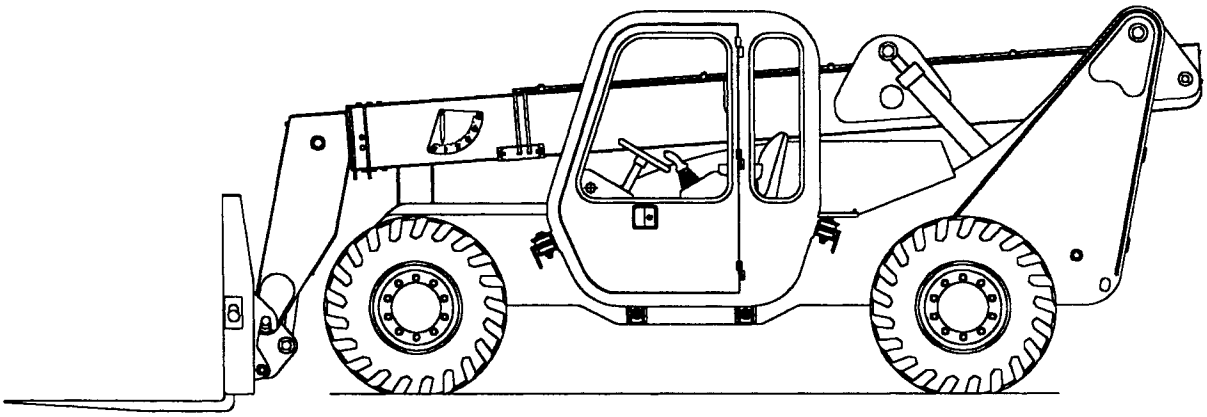
235749

# PARTS BOOK
# TH528



DATE: 10-09-98

CUMMINS B3.9-C-80 ENGINE

CLARK T12000 SERIES TRANSMISSION

SPICER PS-6052 AXLES

7-316 HYDRAULIC CYLINDERS

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

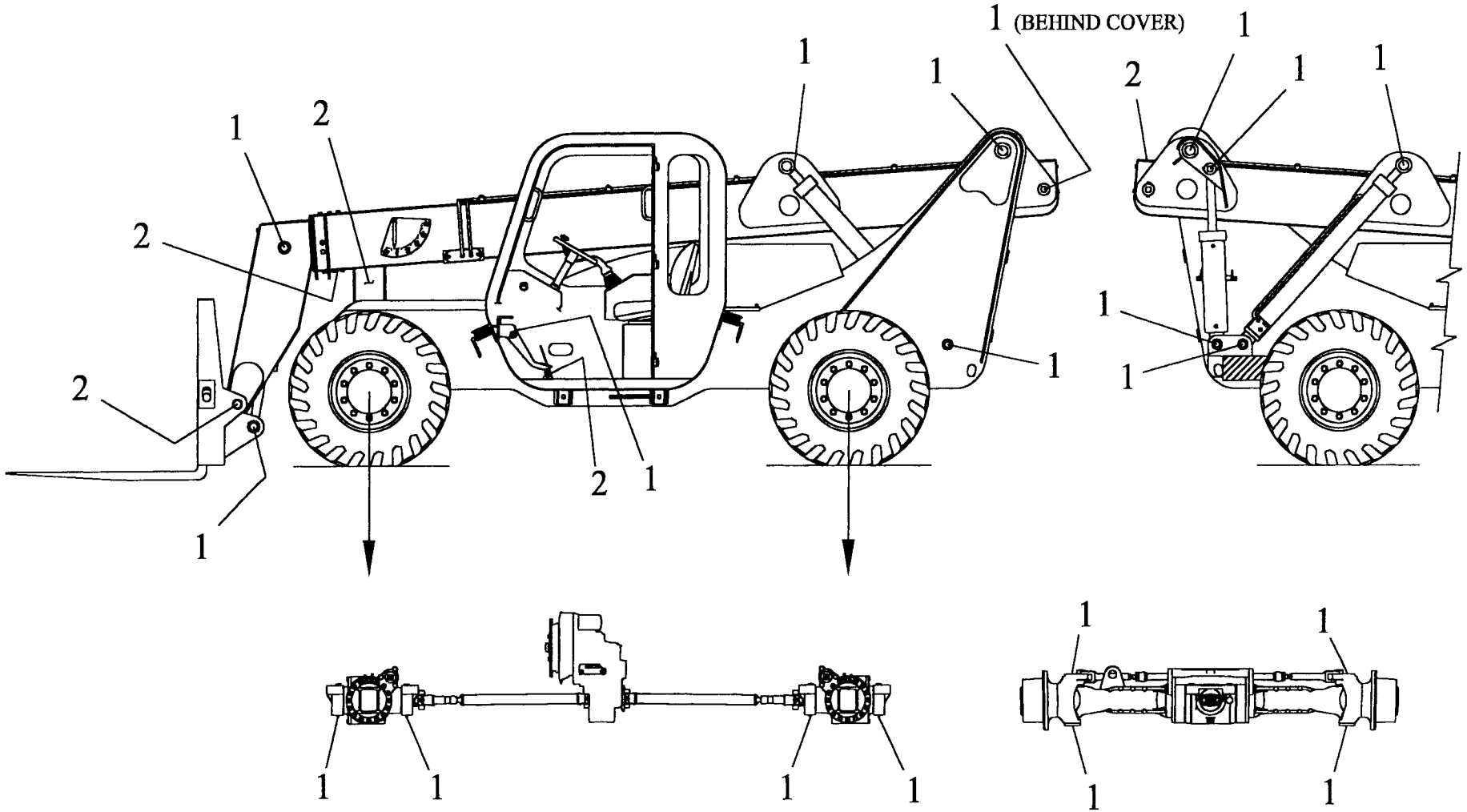
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## TH528


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| 26 | CIRCUIT / FUEL / CUMMINS B3.9-C-80 | P4-1858 |
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PAGE NUMBER 1

LUBE CHART TH528

DRAWING NUMBER P4-1890



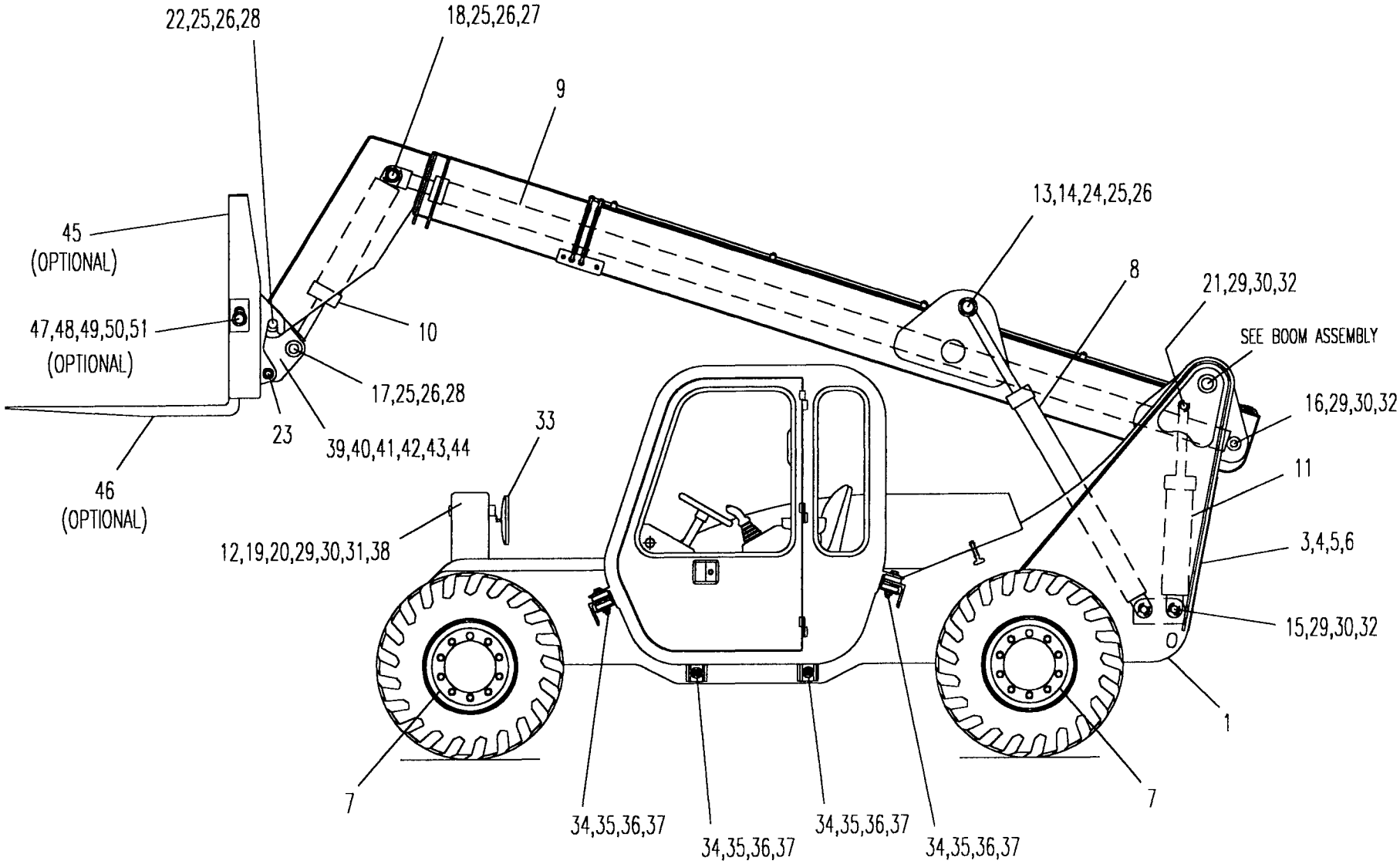

EXPLODED VIEW OF POWER TRAIN ASSEMBLY

EXPLODED VIEW OF FRONT AND REAR AXLE ASSEMBLIES

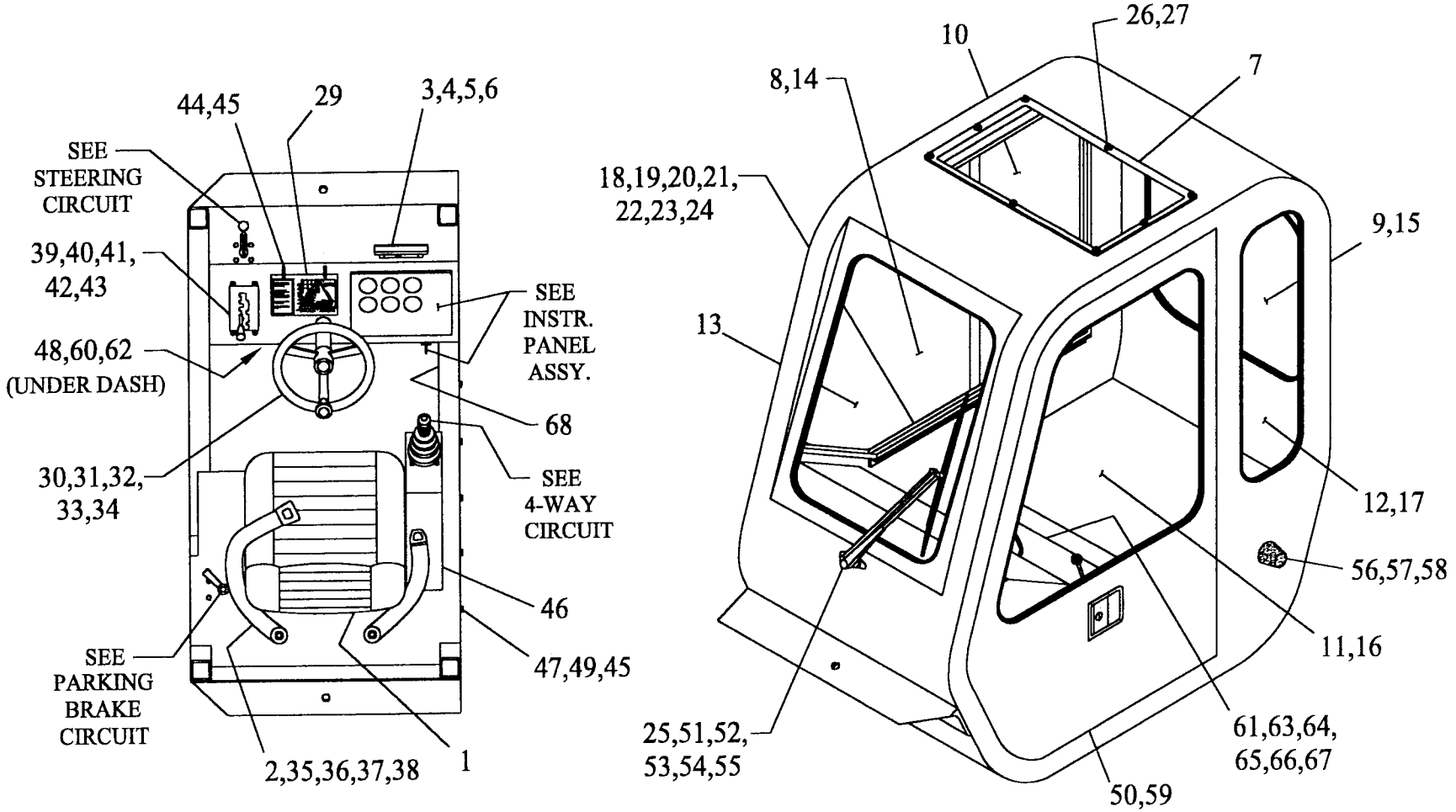
| MANUFACTURER PART NUMBER | NUMBER | DESCRIPTION | SEAL KIT |
|---|---|---|---|
| PPDB-LNN | 7-234-13 | CARTRIDGE / REDUCING RELIEVING | 7-234-29 |
| PBFB-FAN | 7-234-15 | CARTRIDGE / REDUCING | 7-234-30 |
| CXDA-XCN | 7-234-80 | CARTRIDGE / CHECK | 7-234-31 |
| CKCD-XCN | 7-234-18 | CARTRIDGE / PILOT 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 |
| 12C25S | 7-244-08 | CARTRIDGE / DROP BLOCK | 7-244-46 |
| 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 |
| MR10-31-O-N-OO | 7-356-13 | CARTRIDGE / PARKING BRAKE VALVE | 7-356-14 |
| | 7-316-194 | CYLINDER / SWAY | 7-900-76 |
| | 7-316-190 | 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 |
| | 7-316-05 | CYLINDER / FORK FRAME ROTATE | 7-900-25 |
| | 7-198-39 | BRAKE ACTUATOR | 7-198-40 |
| | 7-345-62 | CONTROLLER / 4-WAY | 7-345-87 |
| | 7-256-30 | ORBITRAL / STEERING | 7-256-35 |

| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 4-1392-6 | 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 | 4-1401 | FULL DECAL SHT. / ITEMS MARKED (*) | REF |
| 35 | | | |
| 36 | | | |
| 37 | | | |
| 38 | | (*) DECALS NOT SOLD SEPARATELY | |

# NOTES


22,25,26,28
18,25,26,27
9
13,14,24,25,26
8
21,29,30,32
SEE BOOM ASSEMBLY
16,29,30,32
11
3,4,5,6
15,29,30,32
1
45
(OPTIONAL)
47,48,49,50,51
(OPTIONAL)
46
(OPTIONAL)
10
17,25,26,28
23
39,40,41,42,43,44
33
12,19,20,29,30,31,38
7
7
34,35,36,37
34,35,36,37
34,35,36,37
34,35,36,37

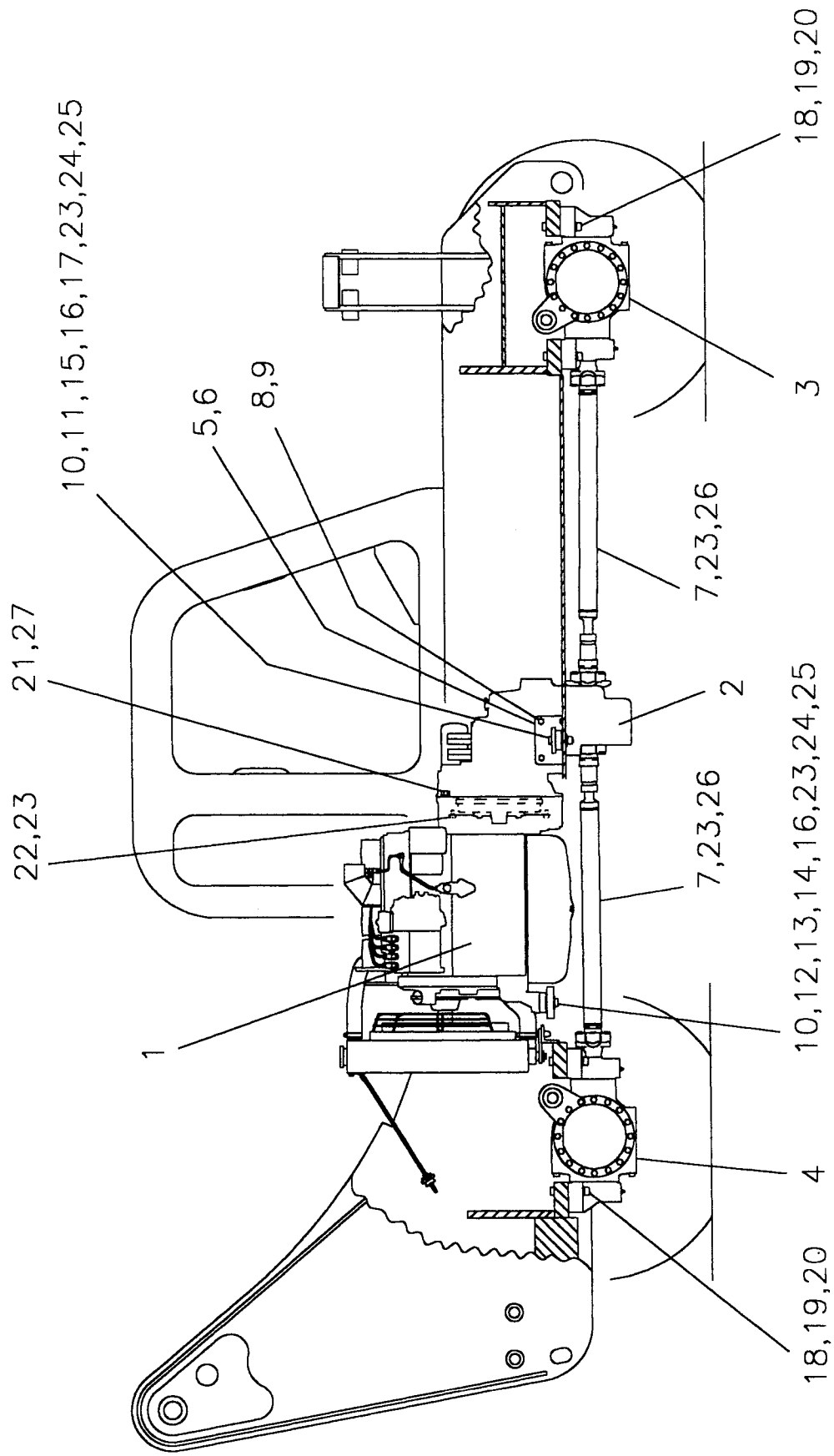
| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 4-1815 | MAIN FRAME WELDMENT | 1 |
| 2 | 4-1819 | CAB WELDMENT | 1 |
| 3 | 4-1829 | REAR PANEL | 1 |
| 4 | 6-5206-06 | CAPSCREW 3/8 NC x 3/4 LG. | 2 |
| 5 | 6-6211-06 | LOCKWASHER 3/8 | 2 |
| 6 | 6-6212-06 | FLATWASHER 3/8 | 2 |
| 7 | 7-335-03 | WHEEL ASSEMBLY | 4 |
| 8 | 7-316-190 | 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 | 3-1362 | 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 | 6-4516-16 | BRONZE BUSHING / AXLE SWAY | 1 |
| 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 | 3-1028-10 | FORK TINE / 48 IN. (OPTIONAL) | REF |
| 47 | 2-1067-10 | FORK TINE PIN / 48 IN. | REF |
| 48 | 1-1074 | COLLAR / FORK TIN 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 | 6-6201-08 | HEX NUT 1/2 NC | REF |


44,45
29
3,4,5,6
SEE STEERING CIRCUIT
39,40,41, 42,43
48,60,62 (UNDER DASH)
30,31,32, 33,34
SEE PARKING BRAKE CIRCUIT
2,35,36,37,38
1
SEE INSTR. PANEL ASSY.
68
SEE 4-WAY CIRCUIT
46
47,49,45
10
26,27
8,14
7
18,19,20,21, 22,23,24
9,15
13
12,17
56,57,58
11,16
25,51,52, 53,54,55
61,63,64, 65,66,67
50,59

| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-197-01 | SEAT | 1 |
| 2 | 7-337-01 | SEAT BELT | 1 |
| 3 | 7-283-01 | LEVEL GAGE | 1 |
| 4 | 6-6284-03 | MACHINE SCREW # 8-32 x 1 LG. | 2 |
| 5 | 6-6286-02 | HEX NUT # 8-32 | 2 |
| 6 | 6-6286-11 | STARWASHER / INTERNAL #8 | 2 |
| 7 | 4-1861-1 | GLASS / SKYLIGHT | 1 |
| 8 | 6-4110-05 | GLASS / WINDSHIELD | 1 |
| 9 | 6-4110-07 | GLASS / REAR | 1 |
| 10 | 6-4010-02 | GLASS / RH / REAR SLIDER | 1 |
| 11 | 6-3910-06 | GLASS / LH / DOOR | 1 |
| 12 | 6-4110-06 | GLASS / LH / CAB | 1 |
| 13 | 6-3910-07 | GLASS / RH / FRONT SLIDER | 1 |
| 14 | 6-9608-832 | RUBBER / WINDSHIELD | 1 |
| 15 | 6-9608-720 | RUBBER / REAR WINDOW | 1 |
| 16 | 6-9608-960 | RUBBER / LH / DOOR | 1 |
| 17 | 6-9608-664 | RUBBER / LH / CAB | 1 |
| 18 | 4-1862-1 | CHANNEL WELDMENT / REMOVABLE | REF |
| 19 | 7-226-03 | HANDLE / SLIDING WINDOW | 1 |
| 20 | 6-9614-268 | RUBBER CHANNEL | 1 |
| 21 | 6-9614-110 | RUBBER CHANNEL | 1 |
| 22 | 6-9614-227 | RUBBER CHANNEL | 1 |
| 23 | 6-9614-298 | RUBBER CHANNEL | 1 |
| 24 | 6-9614-271 | RUBBER CHANNEL | 1 |
| 25 | 6-6211-04 | LOCKWASHER 1/4 | 2 |
| 26 | 6-5204-04 | CAPSCREW 1/4 NC x 1/2 LG. | 8 |
| 27 | 6-6212-04 | FLATWASHER 1/4 | 8 |
| 28 | 6-9601-64 | EDGING 1/4 x 8 LG. | 1 |
| 29 | 4-1386-5 | LOAD CHART / TH528 | 1 |
| 30 | 7-256-32 | NUT / STEERING WHEEL (w/ ITEM 36) | REF |
| 31 | 7-256-30 | STEERING ORBITRAL | 1 |
| 32 | 7-256-31 | STEERING COLUMN | 1 |
| 33 | 7-352-01 | STEERING WHEEL | 1 |
| 34 | 7-352-02 | HORN BUTTON KIT | 1 |
| 35 | 6-5206-06 | CAPSCREW 3/8 NC x 3/4 LG. | 2 |
| 36 | 6-6211-06 | LOCKWASHER 3/8 | 2 |
| 37 | 6-6212-06 | FLATWASHER 3/8 | 2 |
| 38 | 6-6201-06 | HEX NUT 3/8 NC | 2 |
| 39 | 7-351-01 | TRANSMISSION CONTROL | 1 |
| 40 | 6-6284-08 | MACHINE SCREW #10-32 x 3/4 LG. | 4 |
| 41 | 6-6286-06 | HEX NUT #10-32 | 4 |
| 42 | 6-6286-12 | FLATWASHER #10 | 4 |
| 43 | 6-6286-07 | LOCKWASHER #10 | 4 |
| 44 | 7-194-07 | U-BOLT w/ NUTS | 2 |
| 45 | 6-6201-04 | HEX NUT 1/4 NC | 8 |
| 46 | 4-1832 | CONTROLLER MOUNT / ARMREST | 1 |
| 47 | 6-5204-06 | CAPSCREW 1/4 NC x 3/4 LG. | 4 |
| 48 | 6-9601-144 | EDGING 1/4 x 18 LG. | 1 |
| 49 | 6-6211-04 | LOCKWASHER 1/4 | 4 |
| 50 | 7-194-63 | WEATHERSTRIP / PER FOOT | 7 |
| 51 | 7-293-23 | PANTOGRAPH KIT / WINDSHIELD WIPER | 1 |
| 52 | 7-293-24 | WIPER ARM / 18 IN. | 1 |

| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 53 | 7-293-25 | WIPER BLADE / 20 IN. | 1 |
| 54 | 7-293-26 | ADAPTER KIT / WINDSHIELD WIPER | 1 |
| 55 | 6-5304-06 | CAPSCREW 1/4 NF x 3/4 LG. | 2 |
| 56 | 7-194-61 | RUBBER STUD BUMPER | 1 |
| 57 | 6-6211-05 | LOCKWASHER 5/16 | 1 |
| 58 | 6-6201-05 | HEX NUT 5/16 NC | 1 |
| 59 | 4-1819-1 | DOOR | REF |
| 60 | 4-1819-2 | VANDAL COVER / UNDER DASH | REF |
| 61 | 4-1819-3 | COVER / SEAT MOUNT | REF |
| 62 | 7-290-01 | BODY BOLT 5/16 NC x 3/4 LG. | 4 |
| 63 | 6-5204-04 | CAPSCREW 1/4 NC x 1/2 LG. | 4 |
| 64 | 6-6212-04 | FLATWASHER 1/4 | 4 |
| 65 | 6-6211-04 | LOCKWASHER 1/4 | 4 |
| 66 | 7-194-09 | GROMMET | 1 |
| 67 | 6-9601-80 | EDGING 1/4 x 10 LG. | 1 |
| 68 | 6-9601-133 | EDGING 1/4 x 16 5/8 LG. | 1 |

# NOTES

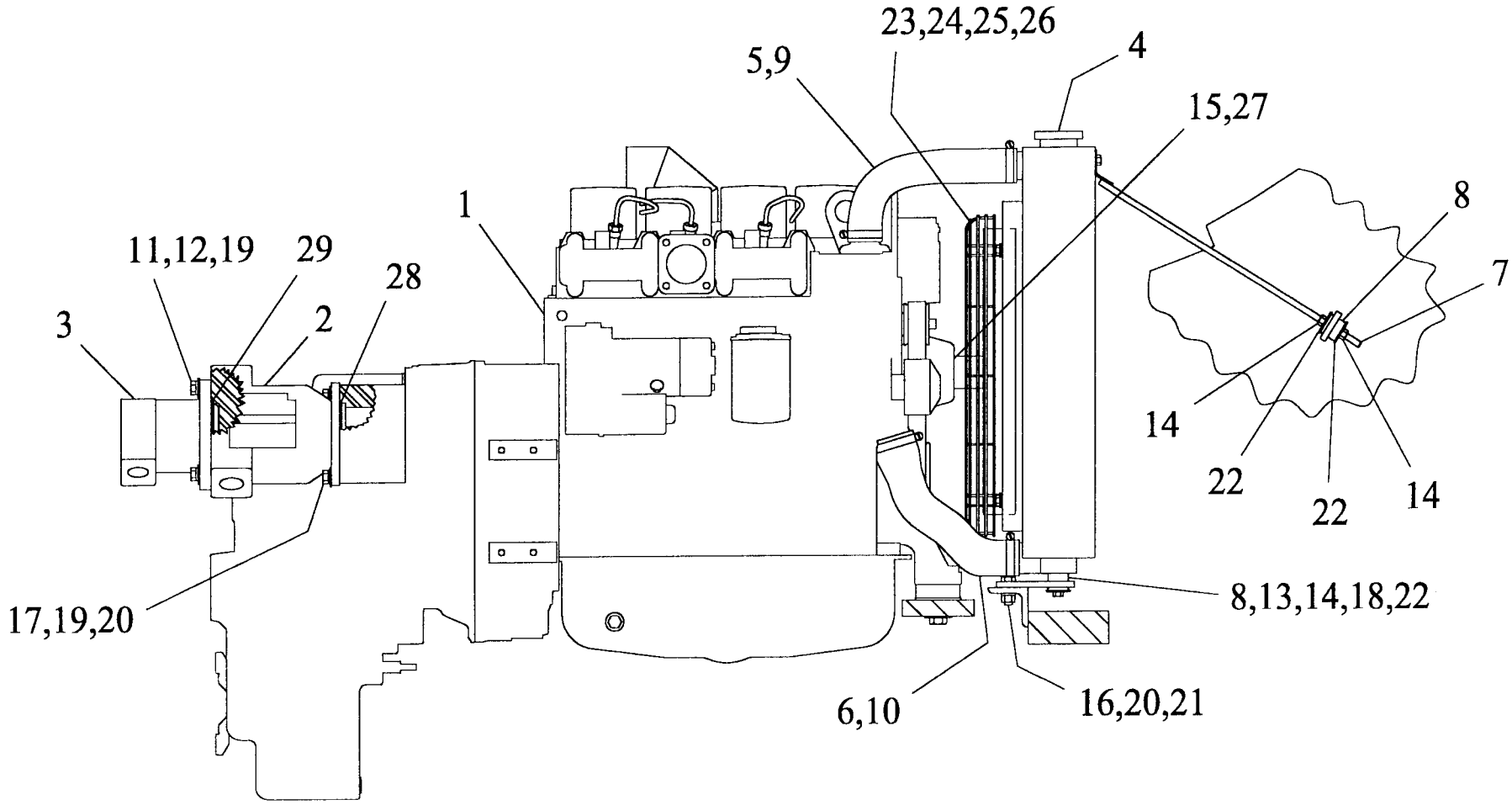



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|---|---|---|---|---|
| 6 | PAGE NUMBER | POWER TRAIN ASSEMBLY TH528 | DRAWING NUMBER | P4-1837 |

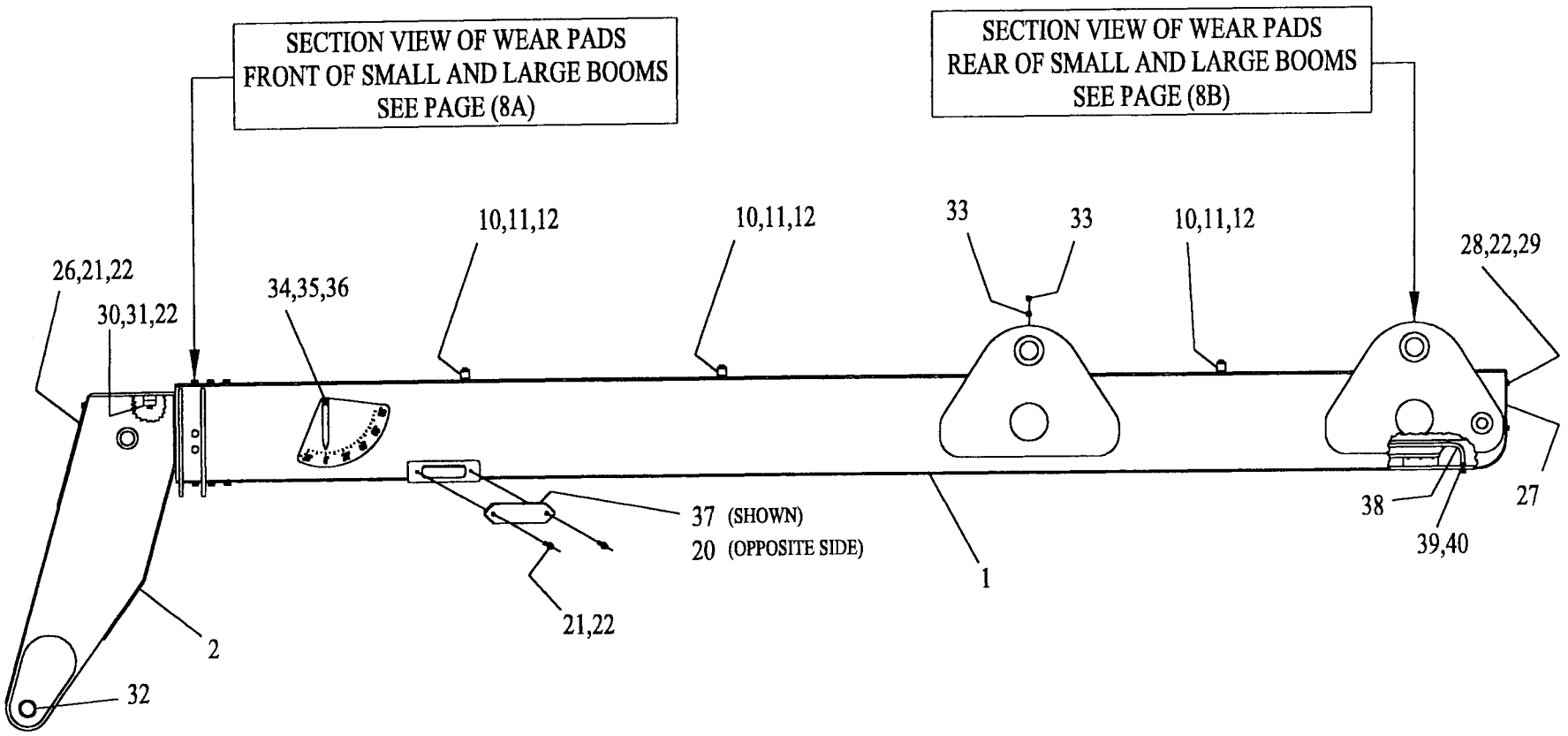
| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | P4-1838 | ENGINE and PUMP ASSEMBLY | REF |
| 2 | 7-126-348 | TRANSMISSION ASSEMBLY | 1 |
| 3 | 7-229-360 | AXLE ASSEMBLY / FRONT | 1 |
| 4 | 7-229-360 | AXLE ASSEMBLY / REAR | 1 |
| 5 | 3-1360-1 | MOUNT / TRANSMISSION / LH | 1 |
| 6 | 3-1360-2 | MOUNT / TRANSMISSION / RH | 1 |
| 7 | 7-196-41 | DRIVESHAFT / FRONT & REAR | 2 |
| 8 | 6-8112-35 | CAPSCREW 12mm x 1.75 x 35mm LG. | 5 |
| 9 | 6-9111-12 | LOCKWASHER 12mm | 5 |
| 10 | 7-326-02 | RUBBER MOUNT / ENGINE-TRANS. | 3 |
| 11 | 6-5310-30 | CAPSCREW 5/8 NF x 3 3/4 LG. | 2 |
| 12 | 6-5210-32 | CAPSCREW 5/8 NC x 4 LG. | 1 |
| 13 | 6-6207-10 | JAM NUT 5/8 NC | 1 |
| 14 | 6-5206-16 | CAPSCREW 3/8 NC x 2 LG. | 2 |
| 15 | 6-6212-10 | FLATWASHER 5/8 | 3 |
| 16 | 6-6211-10 | LOCKWASHER 5/8 | 3 |
| 17 | 6-6202-10 | HEX NUT 5/8 NF | 2 |
| 18 | 6-5312-40 | CAPSCREW 3/4 NF x 5 LG. | 8 |
| 19 | 6-6211-12 | LOCKWASHER 3/4 | 8 |
| 20 | 6-6202-12 | HEX NUT 3/4 NF | 8 |
| 21 | 6-8510-40 | CAPSCREW 10mm x 1.5 x 40mm LG. | 11 |
| 22 | 6-5306-14 | CAPSCREW 3/8 NF x 1 3/4 LG. | 8 |
| 23 | 6-6211-06 | LOCKWASHER 3/8 | 30 |
| 24 | 6-6201-06 | HEX NUT 3/8 NC | 6 |
| 25 | 6-5206-12 | CAPSCREW 3/8 NC x 1 1/2 LG. | 4 |
| 26 | 6-5306-16 | CAPSCREW 3/8 NF x 2 LG. | 16 |
| 27 | 6-9111-10 | LOCKWASHER 10mm | 11 |

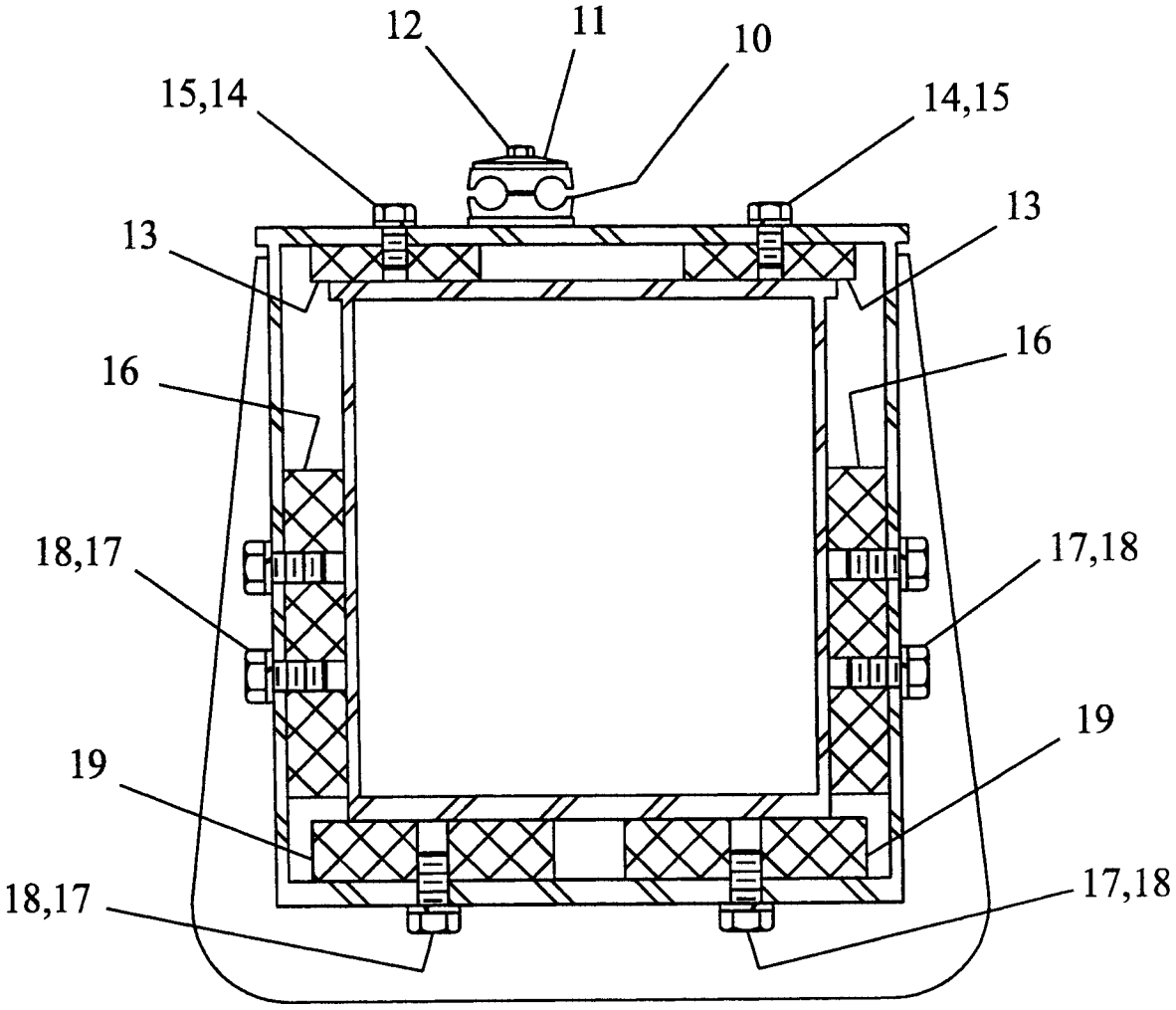
ENGINE & PUMP ASSEMBLY
TH528



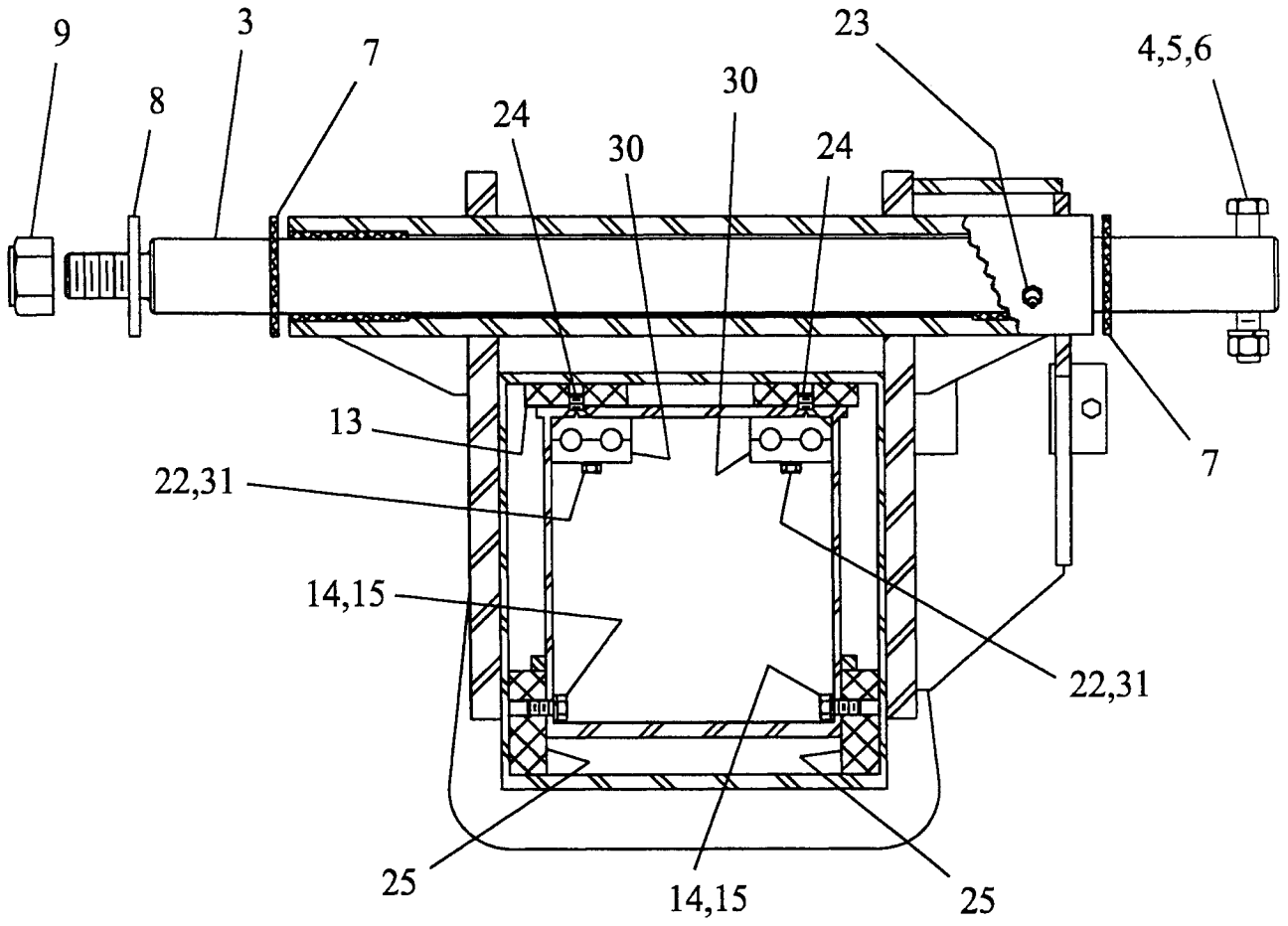


| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-343-24 | ENGINE ASSY / CUMMINS B3.9-C-80 | 1 |
| 2 | 7-345-56 | PUMP / PISTON TYPE / 45cc | 1 |
| 3 | 7-345-57 | PUMP / GEAR TYPE / 23.8cc | 1 |
| 4 | 7-311-15 | RADIATOR | 1 |
| 5 | 7-158-86 | RADIATOR HOSE / UPPER | 1 |
| 6 | 7-158-87 | 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 | 7-343-02 | SPACER / FAN / 1 1/2 (2 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 (8A)
SECTION VIEW OF WEAR PADS
REAR OF SMALL AND LARGE BOOMS
SEE PAGE (8B)
26,21,22
30,31,22
34,35,36
10,11,12
10,11,12
33
33
10,11,12
28,22,29
37 (SHOWN)
20 (OPPOSITE SIDE)
21,22
2
32
1
38
39,40
27

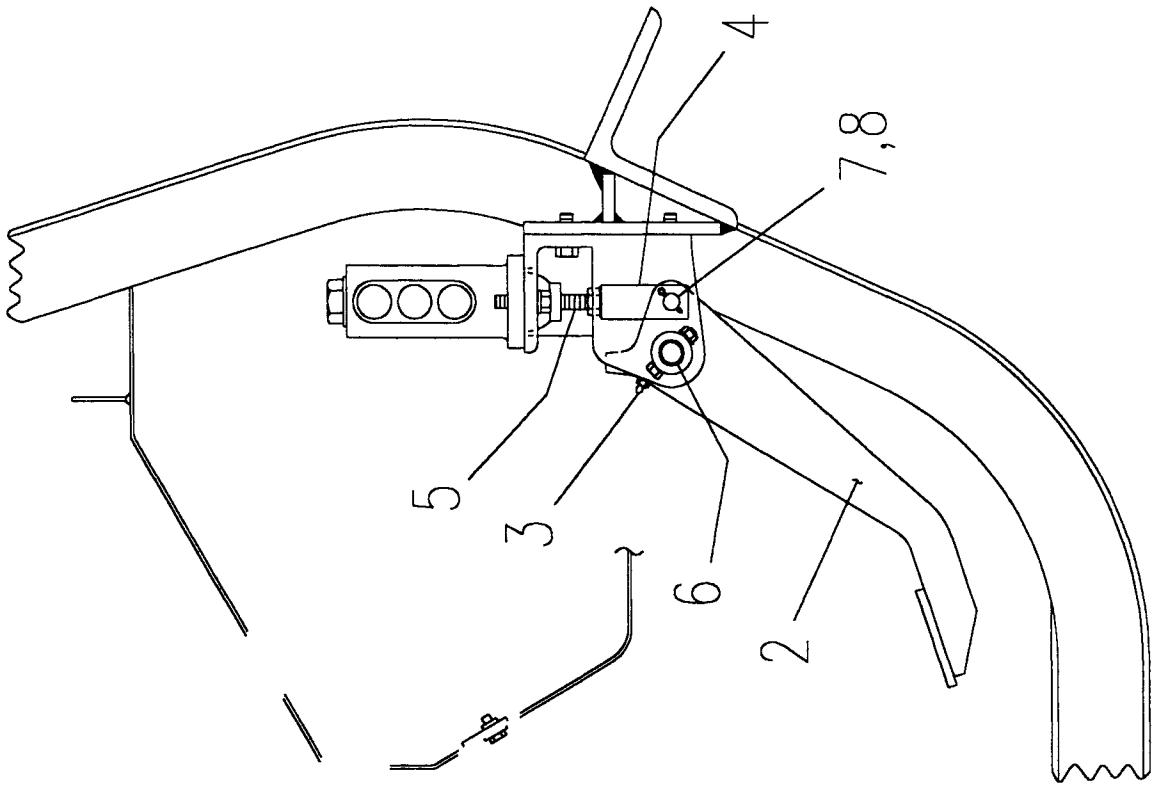


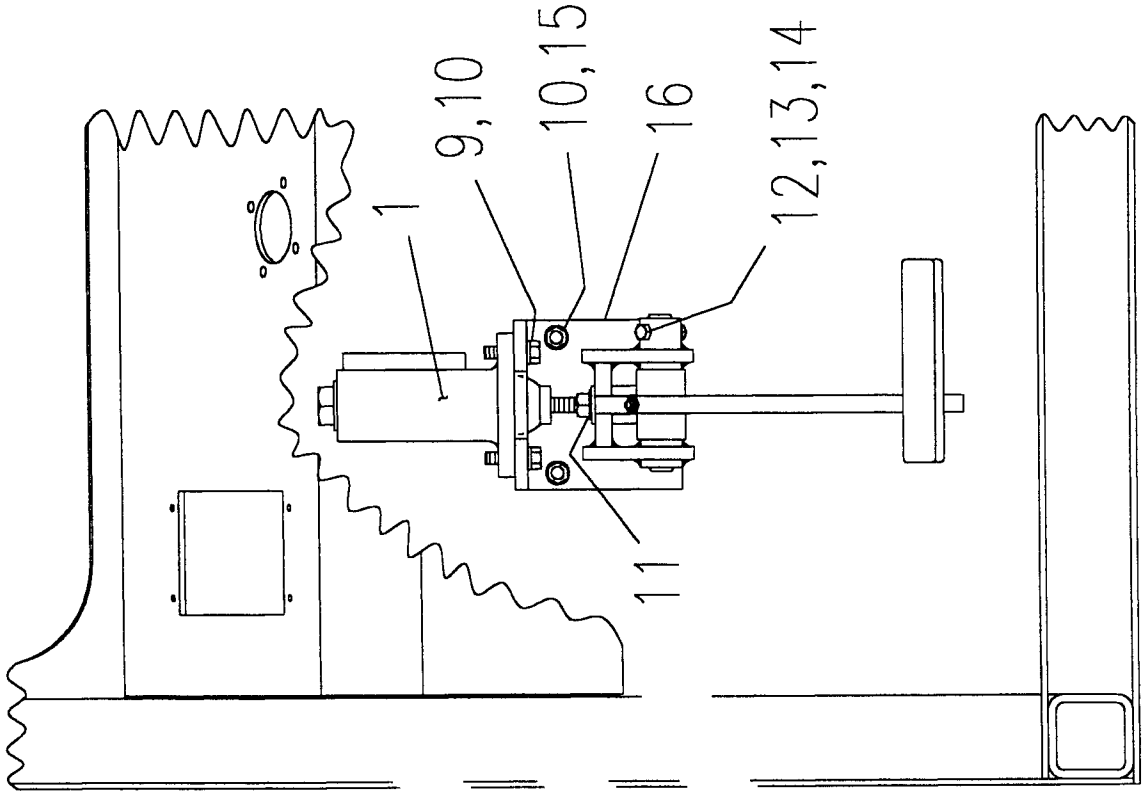

# SECTION VIEW OF WEAR PADS FRONT OF SMALL AND LARGE BOOMS




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

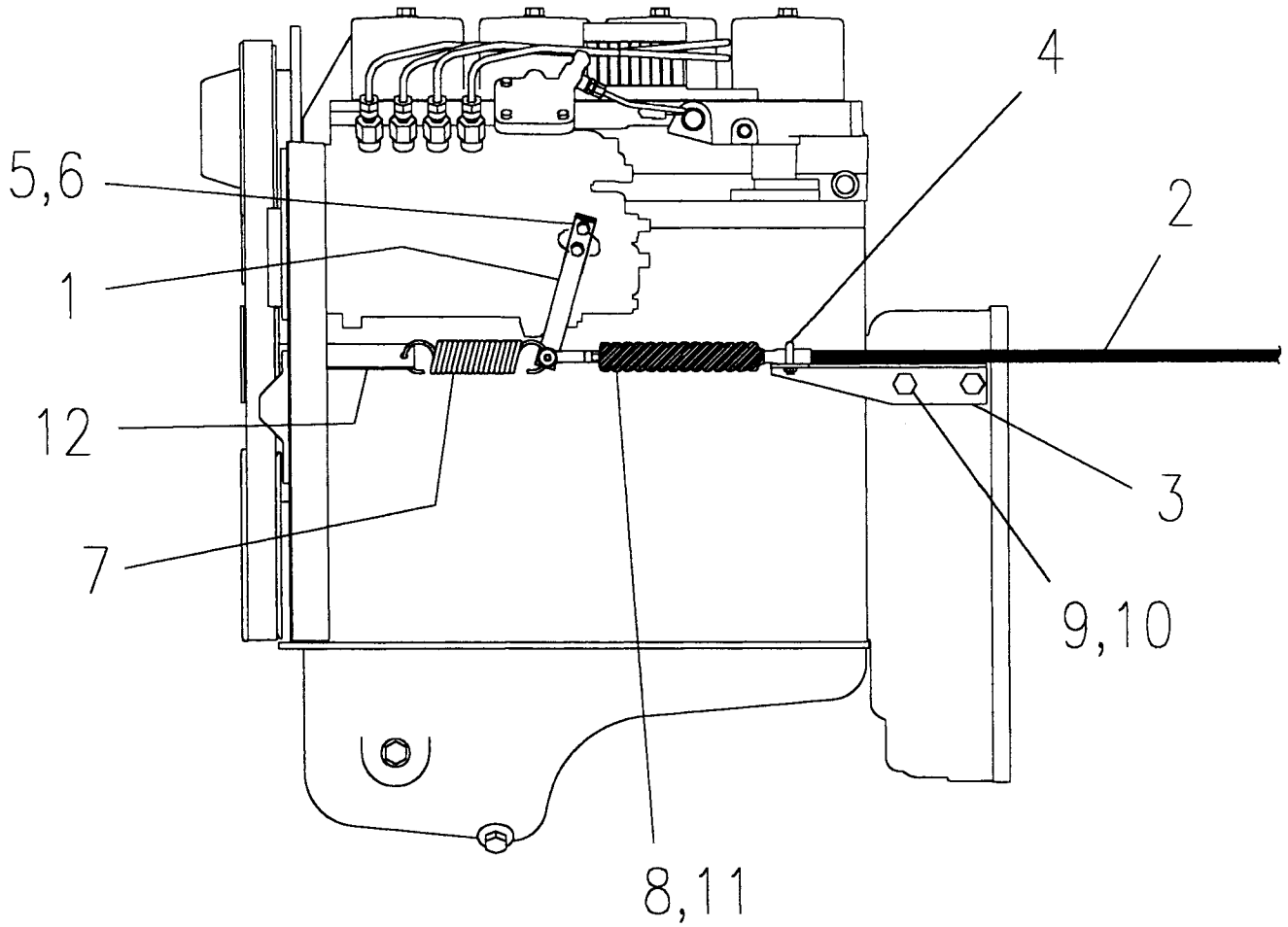
| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 4-1816 | LARGE BOOM | 1 |
| 2 | 4-1817 | SMALL BOOM | 1 |
| 3 | 3-1154-6 | CROSS SHAFT / MAIN PIVOT | 1 |
| 4 | 6-5312-40 | CAPSCREW 3/4 NF x 5 LG. | 1 |
| 5 | 6-6202-12 | HEX NUT 3/4 NF | 1 |
| 6 | 6-6211-12 | LOCKWASHER 3/4 | 1 |
| 7 | 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. | 12 |
| 18 | 6-6211-10 | LOCKWASHER 5/8 | 12 |
| 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 | 2-1193 | CLAMP / 1/2 HOSE | 4 |
| 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 |



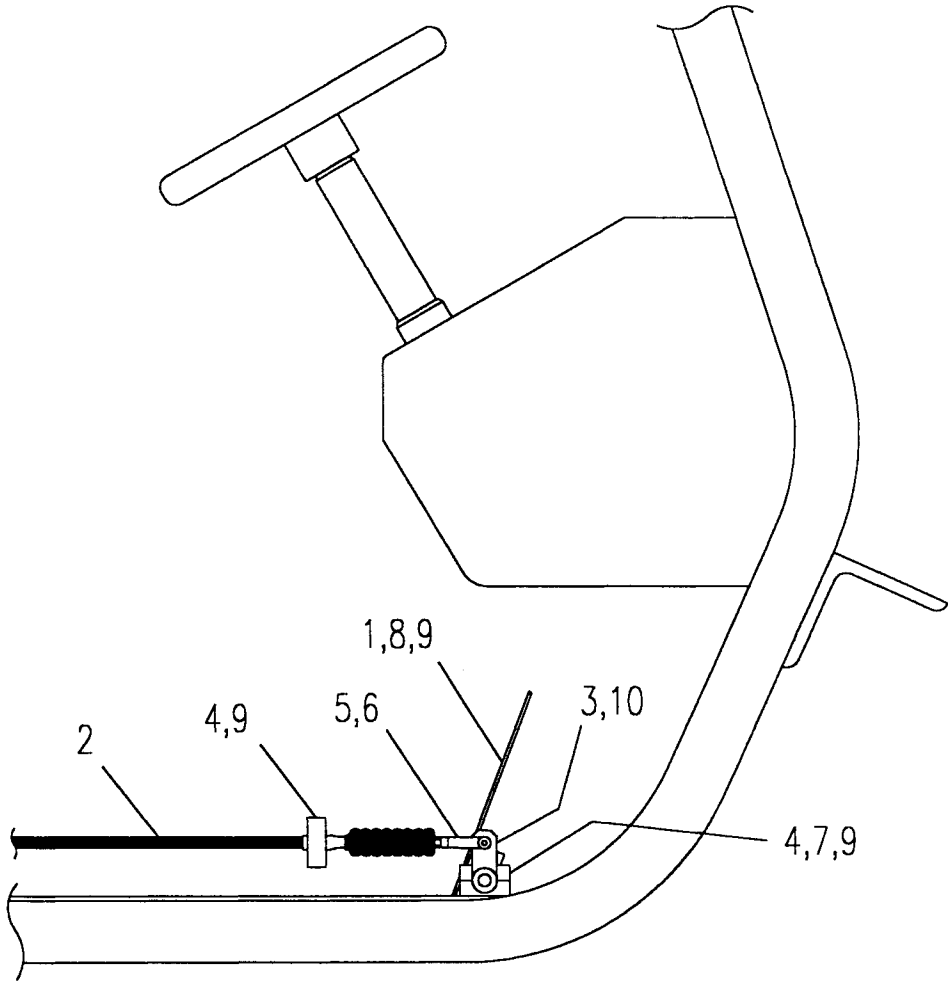




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|---|---|---|---|---|
| 9 | PAGE NUMBER | FOOT BRAKE ASSEMBLY TH528 | DRAWING NUMBER | P4-1840 |

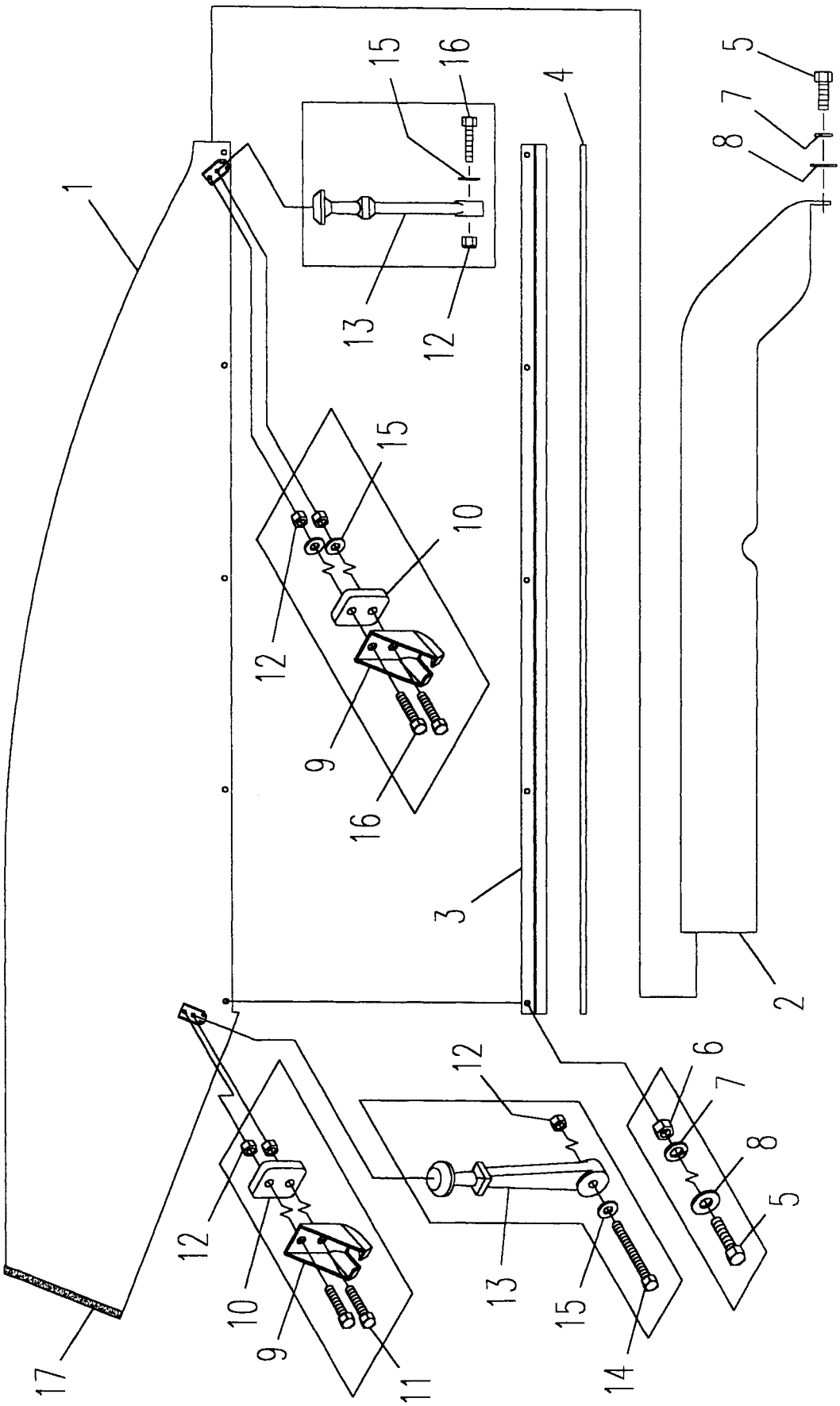
| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-198-39 | ACTUATOR / BRAKE | 1 |
| 2 | 3-1148 | PEDAL / BRAKE | 1 |
| 3 | 6-6306 | LUBE FITTING 1/4-28 THD. | 1 |
| 4 | 1-1008 | YOKE / BRAKE | 1 |
| 5 | 1-1009 | PUSH ROD | 1 |
| 6 | 2-1117 | PIN / BRAKE PEDAL | 1 |
| 7 | 6-6261-12 | CLEVIS 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 |

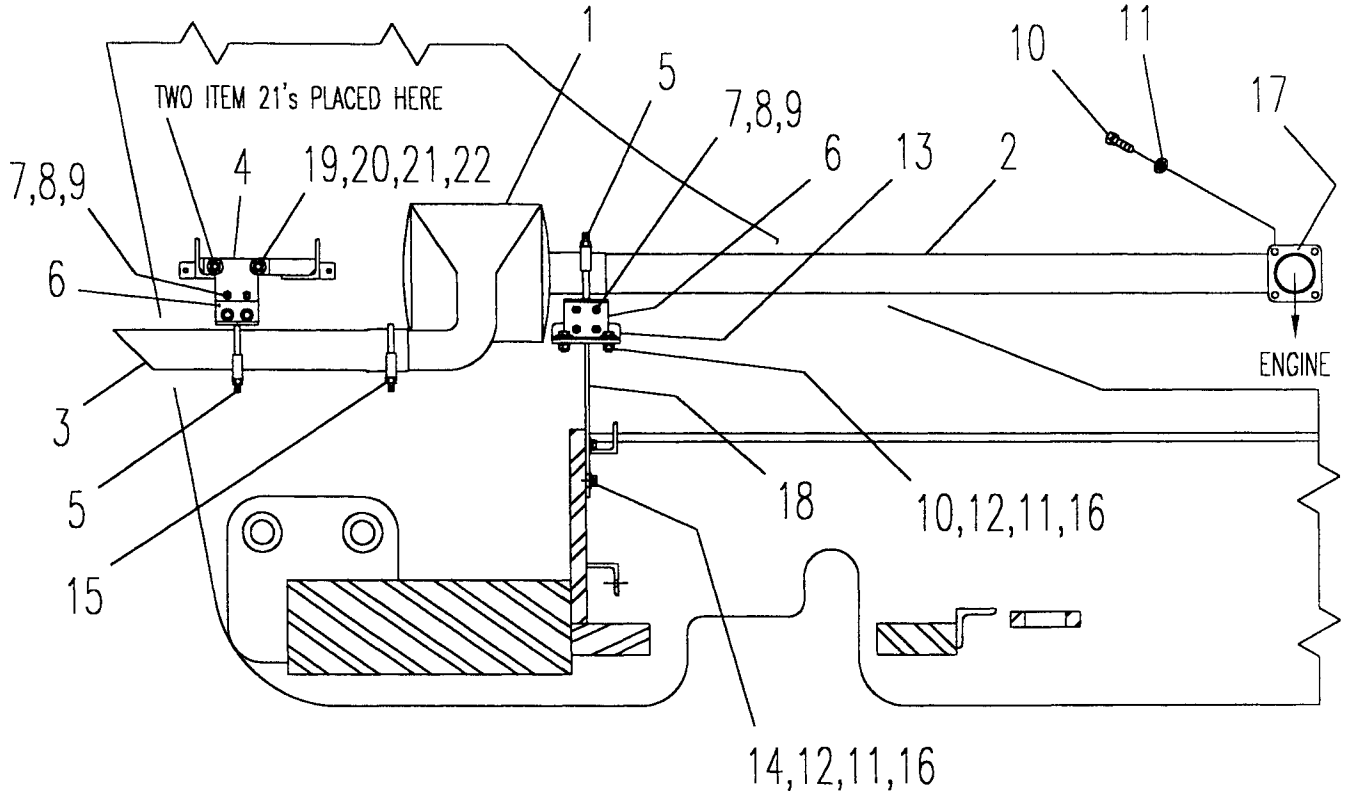



| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 3-1080 | PEDAL / ACCELERATOR | 1 |
| 2 | 7-266-02 | CABLE / ACCELERATOR | 1 |
| 3 | 3-1380 | LINKAGE / ACCELERATOR | 1 |
| 4 | 6-5204-08 | CAPSCREW 1/4 NC x 1 LG. | 6 |
| 5 | 7-194-05 | YOKE w/ CLEVIS PIN & COTTER PIN | 1 |
| 6 | 6-6208-04 | 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 |

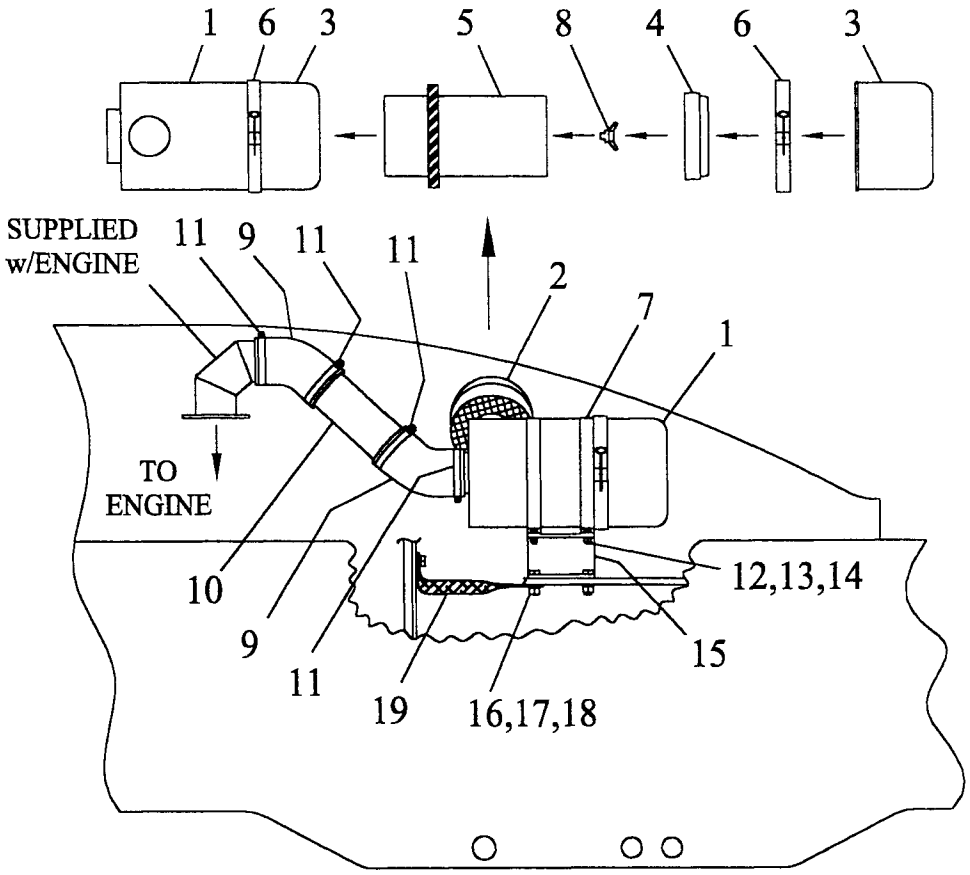



| | | | |
|---|---|---|---|
| 12 PAGE NUMBER | ENGINE ENCLOSURE ASSEMBLY<br>TH528 | DRAWING NUMBER | P4-1843 |

| 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 |

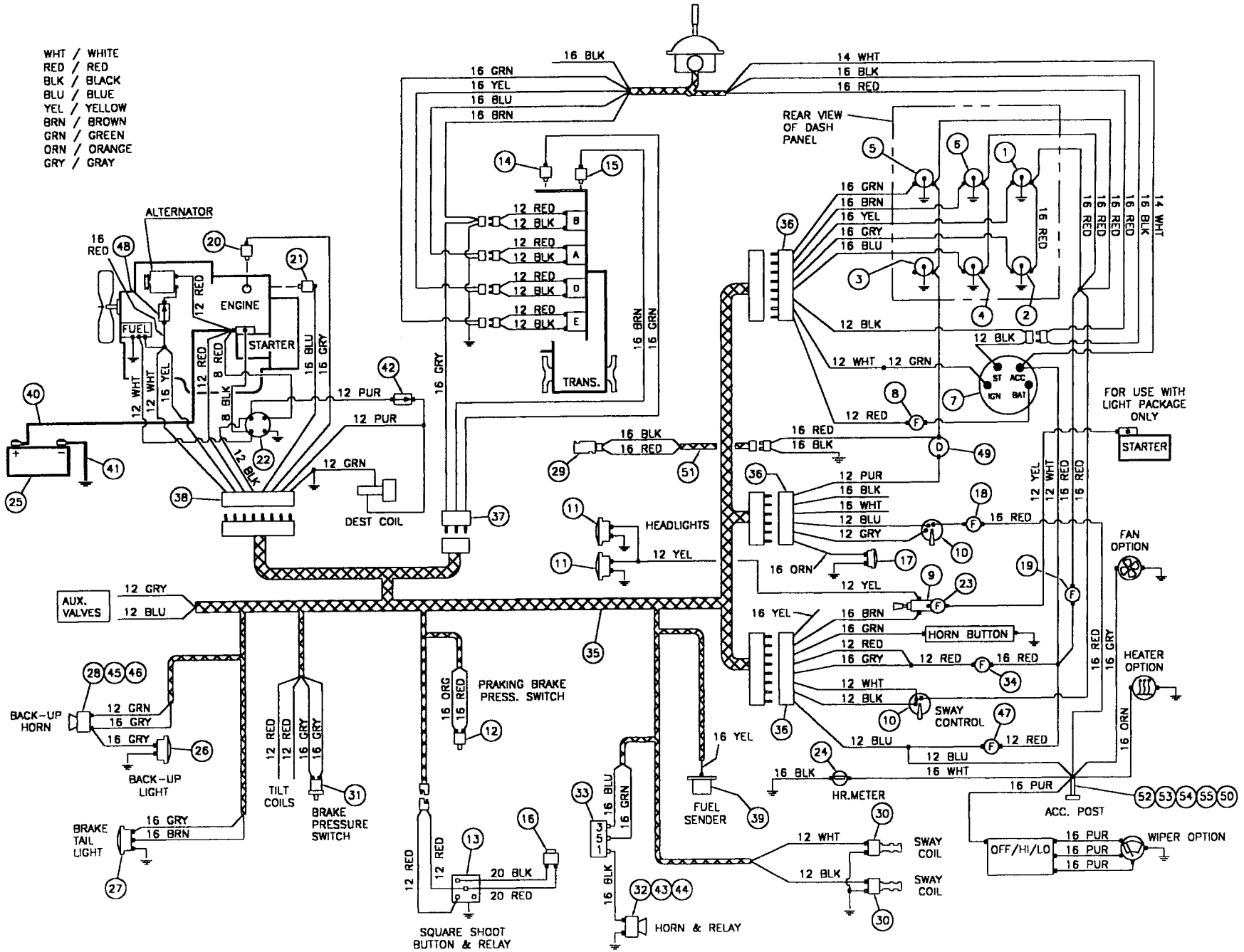



| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-135-01 | AIR CLEANER ASSEMBLY | 1 |
| 2 | 7-135-03 | HOOD | 1 |
| 3 | 7-135-10 | CUP ASSEMBLY | REF |
| 4 | 7-135-09 | BAFFLE ASSEMBLY | REF |
| 5 | 7-135-07 | ELEMENT ASSEMBLY | REF |
| 6 | 7-135-08 | CLAMP ASSEMBLY / BODY | REF |
| 7 | 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 |

PAGE NUMBER 15

WIRING DIAGRAM TH528

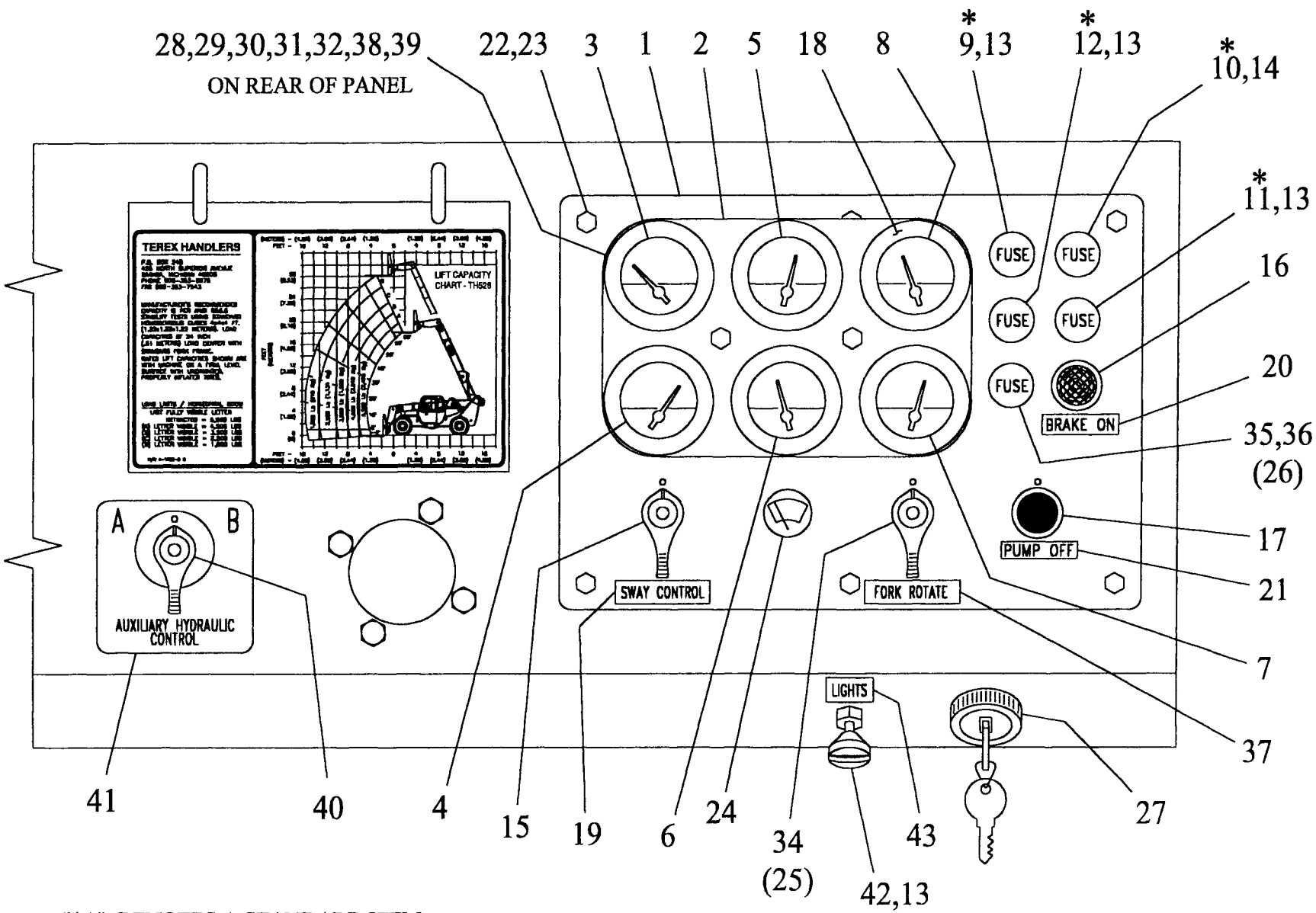
DRAWING NUMBER P4-1846



| 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 | 7-198-41 | PRESSURE SWITCH / PARKING BRAKE | REF |
| 13 | 7-206-07 | RELAY / SQUARE SHOOT | 1 |
| 14 | 7-172-16 | SENDER / TRANS. OIL PRESSURE | REF |
| 15 | 7-172-07 | SENDER / TRANS. OIL TEMP. | REF |
| 16 | 7-345-84 | SWITCH / PUSHBUTTON / JOYSTICK | REF |
| 17 | 7-127-05 | LIGHT / WARNING | REF |
| 18 | 7-268-01 | FUSE HOLDER / OPTIONAL / ROTATE | REF |
| 19 | 7-268-01 | FUSE HOLDER / GAGES / SWAY | 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 | 7-213-01 | BACK-UP ALARM | 1 |
| 29 | 7-244-50 | VALVE / CONTROLLER RELIEF | REF |
| 30 | 7-244-12 | COIL / SWAY CONTROL | REF |
| 31 | 7-206-03 | PRESSURE SWITCH / BRAKE LIGHT | REF |
| 32 | 7-228-01 | HORN | 1 |
| 33 | 7-206-04 | RELAY / HORN | 1 |
| 34 | 7-268-01 | FUSE HOLDER / SQ. SHOOT / BRAKE | 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 | 6-5206-04 | CAPSCREW 3/8 NC x 1/2 LG. | 2 |
| 46 | 6-6211-06 | LOCKWASHER 3/8 | 2 |
| 47 | 7-268-01 | FUSE HOLDER / HORN | REF |
| 48 | 7-281-01 | DIODE / ALTERNATOR | REF |
| 49 | 7-319-03 | PUSHBUTTON / PUMP DESTROKE | REF |
| 50 | 6-6286-07 | LOCKWASHER #10 | 2 |
| 51 | 1-1198 | HARNESS / CONTROLLER RELIEF | 1 |
| 52 | 7-269-107 | JUNCTION STUD | 1 |

| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 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



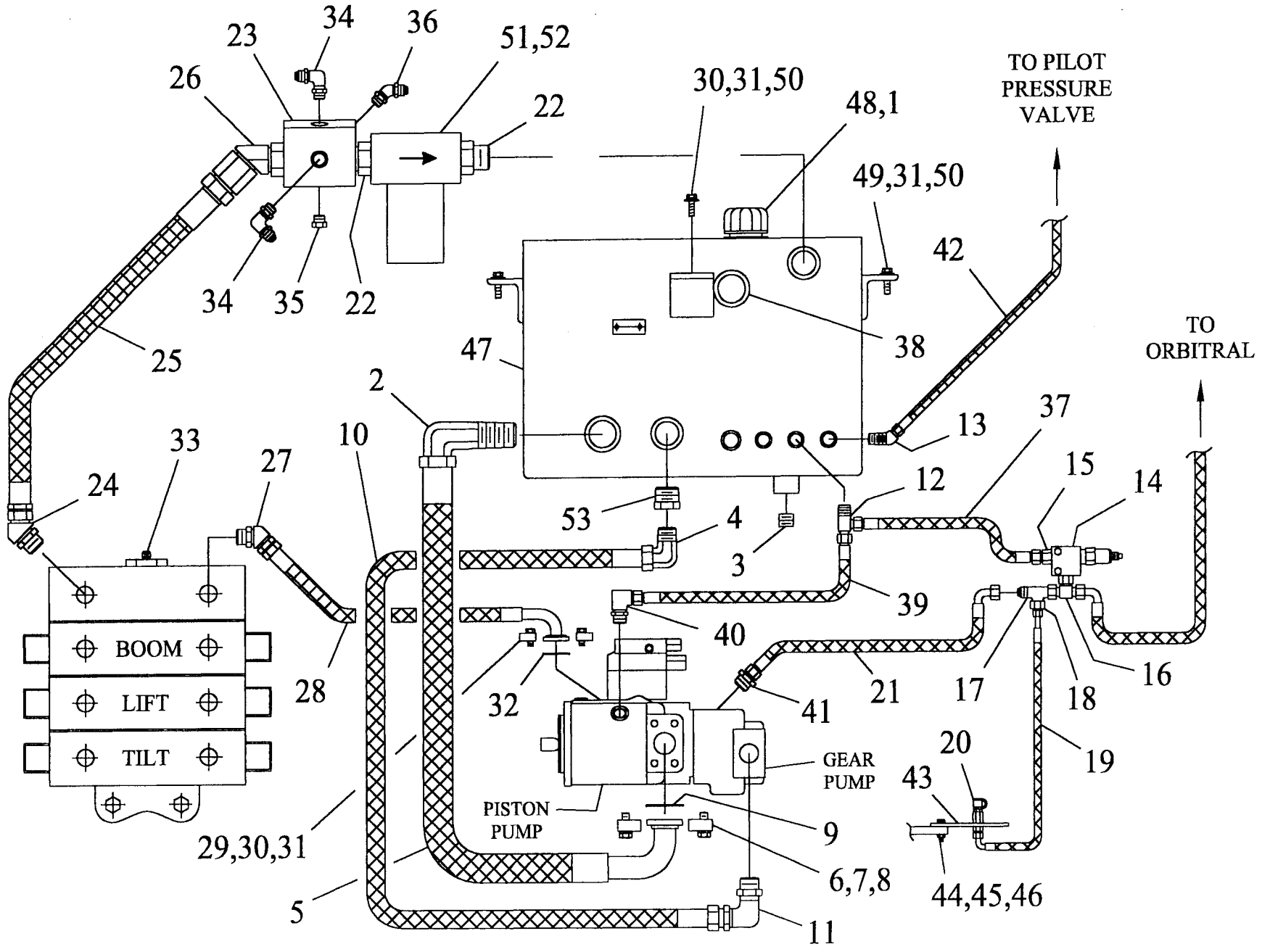

"( )" DENOTES A STANDARD ITEM
" * " CONSISTS OF ONE ITEM #33 - FUSE HOLDER w/PLUG

| 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 | 7-268-01 | HOLDER / JOYSTICK RELAY / BRK. LIGHT | 1 |
| 10 | 7-268-01 | HOLDER / MAIN POWER / IGNITION | 1 |
| 11 | 7-268-01 | HOLDER / HORN | 1 |
| 12 | 7-268-01 | HOLDER / GAGES / SWAY | 1 |
| 13 | 7-117-01 | FUSE / 15 AMP. | 3 |
| 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 | 1 |
| 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 | 7-268-01 | HOLDER / OPTION | REF |
| 36 | 7-117-01 | FUSE / 15 AMP | 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 | 7-127-04 | SWITCH / AUXILIARY HYDRAULICS | REF |
| 41 | 2-1213 | DECAL / AUXILIARY HYDRAULICS | REF |
| 42 | 7-127-12 | SWITCH / HEADLIGHT | REF |
| 43 | 1-1149 | DECAL / LIGHTS | REF |

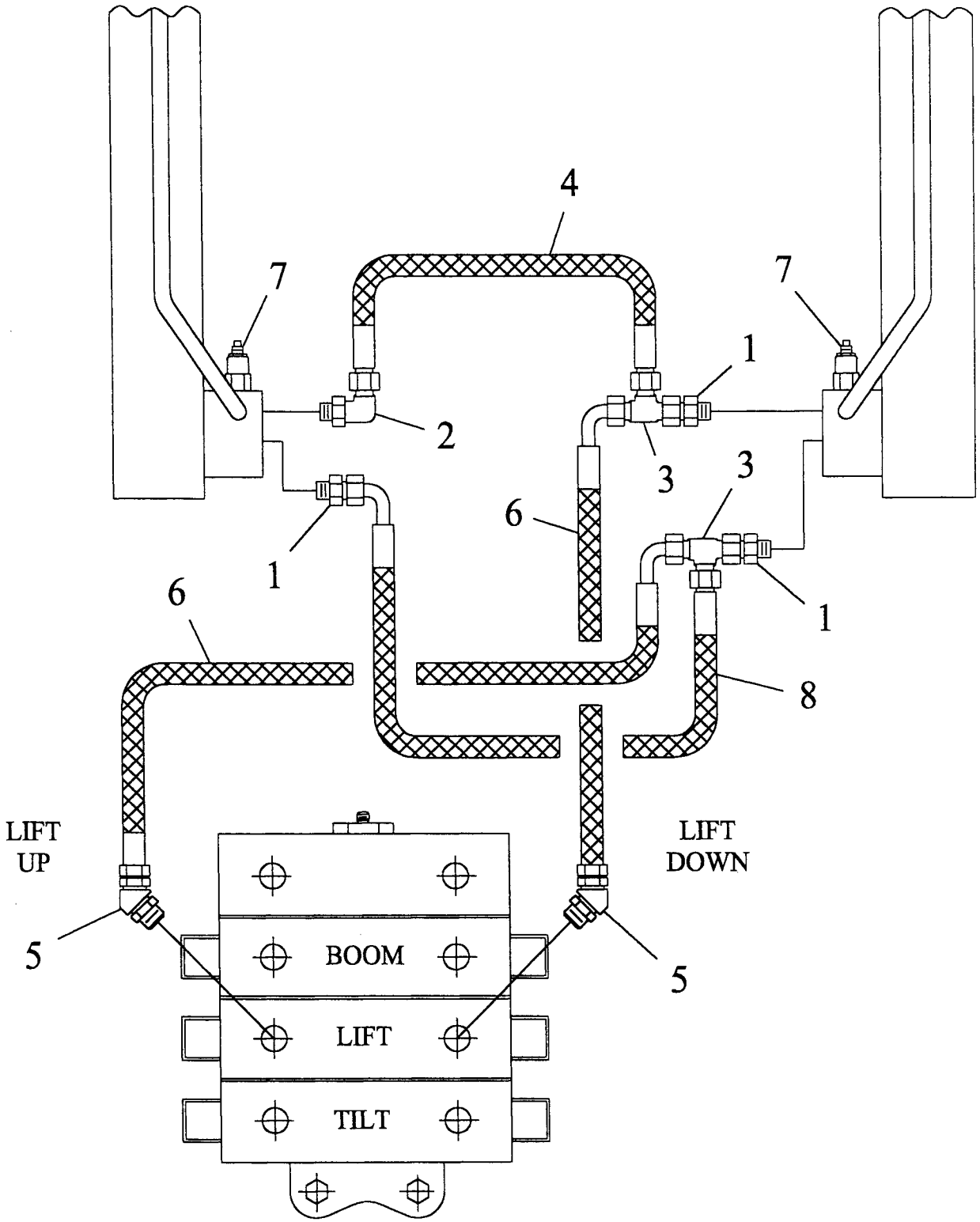
PAGE NUMBER 17

CIRCUIT / PUMP / OIL RESERVOIR TH528

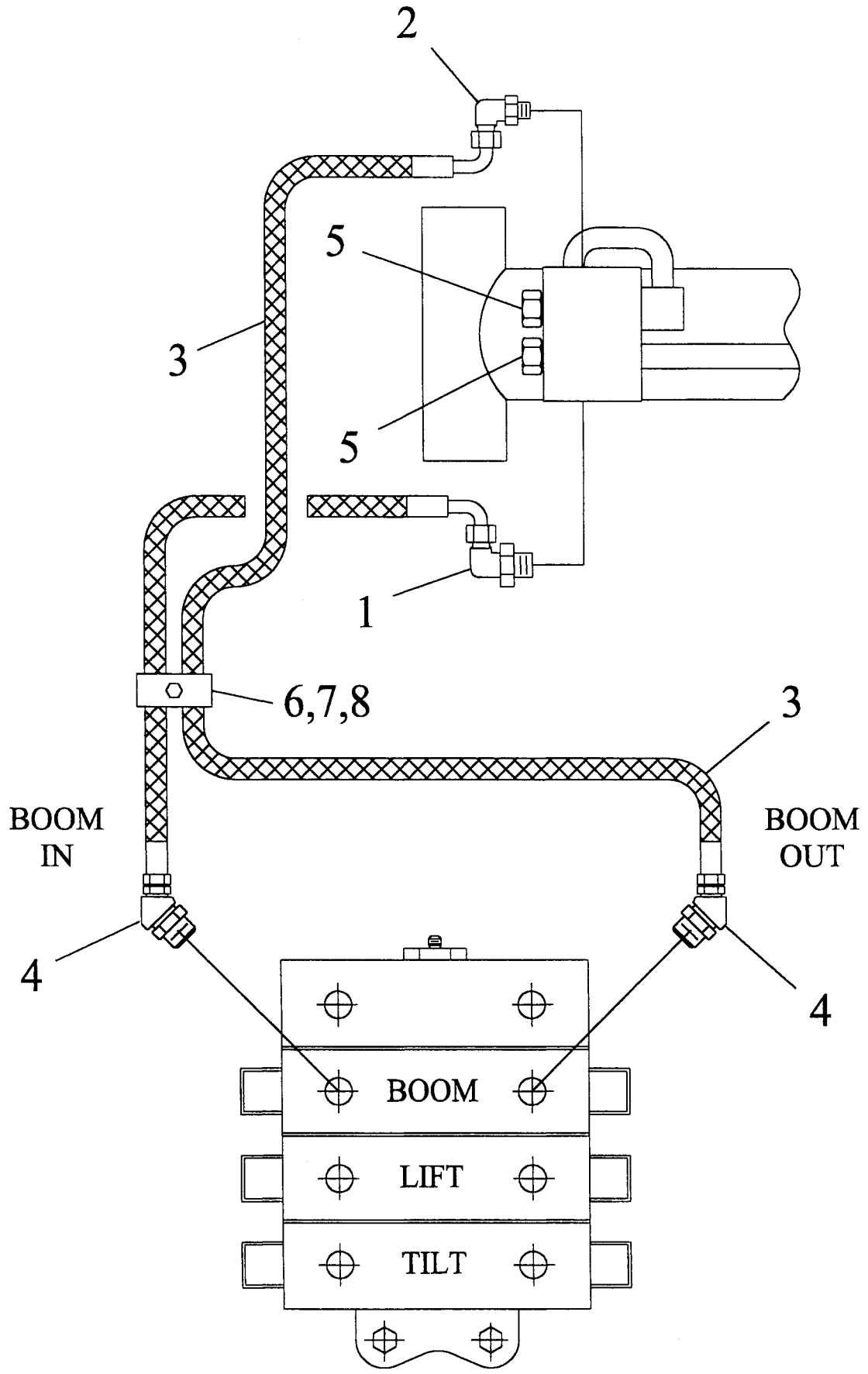
DRAWING NUMBER P4-1849



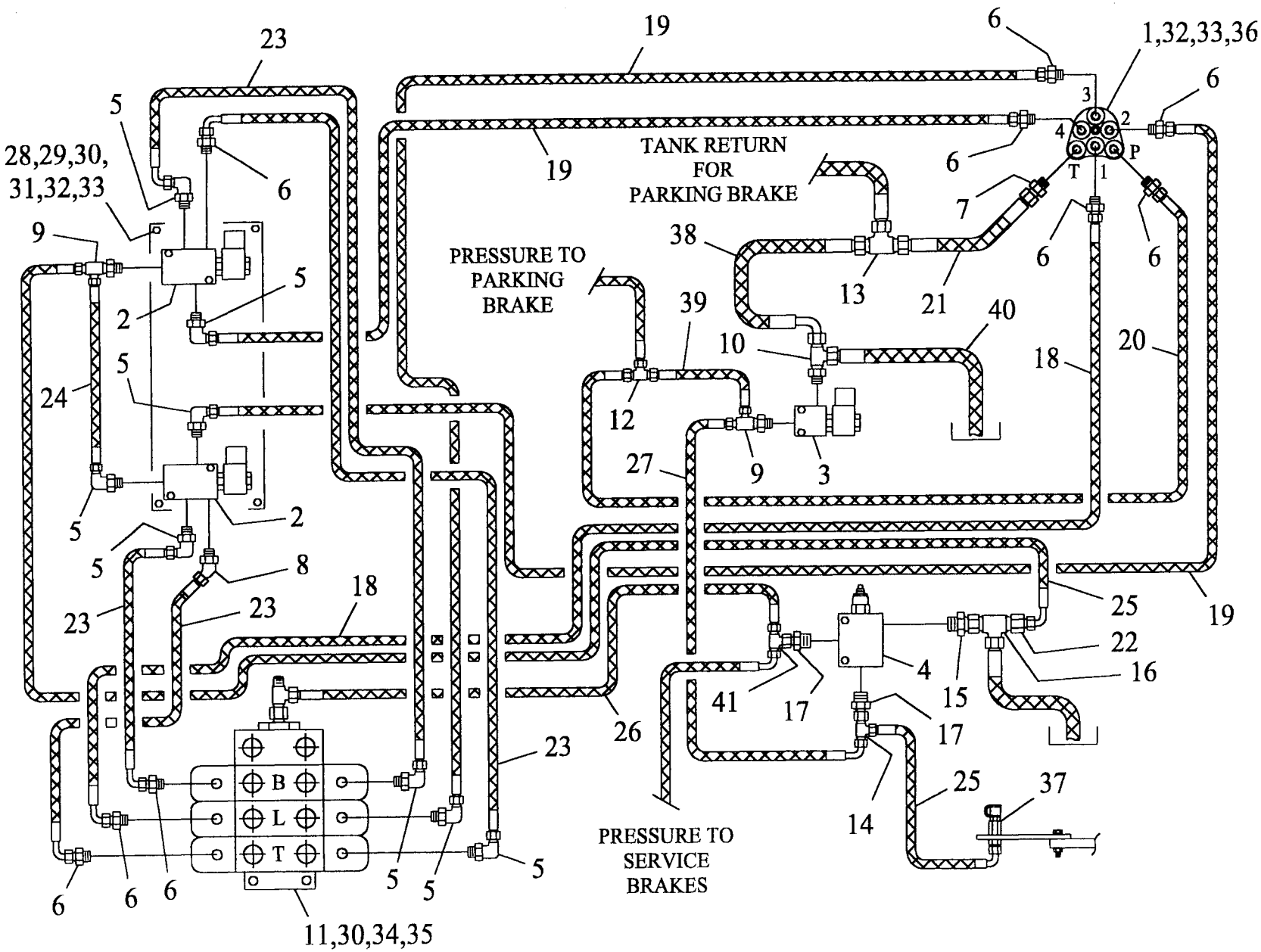
| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 6-6284-07 | MACHINE SCREW #10-32 x 1/2 LG. | 6 |
| 2 | 6-6428-13 | FITTING / 24 NPT x 24 JIC 90 LONG | 1 |
| 3 | 6-6408-07 | FITTING / 16 NPT HOLLOW HEX PLUG | 1 |
| 4 | 6-6427-21 | FITTING / 16 NPT x 16 JIC 90 | 1 |
| 5 | 6-7190-84 | HOSE / 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 | 1 |
| 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 | 6-6452-10 | FITTING / 16 OR x 16 JIC 45 | 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 | 1 |
| 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 | 6-6450-35 | FITTING / 12 OR x 06 JIC STR. | 1 |
| 34 | 6-6453-09 | FITTING / 08 OR x 08 JIC 90 | 2 |
| 35 | 6-6457-06 | FITTING / 08 OR HEX HEAD PLUG | 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 08 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 | 6-7033-180 | HOSE / 06 x 08-90 x 90 LG. | 1 |
| 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 |
| 52 | 7-256-03 | GAGE / RETURN FILTER | 1 |
| 53 | 6-6406-14 | FITTING / 20 NPT x 16 NPT REDUCER | 1 |


4
7
7
1
2
3
3
6
1
6
1
8
LIFT
UP
LIFT
DOWN
5
5
BOOM
LIFT
TILT

| 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 |


2
5
3
5
1
6,7,8
3
BOOM
IN
BOOM
OUT
4
4
BOOM
LIFT
TILT

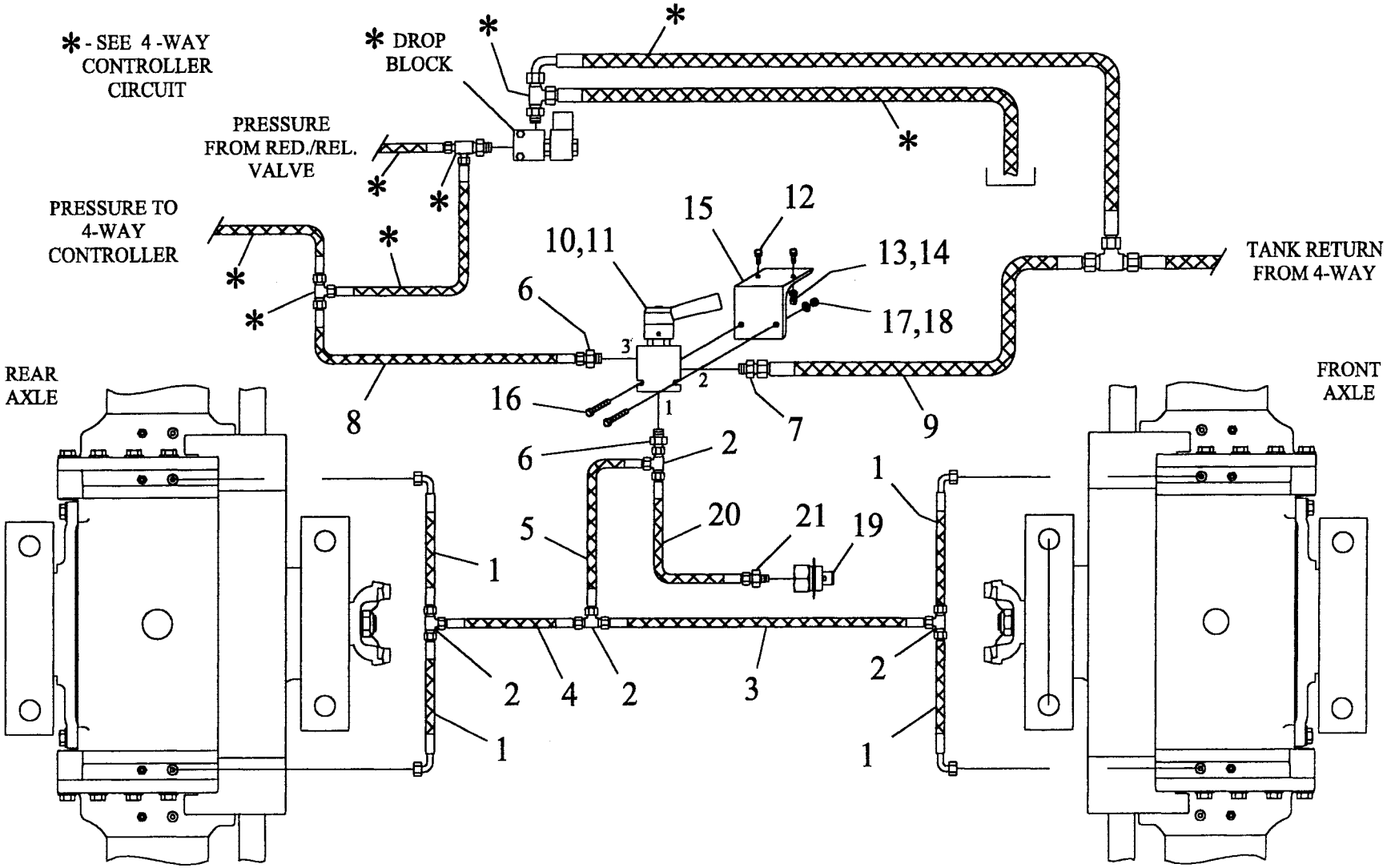
| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 6-6453-10 | FITTING / 10 OR x 08 JIC 90 | 1 |
| 2 | 6-6453-10 | FITTING / 10 OR x 08 JIC 90 | 1 |
| 3 | 6-7044-190 | HOSE / 10 x 08-90 x 95 LG. | 2 |
| 4 | 6-6452-17 | FITTING / 12 OR x 10 JIC 45 | 2 |
| 5 | 7-234-55 | CARTRIDGE / CHECK | 2 |
| 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 |


TANK RETURN FOR PARKING BRAKE
PRESSURE TO PARKING BRAKE
PRESSURE TO SERVICE BRAKES
28,29,30, 31,32,33
1,32,33,36
11,30,34,35
B
L
T
P

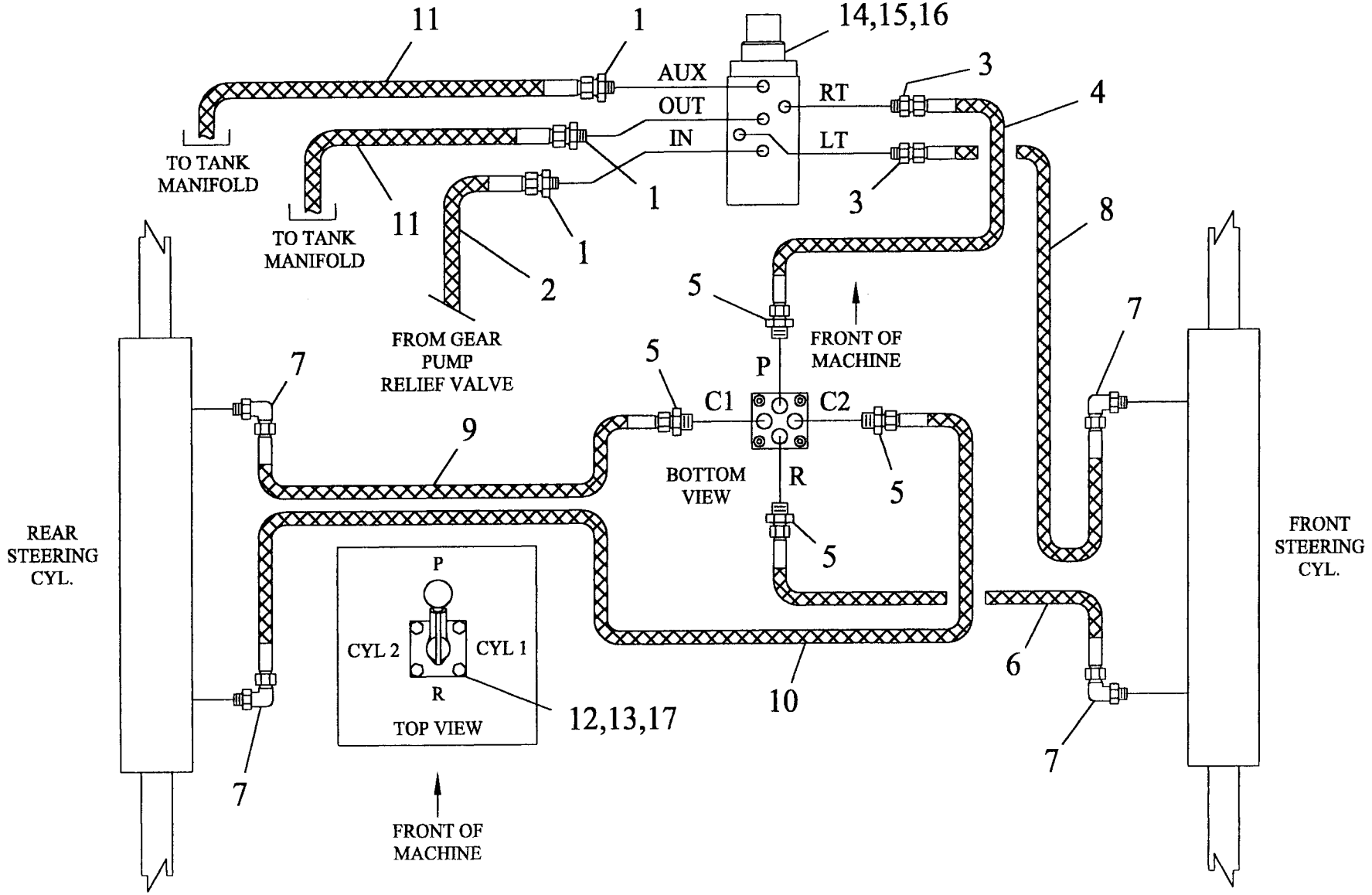
| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-345-62 | 4-WAY CONTROLLER | 1 |
| 2 | 7-244-36 | VALVE / ELECTRIC 4-WAY | 2 |
| 3 | 7-244-50 | VALVE / DROP BLOCK | 1 |
| 4 | 7-234-81 | VALVE / REDUCING-RELIEVING | 1 |
| 5 | 6-6453-04 | FITTING / 06 OR x 04 JIC 90 | 8 |
| 6 | 6-6450-05 | FITTING / 06 OR x 04 JIC STR. | 9 |
| 7 | 6-6450-08 | FITTING / 06 OR x 06 JIC STR. | 1 |
| 8 | 6-6452-19 | FITTING / 06 OR x 04 JIC STR. | 1 |
| 9 | 6-6455-15 | FITTING / 06 OR x 04 JIC RN-TEE | 2 |
| 10 | 6-6455-05 | FITTING / 06 OR x 06 JIC RN-TEE | 1 |
| 11 | 7-200-137 | VALVE ASSEMBLY / 3 SECTION | 1 |
| 12 | 6-6482-03 | FITTING / 04 JIC TEE | 1 |
| 13 | 6-6482-06 | FITTING / 08 JIC TEE | 1 |
| 14 | 6-6481-03 | FITTING / 04 JIC SW-RN-TEE | 1 |
| 15 | 6-6450-12 | FITTING / 08 OR x 08 JIC STR. | 1 |
| 16 | 6-6481-06 | FITTING / 08 JIC SW-RN-TEE | 1 |
| 17 | 6-6450-06 | FITTING / 08 OR x 04 JIC STR. | 2 |
| 18 | 6-7222-216 | HOSE / 04 x 04-90 x 108 LG. | 1 |
| 19 | 6-7202-182 | HOSE / 04 x 04 x 91 LG. | 3 |
| 20 | 6-7202-42 | HOSE / 04 x 04 x 21 LG. | 1 |
| 21 | 6-7013-42 | HOSE / 06 x 08 x 21 LG. | 1 |
| 22 | 6-6495-01 | FITTING / 08 x 04 JIC RED.- EXP. | 1 |
| 23 | 6-7222-44 | HOSE / 04 x 04-90 x 22 LG. | 4 |
| 24 | 6-7002-17 | HOSE / 04 x 04 x 8 1/2 LG. | 1 |
| 25 | 6-7222-62 | HOSE / 04 x 04-90 x 31 LG. | 2 |
| 26 | 6-7012-52 | HOSE / 04 x 06 x 26 LG. | 1 |
| 27 | 6-7222-180 | HOSE / 04 x 04-90 x 90 LG. | 1 |
| 28 | 3-1379 | MOUNTING PLATE | 1 |
| 29 | 6-5206-06 | CAPSCREW 3/8 NC x 3/4 LG. | 4 |
| 30 | 6-6211-06 | LOCKWASHER 3/8 | 8 |
| 31 | 6-5204-14 | CAPSCREW 1/4 NC x 1 3/4 LG. | 4 |
| 32 | 6-6211-04 | LOCKWASHER 1/4 | 8 |
| 33 | 6-6212-04 | FLATWASHER 1/4 | 8 |
| 34 | 6-5206-08 | CAPSCREW 3/8 NC x 1 LG. | 4 |
| 35 | 6-6201-06 | HEX NUT 3/8 NC | 4 |
| 36 | 7-290-03 | CARRIAGE BOLT 1/4 NC x 1 LG. | 4 |
| 37 | 7-256-27 | MALE PRESSURE CHECK | 1 |
| 38 | 6-7243-22 | HOSE / 06-90 x 08 x 11 LG. | 1 |
| 39 | 6-7202-22 | HOSE / 04 x 04 x 11 LG. | 1 |
| 40 | 6-7213-100 | HOSE / 06 x 08 x 50 LG. | 1 |
| 41 | 6-6480-03 | FITTING / 04 JIC SW-BR-TEE | 1 |

CIRCUIT / PARKING BRAKE TH528

DRAWING NUMBER P4-1864



| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 6-7022-16 | HOSE / 04 x 04-90 x 8 LG. | 4 |
| 2 | 6-6482-03 | FITTING / 04 JIC TEE | 4 |
| 3 | 6-7002-180 | HOSE / 04 x 04 x 90 LG. | 1 |
| 4 | 6-7002-100 | HOSE / 04 x 04 x 50 LG. | 1 |
| 5 | 6-7002-100 | HOSE / 04 x 04 x 50 LG. | 1 |
| 6 | 6-6450-05 | FITTING / 06 OR x 04 JIC STR. | 2 |
| 7 | 6-6450-08 | FITTING / 06 OR x 06 JIC STR. | 1 |
| 8 | 6-7002-76 | HOSE / 04 x 04 x 38 LG. | 1 |
| 9 | 6-7013-60 | HOSE / 06 x 08 x 30 LG. | 1 |
| 10 | 7-356-02 | VALVE / PARKING BRAKE | 1 |
| 11 | 7-356-03 | HANDLE KIT / PARKING BRAKE VALVE | 1 |
| 12 | 6-5205-08 | CAPSCREW 5/16 NC x 1 LG. | 2 |
| 13 | 6-6201-05 | HEX NUT 5/16 NC | 2 |
| 14 | 6-6211-05 | LOCKWASHER 5/16 | 2 |
| 15 | 2-1205 | MOUNTING BRACKET / BRAKE VALVE | 1 |
| 16 | 6-5204-16 | CAPSCREW 1/4 NC x 2 LG. | 2 |
| 17 | 6-6201-04 | HEX NUT 1/4 NC | 2 |
| 18 | 6-6211-04 | LOCKWASHER 1/4 | 2 |
| 19 | 7-198-41 | PRESSURE SWITCH / PARKING BRAKE | 1 |
| 20 | 6-7002-17 | HOSE / 04 x 04 x 8 1/2 LG. | 1 |
| 21 | 6-6425-03 | FITTING / 02 NPT x 04 JIC STR. | 1 |

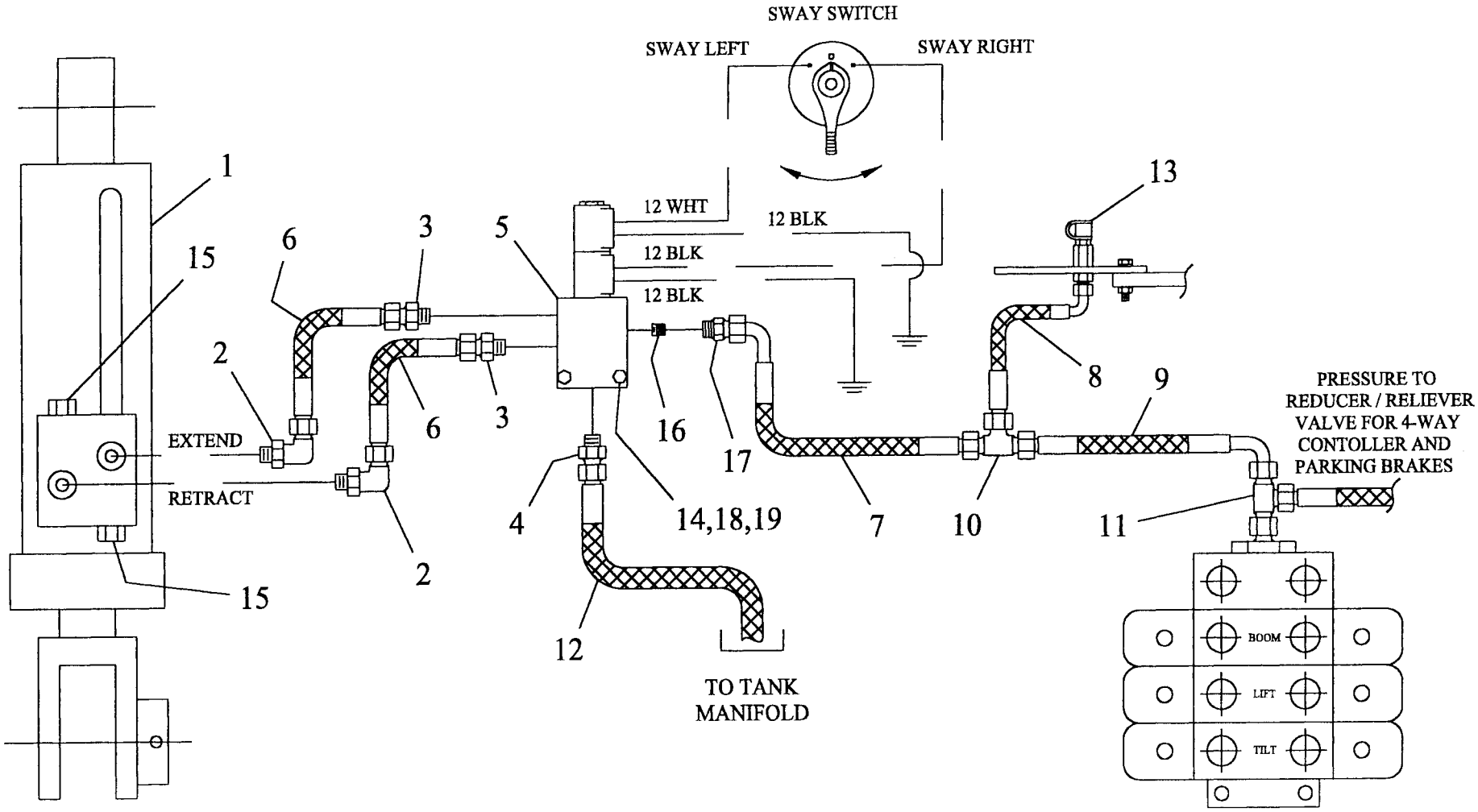

11
1
14,15,16
AUX
OUT
IN
RT
LT
3
4
TO TANK MANIFOLD
TO TANK MANIFOLD
11
1
1
3
2
8
5
FRONT OF MACHINE
FROM GEAR PUMP RELIEF VALVE
7
5
P
C1
C2
9
BOTTOM VIEW
R
5
5
7
REAR STEERING CYL.
5
P
CYL 2
CYL 1
R
TOP VIEW
12,13,17
10
6
7
7
FRONT OF MACHINE
FRONT STEERING CYL.

| 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 | 6-7023-124 | HOSE / 06 x 06-90 x 62 LG. | 1 |
| 5 | 6-6450-09 | FITTING / 08 OR x 06 JIC STR. | 4 |
| 6 | 6-7023-252 | HOSE / 06 x 06-90 x 126 LG. | 1 |
| 7 | 6-6453-06 | FITTING / 06 OR x 06 JIC 90 | 3 |
| 8 | 6-7003-232 | HOSE / 06 x 06 x 116 LG. | 1 |
| 9 | 6-7023-244 | HOSE / 06 x 06-90 x 122 LG. | 1 |
| 10 | 6-7023-272 | HOSE / 06 x 06-90 x 136 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 | 6-5205-12 | CAPSCREW 5/16 NC x 1 1/2 LG. | 4 |
| 15 | 6-6211-05 | LOCKWASHER 5/16 | 4 |
| 16 | 1-1029 | SPACER / ORBITRAL | 4 |
| 17 | 7-359-02 | VALVE / STEERING SELECTOR | 1 |
| 18 | 6-6452-03 | FITTING / 06 OR x 06 JIC 45 | 1 |

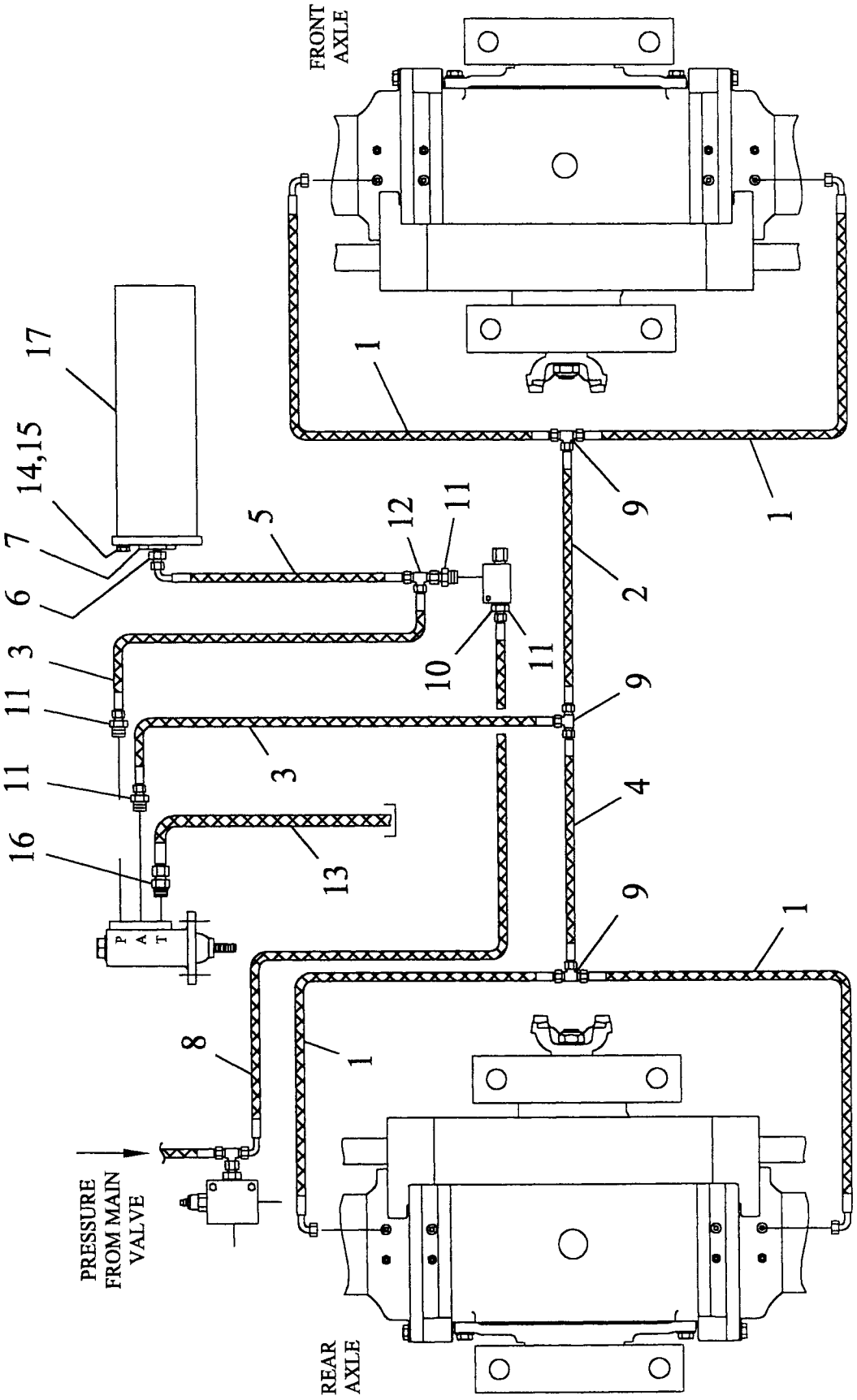
PAGE NUMBER 23

CIRCUIT / SWAY
TH528

DRAWING NUMBER P4-1854

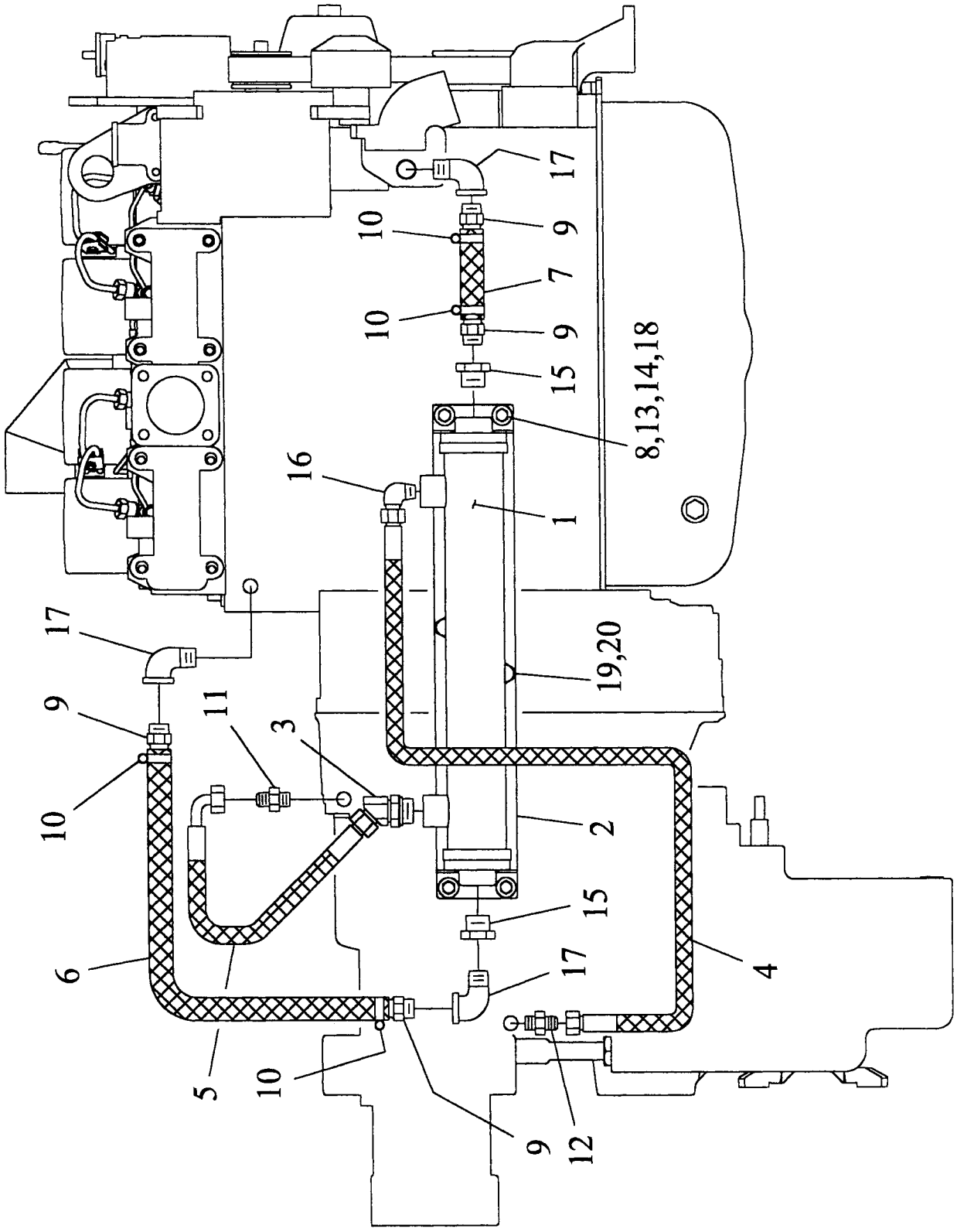


| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-316-194 | CYLINDER / SWAY | REF |
| 2 | 6-6453-06 | FITTING / 06 OR x 06 JIC 90 | 2 |
| 3 | 6-6450-08 | FITTING / 06 OR x 06 JIC STR. | 2 |
| 4 | 6-6450-11 | FITTING / 06 OR x 08 JIC STR. | 1 |
| 5 | 7-244-31 | ELECTRIC VALVE / SWAY | 1 |
| 6 | 6-7003-56 | HOSE / 06 x 06 x 28 LG. | 2 |
| 7 | 6-7023-260 | HOSE / 06 x 06-90 x 130 LG. | 1 |
| 8 | 6-7042-37 | HOSE / 06 x 04-90 x 18 1/2 LG. | 1 |
| 9 | 6-7023-62 | HOSE / 06 x 06-90 x 31 LG. | 1 |
| 10 | 6-6482-05 | FITTING / 06 JIC TEE | 1 |
| 11 | 6-6481-05 | FITTING / 06 JIC SW-RN-TEE | 1 |
| 12 | 6-7024-156 | HOSE / 08 x 08-90 x 78 LG. | 1 |
| 13 | 7-256-27 | MALE PRESSURE CHECK | 1 |
| 14 | 6-6453-09 | FITTING / 08 OR x 08 JIC 90 | 1 |
| 15 | 7-234-18 | CARTRIDGE / CHECK | 2 |
| 16 | 1-1093-1 | RESTRICTOR PLUG (.040) | 1 |
| 17 | 1-1219 | RESTRICTOR FITTING | 1 |



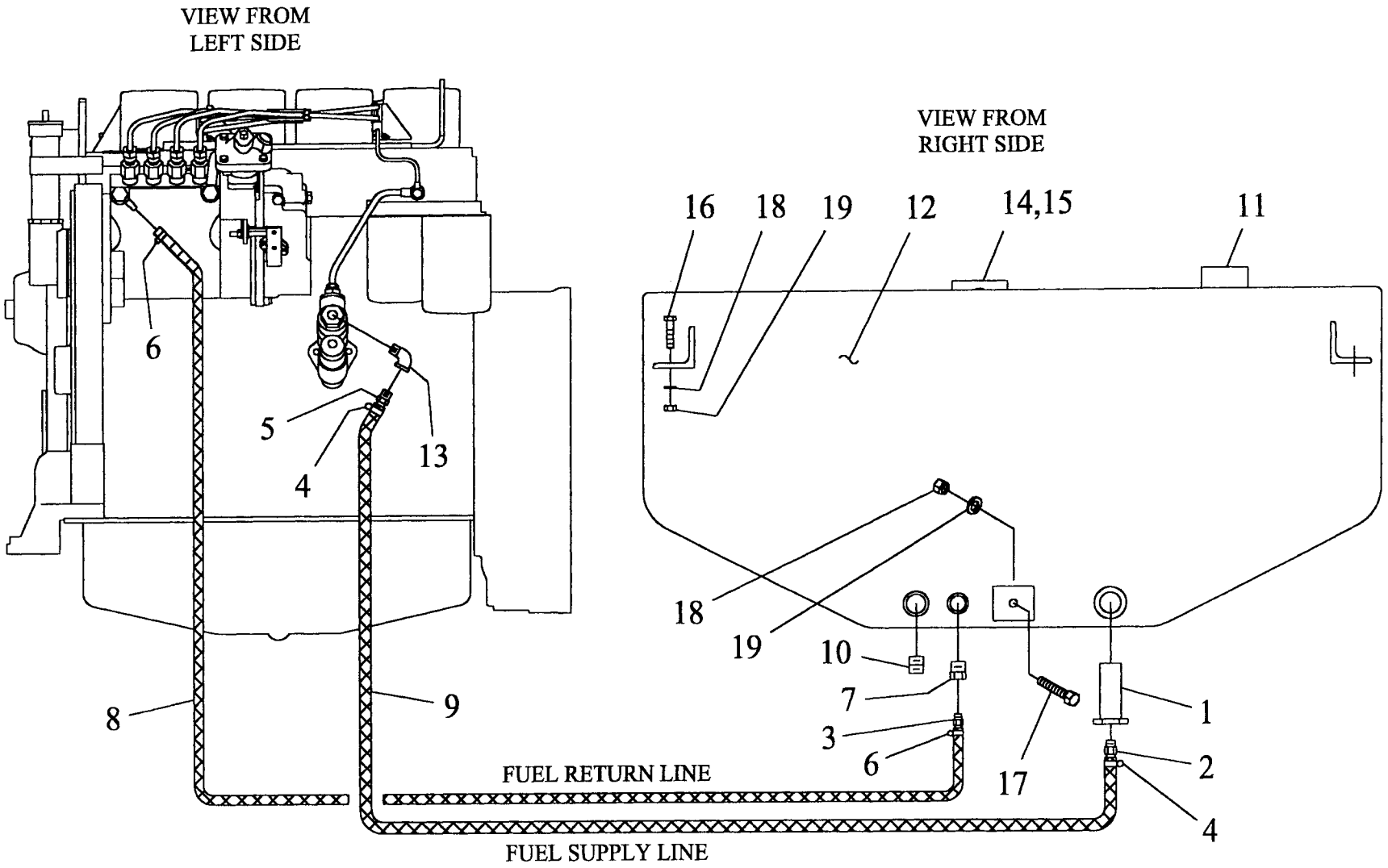

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|---|---|---|---|---|
| 24 | PAGE NUMBER | CIRCUIT / BRAKE TH528 | DRAWING NUMBER | P4-1856 |

| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 6-7022-22 | HOSE / 04 x 04-90 x 11 LG. | 4 |
| 2 | 6-7002-130 | HOSE / 04 x 04 x 65 LG. | 1 |
| 3 | 6-7002-100 | HOSE / 04 x 04 x 50 LG. | 2 |
| 4 | 6-7002-150 | HOSE / 04 x 04 x 75 LG. | 1 |
| 5 | 6-7022-154 | HOSE / 04 x 04-90 x 77 LG. | 1 |
| 6 | 6-6425-03 | FITTING / 02 NPT x 04 JIC STR. | 1 |
| 7 | 1-2014 | FITTING / 20 OR x 02 NPT REDUCER | 1 |
| 8 | 6-7022-186 | HOSE / 04 x 04-90 x 93 LG. | 1 |
| 9 | 6-6482-03 | FITTING / 04 JIC TEE | 3 |
| 10 | 7-234-82 | VALVE ASSEMBLY | 1 |
| 11 | 6-6450-06 | FITTING / 08 OR x 04 JIC STR. | 4 |
| 12 | 6-6481-03 | FITTING / 04 JIC SW-RN-TEE | 1 |
| 13 | 6-7013-120 | HOSE / 06 x 08 x 60 LG. | 1 |
| 14 | 6-5308-08 | CAPSCREW 1/2 NF x 1 LG. | 3 |
| 15 | 6-6211-08 | LOCKWASHER 1/2 | 3 |
| 16 | 6-6450-09 | FITTING / 08 OR x 06 JIC STR. | 1 |
| 17 | 7-256-25 | ACCUMULATOR / BRAKE | 1 |

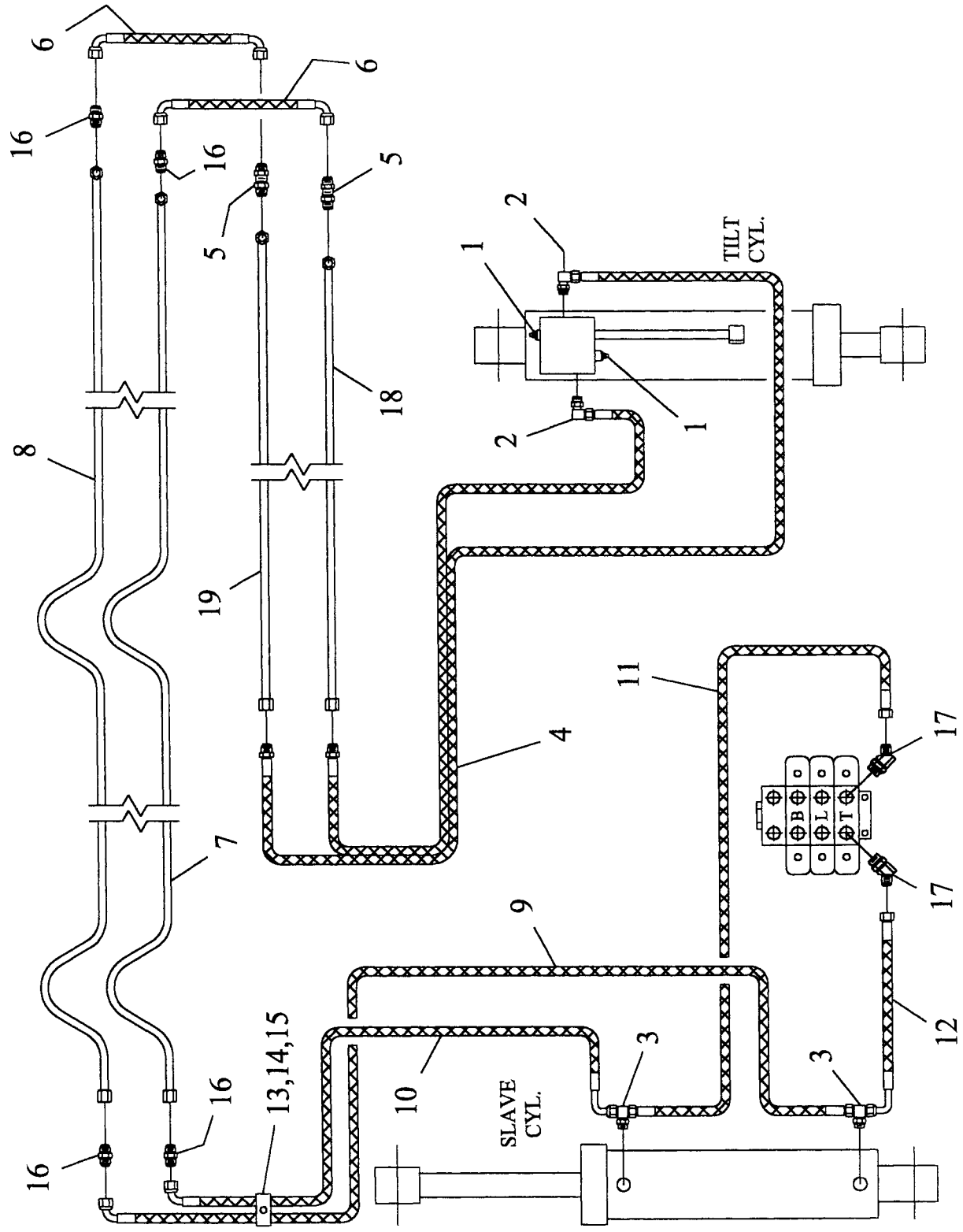



| | | | | |
|---|---|---|---|---|
| 25 | PAGE NUMBER | CIRCUIT / OIL COOLER<br>TH528 | DRAWING NUMBER | P4-1857 |

| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-236-07 | 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 |

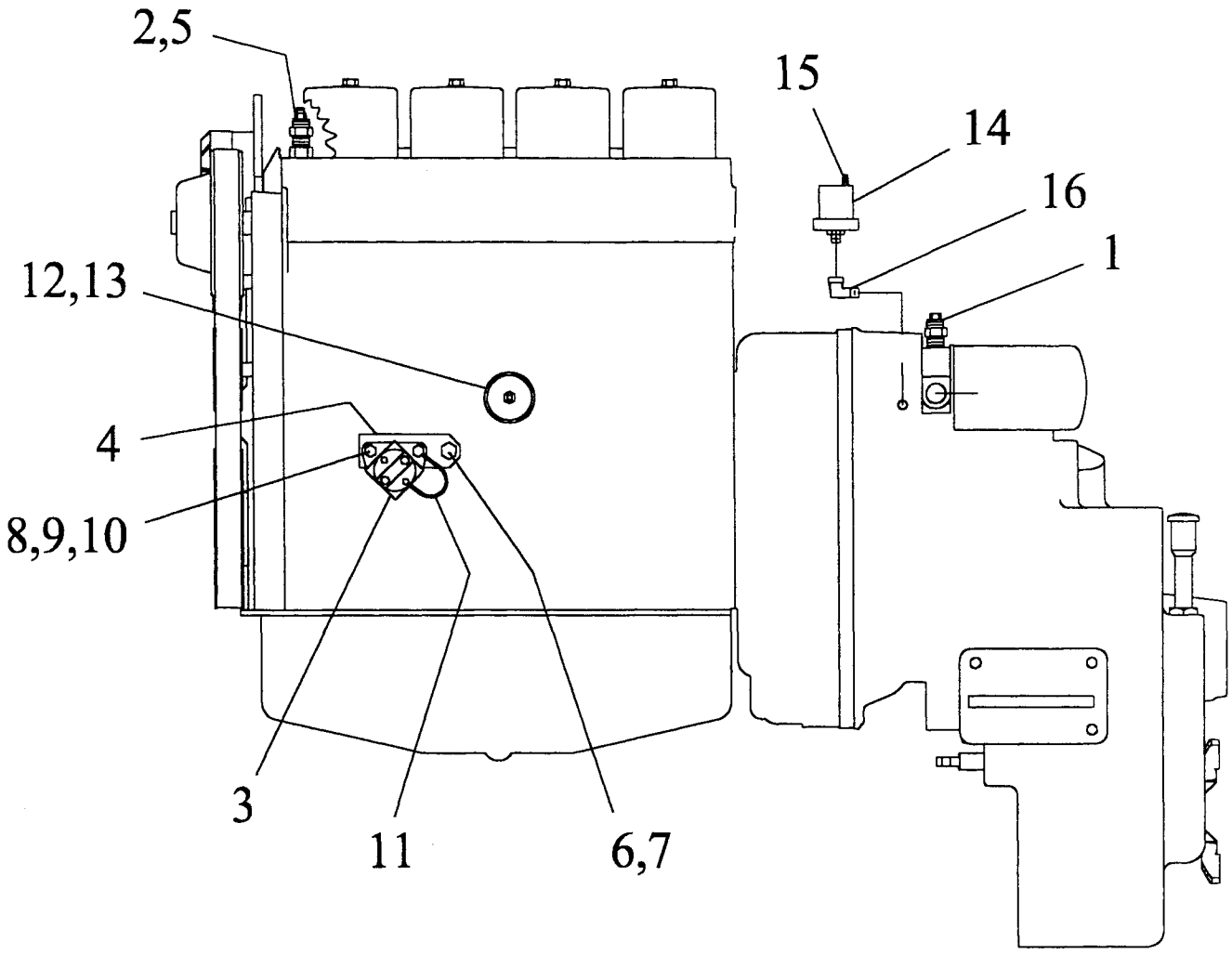

VIEW FROM LEFT SIDE
VIEW FROM RIGHT SIDE
16
18
19
12
14,15
11
6
5
4
13
18
19
10
7
3
6
17
1
2
4
8
9
FUEL RETURN LINE
FUEL SUPPLY LINE

| 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 | 7-264-01 | FILLER CAP / FUEL | 1 |
| 12 | 4-1824 | FUEL TANK | 1 |
| 13 | 6-6437-02 | FITTING / 04 NPT 90 ST. ELB. BLK-P | 1 |
| 14 | 7-172-03 | FUEL SENDER | 1 |
| 15 | 6-6284-07 | 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 |

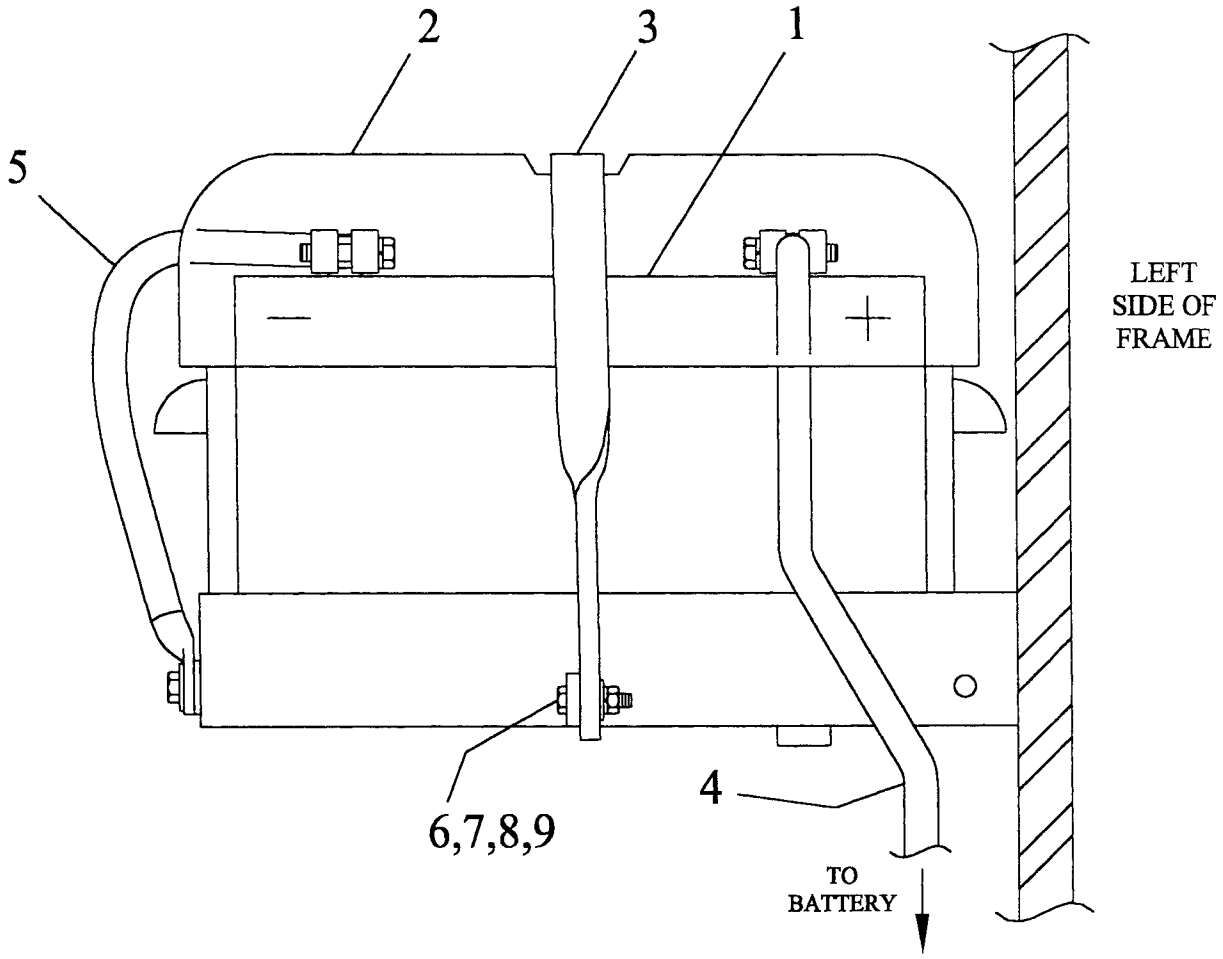



| | | | | |
|---|---|---|---|---|
| 27 | PAGE NUMBER | CIRCUIT / TILT-SLAVE TH528 | DRAWING NUMBER | P4-1865 |

| 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 |

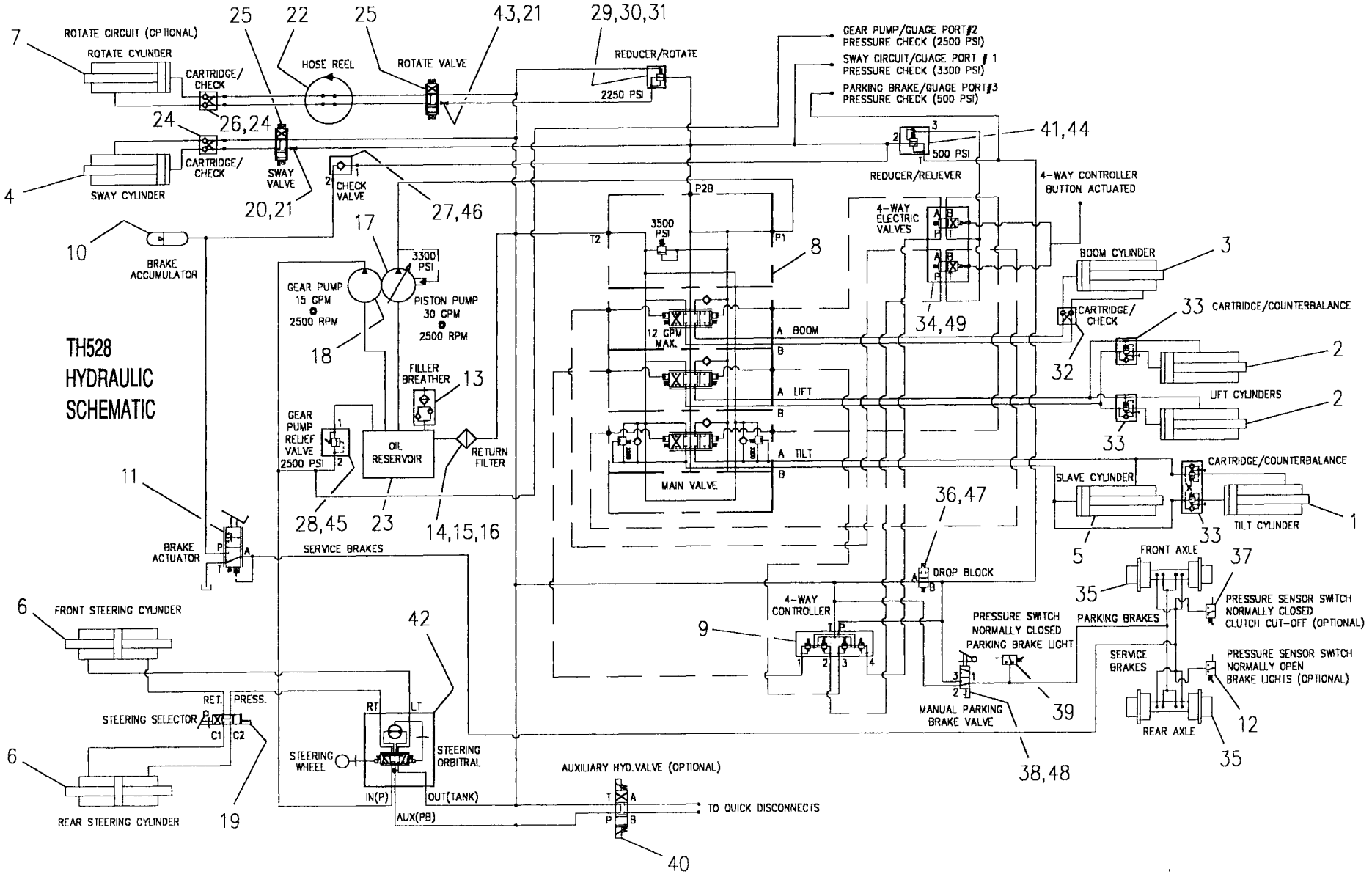



| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-172-17 | SENDER / TRANS. OIL TEMP. | 1 |
| 2 | 7-172-09 | SENDER / ENGINE WATER TEMP. | 1 |
| 3 | 7-183-18 | RELAY / STARTER | 1 |
| 4 | 1-1180 | MOUNT / STARTER RELAY | 1 |
| 5 | 6-6406-04 | FITTING / NPT REDUCER 1/2 x 3/8 | 1 |
| 6 | 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. | 2 |
| 9 | 6-6211-04 | LOCKWASHER 1/4 | 2 |
| 10 | 6-6212-04 | FLATWASHER 1/4 | 2 |
| 11 | 1-1094 | GROUND WIRE / STARTER RELAY | 1 |
| 12 | 7-172-05 | SENDER / ENGINE OIL PRESSURE | 1 |
| 13 | 6-6406-18 | FITTING / 02 M-NPT x 02 F-NPT | 1 |
| 14 | 7-172-16 | SENDER / TRANS. OIL PRESSURE | 1 |
| 15 | 6-6286-06 | HEX NUT #10-32 | 1 |
| 16 | 6-6422-01 | FITTING / 02 NPT 90 BRASS ST. ELB. | 1 |

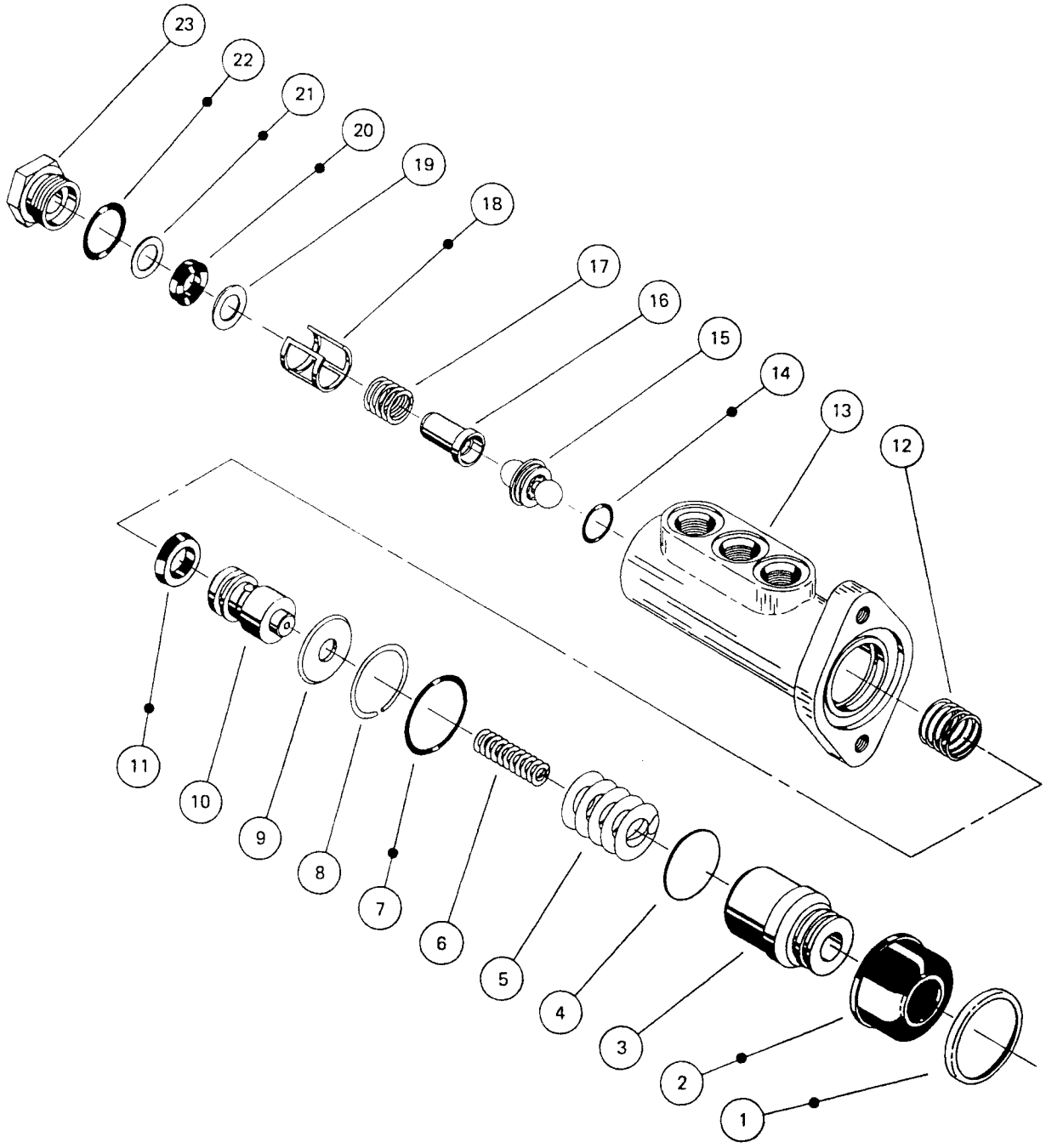



FACING REAR OF MACHINE

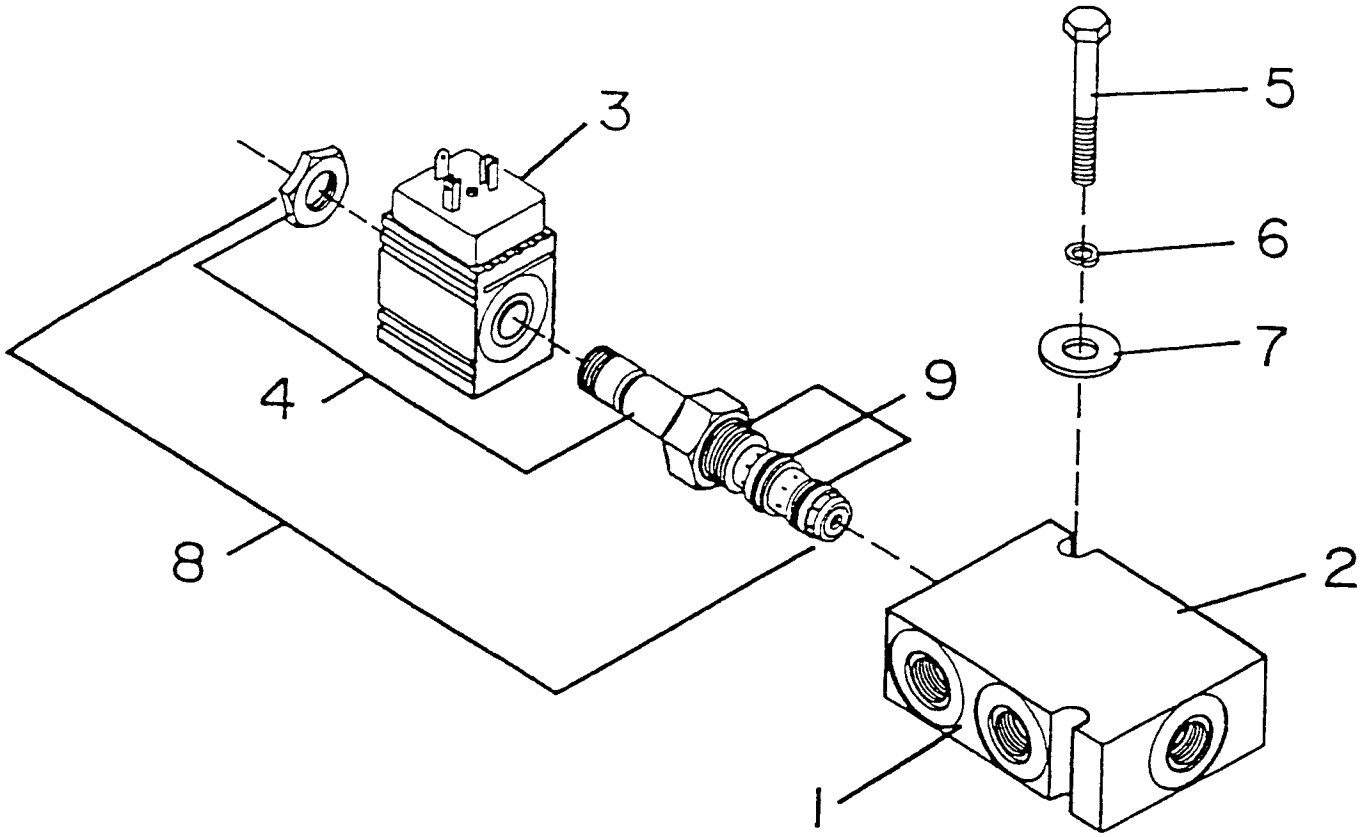
| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-355-01 | BATTERY | 1 |
| 2 | 7-194-60 | BATTERY BOX | 1 |
| 3 | 7-330-03 | TIE DOWN / 24 LG. | 1 |
| 4 | 6-7801-180B | BATTERY CABLE / RED (POSITIVE) | 1 |
| 5 | 6-7806-32B | BATTERY CABLE / BLACK (NEGATIVE) | 1 |
| 6 | 6-5204-10 | CAPSCREW 1/4 NC x 1 1/4 LG. | 1 |
| 7 | 6-6212-04 | FLATWASHER 1/4 | 1 |
| 8 | 6-6211-04 | LOCKWASHER 1/4 | 1 |
| 9 | 6-6201-04 | HEX NUT 1/4 NC. | 1 |


TH528
HYDRAULIC
SCHEMATIC
ROTATE CIRCUIT (OPTIONAL)
ROTATE CYLINDER
CARTRIDGE/ CHECK
HOSE REEL
ROTATE VALVE
REDUCER/ROTATE
2250 PSI
GEAR PUMP/GUAGE PORT#2 PRESSURE CHECK (2500 PSI)
SWAY CIRCUIT/GUAGE PORT # 1 PRESSURE CHECK (3300 PSI)
PARKING BRAKE/GUAGE PORT#3 PRESSURE CHECK (500 PSI)
SWAY CYLINDER
SWAY VALVE
CHECK VALVE
BRAKE ACCUMULATOR
GEAR PUMP 15 GPM @ 2500 RPM
PISTON PUMP 30 GPM @ 2500 RPM
3300 PSI
3500 PSI
500 PSI
REDUCER/RELIEVER
4-WAY ELECTRIC VALVES
4-WAY CONTROLLER BUTTON ACTUATED
P28
T2
P1
12 GPM MAX.
A BOOM
A LIFT
A TILT
MAIN VALVE
BOOM CYLINDER
CARTRIDGE/ CHECK
CARTRIDGE/COUNTERBALANCE
LIFT CYLINDERS
SLAVE CYLINDER
TILT CYLINDER
FILLER BREATHER
GEAR PUMP RELIEF VALVE 2500 PSI
OIL RESERVOIR
RETURN FILTER
BRAKE ACTUATOR
SERVICE BRAKES
DROP BLOCK
4-WAY CONTROLLER
PRESSURE SWITCH NORMALLY CLOSED PARKING BRAKE LIGHT
MANUAL PARKING BRAKE VALVE
FRONT AXLE
PARKING BRAKES
PRESSURE SENSOR SWITCH NORMALLY CLOSED CLUTCH CUT-OFF (OPTIONAL)
SERVICE BRAKES
PRESSURE SENSOR SWITCH NORMALLY OPEN BRAKE LIGHTS (OPTIONAL)
REAR AXLE
FRONT STEERING CYLINDER
REAR STEERING CYLINDER
STEERING SELECTOR
RET.
PRESS.
C1
C2
STEERING WHEEL
STEERING ORBITRAL
RT
LT
IN(P)
OUT(TANK)
AUX(PB)
AUXILIARY HYD.VALVE (OPTIONAL)
TO QUICK DISCONNECTS
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| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-316-192 | CYLINDER / TILT | REF |
| 2 | 7-316-190 | 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 | 7-229-361 | CYLINDER / STEERING (2) | REF |
| 7 | 7-316-05 | CYLINDER / ROTATE | REF |
| 8 | 7-200-137 | VALVE ASSEMBLY / 3 SECTION | REF |
| 9 | 7-345-62 | CONTROLLER / 4-WAY | REF |
| 10 | 7-256-25 | ACCUMULATOR / BRAKE | REF |
| 11 | 7-198-39 | 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 | 7-256-03 | 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 / STRAIGHT | REF |
| 21 | 1-1093-1 | RESTRICTOR PLUG (.040) (2) | 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 | 7-234-82 | VALVE / CHECK | 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 | 7-244-36 | VALVE ASSY / ELECTRIC / 4-WAY (2) | REF |
| 35 | 7-229-360 | AXLE ASSEMBLY (2) | REF |
| 36 | 7-244-50 | VALVE / PILOT RELIEF | REF |
| 37 | 7-198-41 | PRESSURE SWITCH / CLUTCH CUT-OFF | REF |
| 38 | 7-356-02 | VALVE / MANUAL PARKING BRAKE | REF |
| 39 | 7-198-41 | PRESSURE SWITCH / PARKING BRK. LT. | REF |
| 40 | 7-366-01 | VALVE ASSY / AUXILIARY HYDRAULICS | REF |
| 41 | 7-234-81 | VALVE ASSY / REDUCER-RELIEVER | REF |
| 42 | 7-256-30 | ORBITRAL / STEERING | REF |
| 43 | 1-1221 | RESTRICTOR FITTING / 90 | REF |
| 44 | 7-234-13 | CARTRIDGE / REDUCING RELIEVING | REF |
| 45 | 7-356-11 | CARTRIDGE / RELIEF / GEAR PUMP | REF |
| 46 | 7-234-80 | CARTRIDGE / CHECK | REF |
| 47 | 7-244-08 | CARTRIDGE / PILOT RELIEF | REF |
| 48 | 7-356-13 | CARTRIDGE / PARKING BRAKE VALVE | REF |
| 49 | 7-244-42 | CARTRIDGE / DIRECTIONAL (2) | REF |


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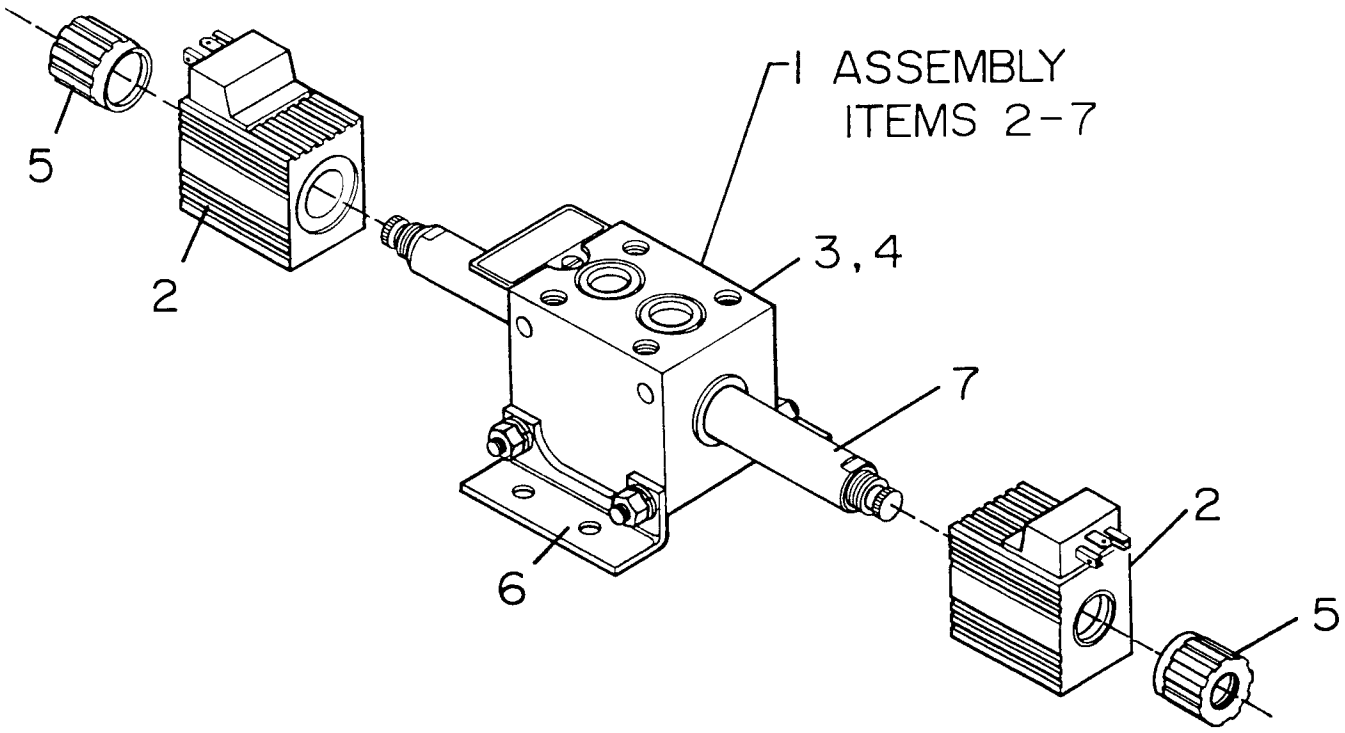
| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-198-09 | RING | 1 |
| 2 | 7-198-20 | BOOT | 1 |
| 3 | 7-198-04 | PISTON | 1 |
| 4 | | SHIM / ITEMS 25-28 | |
| 5 | 7-198-10 | SPRING | 1 |
| 6 | | SPRING / NOT USED THIS MODEL | |
| 7 | 7-198-21 | O-RING | 1 |
| 8 | 7-198-11 | RETAINER RING | 1 |
| 9 | 7-198-22 | WASHER | 1 |
| 10 | 7-198-12 | PISTON | 1 |
| 11 | 7-198-13 | CUP | 1 |
| 12 | 7-198-14 | SPRING | 1 |
| 13 | 7-198-30 | HOUSING | 1 |
| 14 | 7-198-15 | O-RING | 1 |
| 15 | 7-198-35 | VALVE & BALL ASSEMBLY | 1 |
| 16 | 7-198-27 | GUIDE | 1 |
| 17 | 7-198-17 | SPRING | 1 |
| 18 | 7-198-16 | SPACER SHEEVE | 1 |
| 19 | 7-198-28 | WASHER | 1 |
| 20 | 7-198-18 | CUP | 1 |
| 21 | 7-198-29 | BACK-UP RING | 1 |
| 22 | 7-198-19 | O-RING | 1 |
| 23 | 7-198-31 | 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 | |



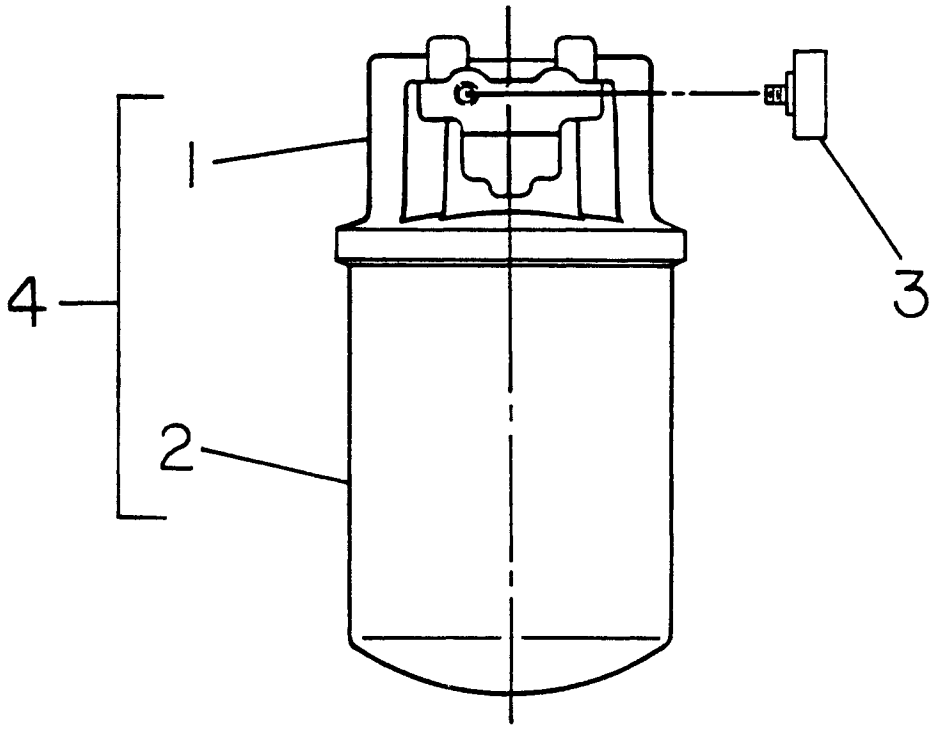

ASSEMBLY

ITEMS 2,3,4

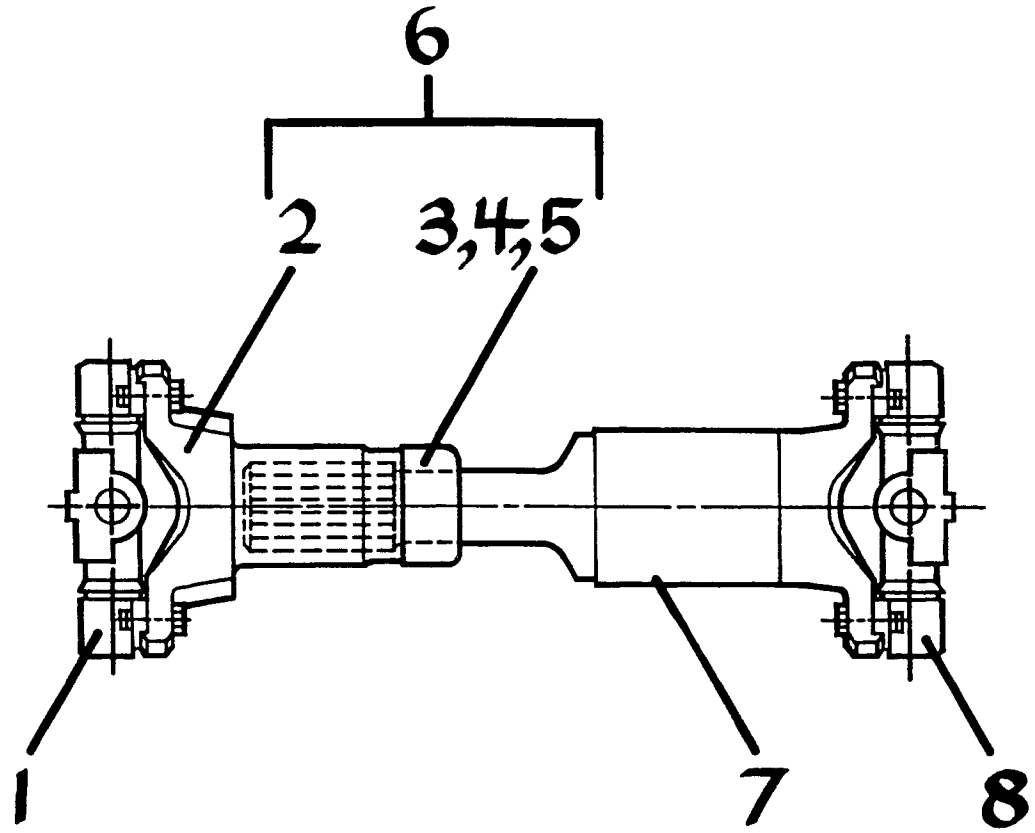
| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-244-36 | ELECTRIC VALVE ASSY / 4-WAY | 1 |
| 2 | 7-244-35 | VALVE BODY | 1 |
| 3 | 7-244-43 | COIL / DIN | 1 |
| 4 | 7-244-42 | CARTRIDGE | 1 |
| 5 | 6-5204-12 | CAPSCREW 1/4 NC x 1 1/2 LG. | 2 |
| 6 | 6-6211-04 | LOCKWASHER 1/4 | 2 |
| 7 | 6-6212-04 | FLATWASHER 1/4 | 2 |
| 8 | 7-244-34 | SOLENOID CARTRIDGE ASSY / DIN | REF |
| 9 | 7-244-41 | SEAL KIT | 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 |

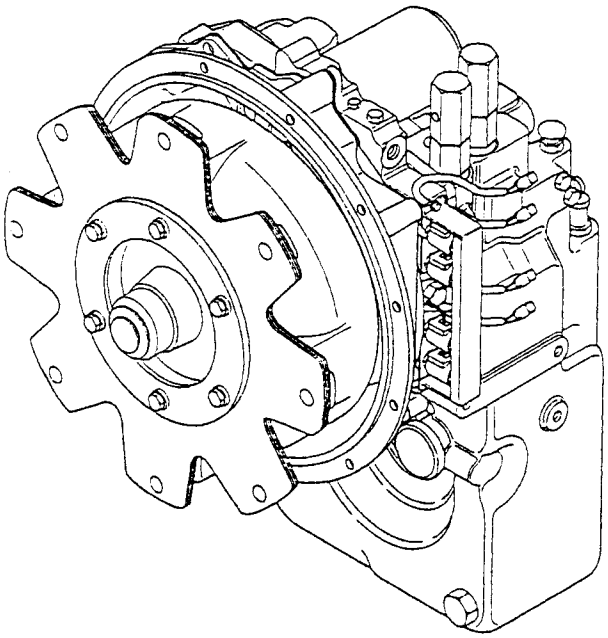



| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-256-24 | HEAD | 1 |
| 2 | 7-256-05 | ELEMENT & O-RING | 1 |
| 3 | 7-256-03 | GAGE | 1 |
| 4 | 7-256-23 | FILTER ASSEMBLY | 1 |




| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-196-42 | CROSS & BEARING ASSEMBLY | 1 |
| 2 | 7-196-14 | SLIP YOKE | 1 |
| 3 | 7-196-15 | RETAINING CAP | 1 |
| 4 | 7-196-16 | RETAINING WASHER | 1 |
| 5 | 7-196-17 | FELT WASHER | 1 |
| 6 | 7-196-13 | SLIP YOKE ASSY (ITEMS 2 THRU 5) | 1 |
| 7 | 7-196-43 | TUBE WELDMENT | 1 |
| 8 | 7-196-42 | CROSS & BEARING ASSEMBLY | 1 |
| 9 | 7-196-41 | DRIVESHAFT ASSY (ITEMS 1 THRU 8) | REF |

# TRANSMISSION PARTS BOOK TH528



DATE: 7-9-99

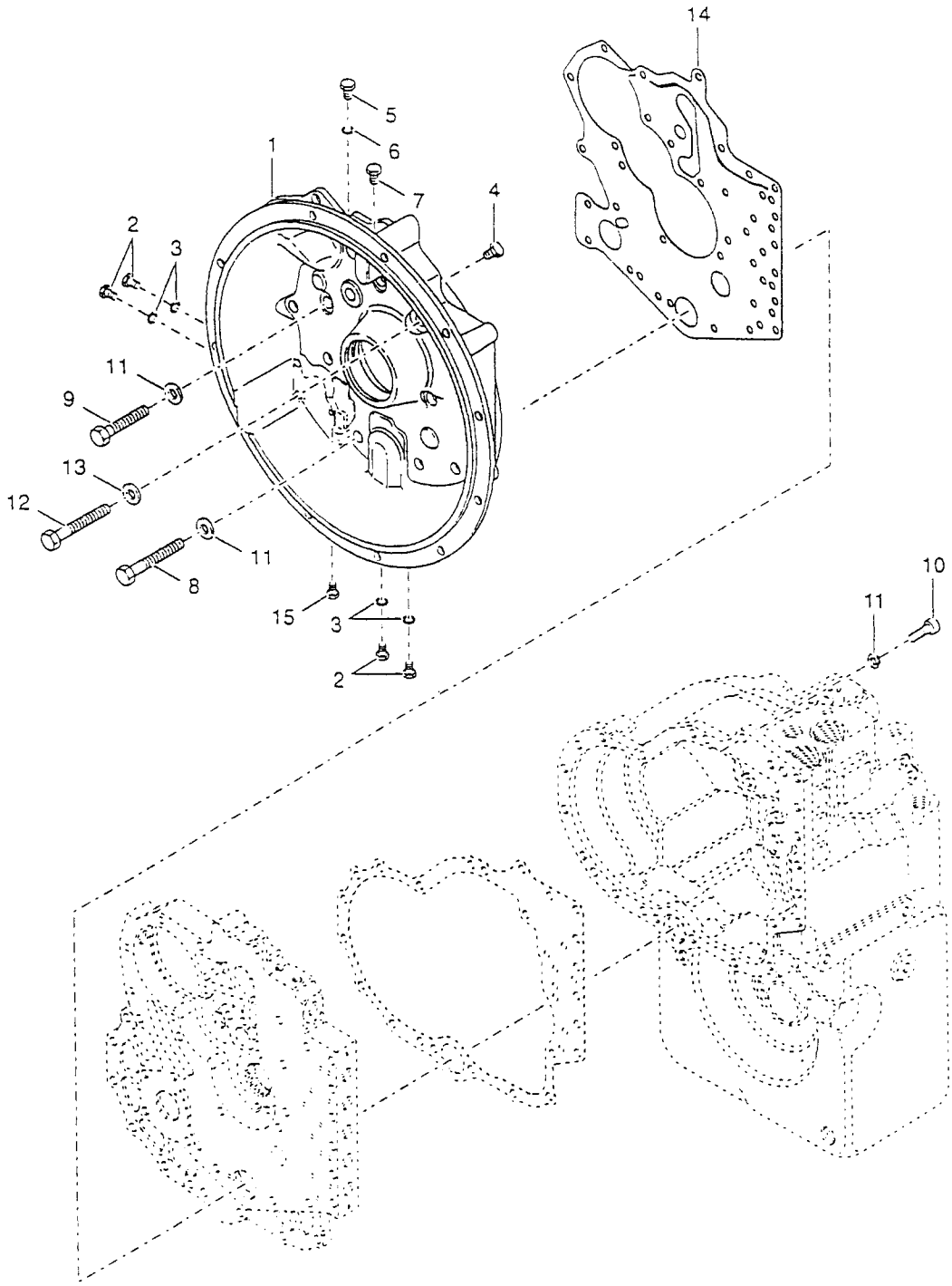
CLARK T12000 SERIES

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

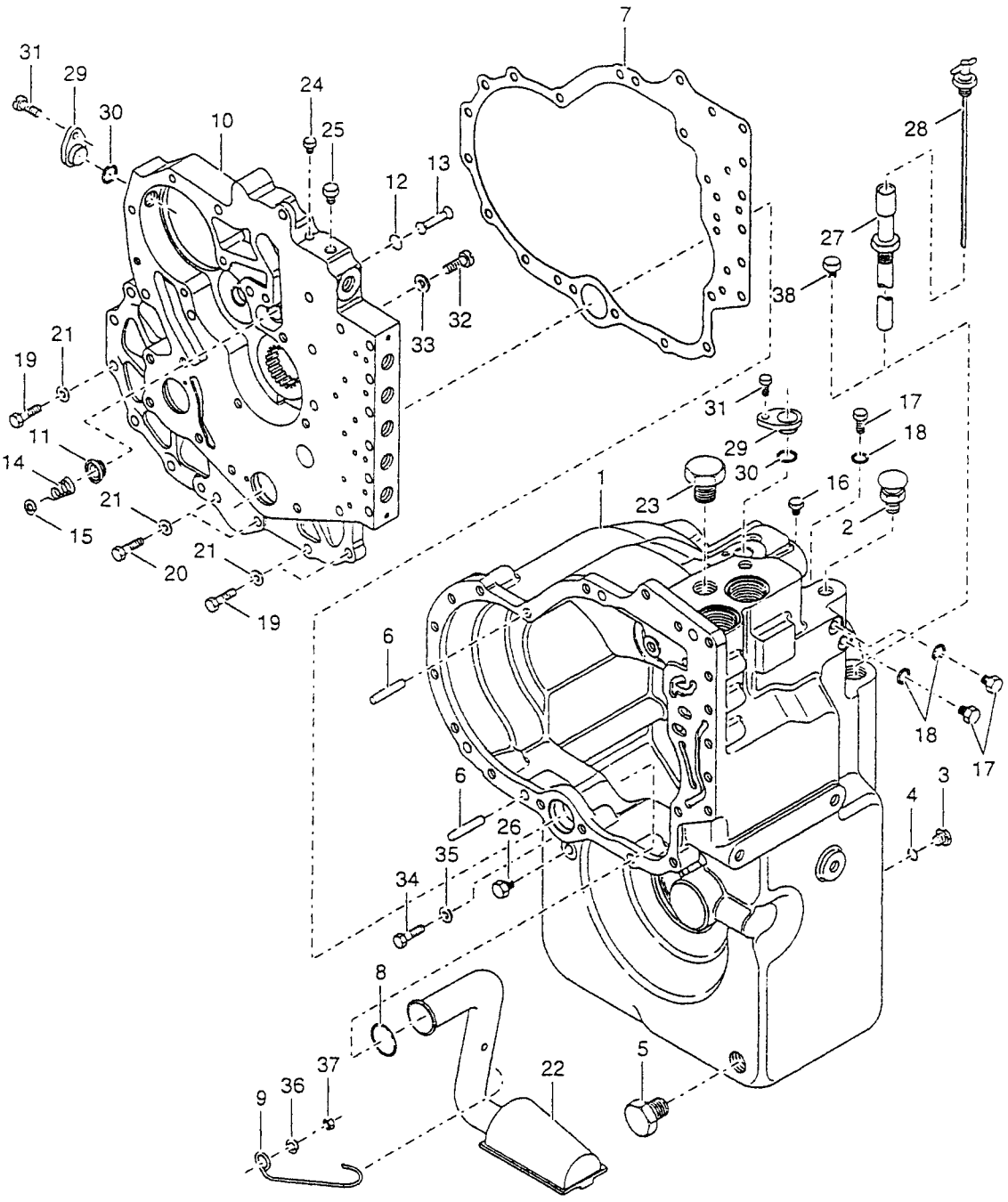
# INDEX


| PAGE | DESCRIPTION | DRAWING |
|---|---|---|
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| 2 | TRANSMISSION CASE AND PLATE GROUP | P1-1245 |
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| 11 | OUTPUT SHAFT GROUP | P1-1254 |
| 12 | ELECTRIC CONTROL GROUP | P1-1255 |
| 13 | DRIVE PLATE GROUP | P1-1256 |

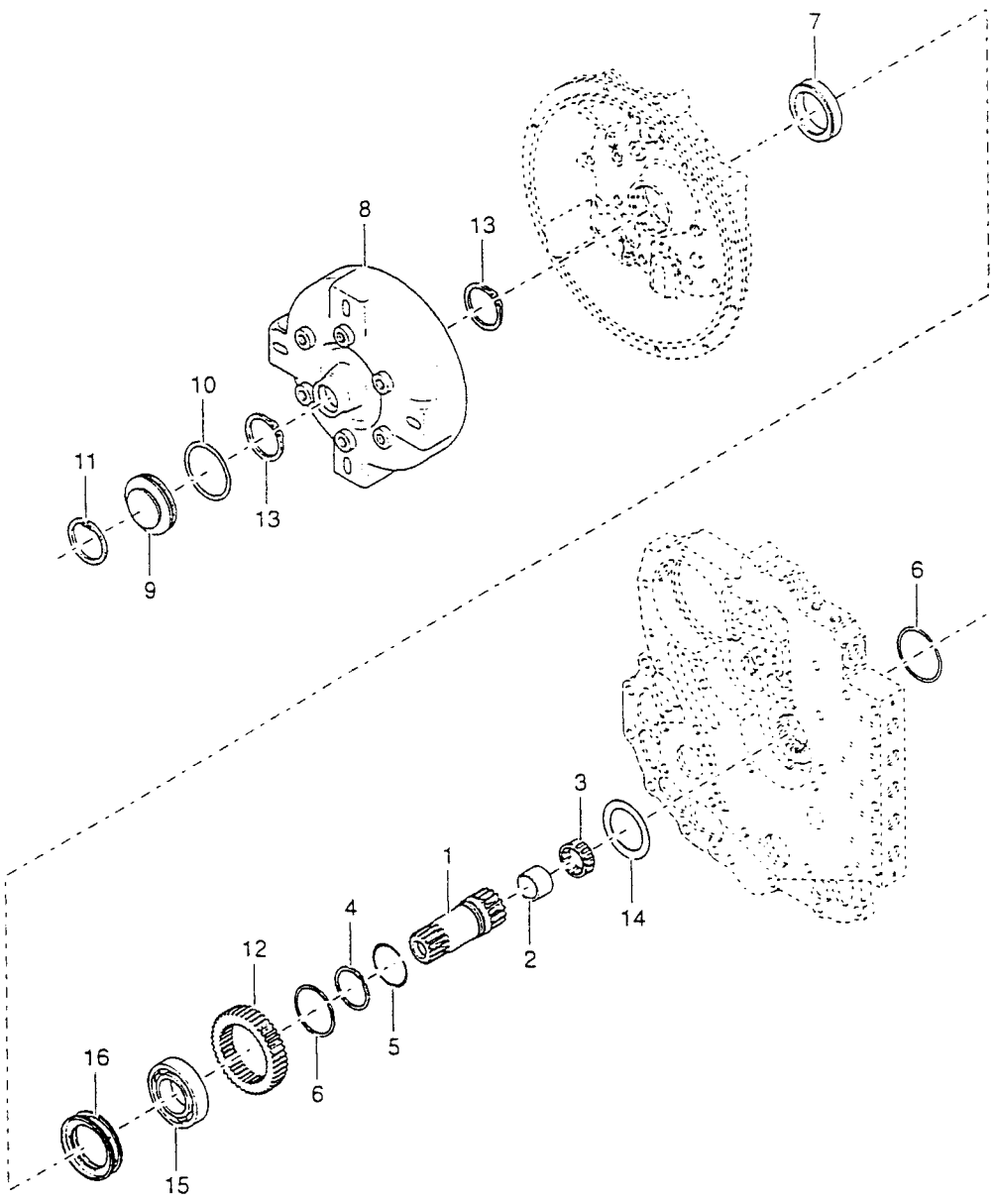



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|---|---|---|---|---|
| 1 | PAGE NUMBER | CONVERTER HOUSING GROUP<br>T12000 SERIES TRANSMISSION / TH528 | DRAWING NUMBER | P1-1244 |

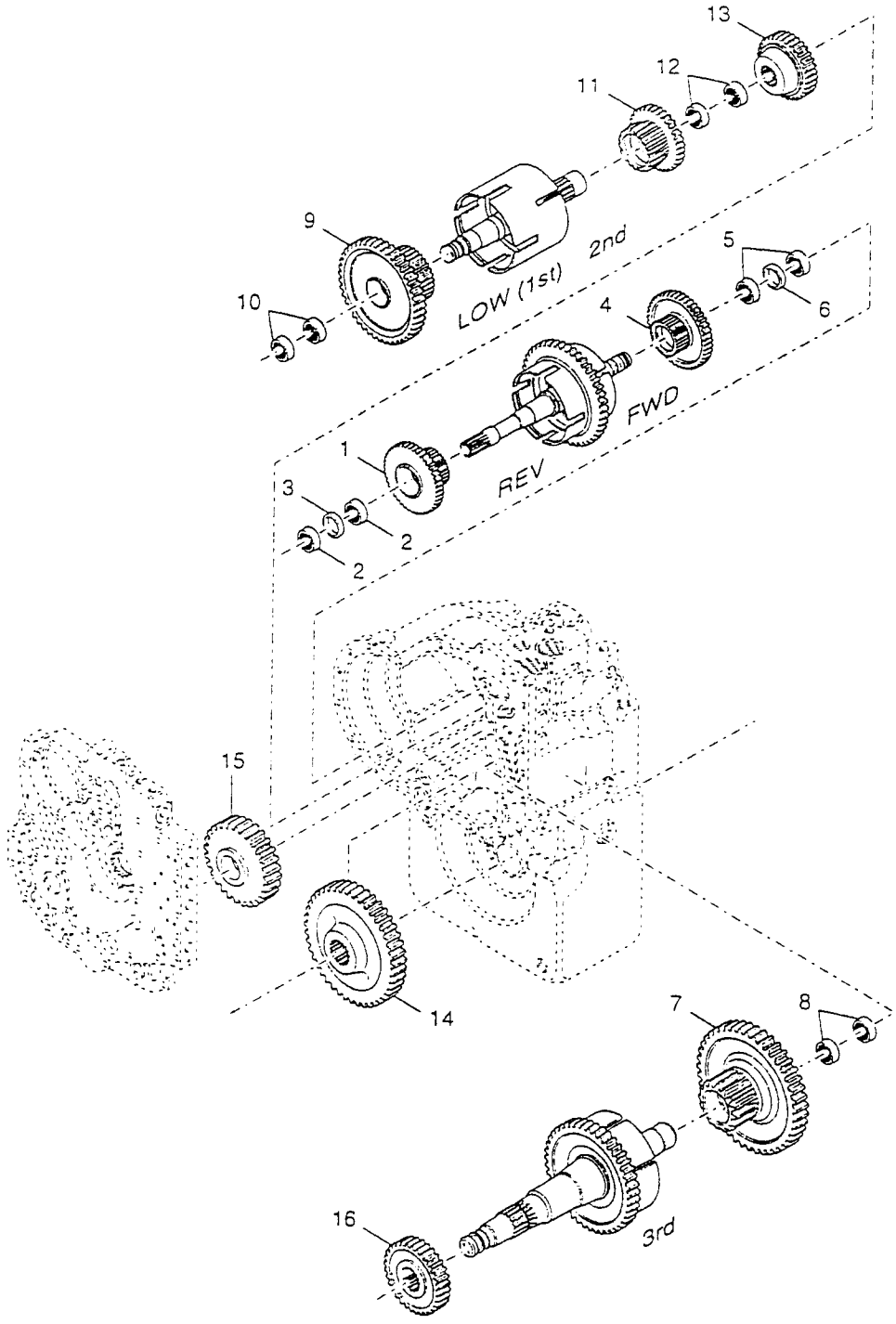
| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-126-384 | CONVERTER HOUSING | 1 |
| 2 | 7-126-385 | PLUG (INCLUDES ITEM 3) | 4 |
| 3 | 7-126-386 | O-RING | 4 |
| 4 | 7-126-387 | PLUG | 1 |
| 5 | 7-126-385 | PLUG (INCLUDES ITEM 6) | 1 |
| 6 | 7-126-386 | O-RING | 1 |
| 7 | 7-126-04 | 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 |

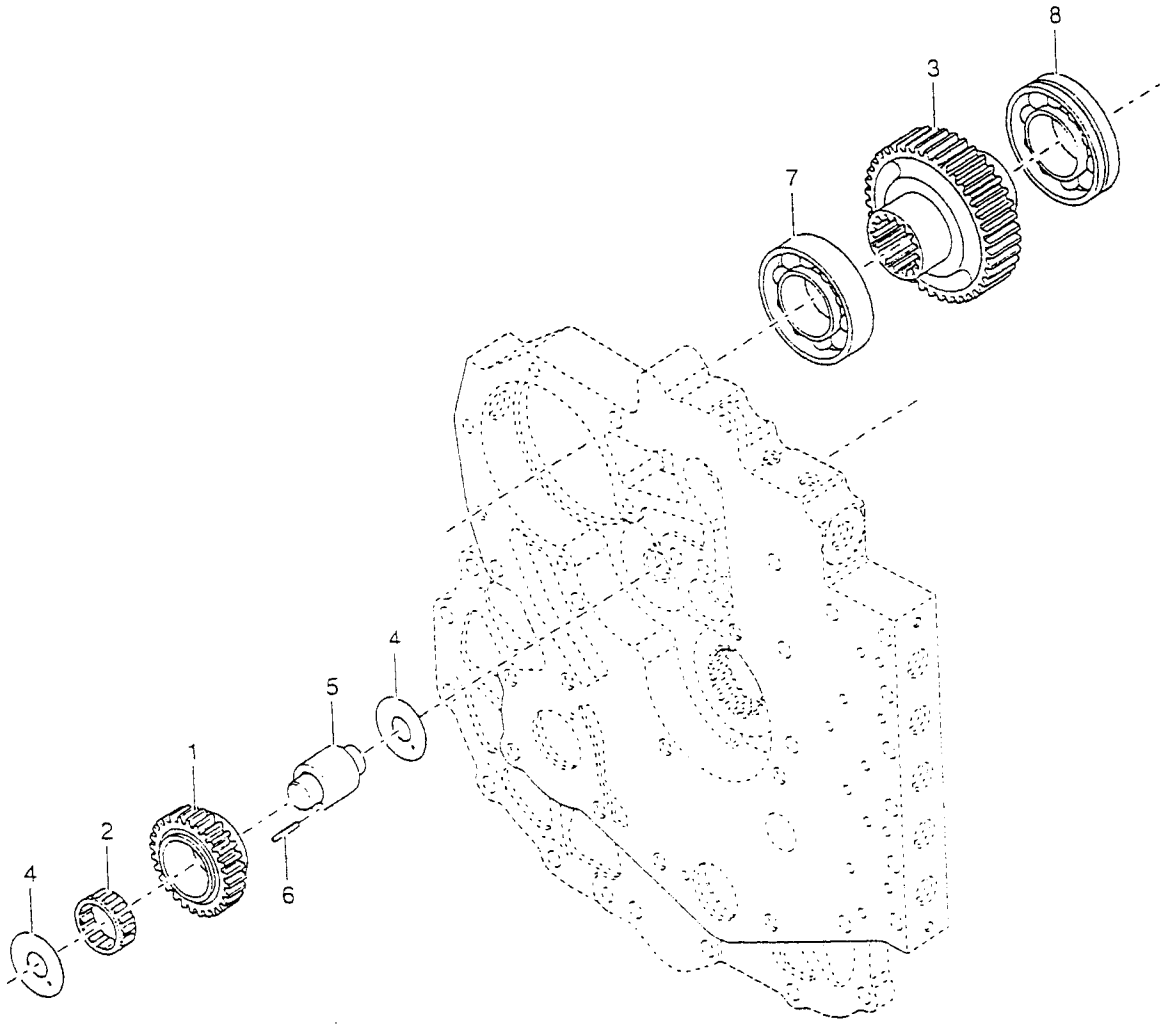

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| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-126-411 | STATOR SUPPORT ASSY (INCL. ITEMS 2-3) | 1 |
| 2 | 7-126-412 | BUSHING | 1 |
| 3 | 7-126-413 | BEARING | 1 |
| 4 | 7-126-414 | STATOR SUPPORT PISTON RING | 1 |
| 5 | 7-126-415 | 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 |



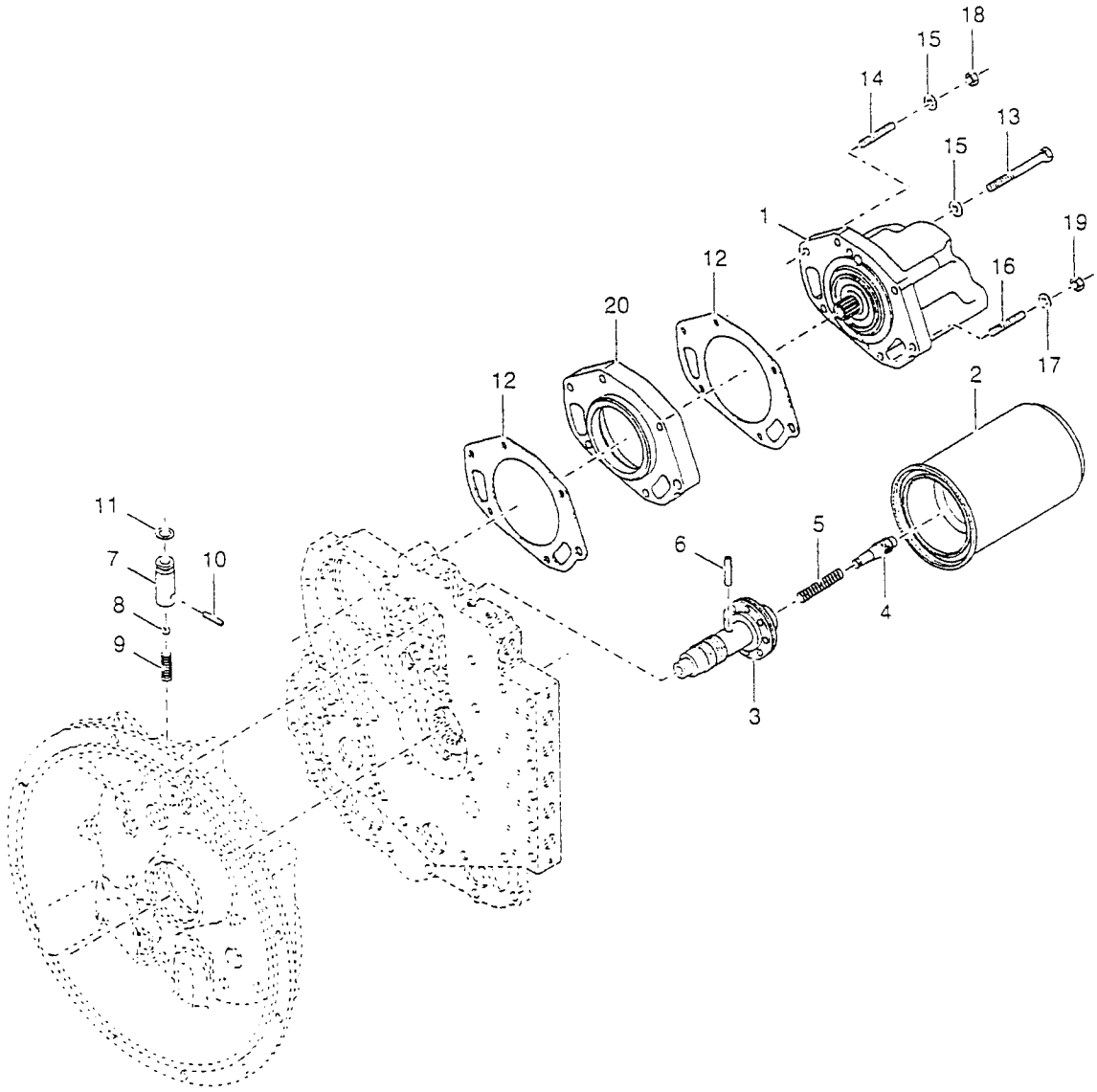

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|---|---|---|---|---|
| 4 | PAGE NUMBER | GEAR GROUP<br>T12000 SERIES TRANSMISSION / TH528 | DRAWING NUMBER | P1-1247 |

| 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 |



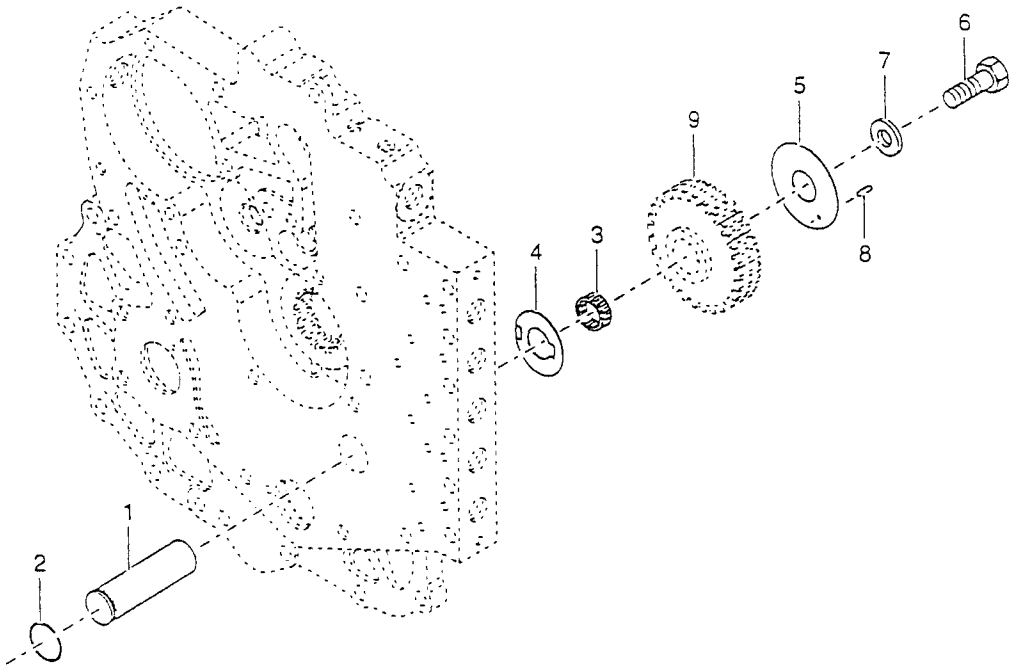

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|---|---|---|---|---|
| 5 | PAGE NUMBER | PUMP DRIVE GROUP<br>T12000 SERIES TRANSMISSION / TH528 | DRAWING NUMBER | P1-1248 |

| 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 |



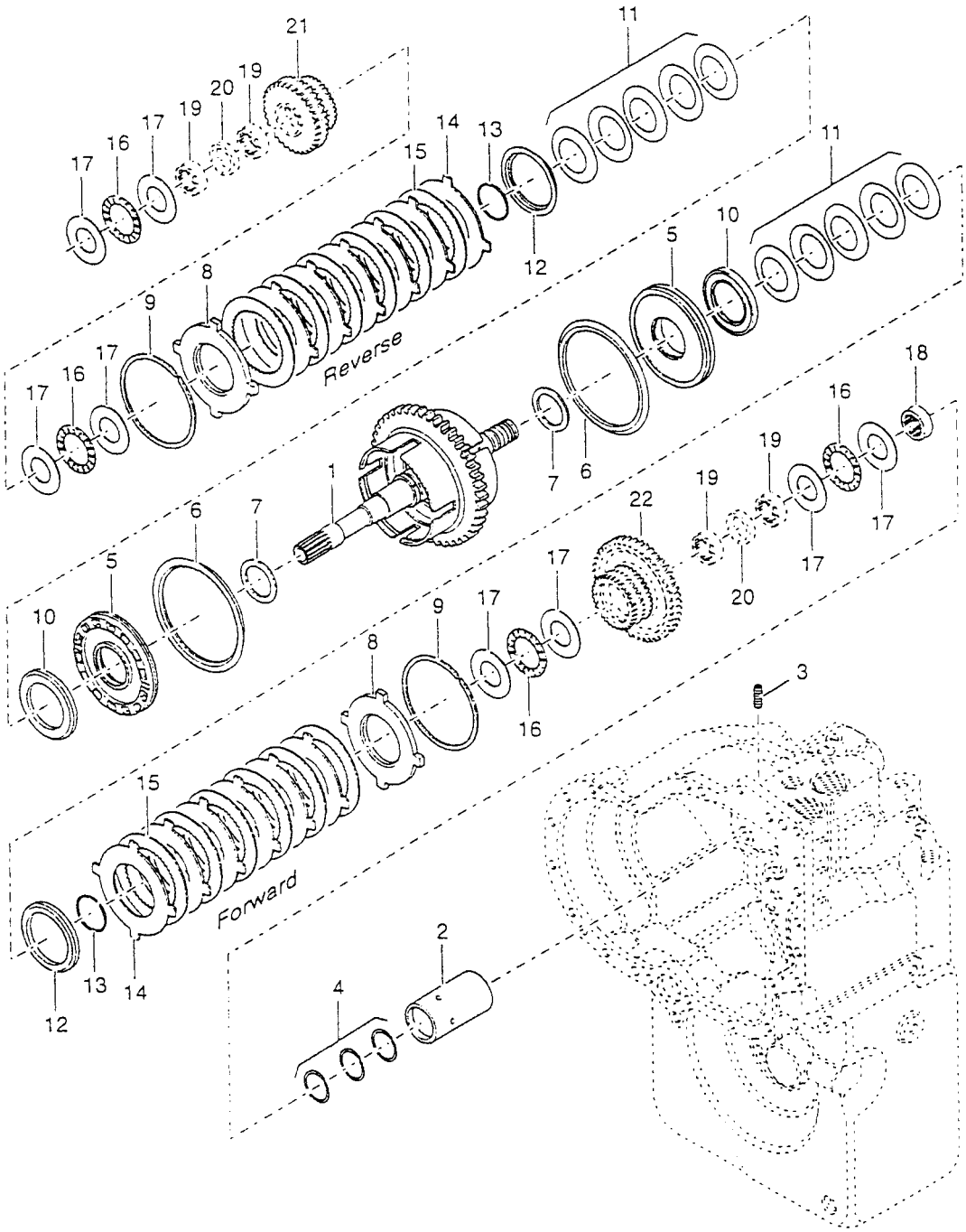

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|---|---|---|---|
| 6 PAGE NUMBER | CHARGING PUMP GROUP<br>T12000 SERIES TRANSMISSION / TH528 | DRAWING NUMBER | P1-1249 |

| 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 |



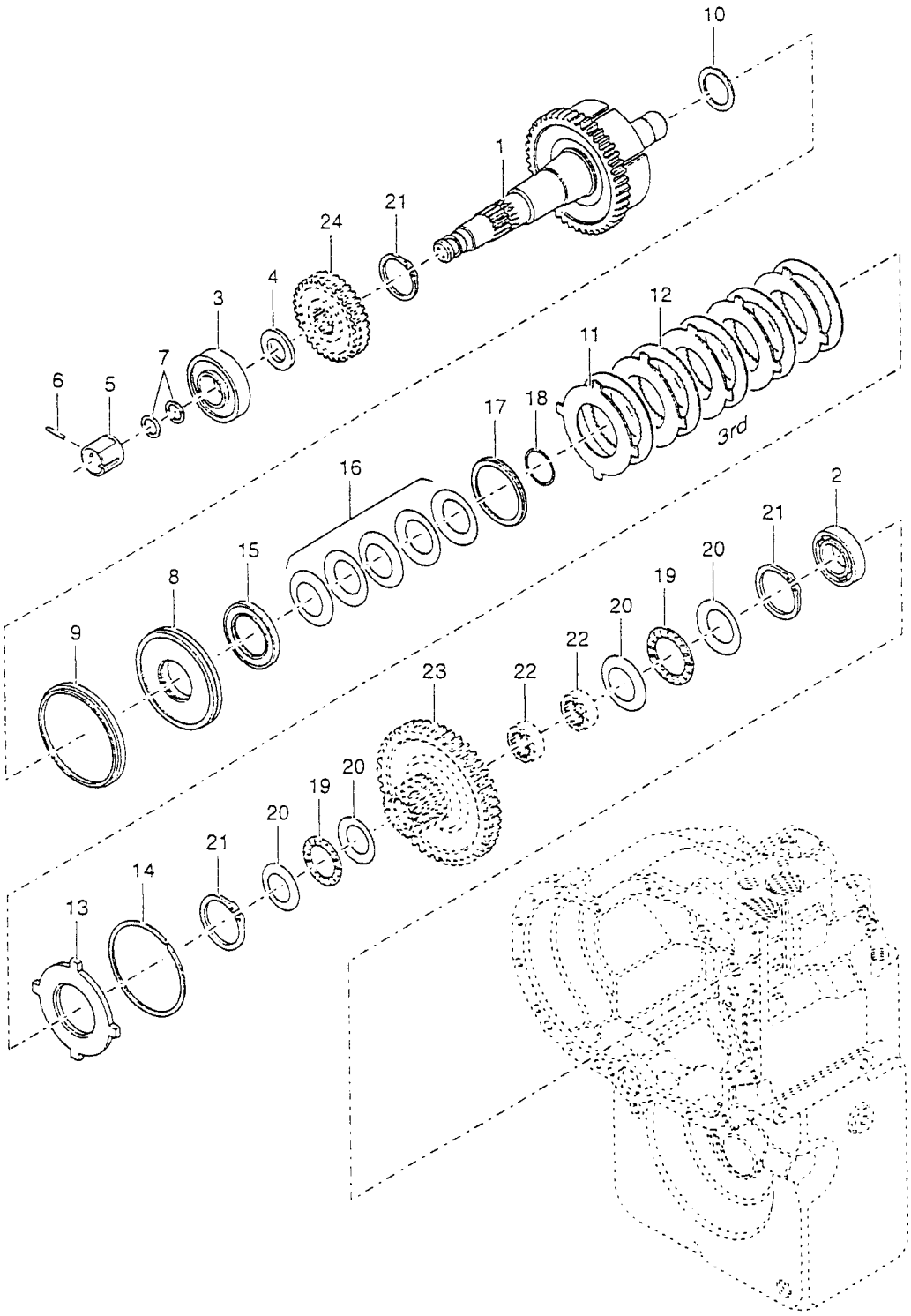

| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-126-457 | IDLER & PILOT SHAFT | 1 |
| 2 | 7-126-458 | IDLER SHAFT SNAP RING | 1 |
| 3 | 7-126-459 | REVERSE IDLER GEAR BEARING | 1 |
| 4 | 7-126-460 | THRUST WASHER | 1 |
| 5 | 7-126-461 | END PLATE | 1 |
| 6 | 7-126-462 | CAPSCREW | 1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

# NOTES



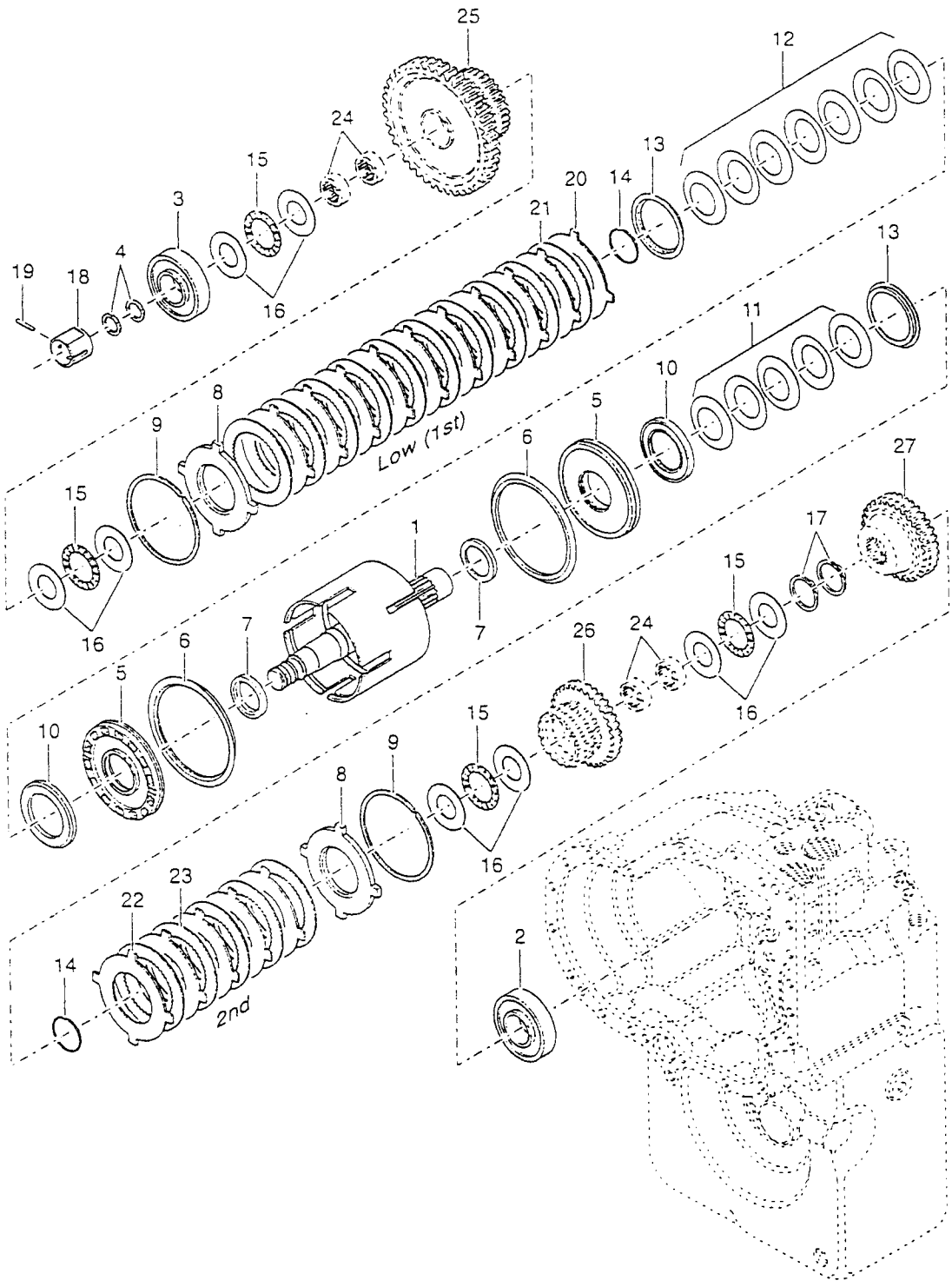

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|---|---|---|---|---|
| 8 | PAGE NUMBER | FORWARD & REVERSE SHAFT GROUP<br>T12000 SERIES TRANSMISSION / TH528 | DRAWING NUMBER | P1-1251 |

| 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 |



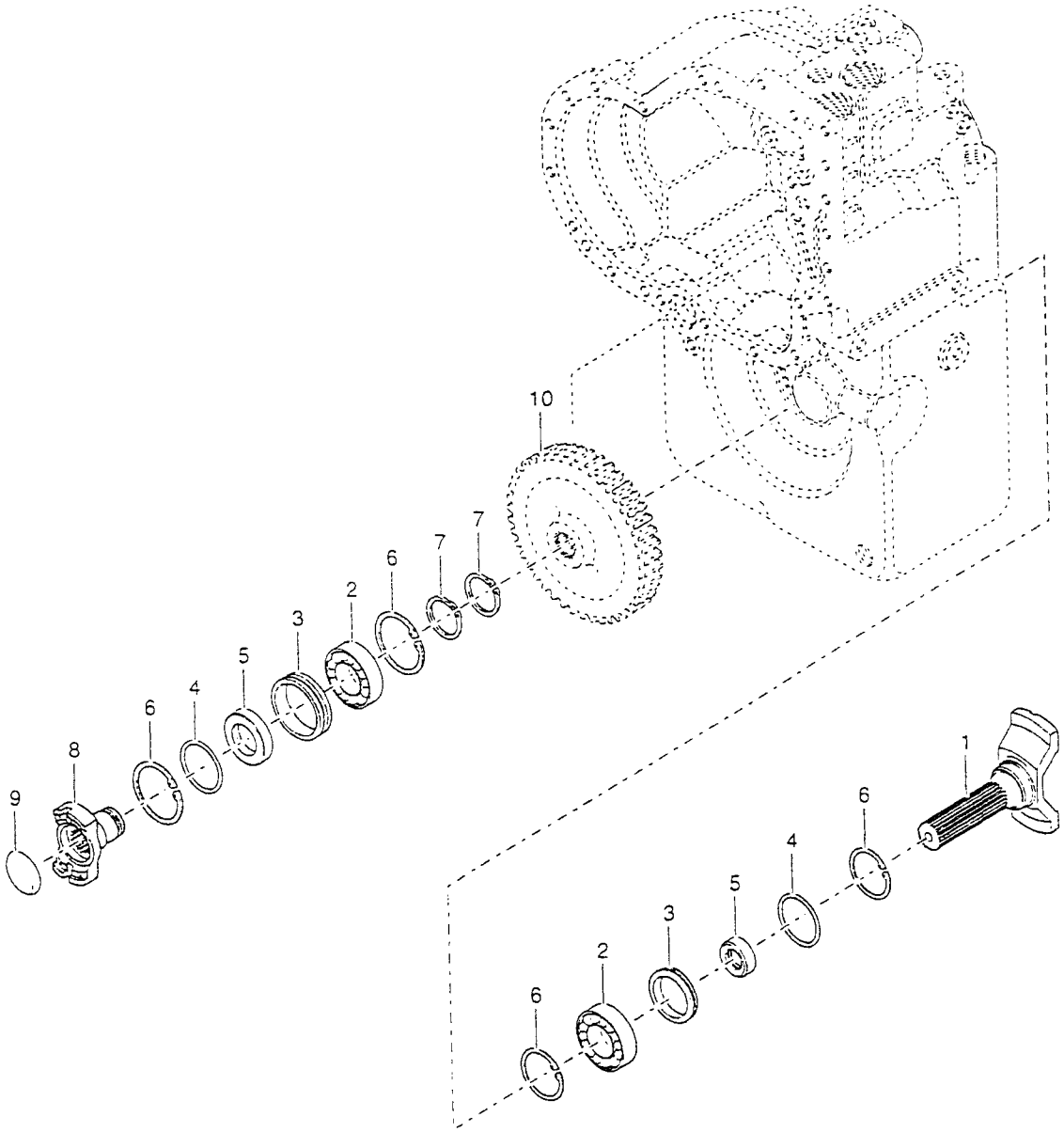

| 9 PAGE NUMBER | 3rd SHAFT GROUP<br>T12000 SERIES TRANSMISSION / TH528 | DRAWING NUMBER P1-1252 |
|---|---|---|

| 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 |



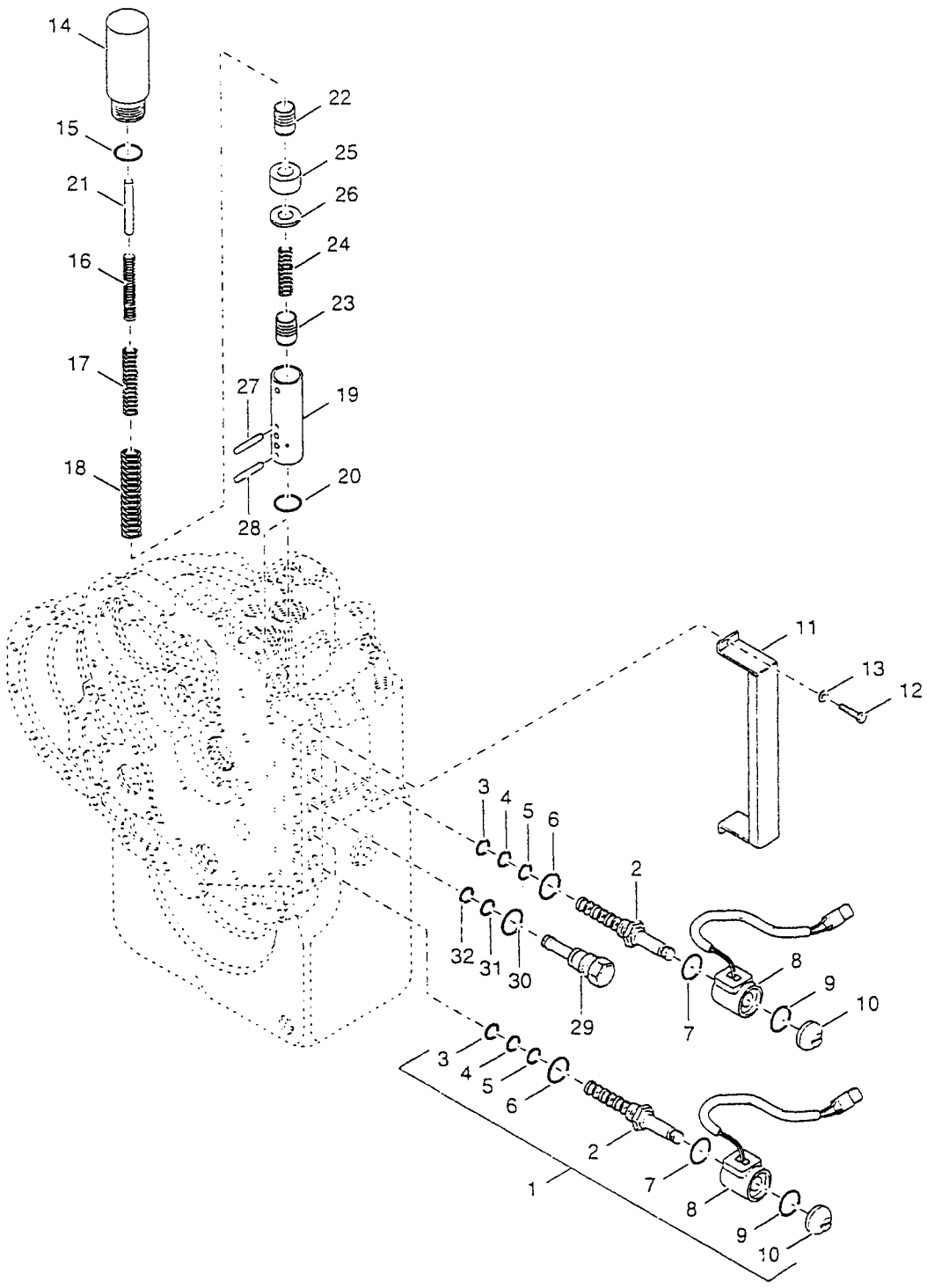

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|---|---|---|---|---|
| 10 | PAGE NUMBER | FIRST AND SECOND SHAFT GROUP<br>T12000 SERIES TRANSMISSION / TH528 | DRAWING NUMBER | P1-1253 |

| 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 |



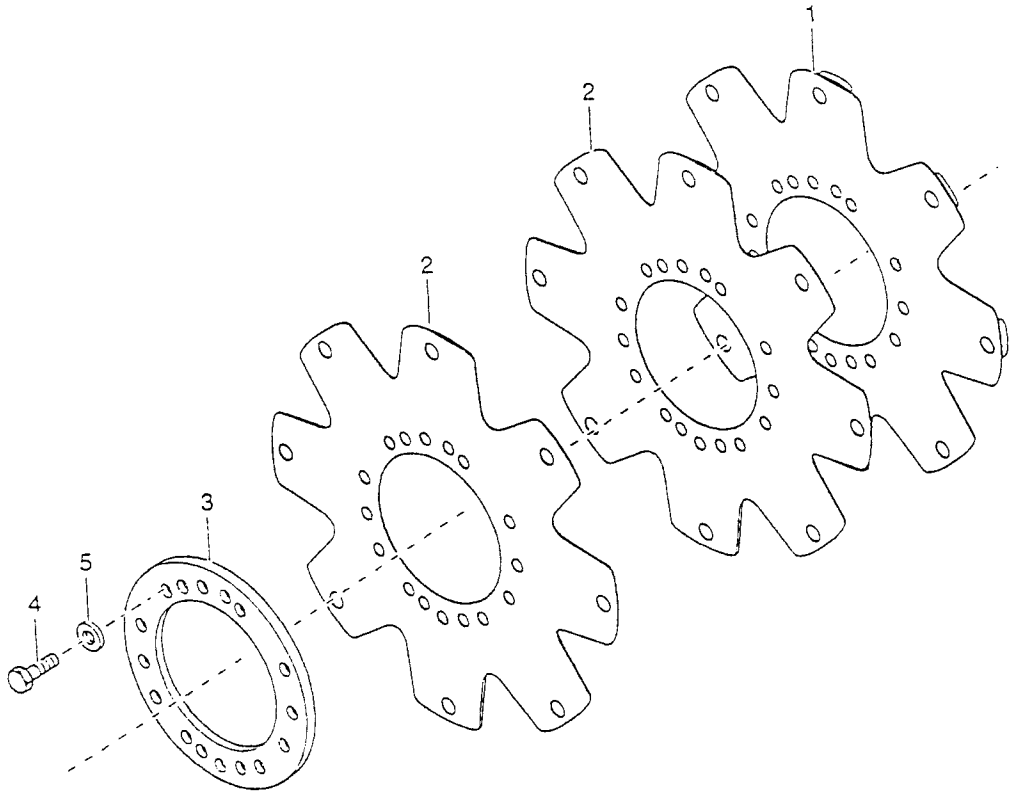

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|---|---|---|---|---|---|
| 11 | PAGE NUMBER | OUTPUT SHAFT GROUP<br>T12000 SERIES TRANSMISSION / TH528 | | DRAWING NUMBER | P1-1254 |

| 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 |



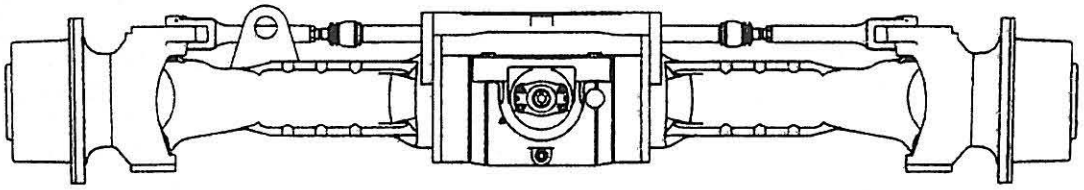

| | | | | |
|---|---|---|---|---|
| 12 | PAGE NUMBER | ELECTRIC CONTROL GROUP<br>T12000 SERIES TRANSMISSION / TH528 | DRAWING NUMBER | P1-1255 |

| 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 & REAR AXLE PARTS BOOK TH528



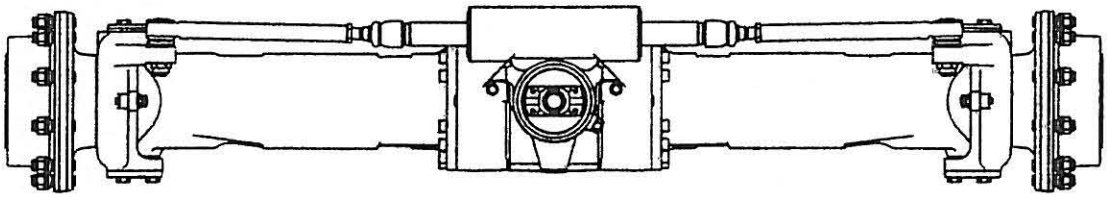
SPICER PS-6052 SERIES
7-229-471 STEERING CYLINDER

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

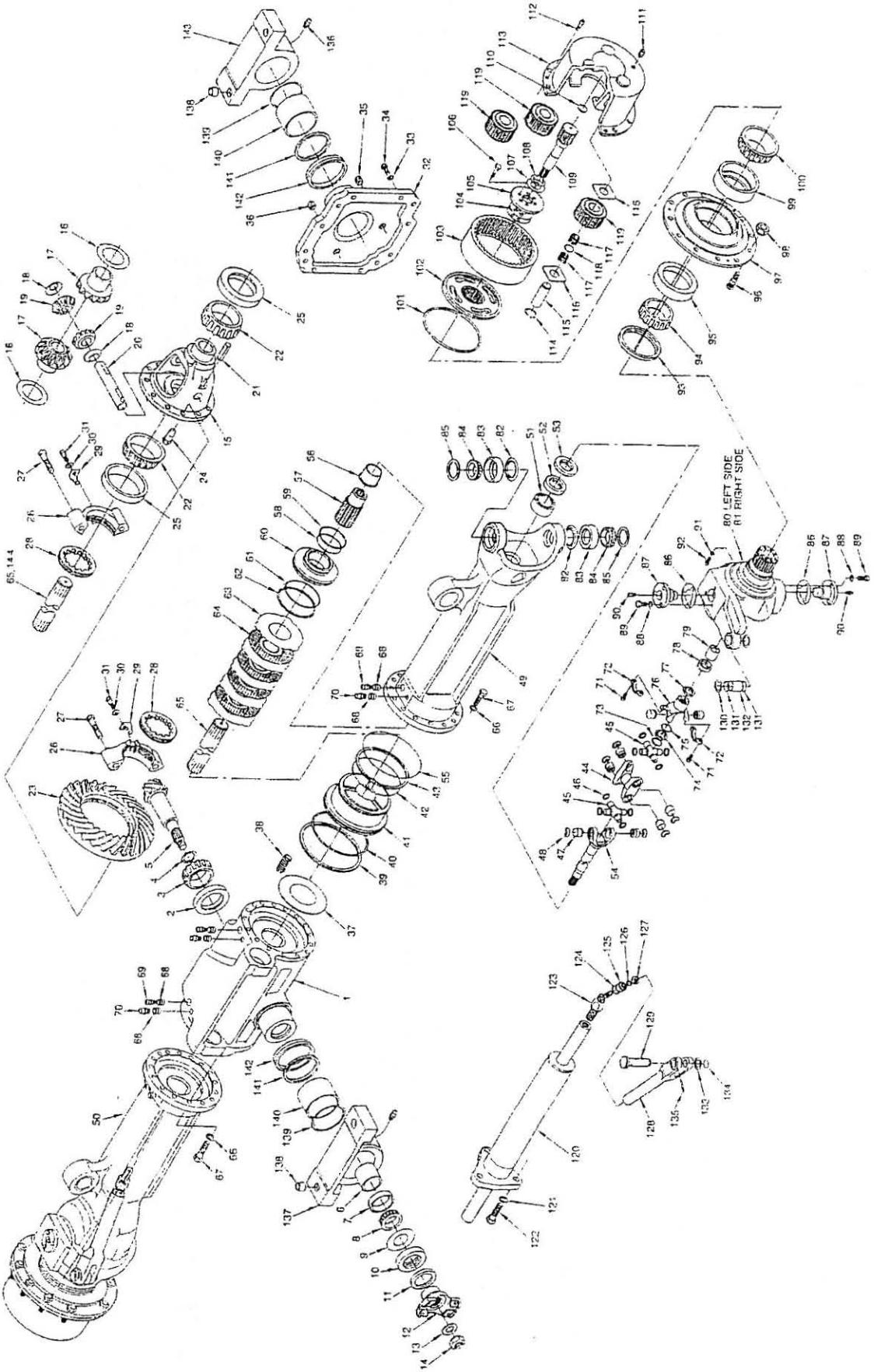
# AXLE PARTS ORDERING GUIDE

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

L.H. R.H.



LOOKING STRAIGHT AT AXLE END YOKE




| | | | |
|---|---|---|---|
| 1 PAGE NUMBER | PS-6052 AXLE ASSEMBLY / 7-229-360<br>TH528 | DRAWING NUMBER | P4-2015 |

| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 1 | 7-229-392 | CARRIER SUB ASSEMBLY | 1 |
| 2 | 7-229-393 | BEARING / CUP | 1 |
| 3 | 7-229-394 | BEARING / CONE | 1 |
| 4 | 7-229-395 | SHIM | 1 |
| 5 | 7-229-396 | GEAR & PINION ASSY (WITH ITEM 23) | 1 |
| 6 | 7-229-397 | SPACER | 1 |
| 7 | 7-229-398 | BEARING / CUP | 1 |
| 8 | 7-229-399 | BEARING / CONE | 1 |
| 9 | 7-229-176 | THRUST WASHER | 1 |
| 10 | 7-229-285 | OIL SEAL | 1 |
| 11 | 7-229-136 | DEFLECTOR | 1 |
| 12 | 7-229-400 | END YOKE | 1 |
| 13 | 7-229-133 | WASHER / PINION NUT | 1 |
| 14 | 7-229-132 | NUT / PINION | 1 |
| 15 | 7-229-401 | DIFFERENTIAL STANDARD CASE | 1 |
| 16 | 7-229-168 | THRUST WASHER | 2 |
| 17 | 7-229-402 | DIFFERENTIAL GEAR | 2 |
| 18 | 7-229-403 | THRUST WASHER | 2 |
| 19 | 7-229-404 | DIFFERENTIAL PINION | 2 |
| 20 | 7-229-405 | SHAFT / DIFFERENTIAL | 1 |
| 21 | 7-229-406 | ROLL PIN | 1 |
| 22 | 7-229-407 | BEARING / CONE | 2 |
| 23 | 7-229-396 | GEAR & PINION ASSY (WITH ITEM 5) | 1 |
| 24 | 7-229-160 | DRIVE GEAR SCREW | 12 |
| 25 | 7-229-408 | BEARING / CUP | 2 |
| 26 | 7-229-409 | BEARING CAP | 2 |
| 27 | 7-229-410 | HEX BOLT | 4 |
| 28 | 7-229-411 | ADJUSTING RING | 2 |
| 29 | 7-229-163 | ADJUSTING RING CLIP | 2 |
| 30 | 7-229-164 | FLAT WASHER | 2 |
| 31 | 7-229-165 | HEX BOLT | 2 |
| 32 | 7-229-412 | CARRIER COVER | 1 |
| 33 | 7-229-173 | FLAT WASHER | 12 |
| 34 | 7-229-228 | HEX BOLT | 12 |
| 35 | 7-229-175 | PIPE PLUG | 1 |
| 36 | 7-229-175 | PIPE PLUG | 1 |
| 37 | 7-229-413 | PLATE / SPRING BACKING | 2 |
| 38 | 7-229-414 | COMPRESSION SPRING | 20 |
| 39 | 7-229-382 | GLIDE RING / INNER | 2 |
| 40 | 7-229-381 | O-RING | 2 |
| 41 | 7-229-415 | PISTON | 2 |
| 42 | 7-229-383 | O-RING | 2 |
| 43 | 7-229-384 | GLIDE RING / OUTER | 2 |
| 44 | 7-229-416 | YOKE CENTER | 2 |
| 45 | 7-229-417 | U-JOINT CROSS | 4 |
| 46 | 7-229-418 | SEAL ASSEMBLY | 16 |
| 47 | 7-229-256 | BEARING RACE ASSY | 16 |
| 48 | 7-229-419 | SNAP RING | 12 |
| 49 | 7-229-420 | AXLE HOUSING / RIGHT SIDE | 1 |
| 50 | 7-229-421 | AXLE HOUSING / LEFT SIDE | 1 |
| 51 | 7-229-193 | SPINDLE BUSHING | 2 |
| 52 | 7-229-192 | OIL SEAL | 2 |

| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 53 | 7-229-303 | OIL SEAL | 2 |
| 54 | 7-229-422 | SHAFT / INNER YOKE | 2 |
| 55 | 7-229-389 | O-RING | 2 |
| 56 | 7-229-423 | FLANGE BUSHING | 2 |
| 57 | 7-229-424 | SPLINED COUPLING | 2 |
| 58 | 7-229-387 | O-RING / OUTER | 2 |
| 59 | 7-229-388 | GLIDE RING / OUTER | 2 |
| 60 | 7-229-425 | SERVICE PISTON | 2 |
| 61 | 7-229-385 | O-RING / INNER | 2 |
| 62 | 7-229-386 | GLIDE RING / INNER | 2 |
| 63 | 7-229-390 | PLATE / LINING STOP | 10 |
| 64 | 7-229-391 | FRICTION DISC ASSEMBLY | 8 |
| 65 | 7-229-426 | RIGHT AXLE SHAFT | 1 |
| 66 | 7-229-173 | FLAT WASHER | 32 |
| 67 | 7-229-428 | HEX BOLT | 32 |
| 68 | 7-229-110 | SEAT INSERT | 4 |
| 69 | 7-229-111 | BLEEDER SCREW | 4 |
| 70 | 7-229-112 | HYDRAULIC BRAKE FITTING | 4 |
| 71 | 7-229-430 | FLANGE SCREW | 8 |
| 72 | 7-229-429 | BEARING STRAP | 4 |
| 73 | 7-229-431 | SNAP RING | 1 |
| 74 | 7-229-432 | SPACER | 1 |
| 75 | 7-229-433 | O-RING | 1 |
| 76 | 7-229-434 | END YOKE | 1 |
| 77 | 7-229-380 | OIL SEAL | 1 |
| 78 | 7-229-187 | OIL SEAL | 2 |
| 79 | 7-229-435 | SPINDLE BUSHING | 2 |
| 80 | 7-229-436 | STEERING KNUCKLE / LEFT | 1 |
| 81 | 7-229-437 | STEERING KNUCKLE / RIGHT | 1 |
| 82 | 7-229-438 | GREASE RETAINER | 4 |
| 83 | 7-229-398 | BEARING / CUP | 2 |
| 84 | 7-229-399 | BEARING / CONE | 4 |
| 85 | 7-229-439 | OIL SEAL | 4 |
| 86 | SEE TABLE | SHIMS (ITEMS 145-150) | REF |
| 87 | 7-229-441 | CAP / KING PIN | 4 |
| 88 | 7-229-173 | FLAT WASHER | 12 |
| 89 | 7-229-442 | HEX BOLT | 12 |
| 90 | 7-229-69 | GREASE FITTING | 4 |
| 91 | 7-229-173 | FLAT WASHER | 2 |
| 92 | 7-229-443 | STOP BOLT | 2 |
| 93 | 7-229-379 | OIL SEAL | 1 |
| 94 | 7-229-108 | BEARING / CONE | 1 |
| 95 | 7-229-107 | BEARING / CUP | 1 |
| 96 | 7-229-371 | BOLT / WHEEL | 10 |
| 97 | 7-229-447 | WHEEL HUB | 1 |
| 98 | 7-229-104 | NUT / 3/4-16 RH | 20 |
| 99 | 7-229-299 | BEARING / CUP | 1 |
| 100 | 7-229-102 | BEARING / CONE | 1 |
| 101 | 7-229-450 | SNAP RING | 1 |
| 102 | 7-229-451 | PLANETARY HUB | 1 |
| 103 | 7-229-452 | PLANETARY RING GEAR | 1 |

| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 104 | SEE TABLE | SHIMS (SEE ITEMS 151-156) | REF |
| 105 | 7-229-459 | RETAINING PLATE | 1 |
| 106 | 7-229-228 | HEX BOLT | 12 |
| 107 | 7-229-460 | THRUST WASHER | 1 |
| 108 | 7-229-461 | THRUST WASHER | 1 |
| 109 | 7-229-462 | INPUT GEAR | 1 |
| 110 | 7-229-88 | WASHER / DRIVE FLANGE | 1 |
| 111 | 7-229-175 | PLUG / PIPE | 2 |
| 112 | 7-229-463 | SCREW / SOCKET HEAD | 2 |
| 113 | 7-229-464 | PLANETARY DRIVE FLANGE | 1 |
| 114 | 7-229-465 | SNAP RING | 3 |
| 115 | 7-229-466 | SHAFT / PLANET GEAR | 3 |
| 116 | 7-229-467 | WASHER / DRIVE FLANGE | 6 |
| 117 | 7-229-468 | NEEDLE BEARING | 6 |
| 118 | 7-229-469 | THRUST WASHER | 3 |
| 119 | 7-229-470 | GEAR | 3 |
| 120 | 7-229-471 | STEERING CYLINDER ASSEMBLY | 1 |
| 121 | 7-229-173 | FLAT WASHER | 3 |
| 122 | 7-229-228 | HEX BOLT | 3 |
| 123 | 7-229-472 | SOCKET ASSEMBLY | 2 |
| 124 | 7-229-473 | LARGE RETAINING WIRE | 2 |
| 125 | 7-229-474 | BOOT | 2 |
| 126 | 7-229-475 | SMALL RETAINING WIRE | 2 |
| 127 | 7-229-476 | JAM NUT | 2 |
| 128 | 7-229-477 | STEERING ARM | 2 |
| 129 | 7-229-478 | CLEVIS PIN | 2 |
| 130 | 7-229-479 | SHIM (AS REQUIRED) | REF |
| 131 | 7-229-370 | O-RING | 4 |
| 132 | 7-229-480 | BUSHING | 1 |
| 133 | 7-229-481 | FLAT WASHER | 2 |
| 134 | 7-229-482 | SNAP RING | 2 |
| 135 | 7-229-292 | DOWEL PIN | 2 |
| 136 | 7-229-69 | GREASE FITTING | 2 |
| 137 | 7-229-483 | TRUNNION BEAM / REAR | 1 |
| 138 | 7-229-484 | LOCATING PIN | 4 |
| 139 | 7-229-485 | O-RING | 2 |
| 140 | 7-229-486 | SPINDLE BUSHING | 2 |
| 141 | 7-229-362 | BEARING THRUST WASHER | 2 |
| 142 | 7-229-376 | GREASE SEAL | 2 |
| 143 | 7-229-487 | TRUNNION BEAM / FRONT | 1 |
| 144 | 7-229-427 | LEFT AXLE SHAFT (NOT SHOWN) | 1 |

## SHIM TABLES

### ITEM 86

| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 145 | 7-229-440 | SHIM / .002 (AS REQUIRED) | REF |
| 146 | 7-229-504 | SHIM / .005 (AS REQUIRED) | REF |
| 147 | 7-229-505 | SHIM / .010 (AS REQUIRED) | REF |
| 148 | 7-229-506 | SHIM / .015 (AS REQUIRED) | REF |
| 149 | 7-229-507 | SHIM / .030 (AS REQUIRED) | REF |
| 150 | 7-229-508 | SHIM / .060 (AS REQUIRED) | REF |

## ITEM 104

| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 151 | 7-229-453 | SHIM / .003 (AS REQUIRED) | REF |
| 152 | 7-229-454 | SHIM / .002 (AS REQUIRED) | REF |
| 153 | 7-229-455 | SHIM / .005 (AS REQUIRED) | REF |
| 154 | 7-229-456 | SHIM / .010 (AS REQUIRED) | REF |
| 155 | 7-229-457 | SHIM / .020 (AS REQUIRED) | REF |
| 156 | 7-229-458 | SHIM / .030 (AS REQUIRED) | REF |

# KITS & SUBASSEMBLIES

| ITEM | NUMBER | DESCRIPTION | REQD |
|---|---|---|---|
| 157 | 7-229-488 | CARRIER ASSEMBLY (ITEMS 1-31) | 1 |
| 158 | 7-229-489 | DIFFERENTIAL CASE ASSY (ITEMS 15-21) | 1 |
| 159 | 7-229-490 | DIFFERENTIAL CASE KIT (ITEMS 16-21) | REF |
| 160 | 7-229-491 | GEAR & PINION KIT (ITEMS 17-19) | REF |
| 161 | 7-229-492 | END YOKE ASSEMBLY (ITEMS 11, 12) | 1 |
| 162 | 7-229-493 | SHAFT & JOINT ASSY (ITEMS 45,47,48, 157) | 2 |
| 163 | 7-229-202 | CROSS ASSEMBLY (ITEMS 45, 46) | 2 |
| 164 | 7-229-494 | L.H. STEER KNUCKLE ASSY (ITEMS 78-80, 132) | 1 |
| 165 | 7-229-495 | R.H. STEER KNUCKLE ASSY (ITEMS 78,79,81,132) | 1 |
| 166 | 7-229-496 | REAR TRUNNION ASSY (ITEMS 136-140) | 1 |
| 167 | 7-229-497 | FRONT TRUNNION ASSY (ITEMS 136,138-140,143) | 1 |
| 168 | 7-229-498 | WHEEL END ASSY (ITEMS 100,104-107,112,163-167) | 2 |
| 169 | 7-229-499 | PLANETARY GEAR ASSY (ITEMS 110, 113-119) | 1 |
| 170 | 7-229-500 | HUB ASSEMBLY (ITEMS 93-97, 99) | 1 |
| 171 | 7-229-501 | RING GEAR ASSEMBLY (ITEMS 101-103) | 1 |
| 172 | 7-229-502 | OUTPUT SHAFT ASSEMBLY (ITEMS 108-109) | 1 |
| 173 | 7-229-503 | YOKE ASSEMBLY (ITEMS 74, 77) | 1 |