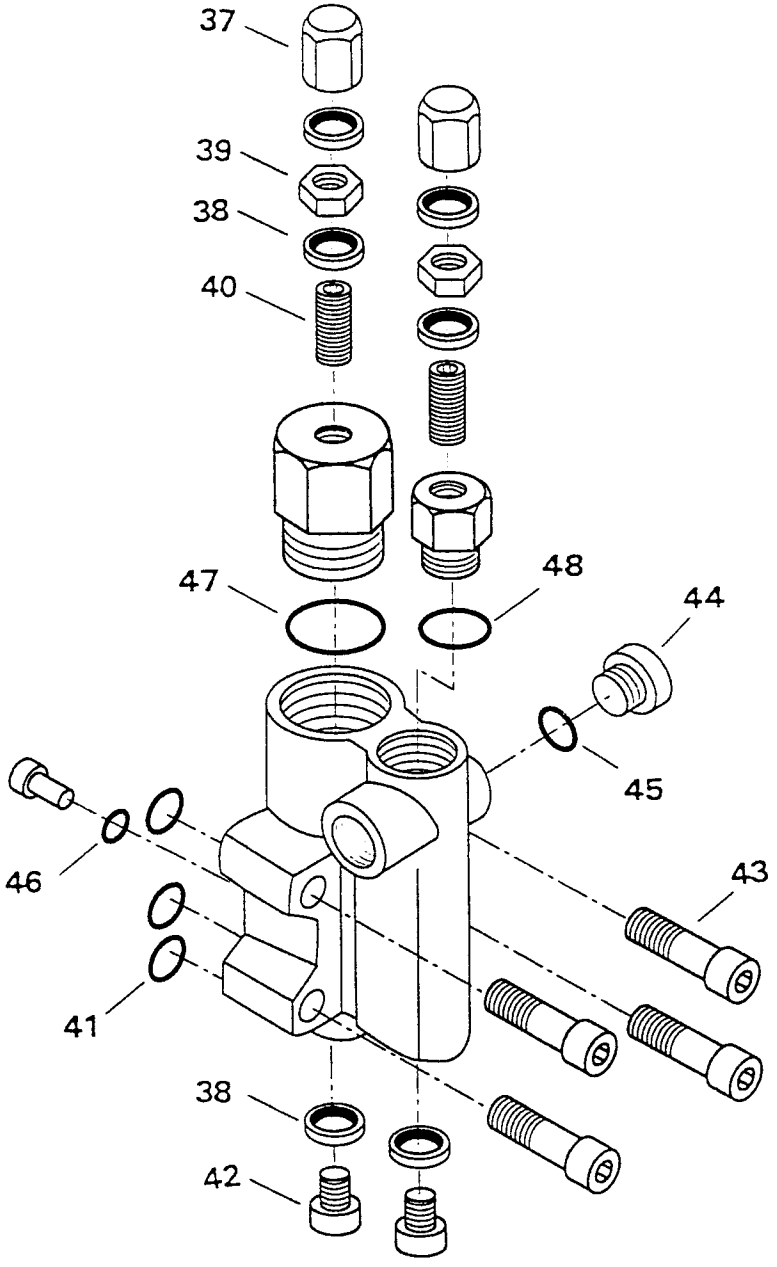


46	PAGE NUMBER	HYRAULIC PISTON PUMP / 7-345-56 TH528		DRAWING NUMBER	P4-2028

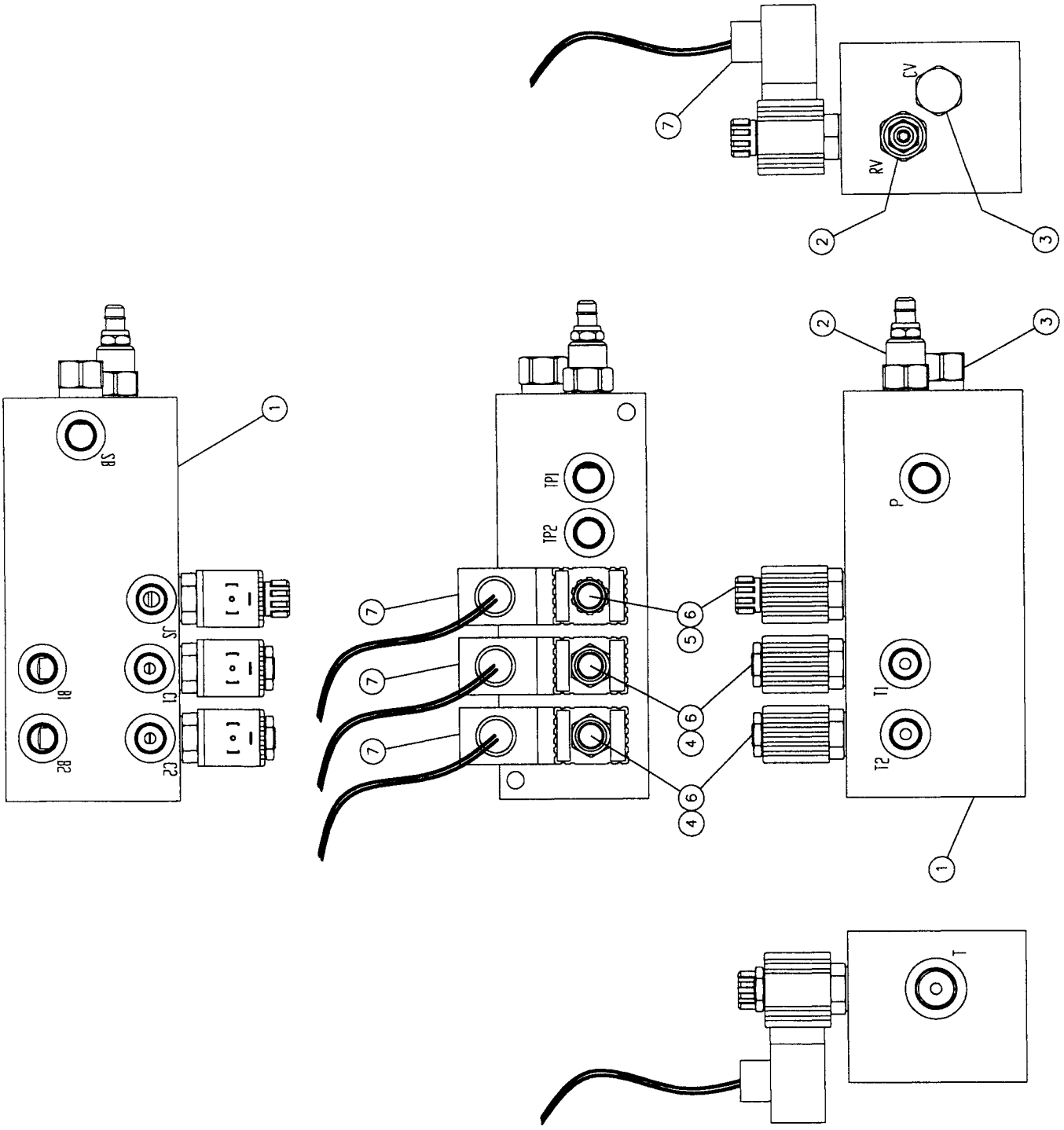
ITEM 2
ROTARY GROUP CW
PARTS BREAKDOWN



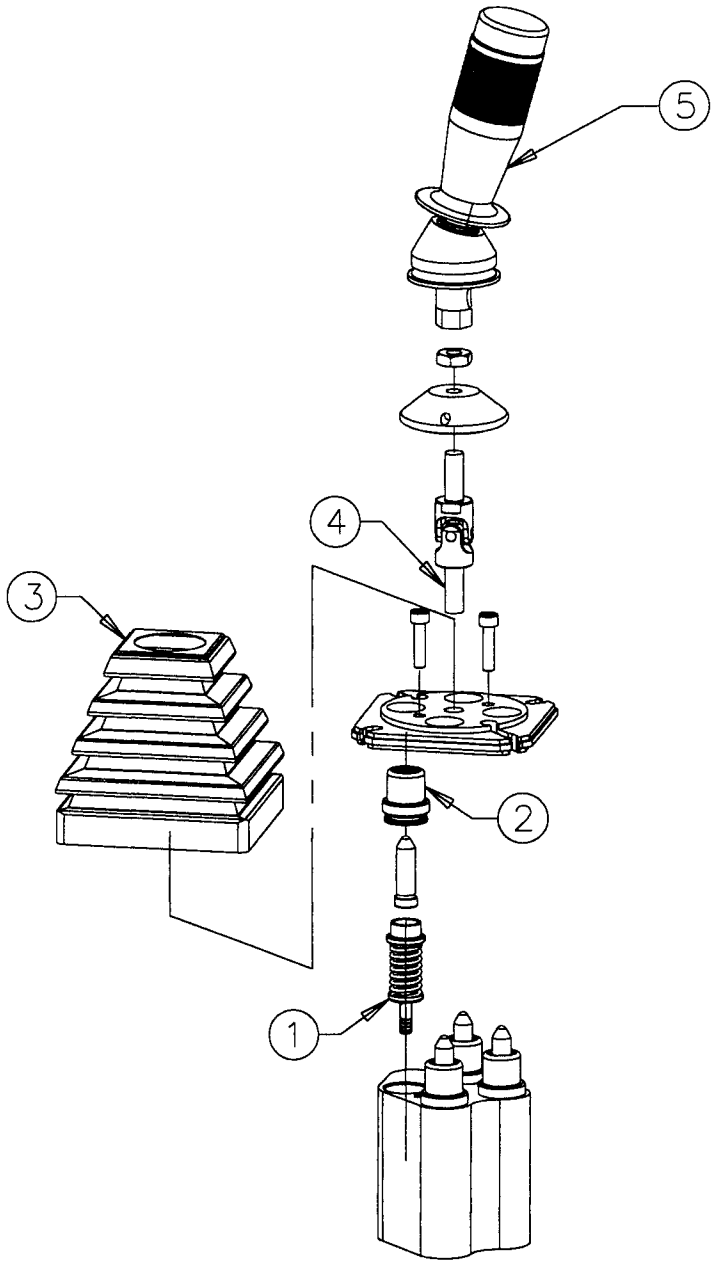
ITEM 3
DFR CONTROL
PARTS BREAKDOWN



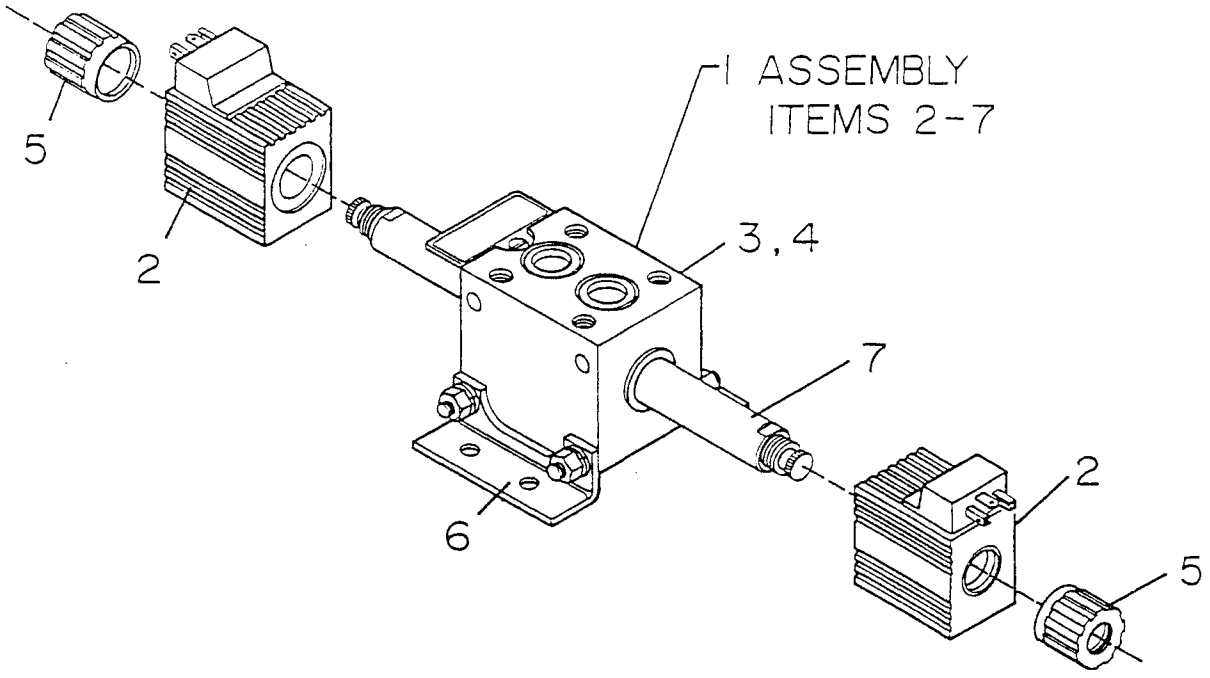
ITEM	NUMBER	DESCRIPTION		REQD
1	7-345-138	HOUSING		1
2	7-345-139	ROTARY GROUP CW		1
3	7-345-140	DFR CONTROL		1
4	7-345-05	PLUG		1
5	7-345-06	O-RING (INCLUDED WITH ITEM 4)	(*)	1
6	7-345-141	SEEGER-V-RING		1
7	7-345-142	SHAFT SEAL	(*)	1
8	7-345-10	ROD		1
9	7-345-11	O-RING	(*)	1
10	7-345-143	PISTON		1
11	7-345-144	PLUG		1
12	7-345-145	SHAFT		1
13	7-345-15	TAPERED ROLLER BEARING		1
14	7-345-129	PISTON		9
15	7-345-130	BARREL		1
16	7-345-131	LENS PLATE		1
17	7-345-132	RETAINING PLATE		1
18	7-345-146	SWASH PLATE BEARING	(**)	2
19	7-345-147	SWASH PLATE		1
20	7-345-148	PRELOAD SHIM		1
21	7-345-19	TAPERED ROLLER BEARING	(**)	1
22	7-345-149	O-RING	(*)	1
23	7-345-150	QUAD RING	(*)	1
24	7-345-22	DOWEL PIN		1
25	7-345-151	BLOCK PORT ASSEMBLY		1
26	7-345-152	CAPSCREW		4
27	7-345-153	SPRING		1
28	7-345-91	COUPLING		1
29	7-345-88	O-RING	(*)	1
30	7-345-154	CAPSCREW		2
31	7-345-155	WASHER		2
32	7-345-133	RETAINING BALL		1
33	7-345-134	SPRING		1
34	7-345-135	PRESSURE PIN		3
35	7-345-136	SNAP RING		1
36	7-345-137	DISC RETAINING CLIP		1
37	7-345-36	ACORN NUT		2
38	7-345-37	USIT RING	(*)	6
39	7-345-38	JAM NUT		2
40	7-345-39	ADJUSTING SCREW		2
41	7-345-40	O-RING	(*)	3
42	7-345-41	PLUG		2
43	7-345-42	CAPSCREW		4
44	7-345-43	PLUG		1
45	7-345-45	O-RING (INCLUDED WITH ITEM 44)	(*)	1
46	7-345-46	O-RING	(*)	1
47	7-345-06	O-RING	(*)	1
48	7-345-47	O-RING	(*)	1
49	7-345-52	O-RING		3
50	7-345-53	BOLT		4
51	7-345-49	BLOCK		1
52	7-345-50	CARTRIDGE / 3-WAY		1
53	7-345-51	SEAL KIT (FOR ITEM #52)		REF
54	7-345-114	SEAL KIT / ITEMS MARKED (*)		REF
55	7-345-156	BEARING KIT / ITEMS MARKED (**)		REF


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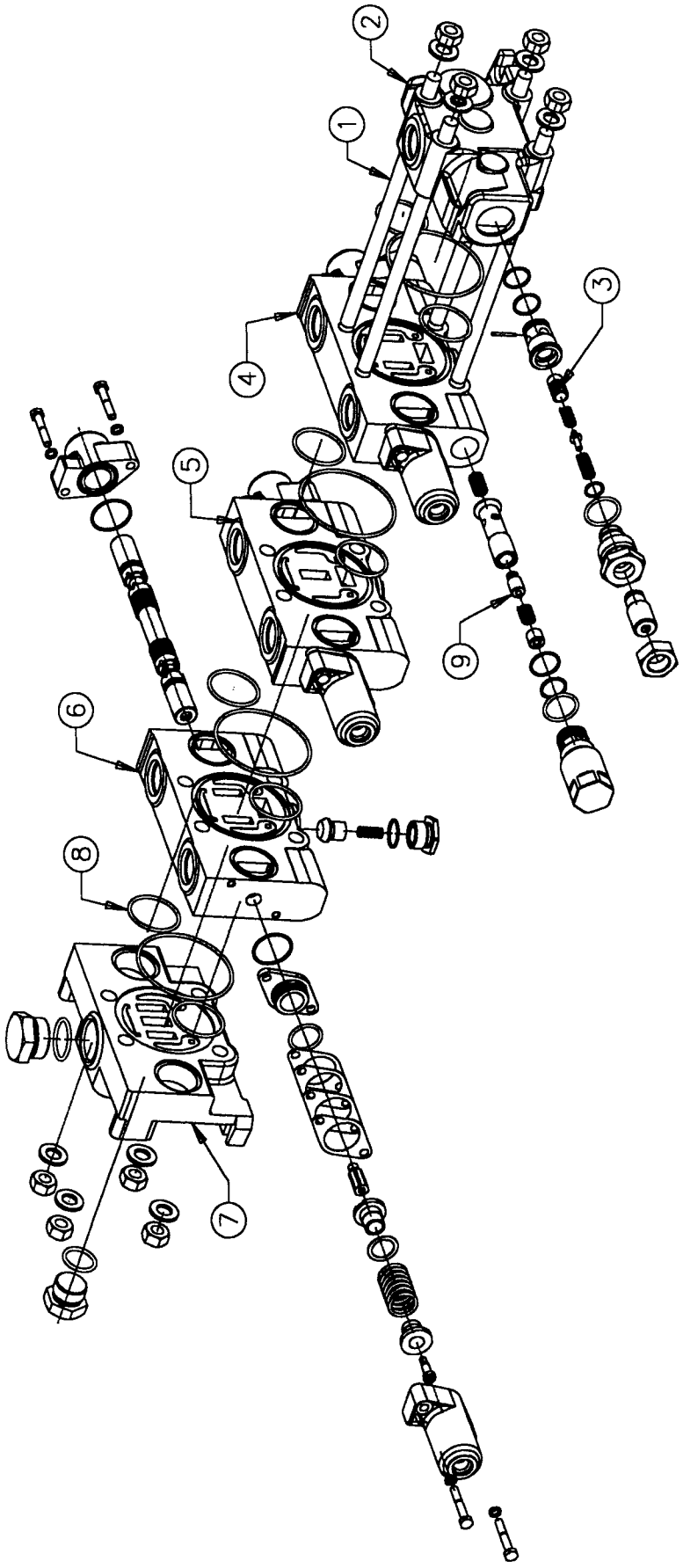
ITEM	NUMBER	DESCRIPTION	REQD
1	7-234-91	VALVE BODY	1
2	7-234-92	REDUCING / RELIEVING VALVE	1
3	7-234-93	CHECK VALVE / 15 PSI	1
4	7-244-42	SOLENOID VALVE	2
5	7-244-67	SOLENOID VALVE	1
6	7-244-66	COIL / DIN	1
7	7-244-27	DIN CONNECTOR	3
8	7-234-90	CONTROL BLOCK ASSEMBLY (ITEMS 1-6)	1



ITEM	NUMBER	DESCRIPTION	REQD
1	7-358-16	SPRING PACK	4
2	7-358-17	GUIDE & SEAL ASSEMBLY	4
3	7-358-18	BOOT	1
4	7-358-19	UNIVERSAL JOINT ASSEMBLY	1
5	7-358-20	COMPLETE HANDLE ASSEMBLY	1



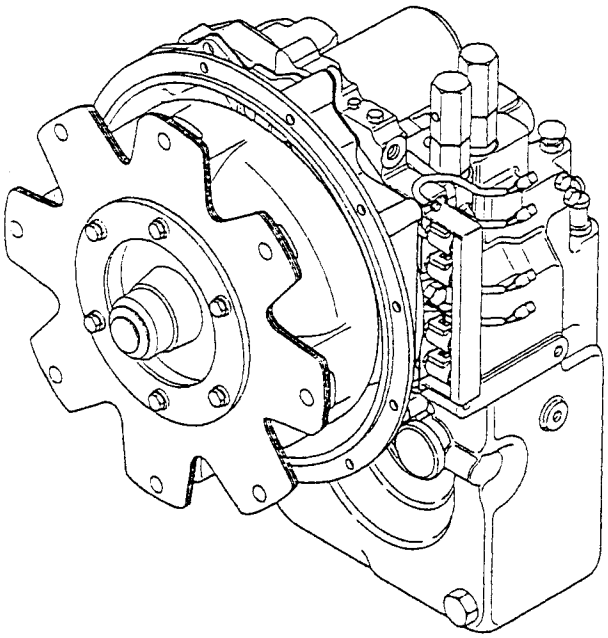
ITEM	NUMBER	DESCRIPTION	REQD
1	7-244-31	ELECTRIC VALVE ASSY / 4-WAY	1
2	7-244-40	COIL / DIN	2
3	7-244-17	SPOOL	1
4	7-244-18	VALVE BODY	1
5	7-244-19	END CAP	2
6	7-244-44	BRACKET ASSEMBLY	1
7	7-244-24	TUBES & PIN / SPOOL ACTUATING	1



50	PAGE NUMBER	MAIN VALVE ASSEMBLY / 7-358-11 TH528		DRAWING NUMBER	P4-2191

ITEM	NUMBER	DESCRIPTION	REQD
1	7-358-21	STUD KIT (INCL. TIE RODS, NUTS, & WASHERS)	1
2	7-358-22	INLET ASSEMBLY (EXCLUDES MRV)	1
3	7-358-23	MRV ASSEMBLY	1
4	7-358-30	SECTION ASSEMBLY	1
5	7-358-25	SECTION ASSEMBLY	1
6	7-358-24	SECTION ASSEMBLY	1
7	7-358-27	OUTLET ASSEMBLY	1
8	7-358-26	O-RING KIT (FOR ENTIRE VALVE)	1
9	7-358-29	RELIEF VALVE ASSEMBLY	1

TRANSMISSION PARTS BOOK TH528



DATE: 7-9-99

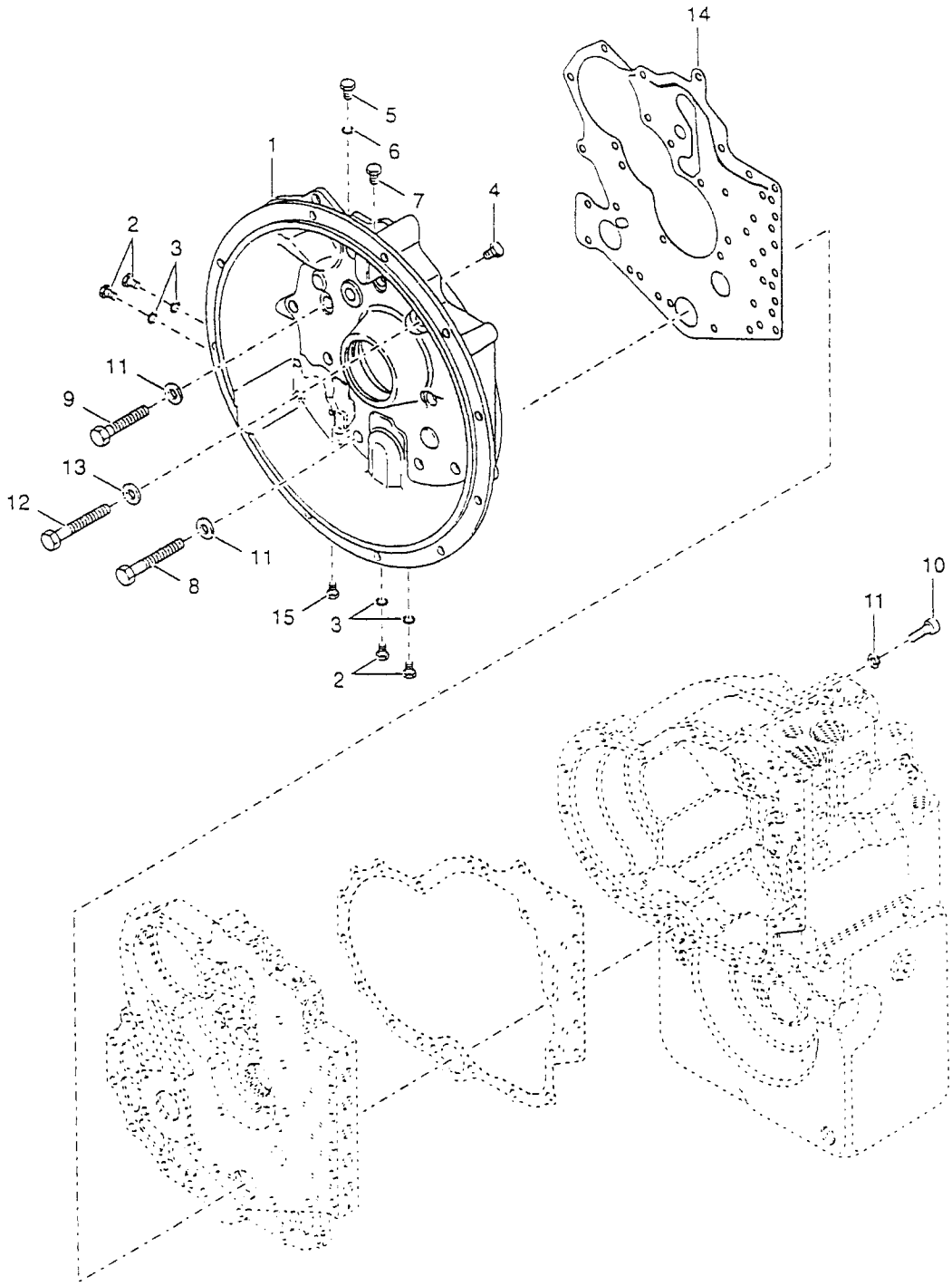
CLARK T12000 SERIES

INTERMEDIATE DROP

TEREX HANDLERS
455 N. Superior Ave., Baraga, MI 49908-0248
PH: (906) 353-6675; FAX: (906) 353-7543
INTERNET: http://www.sqshooter.com

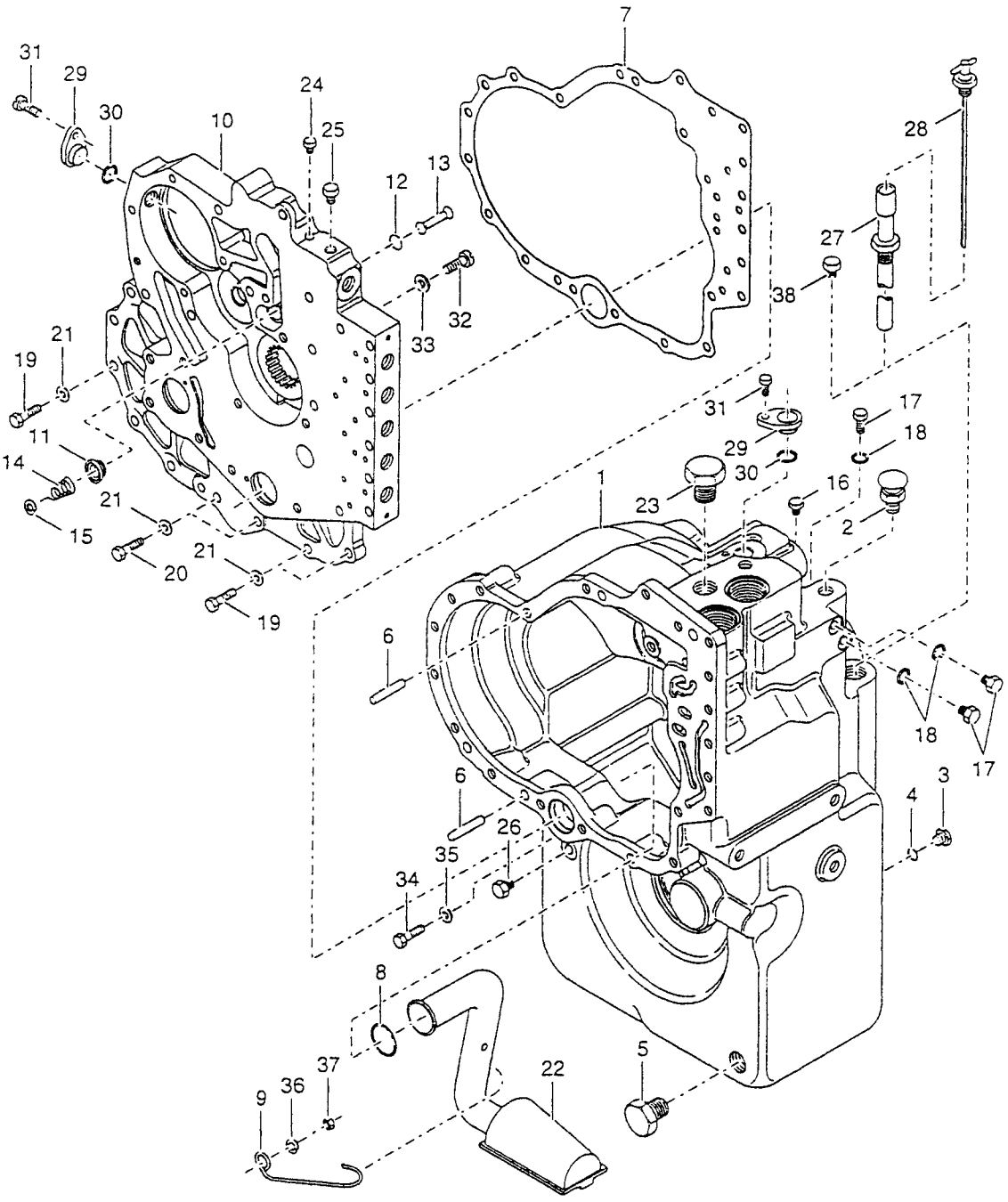
INDEX

PAGE	DESCRIPTION	DRAWING
1	CONVERTER HOUSING GROUP	P1-1244
2	TRANSMISSION CASE AND PLATE GROUP	P1-1245
3	TORQUE CONVERTER GROUP	P1-1246
4	GEAR GROUP	P1-1247
5	PUMP DRIVE GROUP	P1-1248
6	CHARGING PUMP GROUP	P1-1249
7	REVERSE IDLER GROUP	P1-1250
8	FORWARD AND REVERSE SHAFT GROUP	P1-1251
9	3rd SHAFT GROUP	P1-1252
10	FIRST AND SECOND SHAFT GROUP	P1-1253
11	OUTPUT SHAFT GROUP	P1-1254
12	ELECTRIC CONTROL GROUP	P1-1255
13	DRIVE PLATE GROUP	P1-1256

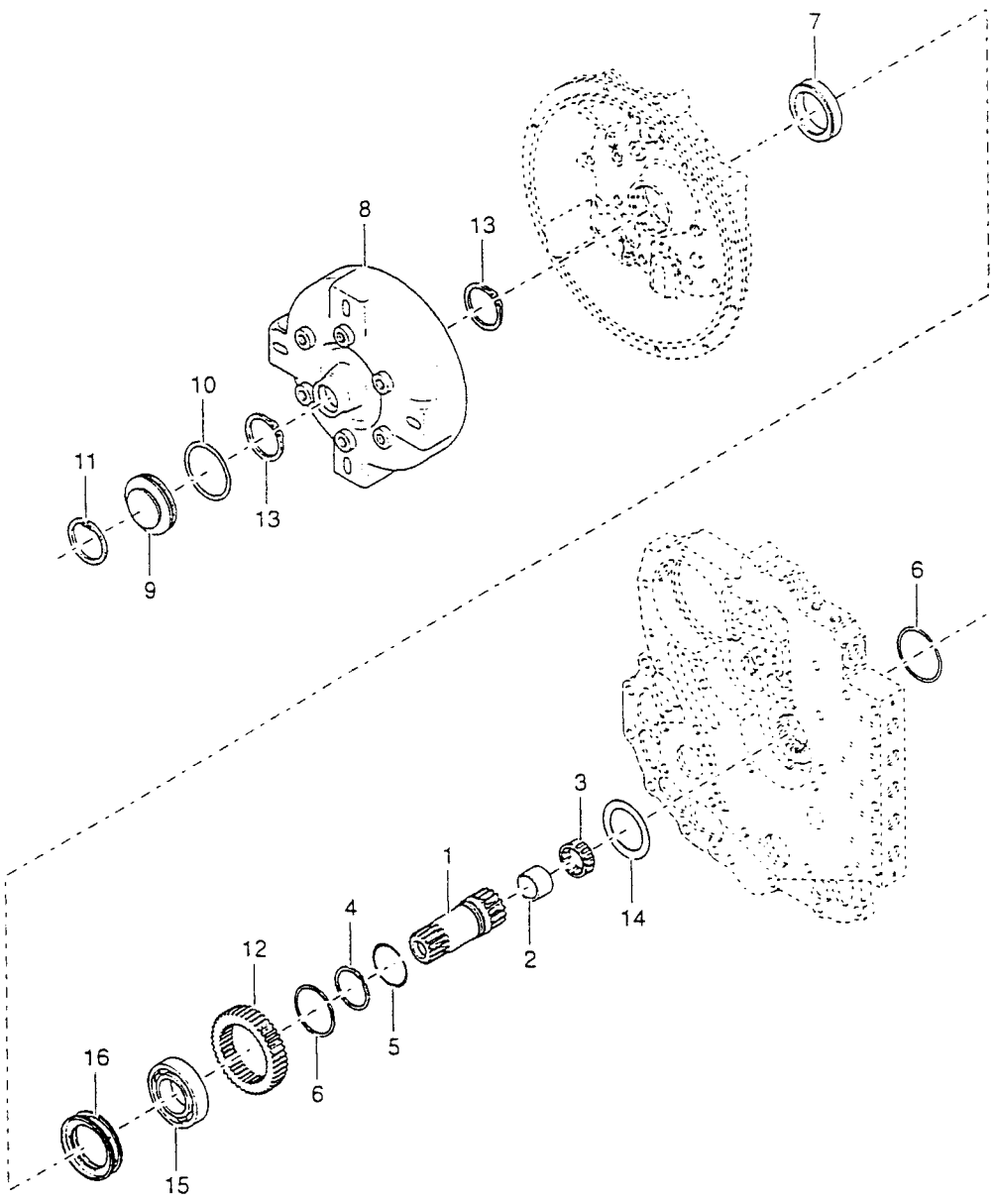


1	PAGE NUMBER	CONVERTER HOUSING GROUP T12000 SERIES TRANSMISSION / TH528	DRAWING NUMBER	P1-1244

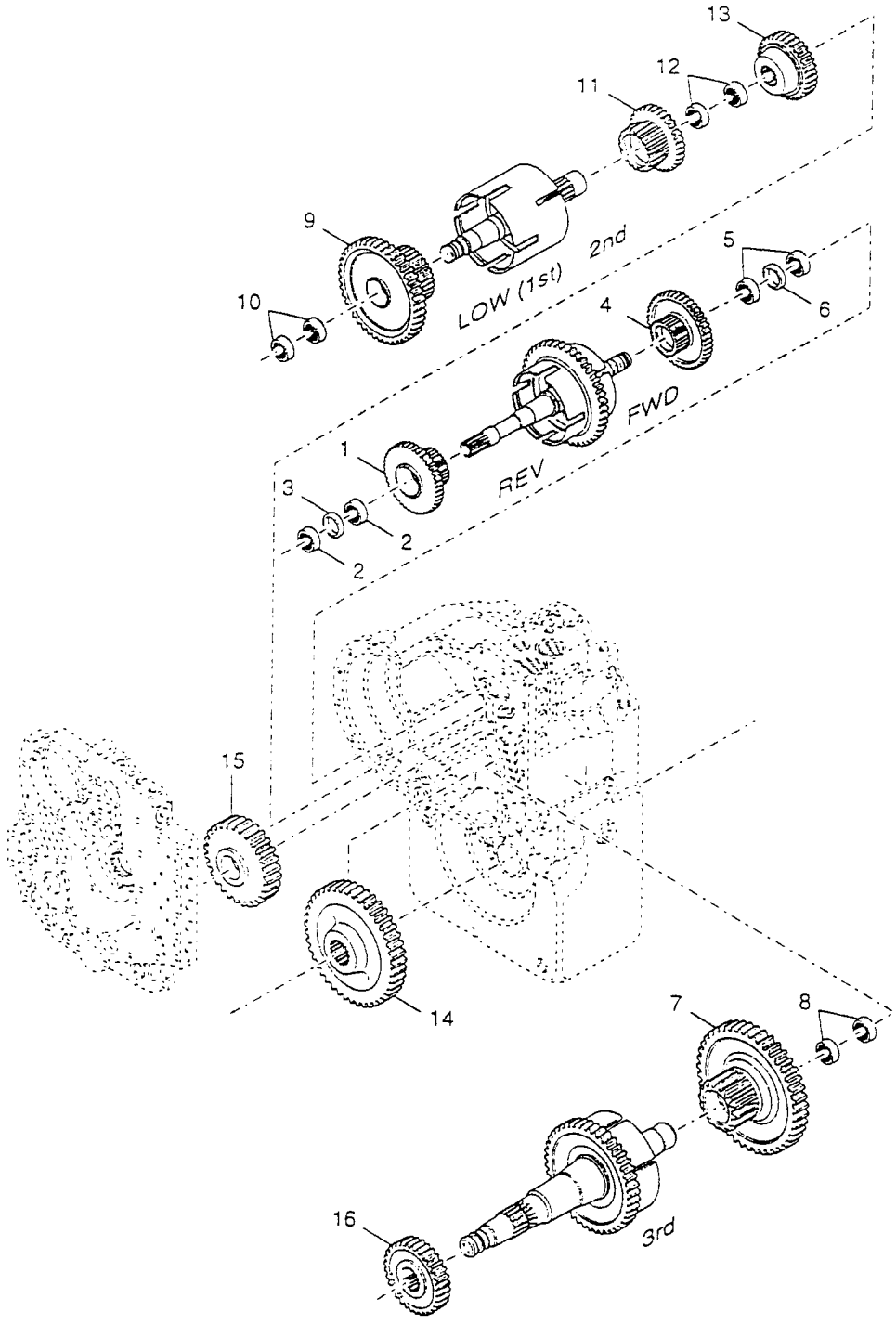
ITEM	NUMBER	DESCRIPTION	REQD
1	7-126-384	CONVERTER HOUSING	1
2	7-126-385	PLUG (INCLUDES ITEM 3)	4
3	7-126-386	O-RING	4
4	7-126-387	PLUG	1
5	7-126-385	PLUG (INCLUDES ITEM 6)	1
6	7-126-386	O-RING	1
7	7-126-04	PLUG	1
8	7-126-388	SCREW	6
9	7-126-389	SCREW	3
10	7-126-390	SCREW	1
11	7-126-391	LOCKWASHER	10
12	7-126-389	SCREW	13
13	7-126-391	LOCKWASHER	13
14	7-126-393	GASKET	1
15	7-126-392	PLUG	1


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ITEM	NUMBER	DESCRIPTION	REQD
1	7-126-394	TRANSMISSION CASE	1
2	7-126-05	BREATHER	1
3	7-126-395	PLUG (INCLUDES ITEM 4)	2
4	7-126-358	O-RING	2
5	7-126-33	PLUG / MAGNETIC DRAIN	1
6	7-126-396	PIN	2
7	7-126-357	GASKET	1
8	7-126-359	RING	1
9	7-126-397	CLIP	1
10	7-126-398	SPACER	1
11	7-126-399	SEAT	1
12	7-126-400	SNAP RING	1
13	7-126-401	POPPET	1
14	7-126-402	SPRING	1
15	7-126-403	WASHER	1
16	7-126-387	PLUG	1
17	7-126-385	PLUG (INCLUDES ITEM 18)	3
18	7-126-386	O-RING	3
19	7-126-387	SCREW	7
20	7-126-388	SCREW	2
21	7-126-391	LOCKWASHER	9
22	7-126-392	TUBE AND SCREEN ASSEMBLY	1
23	7-126-265	FILLER PLUG	1
24	7-126-387	PLUG	1
25	7-126-04	PLUG	1
26	7-126-393	PLUG	1
27	7-126-270	DIPSTICK TUBE	1
28	7-126-394	DIPSTICK ASSEMBLY	1
29	7-126-404	PLUG	2
30	7-126-356	O-RING	2
31	7-126-405	SCREW	2
32	7-126-406	SCREW	1
33	7-126-407	WASHER	1
34	7-126-408	SCREW	1
35	7-126-407	WASHER	1
36	7-126-409	WASHER	1
37	7-126-410	NUT	1

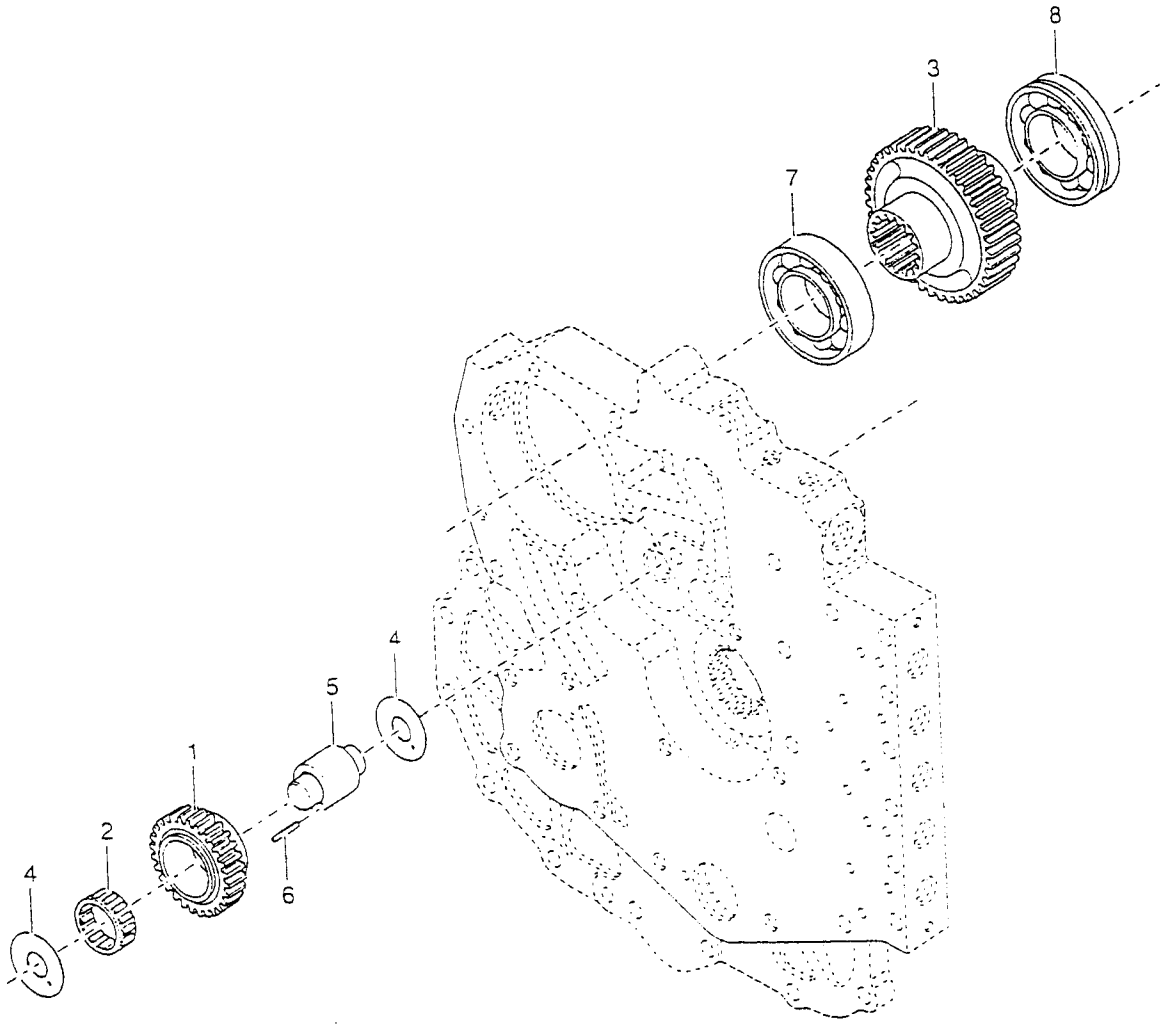

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ITEM	NUMBER	DESCRIPTION	REQD
1	7-126-411	STATOR SUPPORT ASSY (INCL. ITEMS 2-3)	1
2	7-126-412	BUSHING	1
3	7-126-413	BEARING	1
4	7-126-414	STATOR SUPPORT PISTON RING	1
5	7-126-415	EXPANDER	1
6	7-126-416	SNAP RING	2
7	7-126-360	SEAL	1
8	7-126-353	TORQUE CONVERTER ASSEMBLY	1
9	7-126-234	TORQUE CONVERTER PLUG	1
10	7-126-233	O-RING	1
11	7-126-277	SNAP RING	1
12	7-126-417	IMPELLER HUB GEAR	1
13	7-126-418	SNAP RING	2
14	7-126-419	WASHER	1
15	7-126-420	BEARING	1
16	7-126-421	OIL DISTRIBUTOR RING	1



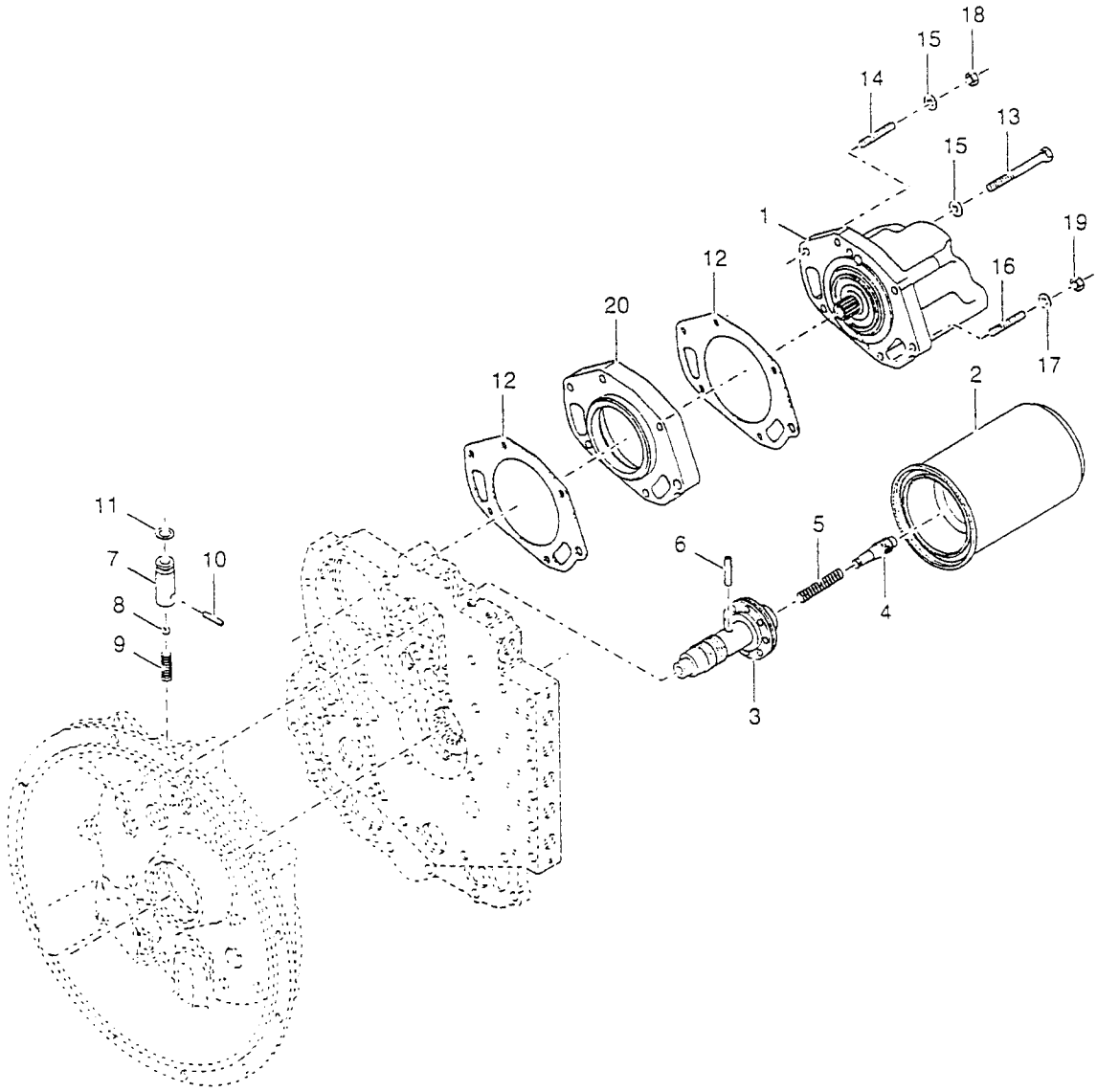
4	PAGE NUMBER	GEAR GROUP T12000 SERIES TRANSMISSION / TH528	DRAWING NUMBER	P1-1247

ITEM	NUMBER	DESCRIPTION	REQD
1	7-126-422	REV CL. GEAR & BRNG ASSY (INCL. ITEMS 2-3)	1
2	7-126-423	BEARING	2
3	7-126-424	SPACER	1
4	7-126-425	FWD CL. GEAR & BRNG ASSY (INCL. ITEMS 5-6)	1
5	7-126-423	BEARING	2
6	7-126-424	SPACER	1
7	7-126-428	3rd CL. GEAR & BRNG ASSY (INCL. ITEM 8)	1
8	7-126-429	BEARING	2
9	7-126-430	1st CL. GEAR & BRNG ASSY (INCL. ITEM 10)	1
10	7-126-423	BEARING	2
11	7-126-432	2nd CL. GEAR & BRNG ASSY (INCL. ITEM 12)	1
12	7-126-423	BEARING	2
13	7-126-427	3rd DRIVEN GEAR	1
14	7-126-426	OUTPUT SHAFT GEAR	1
15	7-126-431	REVERSE IDLER GEAR	1
16	7-126-433	FIRST DRIVEN GEAR	1



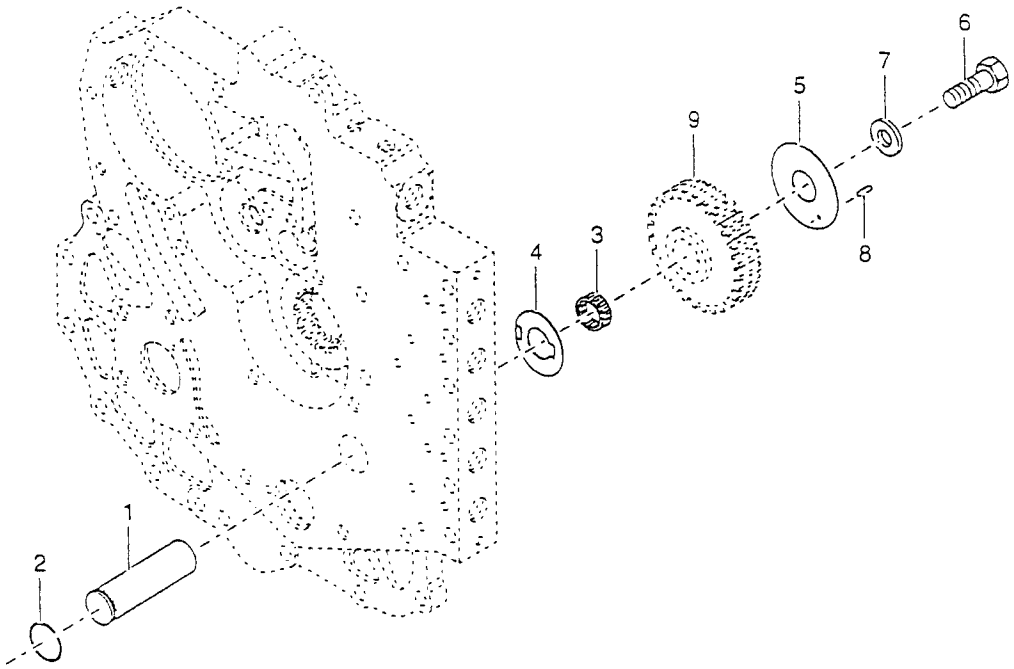
5	PAGE NUMBER	PUMP DRIVE GROUP T12000 SERIES TRANSMISSION / TH528	DRAWING NUMBER	P1-1248

ITEM	NUMBER	DESCRIPTION	REQD
1	7-126-434	PUMP DRIVE IDLER GEAR	1
2	7-126-435	BEARING	1
3	7-126-436	PUMP DRIVE GEAR	1
4	7-126-437	PUMP DRIVE IDLER THRUST WASHER	2
5	7-126-438	PUMP DRIVE SHAFT & PIN ASSY (INCL. ITEM 6)	1
6	7-126-439	ROLL PIN	1
7	7-126-440	PUMP DRIVE GEAR BEARING	1
8	7-126-441	PUMP DRIVE GEAR BEARING	1



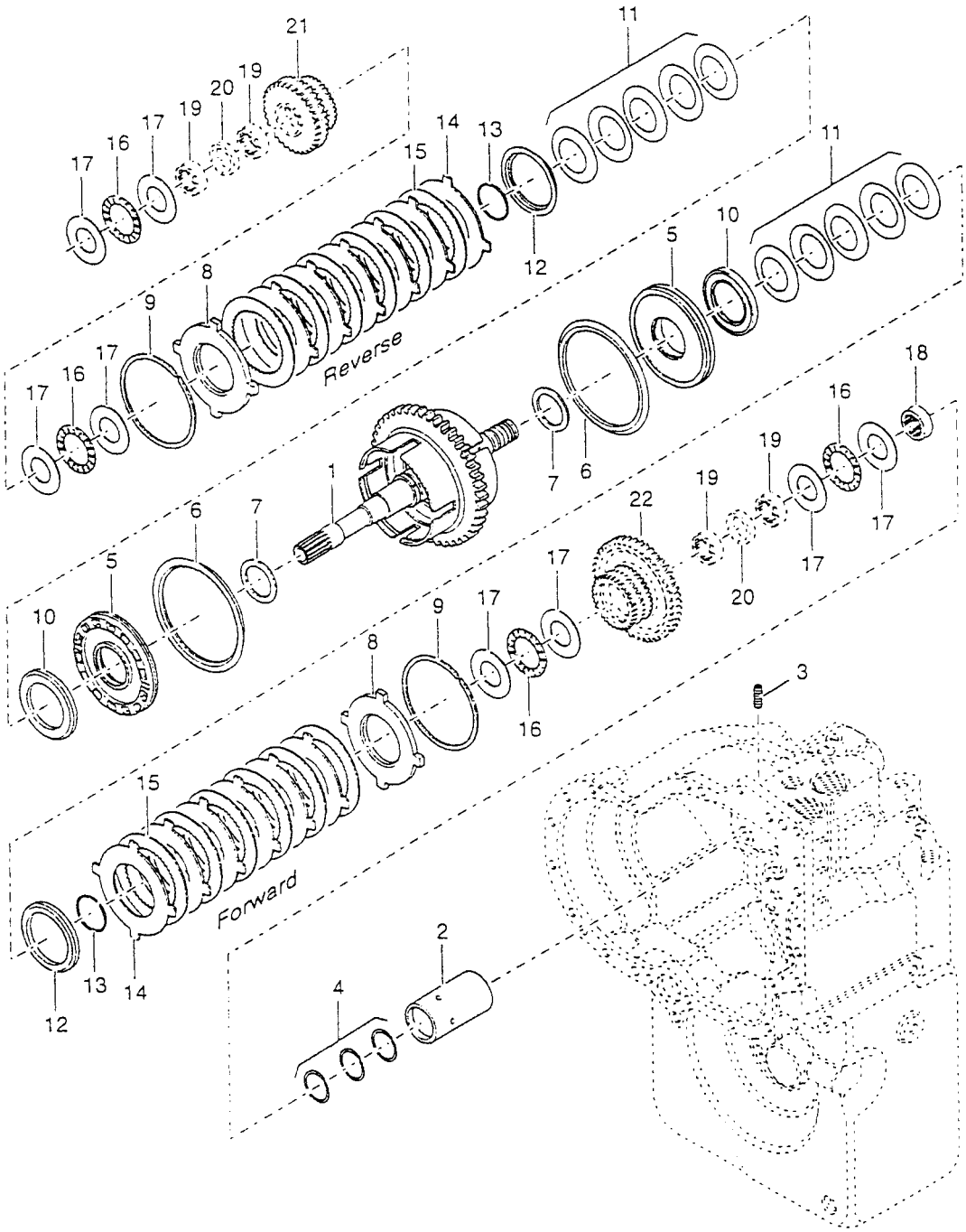
6 PAGE NUMBER	CHARGING PUMP GROUP T12000 SERIES TRANSMISSION / TH528	DRAWING NUMBER	P1-1249

ITEM	NUMBER	DESCRIPTION	REQD
1	7-126-350	CHARGING PUMP ASSEMBLY	1
2	7-126-349	HYDRAULIC SPIN FILTER ASSEMBLY	1
3	7-126-442	REGULATOR VALVE SLEEVE	1
4	7-126-443	REGULATOR VALVE PISTON	1
5	7-126-444	REGULATOR VALVE SPRING	1
6	7-126-445	PIN	1
7	7-126-446	BALL CHECK VALVE ASSY (INCL. ITEMS 7-11)	1
8	7-126-447	BALL	1
9	7-126-448	CHECK VALVE SPRING	1
10	7-126-449	CHECK VALVE PIN	1
11	7-126-361	O-RING	1
12	7-126-362	CHARGING PUMP GASKET	2
13	7-126-450	PUMP MOUNTING SCREW	4
14	7-126-451	PUMP MOUNTING STUD	1
15	7-126-452	LOCKWASHER	5
16	7-126-453	PUMP MOUNTING STUD	1
17	7-126-391	LOCKWASHER	1
18	7-126-454	NUT	1
19	7-126-410	NUT	1
20	7-126-455	PUMP ADAPTOR	1
21	7-126-456	REGULATOR VALVE ASSY (INCL. ITEMS 3-6)	1



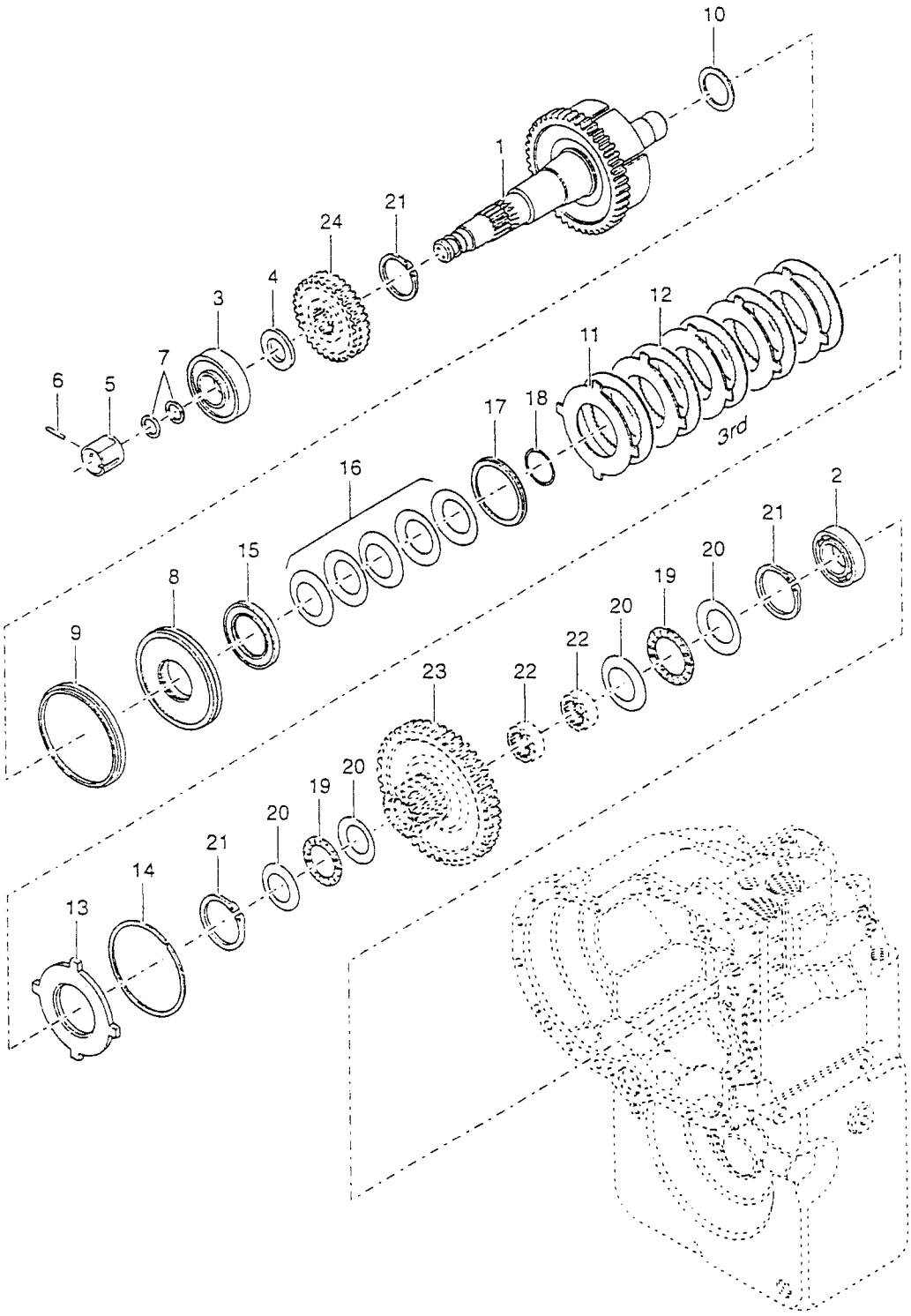
ITEM	NUMBER	DESCRIPTION	REQD
1	7-126-457	IDLER & PILOT SHAFT	1
2	7-126-458	IDLER SHAFT SNAP RING	1
3	7-126-459	REVERSE IDLER GEAR BEARING	1
4	7-126-460	THRUST WASHER	1
5	7-126-461	END PLATE	1
6	7-126-462	CAPSCREW	1
7	7-126-463	WASHER	1
8	7-126-464	ROLL PIN	1
9	7-126-431	REVERSE IDLER GEAR	1

NOTES



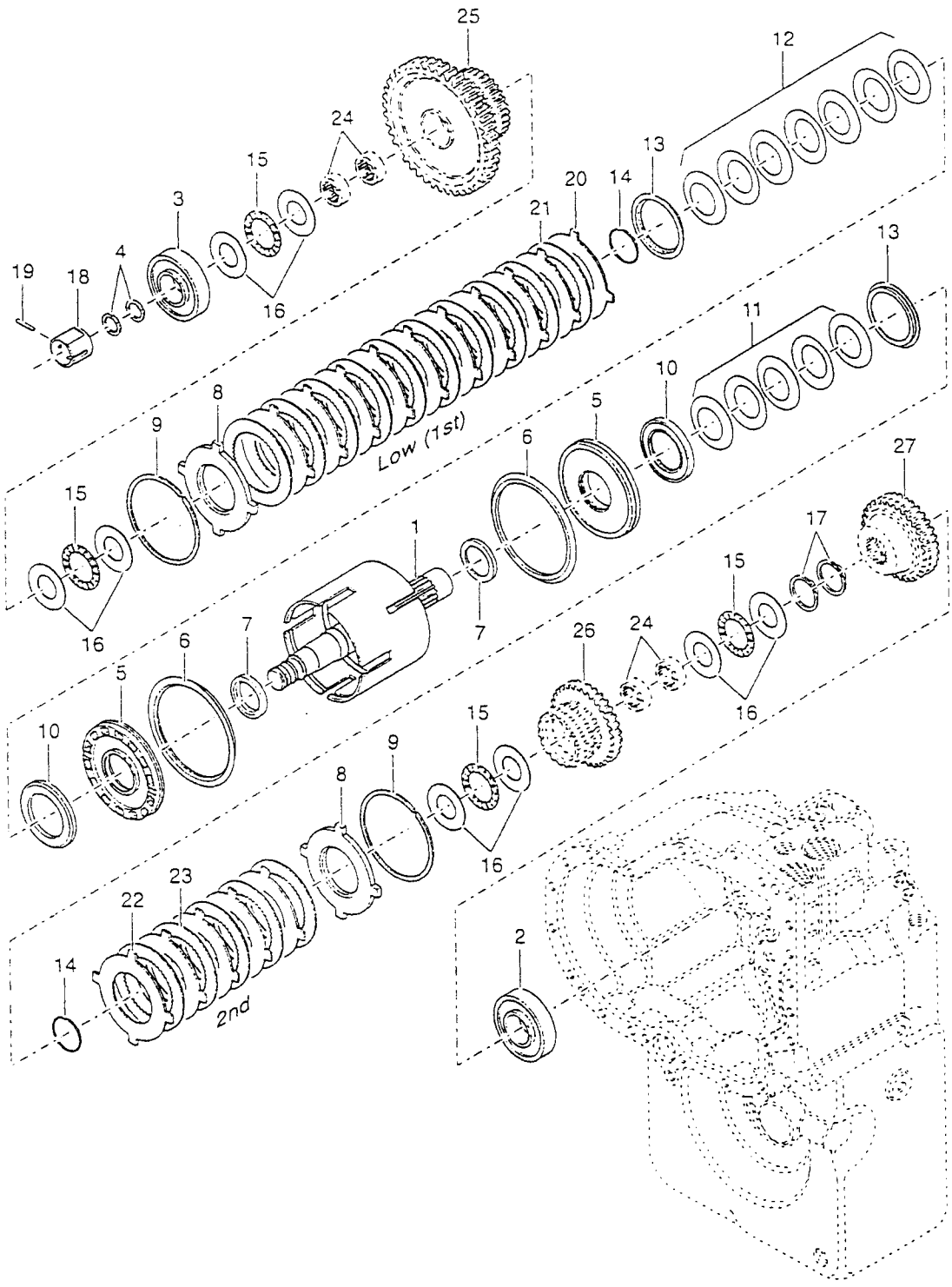
8	PAGE NUMBER	FORWARD & REVERSE SHAFT GROUP T12000 SERIES TRANSMISSION / TH528	DRAWING NUMBER	P1-1251

ITEM	NUMBER	DESCRIPTION	REQD
1	7-126-465	TURBINE SHAFT DRUM & PLUG ASSY	1
2	7-126-466	OIL DISTRIBUTOR SLEEVE	1
3	7-126-467	RETAINER SCREW	1
4	7-126-468	PISTON RING	3
5	7-126-469	PISTON & SEALS ASSY (INCL. ITEMS 6-7)	2
6	7-126-470	OUTER CLUTCH PISTON SEAL	2
7	7-126-471	INNER CLUTCH PISTON SEAL	2
8	7-126-472	END PLATE	2
9	7-126-473	SNAP RING	2
10	7-126-474	CLUTCH PISTON WEAR PLATE	2
11	7-126-475	DISC SPRING ASSEMBLY	2
12	7-126-476	SNAP RING RETAINER	2
13	7-126-477	SNAP RING	2
14	7-126-478	OUTER DISC (6 FORWARD / 6 REVERSE)	12
15	7-126-479	INNER DISC (6 FORWARD / 6 REVERSE)	12
16	7-126-480	CLUTCH GEAR THRUST BEARING	4
17	7-126-481	WASHER	8
18	7-126-482	REAR TURBINE SHAFT BEARING	1
19		CL. GEAR BRNG (SEE GEAR GROUP)	4
20		CL. GEAR BRNG SPACER (SEE GEAR GROUP)	2
21		REV CLUTCH GEAR (SEE GEAR GROUP)	1
22		FWD CLUTCH GEAR (SEE GEAR GROUP)	1



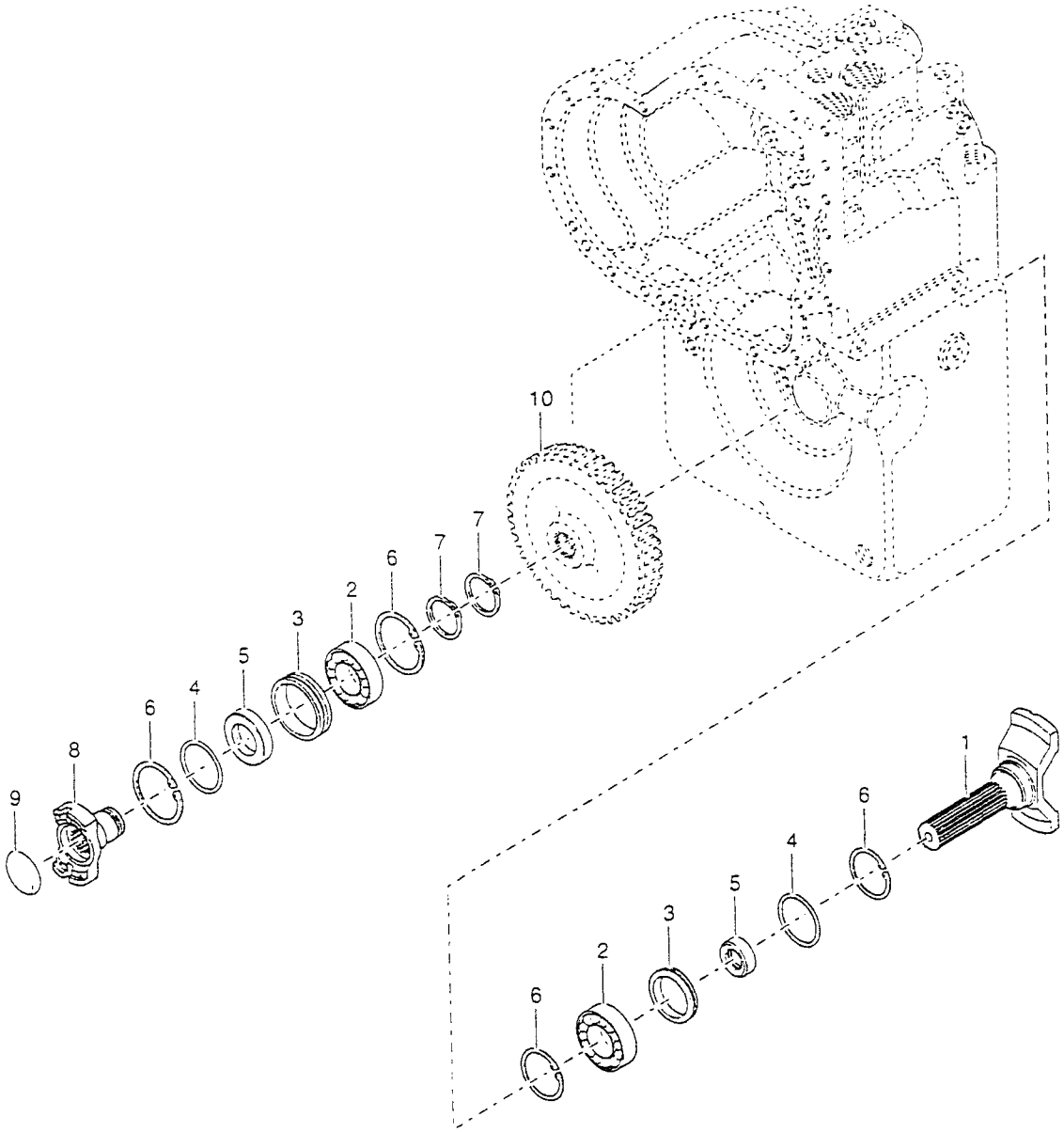
9 PAGE NUMBER	3rd SHAFT GROUP T12000 SERIES TRANSMISSION / TH528	DRAWING NUMBER P1-1252

ITEM	NUMBER	DESCRIPTION	REQD
1	7-126-483	3rd SHAFT, DRUM, & PLUG ASSY	1
2	7-126-484	ROLLER BEARING	1
3	7-126-485	BEARING & SEAL ASSY	1
4	7-126-486	BEARING SUPPORT WASHER	1
5	7-126-487	OIL DISTRIBUTOR SLEEVE	1
6	7-126-488	SCREW	1
7	7-126-468	PISTON RING	2
8	7-126-489	PISTON & SEALS ASSY (INCLUDES ITEMS 9-10)	1
9	7-126-470	OUTER CLUTCH PISTON SEAL	1
10	7-126-471	INNER CLUTCH PISTON SEAL	1
11	7-126-478	OUTER DISC	5
12	7-126-479	INNER DISC	5
13	7-126-472	END PLATE	1
14	7-126-473	SNAP RING	1
15	7-126-474	CLUTCH PISTON WEAR PLATE	1
16	7-126-475	DISC SPRING ASSY (INCL. 5 WASHERS)	1
17	7-126-476	SNAP RING RETAINER	1
18	7-126-477	SNAP RING	1
19	7-126-490	NEEDLE ROLLER THRUST BEARING	2
20	7-126-491	THRUST WASHER	4
21	7-126-492	SNAP RING	3
22	7-126-429	3rd CLUTCH GEAR BEARING (SEE GEAR GROUP)	2
23		3rd CLUTCH GEAR (SEE GEAR GROUP)	1
24		FIRST DRIVE GEAR (SEE GEAR GROUP)	1



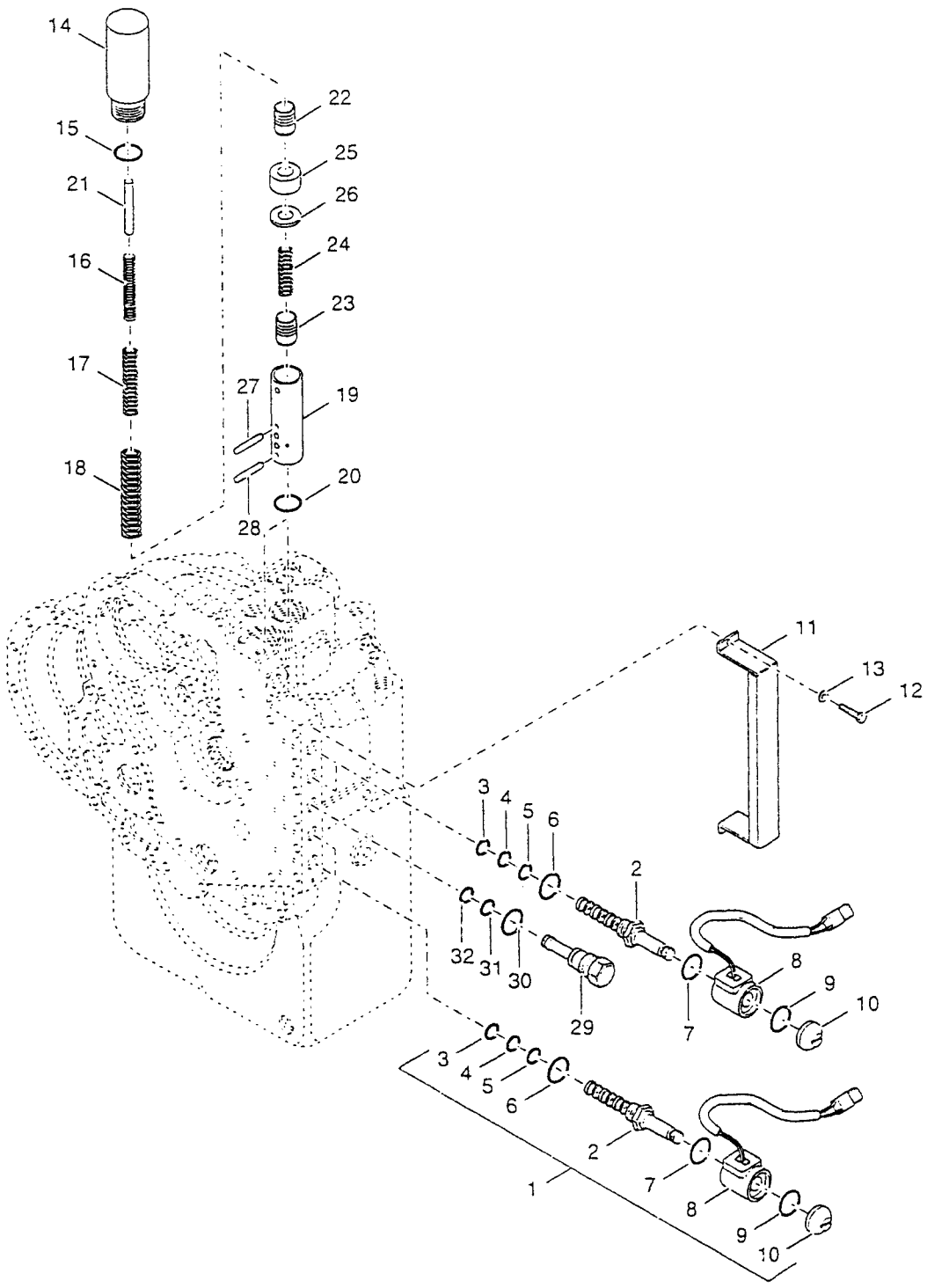
10	PAGE NUMBER	FIRST AND SECOND SHAFT GROUP T12000 SERIES TRANSMISSION / TH528	DRAWING NUMBER	P1-1253

ITEM	NUMBER	DESCRIPTION	REQD
1	7-126-493	1st & 2nd SHAFT, DRUM, PLUG, & SEAT ASSY	1
2	7-126-494	ROLLER BEARING	1
3	7-126-485	BEARING & SEAL ASSY	1
4	7-126-468	PISTON RING	2
5	7-126-495	PISTON & SEALS ASSY (INCL. ITEMS 6 & 7)	2
6	7-126-470	OUTER CLUTCH PISTON SEAL	2
7	7-126-471	INNER CLUTCH PISTON SEAL	2
8	7-126-472	END PLATE	2
9	7-126-473	SNAP RING	2
10	7-126-474	CLUTCH PISTON WEAR PLATE	2
11	7-126-475	2nd DISC SPRING ASSY (INCL. 5 WASHERS)	1
12	7-126-496	1st DISC SPRING ASSY (INCL. 7 WASHERS)	1
13	7-126-476	SNAP RING RETAINER	2
14	7-126-477	SNAP RING	2
15	7-126-480	CLUTCH GEAR THRUST BEARING	4
16	7-126-481	CLUTCH GEAR THRUST WASHER	8
17	7-126-497	SNAP RING	2
18	7-126-498	OIL DISTRIBUTOR SLEEVE	1
19	7-126-499	SLEEVE RETAINING SCREW	1
20	7-126-478	OUTER DISC (1st)	10
21	7-126-479	INNER DISC (1st)	10
22	7-126-478	OUTER DISC (2nd)	5
23	7-126-479	INNER DISC (2nd)	5
24	7-126-423	CLUTCH GEAR BEARING (SEE GEAR GROUP)	4
25		1st CLUTCH GEAR (SEE GEAR GROUP)	1
26		2nd CLUTCH GEAR (SEE GEAR GROUP)	1
27		3rd DRIVEN GEAR (SEE GEAR GROUP)	1



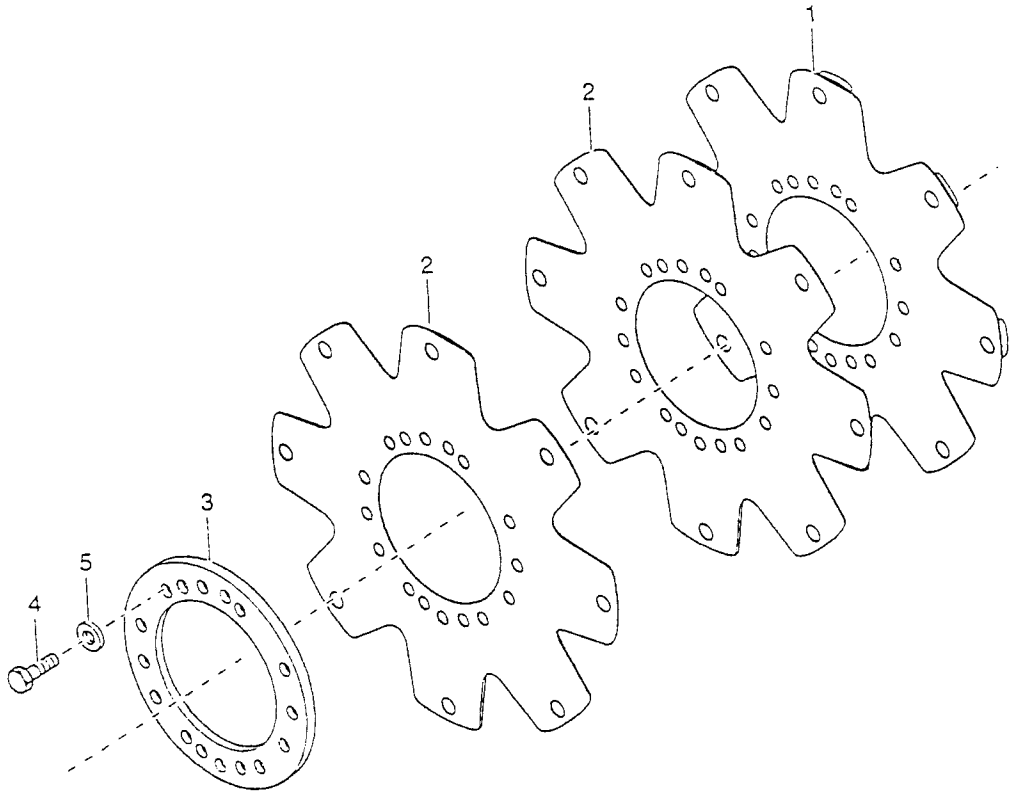
11	PAGE NUMBER	OUTPUT SHAFT GROUP T12000 SERIES TRANSMISSION / TH528		DRAWING NUMBER	P1-1254

ITEM	NUMBER	DESCRIPTION	REQD
1	7-126-500	OUTPUT SHAFT	1
2	7-126-307	OUTPUT SHAFT BEARING	2
3	7-126-368	OIL SEAL SLEEVE	2
4	7-126-366	O-RING	2
5	7-126-367	OUTPUT SHAFT OIL SEAL	2
6	7-126-365	SNAP RING	4
7	7-126-369	SNAP RING	2
8	7-126-364	OUTPUT FLANGE & PLUG ASSY (INCL. ITEM 9)	1
9	7-126-363	FLANGE PLUG	1
10	7-126-426	OUTPUT SHAFT GEAR (SEE GEAR GROUP)	1



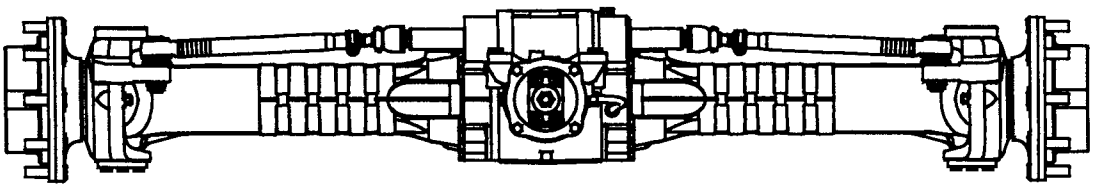
12	PAGE NUMBER	ELECTRIC CONTROL GROUP T12000 SERIES TRANSMISSION / TH528	DRAWING NUMBER	P1-1255

ITEM	NUMBER	DESCRIPTION	REQD
1	7-126-382	SOLENOID ASSEMBLY (INCLUDES ITEMS 2-10)	4
2	7-126-380	4-WAY VALVE CARTRIDGE (INCL. ITEMS 3-6)	4
3	7-126-376	O-RING	4
4	7-126-377	O-RING	4
5	7-126-378	O-RING	4
6	7-126-379	O-RING	4
7	7-126-374	O-RING	4
8	7-126-375	SOLENOID COIL (12V)	4
9	7-126-374	O-RING	4
10	7-126-373	NUT	4
11	7-126-501	PROTECTIVE COVER	1
12	7-126-502	SCREW	2
13	7-126-503	LOCKWASHER	2
14	7-126-504	MODULATOR VALVE HOUSING	2
15	7-126-371	O-RING	2
16	7-126-505	INNER SPRING	2
17	7-126-506	MIDDLE SPRING	2
18	7-126-507	OUTER SPRING	2
19	7-126-508	MODULATION VALVE SLEEVE	2
20	7-126-372	O-RING	2
21	7-126-63	PIN	2
22	7-126-509	ACCUMULATOR SPOOL	2
23	7-126-510	REGULATOR SPOOL	2
24	7-126-511	MODULATOR VALVE SPOOL	2
25	7-126-512	SPRING RETAINER	2
26	7-126-513	SPRING SPACER	2
27	7-126-514	UPPER PIN	2
28	7-126-515	LOWER PIN	2
29	7-126-381	SOLENOID BORE PLUG	1
30	7-126-379	O-RING	1
31	7-126-378	O-RING	1
32	7-126-376	O-RING	1



ITEM	NUMBER	DESCRIPTION	REQD
1	7-126-383	DRIVE PLATE ASSY (INCL. IN ITEM 6-N.S.S.)	1
2	7-126-383	DRIVE PLATE (INCL. IN ITEM 6-N.S.S.)	2
3	7-126-60	DRIVE PLATE BACKING RING	1
4	7-126-516	SCREW	6
5	7-126-54	LOCKWASHER	6
6	7-126-383	DRIVE PLATE KIT (INCLUDES ITEMS 1-5)	1

FRONT AXLE
PARTS BOOK
TH528 & TH528C



DATE: 6-25-00

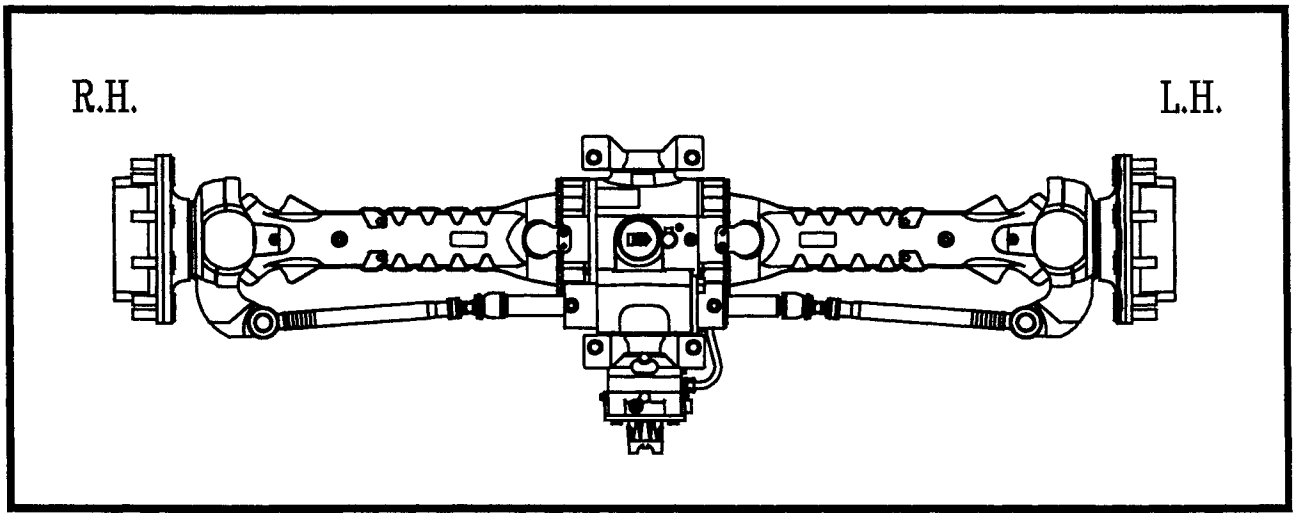
SPICER CLARK-HURTH 212/197 AXLE

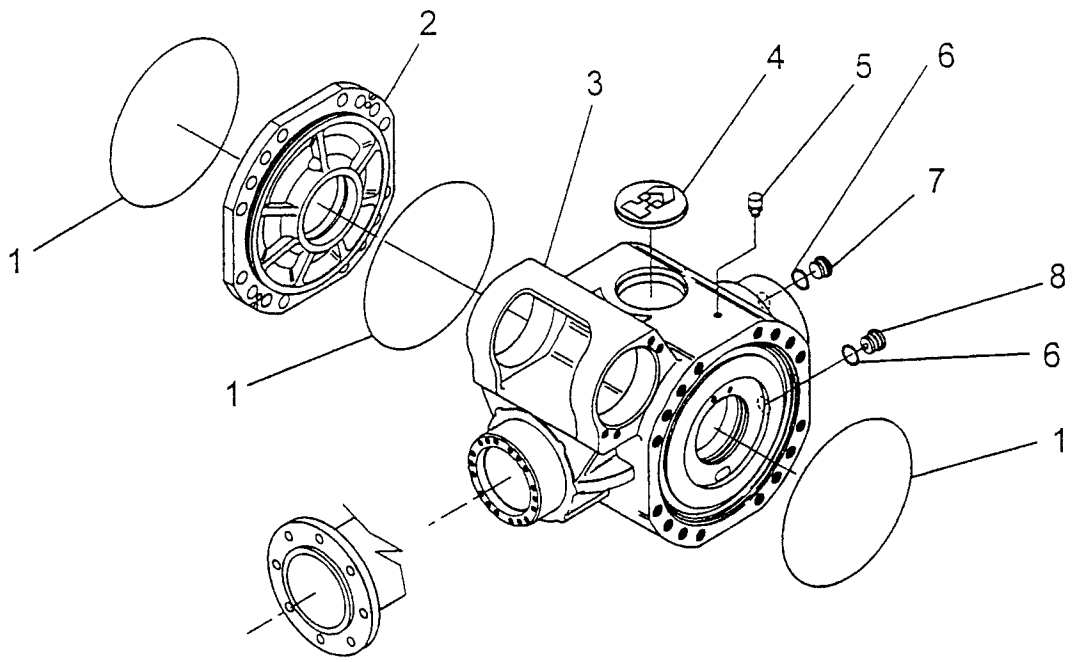
7-229-696 STEERING CYLINDER

TEREX HANDLERS
455 N. Superior Ave., Baraga, MI 49908-0248
PH: (906) 353-6675; FAX: (906) 353-7543
INTERNET: http://www.sqshooter.com

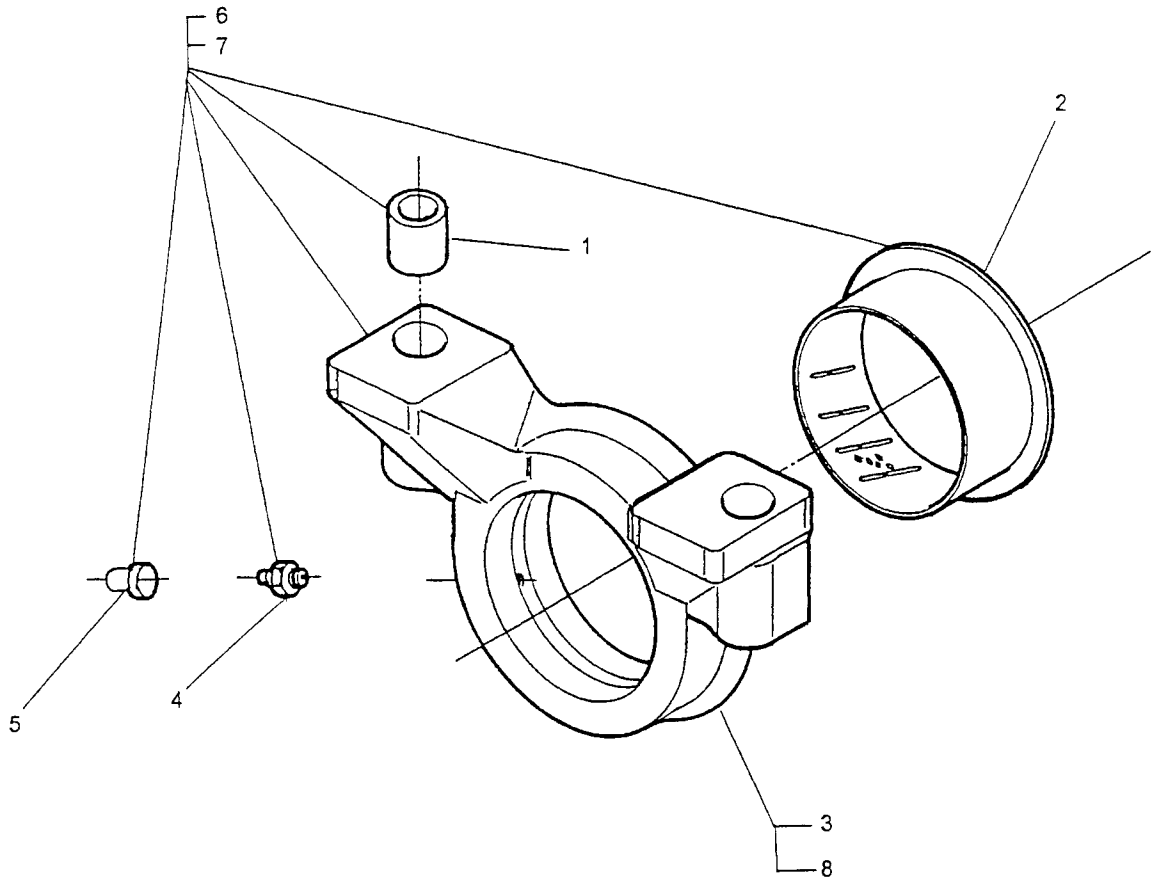
AXLE PARTS ORDERING GUIDE

WHEN ORDERING FROM THIS BOOK USE THE
FIGURE BELOW AS A REFERENCE IN DETERMINING
LEFT OR RIGHT HAND SIDE

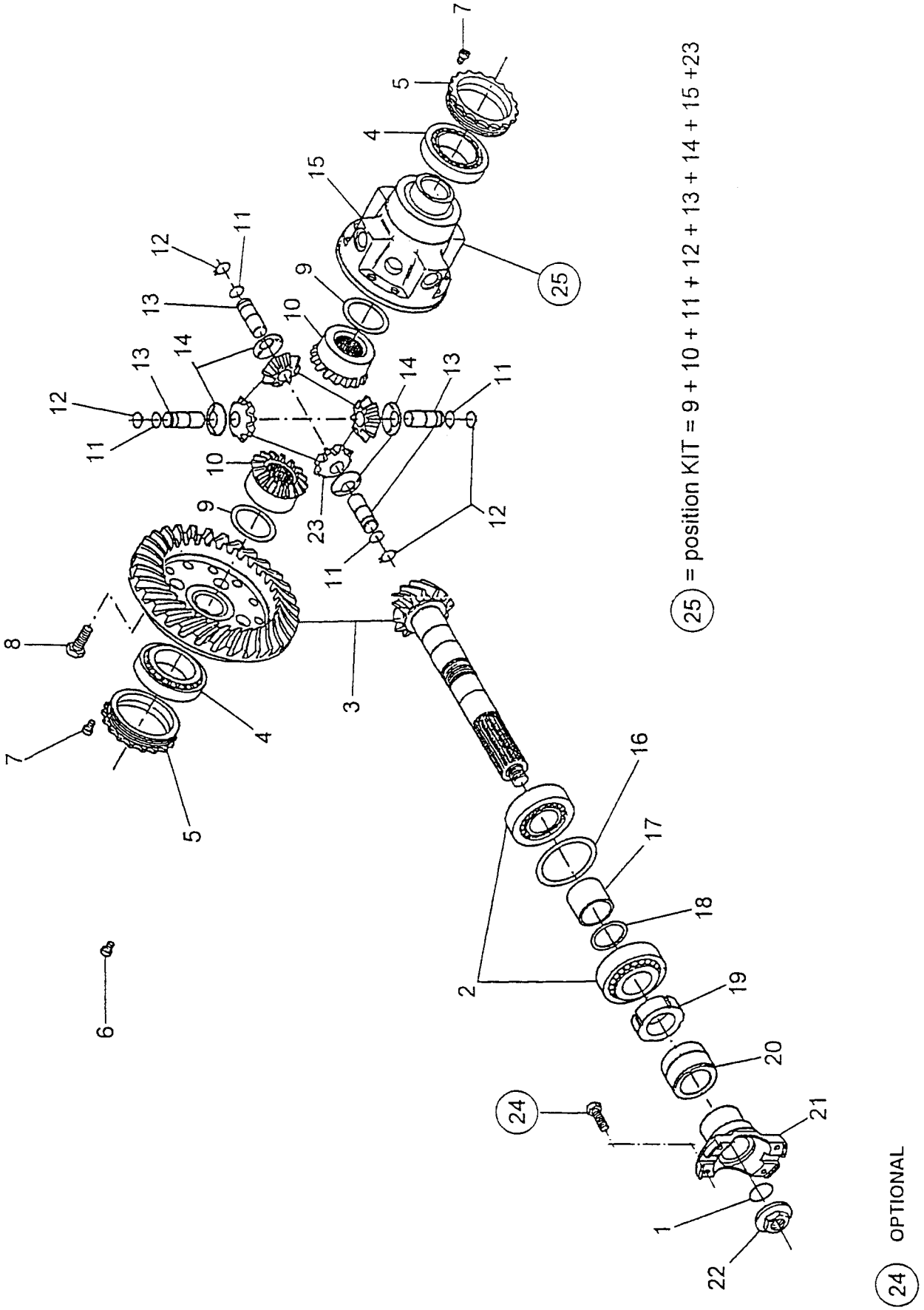




ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-520	O-RING	3
2	7-229-521	INTERMEDIATE COVER	1
3	7-229-626	HOUSING	1
4	7-229-523	COVER	1
5	7-229-524	VENT	1
6	7-229-525	SEAL WASHER	2
7	7-229-526	PLUG	1
8	7-229-527	MAGNETIC PLUG	1



ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-620	REDUCTION BUSHING	4
2	7-229-621	THRUST BUSHING	2
3	7-229-697	FRONT SUPPORT	1
4	7-229-572	GREASE FITTING	2
5	7-229-571	PLUG	2
6	7-229-699	FRONT SUPPORT ASSEMBLY	REF
7	7-229-700	BACK SUPPORT ASSEMBLY	REF
8	7-229-698	BACK SUPPORT	1



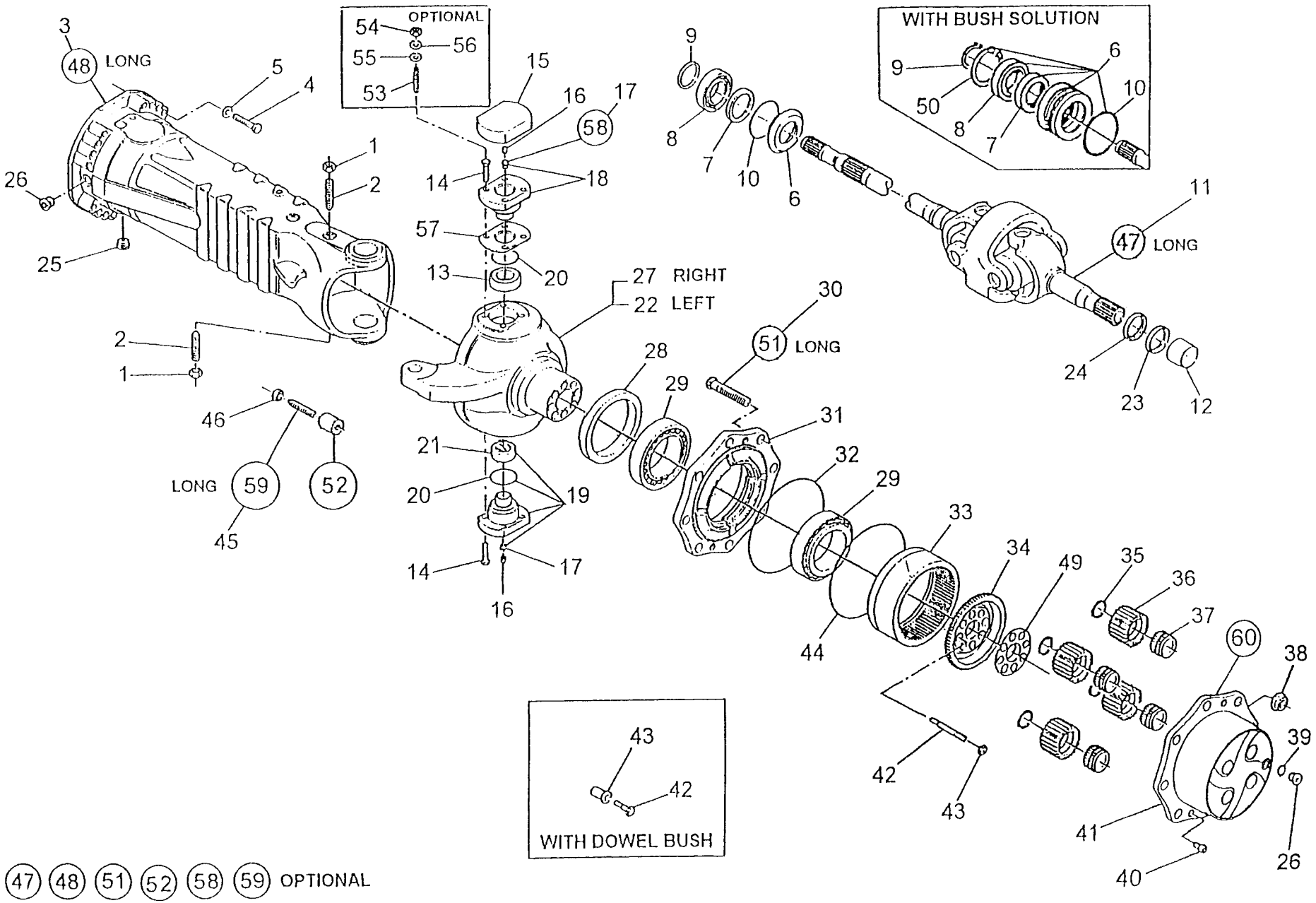
3	PAGE NUMBER	DIFFERENTIAL ASSEMBLY TH528 & TH528C FRONT AXLE	DRAWING NUMBER	P1-1310

ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-528	O-RING	1
2	7-229-547	TAPER ROLLER BEARING	2
3	7-229-701	BEVEL GEAR SET	1
4	7-229-535	TAPER ROLLER BEARINGS	2
5	7-229-536	RING NUT	2
6	7-229-537	CYLINDER BOLT	4
7	7-229-538	CYLINDER BOLT	2
8	7-229-691	BOLT	12
9	7-229-540	FRICTION WASHER	2
10	7-229-541	DIFFERENTIAL SIDE GEAR	2
11	7-229-543	CIRCLIP	4
12	7-229-555	CIRCLIP	4
13	7-229-542	PIN	4
14	7-229-544	FRICTION WASHER	4
15	7-229-546	DIFFERENTIAL CARRIER	4
16		SHIM / SEE ITEMS 26-29 BELOW	
17	7-229-549	SPACER	1
18		SHIM / SEE ITEMS 30-34 BELOW	
19	7-229-550	RING NUT	1
20			
21	7-229-553	FLANGE	1
22	7-229-554	NUT	1
23	7-229-545	DIFFERENTIAL PINION	1
24			
25	7-229-556	DIFFERENTIAL ASSY (INCL. ITEMS 9-15,23)	1
26	7-229-548	SHIM / 0.20mm	AR
27	7-229-557	SHIM / 0.30mm	AR
28	7-229-558	SHIM / 0.15mm	AR
29	7-229-559	SHIM / 0.10mm	AR
30	7-229-529	SHIM / 0.10mm	AR
31	7-229-530	SHIM / 0.15mm	AR
32	7-229-531	SHIM / 0.20mm	AR
33	7-229-532	SHIM / 0.40mm	AR
34	7-229-533	SHIM / 0.50mm	AR

PAGE NUMBER 4

STEERING AXLE ASSEMBLY
TH528 & TH528C FRONT & REAR AXLE

DRAWING NUMBER P1-1312

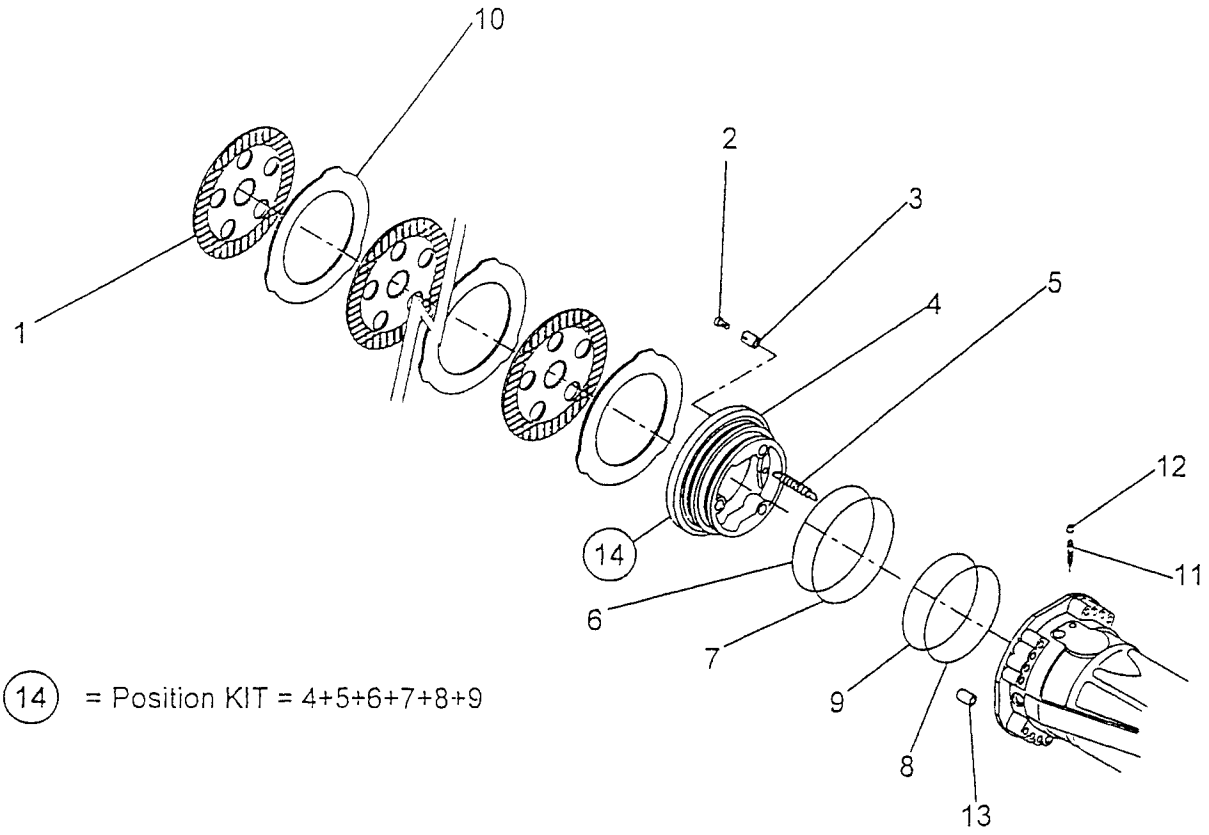


Position Kit N° (60) = 33+34+35+36+37+41+44

ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-623	NUT	2
2	7-229-624	STEERING ADJUST BOLT	2
3	7-229-703	AXLE CASE	2
4	7-229-704	BOLT	32
5	7-229-561	WASHER	32
6	7-229-562	REDUCTION BUSING	2
7	7-229-563	SEAL	2
8	7-229-564	BALL BEARING	2
9	7-229-565	CIRCLIP	2
10	7-229-566	O-RING	2
11	7-229-705	UNIVERSAL JOINT	2
12	7-229-568	THRUST BUSHING	2
13	7-229-569	OUTER RACE	2
14	7-229-539	BOLT	20
15	7-229-570	COVER	2
16	7-229-571	PLUG	4
17	7-229-572	GREASE FITTING	2
18	7-229-573	PIVOT PIN	2
19	7-229-574	PIVOT PIN	2
20	7-229-575	SEAL	2
21	7-229-576	ARTICULATION	2
22	7-229-706	STEERING CASE	1
23	7-229-578	SEAL	2
24	7-229-579	DUST EXCLUDER	2
25	7-229-580	MAGNET PLUG	2
26	7-229-526	PLUG	3
27	7-229-707	STEERING CASE	1
28	7-229-582	SEAL	2
29	7-229-583	BEARING	20
30	7-229-692	WHEEL STUD	20
31	7-229-680	WHEEL HUB	2
32	7-229-586	O-RING	2
33	7-229-587	RING GEAR	2
34	7-229-588	RING GEAR SUPPORT	2
35	7-229-589	CIRCLIP	8
36	7-229-590	PLANET GEAR	8
37	7-229-591	BEARING	8
38	7-229-592	WHEEL NUT	20
39	7-229-525	SEAL WASHER	5
40	7-229-681	CYLINDER BOLT	4
41	7-229-682	PLANET GEAR CARRIER	2
42	7-229-595	STUD	16
43	7-229-596	NUT	16
44	7-229-597	CIRCLIP	2
45	7-229-708	ADJUSTING BOLT	2
46	7-229-599	NUT	2
47			
48			
49	7-229-600	LOCKING PLATE	2
50	7-229-601	CIRCLIP	2

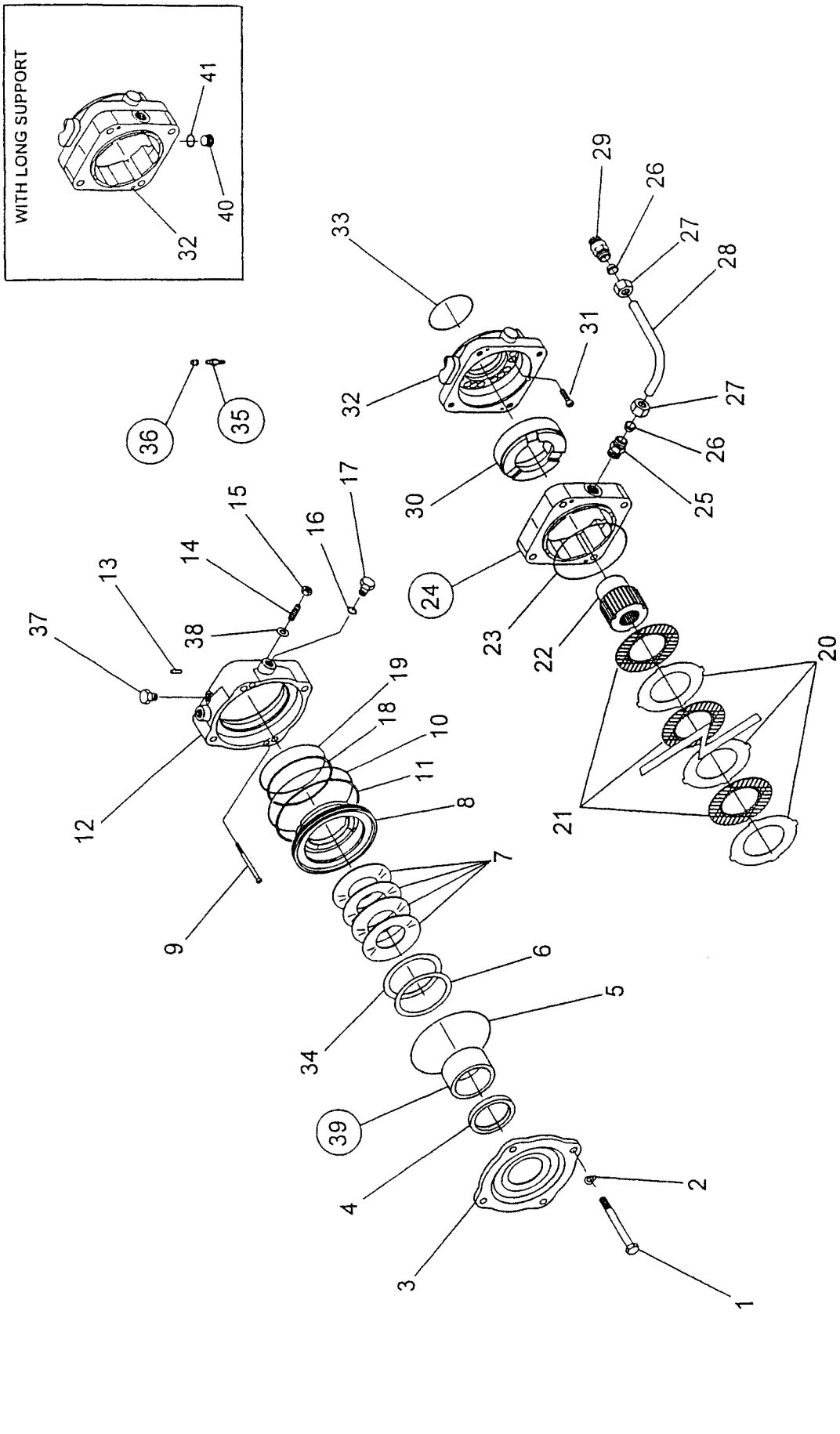
ITEM	NUMBER	DESCRIPTION	REQD
51			
52			
53			
54			
55			
56			
57		SHIM / SEE ITEMS 61-63 BELOW	
58			
59			
60	7-229-683	PLANET GEAR CARRIER ASSY (33-37, 41, 44)	REF
61	7-229-602	SHIM / 0.15mm	AR
62	7-229-603	SHIM / 0.20mm	AR
63	7-229-604	SHIM / 0.50mm	AR

NOTES



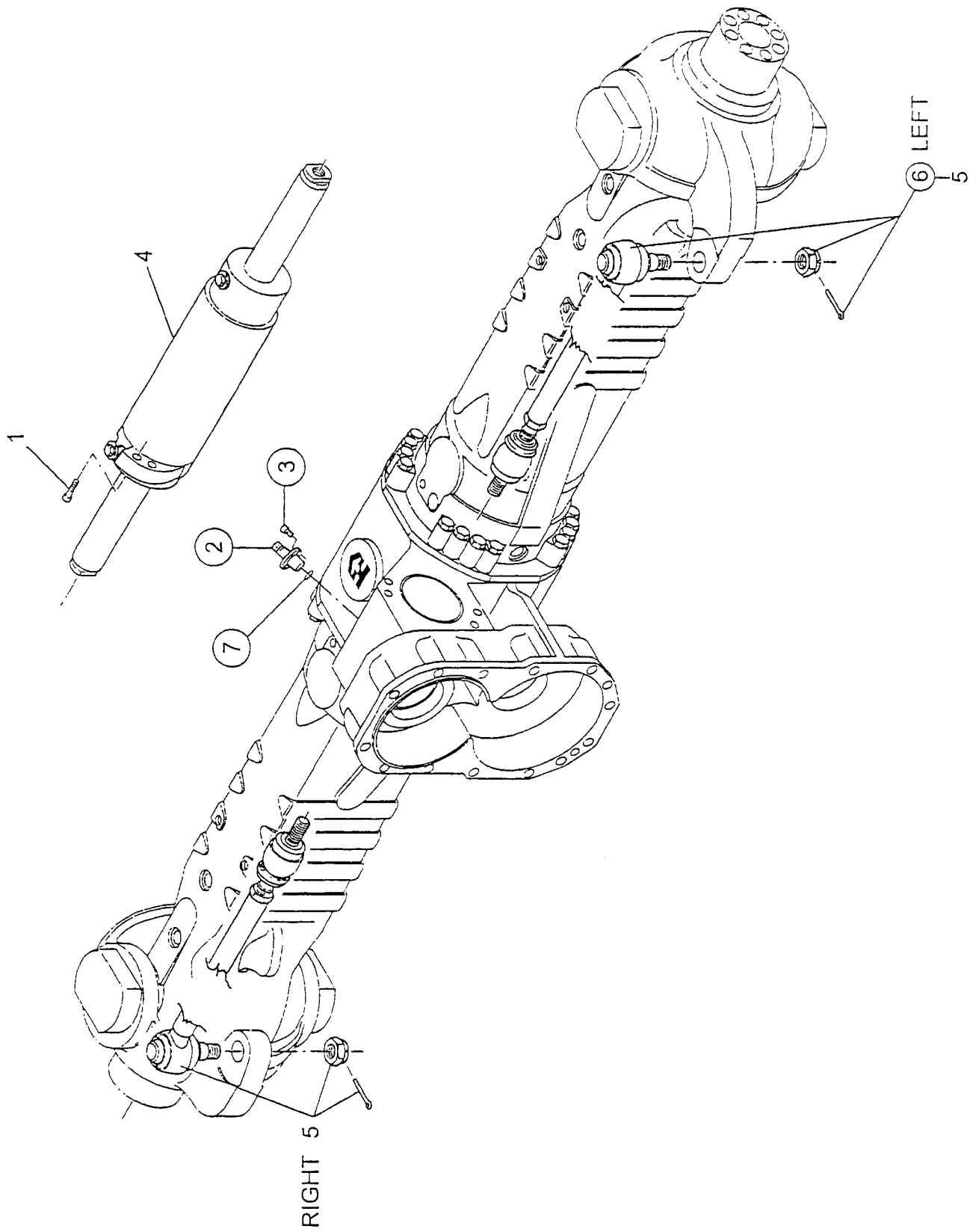
(14) = Position KIT = 4+5+6+7+8+9

ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-605	BRAKE DISC	6
2	7-229-709	ADJUSTING BOLT	6
3	7-229-607	SPRING	6
4	7-229-710	PISTON	2
5	7-229-609	SPRING	6
6	7-229-610	BACK-UP RING	2
7	7-229-611	O-RING	2
8	7-229-612	BACK-UP RING	2
9	7-229-613	O-RING	2
10	7-229-614	INTERMEDIATE BRAKE DISC	8
11	7-229-615	BLEEDING BOLT	2
12	7-229-571	PLUG	2
13	7-229-616	DOWEL	2
14	7-229-711	PISTON	2



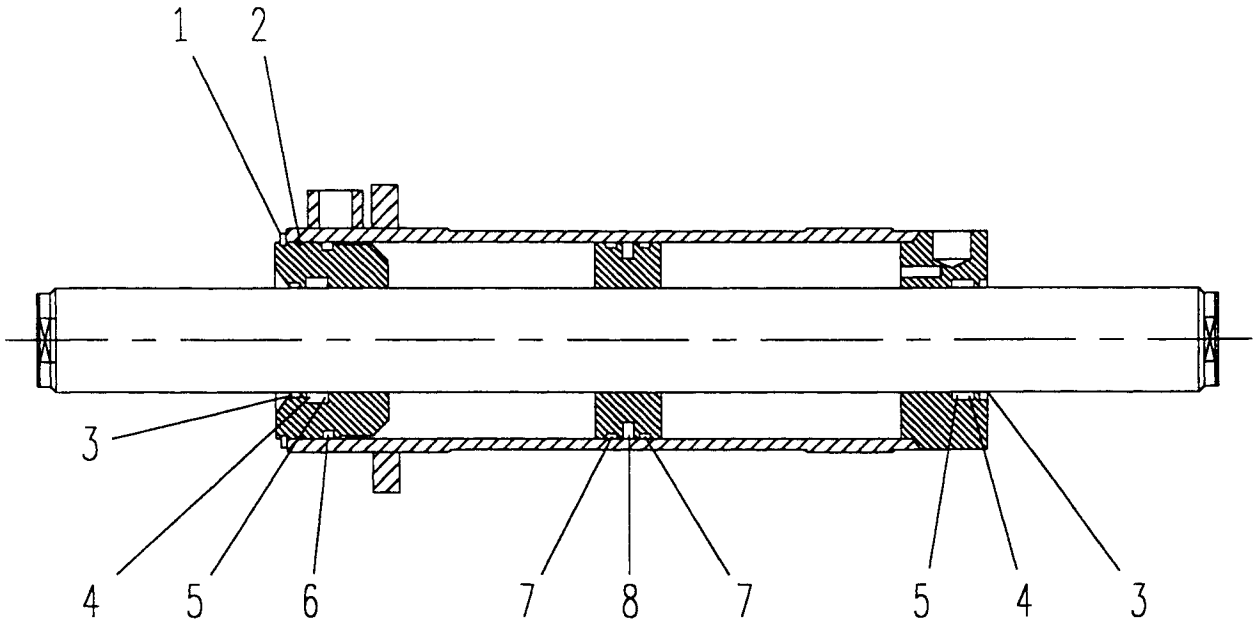
6	PAGE NUMBER	PARKING BRAKE ASSEMBLY TH528 & TH528C FRONT AXLE	DRAWING NUMBER	P1-1314

ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-684	HEXAGON BOLT	4
2	7-229-630	SPRING WASHER	4
3	7-229-631	COVER	1
4	7-229-632	SEAL	1
5	7-229-633	O-RING	1
6	7-229-634	FRICTION WASHER	1
7	7-229-635	SPRING	4
8	7-229-636	PISTON	1
9	7-229-637	BOLT	2
10	7-229-638	BACK-UP RING	1
11	7-229-639	O-RING	1
12	7-229-640	COVER	1
13	7-229-641	DOWEL	1
14	7-229-642	BOLT	2
15	7-229-643	NUT	2
16	7-229-644	SEAL WASHER	3
17	7-229-645	BOLT	3
18	7-229-646	O-RING	1
19	7-229-647	BACK-UP RING	1
20	7-229-648	INTERMEDIATE BRAKE DISC	12
21	7-229-649	BRAKE DISC	11
22	7-229-685	SELECTOR	1
23	7-229-651	RING	1
24			
25	7-229-653	ADAPTOR	1
26	7-229-654	ADAPTOR	2
27	7-229-655	ADAPTOR	2
28	7-229-686	TUBE	1
29	7-229-657	ADAPTOR	1
30	7-229-687	SPACER	1
31	7-229-688	CYLINDER BOLT	18
32	7-229-689	COVER	1
33	7-229-661	O-RING	1
34		SHIM / SEE ITEMS 42-45 BELOW	
35			
36			
37	7-229-666	PLUG	1
38	7-229-667	WASHER	2
39	7-229-668	SPACER	1
40	7-229-690	PLUG	1
41	7-229-525	SEAL WASHER	1
42	7-229-662	SHIM / 0.10mm	AR
43	7-229-663	SHIM / 0.20mm	AR
44	7-229-664	SHIM / 0.50mm	AR
45	7-229-665	SHIM / 0.15mm	AR



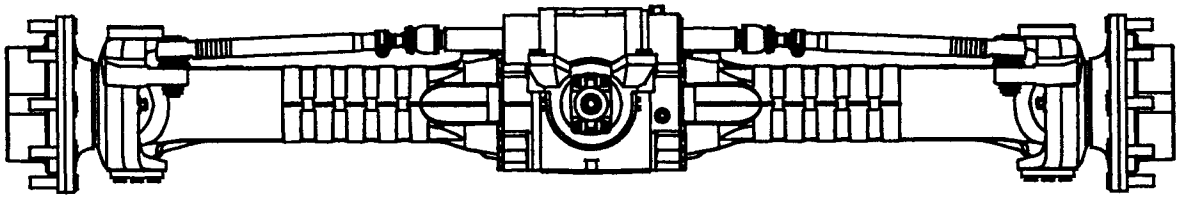
7	PAGE NUMBER	STEERING ARMS ASSEMBLY TH528 & TH528C FRONT & REAR AXLE	DRAWING NUMBER	P1-1315

ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-618	CYLINDER BOLT	4
2			
3			
4	7-229-696	STEERING CYLINDER	1
5	7-229-712	ARTICULATED TIE ROD / LH & RH	2



ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-511	SNAP RING	1
2	7-229-512	STOP RING	2
3	7-229-513	WIPER	2
4	7-229-514	SEAL	2
5	7-229-515	BACK-UP RING	2
6	7-229-516	WEAR RING	1
7	7-229-517	PISTON WEAR RING	2
8	7-229-518	PISTON SEAL	1
9	7-900-88	SEAL KIT (ITEMS 1-8)	1

REAR AXLE
PARTS BOOK
TH528 & TH528C



DATE: 6-26-00

SPICER CLARK-HURTH 212/198 AXLE

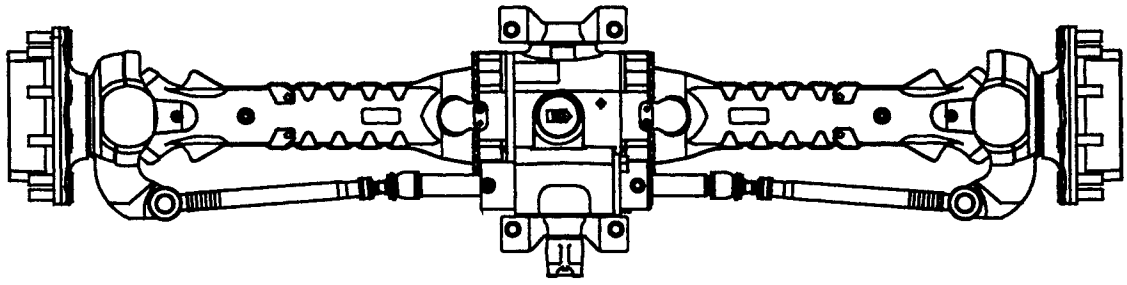
7-229-696 STEERING CYLINDER

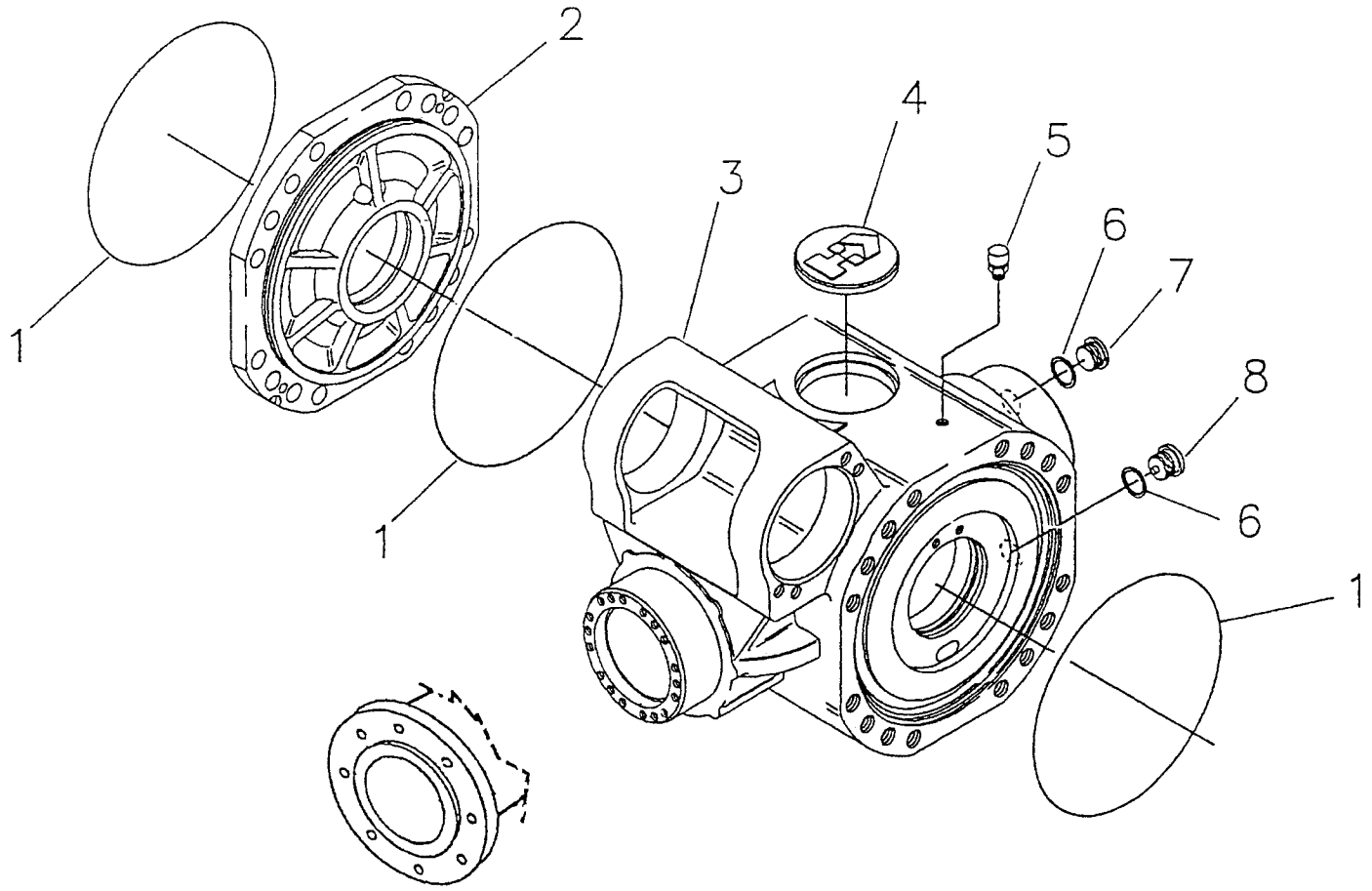
TEREX HANDLERS
455 N. Superior Ave., Baraga, MI 49908-0248
PH: (906) 353-6675; FAX: (906) 353-7543
INTERNET: http://www.sqshooter.com

AXLE PARTS ORDERING GUIDE

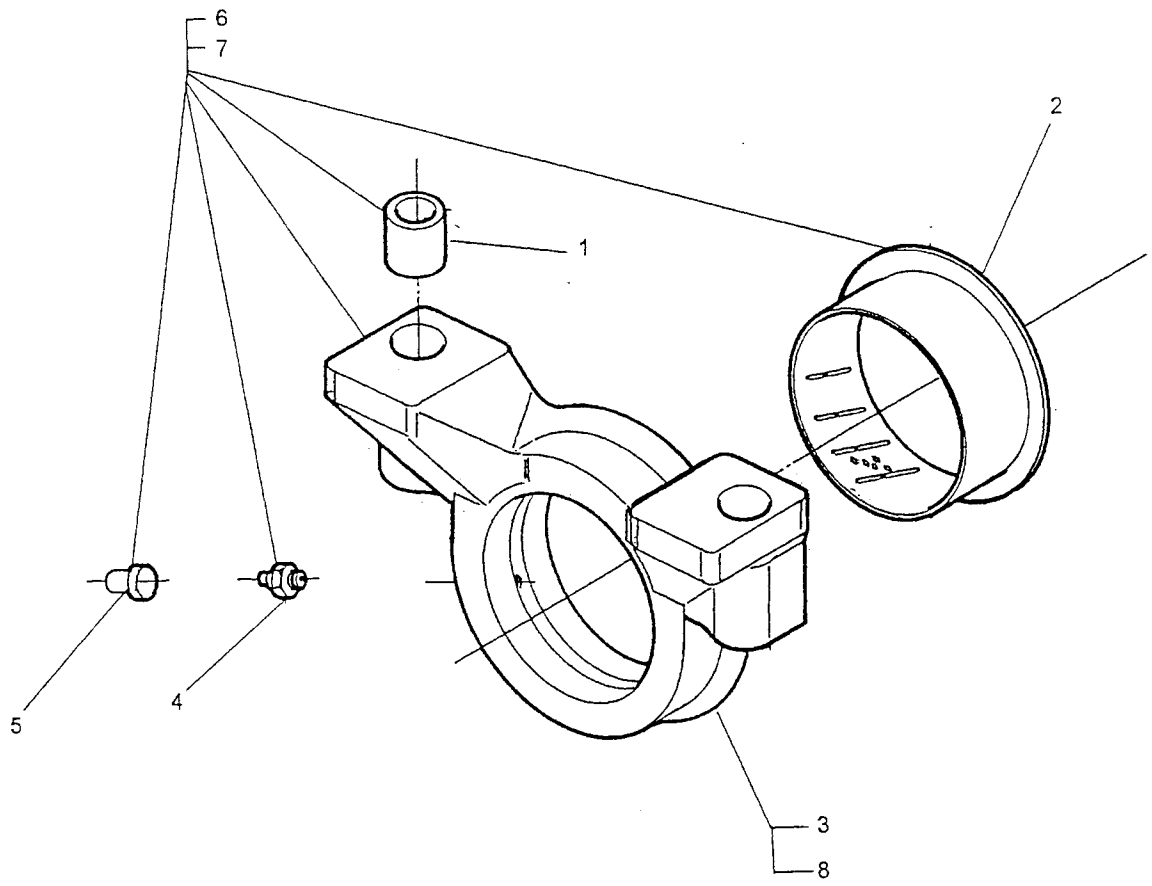
WHEN ORDERING FROM THIS BOOK USE THE
FIGURE BELOW AS A REFERENCE IN DETERMINING
LEFT OR RIGHT HAND SIDE

R.H. L.H.





ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-520	O-RING	3
2	7-229-521	INTERMEDIATE COVER	1
3	7-229-522	HOUSING	1
4	7-229-523	PLUG	1
5	7-229-524	VENT	1
6	7-229-525	SEAL WASHER	2
7	7-229-526	PLUG	1
8	7-229-527	MAGNETIC PLUG	1

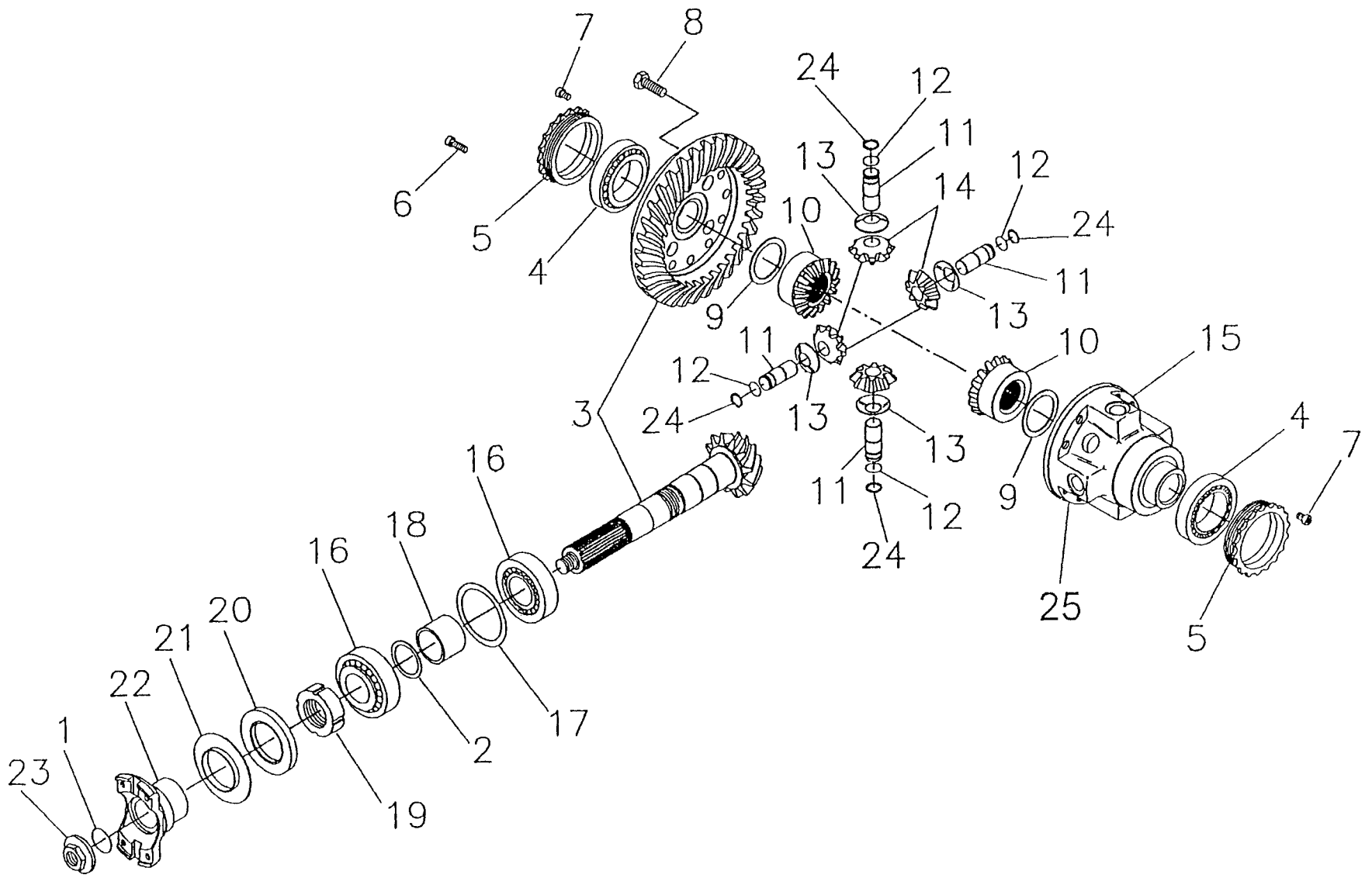


ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-620	REDUCTION BUSHING	4
2	7-229-621	THRUST BUSHING	2
3	7-229-697	FRONT SUPPORT	1
4	7-229-572	GREASE FITTING	2
5	7-229-571	PLUG	2
6	7-229-699	FRONT SUPPORT ASSEMBLY	REF
7	7-229-700	BACK SUPPORT ASSEMBLY	REF
8	7-229-698	BACK SUPPORT	1

PAGE NUMBER 3

DIFFERENTIAL ASSEMBLY
TH528 & TH528C REAR AXLE

DRAWING NUMBER P1-1311



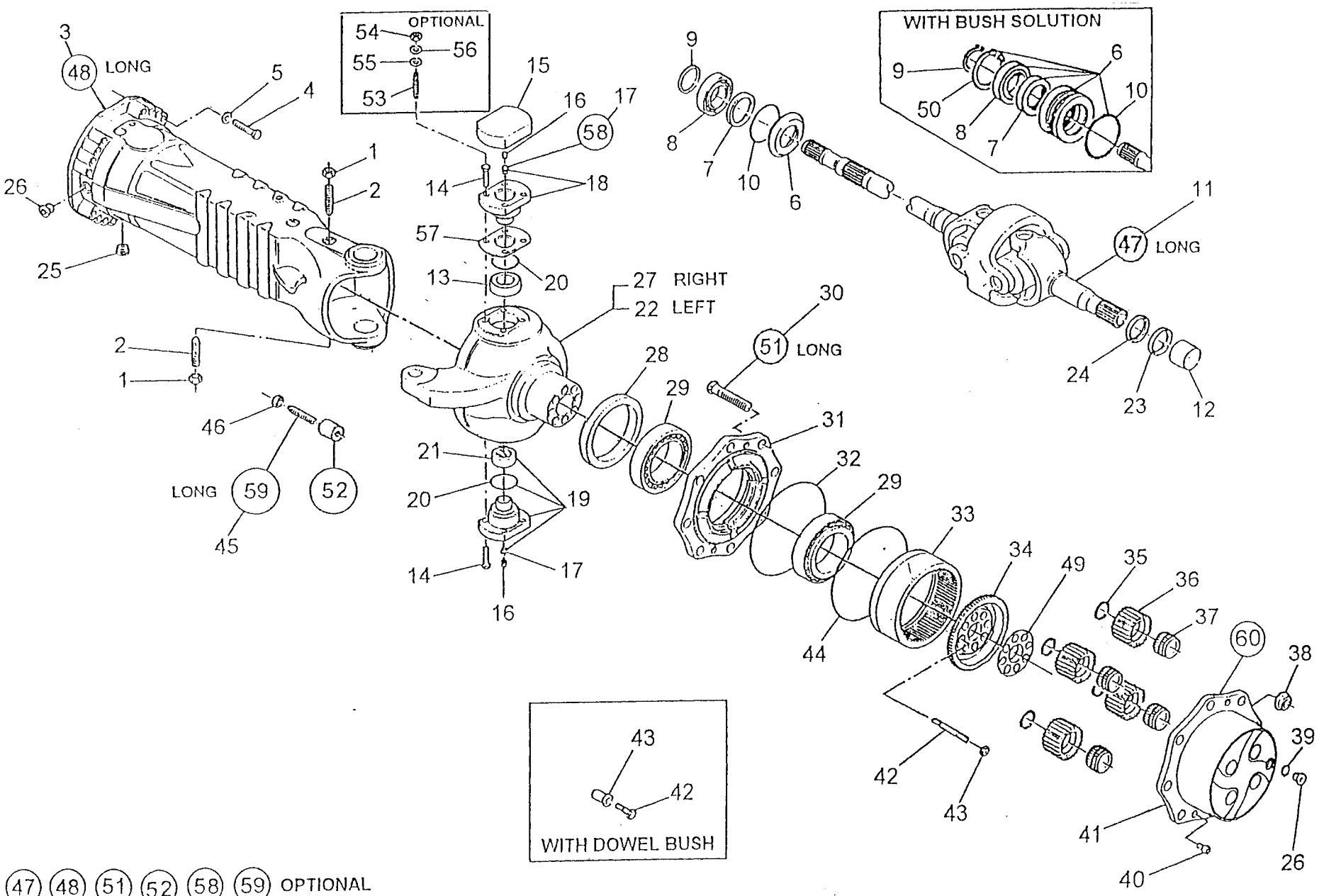
Position Kit N° 25 = 9+10+11+12+13+14+15+24

ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-528	O-RING	1
2		SHIM / SEE ITEMS 26-30 BELOW	
3	7-229-702	BEVEL GEAR SET	1
4	7-229-535	TAPER ROLLER BEARINGS	2
5	7-229-536	RING NUT	2
6	7-229-537	CYLINDER BOLT	4
7	7-229-538	CYLINDER BOLT	2
8	7-229-691	BOLT	12
9	7-229-540	FRICTION WASHER	2
10	7-229-541	DIFFERENTIAL SIDE GEAR	2
11	7-229-542	PIN	4
12	7-229-543	CIRCLIP	4
13	7-229-544	FRICTION WASHER	4
14	7-229-545	DIFFERENTIAL PINION	4
15	7-229-546	DIFFERENTIAL CARRIER	1
16	7-229-547	TAPER ROLLER BEARING	2
17		SHIM / SEE ITEMS 31-34 BELOW	
18	7-229-549	SPACER	1
19	7-229-550	RING NUT	1
20	7-229-551	SEAL	1
21	7-229-552	COVERPLATE	1
22	7-229-553	FLANGE	1
23	7-229-554	NUT	1
24	7-229-555	CIRCLIP	4
25	7-229-556	DIFFERENTIAL (ITEMS 9-15,24)	1
26	7-229-529	SHIM / 0.10mm	AR
27	7-229-530	SHIM / 0.15mm	AR
28	7-229-531	SHIM / 0.20mm	AR
29	7-229-532	SHIM / 0.40mm	AR
30	7-229-533	SHIM / 0.50mm	AR
31	7-229-548	SHIM / 0.20mm	AR
32	7-229-557	SHIM / 0.30mm	AR
33	7-229-558	SHIM / 0.15mm	AR
34	7-229-559	SHIM / 0.10mm	AR

PAGE NUMBER 4

STEERING AXLE ASSEMBLY
TH528 & TH528C FRONT & REAR AXLE

DRAWING NUMBER P1-1312



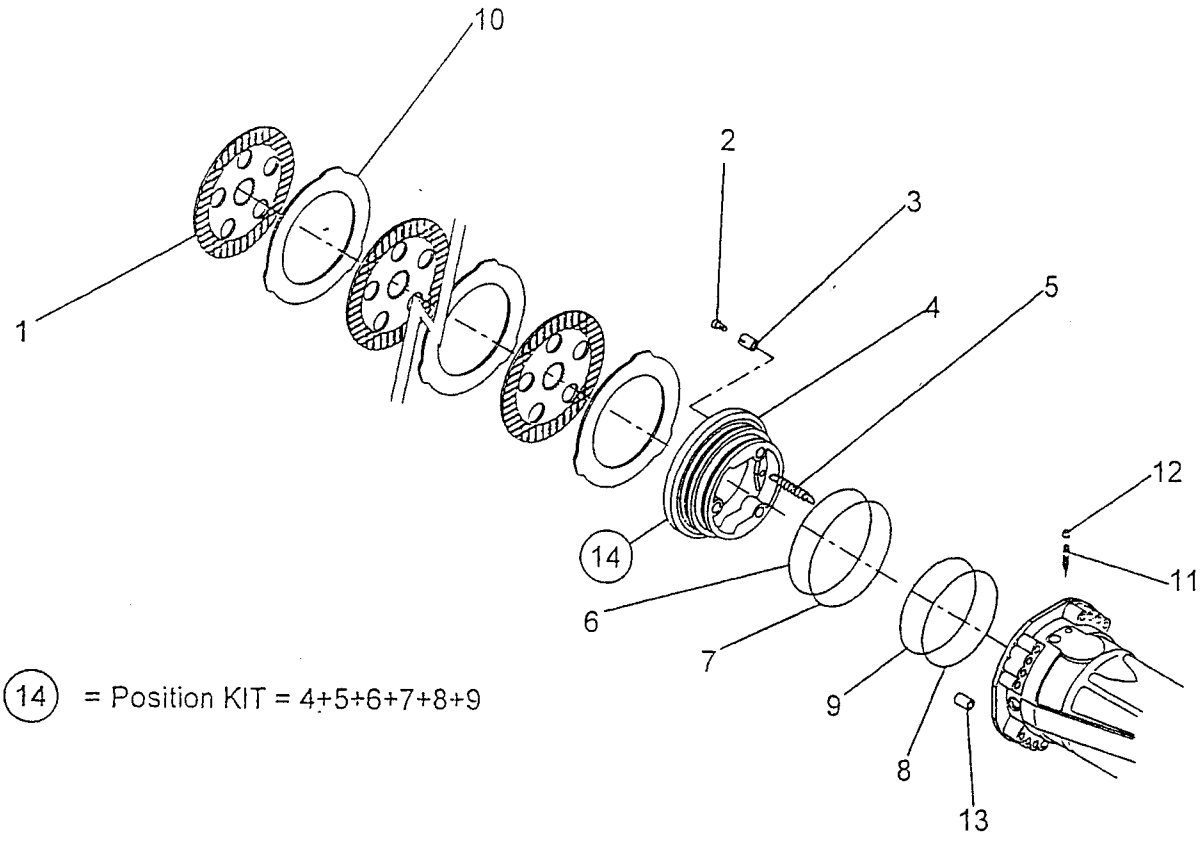
(47) (48) (51) (52) (58) (59) OPTIONAL

Position Kit N° (60) = 33+34+35+36+37+41+44

ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-623	NUT	2
2	7-229-624	STEERING ADJUST BOLT	2
3	7-229-703	AXLE CASE	2
4	7-229-704	BOLT	32
5	7-229-561	WASHER	32
6	7-229-562	REDUCTION BUSING	2
7	7-229-563	SEAL	2
8	7-229-564	BALL BEARING	2
9	7-229-565	CIRCLIP	2
10	7-229-566	O-RING	2
11	7-229-705	UNIVERSAL JOINT	2
12	7-229-568	THRUST BUSHING	2
13	7-229-569	OUTER RACE	2
14	7-229-539	BOLT	20
15	7-229-570	COVER	2
16	7-229-571	PLUG	4
17	7-229-572	GREASE FITTING	2
18	7-229-573	PIVOT PIN	2
19	7-229-574	PIVOT PIN	2
20	7-229-575	SEAL	2
21	7-229-576	ARTICULATION	2
22	7-229-706	STEERING CASE	1
23	7-229-578	SEAL	2
24	7-229-579	DUST EXCLUDER	2
25	7-229-580	MAGNET PLUG	2
26	7-229-526	PLUG	3
27	7-229-707	STEERING CASE	1
28	7-229-582	SEAL	2
29	7-229-583	BEARING	20
30	7-229-692	WHEEL STUD	20
31	7-229-680	WHEEL HUB	2
32	7-229-586	O-RING	2
33	7-229-587	RING GEAR	2
34	7-229-588	RING GEAR SUPPORT	2
35	7-229-589	CIRCLIP	8
36	7-229-590	PLANET GEAR	8
37	7-229-591	BEARING	8
38	7-229-592	WHEEL NUT	20
39	7-229-525	SEAL WASHER	5
40	7-229-681	CYLINDER BOLT	4
41	7-229-682	PLANET GEAR CARRIER	2
42	7-229-595	STUD	16
43	7-229-596	NUT	16
44	7-229-597	CIRCLIP	2
45	7-229-708	ADJUSTING BOLT	2
46	7-229-599	NUT	2
47			
48			
49	7-229-600	LOCKING PLATE	2
50	7-229-601	CIRCLIP	2

ITEM	NUMBER	DESCRIPTION	REQD
51			
52			
53			
54			
55			
56			
57		SHIM / SEE ITEMS 61-63 BELOW	
58			
59			
60	7-229-683	PLANET GEAR CARRIER ASSY (33-37, 41, 44)	REF
61	7-229-602	SHIM / 0.15mm	AR
62	7-229-603	SHIM / 0.20mm	AR
63	7-229-604	SHIM / 0.50mm	AR

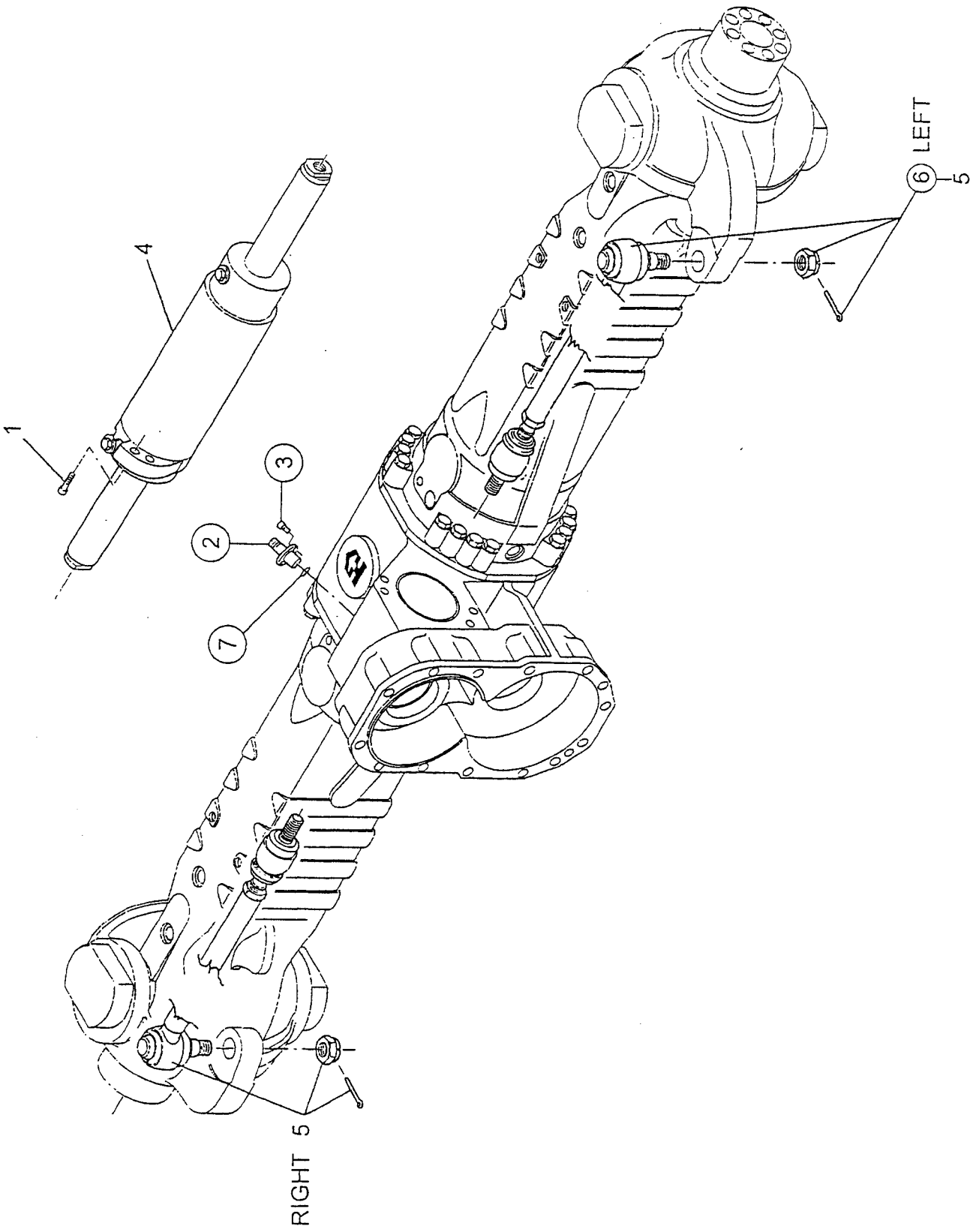
NOTES



(14) = Position KIT = 4+5+6+7+8+9

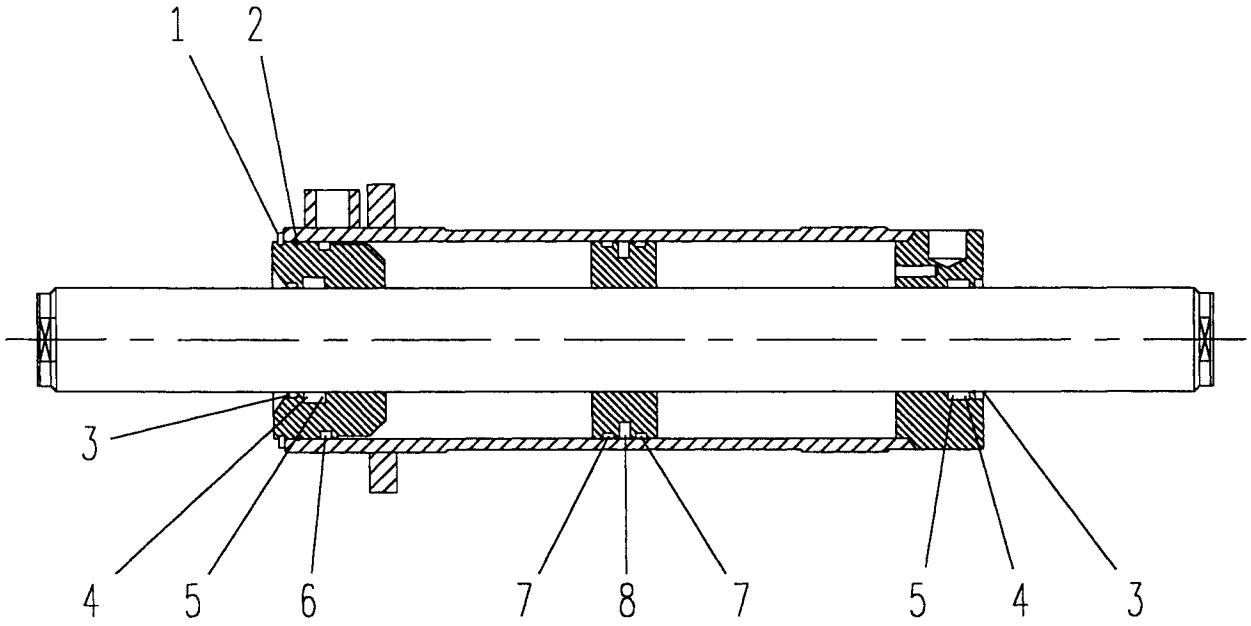
5 PAGE NUMBER	DISC BRAKE ASSEMBLY TH528 & TH528C FRONT & REAR AXLE	DRAWING NUMBER	P1-1313

ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-605	BRAKE DISC	6
2	7-229-709	ADJUSTING BOLT	6
3	7-229-607	SPRING	6
4	7-229-710	PISTON	2
5	7-229-609	SPRING	6
6	7-229-610	BACK-UP RING	2
7	7-229-611	O-RING	2
8	7-229-612	BACK-UP RING	2
9	7-229-613	O-RING	2
10	7-229-614	INTERMEDIATE BRAKE DISC	8
11	7-229-615	BLEEDING BOLT	2
12	7-229-571	PLUG	2
13	7-229-616	DOWEL	2
14	7-229-711	PISTON	2



6	PAGE NUMBER	STEERING ARMS ASSEMBLY TH528 & TH528C FRONT & REAR AXLE	DRAWING NUMBER	P1-1315

ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-618	CYLINDER BOLT	4
2			
3			
4	7-229-696	STEERING CYLINDER	1
5	7-229-712	ARTICULATED TIE ROD / LH & RH	2



ITEM	NUMBER	DESCRIPTION	REQD
1	7-229-511	SNAP RING	1
2	7-229-512	STOP RING	2
3	7-229-513	WIPER	2
4	7-229-514	SEAL	2
5	7-229-515	BACK-UP RING	2
6	7-229-516	WEAR RING	1
7	7-229-517	PISTON WEAR RING	2
8	7-229-518	PISTON SEAL	1
9	7-900-88	SEAL KIT (ITEMS 1-8)	1