Form Number 3353-786 Rev E

# Groundsmaster® 4500-D

**Model No. 30856 - 250000501 and up.**

## Parts Catalog

**Ordering Replacement Parts**

To order replacement parts, please supply the part number, the quantity, and the description of each part desired.

**Understanding Reference Numbers**

Each Identified part in an illustration has a reference number. The reference number for a part also appears in the parts list, along with other information about the part.

This catalog uses two special reference number formats, one to indicate parts in a service assembly and another to indicate the quantity of a given part in an illustration.

**Service Assembly Reference Numbers**

Parts in service assemblies have reference numbers in the form a:b. The a represents the reference number of the entire service assembly and the b represents a sequential number unique to each part within the service assembly.

For example, a wheel assembly might be identified by reference number 6, the tire by 6:1, the valve by 6:2, and the wheel by 6:3. When you order the assembly identified by reference number 6, you receive all parts identified by reference numbers 6:1, 6:2, and 6:3. However, you may also order any part individually. Reference numbers of this type appear in illustrations and in part lists.

**Reference Numbers Indicating Quantity**

In an illustration, if a reference number indicates more than one part, the reference number has the form nX y. The n represents the quantity of the part, the X is the multiplication symbol, and the y represents the reference number.

For example, in an illustration, the reference number 2X 37 means that two of the parts identified by reference number 37 are indicated.

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# Part Description Abbreviations

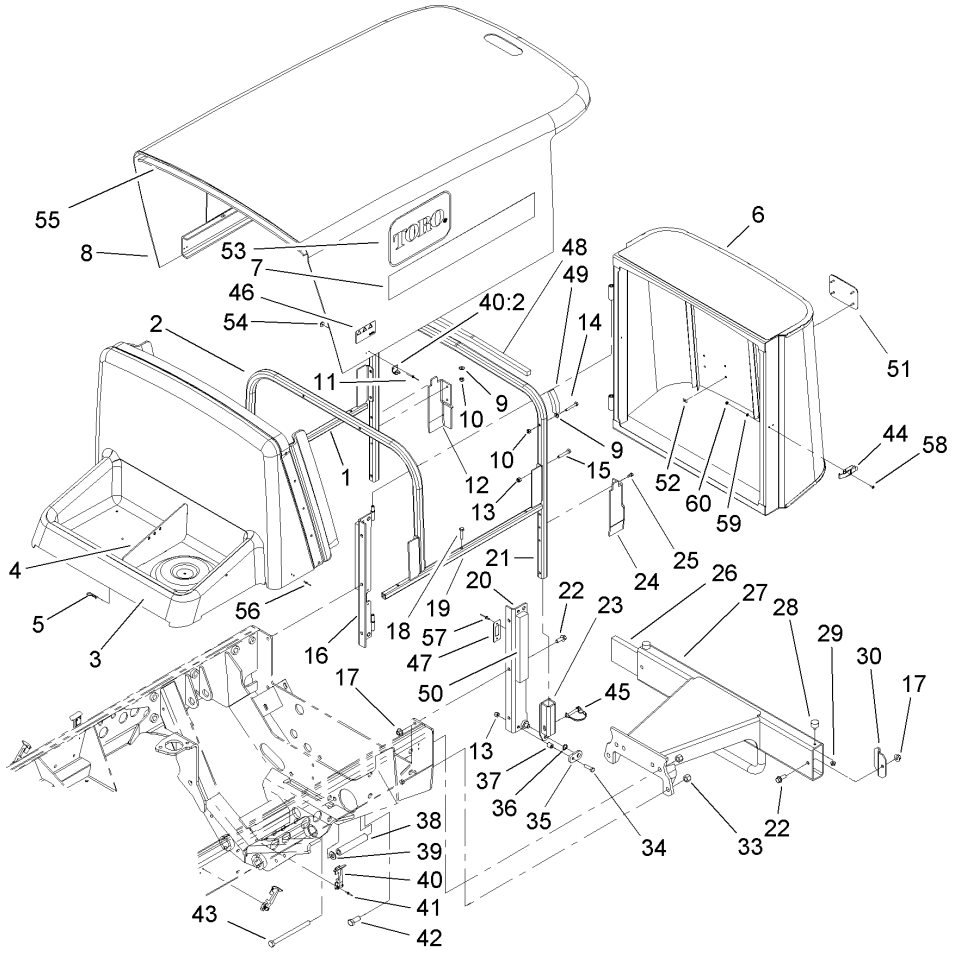
Part descriptions in this catalog may include the following abbreviations.

AR. . . . . as required
ASM. . . . . assembly
BBC. . . . . blade brake clutch
CARR. . . . . carriage
DEG. . . . . degrees
EXT. . . . . external
FH. . . . . flat head
GA. . . . . gauge
HD. . . . . heavy-duty
HF. . . . . hex flange
HH. . . . . hex head
HHF. . . . . hex head flange
HHFTF. . . . . hex head flange thread forming
HJ. . . . . hex jam
HLH. . . . . hex lag head
HOC. . . . . height-of-cut
HSBH. . . . . hex socket button head
HSFH. . . . . hex socket flat head
HSH. . . . . hex socket head
HWH. . . . . hex washer head
HWHTF. . . . . hex washer head thread forming
HYD. . . . . hydraulic
LH. . . . . left hand
NI. . . . . nylon insert
NPTF. . . . . national pipe thread fine
PFH. . . . . phillips flat head
PPH. . . . . phillips pan head
PPHTF. . . . . phillips pan head thread forming
PRH. . . . . phillips round head
PTH. . . . . phillips truss head
PTO. . . . . power-take-off
RH. . . . . right hand
ROPS. . . . . roll-over protection system
SFH. . . . . slotted fillister head
SHH. . . . . slotted hex head
SHWH. . . . . slotted hex washer head
SPH. . . . . slotted pan head
SQH. . . . . square head
SRH. . . . . slotted round head
STD. . . . . standard
TAP. . . . . self tapping
TTH. . . . . torx truss head

# Footnotes

❶ Not illustrated

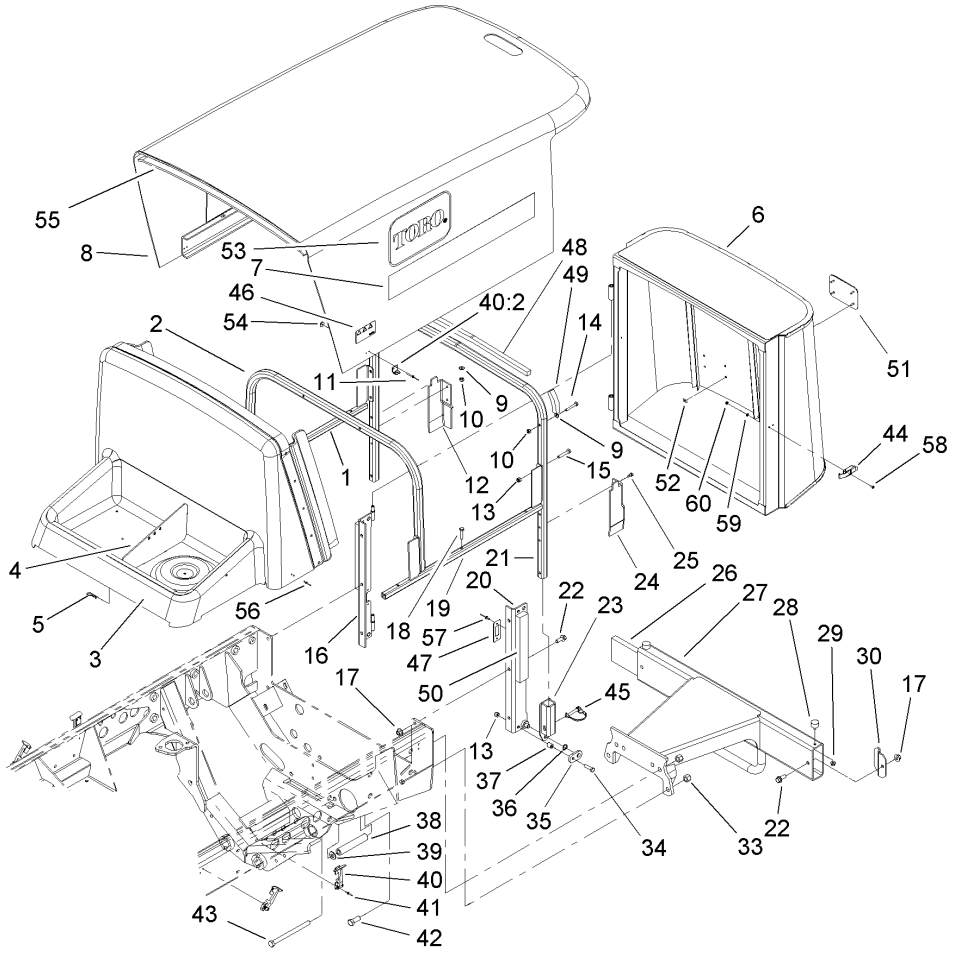
❷ Not serviced separately




# Hood Screen and Bumper Assembly

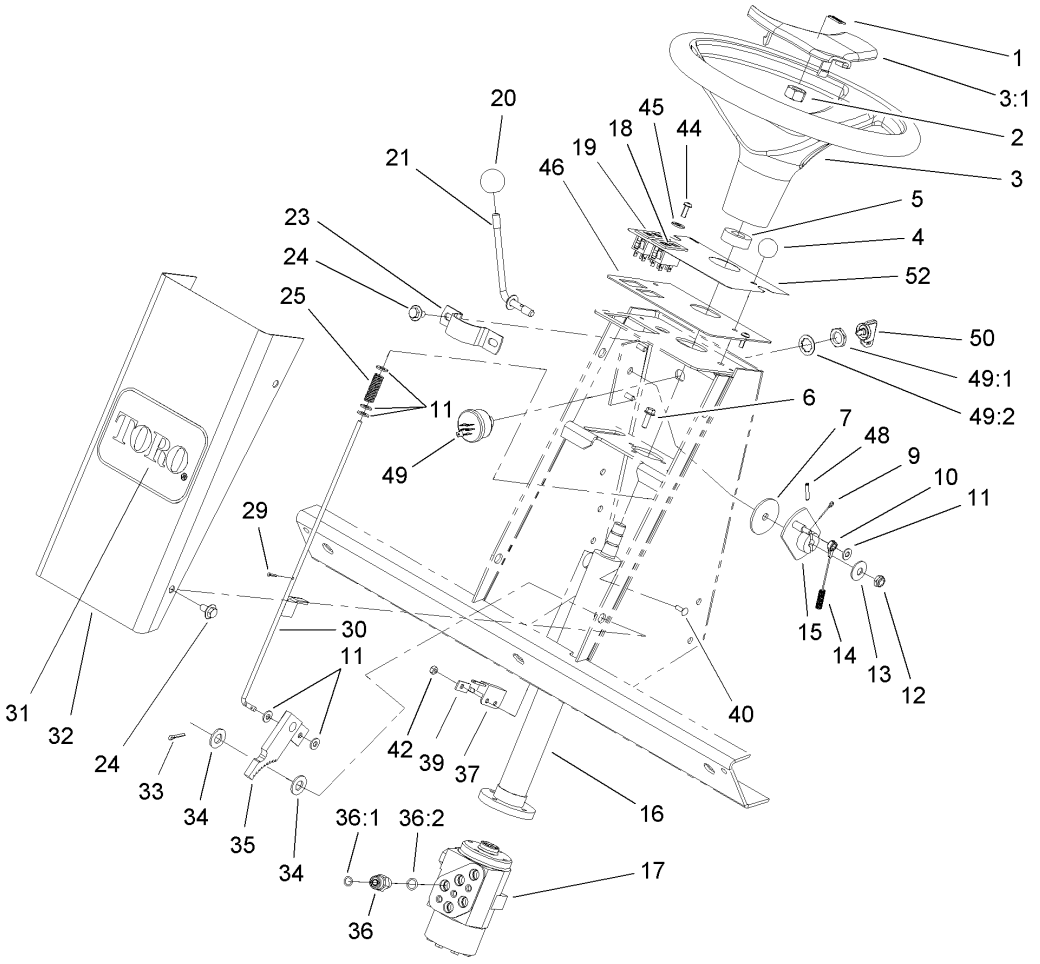
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 107-1975-03 | 1 | RH Hood Frame ASM |
| 2 | 107-1973-03 | 1 | Tube-Front, Hood |
| 3 | 104-5430 | 1 | Shroud-Front |
| 4 | 104-5446-03 | 1 | Divider-Shroud |
| 5 | 3290-467 | 2 | Pin-Hair |
| 6 | 104-5454-03 | 1 | Screen ASM |
| 7 | 105-9877 | 2 | Decal |
| 8 | 104-5419 | 1 | Hood |
| ❶8:1 | 106-8116 | 1 | Heat Tape Repair Kit |
| 9 | 3256-22 | 12 | Washer-Flat |
| 10 | 3296-42 | 12 | Nut-Lock, NI |
| 11 | 3269-17 | 4 | Rivet-Pop |
| 12 | 104-5431 | 1 | Cover-Tube, RH |
| 13 | 3296-29 | 10 | Nut-Lock, NI |
| 14 | 321-10 | 6 | Screw-HH |
| 15 | 322-9 | 8 | Screw-HH |
| 16 | 104-5445-03 | 1 | RH Support ASM |
| 17 | 32128-43 | 6 | Nut-Flange |
| 18 | 321-13 | 6 | Screw-HH |
| 19 | 107-1974-03 | 1 | LH Hood Frame ASM |
| 20 | 104-5444-03 | 1 | LH Support ASM |
| 21 | 104-5435-03 | 1 | Tube-Rear, Hood |
| 22 | 3234-11 | 6 | Screw-HHF |
| 23 | 104-5440-03 | 2 | Hood Receiver ASM |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 24 | 104-5432 | 1 | Cover-Tube, LH |
| 25 | 32104-17 | 4 | Screw-HWH |
| 26 | 105-9199-03 | 1 | Weight-Bumper |
| 27 | 105-9221-03 | 1 | Rear Bumper ASM |
| 28 | 240-14 | 2 | Bumper-Rubber |
| 29 | 32128-33 | 2 | Nut-HF |
| 30 | 105-9200-03 | 2 | Clamp-Weight, Bumper |
| 33 | 3296-23 | 4 | Nut-Lock, NI |
| 34 | 322-17 | 2 | Screw-HH |
| 35 | 104-5450 | 2 | Retainer-Receiver, Hood |
| 36 | 3290-221 | 2 | Washer-Spring |
| 37 | 104-5451 | 2 | Spacer-Receiver, Hood |
| 38 | 76-8350 | 2 | Stop-Axle |
| 39 | 3256-26 | 2 | Washer-Flat |
| 40 | 59-9740 | 4 | Flex Draw Latch ASM |
| 40:2 | 249-40 | 1 | Keeper |
| 41 | 3290-55 | 8 | Rivet-Pop |
| 42 | 325-6 | 2 | Screw-HH |
| 43 | 325-33 | 2 | Screw-HH |
| 44 | 105-3912 | 1 | Latch-Draw |
| 45 | 105-9245 | 2 | Pin-Lock |
| 46 | 106-6754 | 2 | Decal-Danger |
| 47 | 104-5459 | 1 | Plate-Latch |
| 48 | 105-9234 | 1 | Seal-Foam |




# Hood Screen and Bumper Assembly (continued)

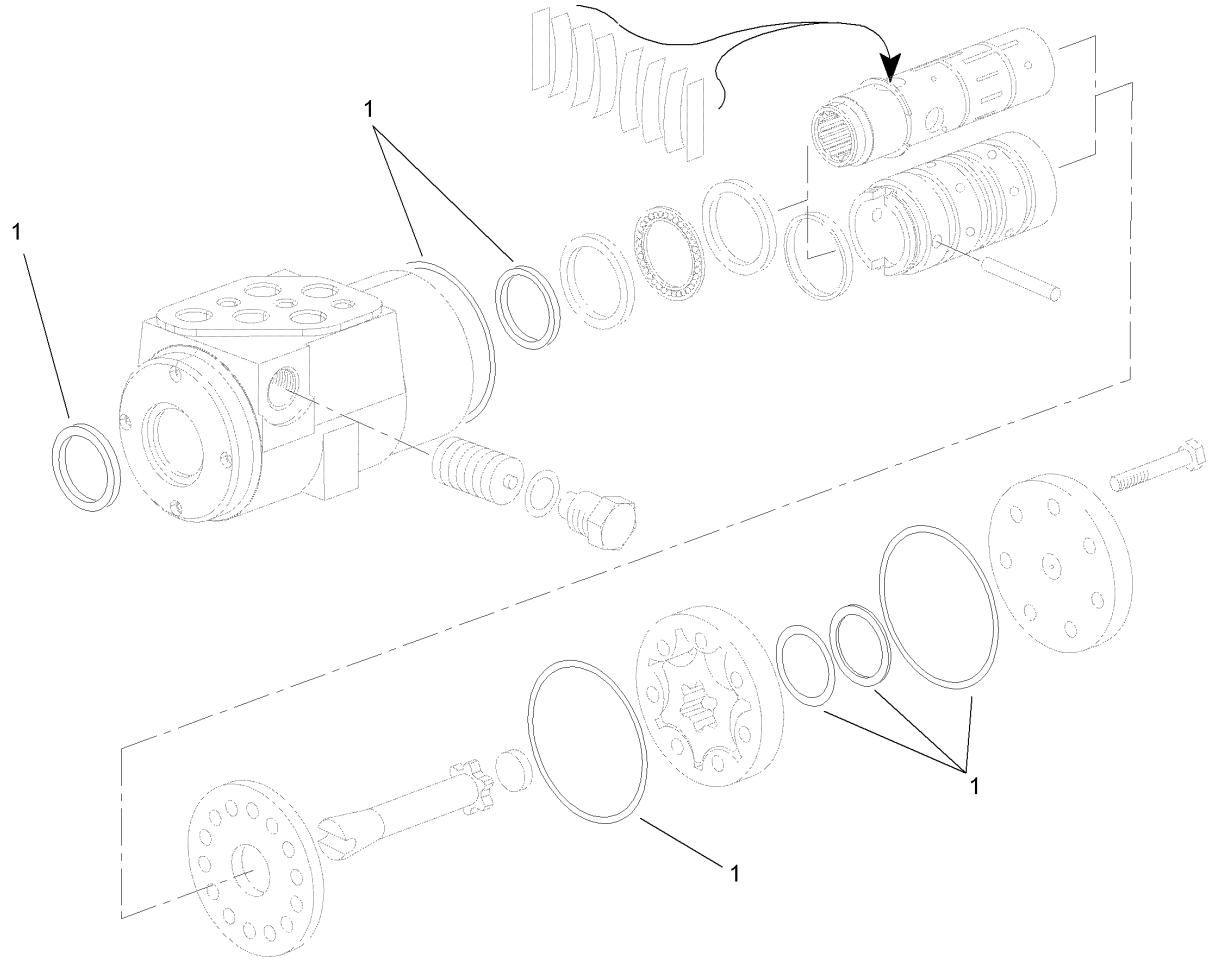
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 49 | 105-9237 | 2 | Seal-Foam |
| 50 | 105-9235 | 2 | Seal-Foam |
| 51 | 93-6028 | 1 | Plate-Logo |
| 52 | 94-2638 | 4 | Nut-Tinnerman |
| 53 | 66-1210 | 2 | Decal |
| 54 | 3269-10 | 8 | Washer-Back |
| 55 | 105-9829 | 1 | Seal-Foam |
| 56 | 3290-55 | 4 | Rivet-Pop |
| 57 | 3269-15 | 2 | Rivet |
| 58 | 3249-3 | 2 | Screw |
| 59 | 3256-53 | 2 | Washer-Flat |
| 60 | 3296-9 | 2 | Nut-Lock |




# Steering Tower Assembly

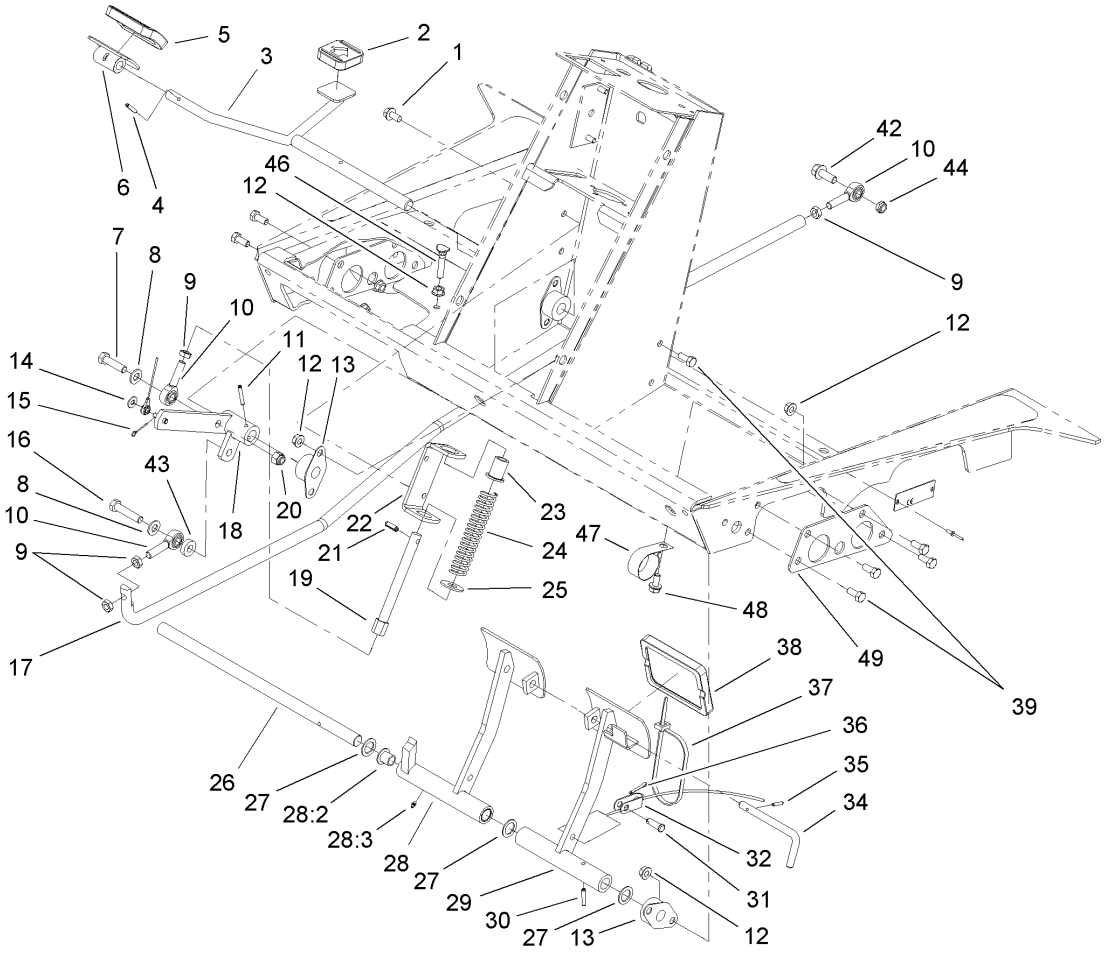
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 98-1459 | 1 | Decal |
| 2 | 107-2562 | 1 | Nut-Hex |
| 3 | 98-1471 | 1 | Wheel-Steering |
| 3:1 | 98-1468 | 1 | Cover-Wheel, Steering |
| 4 | 233-17 | 1 | Knob |
| 5 | 21-9260 | 1 | Cover-Dust |
| 6 | 33103-016 | 3 | Screw-HHF |
| 7 | 75-6550 | 1 | Disc-Friction |
| 9 | 3272-2 | 1 | Pin-Cotter |
| 10 | 75-6580 | 1 | Cable-Pedal |
| 11 | 3256-22 | 6 | Washer-Flat |
| 12 | 3296-59 | 1 | Nut-Lock, NI |
| 13 | 3290-461 | 1 | Washer-Spring |
| 14 | 95-7151 | 1 | Tube-Convoluted |
| 15 | 75-6510 | 1 | Bracket-Lever |
| 16 | 94-9951 | 1 | Column-Steering |
| 17 | 114-5074 | 1 | Steering Control ASM |
| 18 | 100-8071 | 1 | Lamp-Warning |
| 19 | 100-8070 | 1 | Lamp-Warning |
| 20 | 233-42 | 1 | Knob |
| 21 | 75-6490 | 1 | Lever ASM |
| 23 | 75-2810 | 1 | Bracket-Column, Steering |
| 24 | 3234-7 | 6 | Screw-HHF |
| 25 | 95-1821-03 | 1 | Spring-Compression |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 29 | 3272-5 | 3 | Pin-Cotter |
| 30 | 104-1492 | 1 | Rod ASM |
| 31 | 62-5550 | 1 | Decal |
| 32 | 93-7996-01 | 1 | Cover-Tower |
| 33 | 3272-10 | 1 | Pin-Cotter |
| 34 | 3256-26 | 2 | Washer-Flat |
| 35 | 63-7900-03 | 1 | Rack ASM |
| 36 | 340-2 | 5 | Fitting-HYD, Straight |
| 36:1 | 237-22 | 1 | O-Ring |
| 36:2 | 237-42 | 1 | O-Ring |
| 37 | 100-1270 | 1 | Switch-Proximity |
| 39 | 100-4872 | 1 | Plate-Switch, Neutral |
| 40 | 3229-34 | 1 | Bolt-CARR |
| 42 | 3296-2 | 1 | Nut-Lock |
| 44 | 87-6620 | 2 | Screw |
| 45 | 3256-1 | 2 | Washer-Flat |
| 46 | 105-9232-03 | 1 | Plate-Instrument |
| 48 | 32121-45 | 1 | Pin-Spring |
| 49 | 104-2541 | 1 | Switch ASM |
| 49:1 | 218-461 | 1 | Nut-HH |
| 49:2 | 3254-5 | 1 | Washer-Tooth |
| 50 | 63-8360 | 1 | Key-Ignition |
| 52 | 105-3888 | 1 | Decal-Tower |
| ❶99 | 3290-379 | 1 | Tie-Cable |




# Steering Control Assembly No. 114-5074

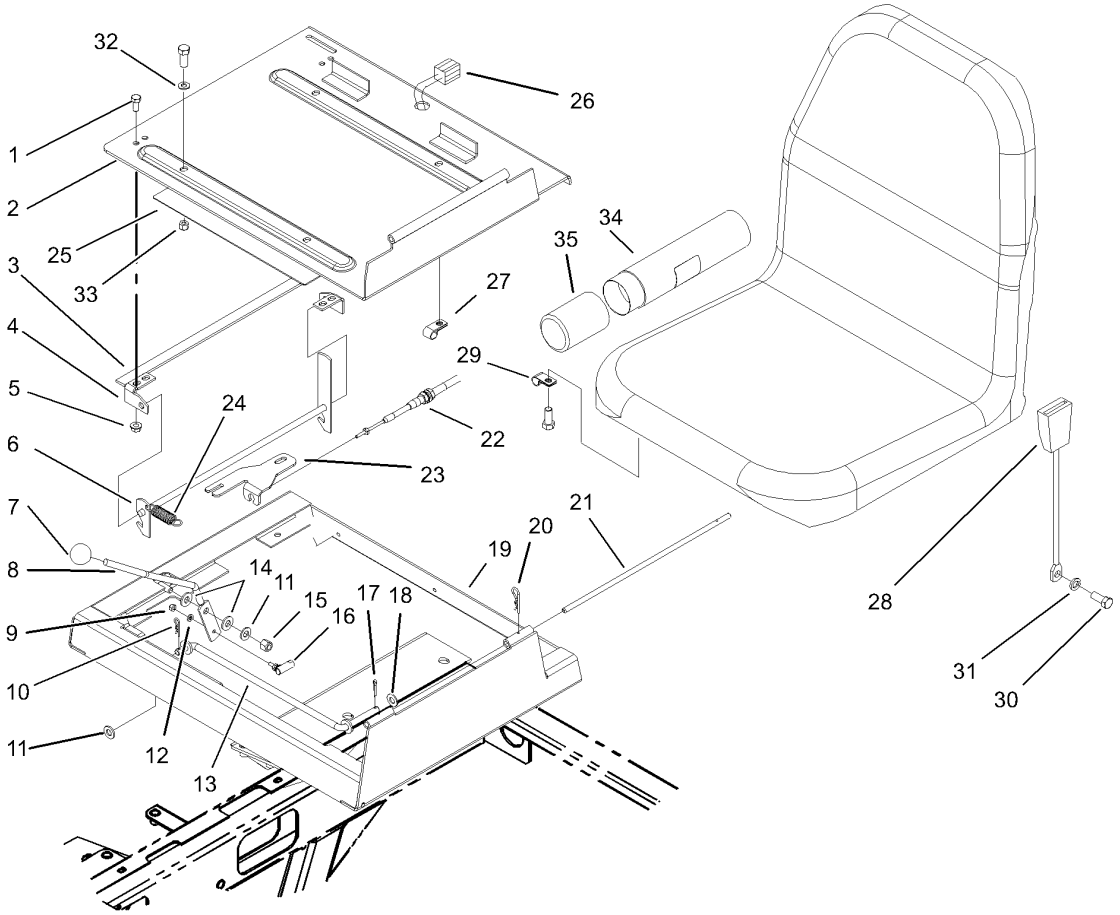
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 108-1519 | 1 | Seal Kit |




# Traction and Brake Pedal Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 32144-14 | 2 | Screw-HWHTF |
| 2 | 74-9110 | 1 | Pad-Pedal, Reverse |
| 3 | 75-2970 | 1 | Pedal-Traction |
| 4 | 32121-45 | 1 | Pin-Spring |
| 5 | 74-9100 | 1 | Pad-Pedal, Forward |
| 6 | 49-6440-03 | 1 | Pedal-Forward |
| 7 | 323-29 | 1 | Screw-HH |
| 8 | 3256-24 | 2 | Washer-Flat |
| 9 | 3220-3 | 4 | Nut-HJ |
| 10 | 2411-36 | 3 | Bearing-End, Rod |
| 11 | 32121-6 | 1 | Pin-Roll, Slotted |
| 12 | 32128-20 | 19 | Nut-HF |
| 13 | 256-236 | 4 | Bearing-Mount, Flange |
| 14 | 3256-22 | 1 | Washer-Flat |
| 15 | 3272-2 | 1 | Pin-Cotter |
| 16 | 323-9 | 1 | Screw-HH |
| 17 | 104-5632-03 | 1 | Rod-Control, Pump |
| 18 | 75-3270-03 | 1 | Hub-Pivot, Traction |
| 19 | 92-7609 | 1 | Shaft-Spring |
| 20 | 3296-39 | 2 | Nut-Lock, NI |
| 21 | 32121-11 | 1 | Pin-Roll |
| 22 | 92-7608-03 | 1 | Bracket-Spring |
| 23 | 92-7610 | 1 | Retainer-Spring |
| 24 | 84-9100 | 1 | Spring |

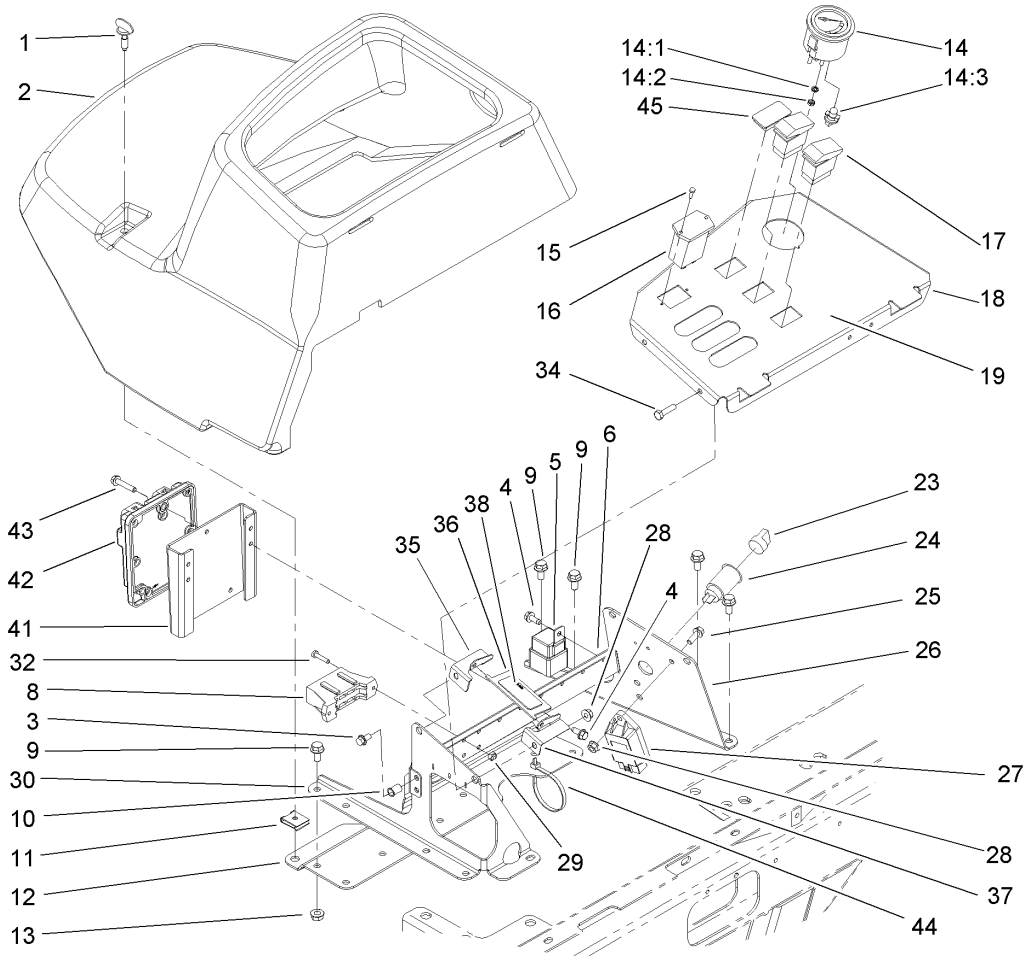
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 25 | 3256-5 | 1 | Washer-Flat |
| 26 | 75-1470 | 1 | Pin-Pivot, Brake |
| 27 | 3256-69 | 3 | Washer-Flat |
| 28 | 75-1430 | 1 | Pedal-Brake, RH |
| 28:2 | 256-42 | 2 | Bushing |
| 28:3 | 302-5 | 1 | Fitting-Grease |
| 29 | 75-1440-03 | 1 | LH Brake Pedal ASM |
| 30 | 32121-16 | 1 | Pin-Spring |
| 31 | 283-58 | 2 | Pin-Clevis |
| 32 | 92-7530 | 1 | LH Brake Cable ASM |
| ❶33 | 92-7529 | 1 | RH Brake Cable ASM |
| 34 | 63-7880 | 1 | Pin-Latch, Brake |
| 35 | 32121-50 | 1 | Pin-Spring |
| 36 | 3272-10 | 2 | Pin-Cotter |
| 37 | 3290-378 | 1 | Tie-Cable |
| 38 | 93-8742 | 2 | Footpad-Brake |
| 39 | 322-3 | 15 | Screw-HH |
| 42 | 3234-11 | 1 | Screw-HHF |
| 43 | 5-0652 | 1 | Spacer |
| 44 | 3296-59 | 1 | Nut-Lock, NI |
| 46 | 17-9420 | 2 | Screw-Handle |
| 47 | 2412-150 | 1 | Clip-J |
| 48 | 3234-14 | 1 | Screw-HHF |
| 49 | 106-7794-01 | 2 | Plate-Mount, HYD Fitting |




# Throttle and Seat Frame Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 322-3 | 8 | Screw-HH |
| 2 | 98-2350-03 | 1 | Seat Plate ASM |
| 3 | 94-8146 | 1 | Strip-Foam |
| 4 | 98-2353 | 2 | Bracket-Latch, Seat |
| 5 | 32128-25 | 4 | Nut-HF |
| 6 | 98-2354-03 | 1 | Latch-Seat |
| 7 | 233-42 | 1 | Knob |
| 8 | 93-7598-03 | 1 | Lever-Throttle |
| 9 | 3296-21 | 1 | Nut-Lock, NI |
| 10 | 3290-307 | 1 | Pin-Hair |
| 11 | 3256-24 | 3 | Washer-Flat |
| 12 | 3256-51 | 1 | Washer-Flat |
| 13 | 75-3680-03 | 1 | Rod-Seat |
| 14 | 66-2920 | 2 | Washer-Friction |
| 15 | 3296-39 | 1 | Nut-Lock, NI |
| 16 | 2411-38 | 1 | Joint-Ball |
| 17 | 3272-10 | 1 | Pin-Cotter |
| 18 | 52-2900 | 2 | Washer-Plastic |
| 19 | 98-2352-03 | 1 | Frame-Seat |
| 20 | 3290-467 | 1 | Pin-Hair |
| 21 | 75-3400 | 1 | Shaft-Pivot, Seat |
| 22 | 104-7547 | 1 | Cable-Throttle |
| 23 | 105-3929-03 | 1 | Bracket-Cable, Throttle |
| 24 | 66-4190-03 | 1 | Spring-Idler, Clutch |

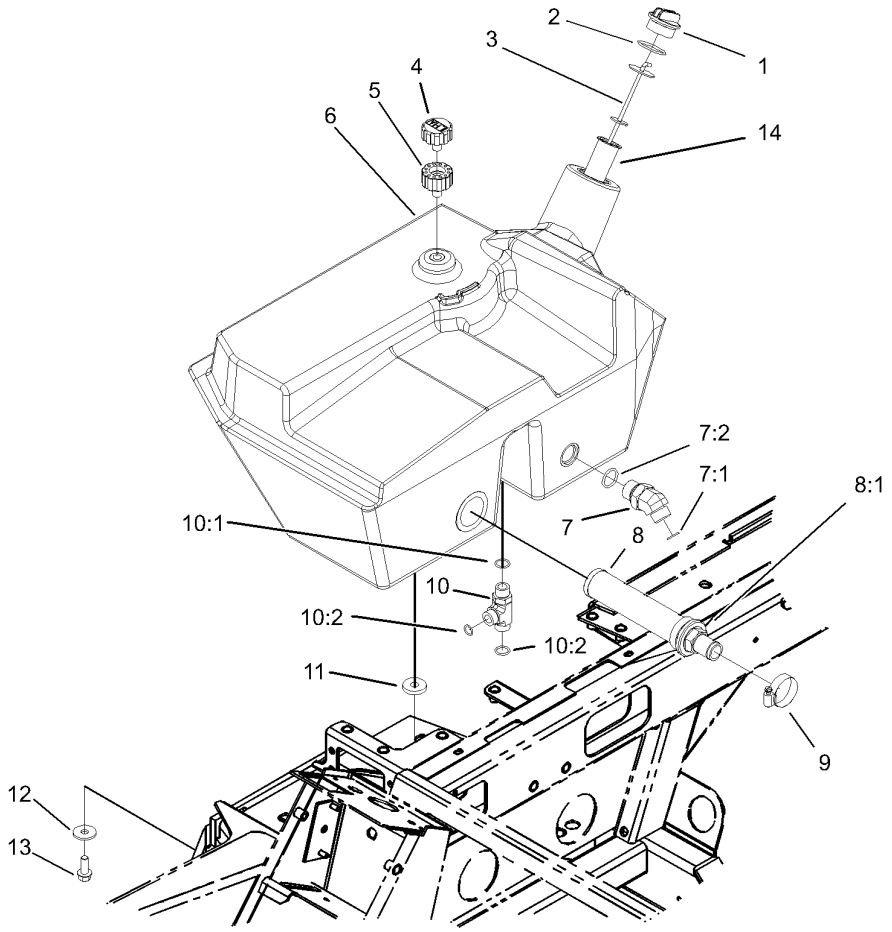
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 25 | 105-9895 | 1 | Decal-Quick Reference |
| 26 | 105-9189 | 1 | Harness-Wire, Seat Switch |
| 27 | 2412-133 | 2 | R-Clamp |
| 28 | 100-4928 | 1 | Belt-Seat |
| 29 | 2412-93 | 1 | Clamp-R |
| 30 | 3212-4 | 2 | Screw-HH |
| 31 | 3253-6 | 2 | Washer-Lock |
| 32 | 3256-23 | 4 | Washer-Flat |
| 33 | 3296-29 | 8 | Nut-Lock, NI |
| 34 | 104-7050 | 1 | Housing-Manual |
| 35 | 104-7048 | 1 | Cap-Housing |




# Control Console Assembly

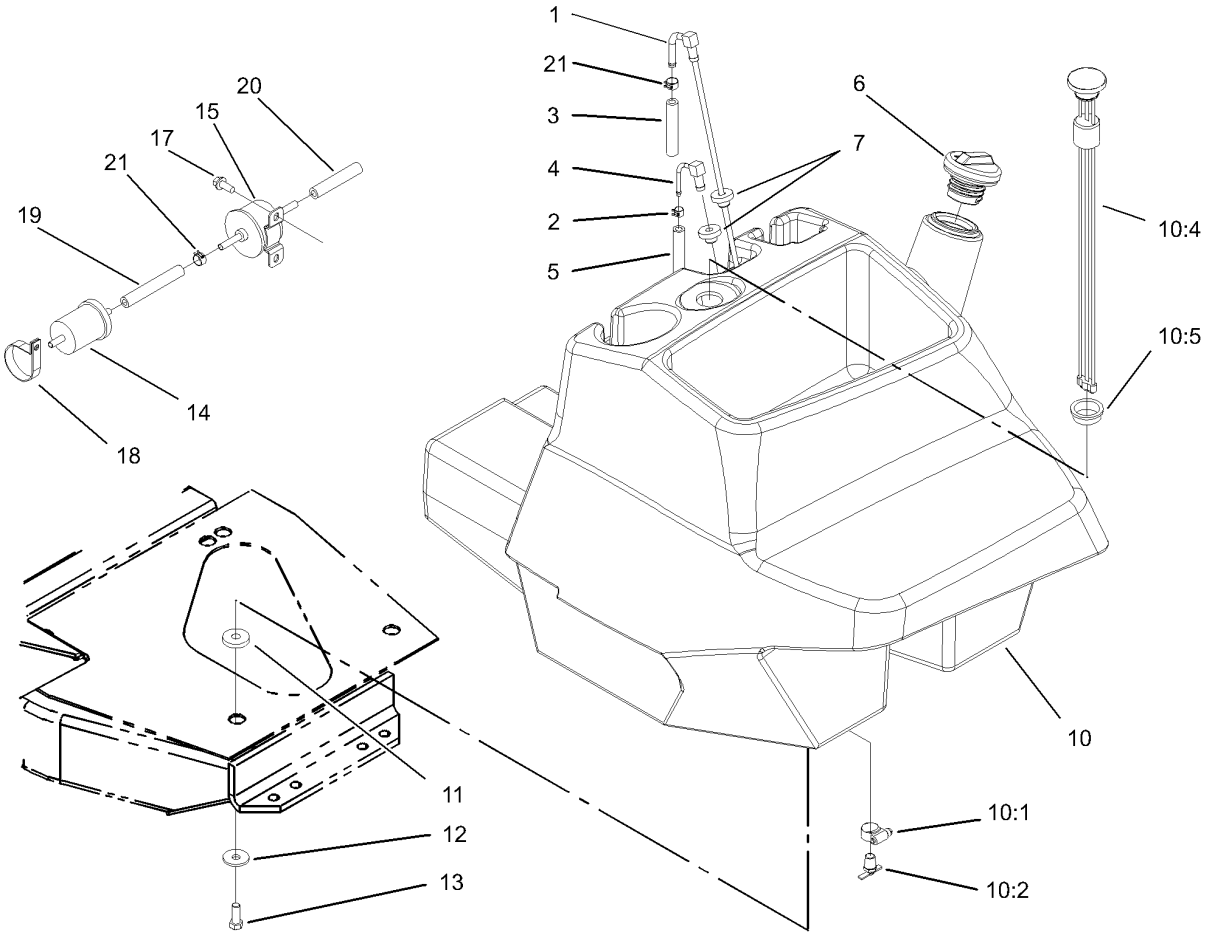
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105-9208 | 2 | Screw-Head, Wing |
| 2 | 104-5599 | 1 | Cover-Console |
| 3 | 3234-13 | 4 | Screw-HHF |
| 4 | 32144-10 | 7 | Screw-HWH |
| 5 | 99-7430 | 3 | Relay |
| 6 | 104-5613-03 | 1 | Panel-Relay |
| 8 | 105-9867 | 1 | Harness-Wire, Console |
| ❶8:2 | 218-578 | 4 | Fuse-10 Amp |
| ❶8:3 | 109355 | 1 | Fuse-15 Amp |
| ❶8:4 | 100-4918 | 1 | Diode |
| ❶8:5 | 92-3188 | 1 | Diode-Board, Circuit |
| ❶8:6 | 94-6710 | 1 | Fuse-Blade, 2 Amp |
| 9 | 3234-14 | 9 | Screw-HHF |
| 10 | 32148-6 | 6 | Insert-Nut |
| 11 | 105-9209 | 2 | Recepticle-Clip On |
| 12 | 104-5612-03 | 1 | Support-Cover |
| 13 | 32128-20 | 4 | Nut-HF |
| 14 | 98-9308 | 1 | Gauge-Temperature |
| 14:1 | 3254-1 | 3 | Washer-Lock, Int |
| 14:2 | 3217-27 | 3 | Nut-Hex |
| 14:3 | 105-9265 | 1 | Bulb And Lamp ASM |
| 15 | 32144-18 | 2 | Screw-HH |
| 16 | 75-6820 | 1 | Hourmeter |
| 17 | 95-8999 | 2 | Switch |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 18 | 108-4043-03 | 1 | Dash |
| ❶19 | 105-9223 | 1 | Decal-Console, Ce |
| 19 | 108-4044 | 1 | Decal-Console |
| 23 | 99-7416 | 1 | Cap |
| 24 | 99-7411 | 1 | Point-Power |
| 25 | 3234-4 | 1 | Screw-HHF |
| 26 | 104-5610-03 | 1 | Panel-Dash, Rear |
| 27 | 98-7611 | 1 | Controller-Glow |
| 28 | 32128-33 | 3 | Nut-HF |
| 29 | 3296-2 | 6 | Nut-Lock |
| 30 | 104-5609-03 | 1 | Panel-Dash, Front |
| ❶31 | 105-3986 | 1 | Module-Control, Deck |
| 32 | 32105-13 | 6 | Screw-HWH |
| 34 | 321-6 | 2 | Screw-HH |
| 35 | 105-9840 | 1 | Bracket-Latch, RH |
| 36 | 105-9842 | 1 | Plate-Latch, Ce |
| 37 | 105-9841 | 1 | Bracket-Latch, LH |
| 38 | 105-9830 | 1 | Decal-Lever Lock, Ce |
| 41 | 105-9873-03 | 1 | Bracket-Module |
| 42 | 106-9277 | 1 | Module-Control, Standard |
| 43 | 32144-110 | 3 | Screw-HWH |
| 44 | 3290-379 | 5 | Tie-Cable |
| 45 | 99-7420 | 1 | Plug-Hole |



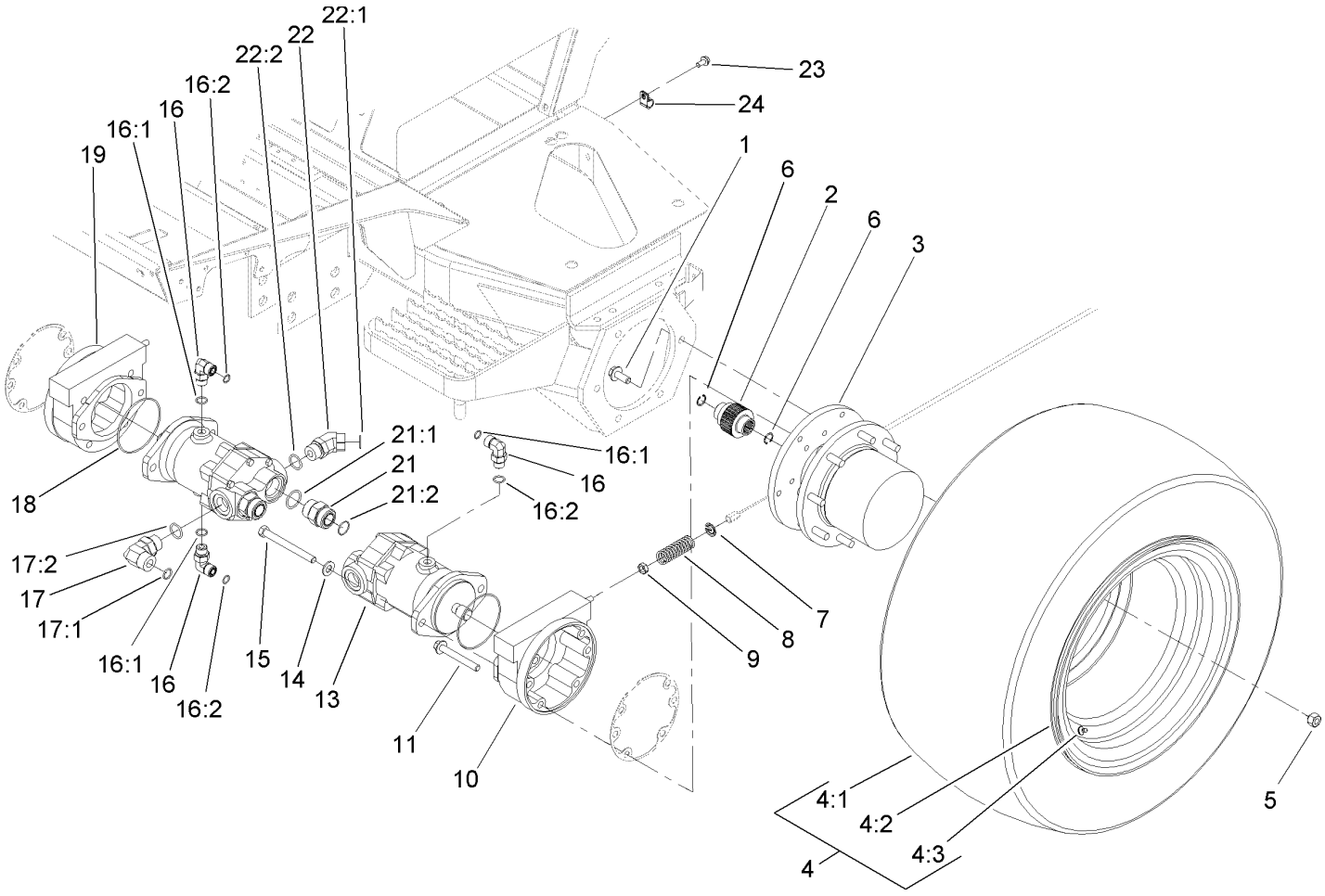

# Hydraulic Filter and Reservoir Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 93-7498 | 1 | Plug-Plastic |
| 2 | 94-8166 | 1 | O-Ring |
| 3 | 75-3710 | 1 | Dipstick |
| 4 | 68-6150 | 1 | Breather |
| 5 | 92-8020 | 1 | Adapter-Breather |
| 6 | 104-5600 | 1 | Tank-HYD |
| 7 | 340-156 | 1 | Fitting-HYD |
| 7:1 | 237-65 | 1 | O-Ring |
| 7:2 | 237-81 | 1 | O-Ring |
| 8 | 104-7546 | 1 | Strainer-Tank |
| 8:1 | 340-136 | 1 | O-Ring |
| 9 | 2412-111 | 2 | Clamp |
| 10 | 340-109 | 1 | Fitting-HYD, Tee |
| 10:1 | 237-79 | 1 | O-Ring |
| 10:2 | 237-30 | 2 | O-Ring |
| 11 | 240-11 | 3 | Bushing-Flange |
| 12 | 63-8410 | 3 | Washer |
| 13 | 3234-11 | 3 | Screw-HHF |
| 14 | 61-2790 | 1 | Filter-Screen |




# Fuel Tank and Filter Assembly

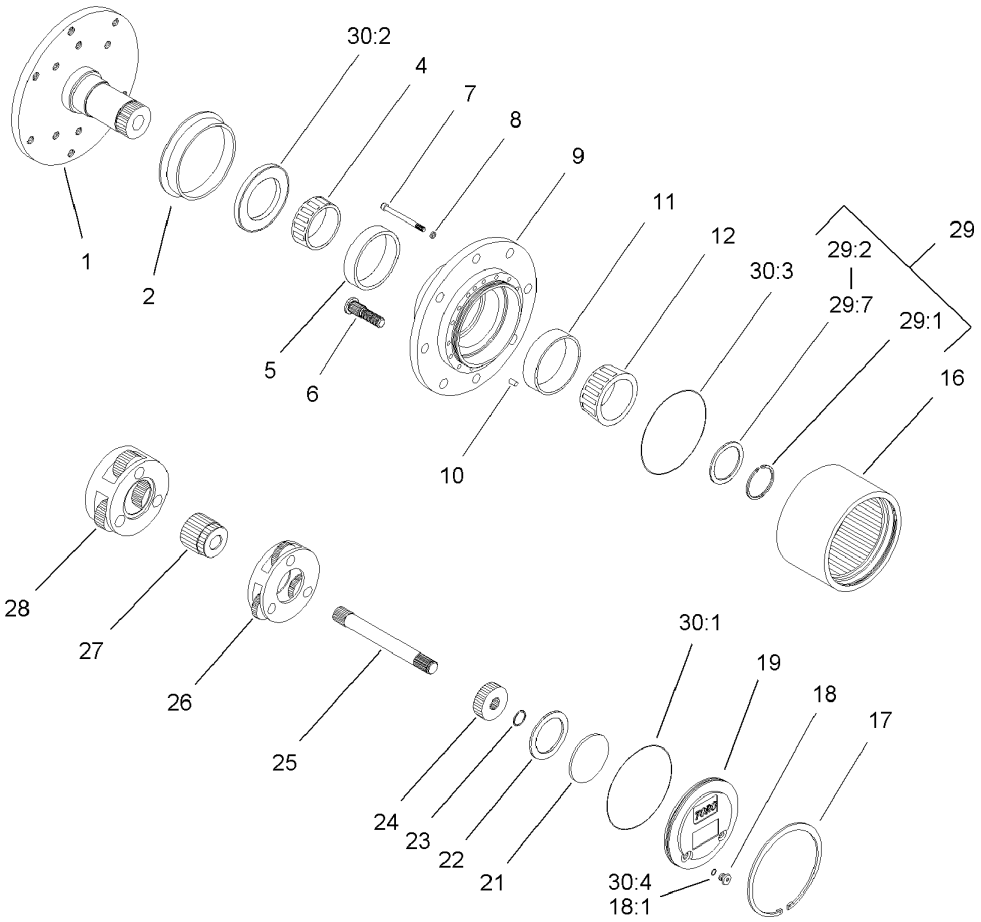
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-5604 | 1 | Fitting-Suction |
| 2 | 2412-80 | 2 | Clamp-Line, Fuel |
| 3 | 39-1120 | 1 | Hose-Fuel |
| 4 | 104-5605 | 1 | Fitting-Return |
| 5 | 105-9242 | 1 | Hose-Fuel |
| 6 | 93-3102 | 1 | Cap-Fuel |
| 7 | 46-6560 | 2 | Bushing |
| 10 | 104-5601 | 1 | Fuel Tank ASM |
| 10:1 | 2412-36 | 1 | Clamp-Hose |
| 10:2 | 304-46 | 1 | Draincock |
| 10:4 | 104-5603 | 1 | Gauge-Level, Fuel |
| 10:5 | 95-8972 | 1 | Grommet |
| 11 | 240-11 | 4 | Bushing-Flange |
| 12 | 63-8410 | 4 | Washer |
| 13 | 3234-11 | 4 | Screw-HHF |
| 14 | 98-7612 | 1 | Filter-Fuel |
| 15 | 107-0122 | 1 | Pump-Fuel, Electric |
| 17 | 32144-10 | 3 | Screw-HWH |
| 18 | 2412-148 | 1 | Clamp-R |
| 19 | 105-9196 | 1 | Hose-Fuel |
| 20 | 93-2230 | 1 | Hose-Fuel |
| 21 | 92-2379 | 5 | Clamp-Hose |




# Front Drive and Brake Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 33106-030 | 12 | Screw-HHF |
| 2 | 100-3046 | 2 | Shaft-Brake, Splined |
| 3 | 105-4500-03 | 2 | Planetary ASM |
| ❷4 | | 2 | Wheel And Tire ASM |
| 4:1 | 95-3465 | 1 | Tire |
| 4:2 | 95-3464 | 1 | Rim |
| 4:3 | 232-24 | 1 | Stem-Valve |
| 5 | 92-7483 | 16 | Nut-Lug |
| 6 | 93-7972 | 4 | Ring-Retaining, Internal |
| 7 | 94-3050 | 2 | Plate-Spring |
| 8 | 94-3088 | 2 | Spring-Compression |
| 9 | 3218-4 | 2 | Nut-Jam |
| 10 | 100-3070-03 | 1 | Brake ASM |
| 11 | 33106-090 | 8 | Screw-HHF |
| 13 | 105-1218 | 2 | Motor-Piston |
| 14 | 3256-26 | 4 | Washer-Flat |
| 15 | 33116-120 | 4 | Screw-HH |
| 16 | 340-98 | 3 | Fitting-HYD, 90 DEG |
| 16:1 | 237-79 | 1 | O-Ring |
| 16:2 | 237-30 | 1 | O-Ring |
| 17 | 340-142 | 2 | Fitting-HYD, 90 DEG |
| 17:1 | 237-58 | 1 | O-Ring |
| 17:2 | 237-81 | 1 | O-Ring |
| 18 | 237-166 | 2 | O-Ring |

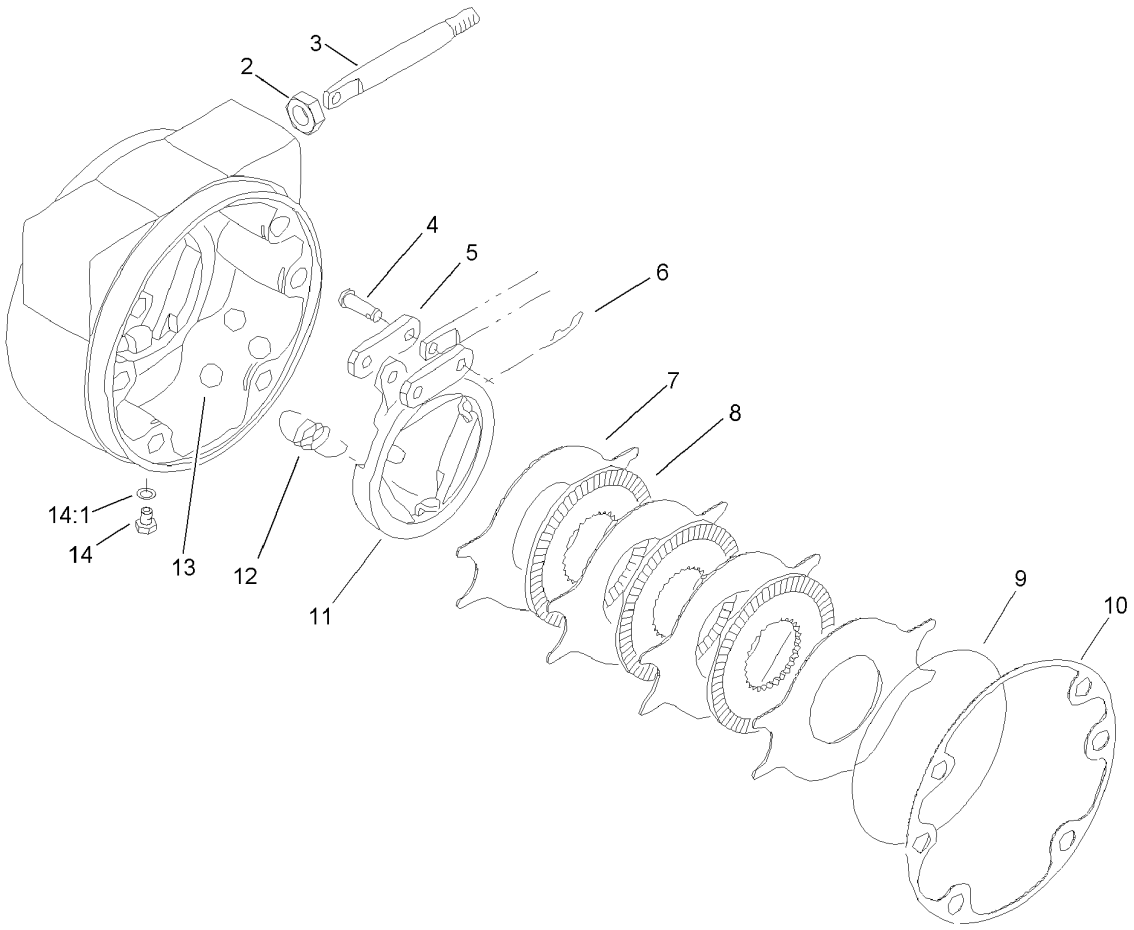
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 19 | 100-3069-03 | 1 | Brake ASM |
| 21 | 104-3797 | 4 | Fitting-HYD, Straight |
| 21:1 | 237-146 | 1 | O-Ring |
| 21:2 | 340-65 | 1 | O-Ring |
| 22 | 100-5530 | 2 | Fitting-HYD, 45 DEG |
| 22:1 | 237-58 | 1 | O-Ring |
| 22:2 | 237-81 | 1 | O-Ring |
| 23 | 32144-14 | 2 | Screw-HWHTF |
| 24 | 2412-93 | 2 | Clamp-R |




# Planetary Assembly No. 105-4500-03

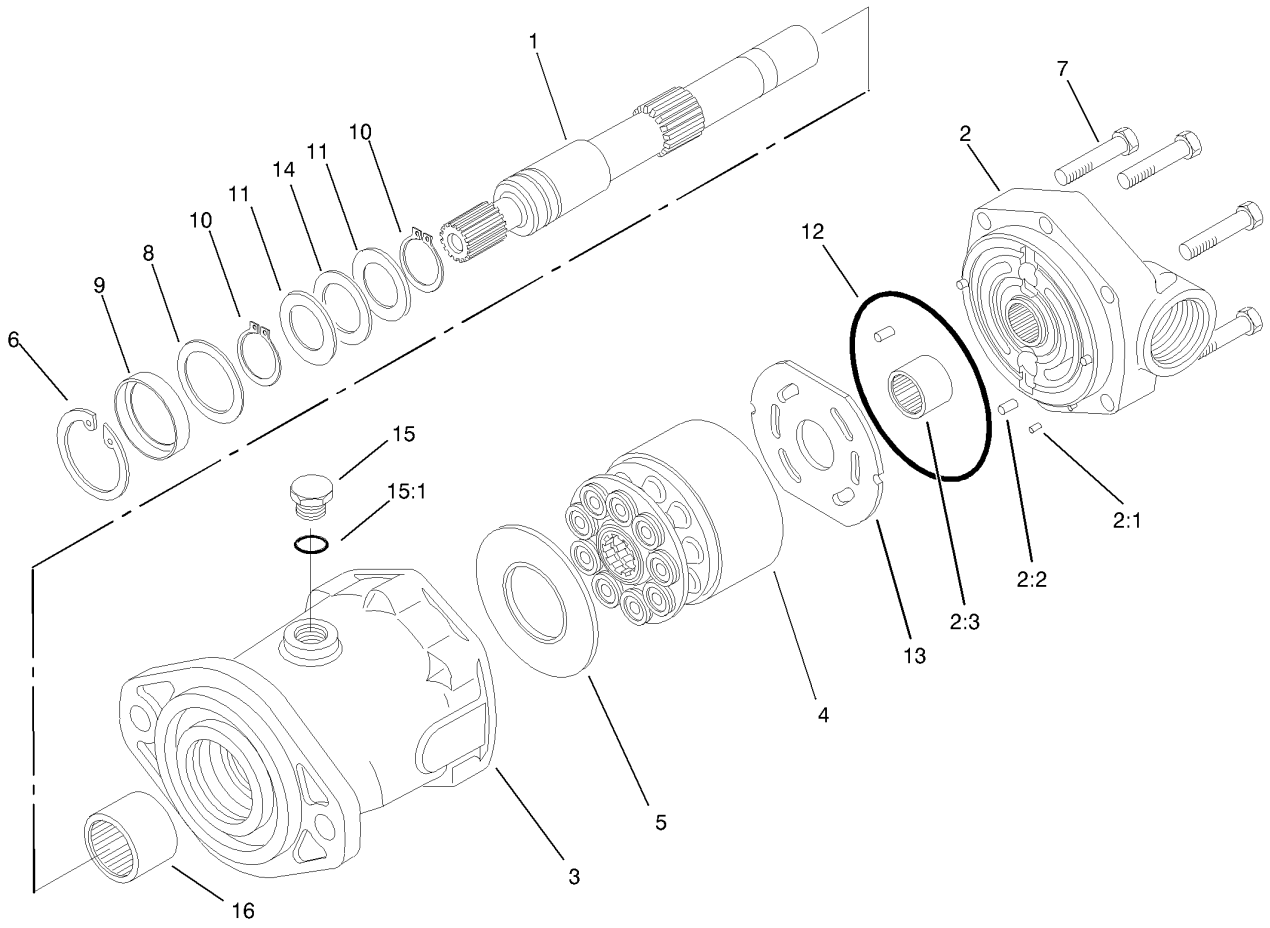
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❷1 | | 1 | Spindle |
| 2 | 105-8122 | 1 | Seal-Boot |
| 4 | 105-8120 | 1 | Bearing-Cone |
| 5 | 105-8119 | 1 | Bearing-Cup |
| 6 | 105-8124 | 8 | Stud-Wheel |
| 7 | 105-8125 | 16 | Bolt-Head, Socket |
| 8 | 3253-18 | 16 | Washer-Lock |
| ❷9 | | 1 | Housing |
| 10 | 105-8121 | 1 | Pin-Dowel |
| 11 | 105-8117 | 1 | Bearing-Cup |
| 12 | 105-8118 | 1 | Bearing-Cone |
| 16 | 105-8113 | 1 | Gear-Ring |
| 17 | 105-8132 | 1 | Ring-Retaining |
| 18 | 353-990 | 2 | Plug |
| 18:1 | 237-78 | 1 | O-Ring |
| 19 | 105-8138 | 1 | Cap-End |
| 21 | 105-8133 | 1 | Plug-Thrust |
| 22 | 105-8123 | 1 | Washer-Thrust |
| 23 | 105-8131 | 1 | Ring-Retaining |
| 24 | 105-8114 | 1 | Gear-Primary |
| 25 | 105-8115 | 1 | Shaft-Drive |
| 26 | 105-8129 | 1 | Primary Carrier ASM |
| 27 | 105-8139 | 1 | Gear-Secondary |
| 28 | 105-8130 | 1 | Secondary Carrier ASM |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 29 | 105-8136 | 1 | Shim Kit |
| ❷29:1 | | 1 | Ring-Snap |
| ❷29:2 | | 1 | Shim-Bearing, 2.9Mm |
| ❷29:3 | | 1 | Shim-Bearing, 2.8Mm |
| ❷29:4 | | 1 | Shim-Bearing, 2.7Mm |
| ❷29:5 | | 1 | Shim-Bearing, 2.6Mm |
| ❷29:6 | | 1 | Shim-Bearing, 2.5Mm |
| ❷29:7 | | 1 | Shim-Bearing, 2.4Mm |
| ❶30 | 105-8137 | 1 | Seal Kit |
| ❷30:1 | | 1 | O Ring-Flange Cap |
| ❷30:2 | | 1 | Seal-Oil |
| ❷30:3 | | 2 | O Ring-End Cap |
| 30:4 | 237-78 | 2 | O-Ring |



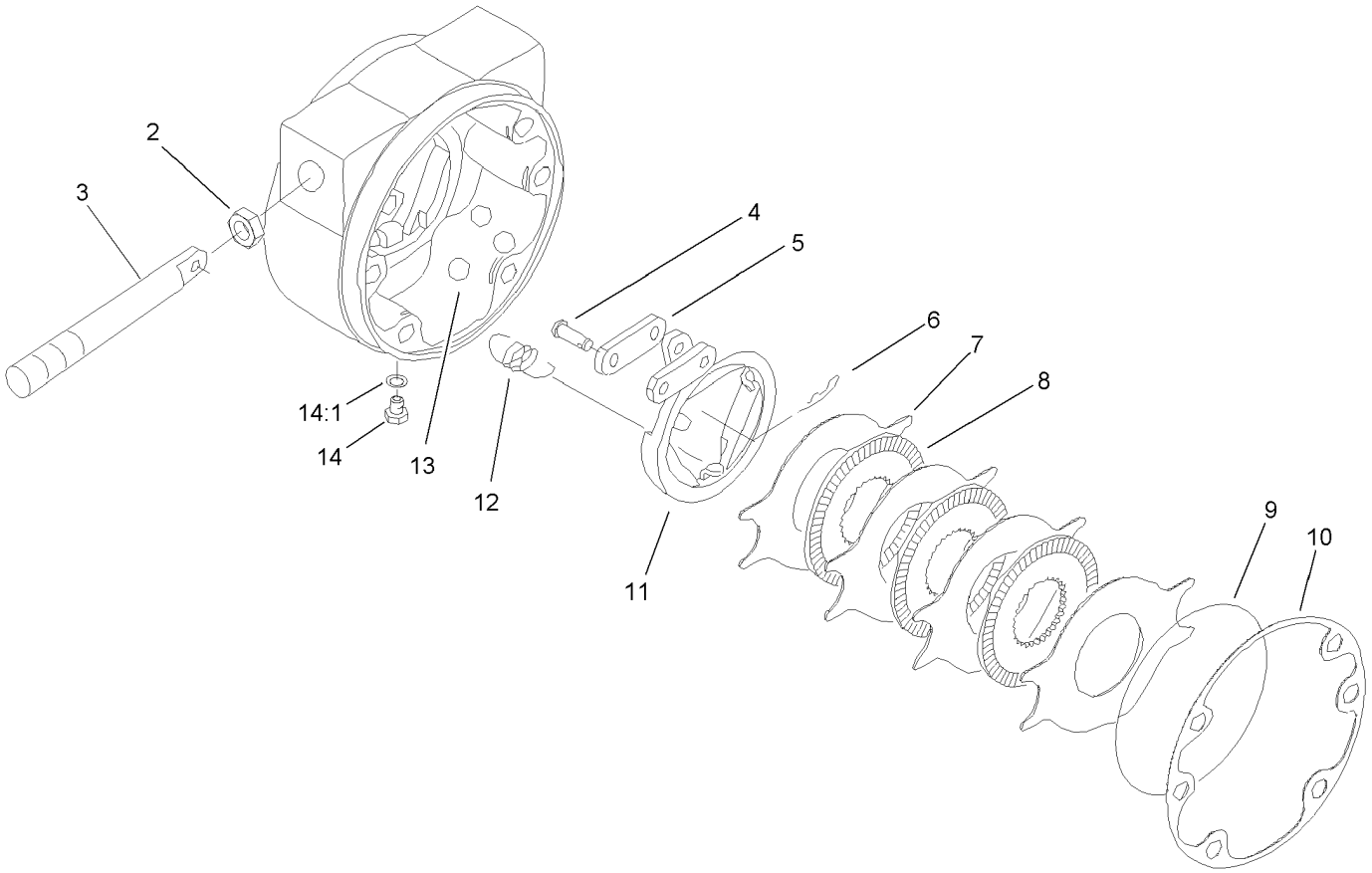

# Brake Assembly No. 100-3070-03

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 2 | 93-7977 | 1 | Seal |
| 3 | 93-7978 | 1 | Rod-Pull |
| 4 | 93-7983 | 2 | Pin-Clevis |
| 5 | 93-7980 | 2 | Link |
| 6 | 93-7979 | 2 | Pin-Hitch |
| 7 | 93-7986 | 4 | Disc-Stationary |
| 8 | 104-4278 | 3 | Disc-Rotating |
| 9 | 93-7976 | 1 | Ring-Retaining |
| 10 | 93-7984 | 1 | Gasket |
| 11 | 104-4279 | 1 | Actuator-Rotating |
| 12 | 93-7987 | 3 | Spring-Extension |
| 13 | 93-7985 | 3 | Ball |
| 14 | 353-990 | 2 | Plug |
| 14:1 | 237-78 | 1 | O-Ring |



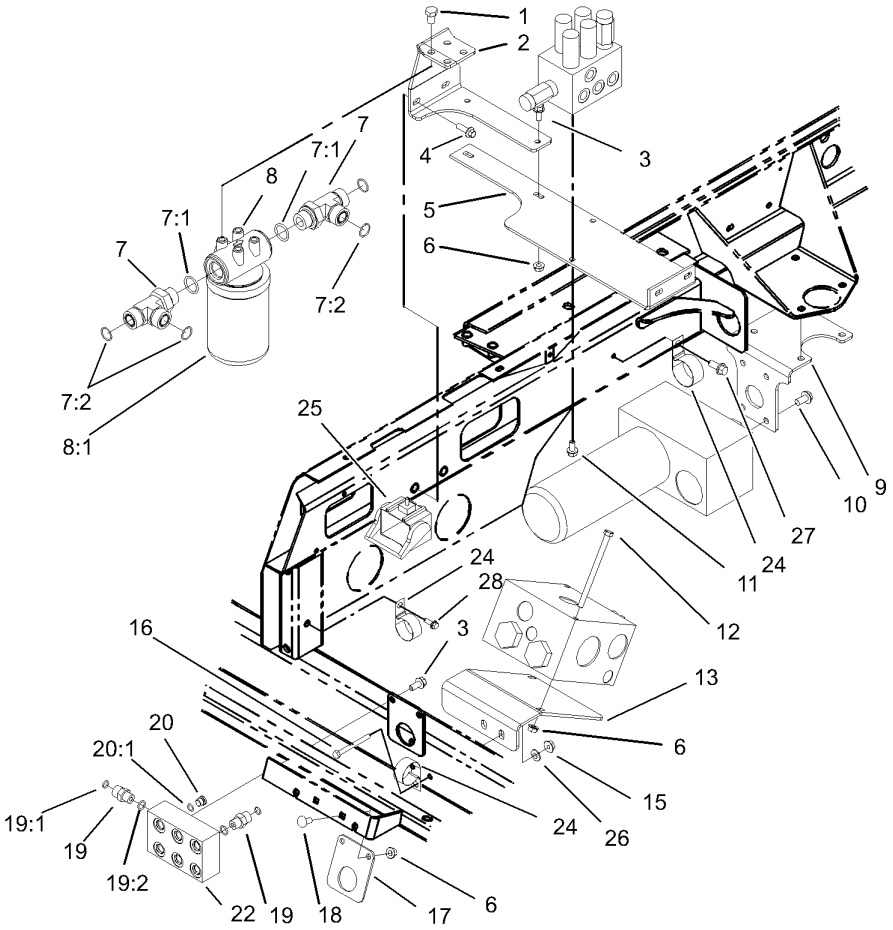

# Piston Motor Assembly No. 105-1218

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 94-3004 | 1 | Shaft-Drive, Splined |
| 2 | 105-2851 | 1 | Backplate ASM |
| ❷2:1 | | 3 | Pin-Dowel |
| ❷2:2 | | 1 | Pin-Dowel |
| ❷2:3 | | 1 | Bearing-Needle |
| ❷3 | | 1 | Housing |
| 4 | 76-6910 | 1 | Rotating Kit |
| 5 | 76-6970 | 1 | Insert-Plate, Cam |
| 6 | 60-6260 | 1 | Ring |
| 7 | 94-3002 | 6 | Capscrew |
| 8 | 60-6240 | 1 | Washer |
| 9 | 105-3331 | 1 | Seal-Shaft |
| 10 | 76-7000 | 2 | Ring-Retaining |
| 11 | 76-6950 | 2 | Race-Thrust |
| 12 | 76-6980 | 1 | O-Ring |
| 13 | 94-3003 | 1 | Plate-Valve |
| 14 | 76-6960 | 1 | Bearing-Thrust |
| 15 | 353-550 | 1 | Plug-HYD, HH |
| 15:1 | 237-79 | 1 | O-Ring |
| 16 | 63-4390 | 1 | Bearing-Needle |




# Brake Assembly No. 100-3069-03

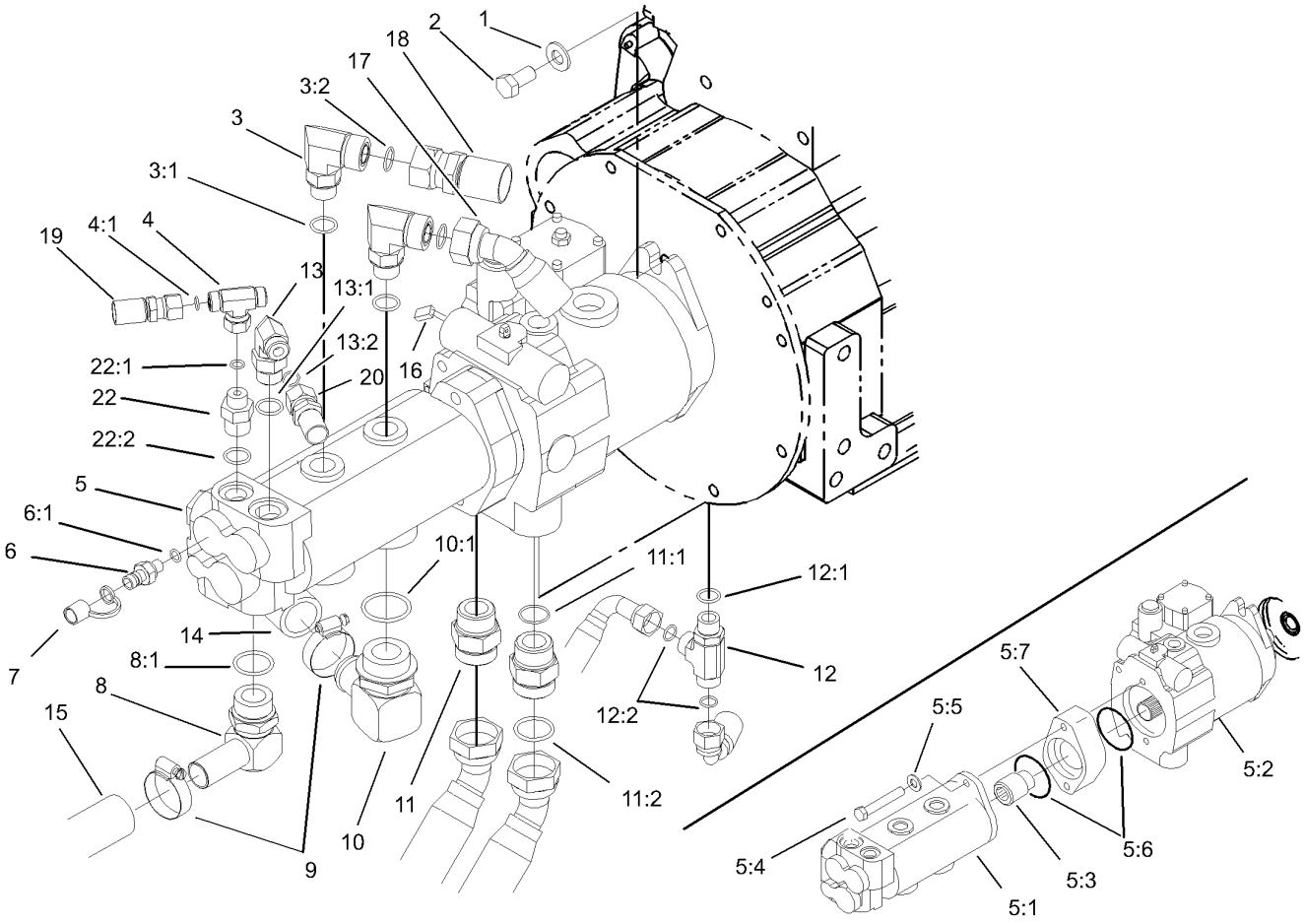
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 2 | 93-7977 | 1 | Seal |
| 3 | 93-7978 | 1 | Rod-Pull |
| 4 | 93-7983 | 2 | Pin-Clevis |
| 5 | 93-7980 | 2 | Link |
| 6 | 93-7979 | 2 | Pin-Hitch |
| 7 | 93-7986 | 4 | Disc-Stationary |
| 8 | 104-4278 | 3 | Disc-Rotating |
| 9 | 93-7976 | 1 | Ring-Retaining |
| 10 | 93-7984 | 1 | Gasket |
| 11 | 104-4280 | 1 | Actuator-Rotating |
| 12 | 93-7987 | 3 | Spring-Extension |
| 13 | 93-7985 | 3 | Ball |
| 14 | 353-990 | 2 | Plug |
| 14:1 | 237-78 | 1 | O-Ring |




# Manifold Mounting and Fitting Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 33115-016 | 4 | Screw-HH |
| 2 | 104-5492-03 | 1 | Bracket-Mount, Filter |
| 3 | 3234-5 | 4 | Screw-HHF |
| 4 | 3234-17 | 4 | Screw-HHF |
| 5 | 104-5493-03 | 1 | Bracket-Mount, Valve |
| 6 | 32128-20 | 6 | Nut-HF |
| 7 | 340-148 | 2 | Fitting-Tee |
| 7:1 | 237-81 | 1 | O-Ring |
| 7:2 | 237-58 | 2 | O-Ring |
| 8 | 93-2242 | 1 | Oil Filter ASM |
| 8:1 | 75-1310 | 1 | Element-Filter |
| 9 | 104-5471-03 | 1 | Bracket-Valve, Filter |
| 10 | 3234-1 | 4 | Screw-HHF |
| 11 | 3234-14 | 2 | Screw-HHF |
| 12 | 322-48 | 2 | Screw-HH |
| 13 | 104-5467-03 | 1 | Bracket-Mount, Valve |
| 15 | 32128-33 | 2 | Nut-HF |
| 16 | 321-14 | 2 | Screw-HH |
| 17 | 104-5516-01 | 1 | Support-Tube |
| 18 | 3230-23 | 2 | Screw-CARR |
| 19 | 340-2 | 4 | Fitting-HYD, Straight |
| 19:1 | 237-22 | 1 | O-Ring |
| 19:2 | 237-42 | 1 | O-Ring |
| 20 | 353-990 | 1 | Plug |

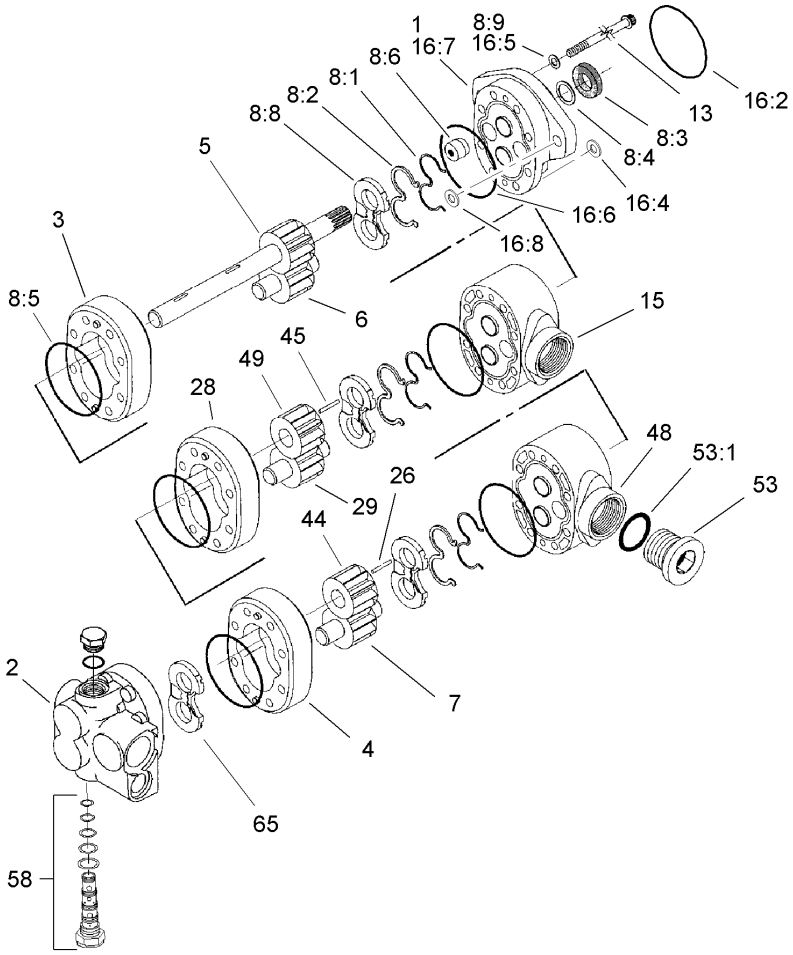
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 20:1 | 237-78 | 1 | O-Ring |
| 22 | 104-5515 | 1 | Manifold-Junction, Lift |
| 24 | 2412-150 | 3 | Clip-J |
| 25 | 105-9868 | 1 | Harness-Wire, Main |
| ❶25:1 | 100-4918 | 1 | Diode |
| 26 | 3256-22 | 2 | Washer-Flat |
| 27 | 32144-14 | 1 | Screw-HWHTF |
| 28 | 3234-4 | 1 | Screw-HHF |




# Hydraulic Pump Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 87-7270 | 2 | Washer-Thrust |
| 2 | 3213-2 | 2 | Screw-HH |
| 3 | 340-16 | 2 | Fitting-HYD, 90 DEG |
| 3:1 | 237-80 | 1 | O-Ring |
| 3:2 | 237-58 | 1 | O-Ring |
| 4 | 340-166 | 1 | Fitting-Tee, HYD |
| 4:1 | 237-22 | 1 | O-Ring |
| ❷5 | | 1 | Pump ASM |
| 5:1 | 105-9845 | 1 | Triple Pump ASM |
| 5:2 | 105-9846 | 1 | Piston Pump ASM |
| 5:3 | 74-9030 | 1 | Coupler |
| 5:4 | 323-32 | 2 | Screw-HH |
| 5:5 | 60-3540 | 2 | Washer |
| 5:6 | 60-3520 | 2 | O-Ring |
| 5:7 | 105-2869 | 1 | Spacer |
| 6 | 354-77 | 2 | Fitting-Quick |
| 6:1 | 237-78 | 1 | O-Ring |
| 7 | 354-79 | 2 | Cap-Dust |
| 8 | 56-9530 | 1 | Fitting-HYD, 90 DEG |
| 8:1 | 237-117 | 1 | O-Ring |
| 9 | 2412-111 | 2 | Clamp |
| 10 | 92-7526 | 1 | Fitting-HYD, 90 DEG |
| 10:1 | 237-101 | 1 | O-Ring |
| 11 | 104-3797 | 2 | Fitting-HYD, Straight |

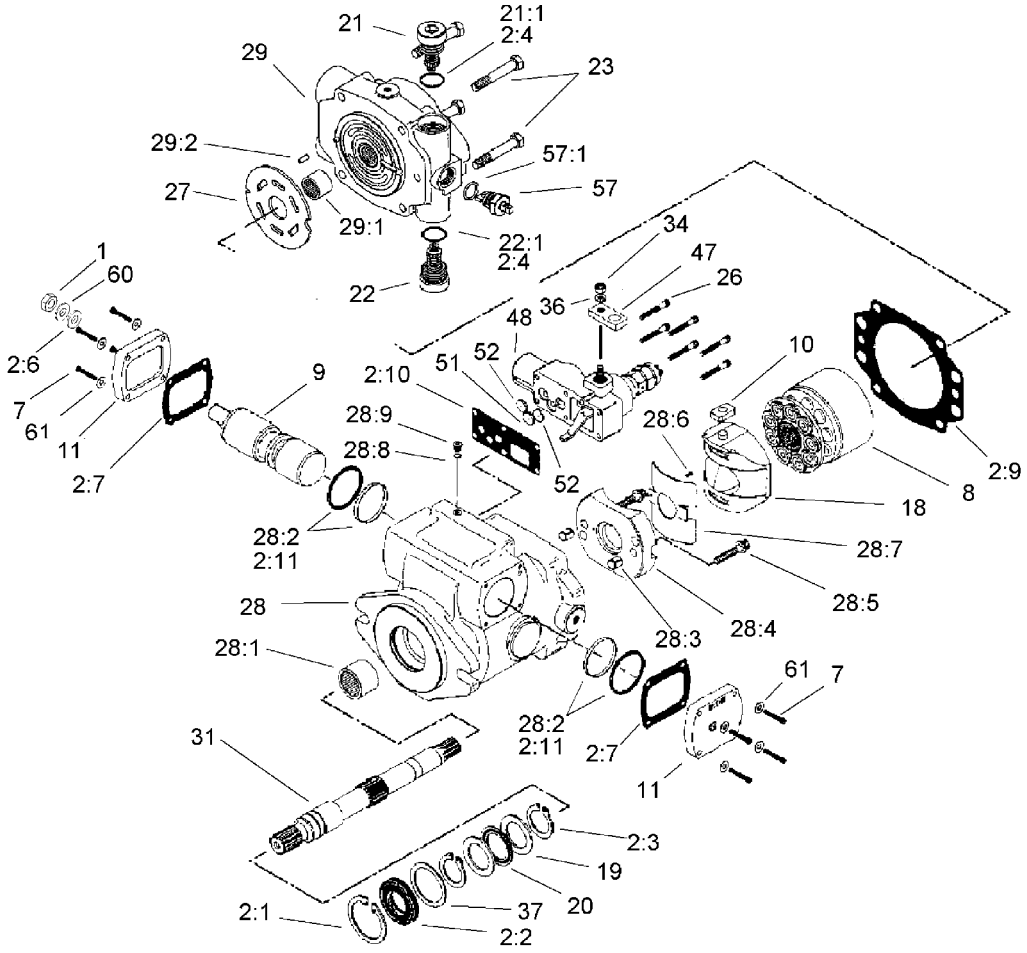
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 11:1 | 237-146 | 1 | O-Ring |
| 11:2 | 340-65 | 1 | O-Ring |
| 12 | 340-109 | 1 | Fitting-HYD, Tee |
| 12:1 | 237-79 | 1 | O-Ring |
| 12:2 | 237-30 | 2 | O-Ring |
| 13 | 340-98 | 1 | Fitting-HYD, 90 DEG |
| 13:1 | 237-79 | 1 | O-Ring |
| 13:2 | 237-30 | 1 | O-Ring |
| 14 | 104-5482 | 1 | Hose-Suction |
| 15 | 104-5484 | 1 | Hose-Suction |
| 16 | 105-0122 | 1 | Harness-Wire |
| 17 | 105-3874 | 1 | Hose ASM |
| 18 | 105-3875 | 1 | HYD Hose ASM |
| 19 | 92-7595 | 1 | Hose ASM |
| 20 | 105-3869 | 1 | Hose ASM |
| 22 | 340-141 | 1 | Fitting-HYD, Straight |
| 22:1 | 237-22 | 1 | O-Ring |
| 22:2 | 237-80 | 1 | O-Ring |




# Triple Pump Assembly No. 105-9845

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❷1 | | 1 | Front Plate ASM |
| ❷2 | | 1 | Back Plate ASM |
| ❷3 | | 1 | Body |
| ❷4 | | 1 | Body |
| ❷5 | | 1 | Drive Gear ASM |
| ❷6 | | 1 | Gear-Idler |
| ❷7 | | 1 | Gear-Idler |
| 8 | 94-3015 | 1 | Seal Kit |
| ❷8:1 | | 3 | Gasket-Back Up |
| ❷8:2 | | 3 | Seal-Balance |
| 8:3 | 49-2640 | 1 | Seal-Shaft |
| 8:4 | 60-5890 | 1 | Washer |
| ❷8:5 | | 6 | Seal-Dust |
| ❷8:6 | | 1 | Plug |
| ❷8:8 | | 3 | Plate-Wear |
| ❷8:9 | | 4 | Washer |
| 13 | 105-9849 | 8 | Capscrew |
| ❷15 | | 1 | Plate-Adaptor |
| 16 | 107-4328 | 1 | Front Plate Kit |
| ❷16:2 | | 1 | Seal-Dust |
| ❷16:4 | | 4 | Washer |
| ❷16:5 | | 4 | Washer-Crush |
| ❷16:6 | | 1 | Seal-Dust |
| ❷16:7 | | 1 | Plate-Front |

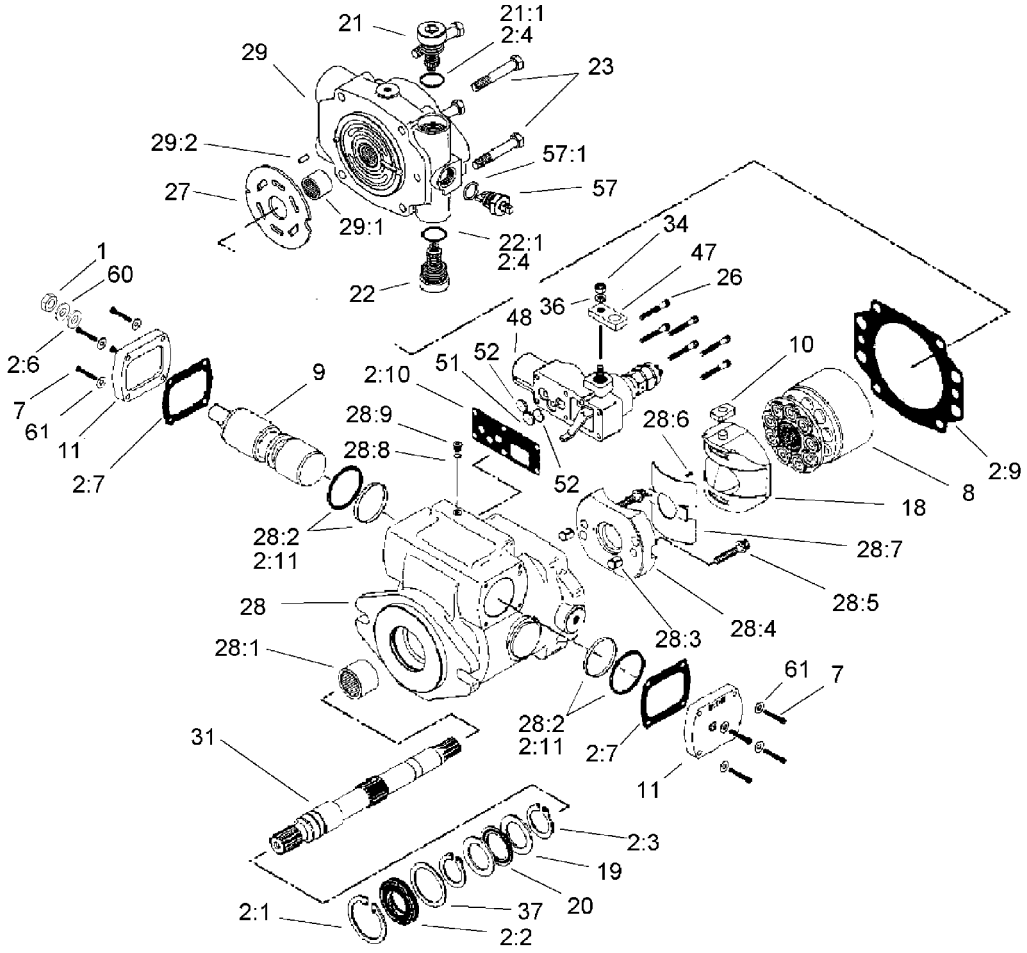
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❷16:8 | | 2 | Washer |
| ❷26 | | 1 | Key |
| ❷28 | | 1 | Body |
| ❷29 | | 1 | Gear-Idler |
| ❷44 | | 1 | Gear |
| ❷45 | | 1 | Key |
| ❷48 | | 1 | Plate-Adaptor |
| ❷49 | | 1 | Gear |
| 53 | 94-3013 | 1 | Plug |
| ❷53:1 | | 1 | Seal-Dust |
| 58 | 107-1970 | 1 | Valve-Proportional |
| ❷65 | | 1 | Plate-Thrust |




# Piston Pump Assembly No. 105-9846

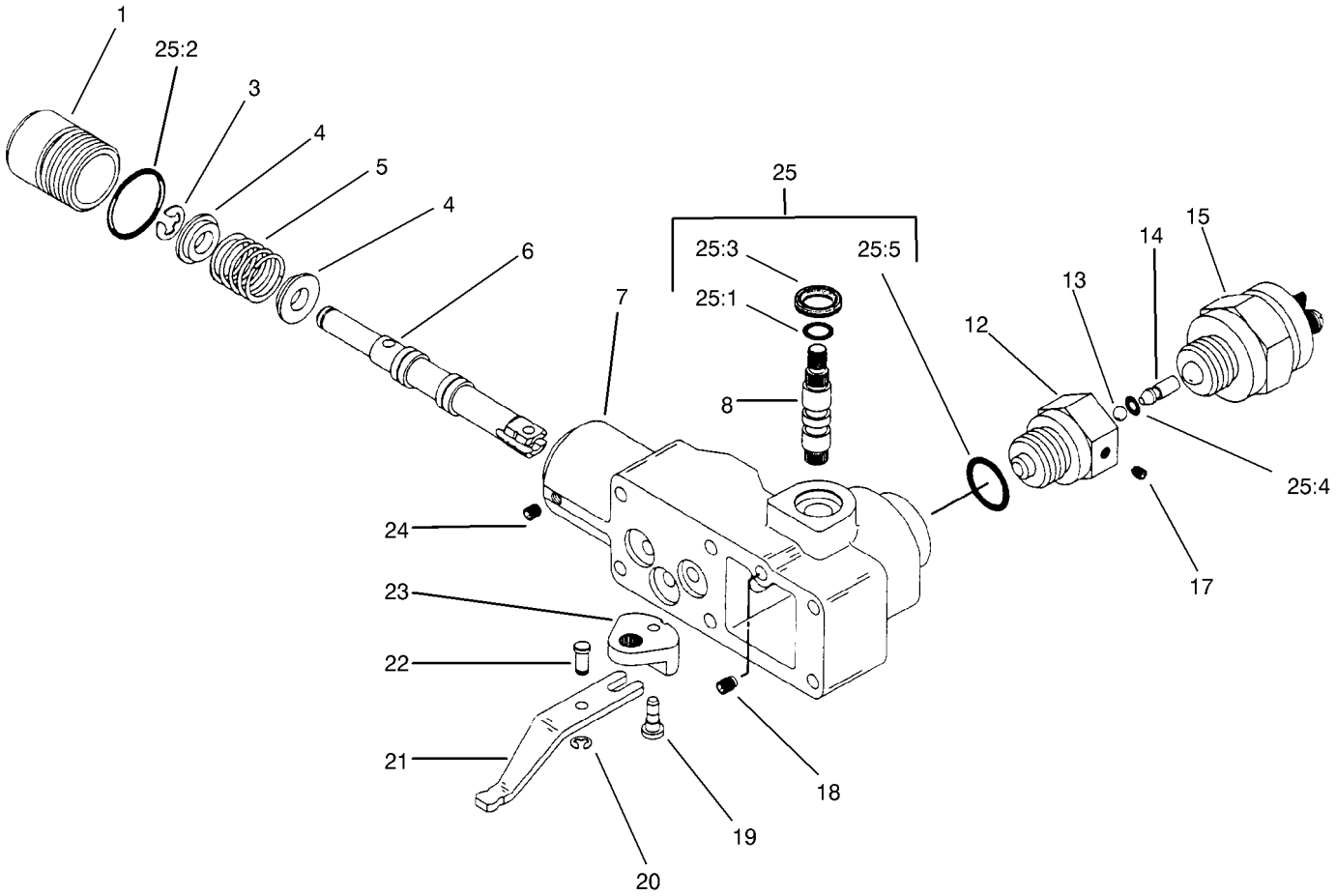
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 3220-2 | 1 | Nut-Jam |
| 2 | 107-1561 | 1 | Seal Kit |
| 2:1 | 60-6260 | 1 | Ring |
| 2:2 | 105-3331 | 1 | Seal-Shaft |
| 2:3 | 76-7000 | 2 | Ring-Retaining |
| ❷2:4 | | 2 | Seal-Dust |
| ❶2:5 | 93-6314 | 2 | O-Ring |
| 2:6 | 94-3027 | 1 | Washer-Seal |
| 2:7 | 93-6339 | 2 | Gasket |
| ❶2:8 | 105-2905 | 1 | O-Ring |
| 2:9 | 105-2900 | 1 | Gasket-Housing |
| 2:10 | 105-2901 | 1 | Gasket-Housing, Control |
| ❷2:11 | | 2 | Seal ASM |
| ❶2:12 | 74-9380 | 1 | O-Ring |
| 7 | 3274-81 | 8 | Screw-HSH |
| 8 | 105-9851 | 1 | Rotating Kit |
| 9 | 105-4572 | 1 | Servo Piston ASM |
| 10 | 94-3032 | 1 | Follower-Piston |
| 11 | 105-9853 | 1 | Plate-Cover |
| 18 | 94-3026 | 1 | Camplate ASM |
| 19 | 76-6950 | 2 | Race-Thrust |
| 20 | 76-6960 | 1 | Bearing-Thrust |
| 21 | 105-2857 | 1 | Valve-Relief |
| ❷21:1 | | 1 | Seal-Dust |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 22 | 105-2857 | 1 | Valve-Relief |
| ❷22:1 | | 1 | Seal-Dust |
| 23 | 323-45 | 4 | Screw-HH |
| 26 | 3274-59 | 6 | Screw-HSH |
| 27 | 105-9854 | 1 | Plate-Valve |
| 28 | 105-9855 | 1 | Housing ASM |
| ❷28:1 | | 1 | Bearing |
| ❷28:2 | | 2 | Seal ASM |
| ❷28:3 | | 2 | Dowel-Bushing |
| ❷28:4 | | 1 | Cradle ASM |
| ❷28:5 | | 2 | Screw |
| ❷28:6 | | 1 | Screw |
| ❷28:7 | | 1 | Bushing |
| ❷28:8 | | 1 | Seal-Dust |
| ❷28:9 | | 1 | Plug |
| 29 | 105-9856 | 1 | Backplate ASM |
| ❷29:1 | | 1 | Bearing |
| ❷29:2 | | 1 | Pin-Roll |
| 31 | 105-2861 | 1 | Shaft-Drive |
| 34 | 3217-5 | 1 | Nut-Hex |
| 36 | 3253-3 | 1 | Washer-Lock |
| 37 | 60-6240 | 1 | Washer |
| 47 | 94-3031 | 1 | Arm-Control |
| 48 | 93-6306 | 1 | Control ASM |



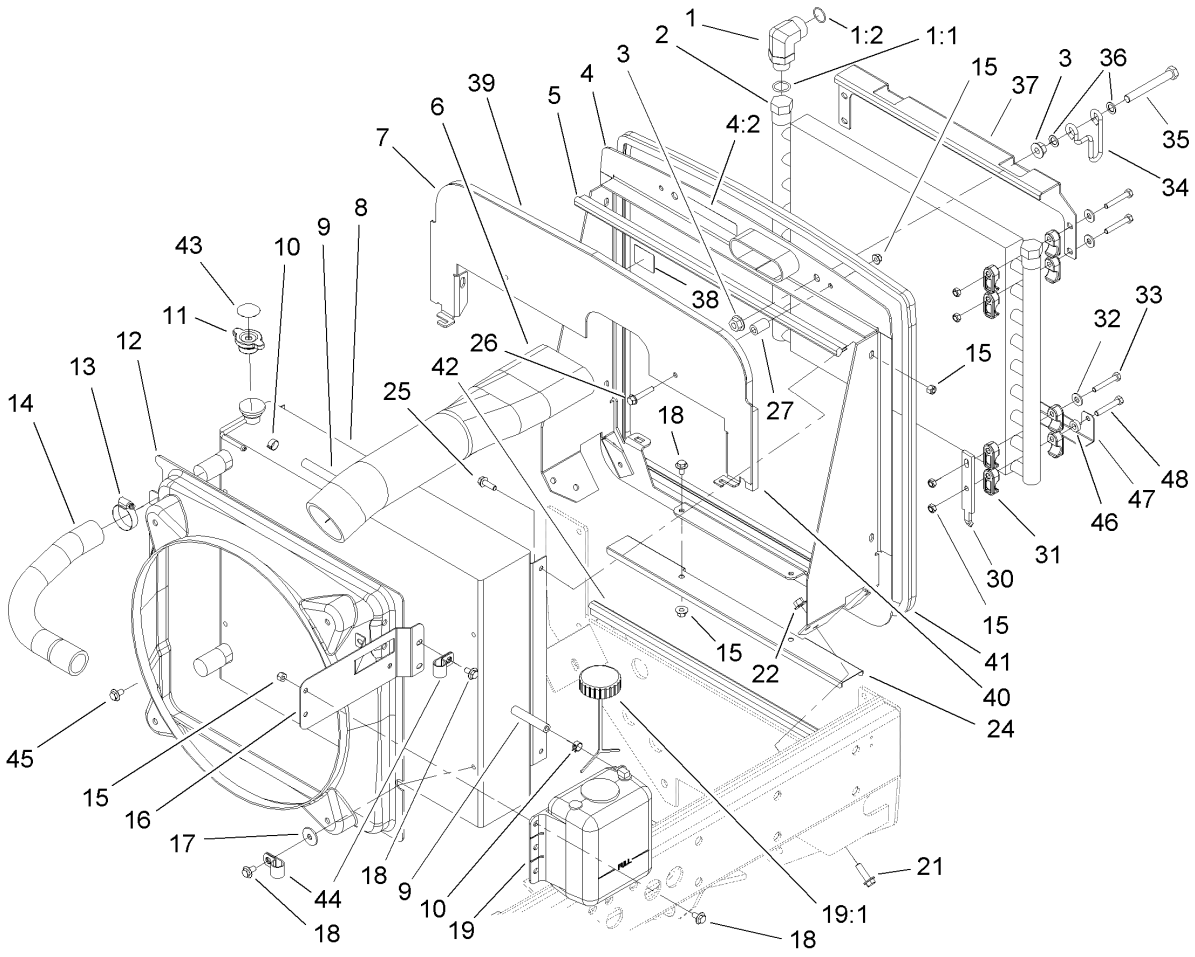

# Piston Pump Assembly No. 105-9846 (continued)

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 51 | 105-2909 | 1 | Orifice-Control |
| 52 | 94-3041 | 2 | Orifice-Control |
| 57 | 105-2864 | 1 | Valve-Bypass |
| ❷57:1 | | 1 | Seal-Dust |
| 60 | 94-3030 | 1 | Washer |
| 61 | 3256-77 | 8 | Washer-Flat |




# Control Assembly No. 93-6306

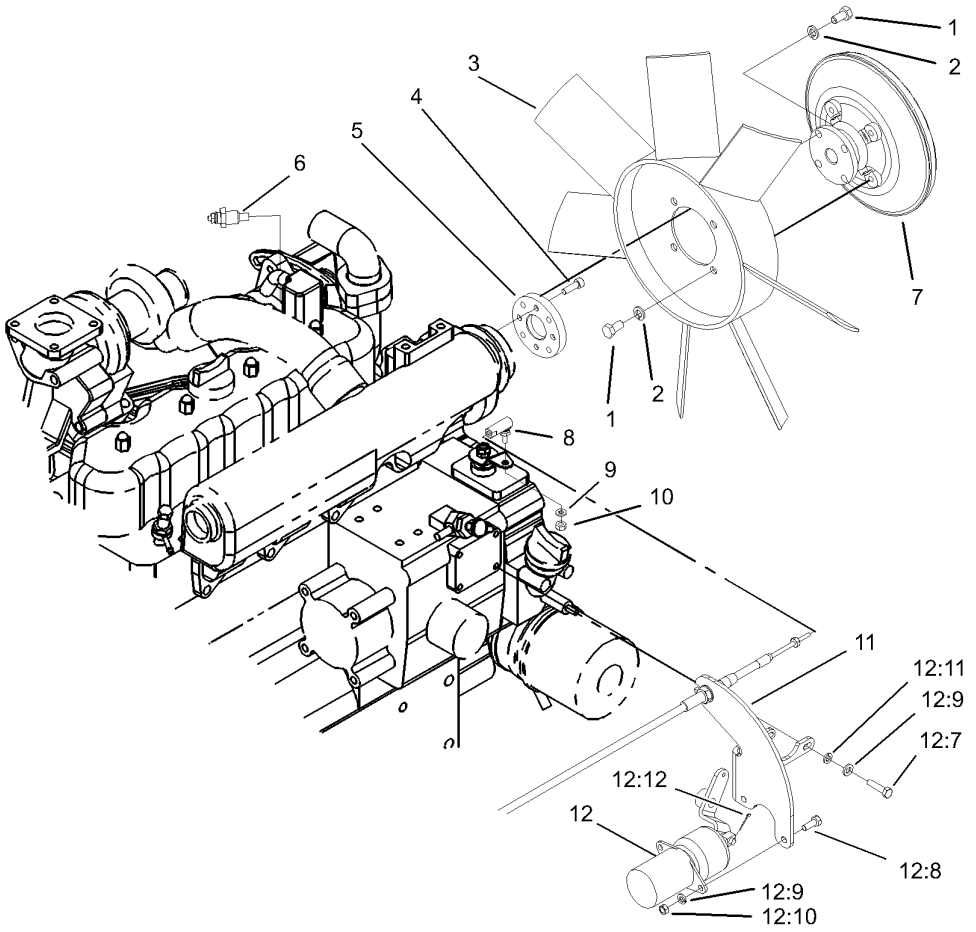
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❷1 | | 1 | Plug |
| ❷3 | | 1 | Ring-Retaining |
| ❷4 | | 2 | Retainer-Spring |
| ❷5 | | 1 | Spring |
| ❷6 | | 1 | Valve-Spool |
| ❷7 | | 1 | Housing-Control |
| ❷8 | | 1 | Shaft-Input |
| ❷12 | | 1 | Adaptor |
| ❷13 | | 1 | Ball |
| ❷14 | | 1 | Pin |
| 15 | 94-3043 | 1 | Switch-Safety, Neutral |
| ❷17 | | 1 | Screw-Set |
| ❷18 | | 1 | Screw-Set |
| ❷19 | | 1 | Pin |
| ❷20 | | 1 | Ring-Retaining |
| ❷21 | | 1 | Link |
| ❷22 | | 1 | Pin-Dowel |
| ❷23 | | 1 | Crank-Bell |
| ❷24 | | 1 | Screw-Set |
| 25 | 94-3044 | 1 | Seal Kit |
| ❷25:1 | | 1 | Seal-Dust |
| ❷25:2 | | 1 | Seal-Dust |
| ❷25:3 | | 1 | Seal-Wiper |
| ❷25:4 | | 1 | Seal-Dust |
| ❷25:5 | | 1 | Seal-Dust |




# Radiator Assembly

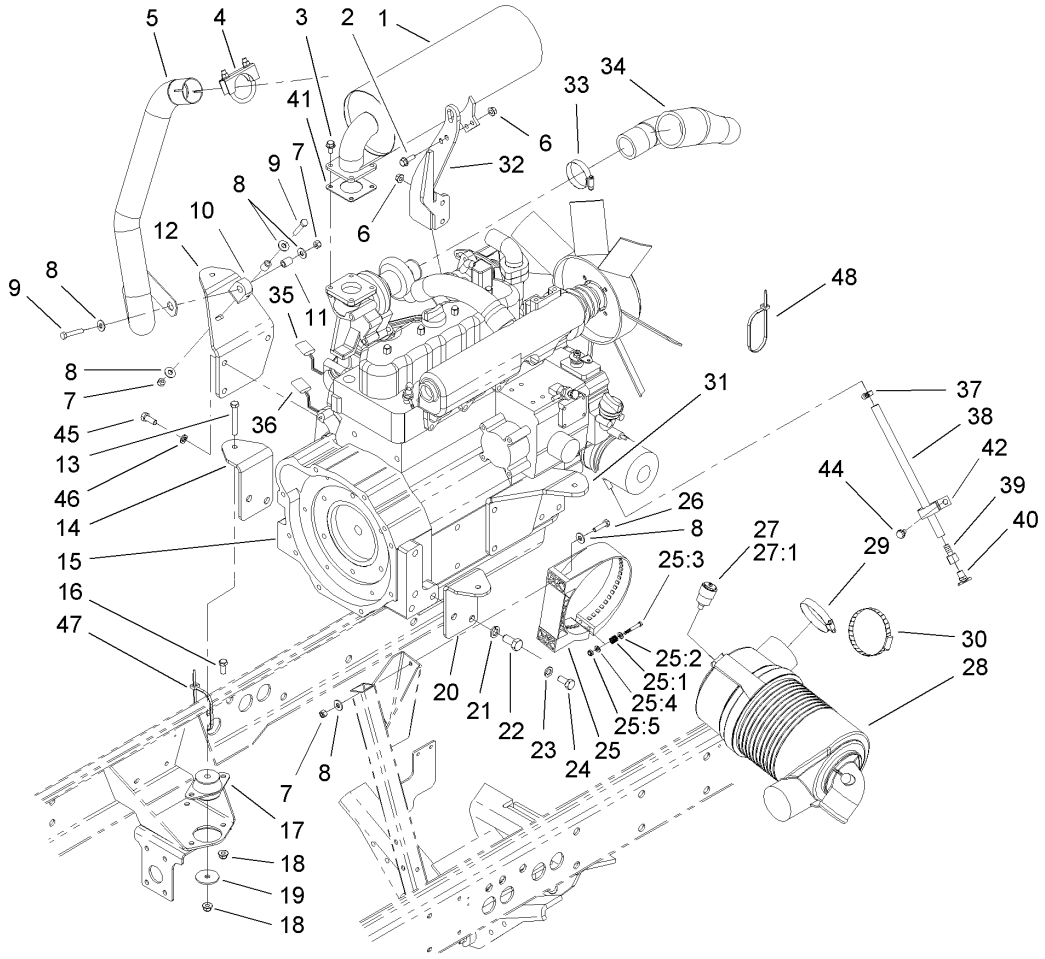
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-3796 | 2 | Fitting-HYD, 90 DEG |
| 1:1 | 237-81 | 1 | O-Ring |
| 1:2 | 340-65 | 1 | O-Ring |
| 2 | 108-4008 | 1 | Cooler-Oil |
| 3 | 32128-49 | 4 | Nut-HHF |
| 4 | 105-3994 | 1 | Bracket-Radiator |
| 4:2 | 93-7272 | 1 | Decal-Warning |
| 5 | 104-2223 | 1 | Seal-Bulb |
| 6 | 100-5550 | 1 | Hose-Cleaner, Air |
| 7 | 105-3934-03 | 1 | Bracket-Seal, Hood |
| 8 | 107-0244 | 1 | Radiator |
| 9 | 71-3370 | 2 | Hose |
| 10 | 92-2379 | 3 | Clamp-Hose |
| 11 | 93-5957 | 1 | Cap-Radiator |
| 12 | 99-5428 | 1 | Shroud-Radiator |
| 13 | 2412-111 | 4 | Clamp |
| 14 | 100-5547 | 2 | Hose-Radiator |
| 15 | 104-8300 | 19 | Nut-Flange, NI |
| 16 | 100-5505-03 | 1 | Bracket-Tank |
| 17 | 99-2900 | 4 | Washer-Flat |
| 18 | 3234-7 | 9 | Screw-HHF |
| 19 | 104-2276 | 1 | Reservoir-Coolant |
| 19:1 | 87-7050 | 1 | Cap-Reservoir |
| 21 | 3234-11 | 4 | Screw-HHF |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 22 | 32128-43 | 4 | Nut-Flange |
| 24 | 104-5426-03 | 1 | Cover-Bottom |
| 25 | 3234-17 | 4 | Screw-HHF |
| 26 | 94-5780 | 2 | Screw-HWH |
| 27 | 93-6981 | 2 | Spacer |
| 30 | 104-5460-03 | 2 | Plate-Mount, Oil Cooler |
| 31 | 105-3943 | 16 | Clamp-Cooler, Oil |
| 32 | 3256-23 | 12 | Washer-Flat |
| 33 | 322-10 | 6 | Screw-HH |
| 34 | 104-5429 | 2 | Clamp-Form, Wire |
| 35 | 325-17 | 2 | Screw-HH |
| 36 | 41-8440 | 4 | Washer |
| 37 | 104-5428-03 | 1 | Bracket-Oil Cooler, Top |
| 38 | 93-7275 | 1 | Decal-Fluid, Starting |
| 39 | 105-9233 | 1 | Seal-Foam |
| 40 | 105-9236 | 2 | Seal-Foam |
| 41 | 105-9814 | 1 | Seal-Bulb |
| 42 | 105-9858 | 1 | Seal-Bulb |
| 43 | 106-6755 | 1 | Decal-Cap, Radiator |
| 44 | 2412-81 | 2 | Clamp-R |
| 45 | 3234-28 | 2 | Screw-HHF |
| 46 | 104-1156 | 2 | Spacer |
| 47 | 108-4019-03 | 1 | Bracket-Cooler, Oil |
| 48 | 322-11 | 2 | Screw-HH |




# Fan and Solenoid Assembly

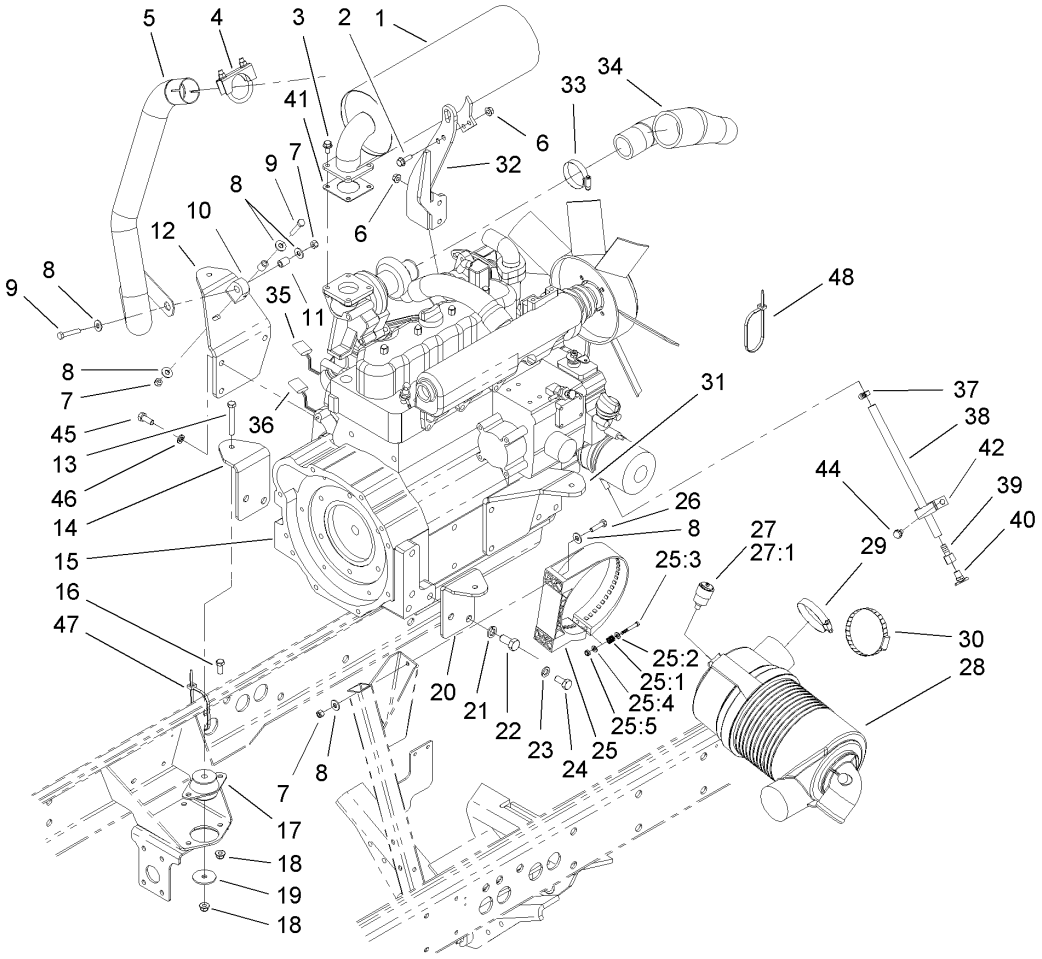
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 322-2 | 8 | Screw-HH |
| 2 | 3253-4 | 8 | Washer-Lock |
| 3 | 105-0750 | 1 | Fan |
| 4 | 52-6290 | 4 | Screw-HSH |
| 5 | 100-3066 | 1 | Adapter-Fan |
| 6 | 98-9346 | 1 | Sender-Temperature |
| 7 | 104-2212 | 1 | Clutch-Fan |
| 8 | 2411-38 | 1 | Joint-Ball |
| 9 | 3256-51 | 1 | Washer-Flat |
| 10 | 3296-21 | 1 | Nut-Lock, NI |
| 11 | 104-7540-03 | 1 | Support-Cable |
| 12 | 98-3817 | 1 | Solenoid Kit |
| 12:7 | 33113-025 | 3 | Screw-HH |
| 12:8 | 33113-016 | 2 | Screw-HH |
| 12:9 | 48-8020 | 5 | Washer-Spring |
| 12:10 | 33013-00 | 2 | Nut-Hex |
| 12:11 | 33093-00 | 3 | Washer-Flat |
| 12:12 | 3272-2 | 1 | Pin-Cotter |




# Engine Installation Assembly

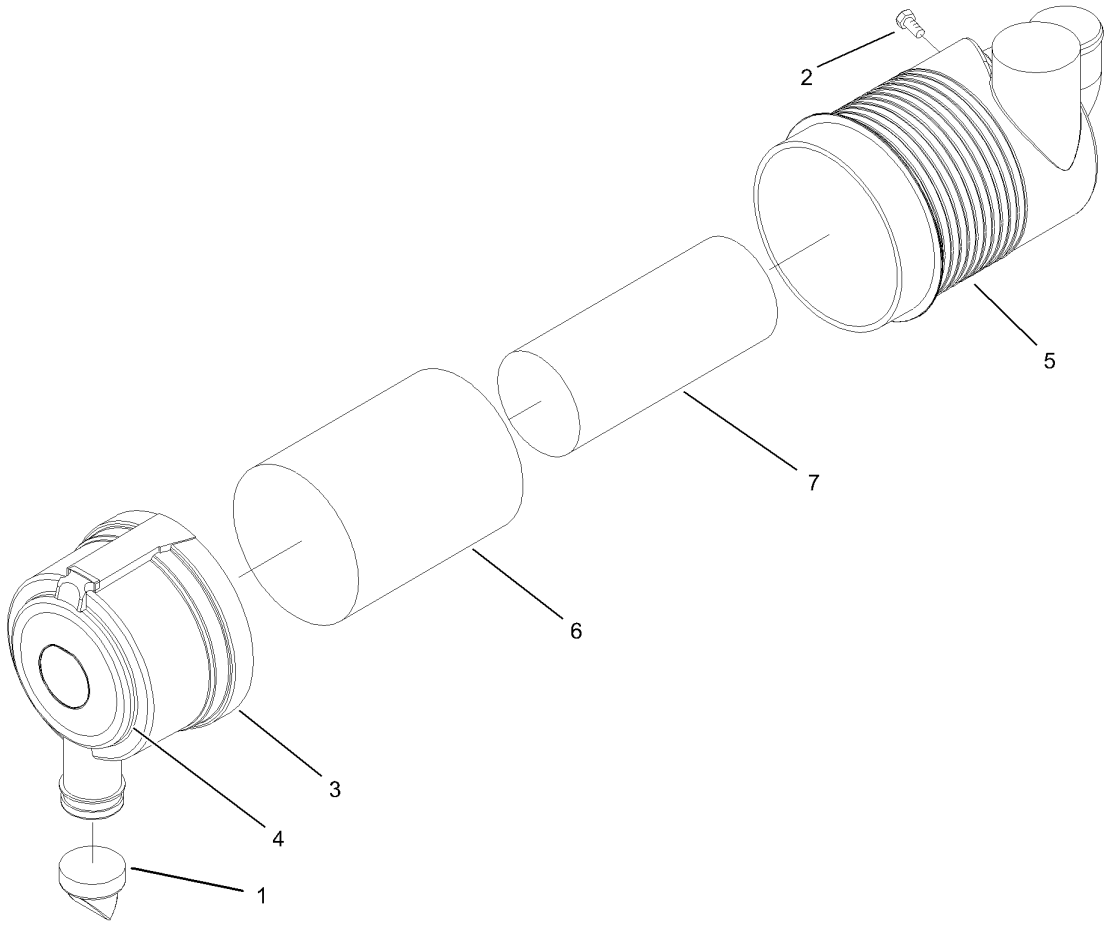
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 99-5424 | 1 | Muffler-Turbo |
| 2 | 33104-025 | 2 | Screw-HHF |
| 3 | 33104-016 | 4 | Screw-HHF |
| 4 | 18-2130 | 1 | Clamp ASM |
| 5 | 104-5461 | 1 | Pipe-Exhaust |
| 6 | 33004-00 | 4 | Nut-HF |
| 7 | 3296-29 | 4 | Nut-Lock, NI |
| 8 | 3256-3 | 8 | Washer-Flat |
| 9 | 322-9 | 2 | Screw-HH |
| 10 | 95-5622 | 1 | Hanger-Rubber |
| 11 | 93-5023 | 2 | Spacer |
| 12 | 106-2048-03 | 1 | Mount-Engine, RH |
| 13 | 323-13 | 4 | Screw-HH |
| 14 | 100-3148-03 | 1 | Mount-Engine, RH |
| 15 | 107-4302 | 1 | Engine-Turbo, Kubota |
| 16 | 3234-11 | 10 | Screw-HHF |
| 17 | 53-9682 | 4 | Support-Engine, Rubber |
| 18 | 104-8301 | 14 | Nut-Flange, NI |
| 19 | 63-7400 | 4 | Washer-Rebound |
| 20 | 100-3147-03 | 1 | Mount-Engine, LH |
| 21 | 43-5950 | 4 | Washer-Lock, Spring |
| 22 | 43-3210 | 4 | Screw-HH |
| 23 | 48-8070 | 5 | Washer-Lock |
| 24 | 42-9250 | 5 | Bolt |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 25 | 99-5414 | 1 | Strap-Cleaner, Air |
| 25:1 | 108-1512 | 2 | Spring |
| 25:2 | 3256-22 | 2 | Washer-Flat |
| 25:3 | 33113-050 | 2 | Screw-HH |
| 25:4 | 33093-00 | 2 | Washer-Flat |
| 25:5 | 33023-00 | 2 | Nut-Lock |
| 26 | 322-6 | 2 | Screw-HH |
| 27 | 104-3563 | 1 | Indicator |
| 27:1 | 94-1416 | 1 | Indicator Adapter ASM |
| 28 | 99-5410 | 1 | Cleaner-Air |
| 29 | 2412-125 | 1 | Clamp-Hose |
| 30 | 2412-110 | 1 | Clamp-Hose |
| 31 | 106-2049-03 | 1 | Mount-Engine, LH |
| 32 | 99-5421-03 | 1 | Bracket-Mounting |
| 33 | 2412-92 | 1 | Clamp-Hose |
| 34 | 99-5415 | 1 | Hose-Cleaner, Air |
| 35 | 99-3441 | 1 | Harness-Wire, Fusible Link |
| 36 | 105-9869 | 1 | Harness-Wire, Engine |
| 37 | 2412-108 | 2 | Clamp-Worm |
| 38 | 99-7376 | 1 | Hose-Breather |
| 39 | 354-94 | 1 | Fitting-Female, Barbed |
| 40 | 93-5528 | 1 | Fitting-Cock, Drain |
| 41 | 100-9333 | 1 | Gasket-Muffler |
| 42 | 2412-150 | 1 | Clip-J |



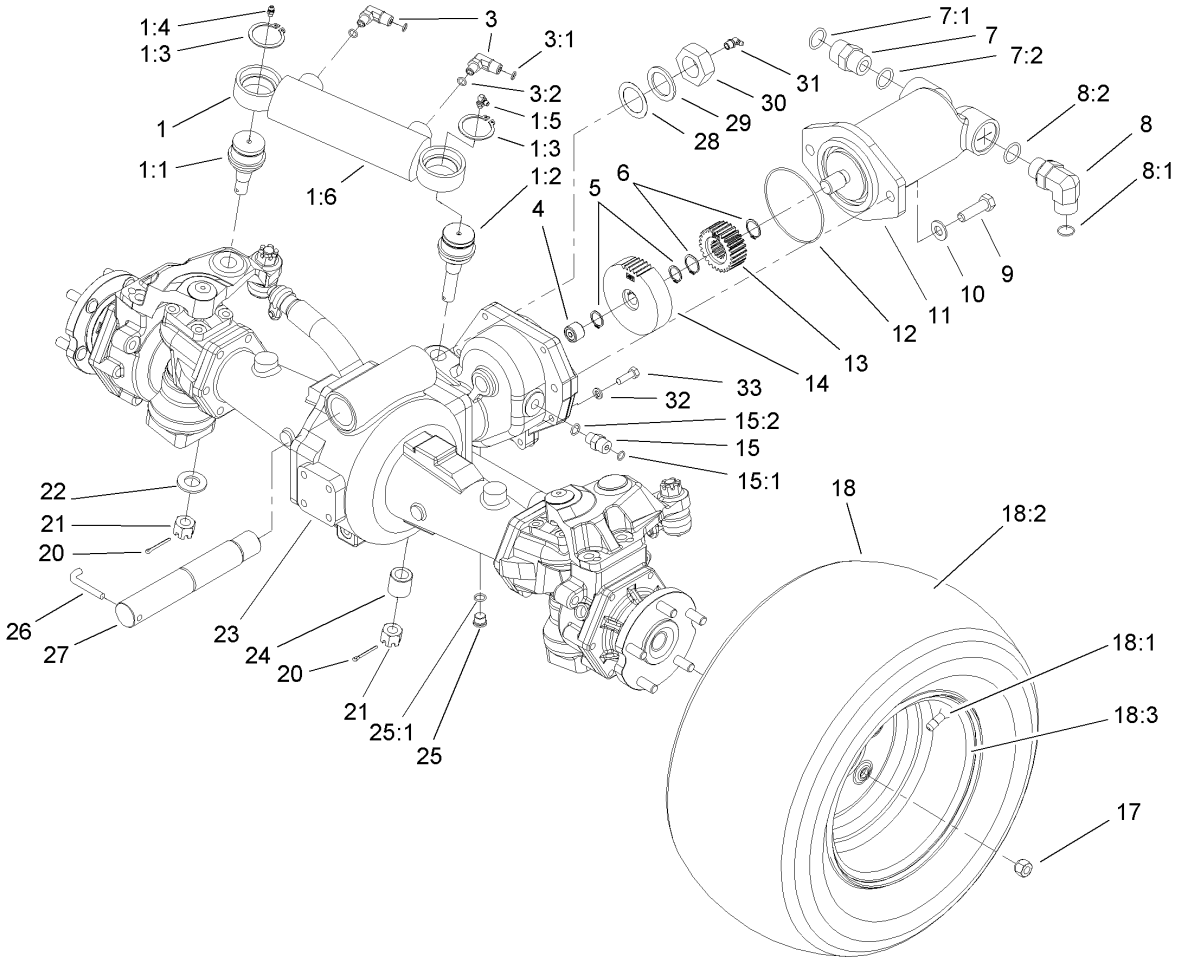

# Engine Installation Assembly (continued)

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 44 | 32144-14 | 1 | Screw-HWHTF |
| 45 | 43-0090 | 1 | Screw-HH |
| 46 | 48-9590 | 1 | Washer-Lock |
| 47 | 3290-378 | 1 | Tie-Cable |
| 48 | 3290-379 | 2 | Tie-Cable |




# Air Cleaner Assembly No. 99-5410

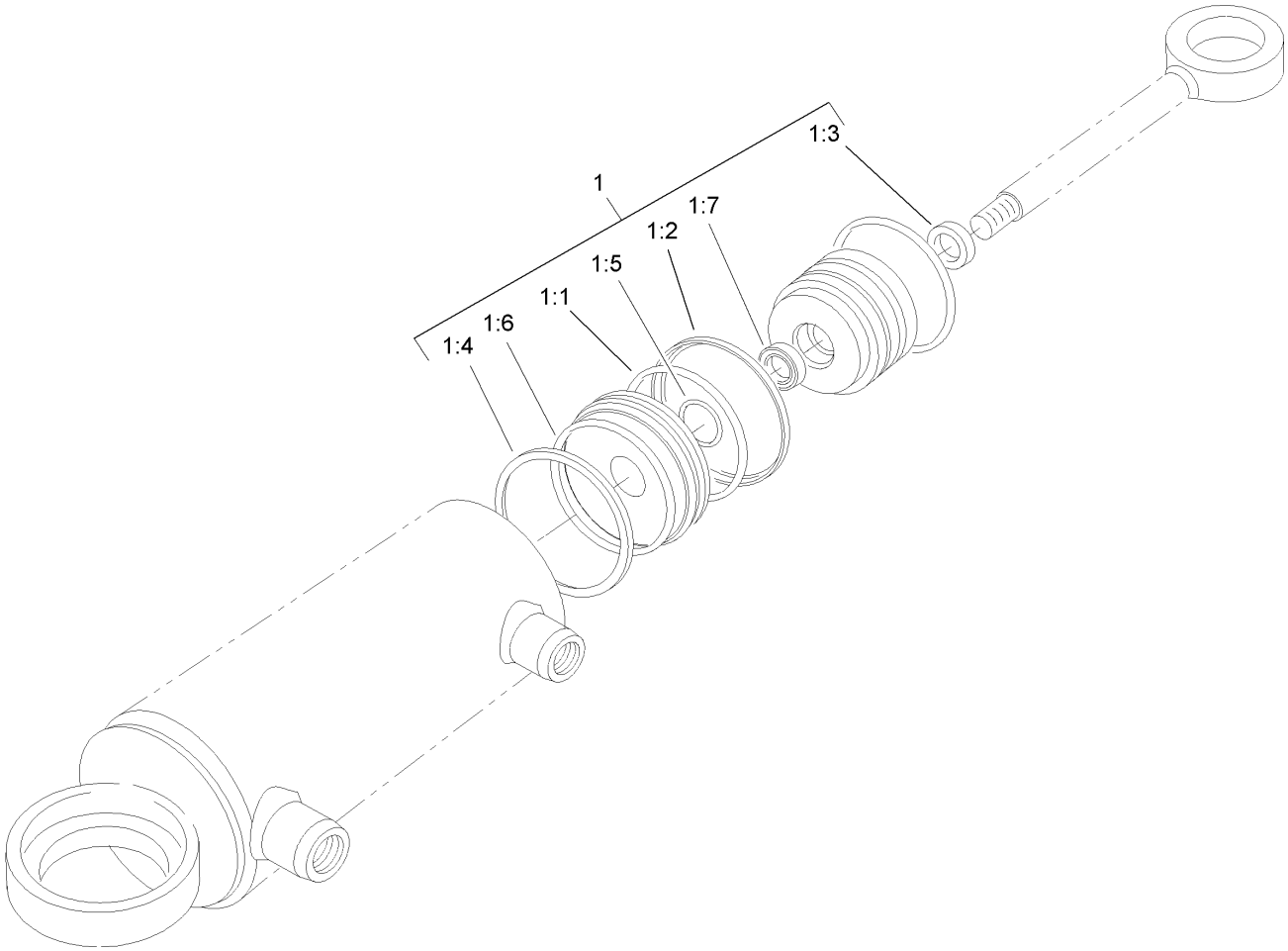
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-4258 | 1 | Valve-Vacuator |
| ❷2 | | 1 | Plug-Pipe |
| 3 | 104-4259 | 1 | Cover ASM |
| ❷4 | | 1 | Marking |
| ❷5 | | 1 | Body ASM |
| 6 | 108-3814 | 1 | Filter-Air |
| 7 | 108-3816 | 1 | Filter-Air |




# Rear Axle Assembly

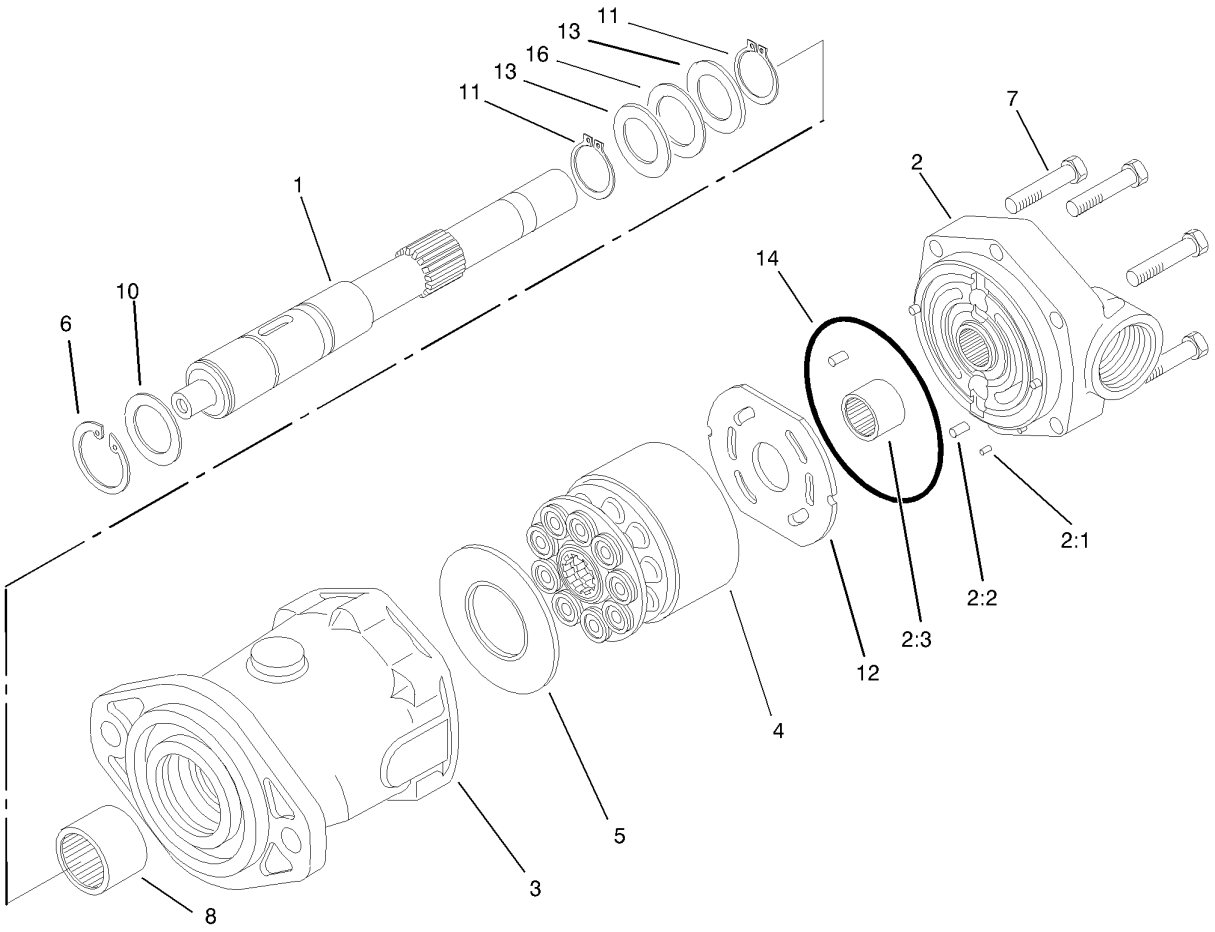
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105-9861 | 1 | Steering Cylinder ASM |
| 1:1 | 106-6774 | 1 | Joint-Ball |
| 1:2 | 100-3795 | 1 | Joint-Ball |
| 1:3 | 32151-104 | 2 | Ring-Retaining, External |
| 1:4 | 302-5 | 1 | Fitting-Grease |
| 1:5 | 302-60 | 1 | Fitting-Grease, 90 DEG |
| 1:6 | 107-1976 | 1 | Cylinder-Steering, HYD |
| 3 | 340-97 | 2 | Fitting-HYD, 90 DEG |
| 3:1 | 237-22 | 1 | O-Ring |
| 3:2 | 237-78 | 1 | O-Ring |
| 4 | 74-5700 | 1 | Bearing-Needle, Roller |
| 5 | 32120-15 | 2 | Ring-Snap, EXT |
| 6 | 32120-76 | 2 | Ring-Snap, EXT |
| 7 | 340-9 | 1 | Fitting-Straight |
| 7:1 | 237-58 | 1 | O-Ring |
| 7:2 | 237-81 | 1 | O-Ring |
| 8 | 340-142 | 1 | Fitting-HYD, 90 DEG |
| 8:1 | 237-58 | 1 | O-Ring |
| 8:2 | 237-81 | 1 | O-Ring |
| 9 | 325-7 | 2 | Screw-HH |
| 10 | 3256-26 | 2 | Washer-Flat |
| 11 | 105-1219 | 1 | Motor-Piston |
| 12 | 237-166 | 1 | O-Ring |
| 13 | 104-5663 | 1 | Pinion-28T |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 14 | 104-5664 | 1 | Gear-44T |
| 15 | 340-2 | 1 | Fitting-HYD, Straight |
| 15:1 | 237-22 | 1 | O-Ring |
| 15:2 | 237-42 | 1 | O-Ring |
| 17 | 93-5268 | 10 | Nut-Lug |
| ❷18 | | 2 | Tire And Wheel ASM |
| 18:1 | 232-27 | 1 | Stem-Valve |
| 18:2 | 104-0451 | 1 | Tire-Turf, Trac |
| 18:3 | 105-9219 | 1 | Wheel |
| 20 | 3272-11 | 2 | Pin-Cotter |
| 21 | 32136-14 | 2 | Nut-SHH |
| 22 | 92-5836 | 1 | Washer |
| 23 | 110-4750 | 1 | Drive Axle ASM |
| 24 | 100-3796 | 1 | Spacer-Joint, Ball |
| 25 | 353-989 | 1 | Plug-Hex, Hollow |
| 25:1 | 237-42 | 1 | O-Ring |
| 26 | 100-3771 | 1 | Pin-Stop |
| 27 | 100-3770 | 1 | Pin-Axle, Pivot |
| 28 | 92-1765 | 1 | Washer-Thrust |
| 29 | 98-3867 | 2 | Washer-Thrust |
| 30 | 3296-68 | 1 | Nut-Lock, NI |
| 31 | 302-33 | 1 | Fitting-Grease |
| 32 | 3253-4 | 6 | Washer-Lock |
| 33 | 33114-025 | 6 | Screw-HH |



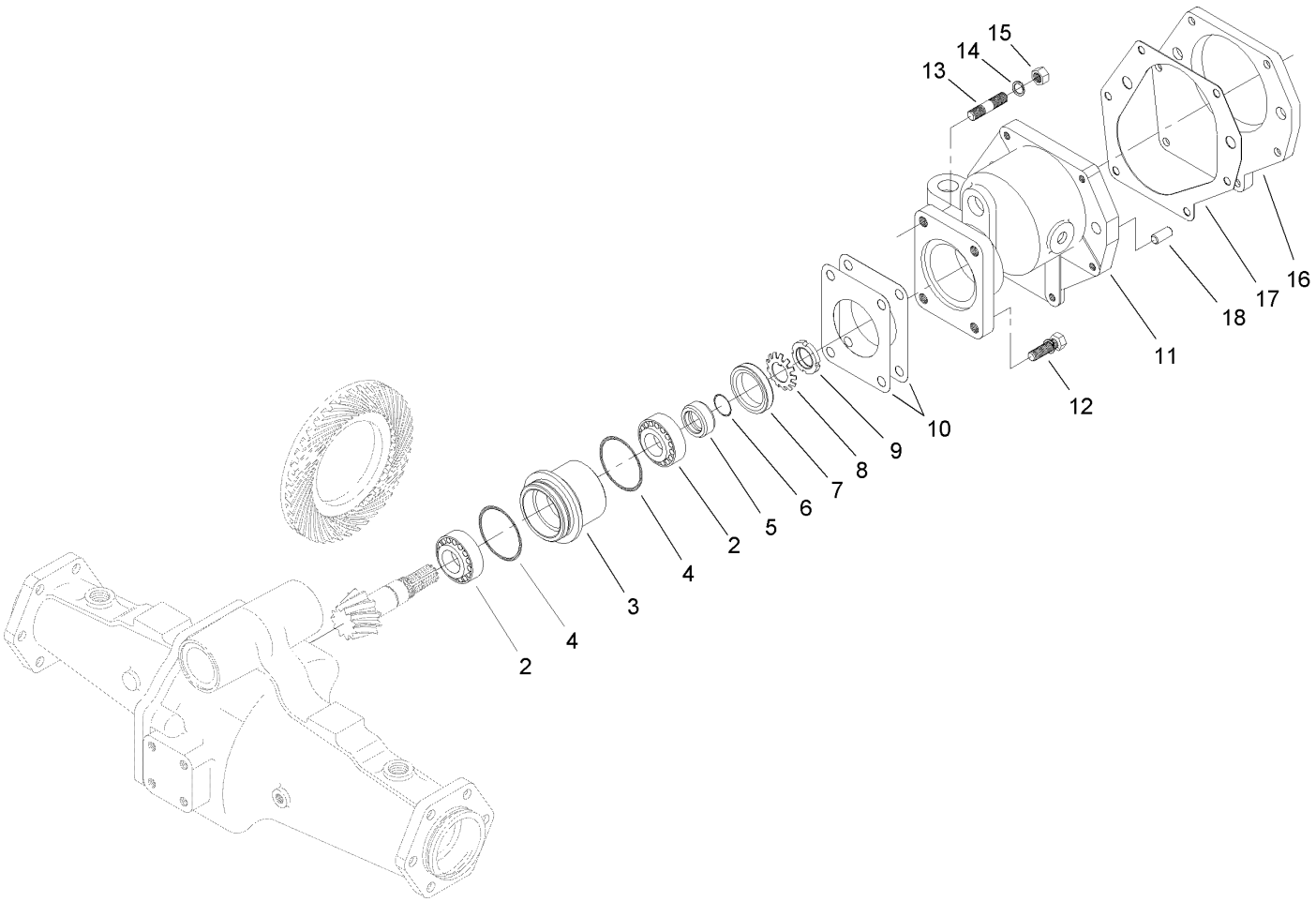

# Hydraulic Cylinder Assembly No. 107-1976

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 107-0245 | 1 | Seal Kit |
| ❷1:1 | | 1 | Seal-Dust |
| ❷1:2 | | 1 | Back-Up |
| ❷1:3 | | 1 | Wiper |
| ❷1:4 | | 1 | Seal ASM |
| ❷1:5 | | 1 | Seal-Dust |
| ❷1:6 | | 1 | Seal-Dust |
| ❷1:7 | | 1 | Seal ASM |



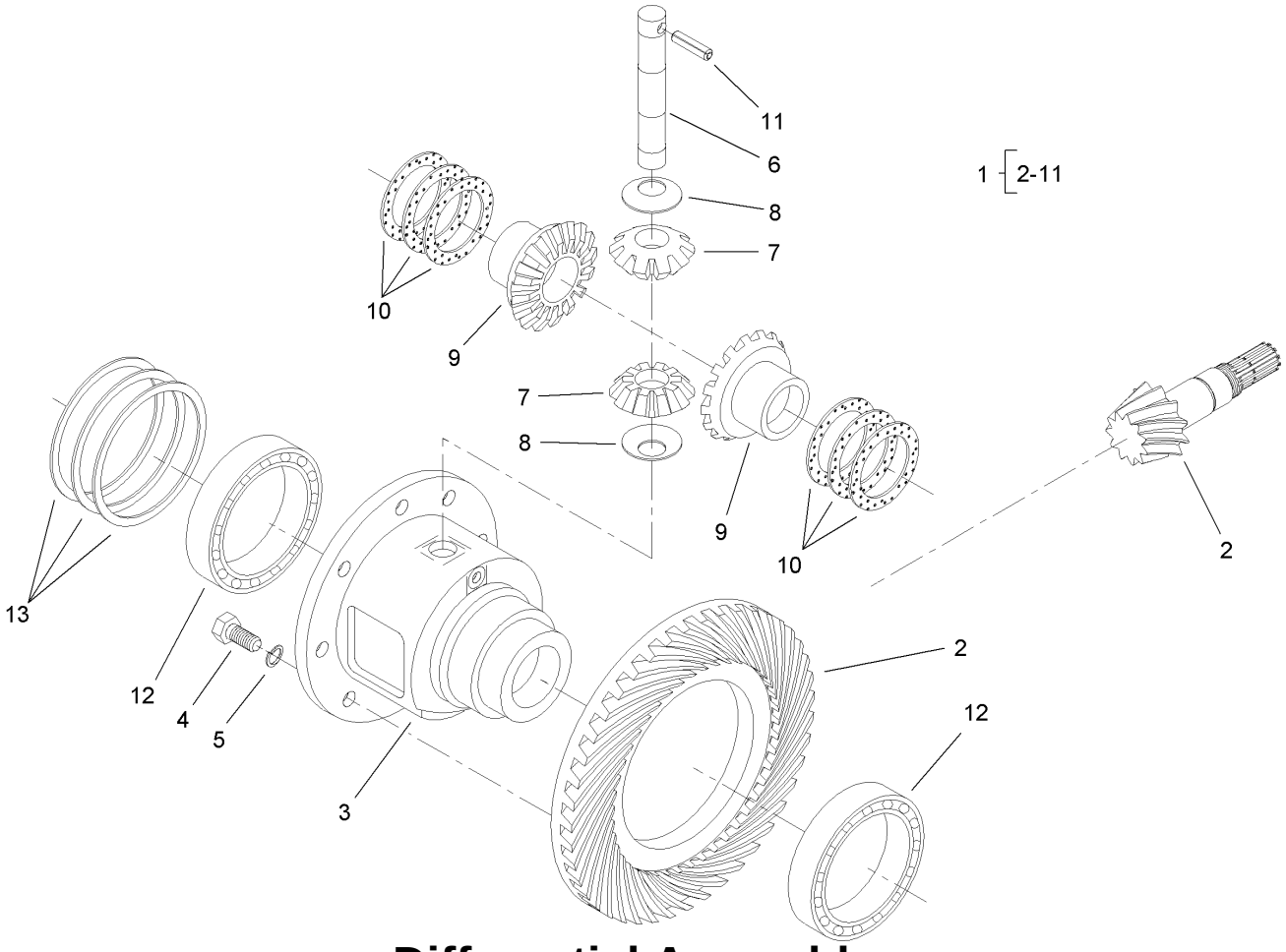

# Piston Motor Assembly No. 105-1219

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105-2853 | 1 | Shaft-Drive |
| 2 | 100-2551 | 1 | Backplate |
| ❷2:1 | | 3 | Pin-Dowel |
| ❷2:2 | | 1 | Pin-Dowel |
| ❷2:3 | | 1 | Bearing-Needle |
| ❷3 | | 1 | Housing |
| 4 | 76-6910 | 1 | Rotating Kit |
| 5 | 76-6970 | 1 | Insert-Plate, Cam |
| 6 | 60-6260 | 1 | Ring |
| 7 | 94-3002 | 6 | Capscrew |
| 8 | 63-4390 | 1 | Bearing-Needle |
| 10 | 76-7020 | 1 | Spacer |
| 11 | 76-7000 | 2 | Ring-Retaining |
| 12 | 94-3003 | 1 | Plate-Valve |
| 13 | 76-6950 | 2 | Race-Thrust |
| 14 | 76-6980 | 1 | O-Ring |
| 16 | 76-6960 | 1 | Bearing-Thrust |



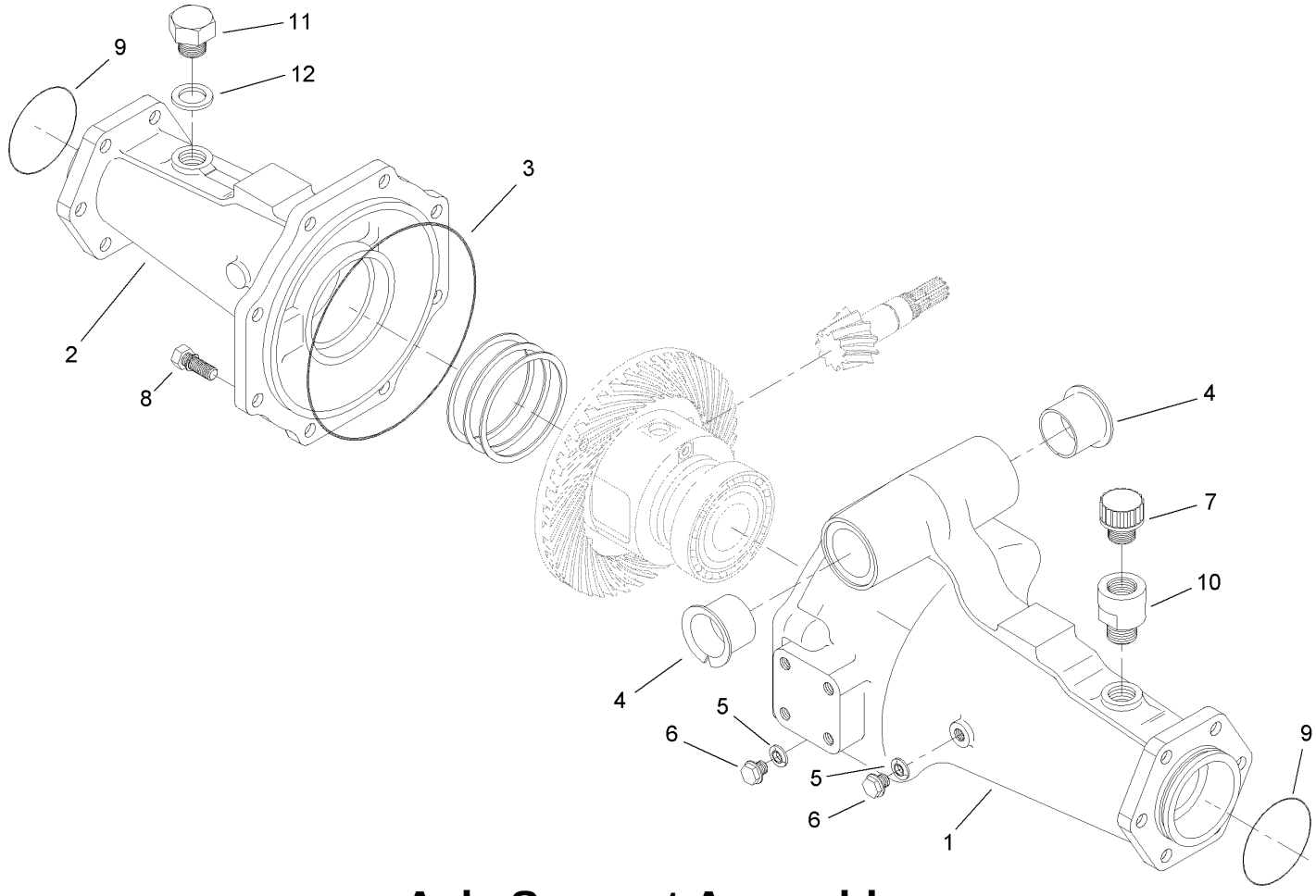

# Bevel Pinion Shaft Assembly
# Rear Axle Assembly No. 110-4750

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 2 | 99-7570 | 2 | Bearing-Roller, Taper |
| 3 | 95-7534 | 1 | Case-Bearing |
| 4 | 106-1065 | 2 | O-Ring |
| 5 | 99-7572 | 1 | Collar-Seal, Oil |
| 6 | 106-1066 | 1 | O-Ring |
| 7 | 99-7574 | 1 | Seal-Oil |
| 8 | 99-7559 | 1 | Washer-Lock |
| 9 | 99-7560 | 1 | Nut-Lock |
| 10 | 99-7550 | 2 | Shim 0.1 |
| 10 | 99-7551 | 2 | Shim 0.2 |
| 11 | 95-7533 | 1 | Case-Gear |
| 12 | 99-7575 | 2 | Bolt |
| 13 | 98-7735 | 2 | Stud |
| 14 | 99-7527 | 2 | Washer-Spring |
| 15 | 99-7526 | 2 | Nut |
| 16 | 95-7541 | 1 | Plate-Cover |
| 17 | 95-7540 | 1 | Gasket |
| 18 | 104-2353 | 2 | Pin-Dowel |



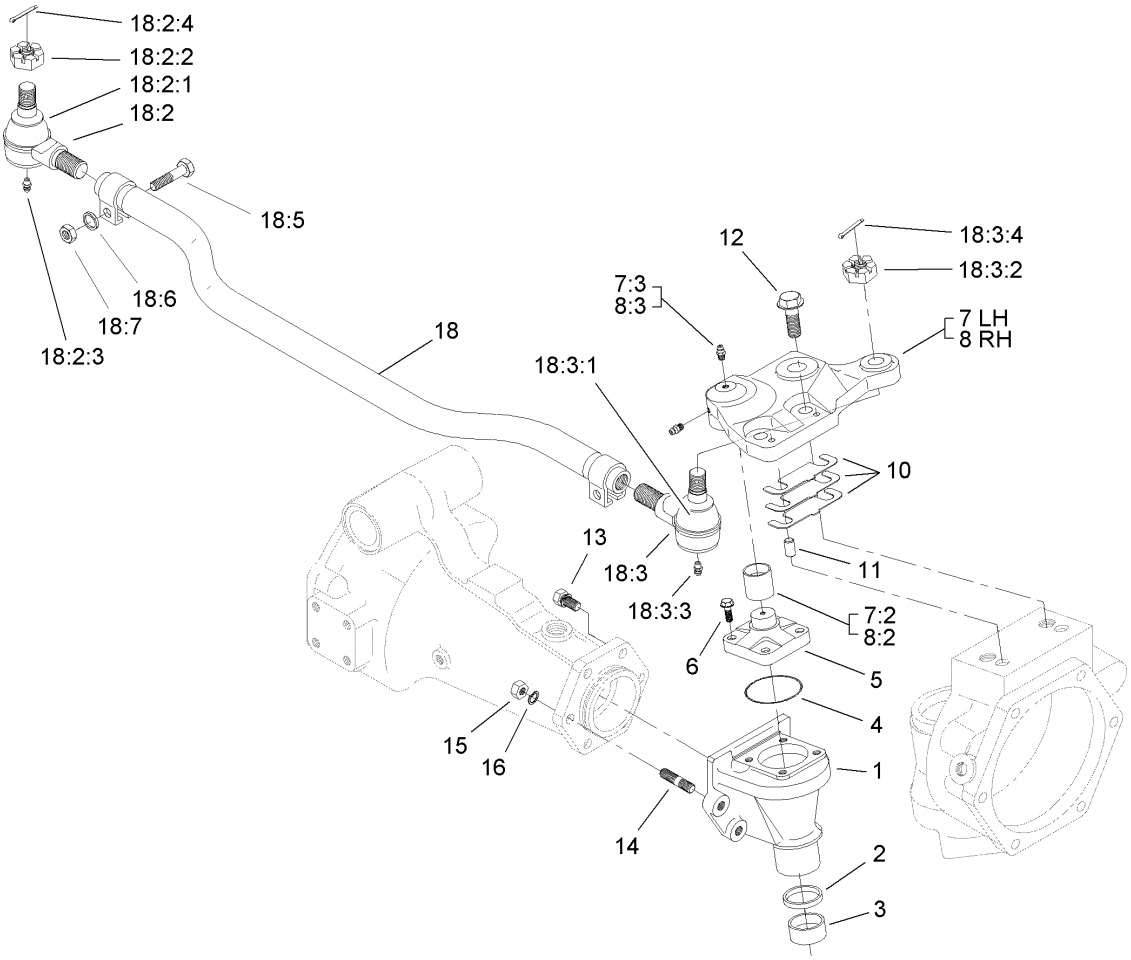

# Differential Assembly
# Rear Axle Assembly No. 110-4750

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 95-7503 | 1 | Differential ASM |
| 2 | 100-2555 | 1 | Ring And Pinion Matched Set |
| 3 | 95-7502 | 1 | Case-Differential |
| 4 | 99-7576 | 8 | Bolt |
| 5 | 3253-4 | 8 | Washer-Lock |
| 6 | 99-7578 | 1 | Shaft-Differential |
| 7 | 99-7579 | 2 | Pinion-Differential |
| 8 | 99-7580 | 2 | Washer-Differential |
| 9 | 99-7581 | 2 | Gear-Differential |
| 10 | 99-7582 | 2 | Washer-Differential |
| 10 | 99-7583 | 2 | Washer-Differential |
| 10 | 99-7584 | 2 | Washer-Differential |
| 11 | 99-7588 | 1 | Pin-Spring |
| 12 | 99-7562 | 2 | Bearing-Ball |
| 13 | 99-7585 | 2 | Shim 0.1 |
| 13 | 99-7586 | 2 | Shim 0.2 |
| 13 | 99-7587 | 2 | Shim 0.4 |




# Axle Support Assembly
# Rear Axle Assembly No. 110-4750

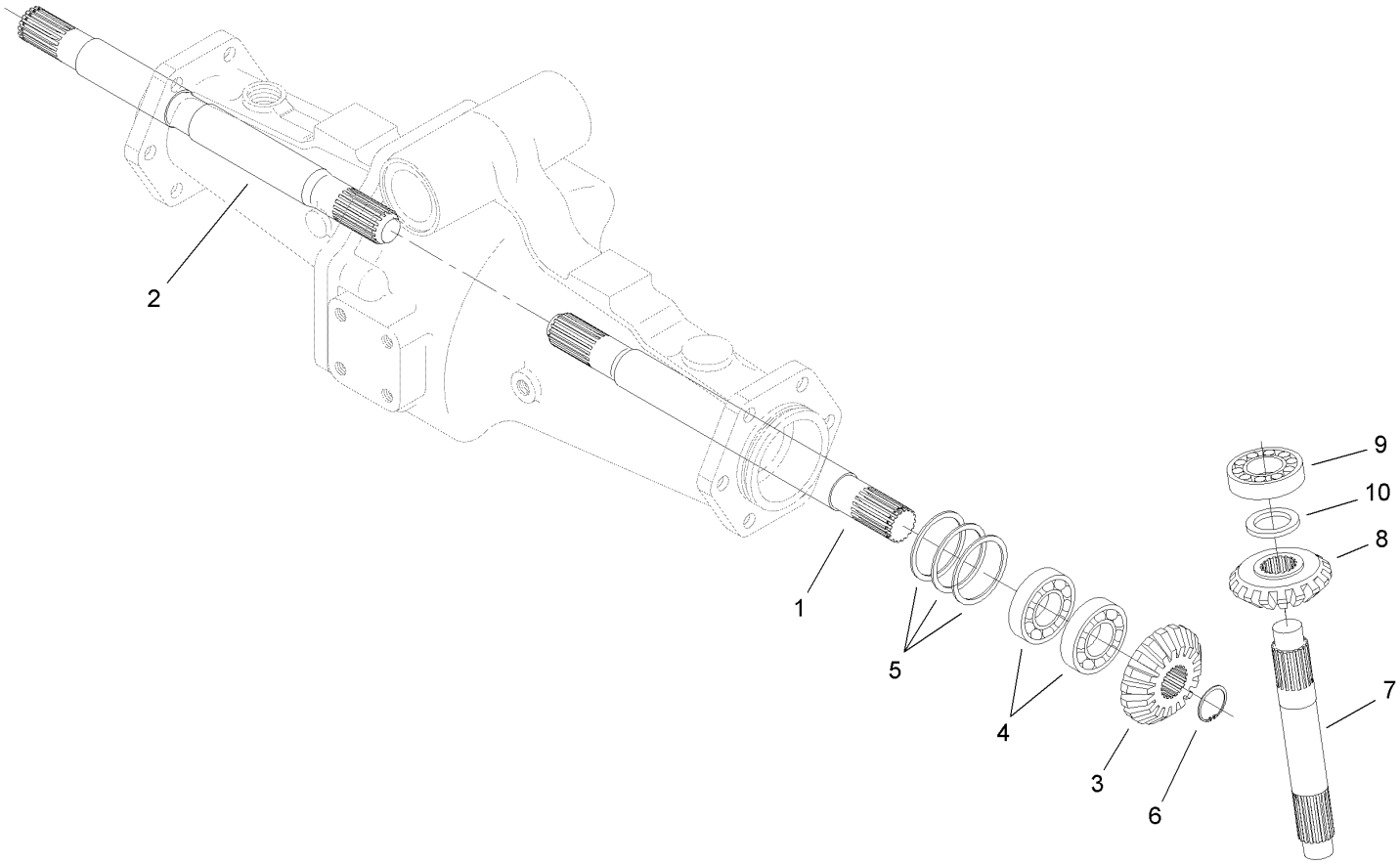
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 95-7508 | 1 | Support-Axle |
| 2 | 95-7506 | 1 | Support-Axle |
| 3 | 106-1067 | 1 | O-Ring |
| 4 | 95-7537 | 2 | Bushing-Flanged |
| 5 | 99-7590 | 2 | Washer-Seal |
| 6 | 99-7589 | 2 | Plug |
| 7 | 99-7591 | 1 | Oil Plug ASM |
| 8 | 99-7592 | 8 | Bolt |
| 9 | 106-1068 | 2 | O-Ring |
| 10 | 104-2377 | 1 | Extension-Vent |
| 11 | 104-8643 | 1 | Plug |
| 12 | 104-8644 | 1 | O-Ring |




# Bevel Gear Case Assembly
# Rear Axle Assembly No. 110-4750

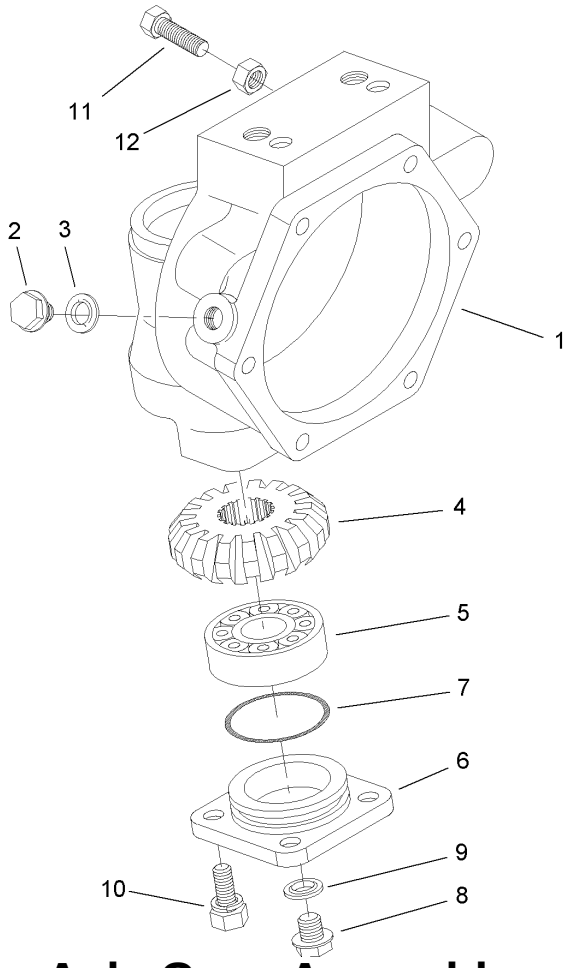
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 110-4752 | 2 | Case-Gear, Bevel |
| 2 | 110-4754 | 2 | Seal-Oil |
| 3 | 104-2378 | 2 | Bushing |
| 4 | 106-1069 | 2 | O-Ring |
| 5 | 104-2373 | 2 | Knuckle |
| 6 | 104-2374 | 8 | Bolt |
| 7 | 100-3768 | 1 | LH Steering Arm ASM |
| 7:2 | 104-8634 | 1 | Bushing |
| 7:3 | 106-1104 | 2 | Fitting-Grease |
| 8 | 100-3766 | 1 | RH Steering Arm ASM |
| 8:2 | 104-8634 | 1 | Bushing |
| 8:3 | 106-1104 | 2 | Fitting-Grease |
| 10 | 95-7547 | 2 | Shim 0.1 |
| 10 | 95-7548 | 2 | Shim 0.2 |
| 10 | 95-7549 | 2 | Shim 0.3 |
| 11 | 99-7597 | 4 | Pin-Dowel |
| 12 | 104-2375 | 4 | Bolt |
| 13 | 99-7599 | 8 | Bolt |
| 14 | 99-7525 | 4 | Stud |
| 15 | 99-7526 | 4 | Nut |
| 16 | 99-7527 | 4 | Washer-Spring |
| 18 | 106-1111 | 1 | Steering Tie Rod ASM |
| 18:2 | 106-1113 | 1 | Tie Rod End ASM - RH Thread |
| 18:2:1 | 100-3853 | 1 | Cover-Dust |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 18:2:2 | 100-3854 | 1 | Nut-Castle |
| 18:2:3 | 106-1104 | 1 | Fitting-Grease |
| 18:2:4 | 3272-11 | 1 | Pin-Cotter |
| 18:3 | 106-1112 | 1 | Tie Rod End ASM - LH Thread |
| 18:3:1 | 100-3853 | 1 | Cover-Dust |
| 18:3:2 | 100-3854 | 1 | Nut-Castle |
| 18:3:3 | 106-1104 | 1 | Fitting-Grease |
| 18:3:4 | 3272-11 | 1 | Pin-Cotter |
| 18:5 | 100-3855 | 2 | Bolt |
| 18:6 | 99-7527 | 2 | Washer-Spring |
| 18:7 | 99-7526 | 2 | Nut |



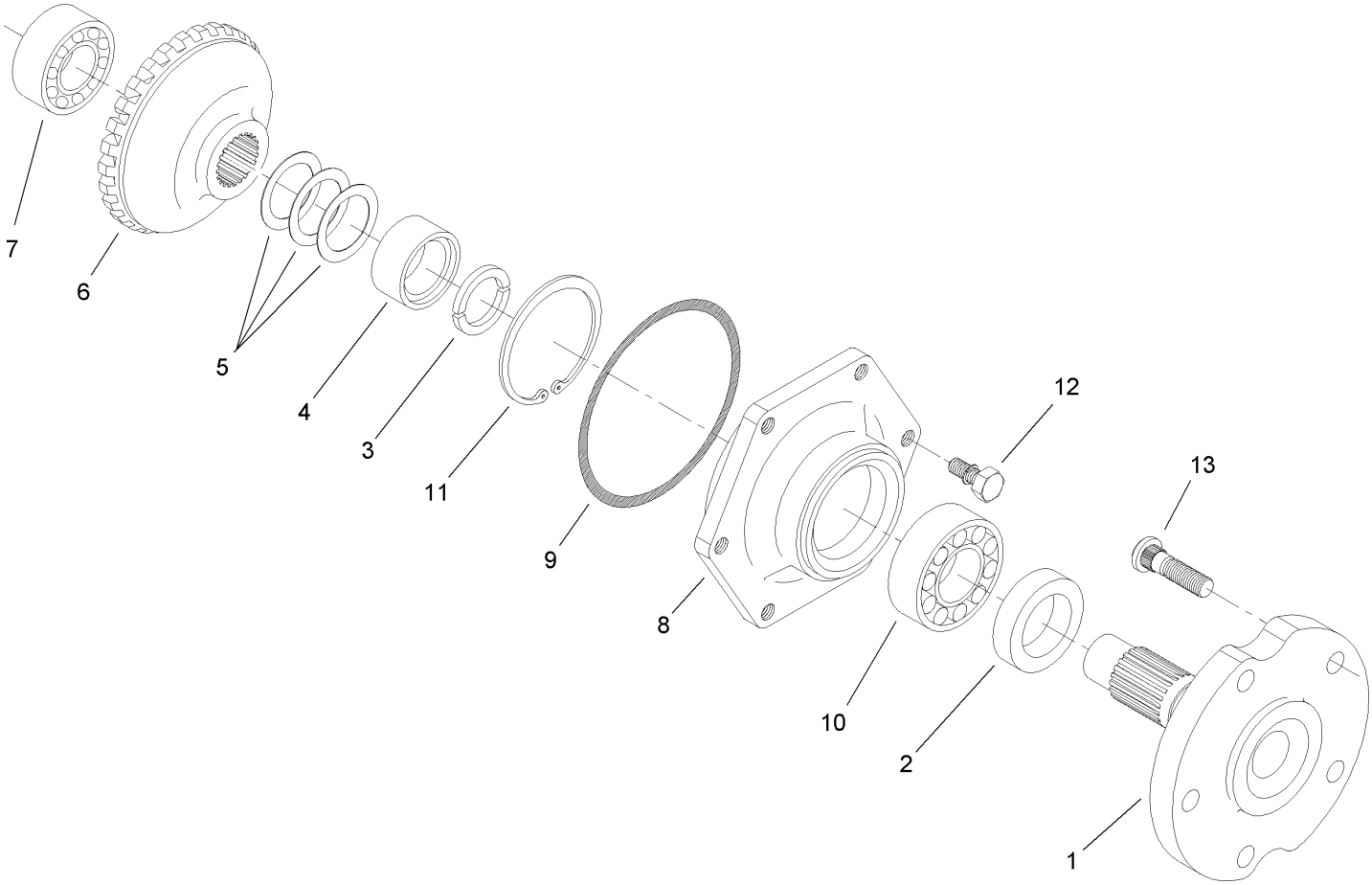

# Bevel Gear Shaft Assembly
# Rear Axle Assembly No. 110-4750

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 95-7509 | 1 | Shaft-Gear, Differential |
| 2 | 95-7512 | 1 | Shaft-Gear, Differential |
| 3 | 95-7517 | 2 | Gear-Bevel, 15 Tooth |
| 4 | 99-7530 | 4 | Bearing-Ball |
| 5 | 99-7552 | 2 | Shim 0.1 |
| 5 | 99-7553 | 2 | Shim 0.2 |
| 5 | 99-7554 | 2 | Shim 0.5 |
| 6 | 99-7531 | 2 | Clip |
| 7 | 110-4753 | 2 | Shaft-Gear, Bevel |
| 8 | 95-7519 | 2 | Gear-Bevel, 17 Tooth |
| 9 | 99-7532 | 2 | Bearing-Roller, Taper |
| 10 | 99-7558 | 2 | Collar |



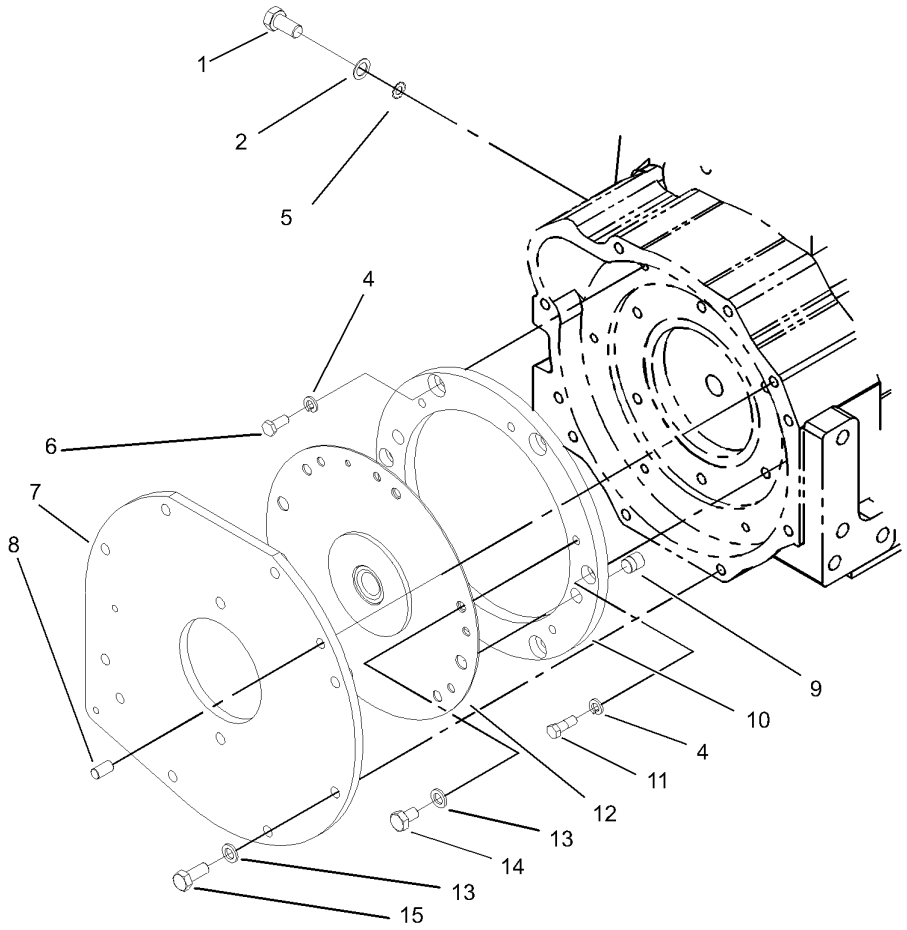

# Axle Case Assembly
# Rear Axle Assembly No. 110-4750

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 110-4751 | 2 | Case-Axle |
| 2 | 99-7535 | 2 | Plug |
| 3 | 99-7536 | 2 | Washer-Seal |
| 4 | 95-7527 | 2 | Gear-Bevel, 17 Tooth |
| 5 | 99-7532 | 2 | Bearing-Roller, Taper |
| 6 | 100-2560 | 2 | Cover |
| 7 | 106-1070 | 2 | O-Ring |
| 8 | 99-7589 | 2 | Plug |
| 9 | 99-7590 | 2 | Washer-Seal |
| 10 | 100-2562 | 8 | Bolt |
| 11 | 106-1102 | 2 | Bolt-Stop |
| 12 | 106-1103 | 2 | Nut |



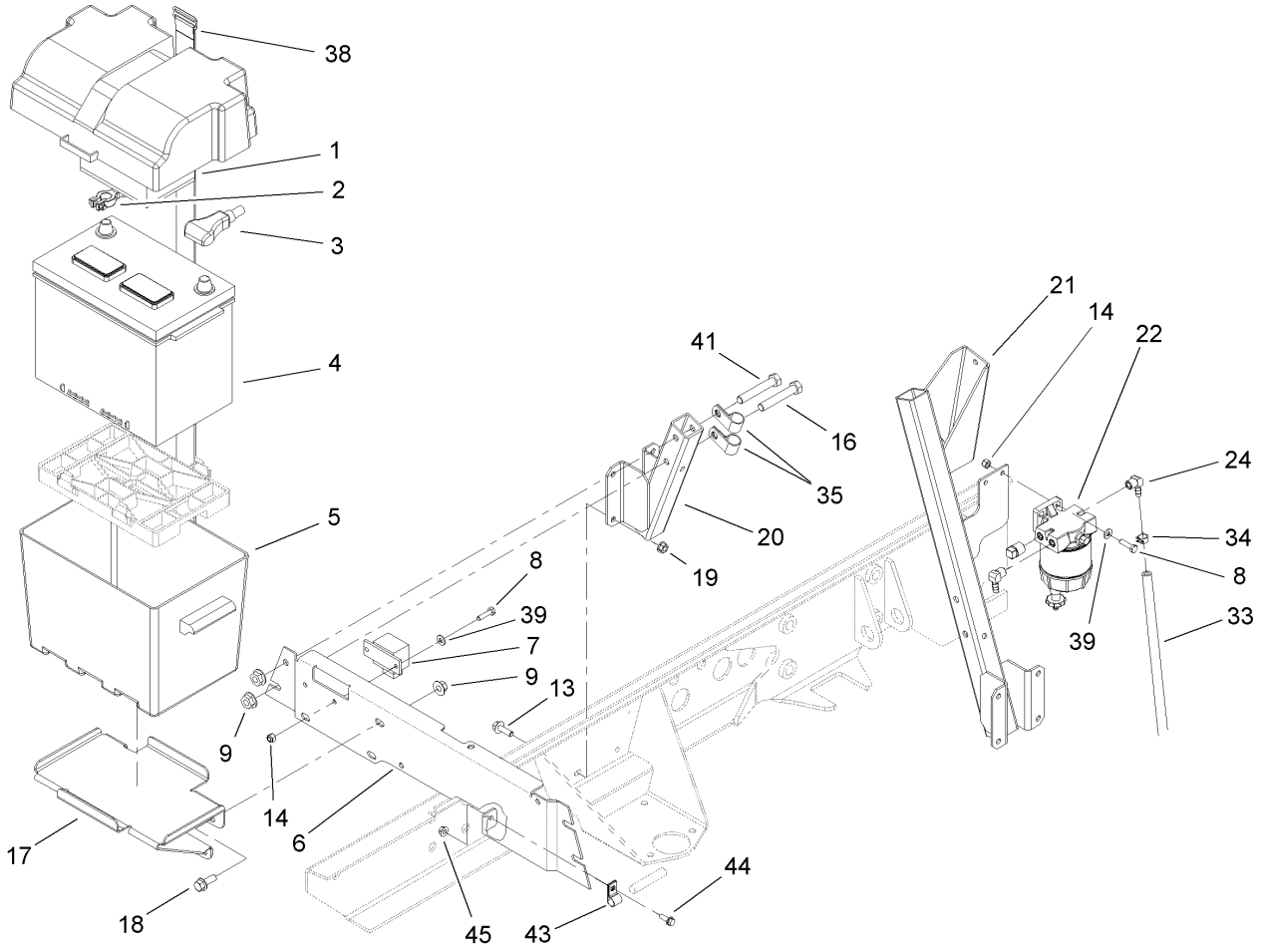

# Axle Assembly
# Rear Axle Assembly No. 110-4750

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 95-7522 | 2 | Axle |
| 2 | 99-7564 | 2 | Seal-Oil |
| 3 | 95-7544 | 4 | Clip |
| 4 | 95-7523 | 2 | Spacer |
| 5 | 99-7555 | 2 | Shim 0.3 |
| 5 | 99-7556 | 2 | Shim 0.2 |
| 5 | 99-7557 | 2 | Shim 0.5 |
| 6 | 95-7524 | 2 | Gear-Bevel, 29 Tooth |
| 7 | 99-7534 | 2 | Bearing-Ball |
| 8 | 95-7521 | 2 | Cover-Axle |
| 9 | 106-1071 | 2 | O-Ring |
| 10 | 99-7561 | 2 | Bearing-Ball |
| 11 | 99-7539 | 2 | Clip |
| 12 | 99-7596 | 12 | Bolt |
| 13 | 99-7563 | 10 | Stud |




# Coupler Spacer and Adapter Plate Assembly

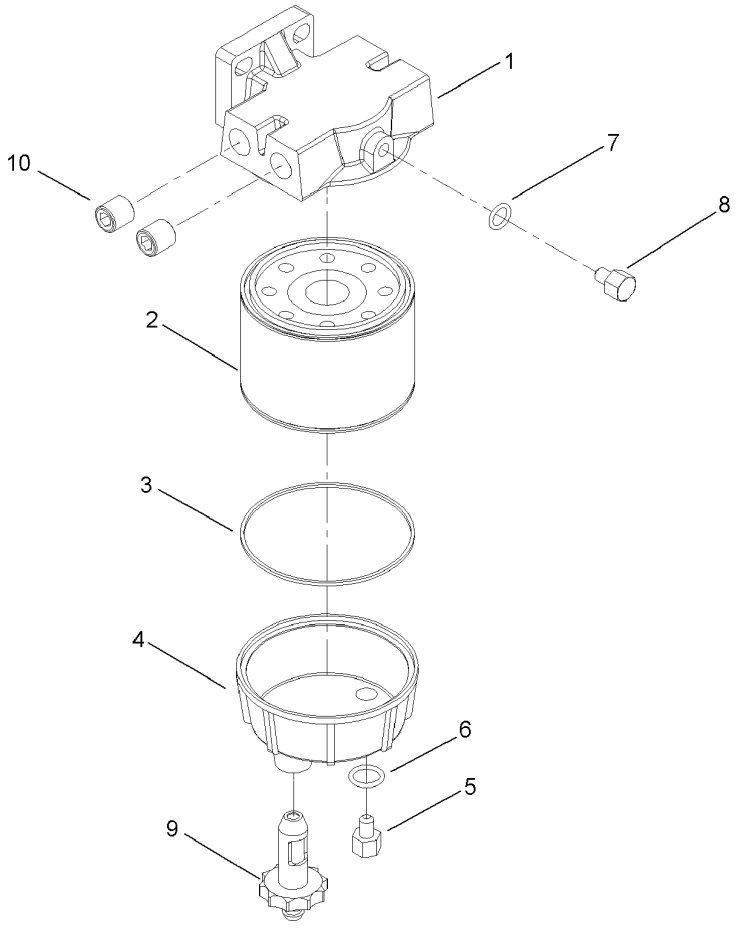
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 42-9250 | 1 | Bolt |
| 2 | 3255-2 | 1 | Washer-Lock / EXT |
| 4 | 42-9850 | 6 | Washer-Lock, Spring |
| 5 | 3255-9 | 1 | Washer-Lock |
| 6 | 33114-020 | 4 | Screw-HH |
| 7 | 100-5632-03 | 1 | Plate-Adapter |
| 8 | 98-1212 | 2 | Pin-Plate, Pump |
| 9 | 58-3590 | 2 | Dowel |
| 10 | 100-5633 | 1 | Spacer-Coupling |
| 11 | 100-5634 | 2 | Bolt-Shoulder |
| 12 | 92-1753 | 1 | Coupling-Spring |
| 13 | 48-9590 | 14 | Washer-Lock |
| 14 | 70-8470 | 6 | Screw-HH |
| 15 | 43-0090 | 8 | Screw-HH |




# Battery Installation Assembly

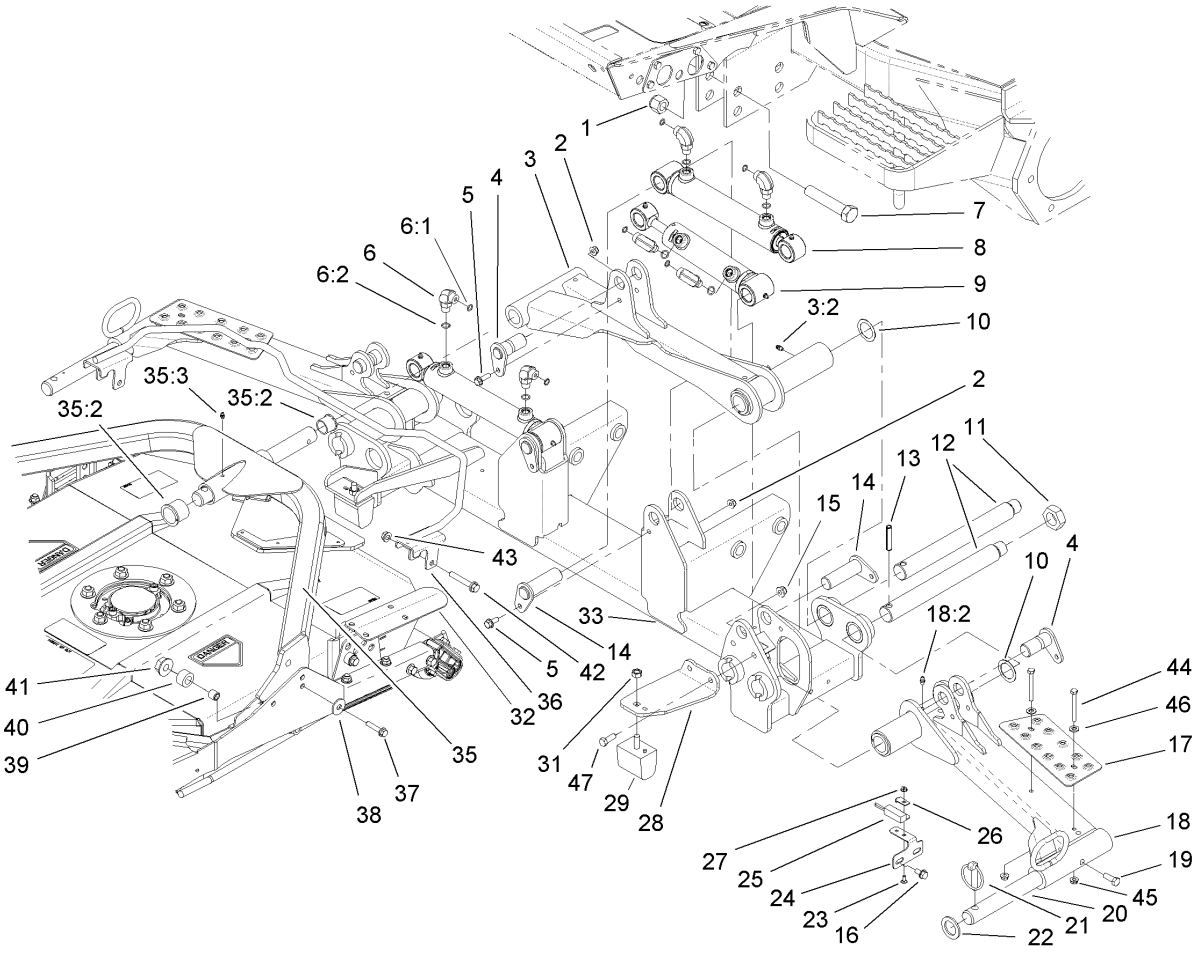
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 93-7968 | 1 | Pad-Foam |
| 2 | 105-3880 | 1 | Cable-Battery, Negative |
| 3 | 105-0114 | 1 | Cable-Battery, Positive |
| 4 | 106-5190 | 1 | Battery |
| 5 | 93-7595 | 1 | Battery Box ASM |
| 6 | 104-5422-03 | 1 | Bracket-Support, Battery |
| 7 | 66-8800 | 1 | Relay |
| 8 | 321-6 | 4 | Screw-HH |
| 9 | 32128-21 | 6 | Nut-HF |
| 13 | 3234-29 | 8 | Screw-HHF |
| 14 | 3296-42 | 4 | Nut-Lock, NI |
| 16 | 323-10 | 3 | Screw-HH |
| 17 | 104-5423-03 | 1 | Tray-Battery |
| 18 | 3234-11 | 2 | Screw-HHF |
| 19 | 32128-20 | 8 | Nut-HF |
| 20 | 104-5420-03 | 1 | Battery Support ASM |
| 21 | 104-5417-03 | 1 | Bracket-Conditioner, Air |
| 22 | 98-9305 | 1 | Water / Fuel Filter ASM |
| 24 | 353-781 | 2 | Fitting-Elbow |
| 33 | 63-7627 | 1 | Hose-Fuel |
| 34 | 92-2379 | 3 | Clamp-Hose |
| 35 | 2412-81 | 2 | Clamp-R |
| 38 | 94-1445 | 1 | Strap-Battery |
| 39 | 3256-22 | 4 | Washer-Flat |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 41 | 323-12 | 1 | Screw-HH |
| 43 | 2412-93 | 1 | Clamp-R |
| 44 | 3234-4 | 1 | Screw-HHF |
| 45 | 32128-33 | 1 | Nut-HF |




# Water / Fuel Filter Assembly No. 98-9305

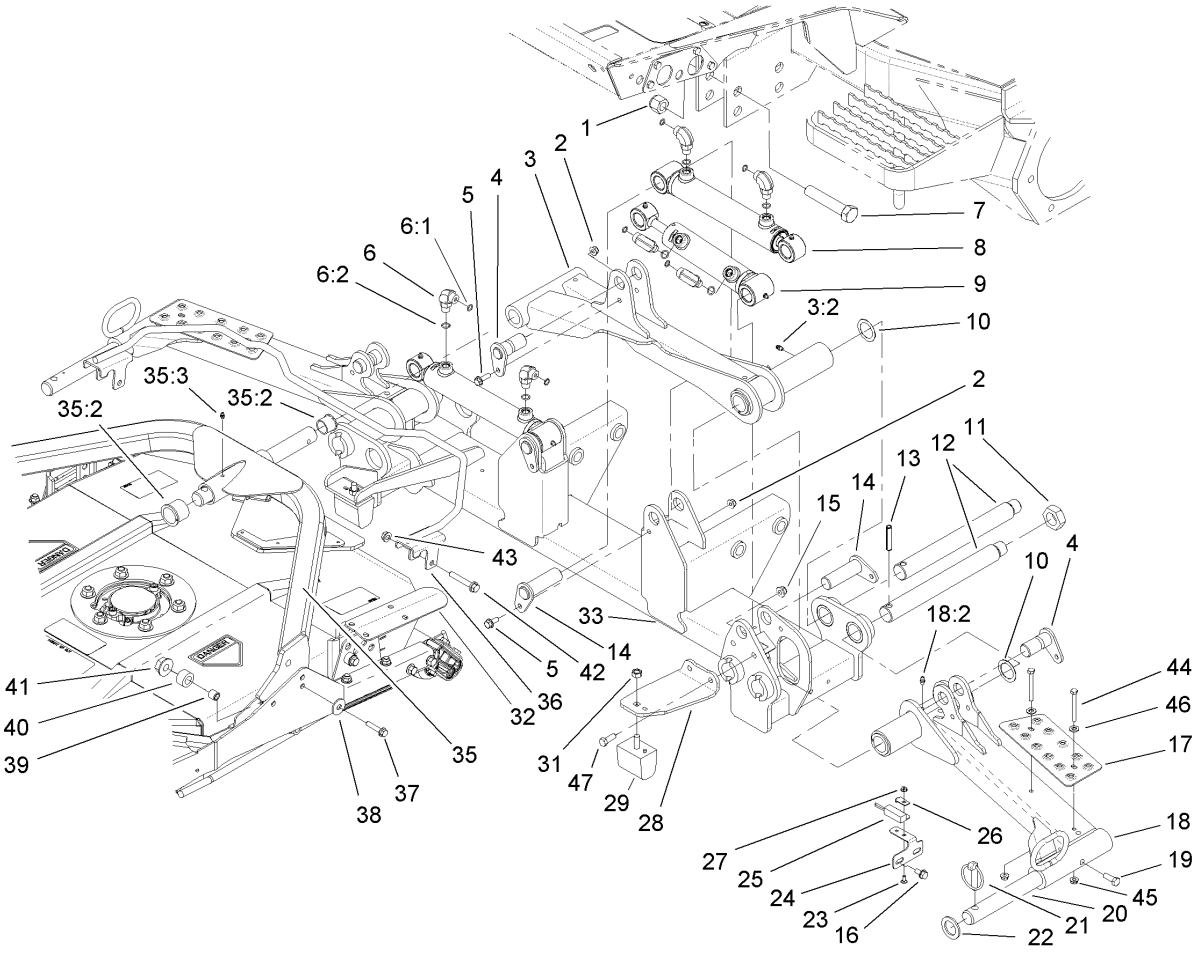
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 98-9772 | 1 | Head-Filter |
| 2 | 98-9764 | 1 | Element |
| 3 | 98-9774 | 1 | O-Ring |
| 4 | 98-9775 | 1 | Base-Filter |
| 5 | 98-9773 | 1 | Plug-Base, Filter |
| 6 | 237-42 | 1 | O-Ring |
| 7 | 237-78 | 1 | O-Ring |
| 8 | 98-9776 | 1 | Plug-Head, Filter |
| 9 | 98-9777 | 1 | Drain Valve ASM |
| 10 | 285-22 | 2 | Plug-Pipe |




# Front Lift Arm Assembly

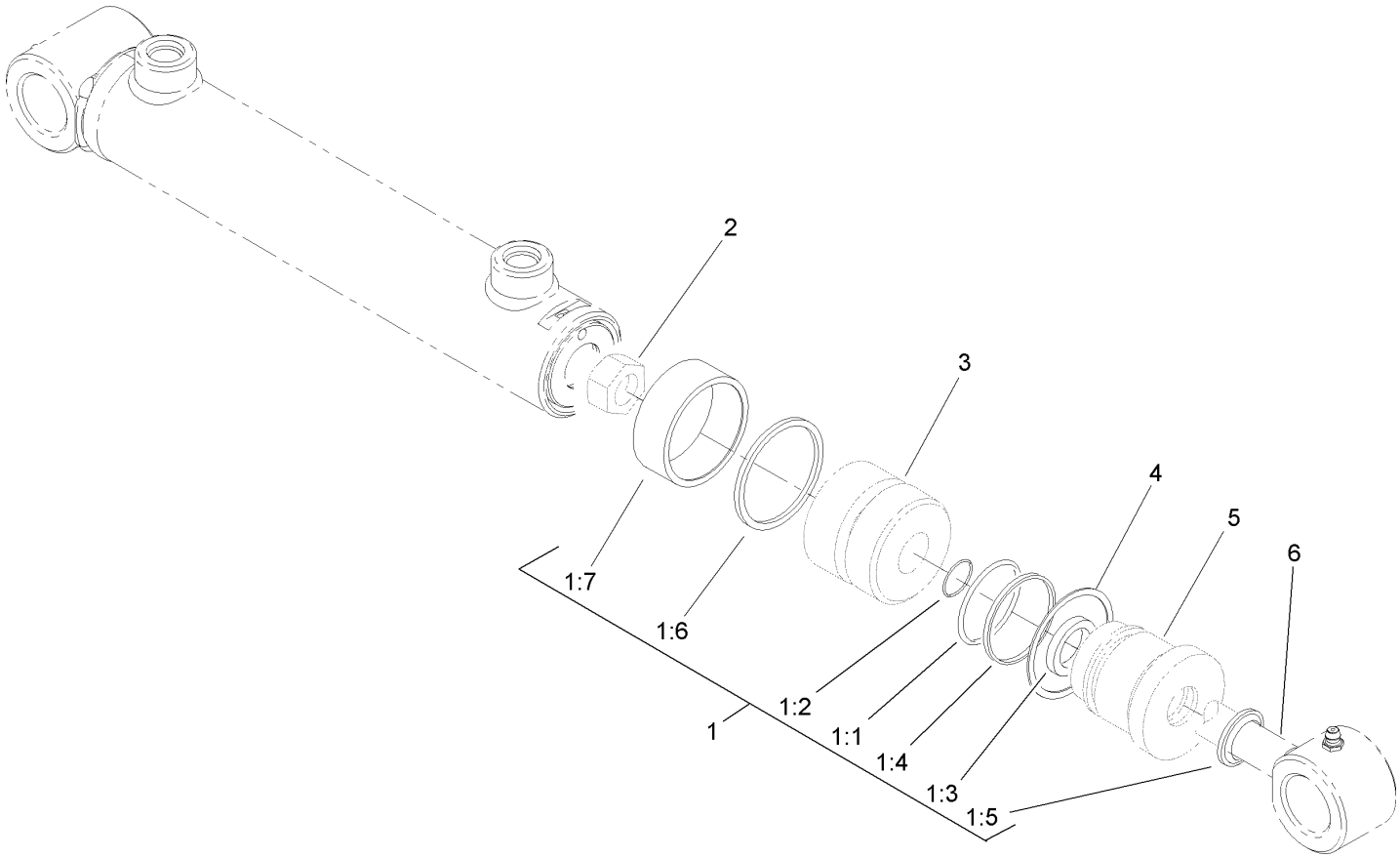
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 3296-51 | 4 | Nut-Lock, NI |
| 2 | 104-8300 | 6 | Nut-Flange, NI |
| 3 | 108-4032 | 1 | No. 1 Liftarm ASM |
| 3:2 | 302-60 | 1 | Fitting-Grease, 90 DEG |
| 4 | 104-5525 | 3 | Cylinder Pin ASM |
| 5 | 3234-17 | 6 | Screw-HHF |
| 6 | 340-77 | 6 | Fitting-HYD, 90 DEG |
| 6:1 | 237-22 | 1 | O-Ring |
| 6:2 | 237-42 | 1 | O-Ring |
| 7 | 328-7 | 4 | Screw-HH |
| 8 | 107-1979 | 2 | Cylinder-Lift |
| 9 | 107-1980 | 1 | Cylinder-Lift |
| 10 | 76-2980 | 3 | Washer-Thrust |
| 11 | 3296-49 | 3 | Nut-Lock, NI |
| 12 | 95-7158 | 3 | Pin-Pivot |
| 13 | 32121-110 | 3 | Pin-Roll, Slotted |
| 14 | 105-9889 | 3 | Cylinder Pin ASM |
| 15 | 104-8301 | 2 | Nut-Flange, NI |
| 16 | 32144-14 | 4 | Screw-HWHTF |
| 17 | 105-3987-03 | 2 | Plate-Skid |
| 18 | 108-4034 | 1 | No. 5 Liftarm ASM |
| 18 | 108-4033 | 1 | No. 4 Liftarm ASM |
| 18:2 | 302-5 | 1 | Fitting-Grease |
| 19 | 323-6 | 3 | Screw-HH |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 20 | 108-4023 | 3 | Shaft-Carrier, Pivot |
| 21 | 283-71 | 3 | Pin-Lynch |
| 22 | 3-6781 | 3 | Washer-Thrust |
| 23 | 104-1450 | 2 | Bolt-CARR |
| 24 | 104-5585 | 2 | Bracket-Switch |
| 25 | 100-1270 | 2 | Switch-Proximity |
| 26 | 100-4872 | 2 | Plate-Switch, Neutral |
| 27 | 32149-7 | 2 | Nut-Keps |
| 28 | 104-5689-03 | 1 | Bracket-Support, Bumper |
| 29 | 87-3470 | 2 | Bumper-Axle, Rear |
| 31 | 33025-00 | 2 | Nut-Lock |
| 32 | 105-9831-03 | 2 | Bracket-Bumper, No. 1 |
| 33 | 104-5680-03 | 1 | Front Carrier Frame ASM |
| 35 | 104-5656 | 5 | Carrier Frame ASM |
| 35:2 | 108-4000 | 2 | Bushing |
| 35:3 | 302-5 | 1 | Fitting-Grease |
| 36 | 107-7803-03 | 4 | Foot Guard ASM |
| 37 | 3234-18 | 10 | Screw-HHF |
| 38 | 93-8806 | 10 | Washer-Hardened |
| 39 | 105-9822 | 10 | Spacer |
| 40 | 105-9823 | 10 | Bushing-Carrier |
| 41 | 104-8301 | 10 | Nut-Flange, NI |
| 42 | 100-2592 | 8 | Screw-HHF |
| 43 | 3290-357 | 8 | Nut-HHF, Whiz |



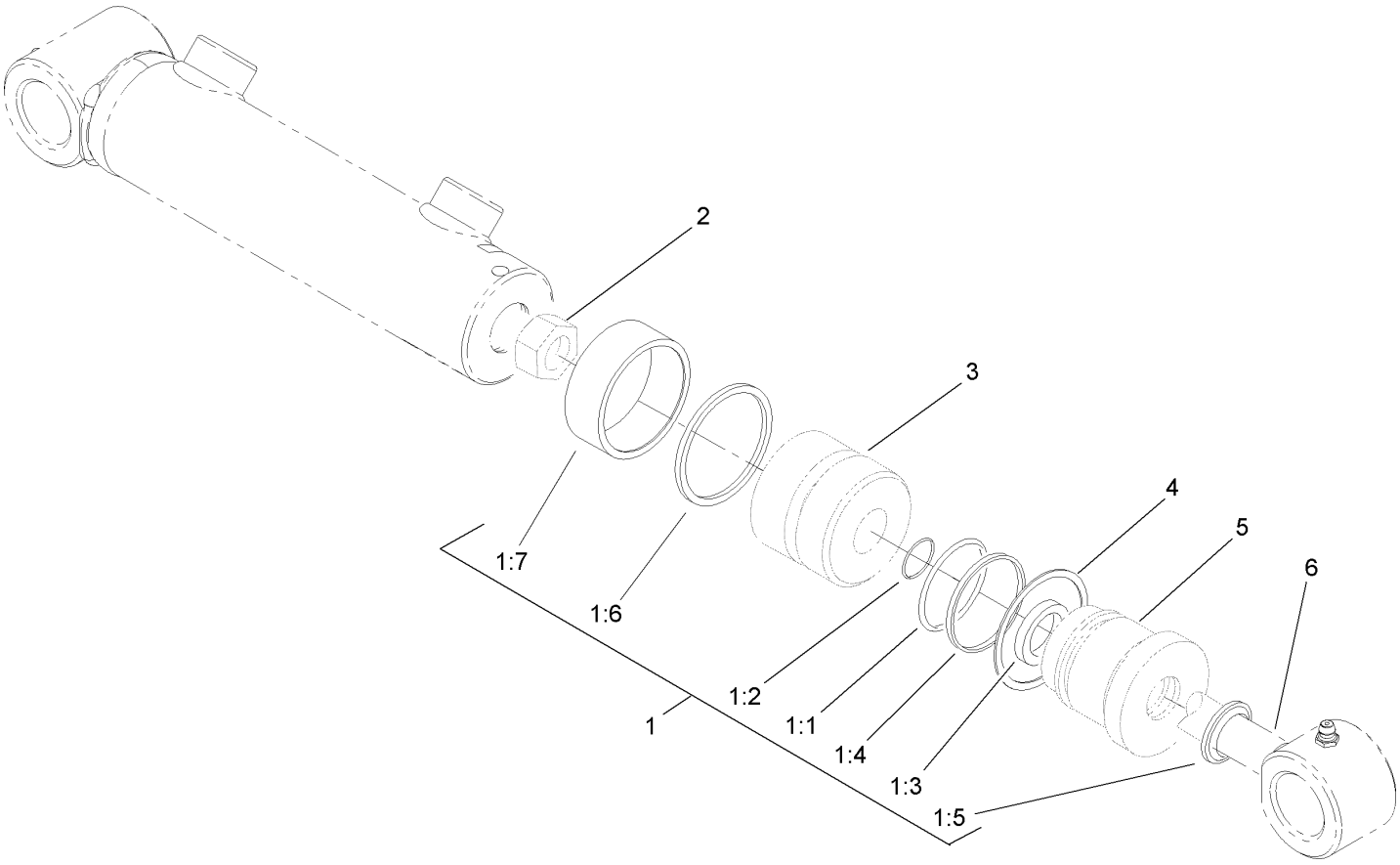

# Front Lift Arm Assembly (continued)

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 44 | 321-15 | 4 | Screw-HH |
| 45 | 32128-33 | 4 | Nut-HF |
| 46 | 3256-23 | 4 | Washer-Flat |
| 47 | 323-7 | 2 | Screw-HH |



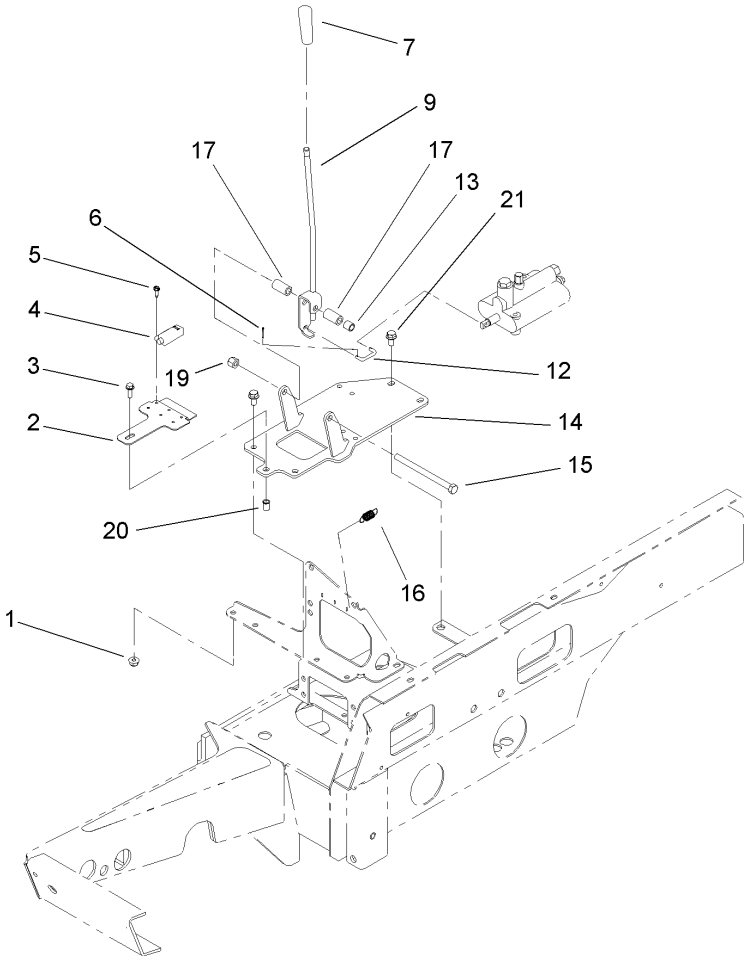

# Hydraulic Cylinder Assembly No. 107-1979

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 107-1977 | 1 | Seal Kit |
| ❷1:1 | | 1 | Seal-Dust |
| ❷1:2 | | 1 | Seal-Dust |
| ❷1:3 | | 1 | Seal ASM |
| ❷1:4 | | 1 | Back-Up |
| ❷1:5 | | 1 | Wiper |
| ❷1:6 | | 1 | Seal W/O-Ring |
| ❷1:7 | | 1 | Ring-Wear |
| ❷2 | | 1 | Locknut |
| ❷3 | | 1 | Piston |
| ❷4 | | 1 | Ring-Retaining |
| ❷5 | | 1 | Head |
| ❷6 | | 1 | Rod ASM |



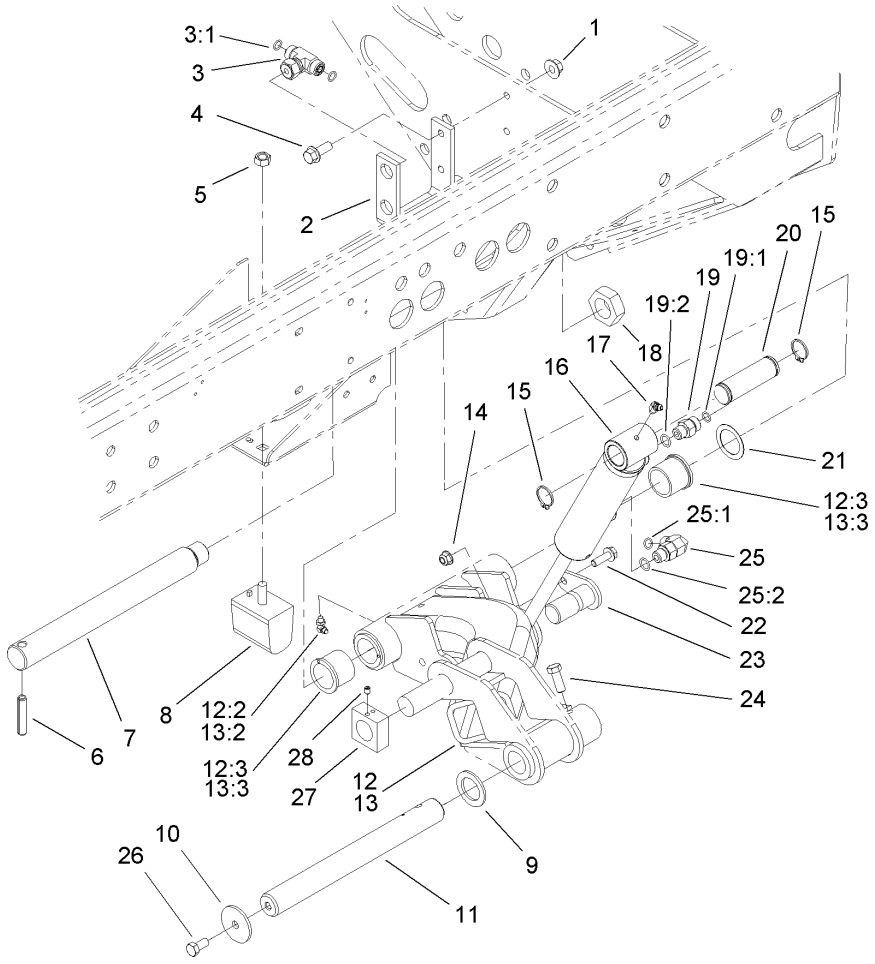

# Hydraulic Cylinder Assembly No. 107-1980

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 107-1977 | 1 | Seal Kit |
| ❷1:1 | | 1 | Seal-Dust |
| ❷1:2 | | 1 | Seal-Dust |
| ❷1:3 | | 1 | Seal ASM |
| ❷1:4 | | 1 | Back-Up |
| ❷1:5 | | 1 | Wiper |
| ❷1:6 | | 1 | Seal W/O-Ring |
| ❷1:7 | | 1 | Ring-Wear |
| ❷2 | | 1 | Locknut |
| ❷3 | | 1 | Piston |
| ❷4 | | 1 | Ring-Retaining |
| ❷5 | | 1 | Head |
| ❷6 | | 1 | Rod ASM |




# Lift Lever Assembly

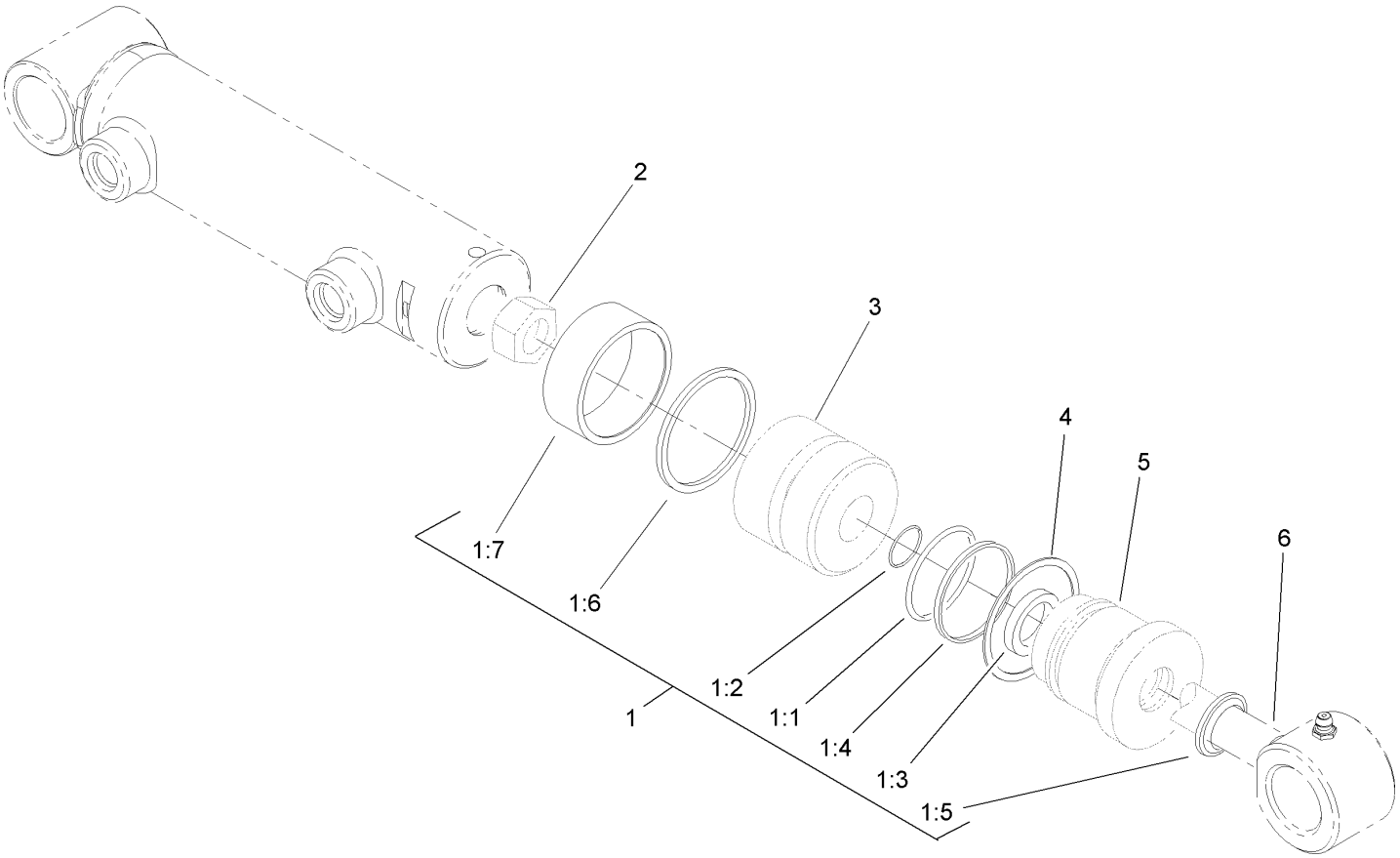
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-8300 | 2 | Nut-Flange, NI |
| 2 | 104-5530 | 1 | Plate-Switch |
| 3 | 3234-4 | 1 | Screw-HHF |
| 4 | 105-0023 | 1 | Switch-Proximity |
| 5 | 32144-19 | 2 | Screw-SHWH |
| 6 | 3272-1 | 2 | Pin-Cotter |
| 7 | 233-39 | 1 | Knob-Control |
| 9 | 104-5616 | 1 | Center Lever ASM |
| 12 | 69-9140 | 1 | Link-Lever, Valve |
| 13 | 65-9980 | 1 | Spacer |
| 14 | 104-5606-03 | 1 | Valve Support ASM |
| 15 | 323-39 | 1 | Screw-HH |
| 16 | 105-3938 | 1 | Spring-Extension |
| 17 | 61-2780-03 | 2 | Spacer-Tube |
| 19 | 3296-39 | 1 | Nut-Lock, NI |
| 20 | 32148-6 | 1 | Insert-Nut |
| 21 | 3234-14 | 4 | Screw-HHF |




# No. 2 and 3 Lift Arm Assembly

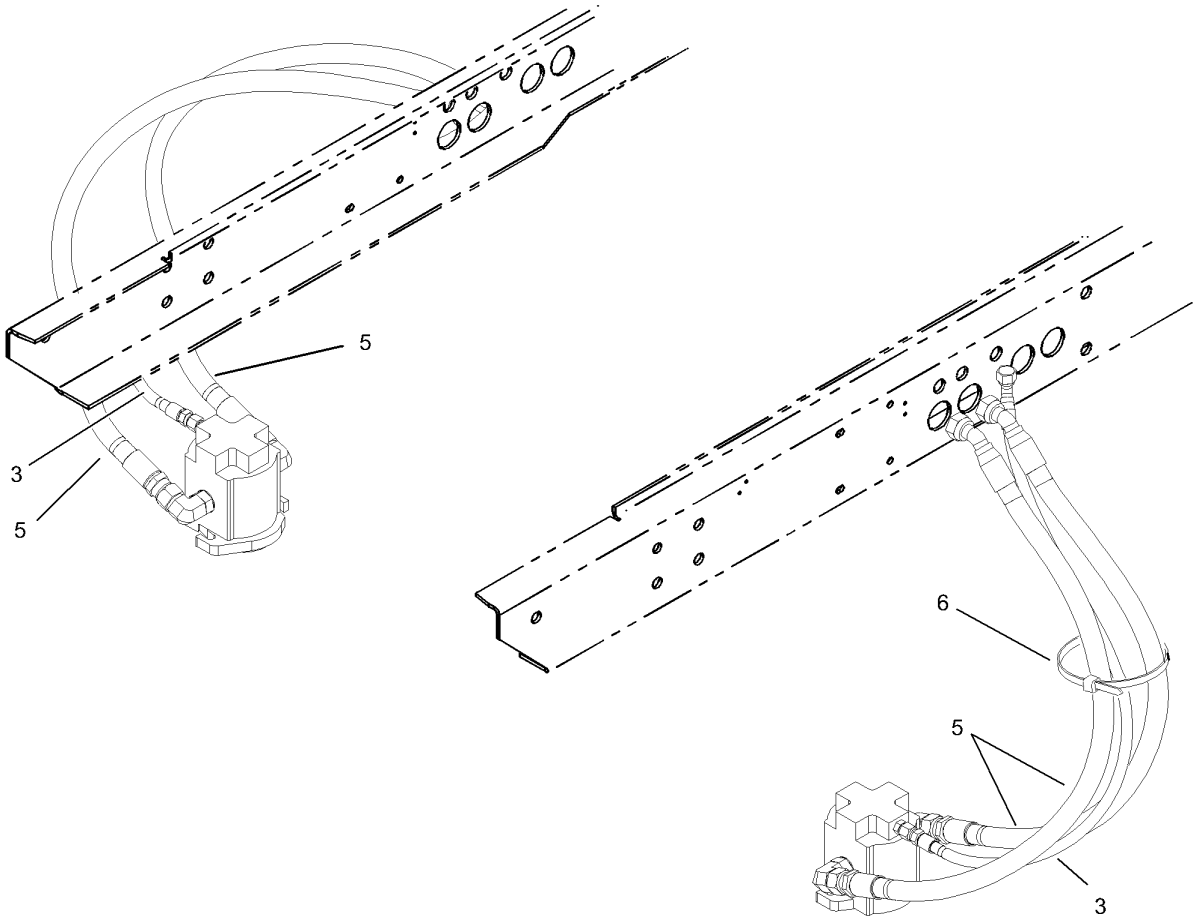
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 32128-20 | 2 | Nut-HF |
| 2 | 105-3992-03 | 1 | Bracket-Bulkhead |
| 3 | 340-166 | 2 | Fitting-Tee, HYD |
| 3:1 | 237-22 | 1 | O-Ring |
| 4 | 3234-17 | 2 | Screw-HHF |
| 5 | 33025-00 | 2 | Nut-Lock |
| 6 | 32121-110 | 2 | Pin-Roll, Slotted |
| 7 | 95-7158 | 2 | Pin-Pivot |
| 8 | 87-3470 | 2 | Bumper-Axle, Rear |
| 9 | 3-6781 | 2 | Washer-Thrust |
| 10 | 63-7400 | 2 | Washer-Rebound |
| 11 | 105-9827 | 2 | Shaft |
| 12 | 105-9202 | 1 | No. 2 Lift Arm ASM |
| 12:2 | 302-60 | 1 | Fitting-Grease, 90 DEG |
| 12:3 | 104-0015 | 2 | Bushing-Flange |
| 13 | 105-9203 | 1 | No. 3 Lift Arm ASM |
| 13:2 | 302-60 | 1 | Fitting-Grease, 90 DEG |
| 13:3 | 104-0015 | 2 | Bushing-Flange |
| 14 | 104-8300 | 2 | Nut-Flange, NI |
| 15 | 32151-36 | 4 | Ring-Retaining |
| 16 | 107-1978 | 2 | Cylinder-Lift |
| 17 | 302-11 | 2 | Fitting-Lube, 45 DEG |
| 18 | 3296-49 | 2 | Nut-Lock, NI |
| 19 | 340-2 | 2 | Fitting-HYD, Straight |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 19:1 | 237-22 | 1 | O-Ring |
| 19:2 | 237-42 | 1 | O-Ring |
| 20 | 92-7548 | 2 | Pin-Cylinder |
| 21 | 76-2980 | 2 | Washer-Thrust |
| 22 | 3234-17 | 2 | Screw-HHF |
| 23 | 104-5525 | 2 | Cylinder Pin ASM |
| 24 | 323-6 | 2 | Screw-HH |
| 25 | 340-77 | 2 | Fitting-HYD, 90 DEG |
| 25:1 | 237-22 | 1 | O-Ring |
| 25:2 | 237-42 | 1 | O-Ring |
| 26 | 323-4 | 2 | Screw-HH |
| 27 | 105-9839 | 2 | Stop-Rotation, No. 2 And 3 |
| 28 | 3245-7 | 4 | Screw-Set |



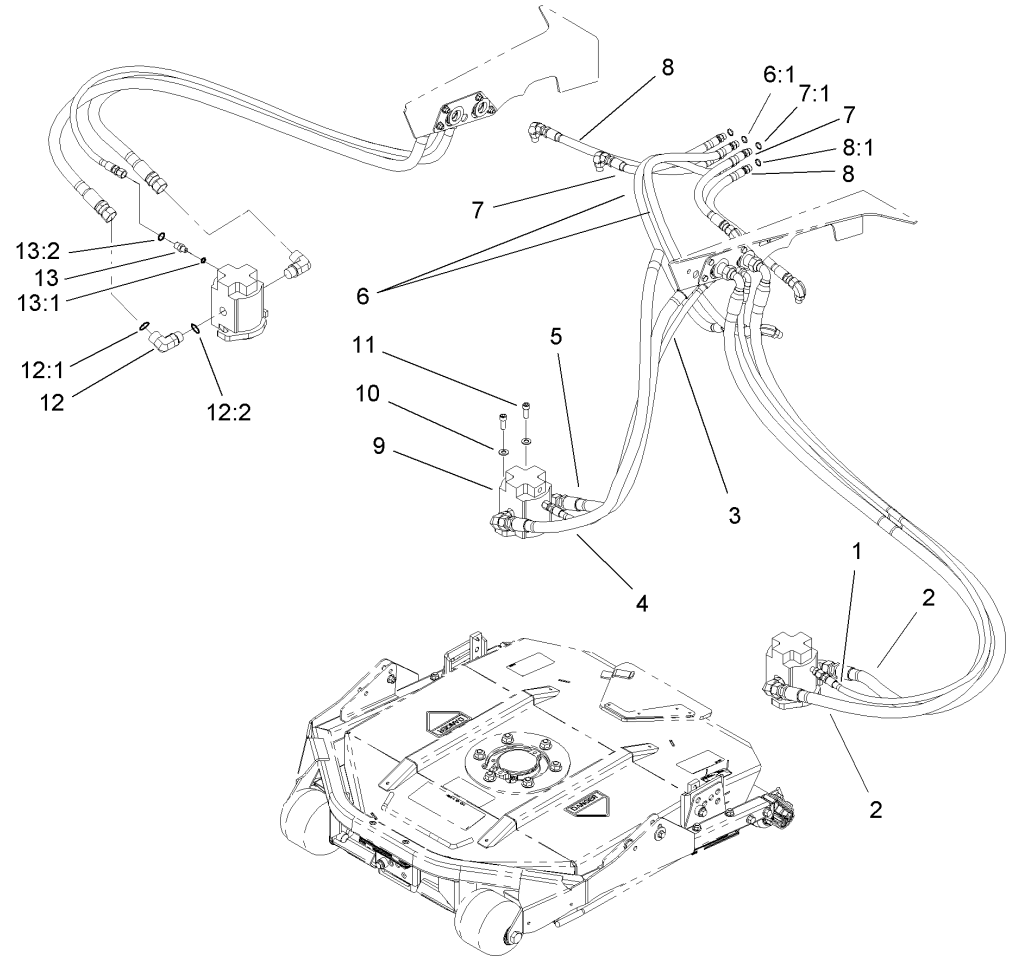

# Hydraulic Cylinder Assembly No. 107-1978

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 107-1977 | 1 | Seal Kit |
| ❷1:1 | | 1 | Seal-Dust |
| ❷1:2 | | 1 | Seal-Dust |
| ❷1:3 | | 1 | Seal ASM |
| ❷1:4 | | 1 | Back-Up |
| ❷1:5 | | 1 | Wiper |
| ❷1:6 | | 1 | Seal W/O-Ring |
| ❷1:7 | | 1 | Ring-Wear |
| ❷2 | | 1 | Locknut |
| ❷3 | | 1 | Piston |
| ❷4 | | 1 | Ring-Retaining |
| ❷5 | | 1 | Head |
| ❷6 | | 1 | Rod ASM |



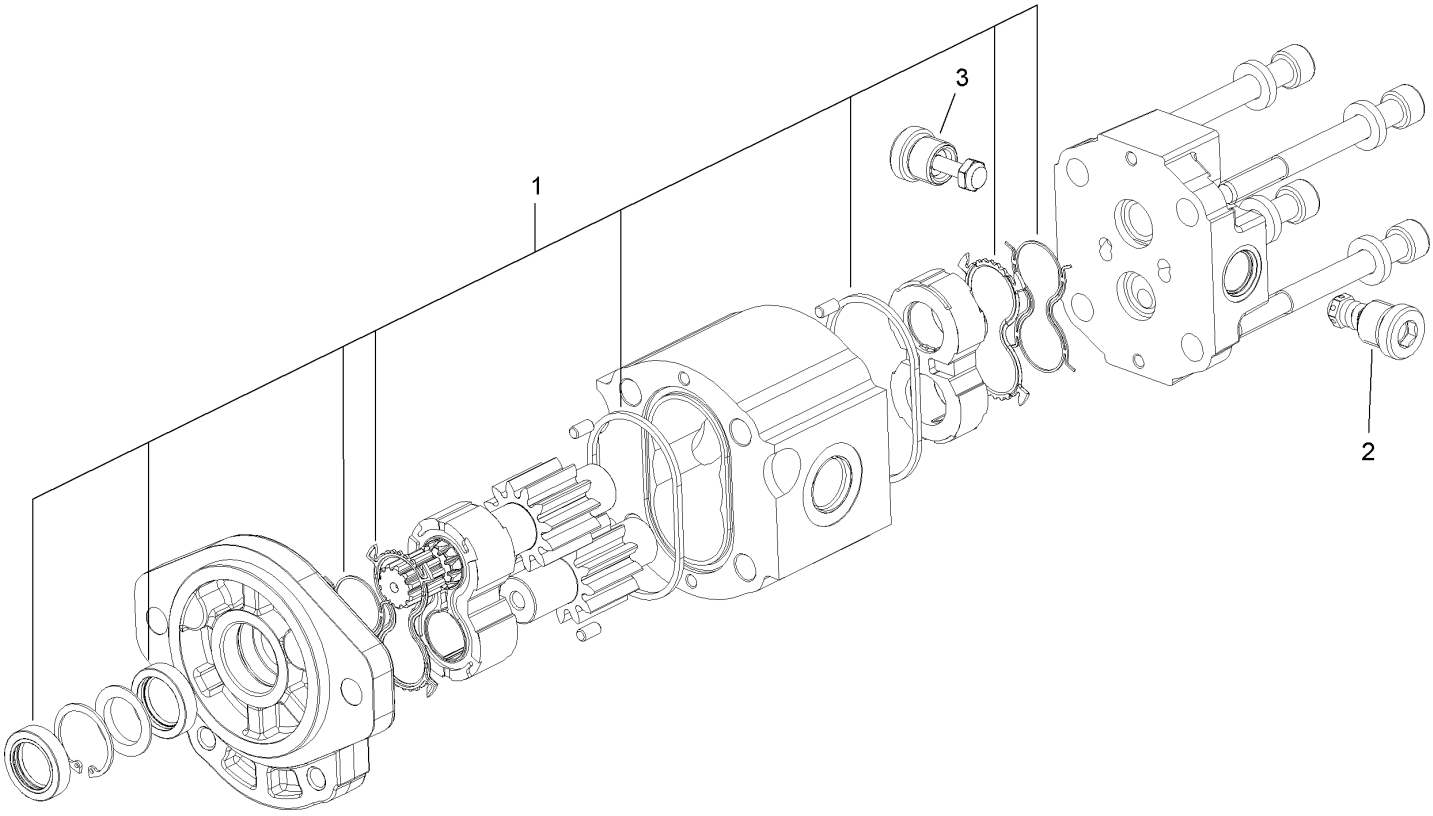

# No. 2 and 3 Hose Installation Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 3 | 104-5502 | 2 | Hose ASM |
| 5 | 104-5505 | 4 | Hose ASM |
| 6 | 3290-379 | 2 | Tie-Cable |



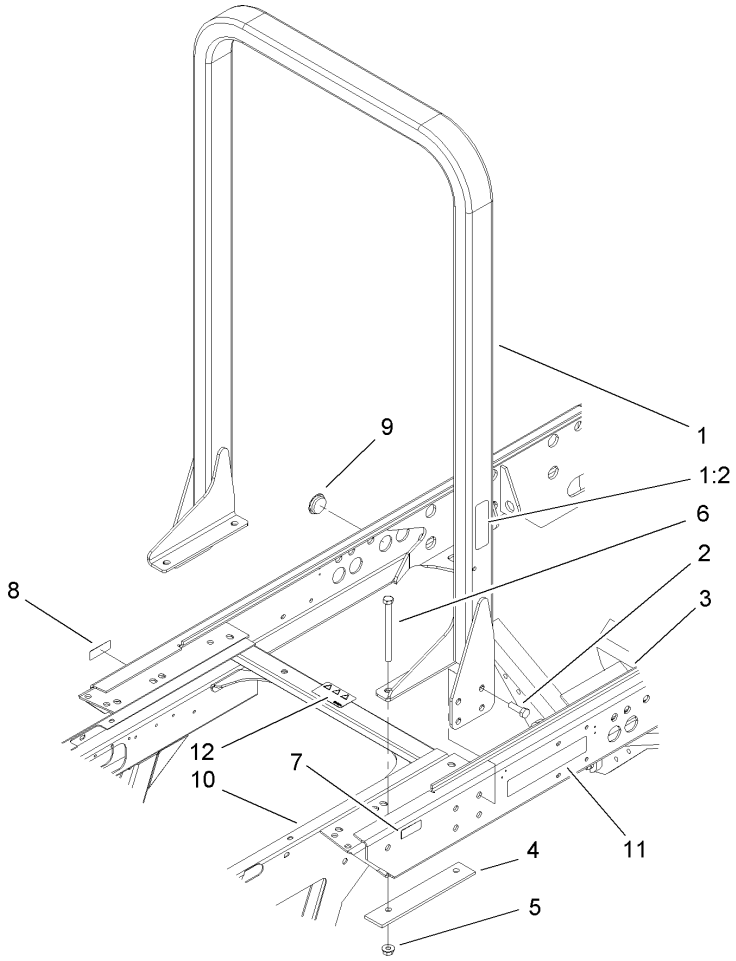

# No. 1, 4 and 5 Hose Installation Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-5500 | 2 | Hose ASM |
| 2 | 104-5501 | 4 | Hose ASM |
| 3 | 104-5502 | 1 | Hose ASM |
| 4 | 104-5504 | 1 | Hose ASM |
| 5 | 104-5505 | 1 | Hose ASM |
| 6 | 104-5511 | 2 | Hose ASM |
| 6:1 | 237-42 | 1 | O-Ring |
| 7 | 104-5512 | 2 | Hose ASM |
| 7:1 | 237-42 | 1 | O-Ring |
| 8 | 104-5513 | 2 | Hose ASM |
| 8:1 | 237-42 | 1 | O-Ring |
| 9 | 105-9872 | 5 | Motor-HYD |
| 10 | 3256-24 | 10 | Washer-Flat |
| 11 | 3274-7 | 10 | Screw-HSH |
| 12 | 340-17 | 10 | Fitting-HYD, 90 DEG |
| 12:1 | 237-65 | 1 | O-Ring |
| 12:2 | 237-80 | 1 | O-Ring |
| 13 | 340-92 | 5 | Fitting-HYD, Straight |
| 13:1 | 237-78 | 1 | O-Ring |
| 13:2 | 237-21 | 1 | O-Ring |



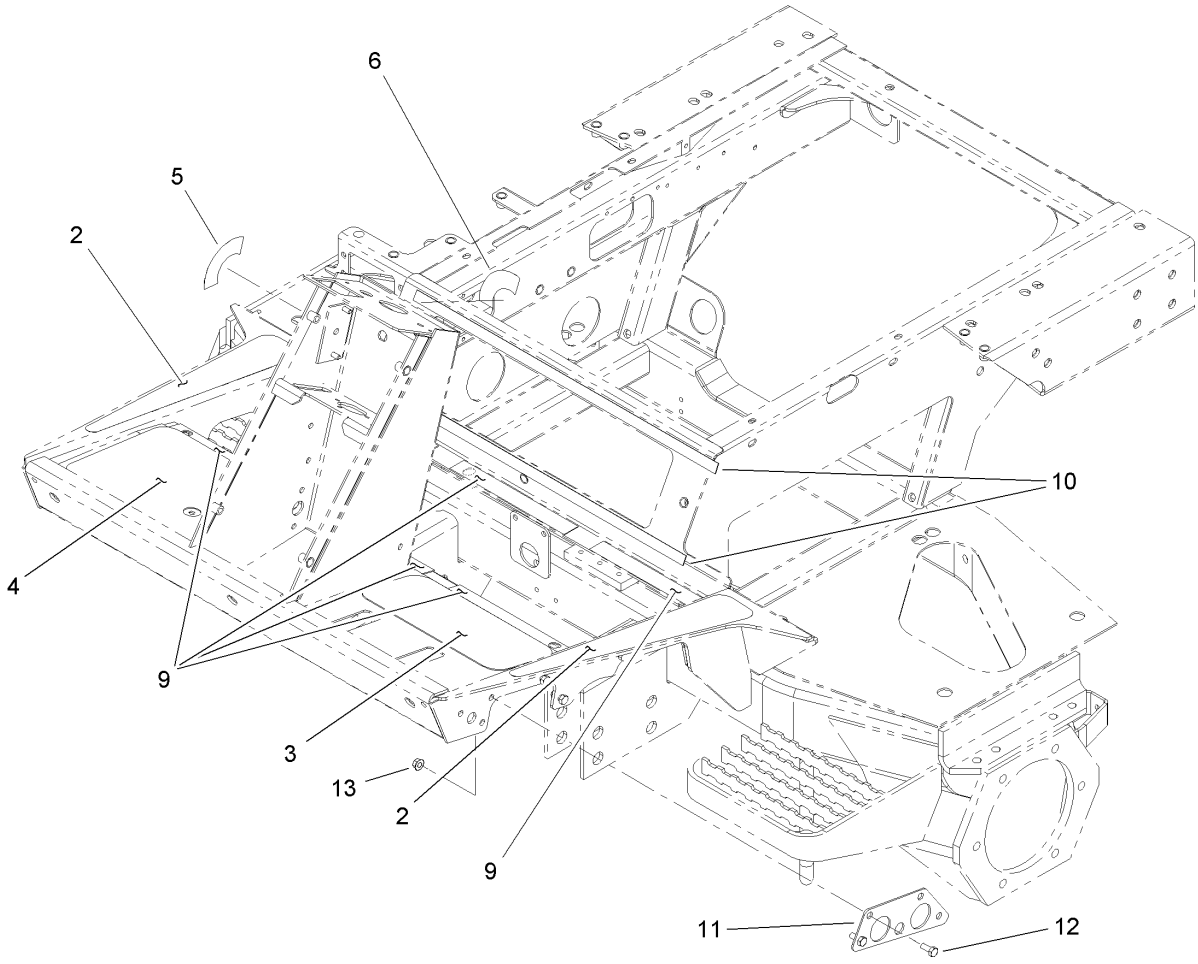

# Hydraulic Motor Assembly No. 105-9872

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 107-7819 | 1 | Seal Kit |
| 2 | 107-7820 | 1 | Valve-Relief |
| 3 | 107-7821 | 1 | Valve-Anticavitation |



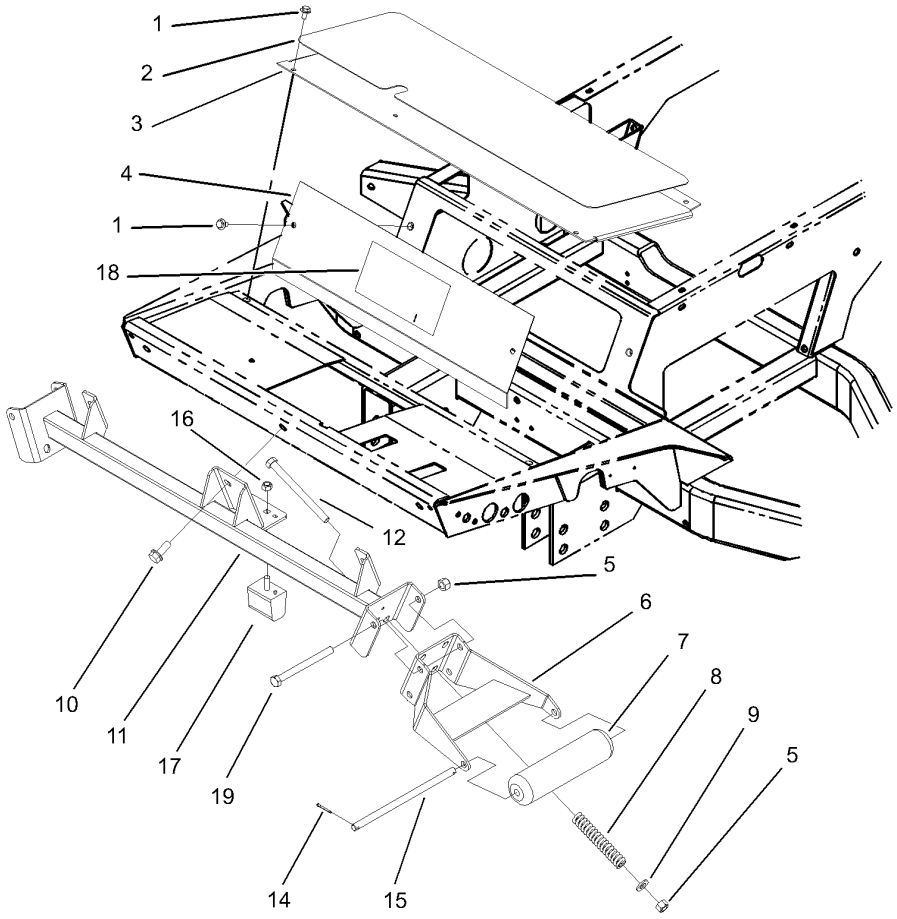

# Roll-Over Protection System and Frame Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 108-4018 | 1 | ROPS ASM |
| 1:2 | 107-1999 | 1 | Decal-ROPS |
| 2 | 3234-38 | 10 | Screw-HHF |
| 3 | 104-5410-03 | 1 | Frame-Rear |
| 4 | 104-5584-03 | 2 | Plate-Reinforcement, ROPS |
| 5 | 32128-49 | 4 | Nut-HHF |
| 6 | 325-20 | 4 | Screw-HH |
| 7 | 93-6680 | 1 | Decal-Diesel |
| 8 | 93-6686 | 1 | Decal-Oil, HYD |
| 9 | 105-9194 | 4 | Plug |
| 10 | 108-6051 | 1 | Front Frame ASM |
| 11 | 72-3560 | 2 | Decal |
| 12 | 106-6754 | 1 | Decal-Danger |



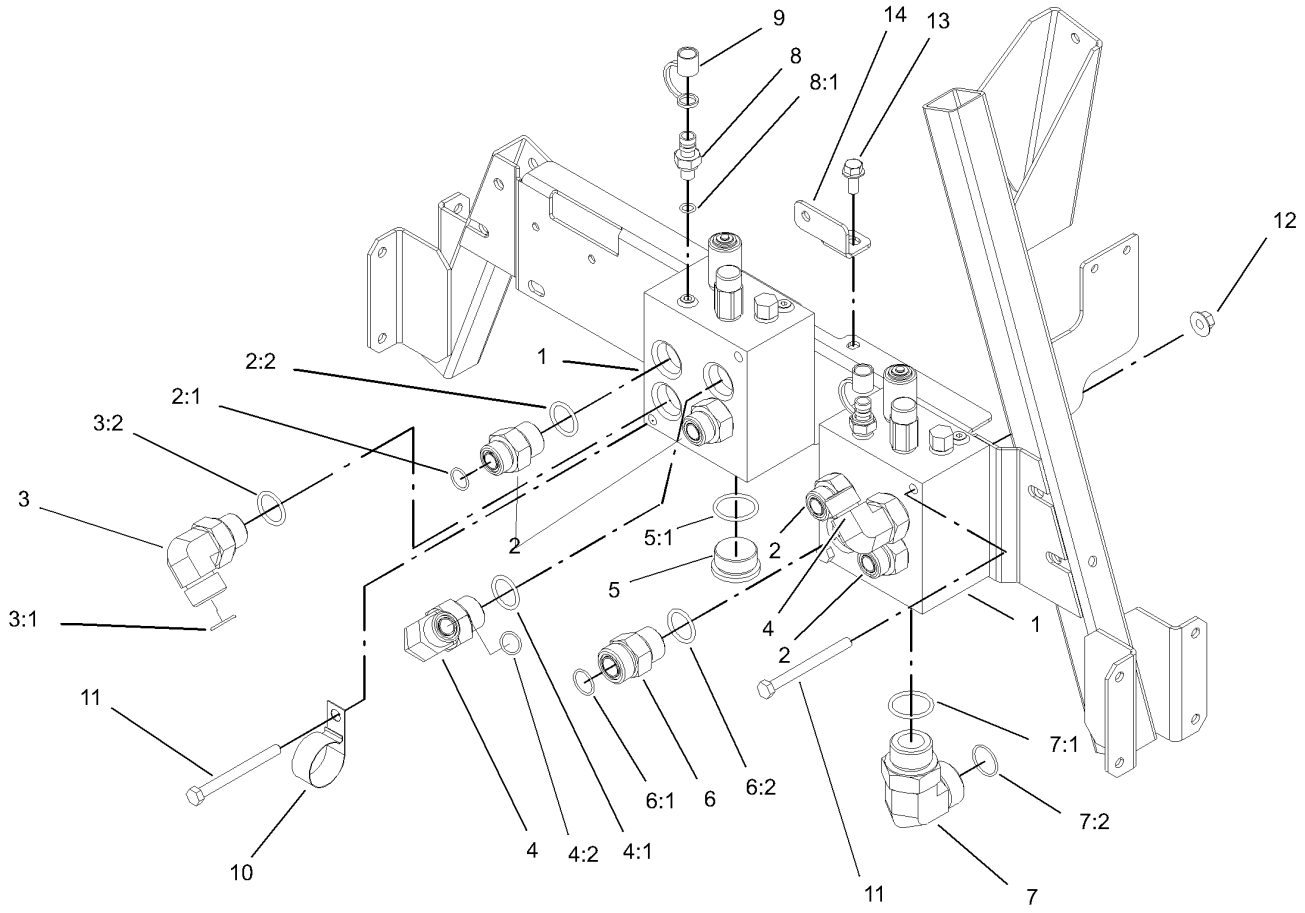

# Front Frame Assembly No. 108-6051

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 2 | 93-7592 | 2 | Tread-Rest, Foot |
| 3 | 75-0620 | 1 | Tread-Foot, LH |
| 4 | 104-5223 | 1 | Tread-Foot, RH |
| 5 | 93-6699 | 1 | Decal-Fast / Slow |
| 6 | 105-7506 | 1 | Decal-Switch, Key |
| 9 | 105-9859 | 6 | Seal-Foam |
| 10 | 105-9860 | 2 | Seal-Foam |
| 11 | 106-7794-01 | 2 | Plate-Mount, HYD Fitting |
| 12 | 322-3 | 7 | Screw-HH |
| 13 | 32128-20 | 7 | Nut-HF |




# Roller Support and Access Panel Assembly

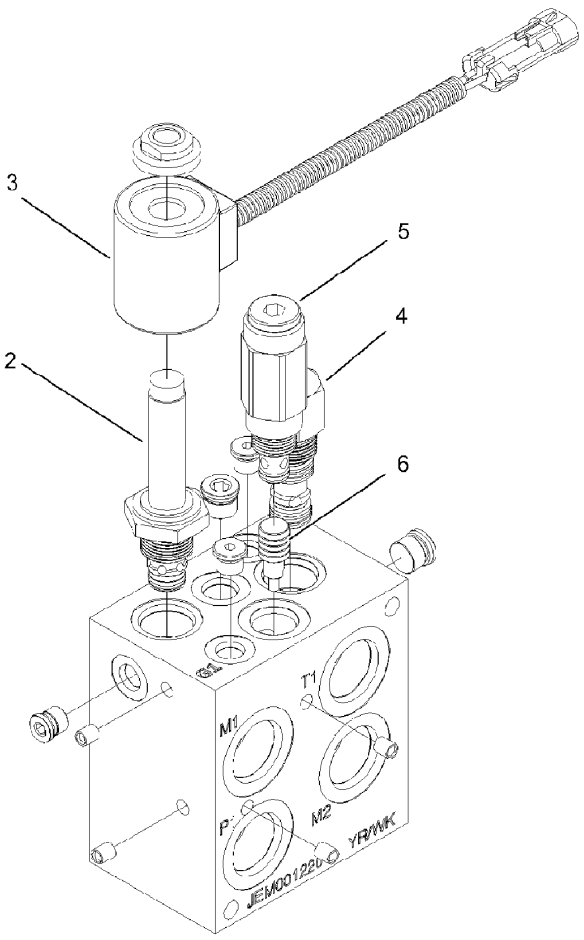
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 3234-7 | 7 | Screw-HHF |
| 2 | 75-0630 | 1 | Tread-Foot, Center |
| 3 | 75-1410-01 | 1 | Plate-Access, Floor |
| 4 | 105-9243-01 | 1 | Plate-Access |
| 5 | 3296-23 | 4 | Nut-Lock, NI |
| 6 | 105-3996-01 | 2 | Roller Support ASM |
| 7 | 105-9816 | 2 | Roller-Plastic |
| 8 | 105-3970 | 2 | Spring-Compression |
| 9 | 3256-26 | 2 | Washer-Flat |
| 10 | 3234-38 | 3 | Screw-HHF |
| 11 | 104-5539-01 | 1 | Roller Support ASM |
| 12 | 325-22 | 2 | Screw-HH |
| 14 | 3272-11 | 4 | Pin-Cotter |
| 15 | 104-5545 | 2 | Shaft-Roller |
| 16 | 33025-00 | 1 | Nut-Lock |
| 17 | 87-3470 | 1 | Bumper-Axle, Rear |
| 18 | 105-3889 | 1 | Decal-Danger |
| 18 | 107-1983 | 1 | Decal-Warning |
| 19 | 325-20 | 2 | Screw-HH |




# Manifold Assembly

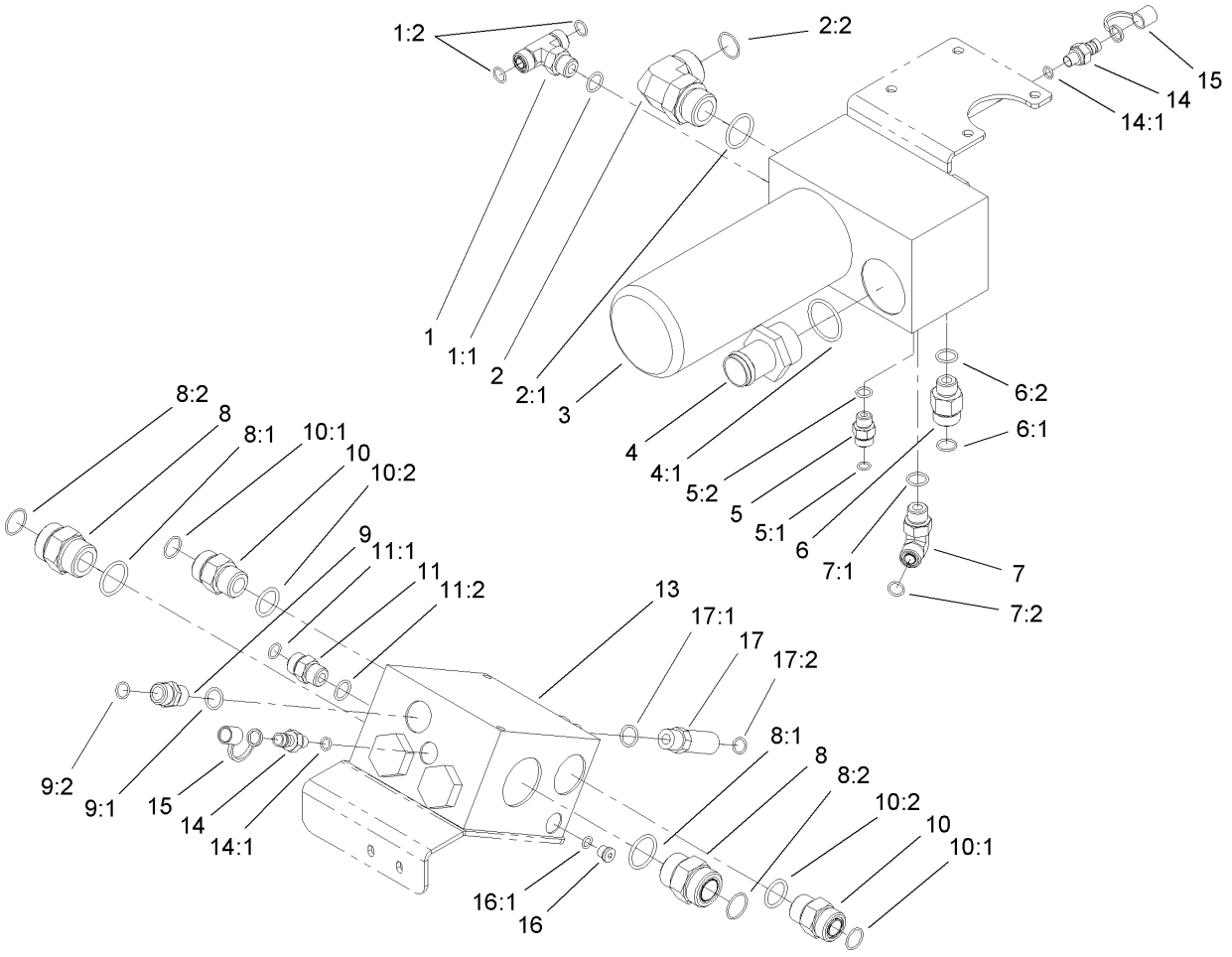
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-5475 | 2 | Manifold ASM |
| 2 | 340-8 | 4 | Adapter |
| 2:1 | 237-65 | 1 | O-Ring |
| 2:2 | 237-81 | 1 | O-Ring |
| 3 | 340-142 | 1 | Fitting-HYD, 90 DEG |
| 3:1 | 237-58 | 1 | O-Ring |
| 3:2 | 237-81 | 1 | O-Ring |
| 4 | 340-139 | 2 | Fitting-HYD, 90 DEG |
| 4:1 | 237-81 | 1 | O-Ring |
| 4:2 | 237-65 | 1 | O-Ring |
| 5 | 105-3921 | 1 | Fitting-Plug |
| 5:1 | 237-146 | 1 | O-Ring |
| 6 | 340-9 | 1 | Fitting-Straight |
| 6:1 | 237-58 | 1 | O-Ring |
| 6:2 | 237-81 | 1 | O-Ring |
| 7 | 340-129 | 1 | Fitting-HYD, 90 DEG |
| 7:1 | 237-146 | 1 | O-Ring |
| 7:2 | 340-65 | 1 | O-Ring |
| 8 | 354-77 | 2 | Fitting-Quick |
| 8:1 | 237-78 | 1 | O-Ring |
| 9 | 354-79 | 2 | Cap-Dust |
| 10 | 2412-150 | 1 | Clip-J |
| 11 | 322-22 | 4 | Screw-HH |
| 12 | 32128-44 | 5 | Nut |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 13 | 3234-5 | 1 | Screw-HHF |
| 14 | 104-5487 | 1 | Bracket-L |




# Manifold Assembly No. 104-5475

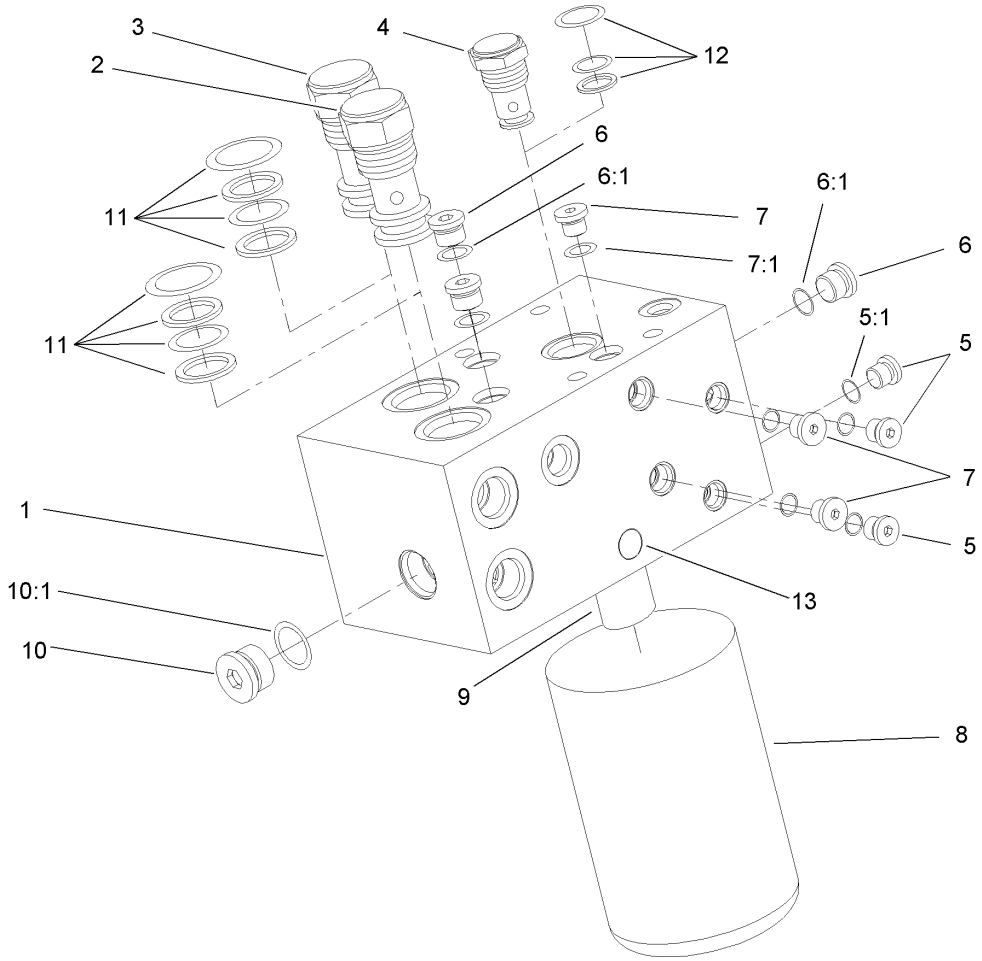
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 2 | 105-9150 | 1 | Relief-Proportional |
| ❶2:1 | 105-9151 | 1 | Seal Kit |
| 3 | 105-9152 | 1 | Coil ASM |
| 4 | 105-9153 | 1 | Element-Logic, Vented |
| ❶4:1 | 105-9154 | 1 | Seal Kit |
| 5 | 105-9155 | 1 | Valve-Relief |
| ❶5:1 | 105-9156 | 1 | Seal Kit |
| 6 | 105-9157 | 1 | Piston-Pilot |




# 4 Wheel Drive Manifold and Filter Assembly

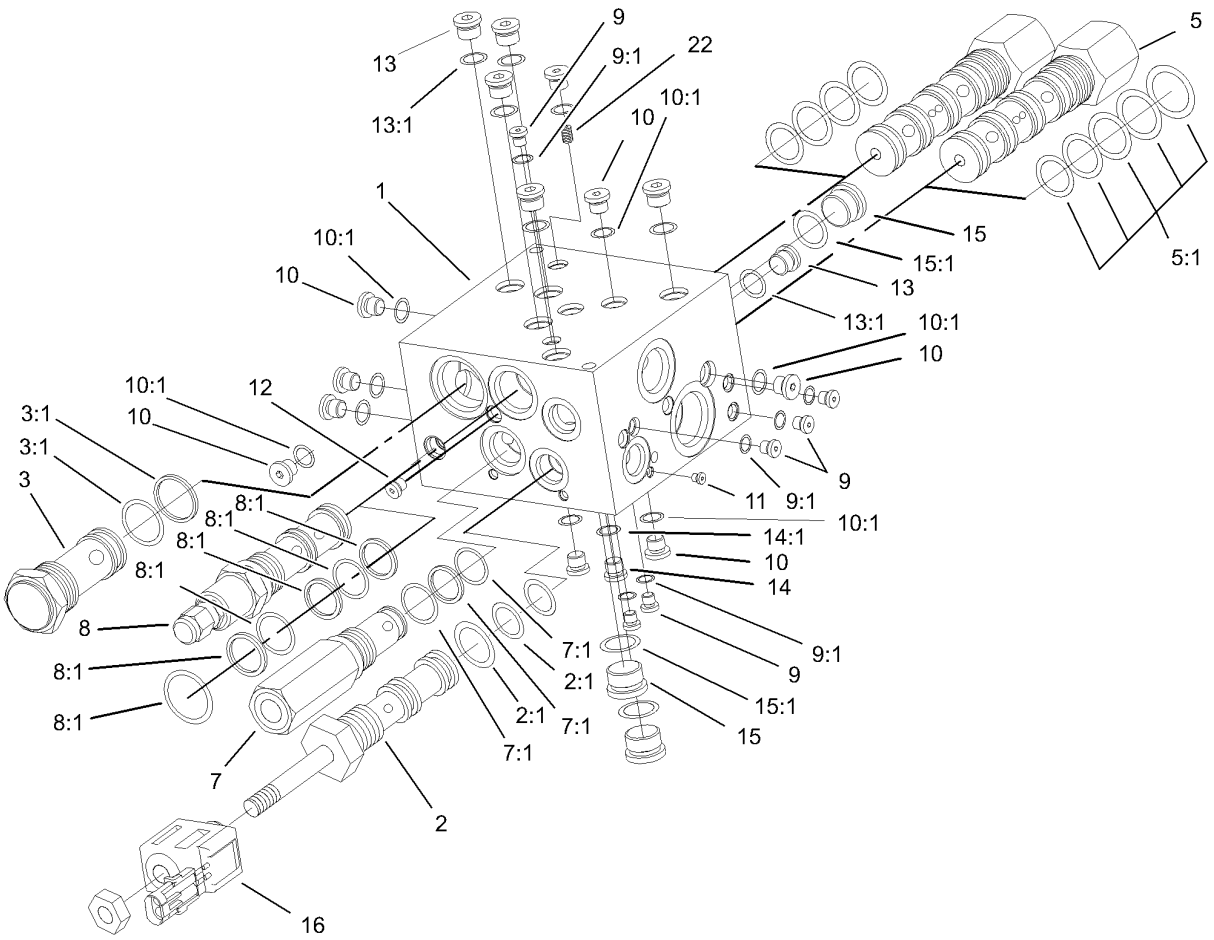
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 340-157 | 1 | Fitting-HYD, Tee |
| 1:1 | 237-79 | 1 | O-Ring |
| 1:2 | 237-30 | 2 | O-Ring |
| 2 | 340-129 | 1 | Fitting-HYD, 90 DEG |
| 2:1 | 237-146 | 1 | O-Ring |
| 2:2 | 340-65 | 1 | O-Ring |
| 3 | 100-5558 | 1 | Manifold-Filter |
| 4 | 104-5480 | 1 | Fitting-Hose, Straight |
| 4:1 | 237-123 | 1 | O-Ring |
| 5 | 340-2 | 1 | Fitting-HYD, Straight |
| 5:1 | 237-22 | 1 | O-Ring |
| 5:2 | 237-42 | 1 | O-Ring |
| 6 | 340-155 | 1 | Fitting-HYD, Straight |
| 6:1 | 237-79 | 1 | O-Ring |
| 6:2 | 237-151 | 1 | O-Ring |
| 7 | 340-98 | 1 | Fitting-HYD, 90 DEG |
| 7:1 | 237-79 | 1 | O-Ring |
| 7:2 | 237-30 | 1 | O-Ring |
| 8 | 104-3797 | 2 | Fitting-HYD, Straight |
| 8:1 | 237-146 | 1 | O-Ring |
| 8:2 | 340-65 | 1 | O-Ring |
| 9 | 100-4890 | 1 | Fitting-Check |
| 9:1 | 237-79 | 1 | O-Ring |
| 9:2 | 237-30 | 1 | O-Ring |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 340-9 | 2 | Fitting-Straight |
| 10:1 | 237-58 | 1 | O-Ring |
| 10:2 | 237-81 | 1 | O-Ring |
| 11 | 340-4 | 1 | Fitting-HYD, Straight |
| 11:1 | 237-30 | 1 | O-Ring |
| 11:2 | 237-79 | 1 | O-Ring |
| 13 | 105-9875 | 1 | 4-Wheel Drive Manifold ASM |
| 14 | 354-77 | 2 | Fitting-Quick |
| 14:1 | 237-78 | 1 | O-Ring |
| 15 | 354-79 | 2 | Cap-Dust |
| 16 | 353-990 | 1 | Plug |
| 16:1 | 237-78 | 1 | O-Ring |
| 17 | 94-2628 | 1 | Adapter-HYD |
| 17:1 | 237-79 | 1 | O-Ring |
| 17:2 | 237-30 | 1 | O-Ring |




# Filter Manifold Assembly No. 100-5558

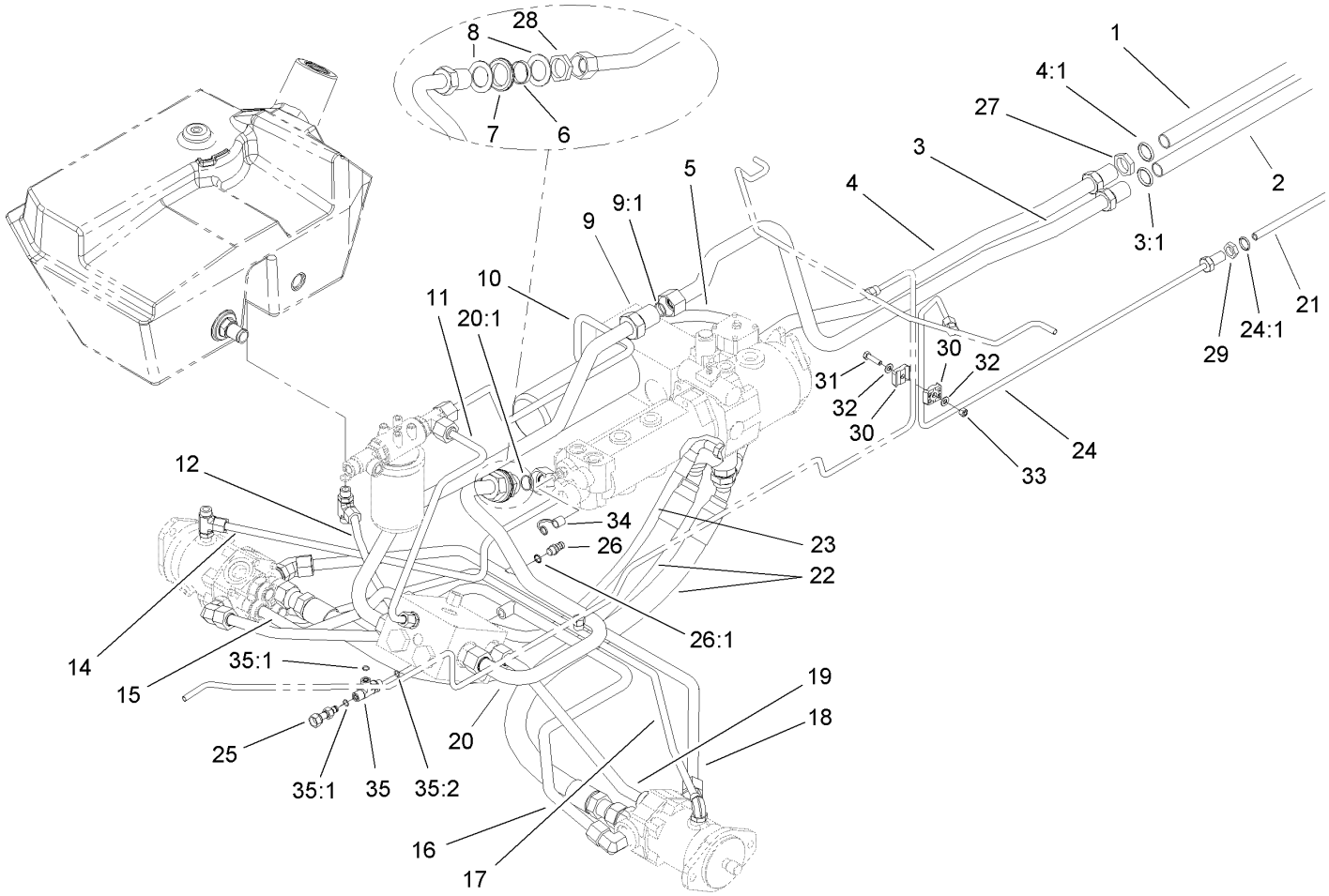
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❷1 | | 1 | Manifold |
| 2 | 104-4292 | 1 | Valve-Check |
| 3 | 104-4293 | 1 | Valve-Check |
| 4 | 104-4294 | 1 | Valve-Check |
| 5 | 353-990 | 3 | Plug |
| 5:1 | 237-78 | 1 | O-Ring |
| 6 | 353-989 | 3 | Plug-Hex, Hollow |
| 6:1 | 237-42 | 1 | O-Ring |
| 7 | 354-137 | 3 | Plug |
| 7:1 | 237-86 | 1 | O-Ring |
| 8 | 94-2621 | 1 | Element-Filter |
| ❷9 | | 1 | Nipple-Filter |
| 10 | 354-70 | 1 | Plug-Hex, Hollow |
| 10:1 | 237-80 | 1 | O-Ring |
| 11 | 104-4879 | 2 | Seal Kit |
| 12 | 99-5503 | 1 | Seal Kit |
| ❷13 | | 1 | Plug-Expander |




# 4 Wheel Drive Manifold Assembly No. 105-9875

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❷1 | | 1 | Manifold |
| 2 | 104-8603 | 1 | Valve-Solenoid |
| 2:1 | 99-5505 | 1 | Seal Kit |
| 3 | 104-8604 | 1 | Valve-Check |
| 3:1 | 99-5506 | 1 | Seal Kit |
| 5 | 104-8605 | 2 | Valve-Control |
| 5:1 | 99-5507 | 1 | Seal Kit |
| 7 | 105-9847 | 1 | Valve-Relief |
| 7:1 | 99-5503 | 1 | Seal Kit |
| 8 | 105-9848 | 1 | Valve-Reducing |
| 8:1 | 104-4266 | 1 | Seal Kit |
| 9 | 353-991 | 2 | Plug-Hex, Hollow |
| 9:1 | 237-156 | 1 | O-Ring |
| 10 | 354-137 | 3 | Plug |
| 10:1 | 237-86 | 1 | O-Ring |
| ❷11 | | 10 | Plug-Expander |
| ❷12 | | 10 | Plug-Expander |
| 13 | 353-989 | 6 | Plug-Hex, Hollow |
| 13:1 | 237-42 | 1 | O-Ring |
| 14 | 353-990 | 1 | Plug |
| 14:1 | 237-78 | 1 | O-Ring |
| 15 | 354-70 | 3 | Plug-Hex, Hollow |
| 15:1 | 237-80 | 1 | O-Ring |
| 16 | 110-3251 | 1 | Coil-Solenoid |

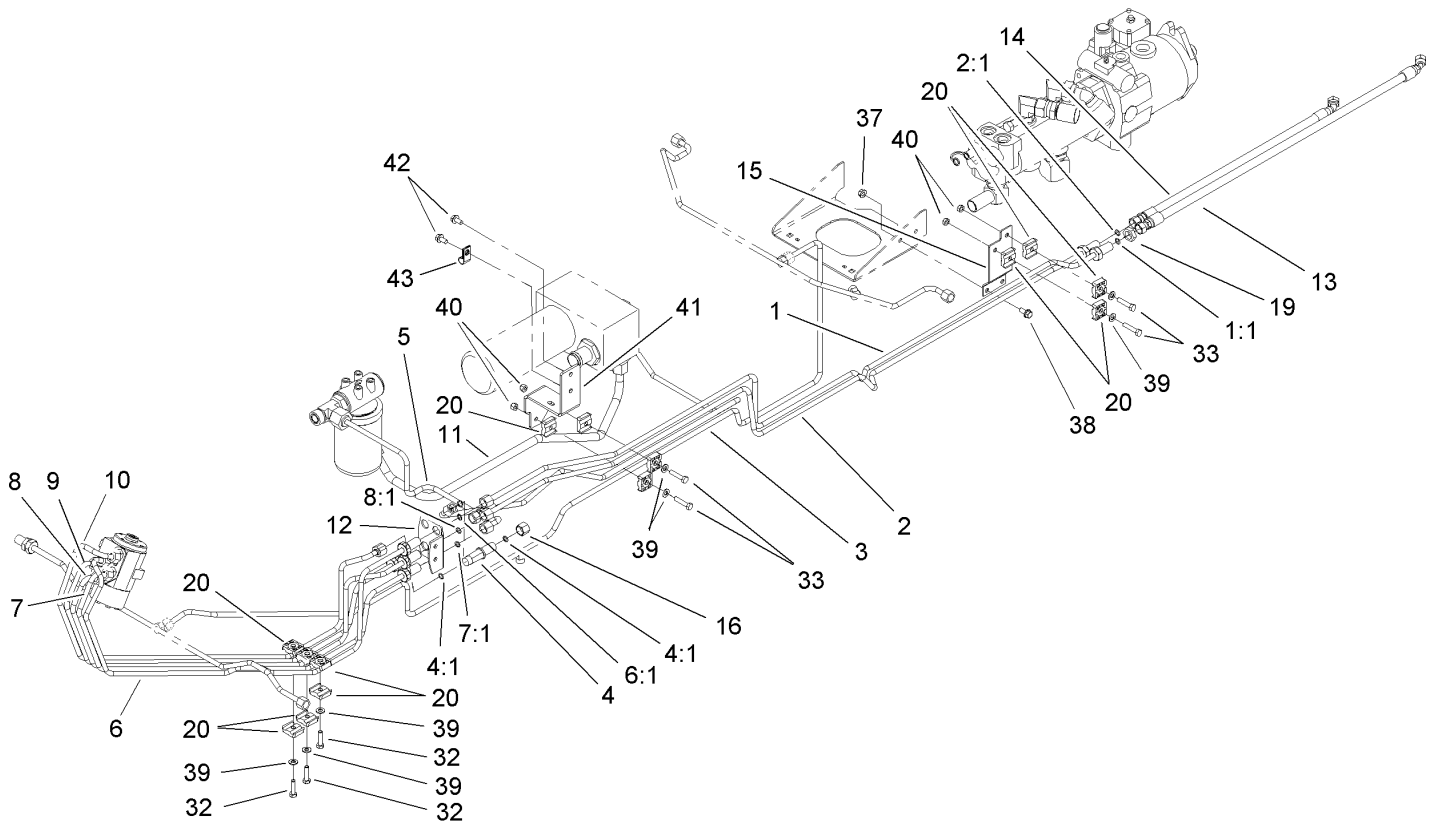
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 22 | 106-6766 | 1 | Plug-Orifice |




# Traction Hydraulic Line Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 92-7536 | 1 | Hose ASM |
| 2 | 105-9818 | 1 | Hose ASM |
| 3 | 104-5476 | 1 | Tube ASM |
| 3:1 | 340-65 | 1 | O-Ring |
| 4 | 104-5478 | 1 | Tube ASM |
| 4:1 | 340-65 | 1 | O-Ring |
| 5 | 105-3864 | 1 | Hose ASM |
| 6 | 69-8950 | 2 | Spacer |
| 7 | 240-2 | 2 | Grommet-Rubber |
| 8 | 69-8920 | 4 | Washer |
| 9 | 104-5472 | 1 | Tube ASM |
| 9:1 | 340-65 | 1 | O-Ring |
| 10 | 105-3861 | 1 | Tube ASM |
| 11 | 105-3915 | 1 | Tube ASM |
| 12 | 104-5489 | 1 | Tube ASM |
| 14 | 105-3866 | 1 | Tube ASM |
| 15 | 104-5470 | 1 | Tube ASM |
| 16 | 105-3984 | 1 | Tube ASM |
| 17 | 105-3865 | 1 | Tube ASM |
| 18 | 104-5462 | 1 | Tube ASM |
| 19 | 104-5468 | 1 | Tube ASM |
| 20 | 104-5473 | 1 | Tube ASM |
| 20:1 | 340-65 | 1 | O-Ring |
| 21 | 92-7534 | 1 | Hose ASM |

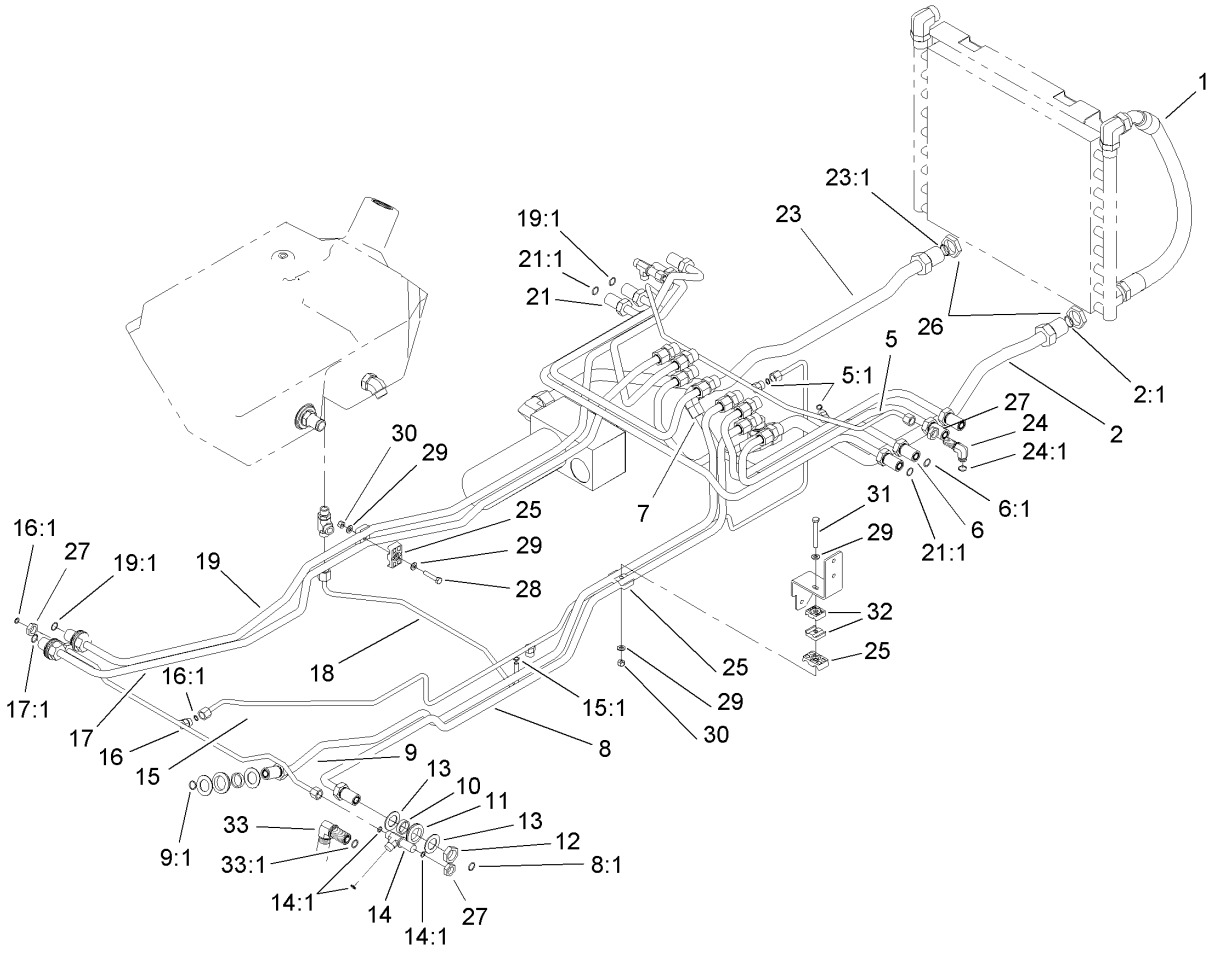
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 22 | 104-5464 | 2 | Hose ASM |
| 23 | 105-3985 | 1 | Hose ASM |
| 24 | 105-9863 | 1 | Tube-HYD |
| 24:1 | 237-22 | 1 | O-Ring |
| 25 | 86-5480 | 1 | Nipple-Test |
| 26 | 59-7410 | 1 | Tip-Nipple, Diagnostic |
| 26:1 | 237-42 | 1 | O-Ring |
| 27 | 340-126 | 2 | Nut-Bulkhead |
| 28 | 340-128 | 2 | Nut-Bulkhead |
| 29 | 340-70 | 1 | Nut-Lock |
| 30 | 56-7973 | 2 | Clamp-Tube |
| 31 | 322-6 | 1 | Screw-HH |
| 32 | 3256-23 | 2 | Washer-Flat |
| 33 | 3296-29 | 1 | Nut-Lock, NI |
| 34 | 354-79 | 2 | Cap-Dust |
| 35 | 340-86 | 1 | Fitting-Tee |
| 35:1 | 237-22 | 2 | O-Ring |
| 35:2 | 237-42 | 1 | O-Ring |




# Hydraulic Steering Line Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105-3871 | 1 | Tube ASM |
| 1:1 | 237-22 | 1 | O-Ring |
| 2 | 105-3870 | 1 | Tube ASM |
| 2:1 | 237-22 | 1 | O-Ring |
| 3 | 105-3887 | 1 | Tube ASM |
| 4 | 340-68 | 1 | Fitting-Tee, Bulkhead |
| 4:1 | 237-22 | 3 | O-Ring |
| 5 | 105-3886 | 1 | Tube ASM |
| 6 | 94-3060 | 1 | HYD Tube ASM |
| 6:1 | 237-22 | 1 | O-Ring |
| 7 | 94-3071 | 1 | HYD Tube ASM |
| 7:1 | 237-22 | 1 | O-Ring |
| 8 | 94-3059 | 1 | HYD Tube ASM |
| 8:1 | 237-22 | 1 | O-Ring |
| 9 | 94-3061 | 1 | HYD Tube ASM |
| ❶9:1 | 237-22 | 1 | O-Ring |
| 10 | 94-3062 | 1 | HYD Tube ASM |
| 11 | 104-5485 | 1 | Tube ASM |
| 12 | 92-7606-03 | 1 | Bracket-Bulkhead |
| 13 | 105-9817 | 1 | Hose ASM |
| 14 | 92-7539 | 1 | Hose ASM |
| 15 | 105-3873-03 | 1 | Bracket-Mount, Clamp |
| 16 | 340-117 | 1 | Cap |
| 19 | 340-70 | 7 | Nut-Lock |

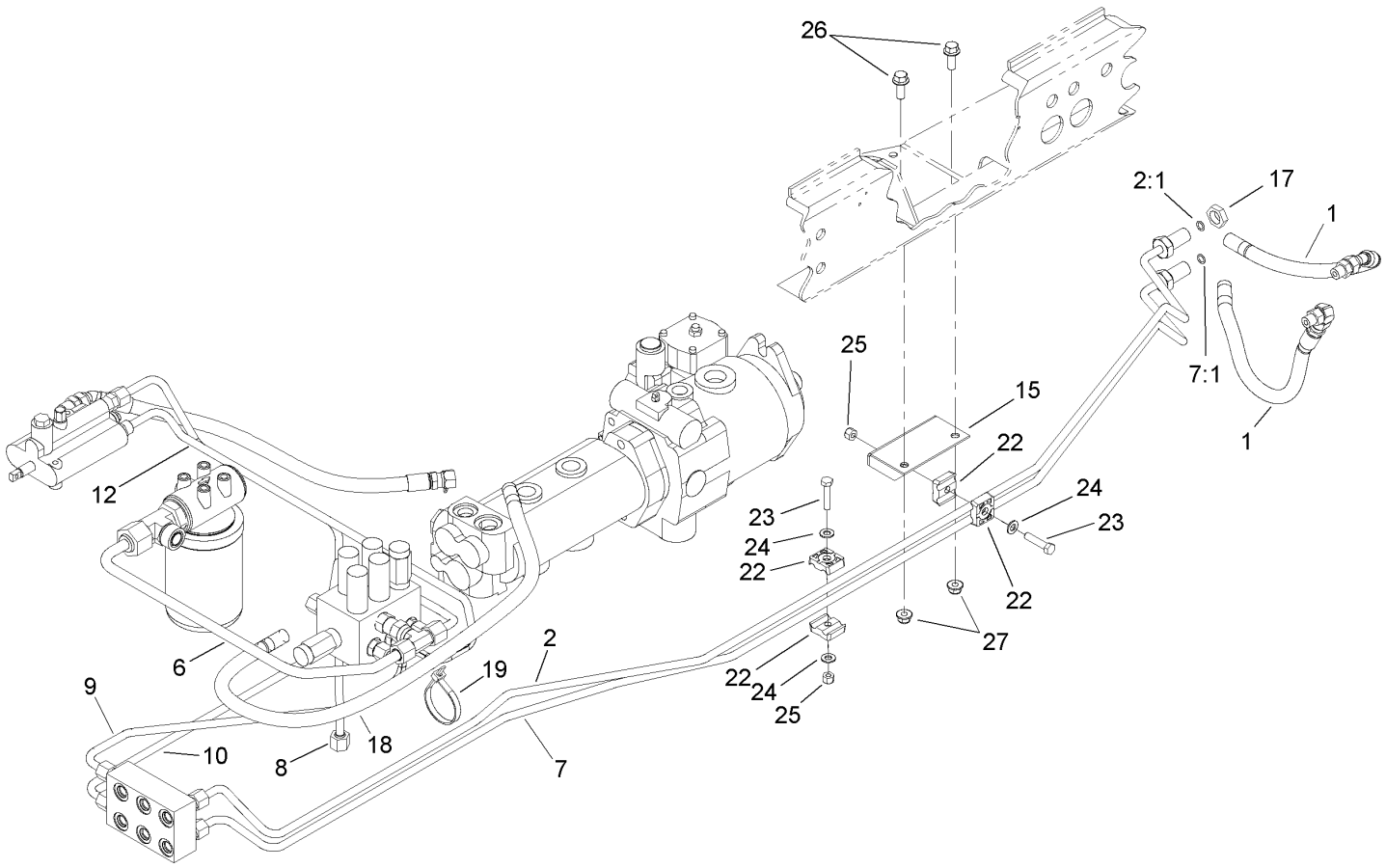
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 20 | 56-7973 | 14 | Clamp-Tube |
| 32 | 322-6 | 3 | Screw-HH |
| 33 | 322-7 | 4 | Screw-HH |
| 37 | 32128-20 | 2 | Nut-HF |
| 38 | 3234-5 | 2 | Screw-HHF |
| 39 | 3256-23 | 7 | Washer-Flat |
| 40 | 3296-29 | 4 | Nut-Lock, NI |
| 41 | 105-3993-03 | 1 | Bracket-Support, Tube |
| 42 | 32144-14 | 2 | Screw-HWHTF |
| 43 | 2412-138 | 1 | R-Clamp |




# Mow Block Hydraulic Line Assembly

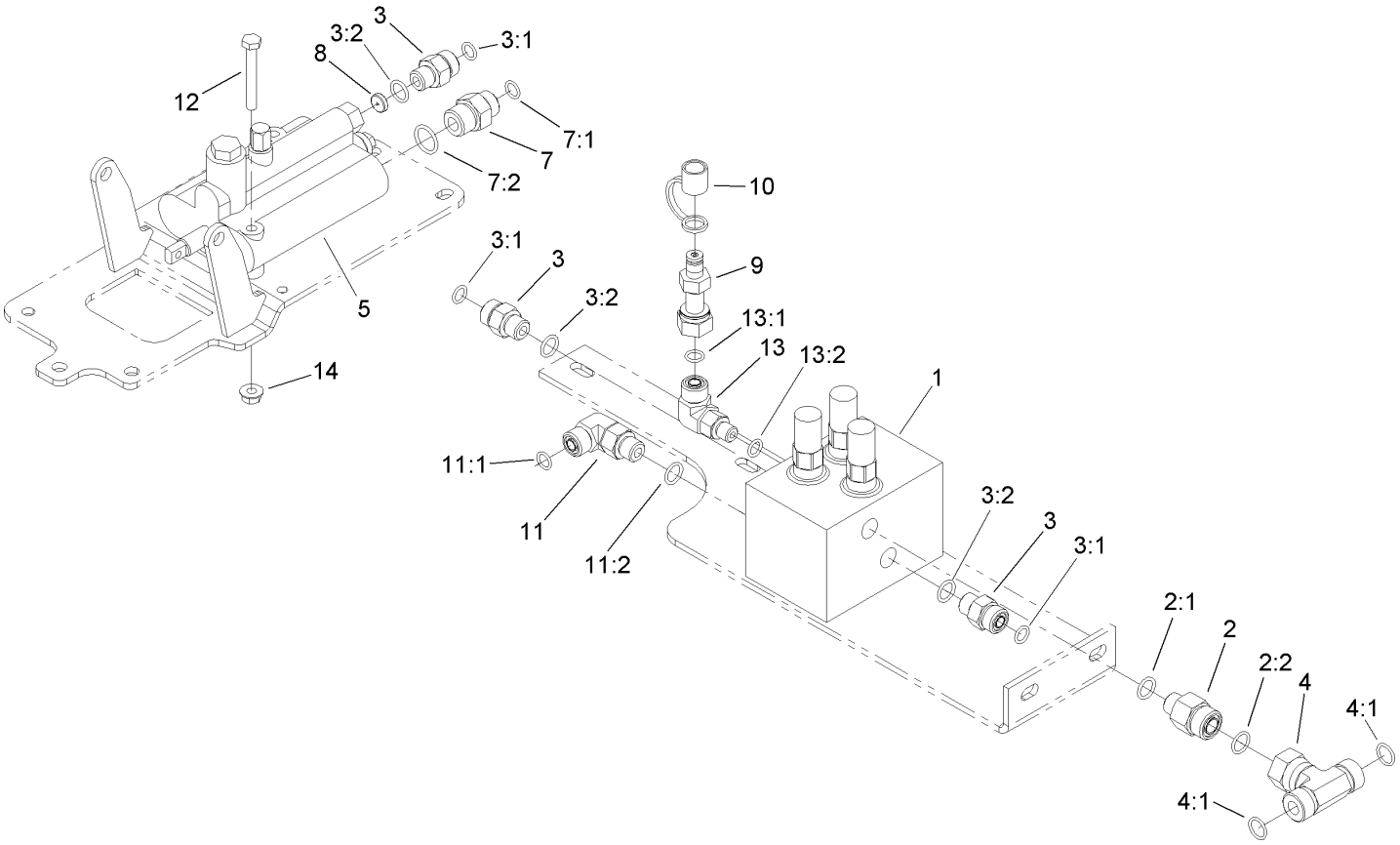
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-5483 | 2 | Hose ASM |
| 2 | 104-5488 | 1 | Tube ASM |
| 2:1 | 340-65 | 1 | O-Ring |
| 5 | 105-9862 | 1 | Tube ASM |
| 5:1 | 237-22 | 2 | O-Ring |
| 6 | 105-3895 | 1 | Tube ASM |
| 6:1 | 237-65 | 1 | O-Ring |
| 7 | 105-3885 | 1 | Tube ASM |
| 8 | 105-3893 | 1 | Tube ASM |
| 8:1 | 237-65 | 1 | O-Ring |
| 9 | 105-3894 | 1 | Tube ASM |
| 9:1 | 237-65 | 1 | O-Ring |
| 10 | 69-9000 | 9 | Spacer |
| 11 | 240-3 | 9 | Grommet-Rubber |
| 12 | 340-74 | 9 | Locknut-Bulkhead |
| 13 | 69-9010 | 18 | Washer |
| 14 | 340-68 | 1 | Fitting-Tee, Bulkhead |
| 14:1 | 237-22 | 3 | O-Ring |
| 15 | 105-3914 | 1 | Tube ASM |
| 15:1 | 237-22 | 1 | O-Ring |
| 16 | 108-6063 | 1 | Front Drain Tube ASM |
| 16:1 | 237-22 | 2 | O-Ring |
| 17 | 105-3902 | 1 | Tube ASM |
| 17:1 | 237-65 | 1 | O-Ring |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 18 | 105-3911 | 1 | Tube ASM |
| 19 | 105-3901 | 1 | Tube ASM |
| 19:1 | 237-65 | 2 | O-Ring |
| 21 | 105-3900 | 1 | Tube ASM |
| 21:1 | 237-65 | 2 | O-Ring |
| 23 | 104-5481 | 1 | Tube ASM |
| 23:1 | 340-65 | 1 | O-Ring |
| 24 | 340-154 | 2 | Union-Bulkhead |
| 24:1 | 237-22 | 2 | O-Ring |
| 25 | 56-7971 | 4 | Clamp-Tube |
| 26 | 340-128 | 2 | Nut-Bulkhead |
| 27 | 340-70 | 4 | Nut-Lock |
| 28 | 322-8 | 1 | Screw-HH |
| 29 | 3256-23 | 4 | Washer-Flat |
| 30 | 3296-29 | 2 | Nut-Lock, NI |
| 31 | 322-13 | 1 | Screw-HH |
| 32 | 56-7973 | 2 | Clamp-Tube |
| 33 | 340-72 | 1 | Fitting-Bulkhead, 90 DEG |
| 33:1 | 237-65 | 2 | O-Ring |



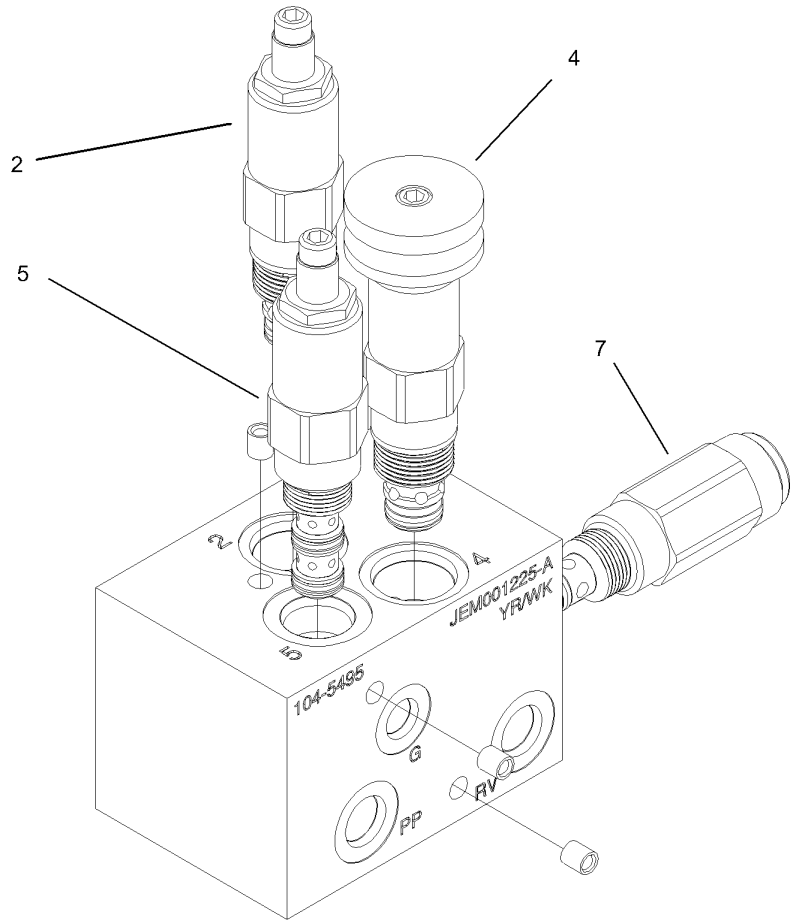

# Hydraulic Lift Line Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105-9238 | 4 | Hose ASM |
| 2 | 105-3988 | 1 | Tube ASM |
| 2:1 | 237-22 | 1 | O-Ring |
| 6 | 105-3860 | 1 | Tube ASM |
| 7 | 105-3989 | 1 | Tube ASM |
| 7:1 | 237-22 | 1 | O-Ring |
| 8 | 105-3928 | 1 | Tube ASM |
| 9 | 105-3916 | 1 | Tube ASM |
| 10 | 105-3917 | 1 | Tube ASM |
| 12 | 105-9249 | 1 | Tube ASM |
| 15 | 105-3990-03 | 1 | Bracket-Support, Tube |
| 17 | 340-70 | 2 | Nut-Lock |
| 18 | 105-9838 | 1 | Hose ASM |
| 19 | 3334-945 | 1 | Tie-Cable |
| 22 | 56-7973 | 4 | Clamp-Tube |
| 23 | 322-7 | 2 | Screw-HH |
| 24 | 3256-23 | 3 | Washer-Flat |
| 25 | 3296-29 | 2 | Nut-Lock, NI |
| 26 | 3234-11 | 1 | Screw-HHF |
| 27 | 104-8301 | 1 | Nut-Flange, NI |



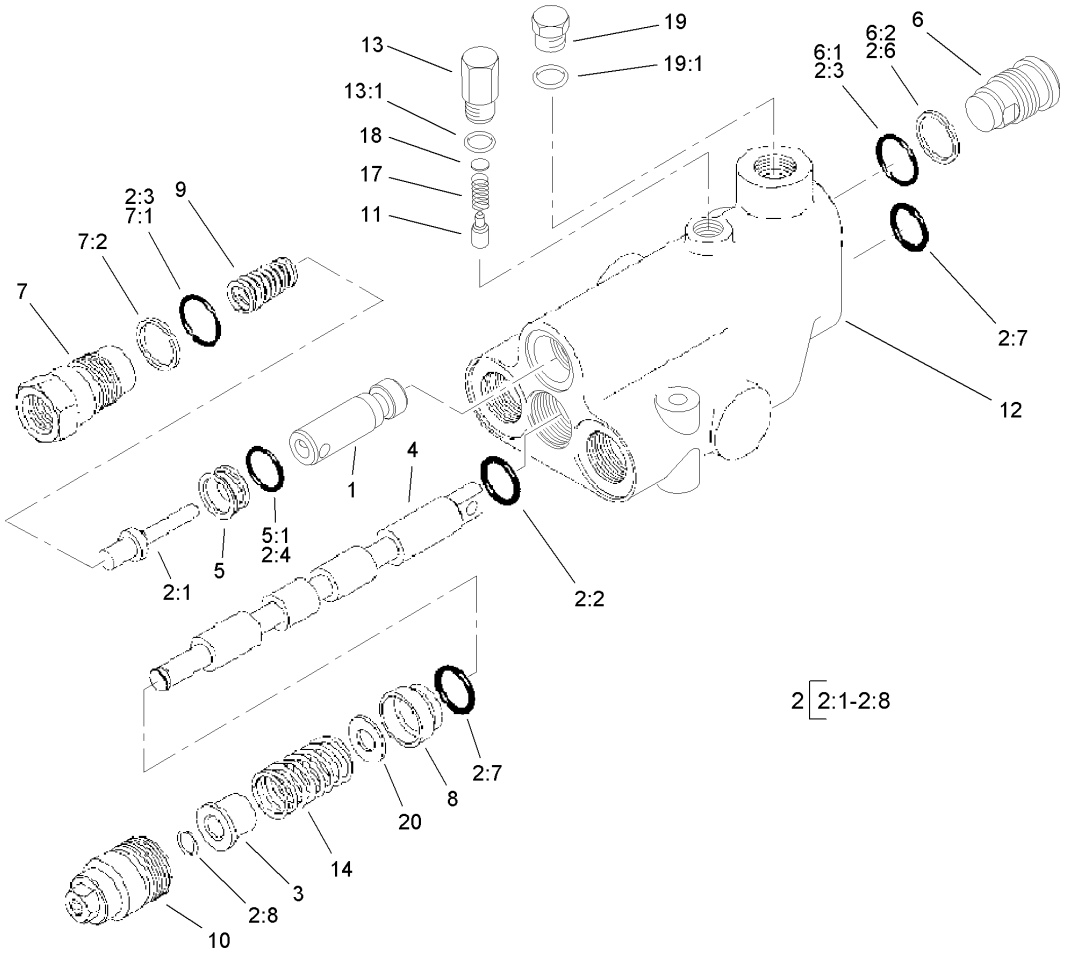

# Lift Valve and Counter Balance Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-5495 | 1 | Manifold ASM |
| 2 | 340-5 | 1 | Fitting-Straight |
| 2:1 | 237-42 | 1 | O-Ring |
| 2:2 | 237-30 | 1 | O-Ring |
| 3 | 340-2 | 3 | Fitting-HYD, Straight |
| 3:1 | 237-22 | 1 | O-Ring |
| 3:2 | 237-42 | 1 | O-Ring |
| 4 | 93-6810 | 1 | Fitting-Tee |
| 4:1 | 237-30 | 2 | O-Ring |
| 5 | 104-5494 | 1 | Valve-Spool, Single |
| 7 | 340-3 | 2 | Adapter |
| 7:1 | 237-22 | 1 | O-Ring |
| 7:2 | 237-79 | 1 | O-Ring |
| 8 | 84-6402 | 1 | Disc-Orifice |
| 9 | 86-5480 | 1 | Nipple-Test |
| 10 | 354-79 | 1 | Cap-Dust |
| 11 | 340-77 | 1 | Fitting-HYD, 90 DEG |
| 11:1 | 237-22 | 1 | O-Ring |
| 11:2 | 237-42 | 1 | O-Ring |
| 12 | 321-11 | 2 | Screw-HH |
| 13 | 340-97 | 1 | Fitting-HYD, 90 DEG |
| 13:1 | 237-22 | 1 | O-Ring |
| 13:2 | 237-78 | 1 | O-Ring |
| 14 | 32128-33 | 2 | Nut-HF |




# Manifold Assembly No. 104-5495

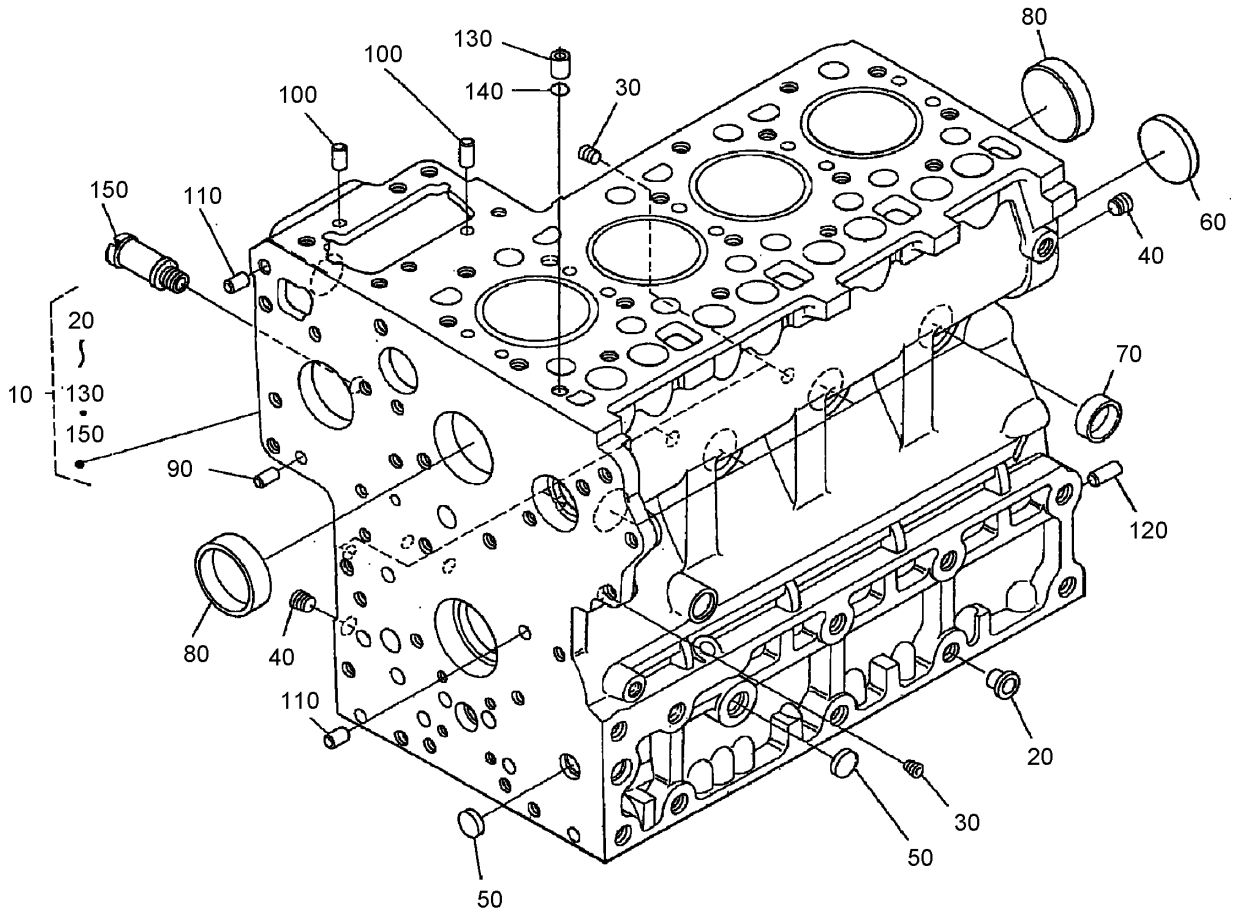
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 2 | 105-9161 | 1 | Relief-Operated, Pilot |
| ❶2:1 | 105-9151 | 1 | Seal Kit |
| 4 | 105-9162 | 1 | Relief-Operated, Pilot |
| ❶4:1 | 105-9151 | 1 | Seal Kit |
| 5 | 105-9163 | 1 | Valve-Pilot Sequence, EXT |
| ❶5:1 | 105-9164 | 1 | Seal Kit |
| 7 | 105-9844 | 1 | Valve-Relief |
| ❶7:2 | 105-9156 | 1 | Seal Kit |




# Single Spool Valve Assembly No. 104-5494

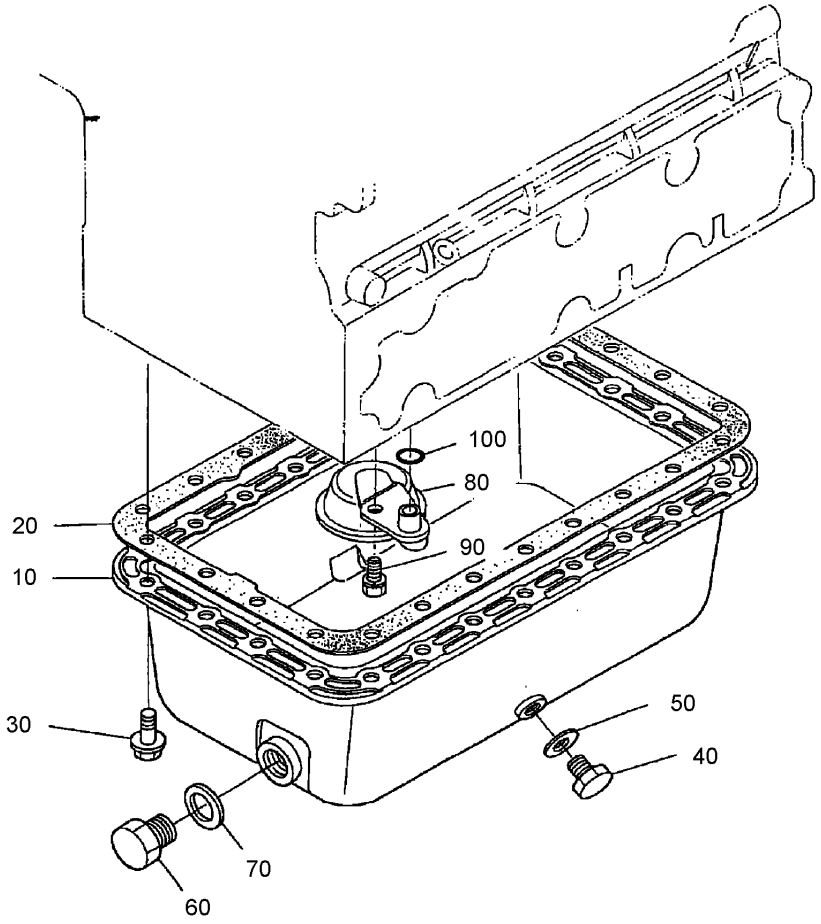
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 84-6420 | 1 | Plunger |
| 2 | 99-3589 | 1 | Seal Kit |
| 2:1 | 58-6290 | 2 | Poppet |
| 2:2 | 58-6320 | 1 | Wiper |
| 2:3 | 60-5720 | 2 | O-Ring |
| 2:4 | 58-6340 | 2 | O-Ring |
| ❶2:5 | 93-6314 | 1 | O-Ring |
| 2:6 | 58-6370 | 2 | Washer |
| 2:7 | 58-6450 | 2 | O-Ring |
| 2:8 | 58-6460 | 1 | Ring-Retaining |
| 3 | 58-6310 | 1 | Spacer |
| ❷4 | | 1 | Spool |
| 5 | 58-6330 | 1 | Seat |
| 5:1 | 58-6340 | 1 | O-Ring |
| 6 | 58-6350 | 1 | Plug |
| 6:1 | 60-5720 | 1 | O-Ring |
| 6:2 | 58-6370 | 1 | Washer |
| 7 | 69-1800 | 1 | Plug ASM |
| 7:1 | 60-5720 | 1 | O-Ring |
| 7:2 | 58-6370 | 1 | Washer |
| 8 | 58-6400 | 1 | Bushing |
| 9 | 69-1810 | 1 | Spring |
| 10 | 58-6420 | 1 | Cap |
| 11 | 58-6770 | 1 | Plunger |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❷12 | | 1 | Body |
| 13 | 58-6780 | 1 | Plug |
| 13:1 | 58-6790 | 1 | O-Ring |
| 14 | 58-6730 | 1 | Spring |
| 17 | 58-6760 | 1 | Spring |
| 18 | 60-6450 | 1 | Disc |
| 19 | 353-508 | 1 | Plug |
| 19:1 | 237-42 | 1 | O-Ring |
| 20 | 65-2770 | 1 | Washer |



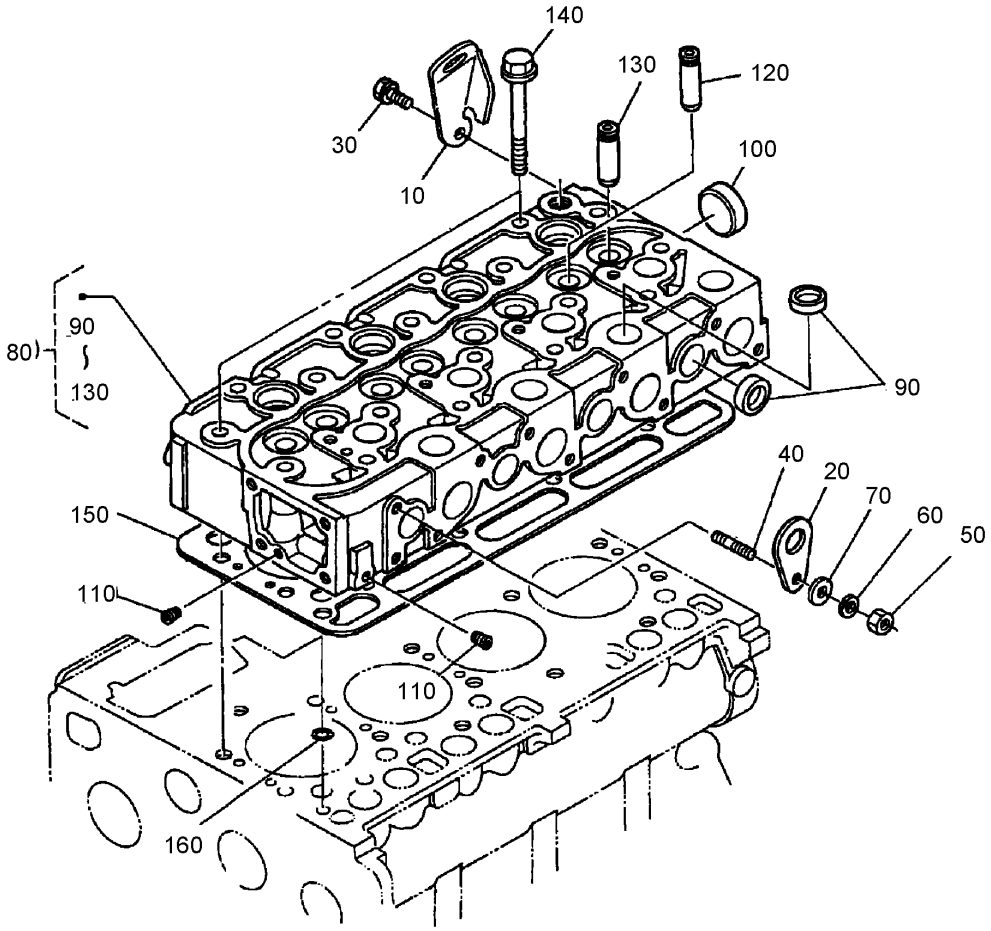

# Crankcase Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 108-7051 | 1 | Crankcase |
| 20 | 98-7486 | 2 | Plug |
| 30 | 98-7487 | 6 | Plug |
| 40 | 107-0107 | 2 | Plug |
| 50 | 98-7489 | 3 | Plug |
| 60 | 98-9668 | 1 | Plug-Expansion |
| 70 | 98-7500 | 6 | Cap-Sealing |
| 80 | 98-7501 | 2 | Cap-Sealing |
| 90 | 98-7502 | 2 | Pin-Straight |
| 100 | 98-7503 | 2 | Pin-Straight |
| 110 | 98-7504 | 2 | Pin-Straight |
| 120 | 98-7505 | 1 | Pin-Straight |
| 130 | 98-7506 | 1 | Pin-Pipe |
| 140 | 98-7509 | 1 | O-Ring |
| 150 | 100-9153 | 1 | Pipe-Return, Water |



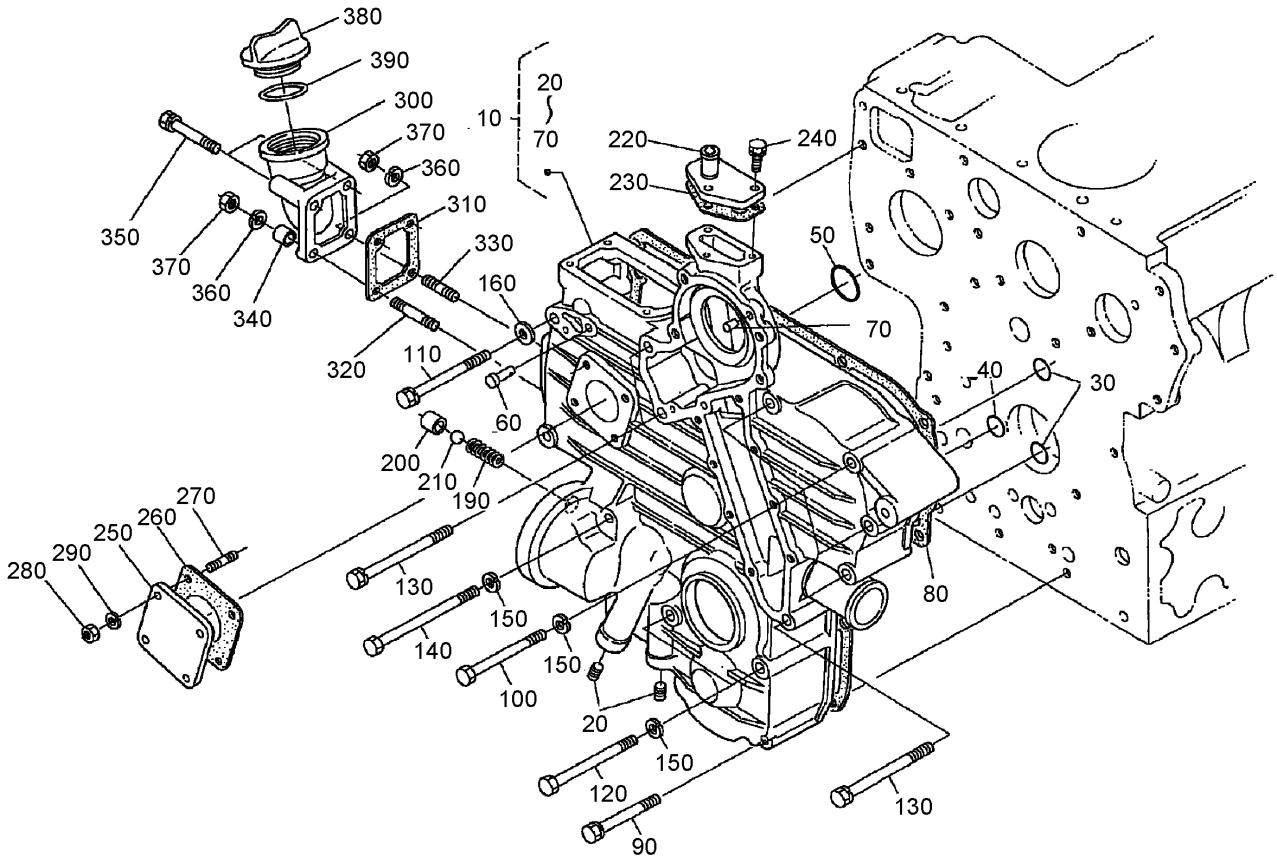

# Oil Pan Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7520 | 1 | Pan-Oil |
| 20 | 108-7053 | 1 | Gasket-Pan, Oil |
| 30 | 98-7522 | 24 | Bolt-Flange |
| 40 | 98-9386 | 1 | Plug |
| 50 | 98-7524 | 1 | Gasket |
| 60 | 98-7529 | 1 | Plug-Drain |
| 70 | 98-7528 | 1 | O-Ring |
| 80 | 98-7525 | 1 | Filter-Oil |
| 90 | 98-7526 | 1 | Bolt |
| 100 | 108-7054 | 1 | O-Ring |




# Cylinder Head Assembly

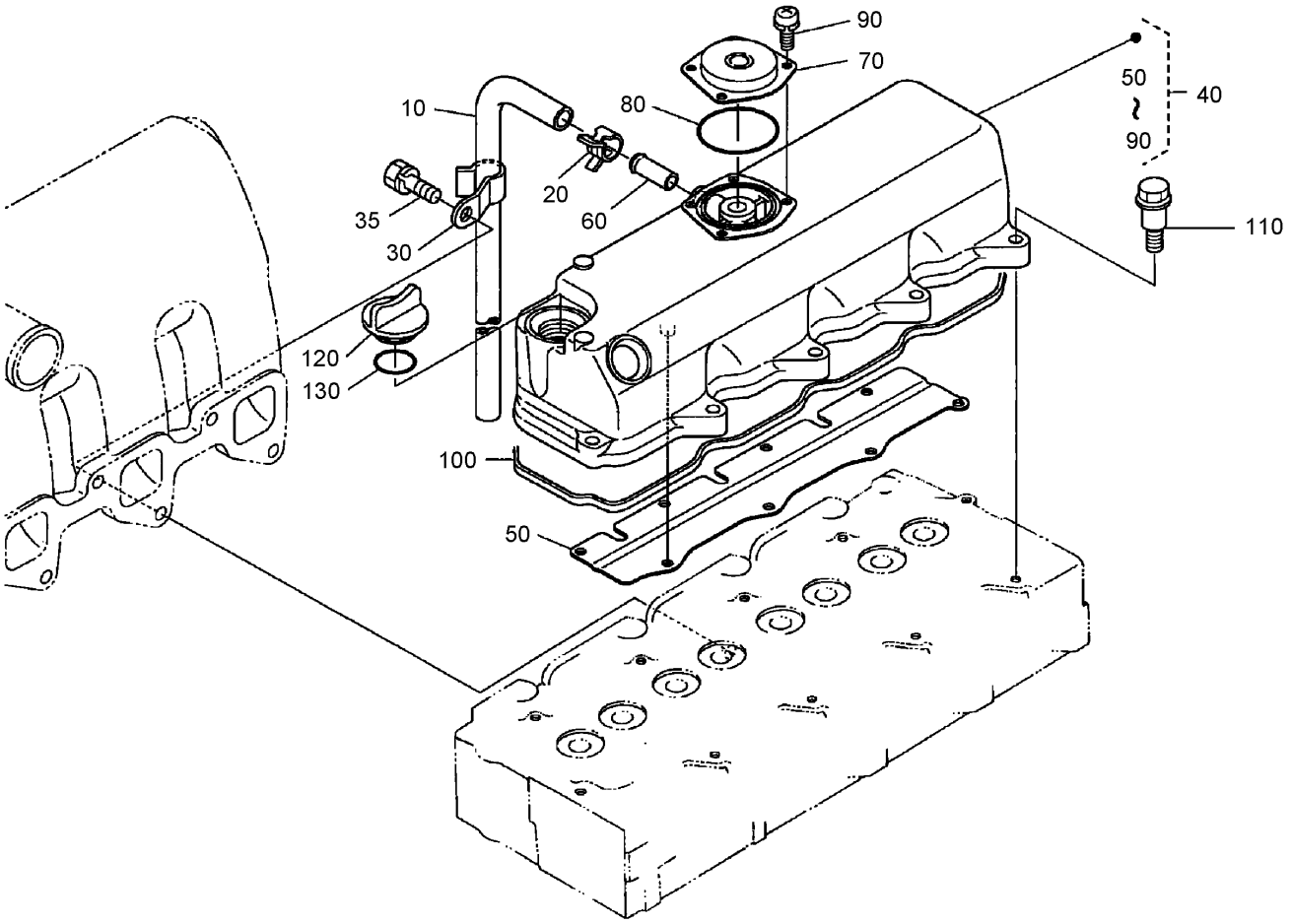
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7530 | 1 | Hook-Engine |
| 20 | 98-7531 | 1 | Hook-Engine |
| 30 | 98-7526 | 1 | Bolt |
| 40 | 98-7533 | 2 | *obs* Stud |
| 50 | 100-1559 | 1 | Nut-Manifold, Exhaust |
| 60 | 105-2893 | 1 | Washer-Spring |
| 70 | 98-7536 | 1 | Washer-Plain |
| 80 | 108-7055 | 1 | Head-Cylinder |
| 90 | 98-7538 | 12 | Cap-Sealing |
| 100 | 98-7539 | 1 | Cap-Sealing |
| 110 | 98-7540 | 2 | Plug |
| 120 | 98-7541 | 4 | Guide-Valve, Intake |
| 130 | 98-7542 | 4 | Guide-Valve, Exhaust |
| 140 | 98-7543 | 18 | Bolt-Head, Cylinder |
| 150 | 100-9160 | 1 | Gasket-Head, Cylinder |
| 160 | 98-7509 | 1 | O-Ring |




# Gear Case Assembly

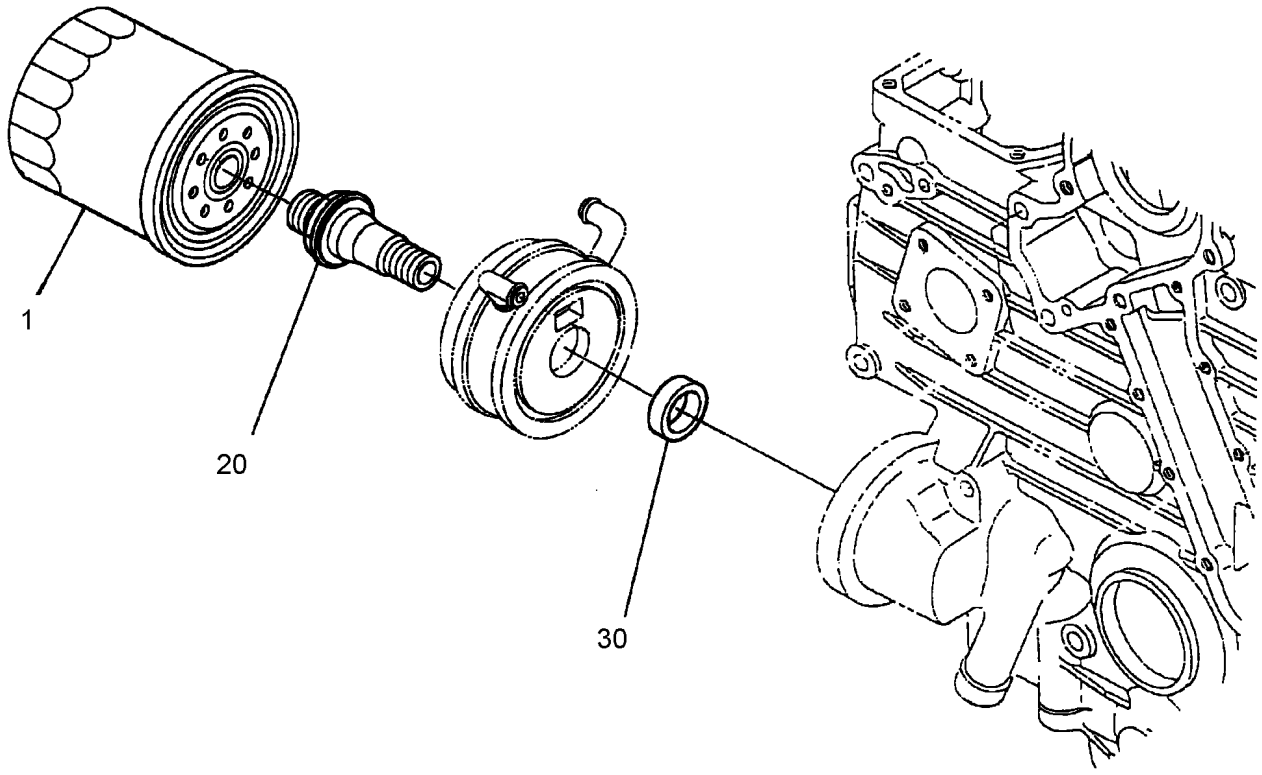
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9161 | 1 | Gearcase ASM |
| 20 | 107-0108 | 2 | Plug |
| 30 | 107-0104 | 2 | O-Ring |
| 40 | 107-0105 | 1 | O-Ring |
| 50 | 107-0106 | 1 | O-Ring |
| 60 | 98-7550 | 1 | Pin-Spring, Start |
| 70 | 98-7504 | 2 | Pin-Straight |
| 80 | 98-7552 | 1 | Packing-Case, Gear |
| 90 | 98-7553 | 2 | Bolt |
| 100 | 99-8336 | 5 | Bolt |
| 110 | 98-7555 | 1 | Bolt |
| 120 | 98-7556 | 2 | Bolt |
| 130 | 98-7557 | 3 | Bolt |
| 140 | 98-7558 | 2 | Bolt |
| 150 | 105-2893 | 9 | Washer-Spring |
| 160 | 98-7536 | 1 | Washer-Plain |
| 190 | 98-7563 | 1 | Spring |
| 200 | 98-7564 | 1 | Seat-Valve |
| 210 | 98-7565 | 1 | Ball |
| 220 | 98-7566 | 1 | Flange-Return, Water |
| 230 | 98-7567 | 1 | Gasket |
| 240 | 98-7568 | 3 | Bolt |
| 250 | 98-7569 | 1 | Cover |
| 260 | 98-7570 | 1 | Gasket-Meter, Hour |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 270 | 98-7571 | 4 | Stud |
| 280 | 98-7572 | 4 | Nut |
| 290 | 98-7699 | 4 | Washer-Spring |
| 300 | 100-9162 | 1 | Flange-Filter, Oil |
| 310 | 100-9163 | 1 | Gasket |
| 320 | 98-7571 | 1 | Stud |
| 330 | 100-9164 | 1 | Stud |
| 340 | 100-9165 | 1 | Collar |
| 350 | 107-9073 | 2 | Bolt |
| 360 | 98-7699 | 2 | Washer-Spring |
| 370 | 98-7572 | 2 | Nut |
| 380 | 98-7429 | 1 | Plug-Filter, Oil |
| 390 | 108-7064 | 1 | O-Ring |



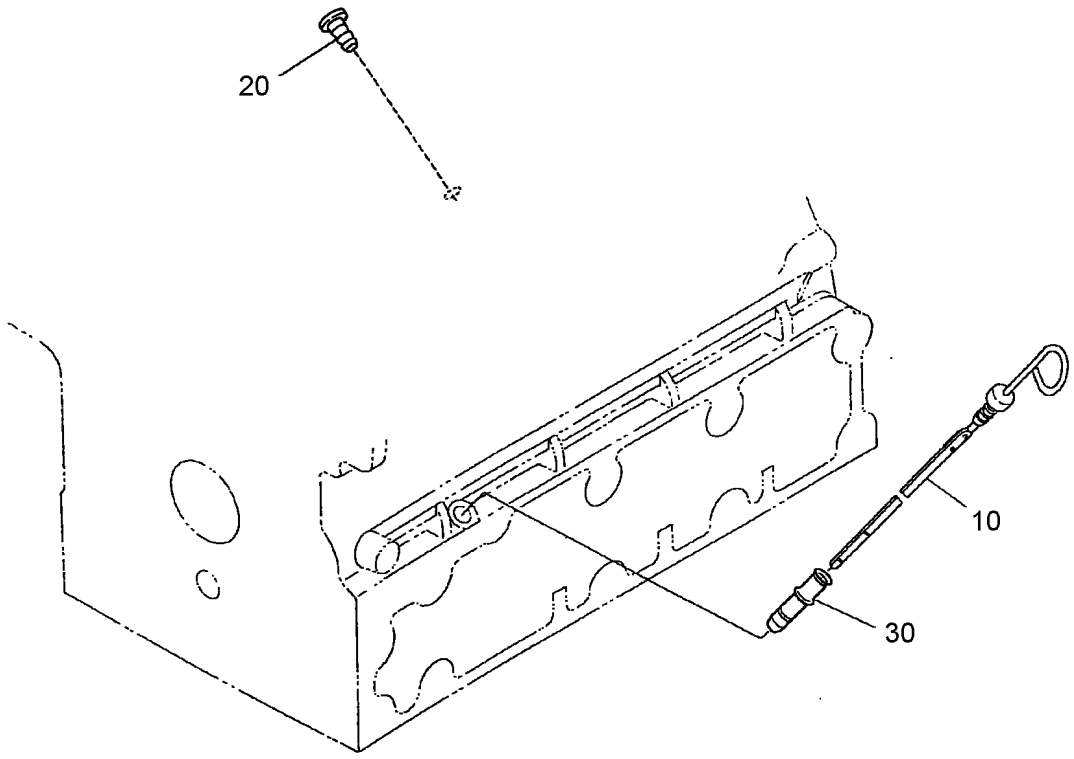

# Head Cover Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 108-7056 | 1 | Tube-Breather |
| 20 | 108-2859 | 1 | Clamp-Hose |
| 30 | 108-7057 | 1 | Clamp-Tube, Breather |
| 35 | 98-7610 | 1 | Bolt |
| 40 | 108-7058 | 1 | Cylinder Head Cover ASM |
| 50 | 108-7059 | 1 | Shield-Breather |
| 60 | 98-7766 | 1 | Pipe-Return, Water |
| 70 | 108-7060 | 1 | Cover-Breather |
| 80 | 108-7061 | 1 | O Ring-Breather |
| 90 | 98-9364 | 4 | Screw (With Washer) |
| 100 | 108-7062 | 1 | Gasket-Cover, Head |
| 110 | 108-7063 | 10 | Bolt |
| 120 | 98-7429 | 1 | Plug-Filter, Oil |
| 130 | 108-7064 | 1 | O-Ring |



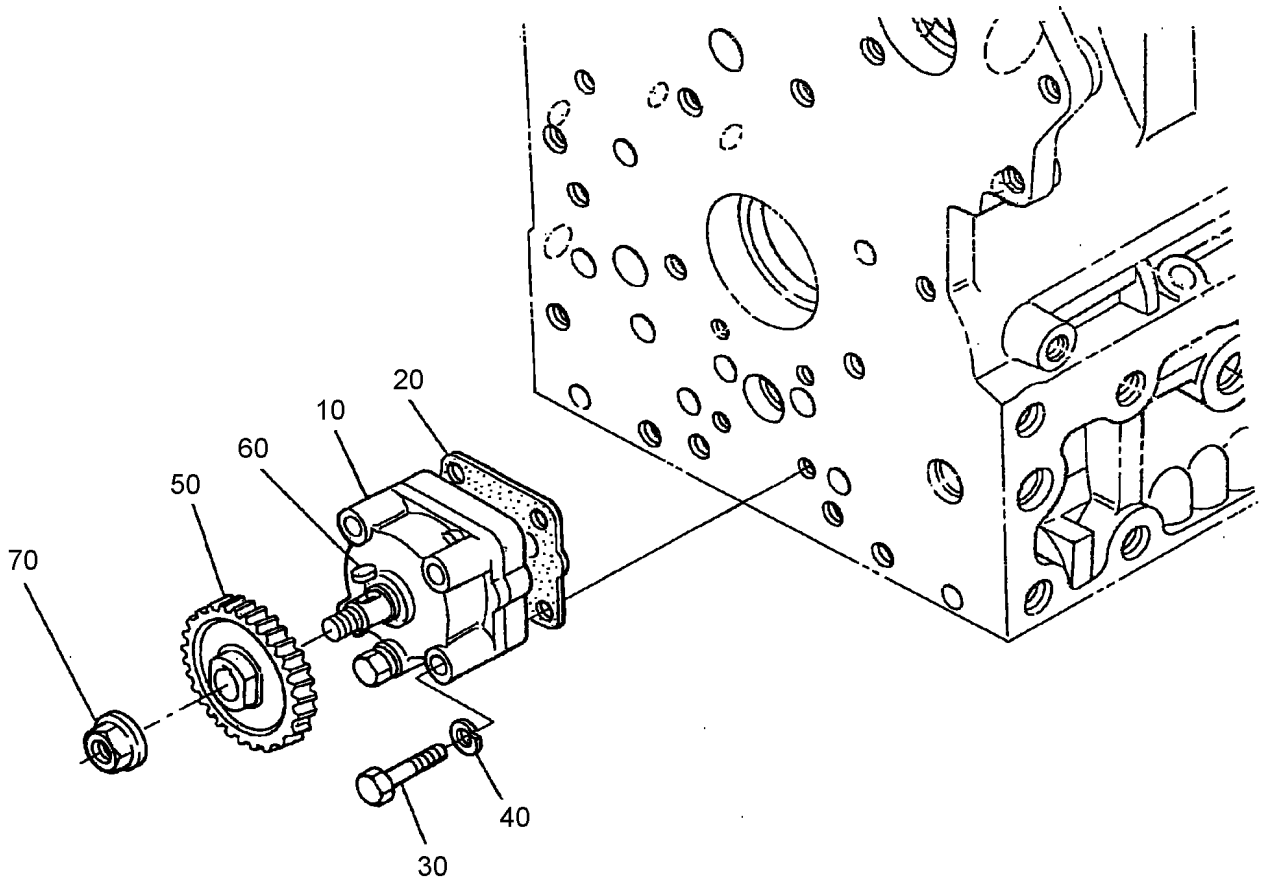

# Oil Filter Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-5169 | 1 | Filter-Oil |
| 20 | 100-9166 | 1 | Connector |
| 30 | 100-9167 | 1 | Collar |



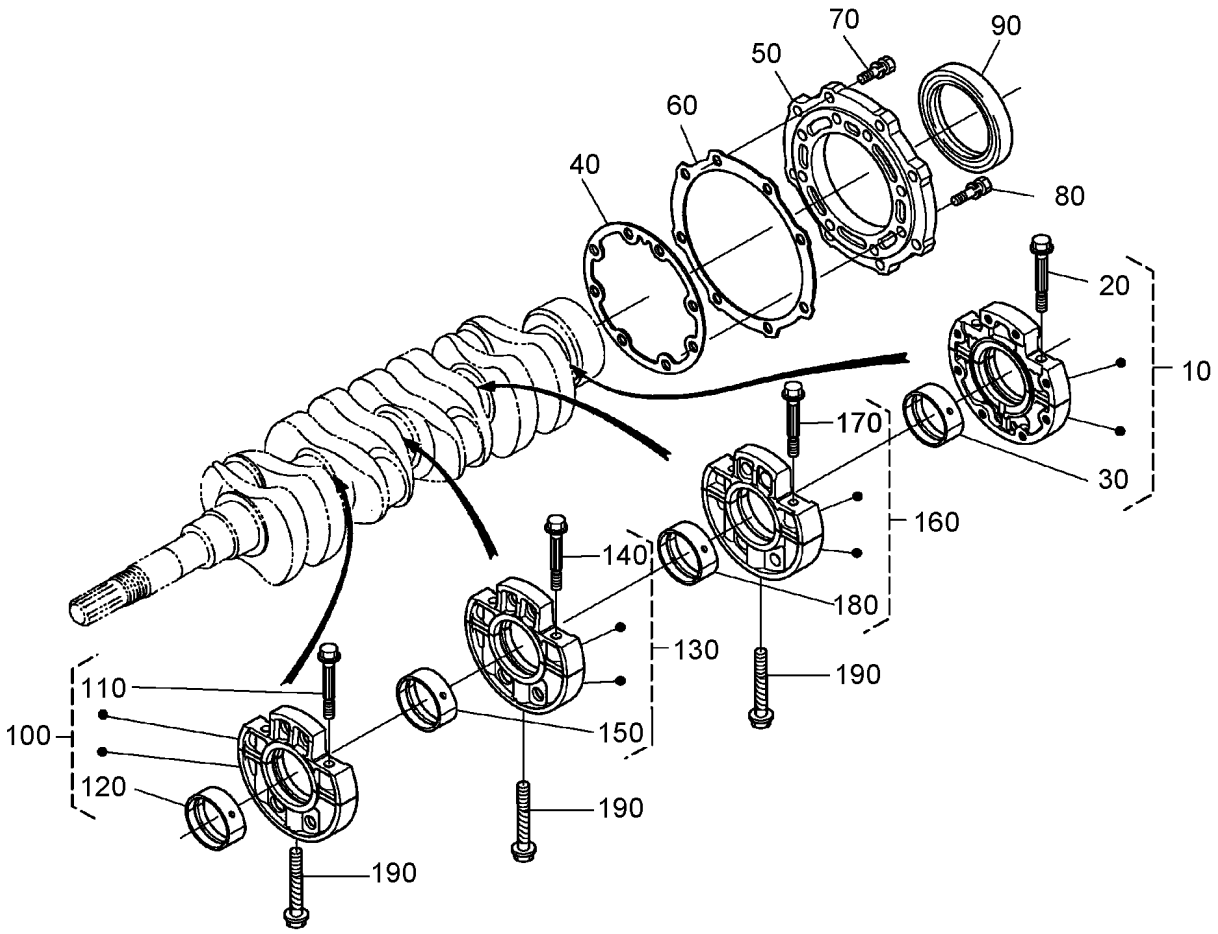

# Dipstick and Guide Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 105-4579 | 1 | Gauge-Oil |
| 20 | 100-9169 | 1 | Plug-Gauge, Oil |
| 30 | 105-4580 | 1 | Guide |




# Oil Pump Assembly

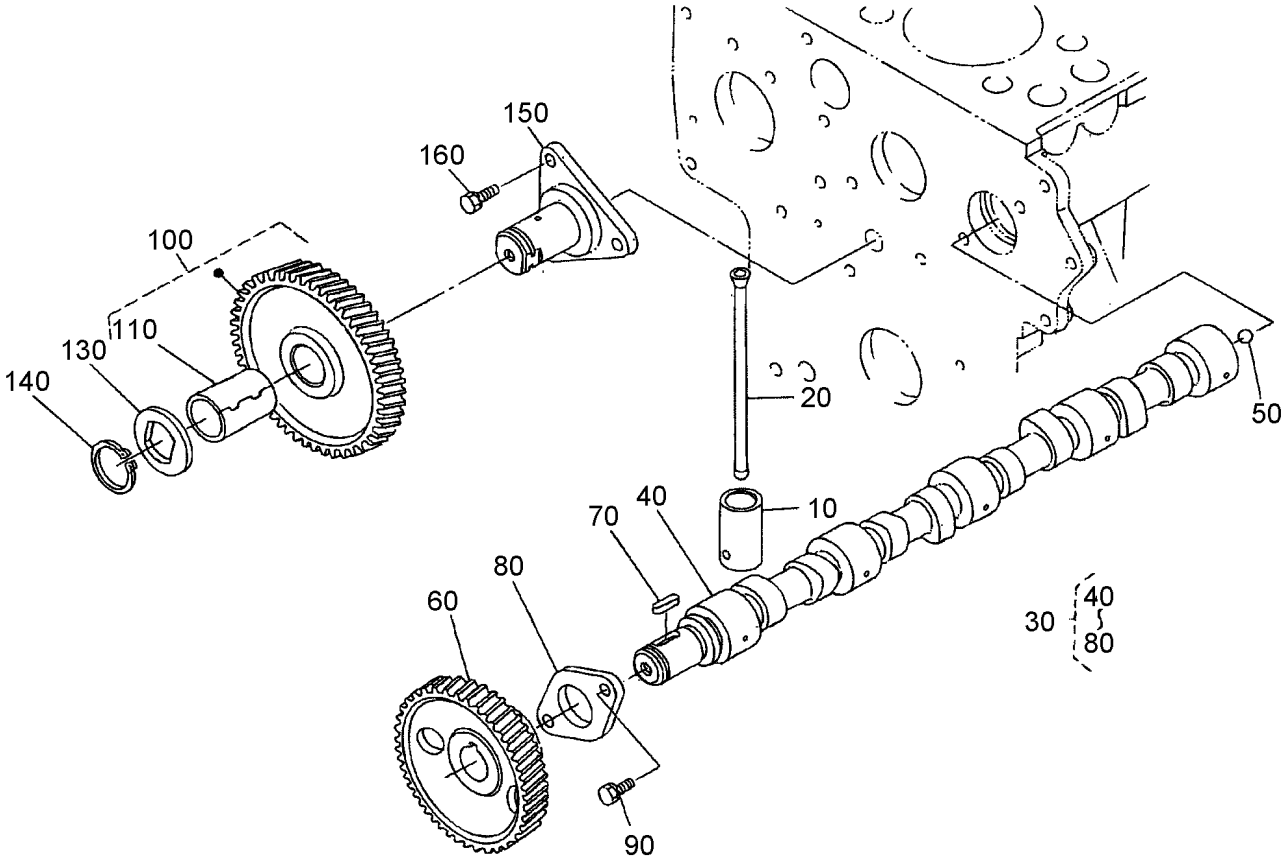
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9170 | 1 | Oil Pump ASM |
| 20 | 98-7513 | 1 | Gasket-Pump, Oil |
| 30 | 98-7514 | 4 | Bolt |
| 40 | 98-7699 | 4 | Washer-Spring |
| 50 | 98-7516 | 1 | Gear-Drive, Oil Pump |
| 60 | 98-7517 | 1 | Key-Feather |
| 70 | 98-7518 | 1 | Nut-Flange |




# Main Bearing Case

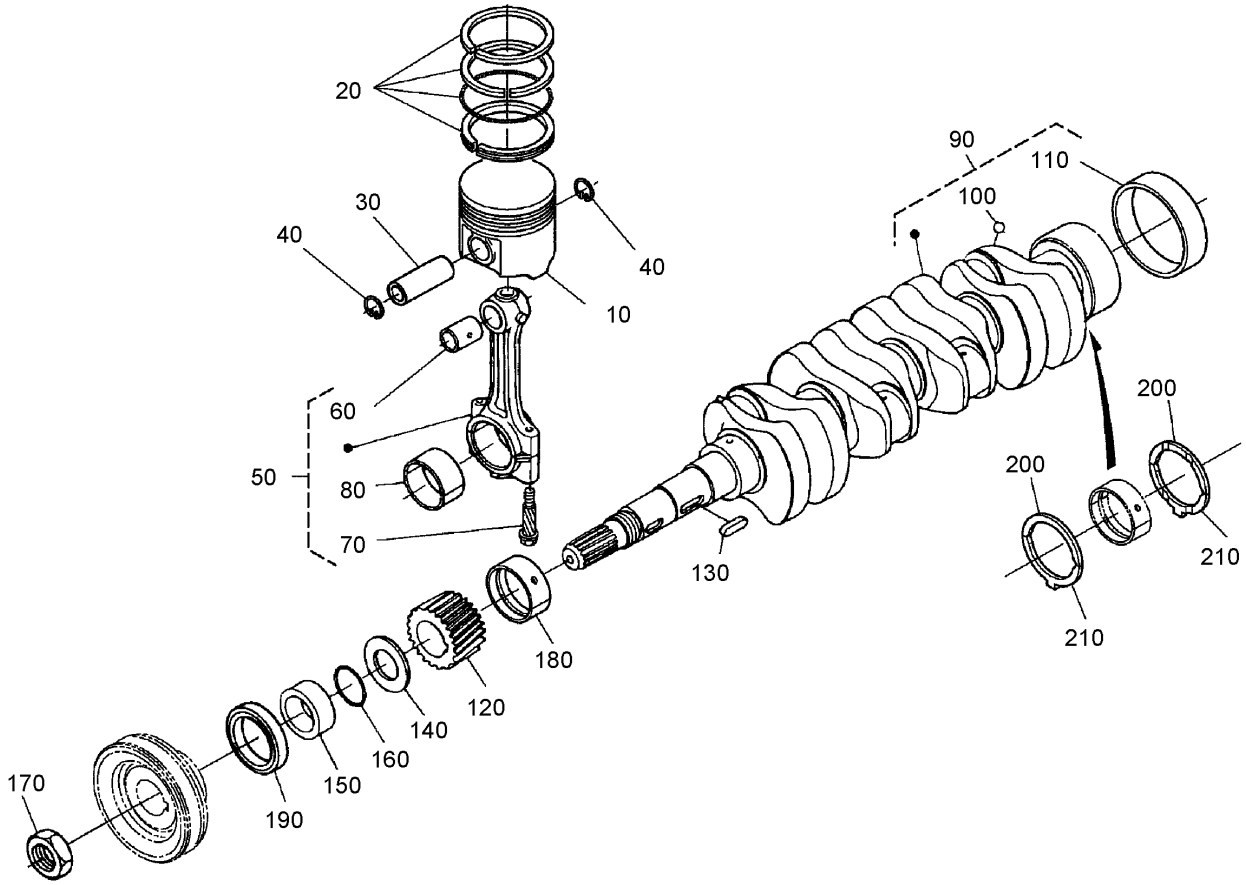
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 108-7065 | 1 | Wheel Bearing Case ASM |
| 20 | 108-7066 | 2 | Bolt-Case, Bearing |
| 30 | 108-7069 | 1 | Metal-Crankshaft (-0.40Mm) |
| 30 | 108-7068 | 1 | Metal-Crankshaft (-0.20Mm) |
| 30 | 108-7067 | 1 | Metal-Crankshaft (STD) |
| 40 | 108-7070 | 1 | Gasket-Case, Bearing |
| 50 | 108-7071 | 1 | Cover-Case, Bearing |
| 60 | 98-7437 | 1 | Gasket-Case Cover, Bearing |
| 70 | 98-7438 | 8 | Bolt |
| 80 | 98-7439 | 8 | Bolt |
| 90 | 108-7072 | 1 | Seal-Oil |
| 100 | 108-7073 | 1 | Main Bearing Case ASM |
| 110 | 108-7066 | 2 | Bolt-Case, Bearing |
| 120 | 108-7069 | 1 | Metal-Crankshaft (-0.40Mm) |
| 120 | 108-7068 | 1 | Metal-Crankshaft (-0.20Mm) |
| 120 | 108-7067 | 1 | Metal-Crankshaft (STD) |
| 130 | 108-7074 | 1 | Main Bearing Case ASM |
| 140 | 108-7066 | 2 | Bolt-Case, Bearing |
| 150 | 108-7067 | 1 | Metal-Crankshaft (STD) |
| 150 | 108-7068 | 1 | Metal-Crankshaft (-0.20Mm) |
| 150 | 108-7069 | 1 | Metal-Crankshaft (-0.40Mm) |
| 160 | 108-7097 | 1 | Main Bearing Case ASM |
| 170 | 108-7066 | 2 | Bolt-Case, Bearing |
| 180 | 108-7069 | 1 | Metal-Crankshaft (-0.40Mm) |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 180 | 108-7068 | 1 | Metal-Crankshaft (-0.20Mm) |
| 180 | 108-7067 | 1 | Metal-Crankshaft (STD) |
| 190 | 98-7444 | 3 | Bolt-Case, Bearing |




# Camshaft and Idler Gear Shaft Assembly

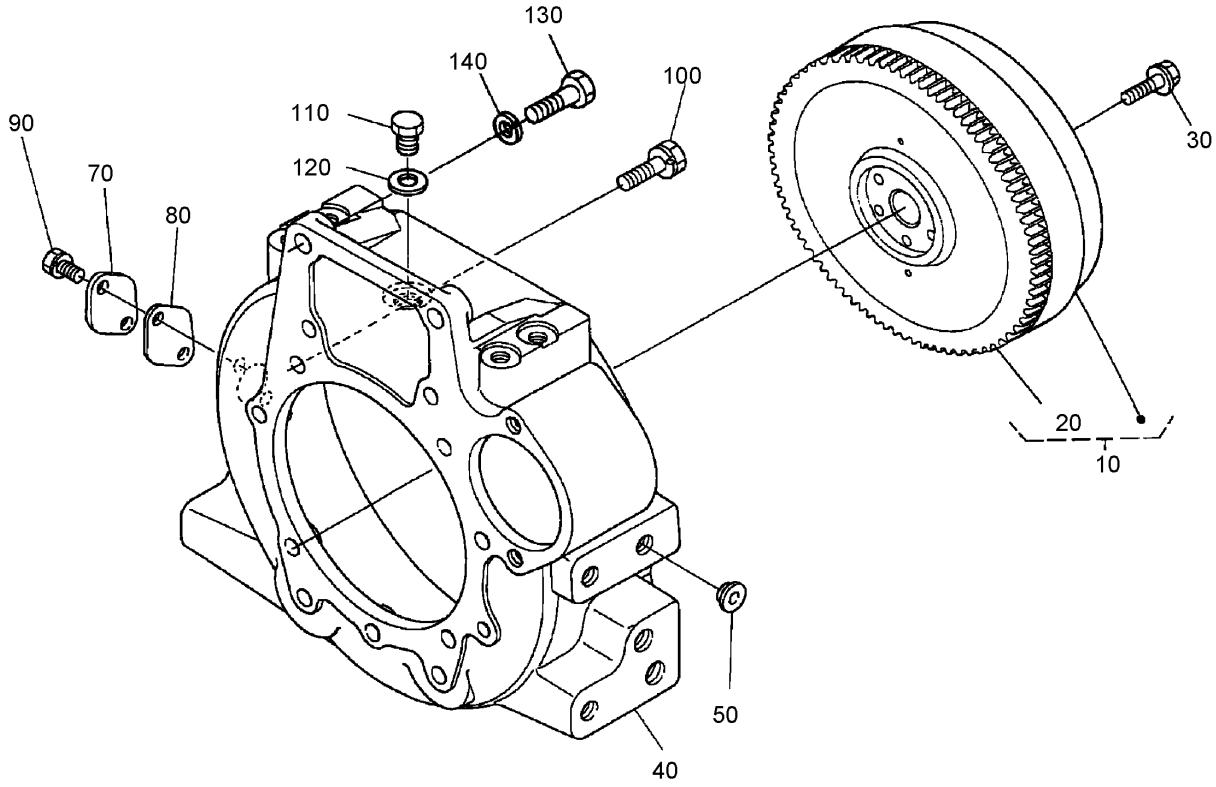
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7445 | 8 | Tappet |
| 20 | 98-7446 | 8 | Rod-Push |
| 30 | 100-9179 | 1 | Camshaft ASM |
| 40 | 100-9180 | 1 | Camshaft |
| 50 | 98-7473 | 1 | Ball |
| 60 | 98-7450 | 1 | Gear-Camshaft |
| 70 | 98-7451 | 1 | Key-Feather |
| 80 | 98-7452 | 1 | Stopper-Camshaft |
| 90 | 98-7453 | 2 | Bolt |
| 100 | 107-0109 | 1 | Gear-Idler |
| 110 | 98-7455 | 1 | Bushing-Gear, Idler |
| 130 | 107-0111 | 1 | Collar |
| 140 | 107-0112 | 1 | Circlip-External |
| 150 | 107-0113 | 1 | Shaft-Gear, Idler |
| 160 | 98-7453 | 3 | Bolt |




# Piston and Crankshaft Assembly

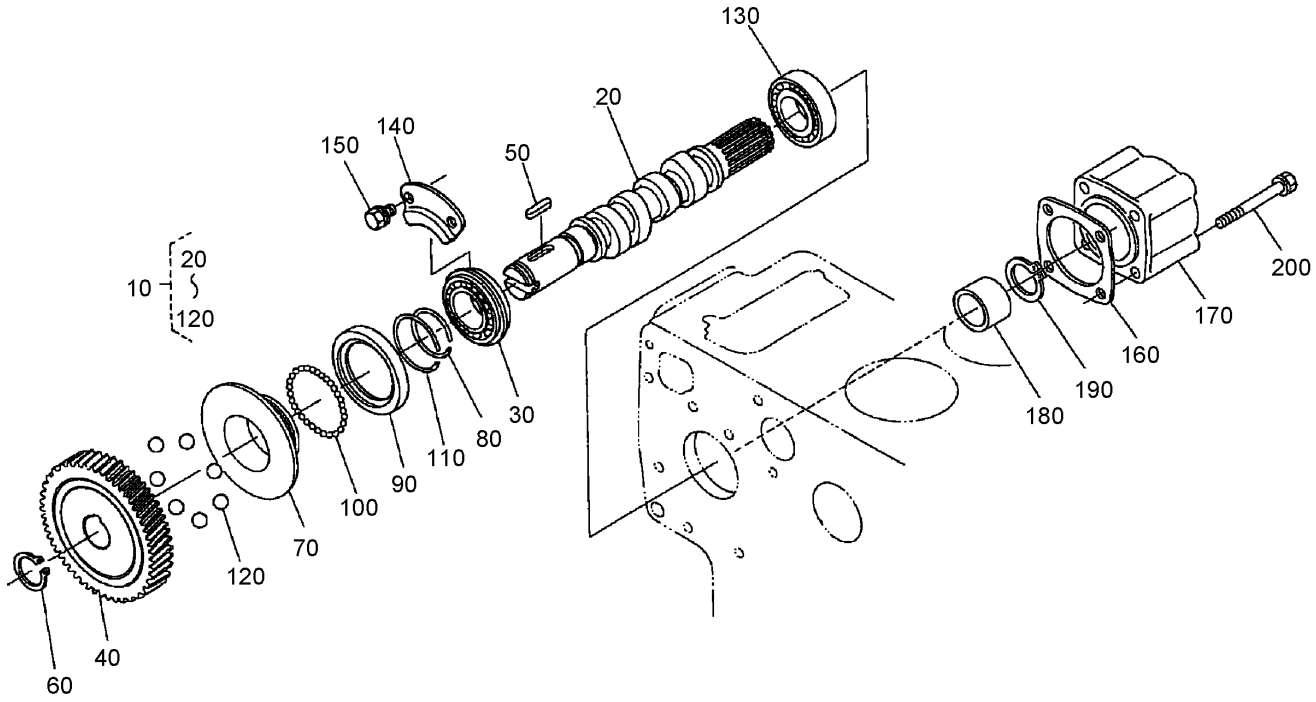
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9181 | 4 | Piston-STD |
| 10 | 99-5435 | 1 | Piston (.50Mm) |
| 20 | 99-5436 | 1 | Piston Ring ASM (0.50Mm) |
| 20 | 100-9182 | 4 | Piston Ring ASM (STD) |
| 30 | 98-7464 | 4 | Pin-Piston |
| 40 | 98-7465 | 8 | Clip-Pin, Piston |
| 50 | 98-7466 | 4 | Connecting Rod ASM |
| 60 | 98-7467 | 4 | Bushing-Pin, Piston |
| 70 | 98-7468 | 8 | Bolt-Rod, Connecting |
| 80 | 98-7471 | 4 | Metal-Crankpin (-0.40Mm) |
| 80 | 98-7470 | 4 | Metal-Crankpin (-0.20Mm) |
| 80 | 98-7469 | 4 | Metal-Crankpin (STD) |
| 90 | 98-7472 | 1 | Crankshaft-Complete |
| 100 | 98-7473 | 4 | Ball |
| 110 | 98-7474 | 1 | Sleeve-Crankshaft |
| 120 | 98-7475 | 1 | Gear-Crankshaft |
| 130 | 98-7451 | 1 | Key-Feather |
| 140 | 98-7476 | 1 | Slinger-Oil |
| 150 | 98-7477 | 1 | Collar-Crankshaft |
| 160 | 98-7478 | 1 | O-Ring |
| 170 | 98-7479 | 1 | Nut-Crankshaft |
| 180 | 108-7077 | 1 | Metal-Crankshaft (-0.40Mm) |
| 180 | 108-7076 | 1 | Metal-Crankshaft (-0.20Mm) |
| 180 | 108-7075 | 1 | Metal-Crankshaft (STD) |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 190 | 98-7480 | 1 | Seal-Oil |
| 200 | 108-7080 | 2 | Metal-Side (+0.40Mm) |
| 200 | 108-7079 | 2 | Metal-Side (+0.20Mm) |
| 200 | 108-7078 | 2 | Metal-Side (STD) |
| 210 | 108-7083 | 2 | Metal-Side (+0.40Mm) |
| 210 | 108-7082 | 2 | Metal-Side (+0.20Mm) |
| 210 | 108-7081 | 2 | Metal-Side (STD) |



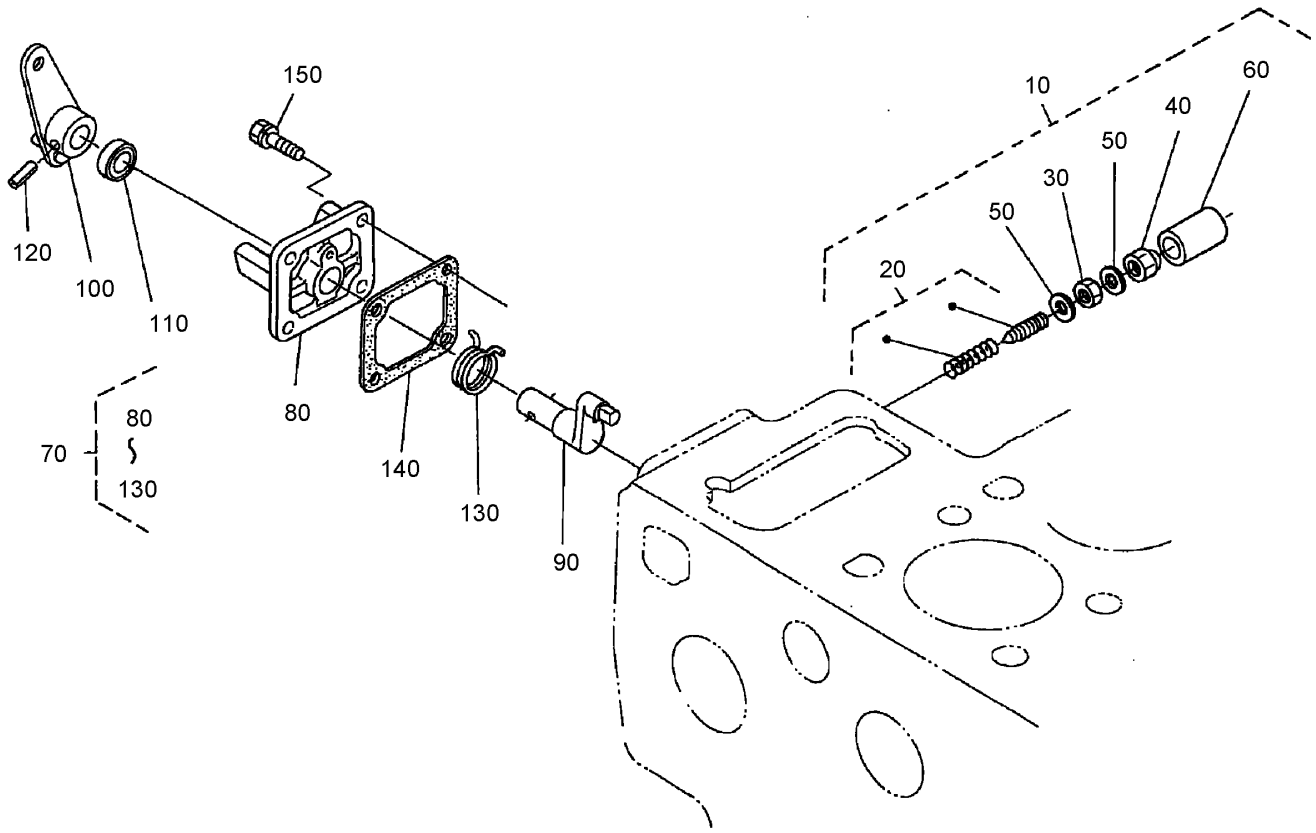

# Flywheel Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7532 | 1 | Flywheel |
| 20 | 98-7560 | 1 | Gear-Ring |
| 30 | 98-7573 | 6 | Bolt-Flywheel |
| 40 | 98-7559 | 1 | Housing-Flywheel |
| 50 | 100-9189 | 2 | Plug |
| 70 | 98-7883 | 1 | Cover |
| 80 | 98-7886 | 1 | Gasket |
| 90 | 105-4577 | 2 | Bolt |
| 100 | 98-7885 | 11 | Bolt |
| 110 | 98-7546 | 1 | Plug |
| 120 | 100-9194 | 1 | Washer-Plain |
| 130 | 107-0114 | 2 | Bolt |
| 140 | 107-0118 | 2 | Washer-Spring |



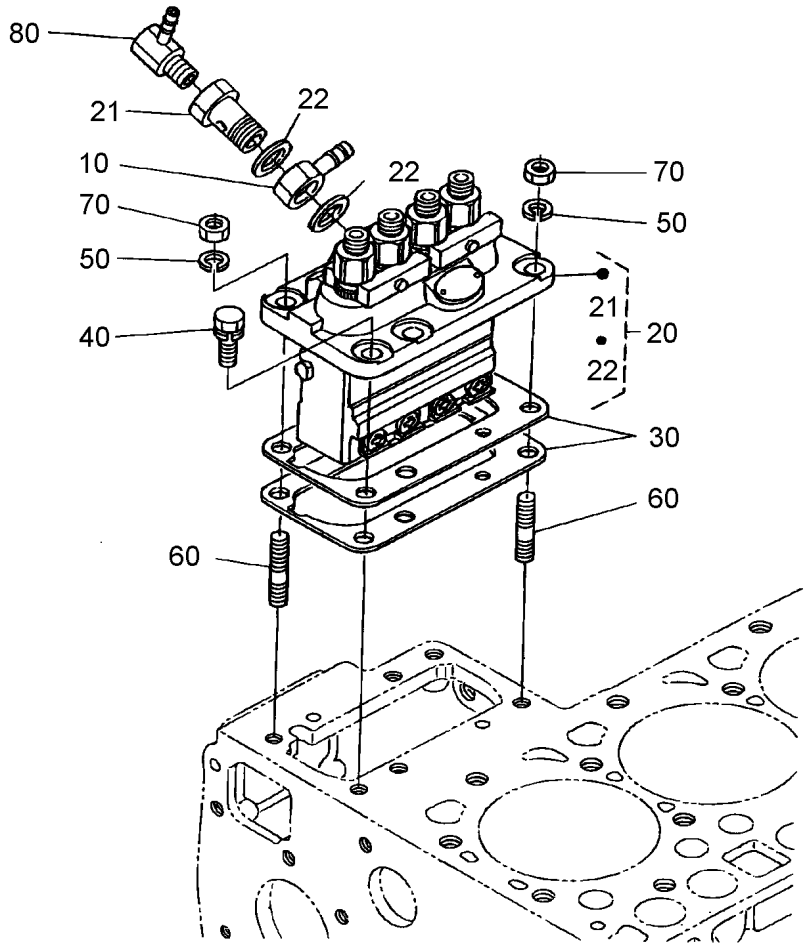

# Fuel Camshaft and Governor Shaft Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7551 | 1 | Fuel Camshaft ASM |
| 20 | 98-7508 | 1 | Camshaft-Fuel |
| 30 | 98-7595 | 1 | Bearing-Ball |
| 40 | 98-7574 | 1 | Gear-Pump, Injection |
| 50 | 98-7575 | 1 | Key-Feather |
| 60 | 98-7576 | 1 | Clip-Cir., External |
| 70 | 98-7577 | 1 | Sleeve-Governor |
| 80 | 98-7578 | 1 | Circlip-Sleeve, Governor |
| 90 | 98-7579 | 1 | Case-Ball, Governor |
| 100 | 98-7580 | 39 | Ball |
| 110 | 98-7581 | 1 | Circlip |
| 120 | 98-7582 | 7 | Ball |
| 130 | 108-7084 | 1 | Bearing-Ball |
| 140 | 98-7584 | 1 | Stopper |
| 150 | 100-9195 | 2 | Bolt |
| 160 | 98-7588 | 1 | Gasket |
| 170 | 98-7586 | 1 | Cover-Fuel, Camshaft |
| 180 | 98-7587 | 1 | Collar |
| 190 | 98-7589 | 1 | Circlip-External |
| 200 | 98-7590 | 4 | Bolt |



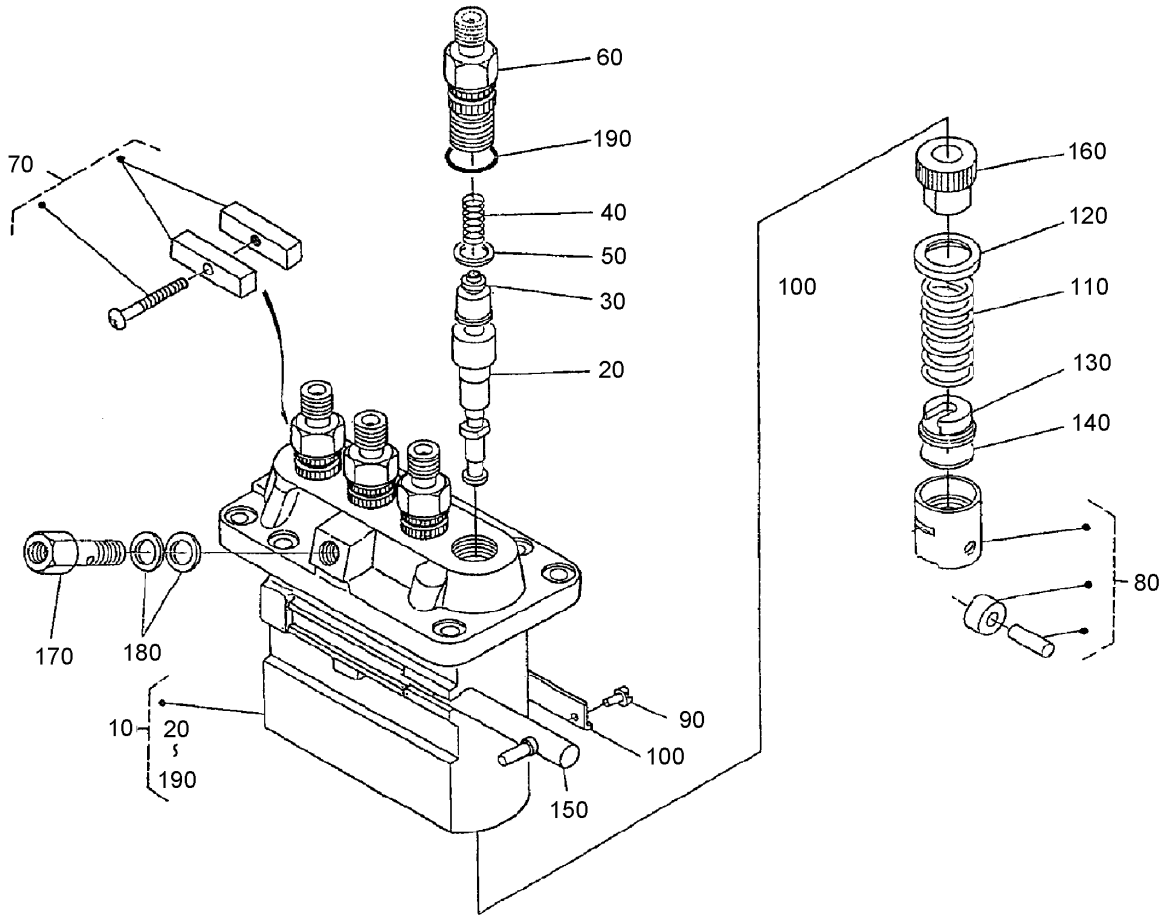

# Engine Stop Lever Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7591 | 1 | I/D Appartus ASM |
| 20 | 98-7592 | 1 | Adjusting Bolt ASM |
| 30 | 98-7593 | 1 | Nut |
| 40 | 98-7594 | 1 | Nut-Cap |
| 50 | 98-7428 | 2 | Gasket |
| 60 | 98-7596 | 1 | Cap |
| 70 | 100-9198 | 1 | Engine Stop Lever ASM |
| 80 | 98-7598 | 1 | Cover-Pump, Injection |
| 90 | 100-9200 | 1 | Shaft-Lever |
| 100 | 98-7600 | 1 | Lever-Stop, Engine |
| 110 | 98-7601 | 1 | Seal-Oil |
| 120 | 98-7602 | 1 | Pin-Spring |
| 130 | 98-7603 | 1 | Spring-Return |
| 140 | 98-7604 | 1 | Gasket-Cover, Pump |
| 150 | 98-7605 | 4 | Bolt |



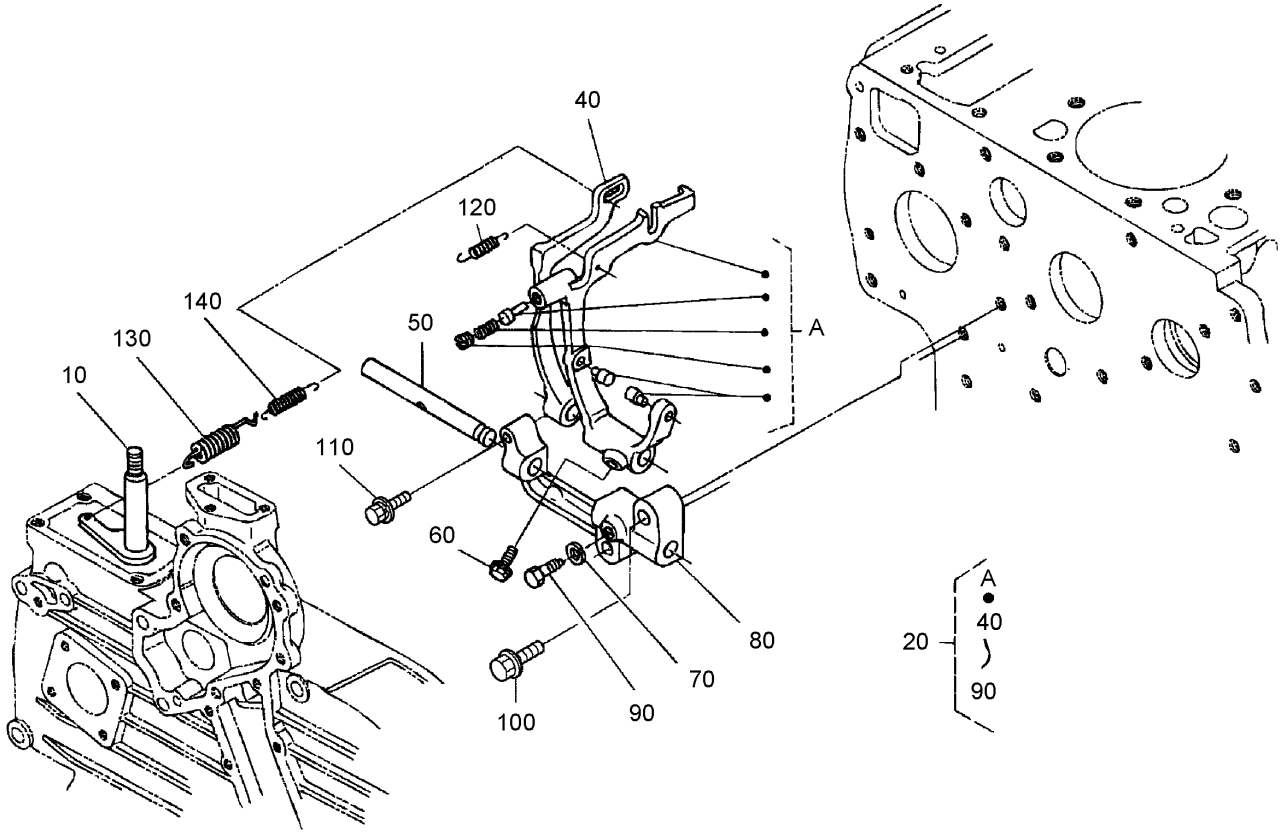

# Injection Pump Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7617 | 1 | Joint |
| 20 | 100-9201 | 1 | Injection Pump ASM |
| 21 | 98-7635 | 1 | Screw |
| 22 | 98-7636 | 2 | Gasket |
| 30 | 98-7609 | 1 | Shim-Pump, Injection |
| 30 | 98-7608 | 1 | Shim |
| 30 | 98-7607 | 1 | Shim |
| 40 | 98-7610 | 4 | Bolt |
| 50 | 105-2893 | 2 | Washer-Spring |
| 60 | 100-1558 | 2 | Stud-Manifold, Exhaust |
| 70 | 98-7534 | 2 | Nut |
| 80 | 107-4300 | 1 | Orifice ASM |



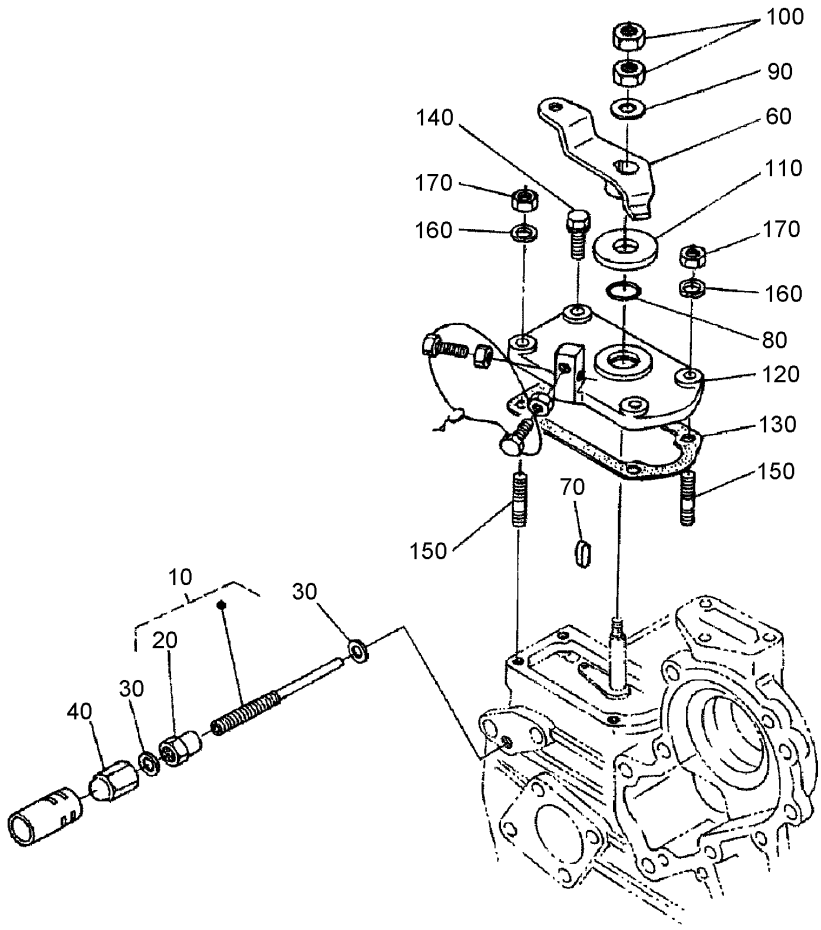

# Injection Pump (Component Part) Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9201 | 1 | Injection Pump ASM |
| 20 | 98-7619 | 4 | Plunger-Pump |
| 30 | 98-7620 | 4 | Valve-Delivery |
| 40 | 98-7621 | 4 | Spring-Valve, Delivery |
| 50 | 98-7622 | 4 | Gasket-Valve, Delivery |
| 60 | 98-7623 | 4 | Holder-Valve, Delivery |
| 70 | 98-7624 | 2 | Lock Plate ASM |
| 80 | 98-7625 | 4 | Tappet ASM |
| 90 | 98-7626 | 4 | Pin-Guide, Tappet |
| 100 | 98-7627 | 2 | Plate |
| 110 | 98-7628 | 4 | Spring-Plunger |
| 120 | 98-7629 | 4 | Seat-Spring, Upper |
| 130 | 98-7630 | 4 | Seat-Spring, Lower |
| 140 | 98-7631 | 4 | Shim |
| 150 | 98-7632 | 1 | Rack-Control |
| 160 | 98-7634 | 4 | Sleeve-Control |
| 170 | 98-7635 | 1 | Screw |
| 180 | 98-7636 | 2 | Gasket |
| 190 | 98-7637 | 4 | O-Ring |



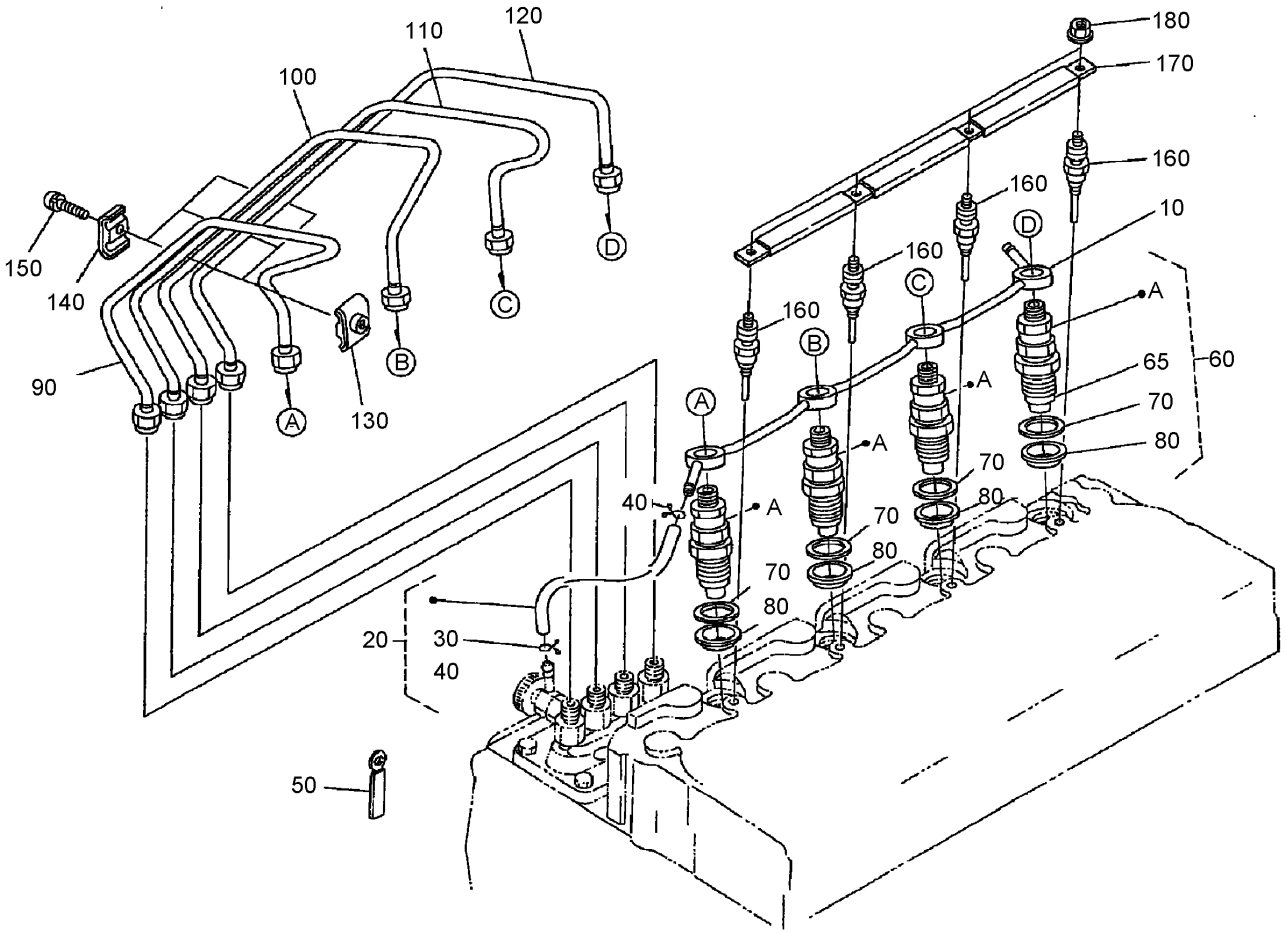

# Governor Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7638 | 1 | Lever-Governor |
| 20 | 100-9204 | 1 | Lever-Fork |
| 40 | 100-9206 | 1 | Lever-Fork |
| 50 | 107-0120 | 1 | Shaft-Lever, Fork |
| 60 | 107-0116 | 1 | Bolt-Flange |
| 70 | 98-7699 | 1 | Washer-Spring |
| 80 | 98-7643 | 1 | Holder-Lever, Fork |
| 90 | 98-7644 | 1 | Bolt |
| 100 | 108-7085 | 2 | Bolt-Flange |
| 110 | 108-7086 | 1 | Bolt |
| 120 | 100-9207 | 1 | Spring-Start |
| 130 | 100-9208 | 1 | Spring-Governor |
| 140 | 98-7651 | 1 | Spring-Governor |



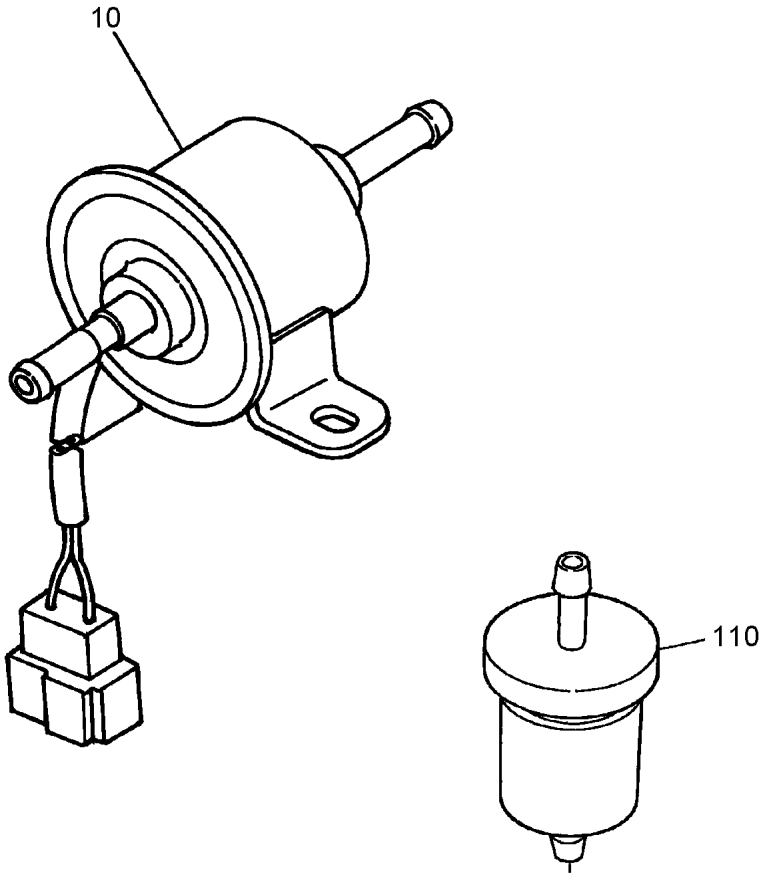

# Speed Control Plate Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 107-0132 | 1 | Adjustable Bolt ASM |
| 20 | 98-7653 | 1 | Nut |
| 30 | 98-7654 | 2 | Gasket |
| 40 | 98-7655 | 1 | Nut-Cap |
| 60 | 98-7657 | 1 | Lever-Control, Speed |
| 70 | 98-7658 | 1 | Key-Feather |
| 80 | 108-7087 | 1 | O Ring |
| 90 | 98-7660 | 1 | Washer-Plain |
| 100 | 98-7661 | 2 | Nut |
| 110 | 98-7662 | 1 | Collar |
| 120 | 98-7663 | 1 | Plate-Control, Speed |
| 130 | 98-7664 | 1 | Gasket |
| 140 | 98-7568 | 2 | Bolt |
| 150 | 98-7571 | 2 | Stud |
| 160 | 98-7699 | 2 | Washer-Spring |
| 170 | 98-7572 | 2 | Nut |



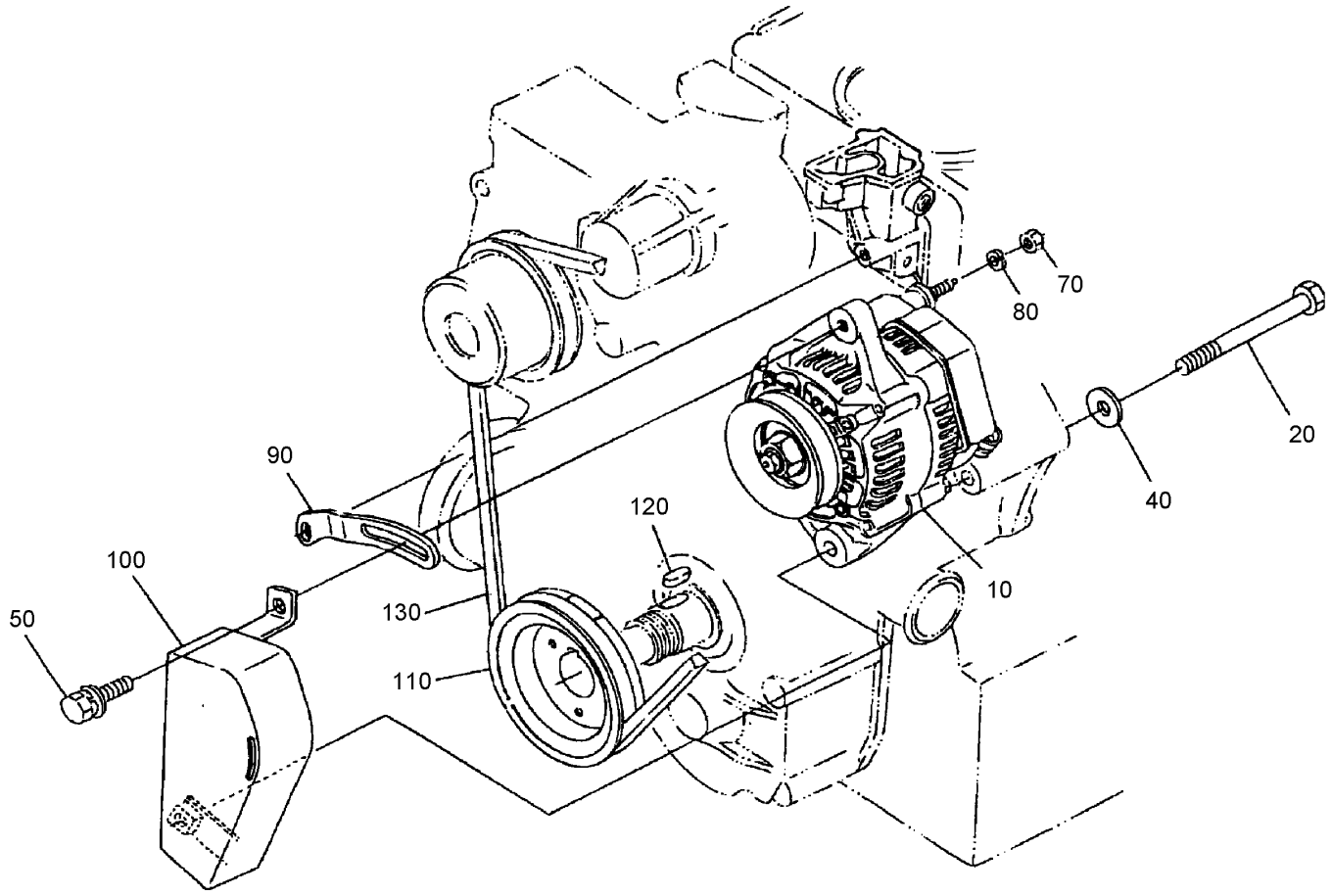

# Nozzle Holder and Glow Plug Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9213 | 1 | Overflow Pipe ASM |
| 20 | 98-7670 | 1 | Overflow Pipe ASM |
| 30 | 98-7671 | 1 | Clip-Pipe |
| 40 | 98-7672 | 1 | Clip-Pipe |
| 50 | 98-7673 | 1 | Clamp-Cord |
| 60 | 100-9214 | 1 | Nozzle Holder Kit |
| 65 | 100-9215 | 4 | Piece-Nozzle |
| 70 | 98-7676 | 4 | Gasket |
| 80 | 98-7677 | 4 | Seal-Heat |
| 90 | 100-9216 | 1 | Pipe-Injection |
| 100 | 100-9217 | 1 | Pipe-Injection |
| 110 | 100-9218 | 1 | Pipe-Injection |
| 120 | 100-9219 | 1 | Pipe-Injection |
| 130 | 98-7682 | 3 | Clamp-Pipe |
| 140 | 98-7683 | 3 | Clamp-Pipe |
| 150 | 98-9364 | 3 | Screw (With Washer) |
| 160 | 98-7685 | 4 | Plug-Glow |
| 170 | 98-7686 | 1 | Cord-Plug, Glow |
| 180 | 99-8377 | 4 | Nut-Flange |



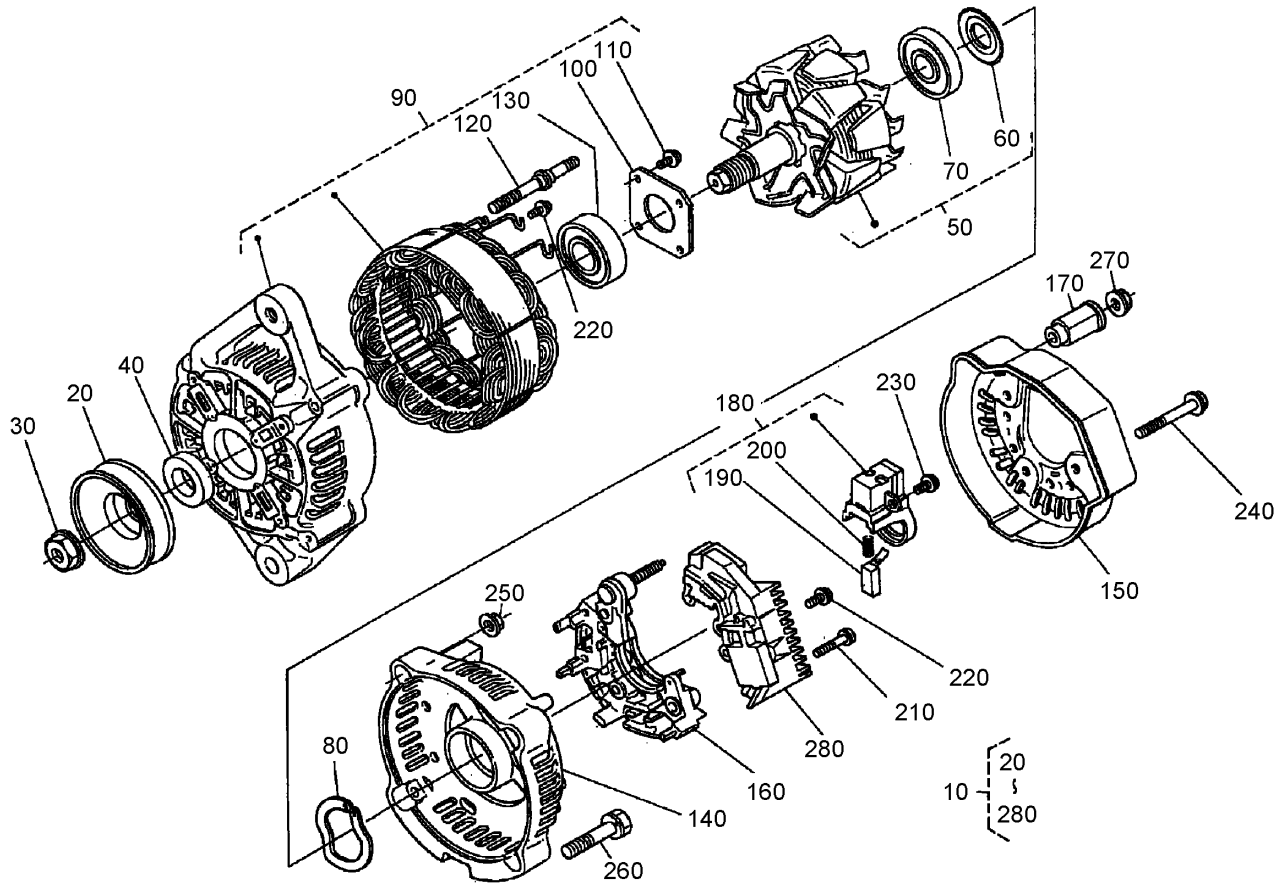

# Fuel Filter and Fuel Pump

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 107-0122 | 1 | Pump-Fuel, Electric |
| 110 | 98-7612 | 1 | Filter-Fuel |




# Alternator and Pulley Assembly

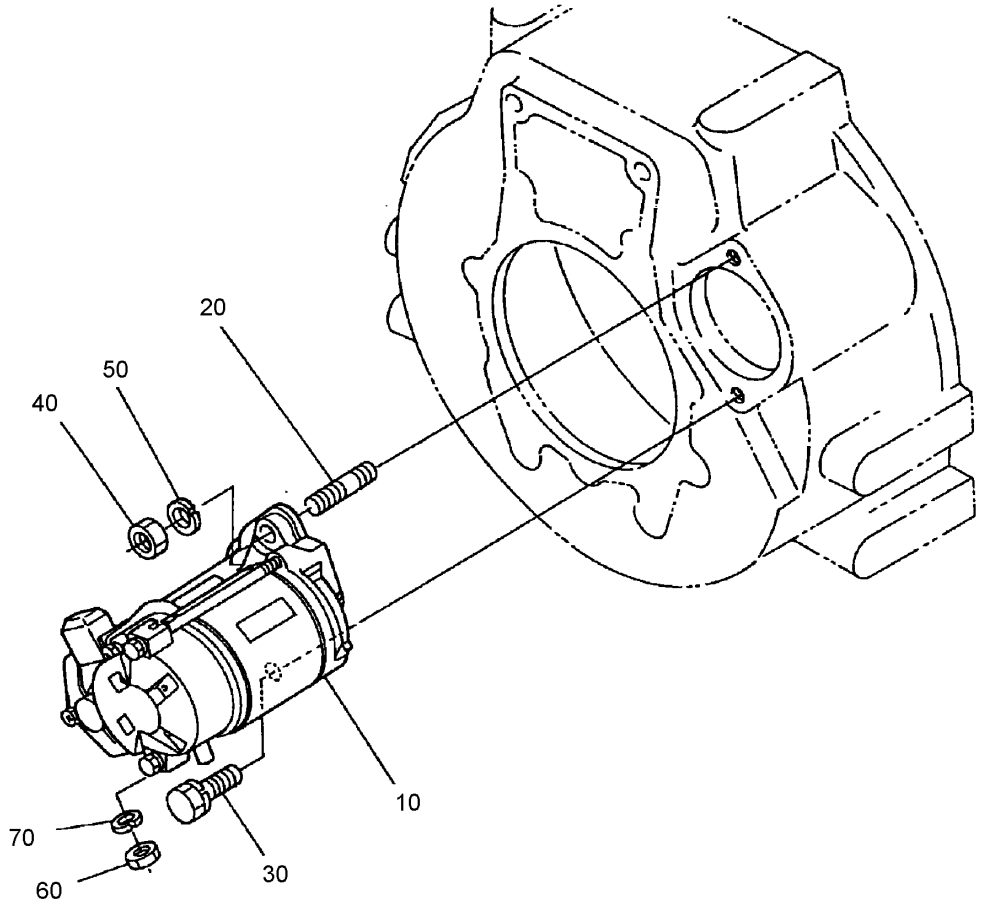
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7693 | 1 | Alternator ASM |
| 20 | 98-7695 | 1 | Bolt |
| 40 | 98-9366 | 1 | Washer-Plain |
| 50 | 108-7088 | 1 | Bolt |
| 70 | 98-7572 | 1 | Nut |
| 80 | 98-7699 | 1 | Washer-Spring |
| 90 | 105-2872 | 1 | Bracket-Alternator |
| 100 | 98-7701 | 1 | Cover-Belt |
| 110 | 106-2044 | 1 | Pulley-Drive, Fan |
| 120 | 98-7451 | 1 | Key-Feather |
| 130 | 98-7705 | 1 | V-Belt |




# Alternator (Component Part) Assembly

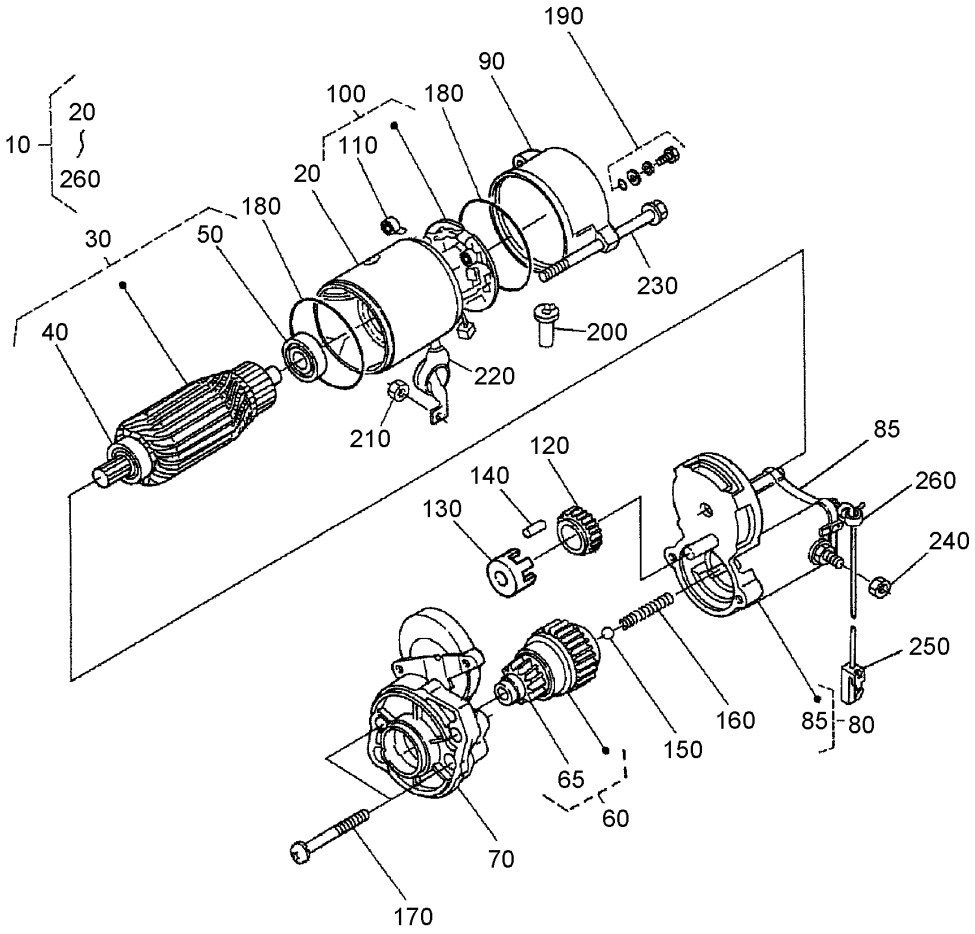
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 107-0145 | 1 | Alternator ASM |
| 20 | 98-7707 | 1 | Pulley-Alternator |
| 30 | 98-7708 | 1 | Nut |
| 40 | 98-7709 | 1 | Collar |
| 50 | 107-0136 | 1 | Rotor |
| 60 | 98-7711 | 1 | Cover-Bearing |
| 70 | 107-0138 | 1 | Bearing-Ball |
| 80 | 98-7713 | 1 | Washer-Thrust |
| 90 | 107-0139 | 1 | Drive End Frame ASM |
| 100 | 98-7715 | 1 | Plate-Retainer |
| 110 | 98-7716 | 4 | Screw-Head, Round |
| 120 | 98-7717 | 2 | Bolt-Through |
| 130 | 107-0137 | 1 | Bearing-Ball |
| 140 | 98-7719 | 1 | Frame-End |
| 150 | 107-0140 | 1 | Cover-End |
| 160 | 98-7721 | 1 | Rectifier ASM |
| 170 | 98-7722 | 1 | Bushing-Insulation |
| 180 | 107-0141 | 1 | Holder-Brush |
| 190 | 98-7724 | 2 | Brush |
| 200 | 98-7725 | 2 | Spring-Brush |
| 210 | 98-7726 | 2 | Screw-Head, Round |
| 220 | 98-7727 | 6 | Screw-Head, Round |
| 230 | 98-7728 | 1 | Screw-Head, Round |
| 240 | 98-7729 | 3 | Bolt |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 250 | 98-7730 | 2 | Nut |
| 260 | 98-7731 | 2 | Bolt |
| 270 | 98-7732 | 1 | Nut |
| 280 | 107-9088 | 1 | Regulator ASM |




# Starter Assembly

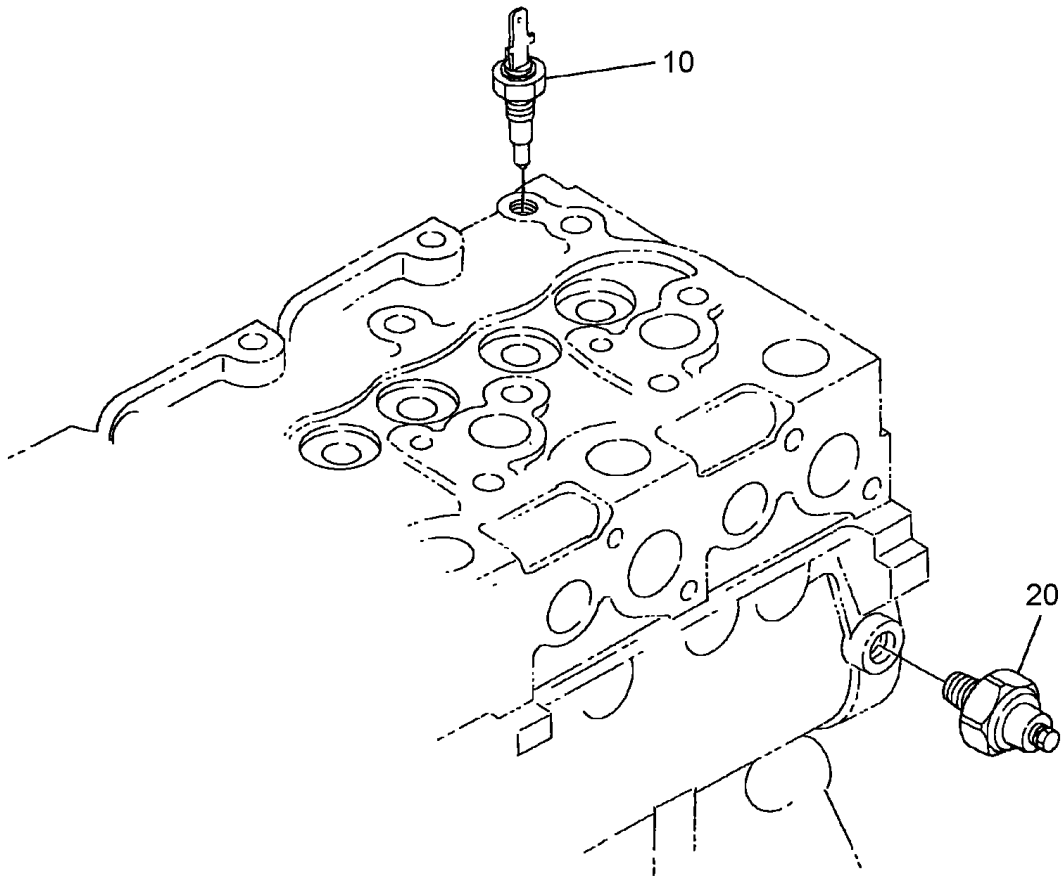
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9237 | 1 | Starter ASM |
| 20 | 98-7735 | 1 | Stud |
| 30 | 98-7736 | 1 | Bolt |
| 40 | 98-7737 | 1 | Nut |
| 50 | 98-7738 | 1 | Washer-Spring |
| 60 | 98-7739 | 1 | Nut |
| 70 | 105-2893 | 1 | Washer-Spring |




# Starter (Component Part) Assembly

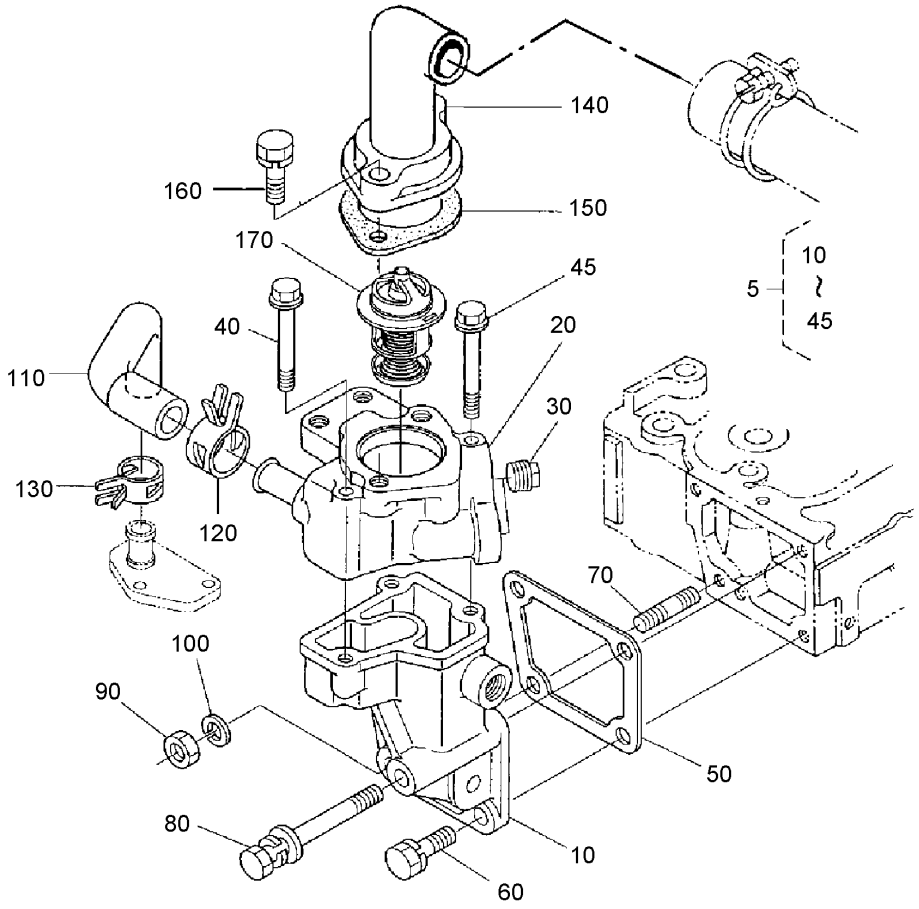
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9237 | 1 | Starter ASM |
| 20 | 104-8608 | 1 | Yoke ASM |
| 30 | 98-7742 | 1 | Armature ASM |
| 40 | 98-7744 | 1 | Bearing |
| 50 | 98-7743 | 1 | Bearing |
| 60 | 98-7745 | 1 | Clutch-Running, Over |
| 65 | 105-2887 | 1 | Pinion-Bevel |
| 70 | 98-7746 | 1 | Frame-End, Drive |
| 80 | 100-9239 | 1 | Magentic Switch ASM |
| 85 | 105-2886 | 1 | Cover ASM |
| 90 | 98-7748 | 1 | Frame-End |
| 100 | 98-7749 | 1 | Brush Holder ASM |
| 110 | 98-7750 | 4 | Spring-Brush |
| 120 | 98-7751 | 1 | Gear |
| 130 | 98-7752 | 1 | Retainer |
| 140 | 98-7753 | 5 | Roller |
| 150 | 98-7755 | 1 | Ball |
| 160 | 98-7754 | 1 | Spring |
| 170 | 98-7756 | 2 | Bolt |
| 180 | 98-7757 | 2 | O-Ring |
| 190 | 98-7758 | 2 | Bolt ASM |
| 200 | 98-7759 | 1 | Pipe-Drain |
| 210 | 99-8371 | 1 | Nut-Hex |
| 220 | 99-8375 | 1 | Cover |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 230 | 100-9240 | 2 | Bolt |
| 240 | 99-8376 | 1 | Nut-Hex |
| 250 | 98-9711 | 1 | Cord-Solenoid, Stop |
| 260 | 98-9712 | 1 | Band-Cover |



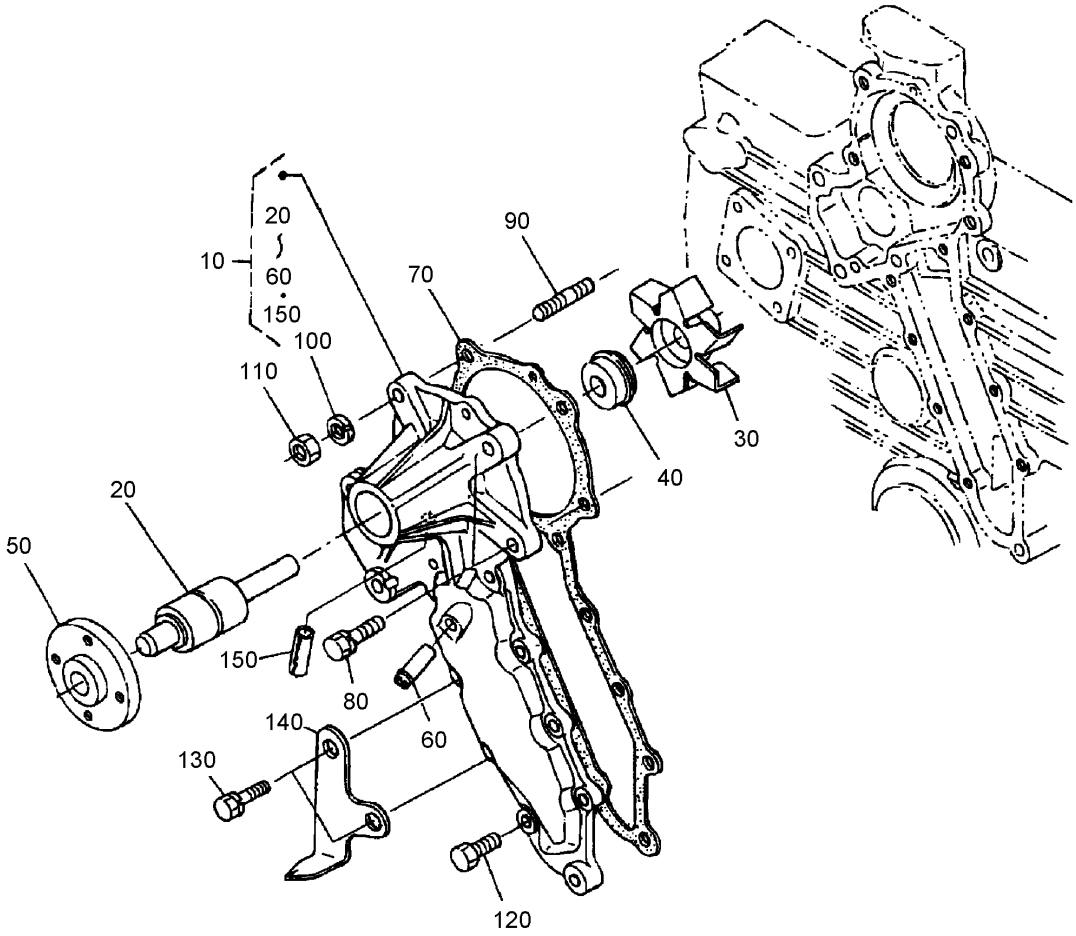

# Oil Switch / Thermometer and Plug Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 99-3582 | 1 | Thermoswitch |
| 20 | 98-7764 | 1 | Switch-Oil |



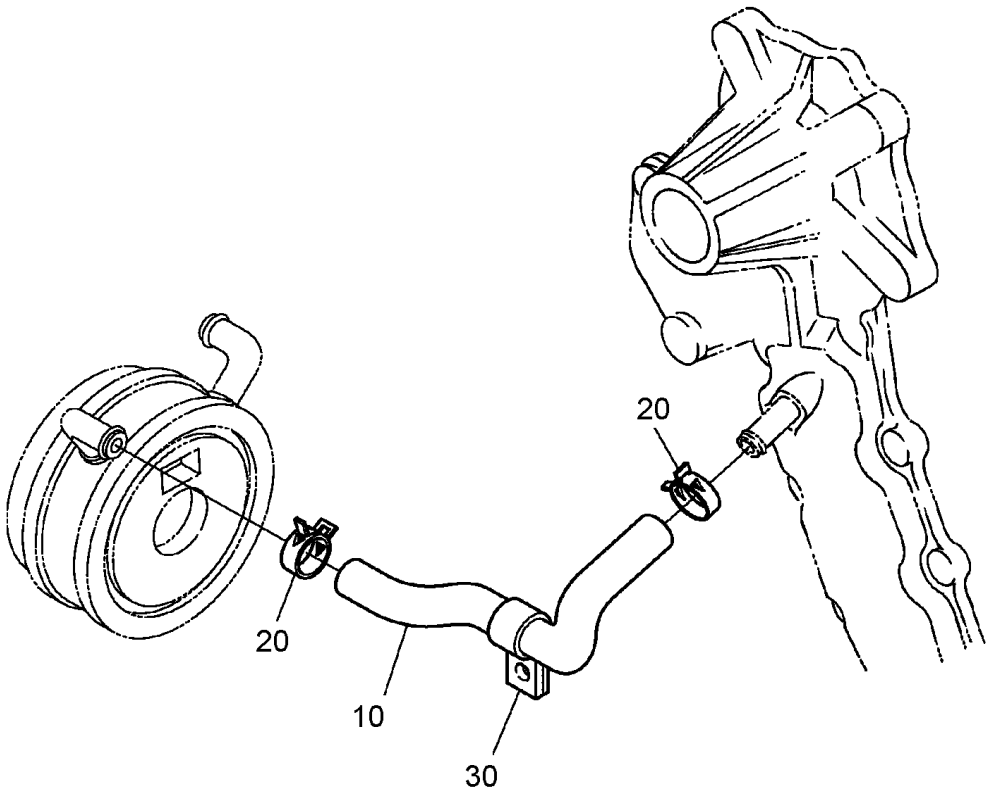

# Water Flange and Thermostat Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 5 | 105-4578 | 1 | Water Flange ASM |
| 10 | 107-0143 | 1 | Flange-Water |
| 20 | 107-0144 | 1 | Flange-Water |
| 30 | 105-2874 | 2 | Plug |
| 40 | 105-2875 | 2 | Bolt-Flange |
| 40 | 105-2875 | 3 | Bolt-Flange |
| 45 | 107-0117 | 1 | Bolt-Flange |
| 50 | 105-2876 | 1 | Gasket-Flange, Water |
| 60 | 98-7610 | 2 | Bolt |
| 70 | 100-1558 | 1 | Stud-Manifold, Exhaust |
| 80 | 107-0115 | 1 | Bolt |
| 90 | 98-7534 | 1 | Nut |
| 100 | 105-2893 | 1 | Washer-Spring |
| 110 | 105-2878 | 1 | Pipe-Return, Water |
| 120 | 98-9714 | 1 | Clamp-Hose |
| 130 | 105-2879 | 1 | Clamp-Hose |
| 140 | 100-9244 | 1 | Cover-Thermostat |
| 150 | 105-3748 | 1 | Gasket-Thermostat |
| 160 | 98-7777 | 2 | Bolt |
| 170 | 105-2881 | 1 | Thermostat ASM |



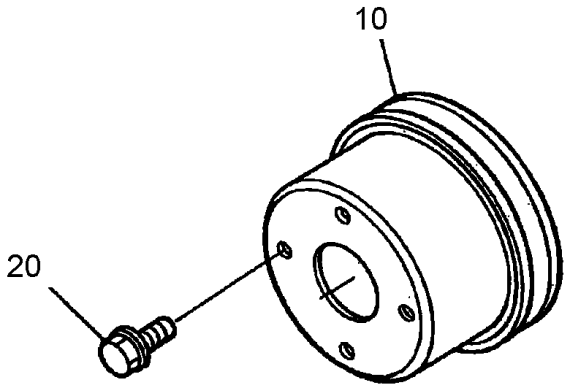

# Water Pump Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 107-0129 | 1 | Water Pump ASM |
| 20 | 98-7780 | 1 | Bearing-Ball |
| 30 | 107-0130 | 1 | Impeller-Pump, Water |
| 40 | 105-2882 | 1 | Mechanical Seal ASM |
| 50 | 108-7089 | 1 | Flange-Shaft, Water Pump |
| 60 | 98-9580 | 1 | Pipe-Return, Water |
| 70 | 98-7784 | 1 | Gasket-Pump, Water |
| 80 | 98-7439 | 2 | Bolt |
| 90 | 108-7090 | 2 | Stud |
| 100 | 105-2893 | 2 | Washer-Spring |
| 110 | 98-7534 | 2 | Nut |
| 120 | 98-7605 | 6 | Bolt |
| 130 | 98-7568 | 2 | Bolt |
| 140 | 100-9246 | 1 | Indicator-Timing |
| 150 | 107-0131 | 1 | Pin-Spring |



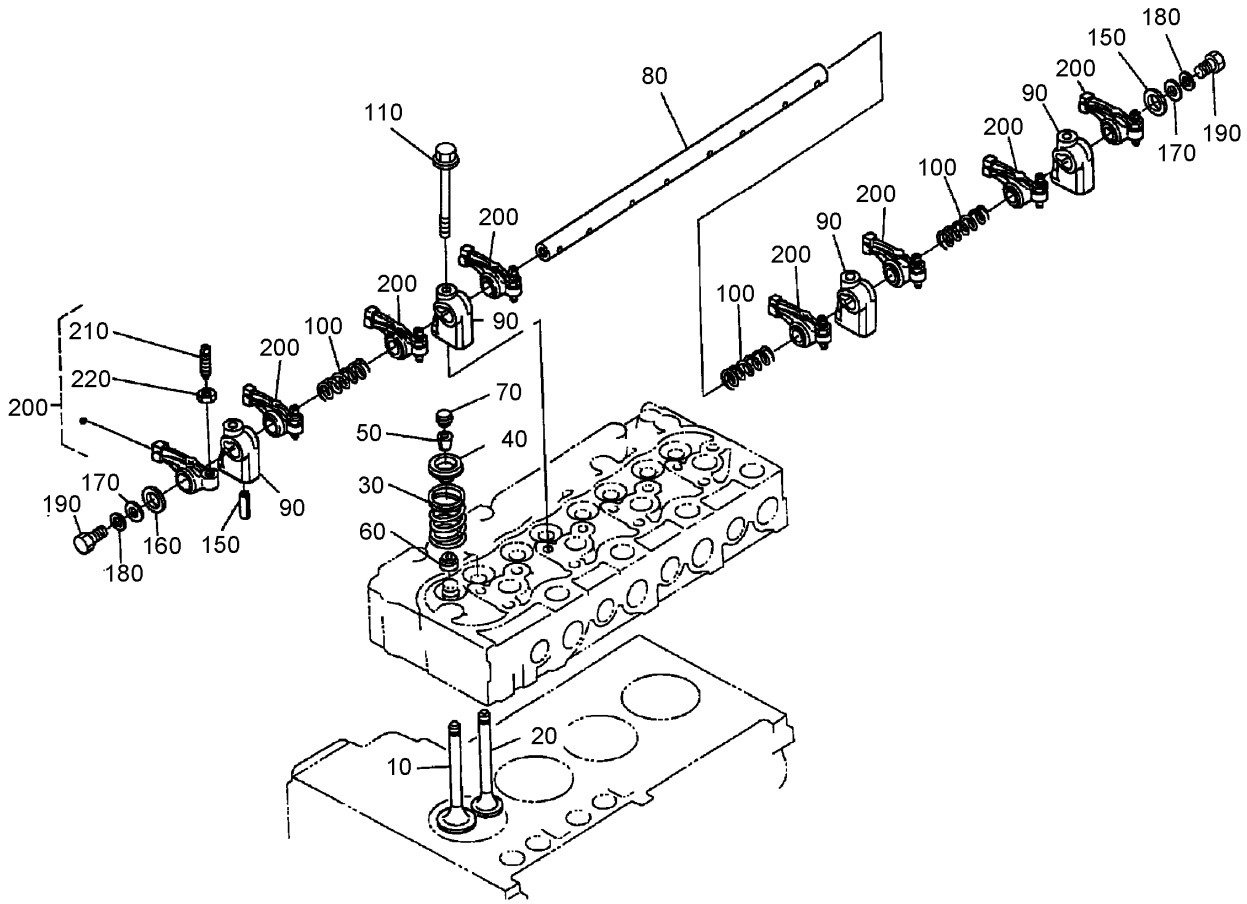

# Water Pipe Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 107-0124 | 1 | Pipe-Cooler, Oil |
| 20 | 98-9579 | 2 | Band-Pipe |
| 30 | 107-0123 | 1 | Clamp-Cord |



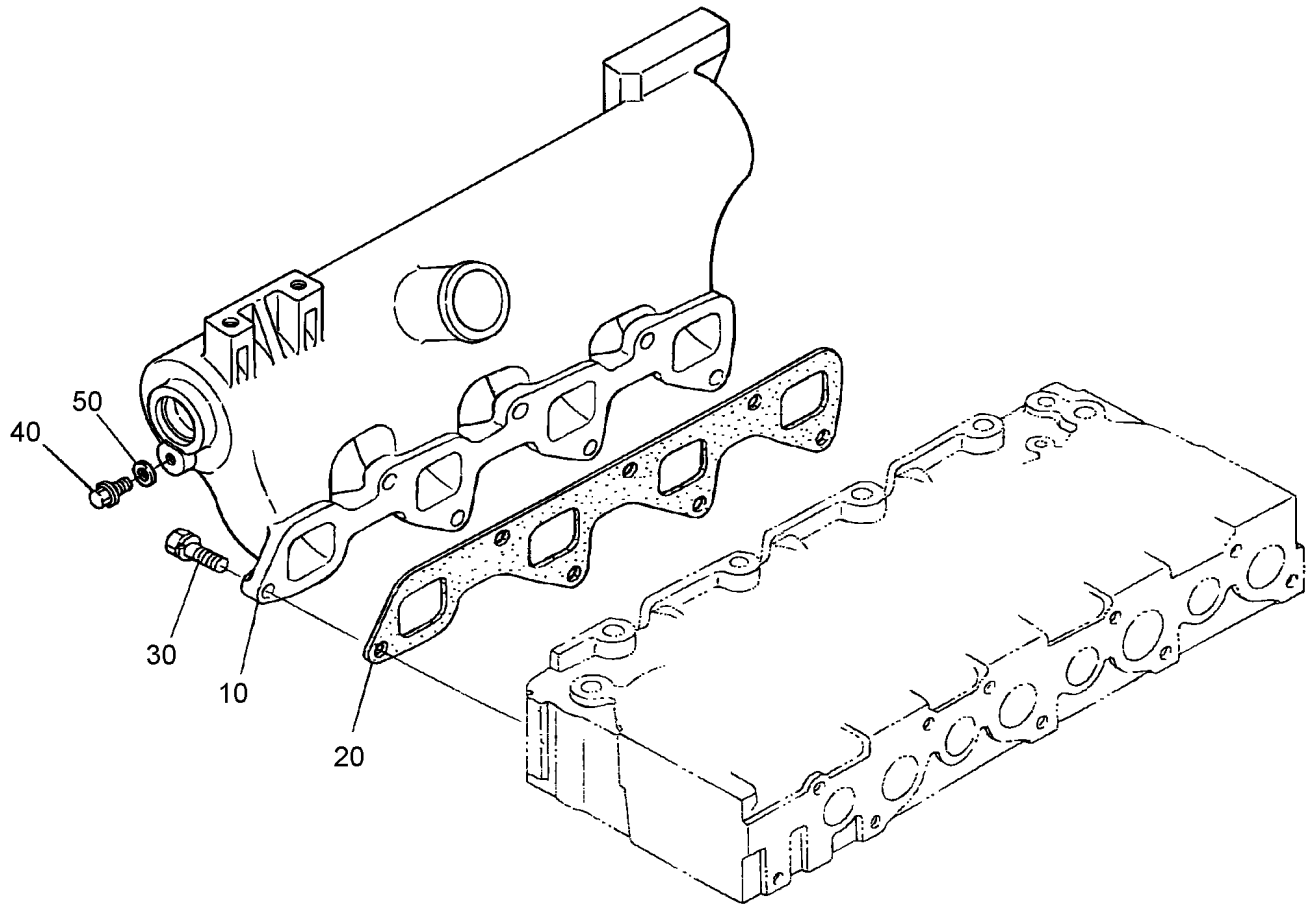

# Fan Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7702 | 1 | Pulley-Fan |
| 20 | 99-8363 | 4 | Bolt-Flange |



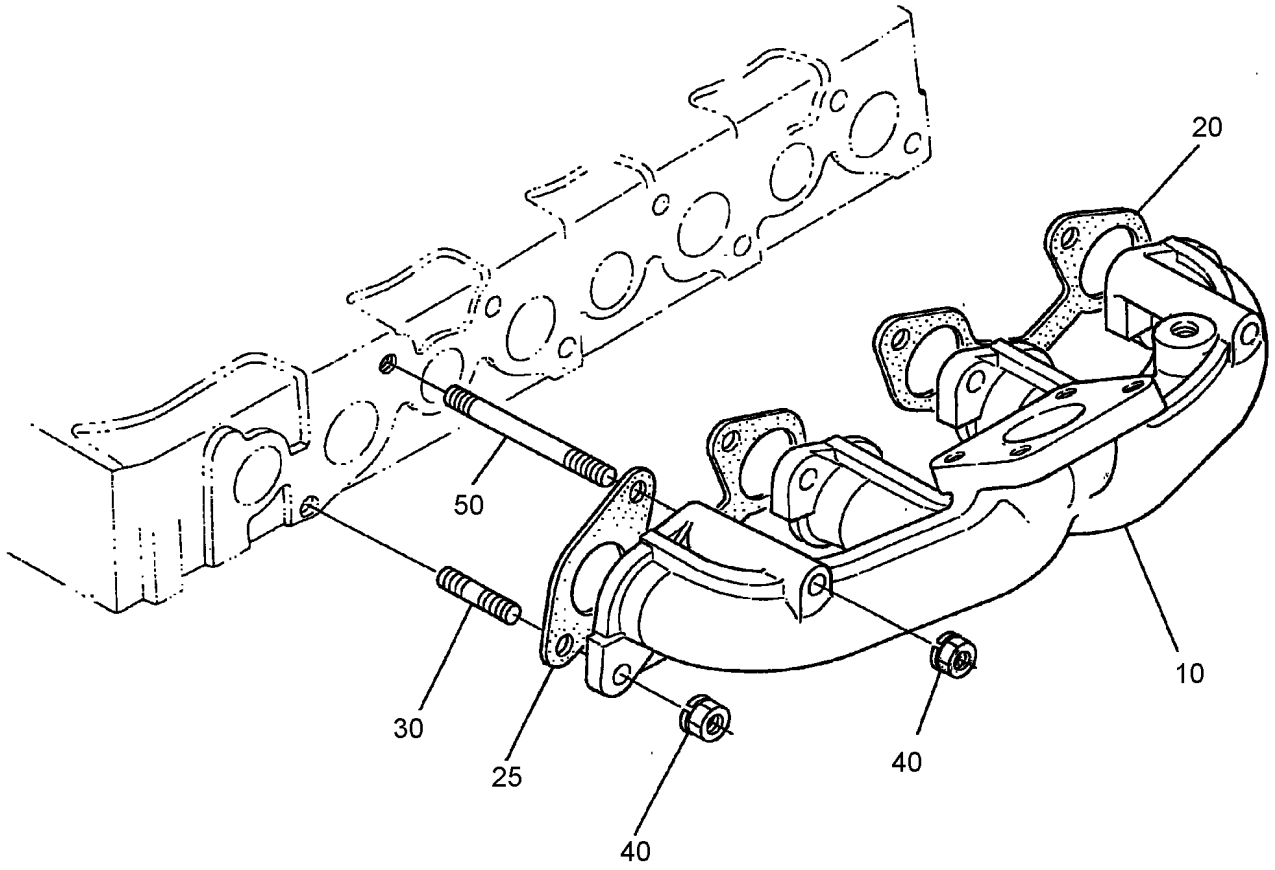

# Valve and Rocker Arm Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7791 | 4 | Valve-Inlet |
| 20 | 100-9281 | 4 | Valve-Exhaust |
| 30 | 98-7793 | 8 | Spring-Valve |
| 40 | 98-7794 | 8 | Retainer-Spring, Valve |
| 50 | 98-7795 | 8 | Collet-Spring, Valve |
| 60 | 98-7796 | 8 | Seal-Stem, Valve |
| 70 | 98-7797 | 8 | Cap-Valve |
| 80 | 107-0134 | 1 | Shaft-Arm, Rocker |
| 90 | 98-7800 | 4 | Bracket-Arm, Rocker |
| 100 | 98-7807 | 3 | Spring-Arm, Rocker |
| 110 | 108-7091 | 4 | Bolt-Flange |
| 150 | 98-7805 | 1 | Pin-Spring |
| 160 | 98-7806 | 2 | Washer |
| 170 | 98-7660 | 2 | Washer-Plain |
| 180 | 105-2893 | 4 | Washer-Spring |
| 190 | 98-7884 | 2 | Bolt |
| 200 | 98-7809 | 8 | Rocker Arm ASM |
| 210 | 98-7810 | 8 | Screw-Adjusting |
| 220 | 98-7811 | 8 | Nut |



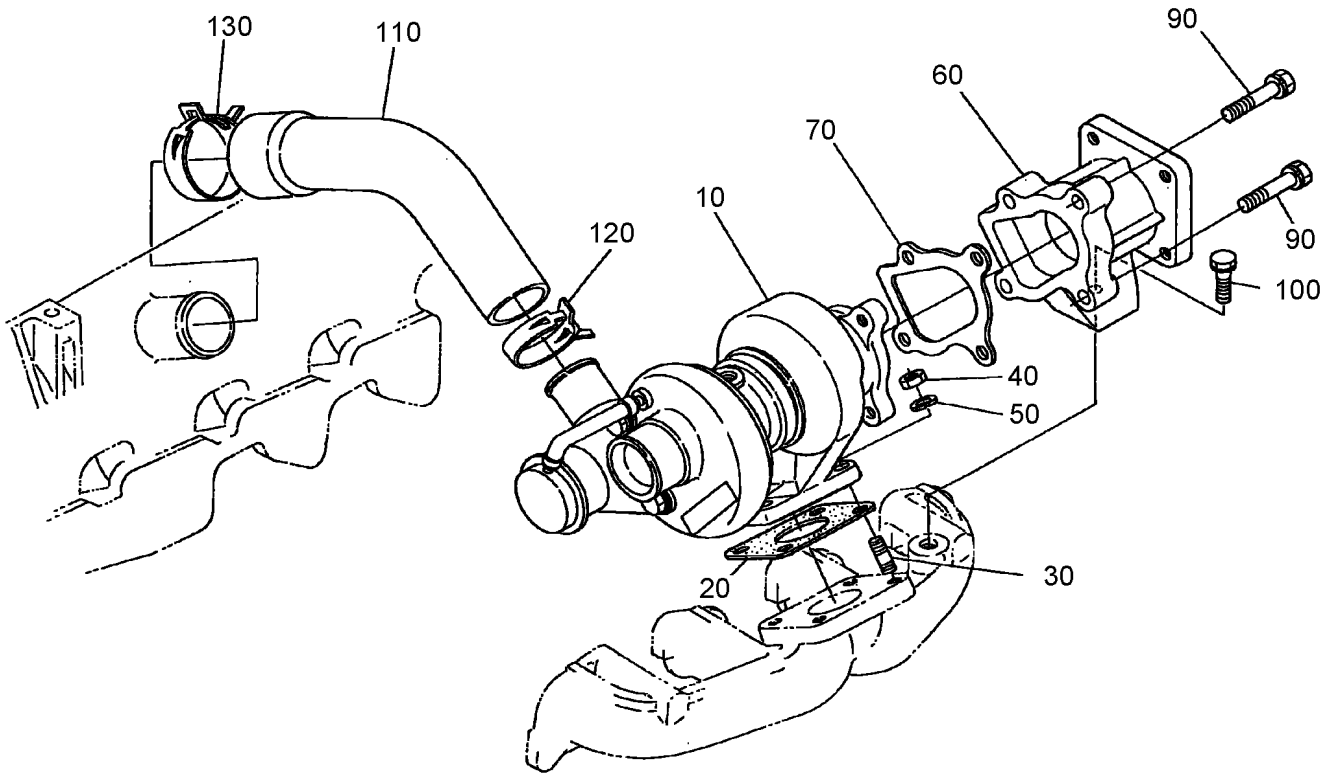

# Inlet Manifold Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9283 | 1 | Inlet-Manifold |
| 20 | 100-9284 | 1 | Gasket-Manifold, Intake |
| 30 | 98-7610 | 7 | Bolt |
| 40 | 107-4317 | 1 | Bolt-Flange |
| 50 | 98-7654 | 1 | Gasket |



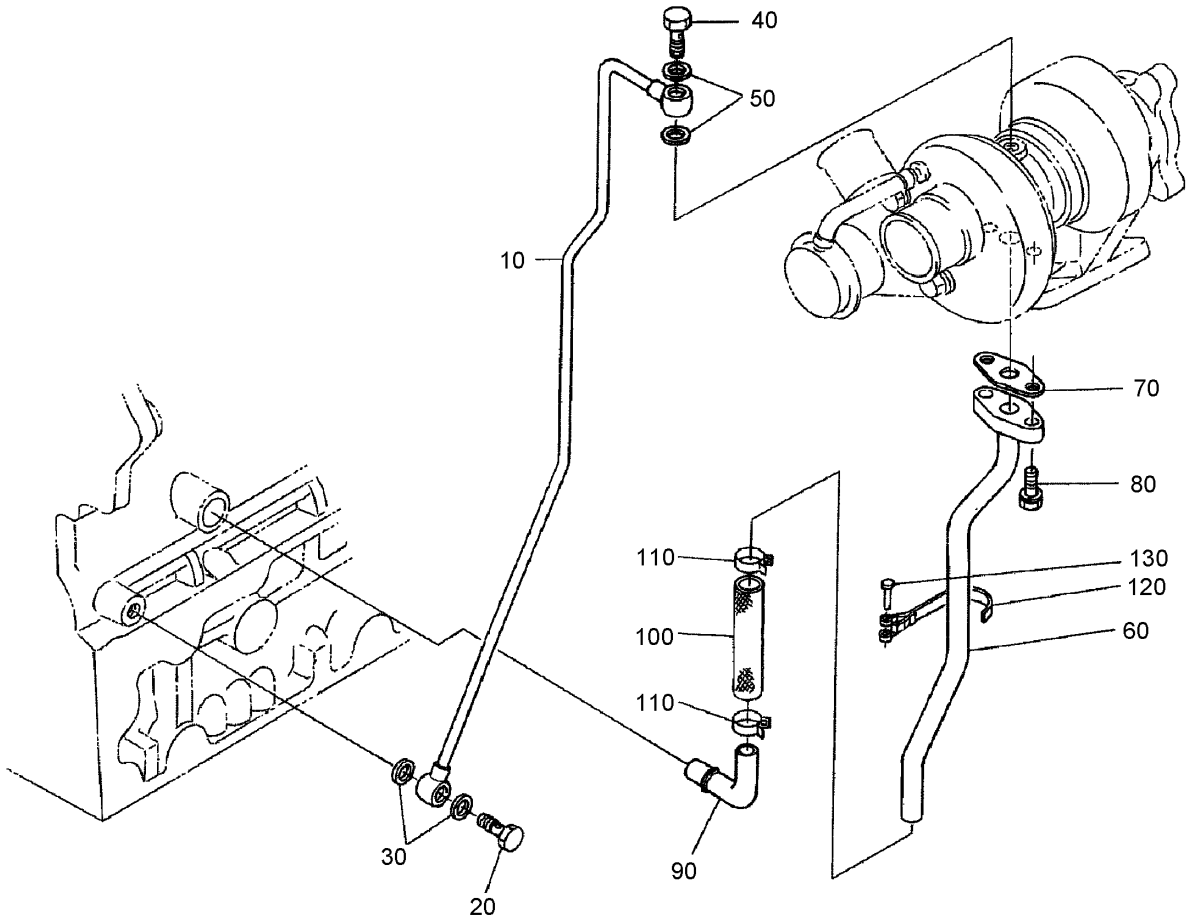

# Exhaust Manifold Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 108-7092 | 1 | Manifold-Exhaust |
| 20 | 98-7802 | 1 | Gasket |
| 25 | 98-7803 | 1 | Gasket |
| 30 | 100-1558 | 6 | Stud-Manifold, Exhaust |
| 40 | 100-9288 | 8 | Nut |
| 50 | 100-9289 | 2 | Stud |



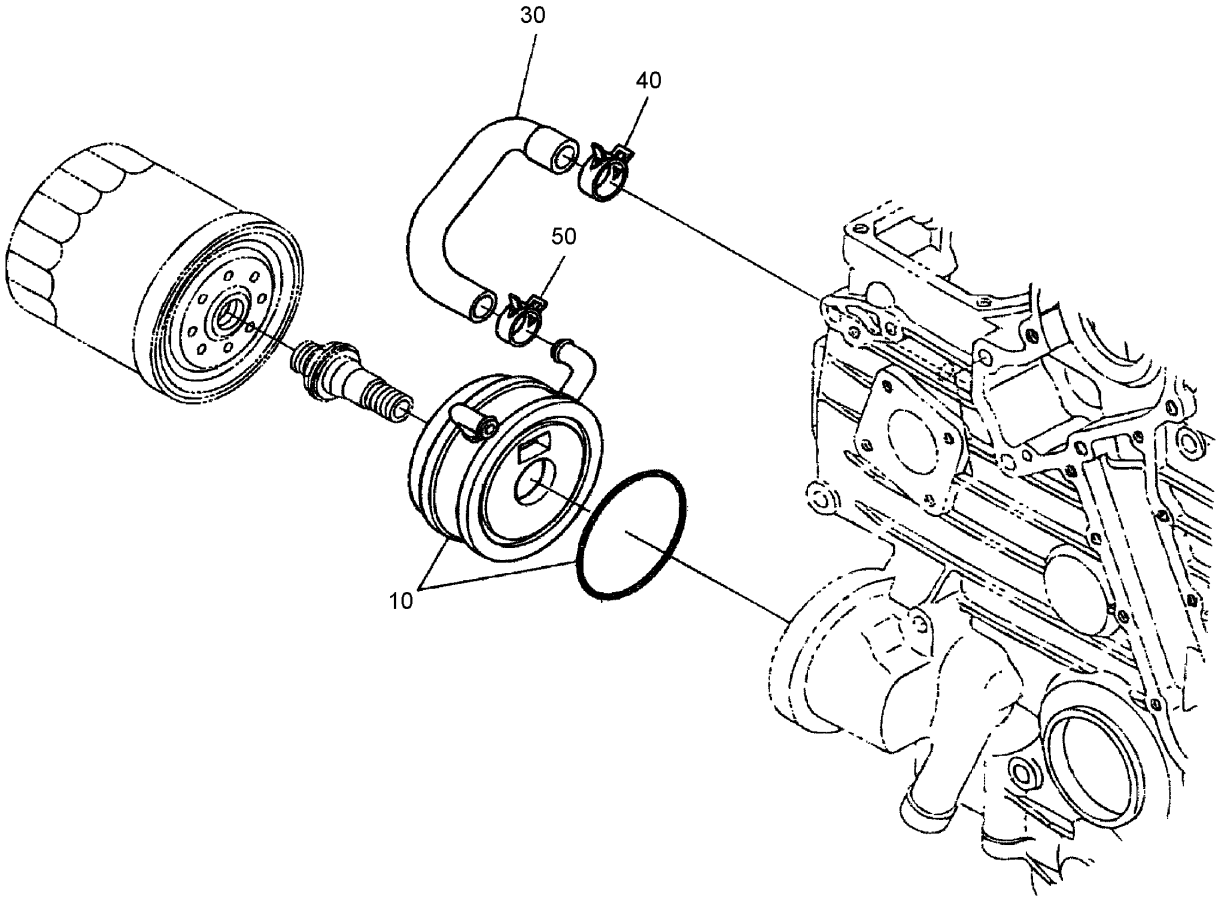

# Turbo Charger Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 108-7093 | 1 | Turbo Charger ASM |
| 20 | 100-9314 | 1 | Gasket |
| 30 | 99-8342 | 4 | Stud |
| 40 | 98-7534 | 4 | Nut |
| 50 | 105-2893 | 4 | Washer-Spring |
| 60 | 108-7094 | 1 | Flange-Muffler |
| 70 | 100-9316 | 1 | Gasket |
| 90 | 98-7697 | 4 | Bolt |
| 100 | 100-9230 | 1 | Bolt |
| 110 | 100-9318 | 1 | Hose-Inlet |
| 120 | 100-9319 | 1 | Band-Pipe |
| 130 | 99-8322 | 1 | Band-Pipe |



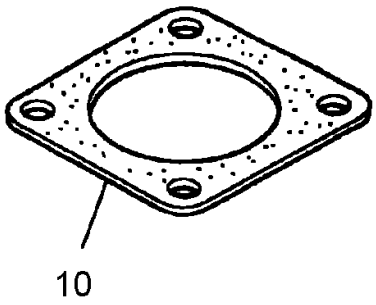

# Oil Pipe (Turbo Charger) Assembly

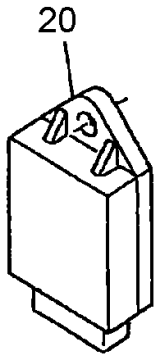
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 107-0127 | 1 | Pipe-Oil, Complete |
| 20 | 100-9321 | 1 | Bolt-Joint, Eye |
| 30 | 98-7428 | 2 | Gasket |
| 40 | 98-9418 | 1 | Bolt-Joint, Eye |
| 50 | 99-8346 | 2 | Gasket |
| 60 | 107-0128 | 1 | Pipe-Oil, Complete |
| 70 | 98-9435 | 1 | Gasket-Oil Return, Turbo |
| 80 | 98-7605 | 2 | Bolt |
| 90 | 100-9323 | 1 | Pipe-Oil |
| 100 | 108-7095 | 1 | Tube-Oil |
| 110 | 98-9714 | 2 | Clamp-Hose |
| 120 | 108-7096 | 1 | Clamp-Pipe |
| 130 | 98-9591 | 1 | Pin-Band |




# Oil Cooler Assembly

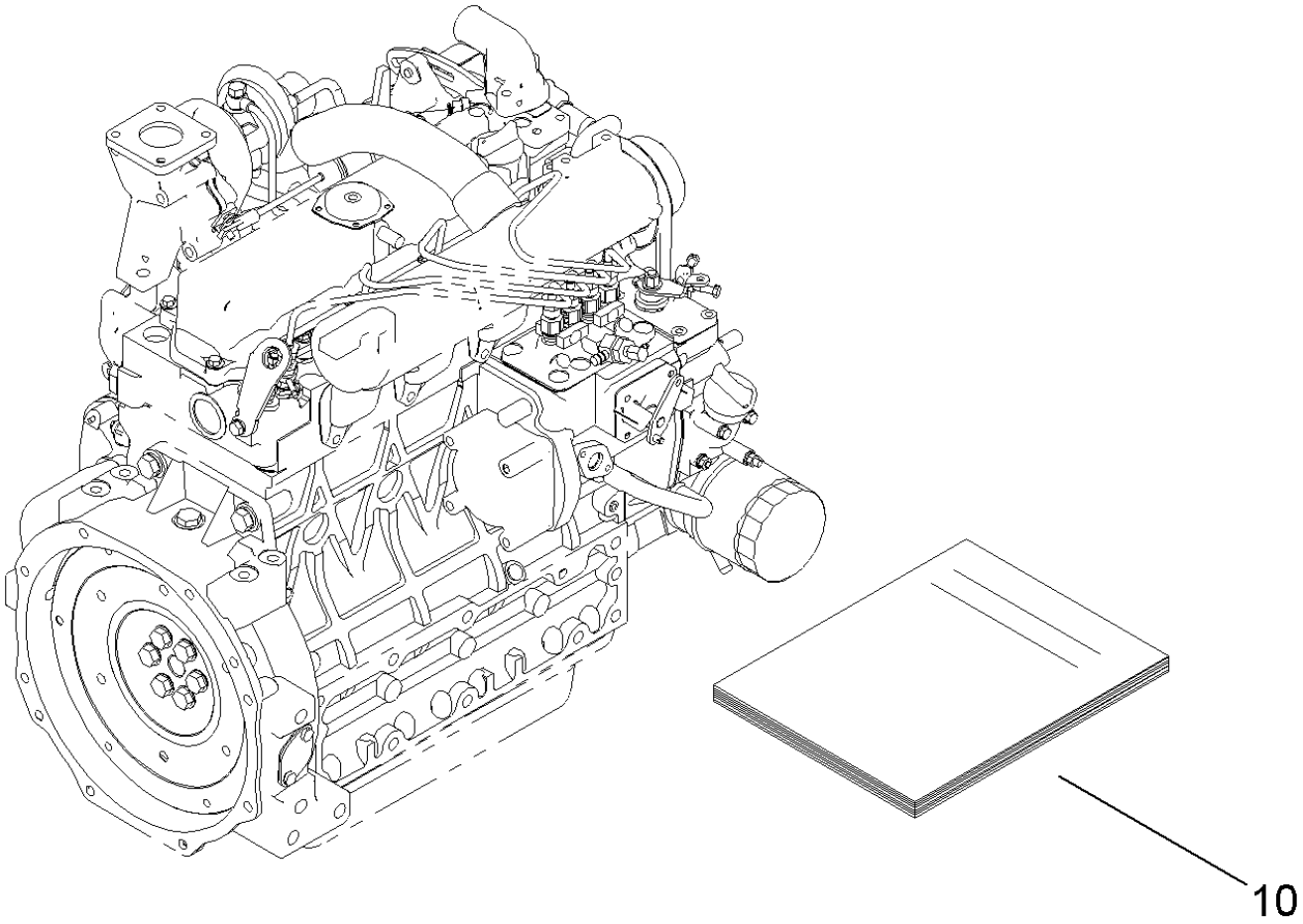
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 107-0125 | 1 | Oil Cooler ASM |
| 30 | 107-0126 | 1 | Hose-Cooler, Oil |
| 40 | 105-2879 | 1 | Clamp-Hose |
| 50 | 98-9579 | 1 | Band-Pipe |



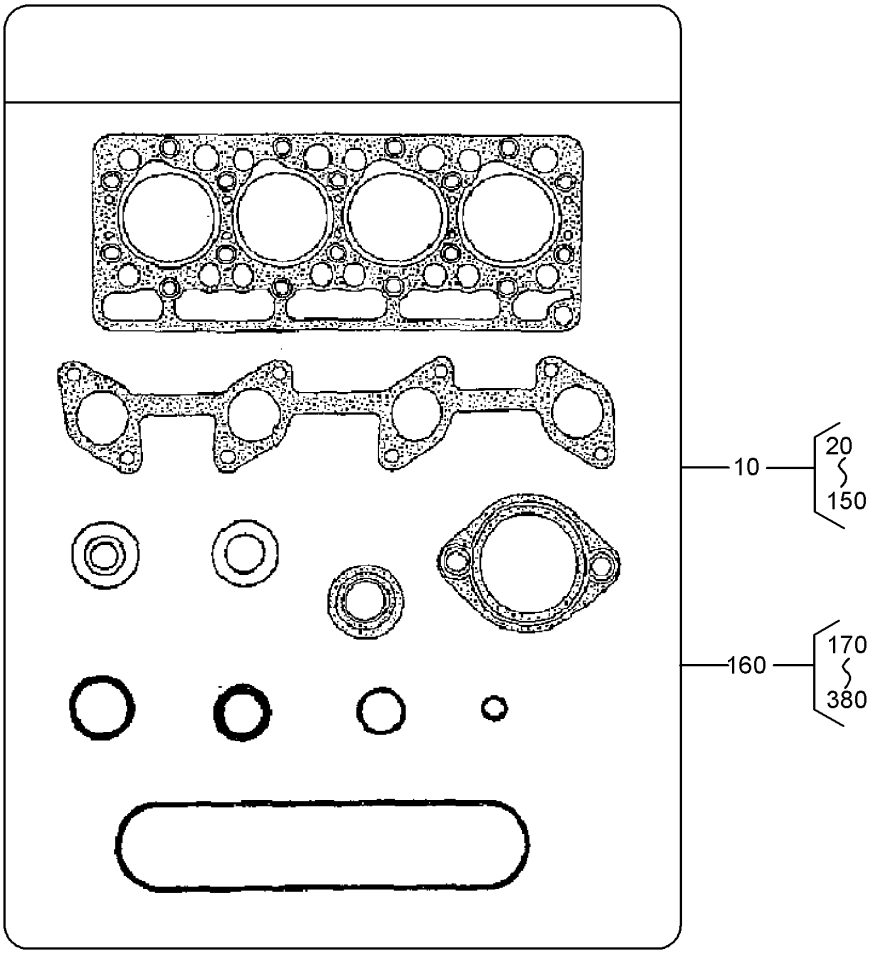

# Muffler Gasket and Glow Controller

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9333 | 1 | Gasket-Muffler |
| 20 | 98-7611 | 1 | Controller-Glow |




# Engine Operators Manual

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9335 | 1 | Manual-Instruction |




# Gasket Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9337 | 1 | Upper Gasket Kit |
| 160 | 98-7888 | 1 | Lower Gasket Kit |

# Attachments and Accessories

## For 30856 - Groundsmaster 4500-D Traction Unit

| Product Name | Model/Part |
|---|---|
| Roller Scraper Kit | 104-5168 |
| Blade-Lift, High | 105-4089-03 |
| Blade-Sail, Angle | 105-9810-03 |
| Blade-Atomic | 107-0235-03 |
| Seat Suspension Kit | 30395 |
| Standard Seat Kit | 30398 |
| Arm Rest Kit | 30707 |
| 27 Inch Rotary Cutting Unit | 30827 |
| 27 Inch Rotary Cutting Unit Mulching Kit | 30828 |
| Flow Divider Kit | 30830 |

# NOTES

# NOTES


TORO®