Form No. 3362-474 Rev B

TORO®

Count on it.

Parts Catalog

# Groundsmaster® 4700-D

## Traction Unit

**Model No. 30858—Serial No. 290000001 and Up**

CE

Register at www.Toro.com.

Original Instructions (EN)

# 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 illustration and in parts 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.

# List of Abbreviations

**AR:** as required

**ASM:** assembly

**BBC:** blade brake control

**BHTF:** button head thread forming

**CARR:** carriage

**CCW:** counter clockwise

**CW:** clockwise

**DEG:** degrees

**DPA:** Dual Point Adjustment

**ECM:** electronic control module

**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

**LP:** Liquid Propane

**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

**RRB:** rear roller brush

**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

© 2011—The Toro® Company
8111 Lyndale Avenue South
Bloomington, MN 55420

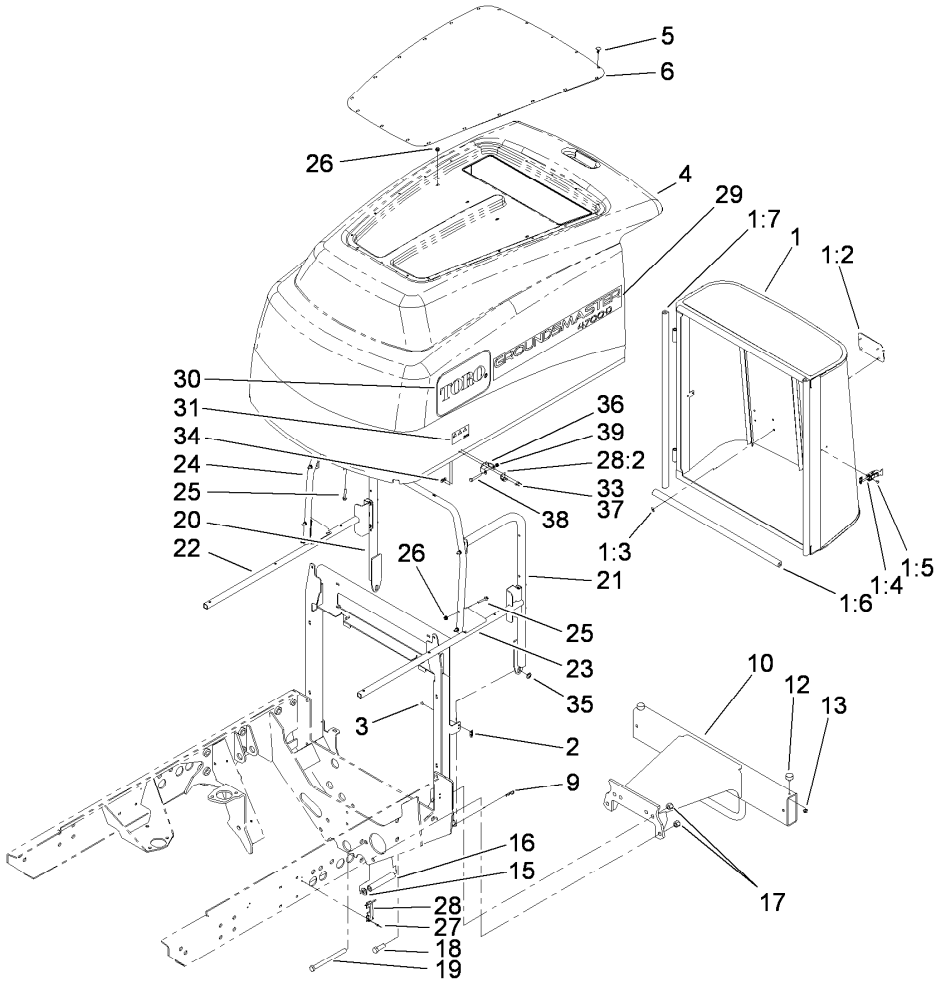


Contact us at www.Toro.com.
Printed in the USA.
All Rights Reserved

# Contents


Hood, Screen and Bumper Assembly . . . . . 5
Steering Tower and Brake Pedal Assembly . . . . . 6
Steering Tilt Column Assembly No. 106-3622 . . . . . 7
Steering Valve Assembly No. 114-8119 . . . . . 8
Traction Pedal Assembly . . . . . 9
Seat and Seat Frame Assembly . . . . . 10
Air Ride Seat Suspension Assembly Model No. 30621 . . . . . 11
Premium Seat Assembly Model No. 30622 . . . . . 13
Control Console Assembly . . . . . 14
Hydraulic Filter and Reservoir Assembly . . . . . 15
Fuel Tank and Filter Assembly . . . . . 16
Front Drive and Brake Assembly . . . . . 17
Planetary Assembly No. 105-4500-03 . . . . . 18
Brake Assembly No. 100-3070-03 . . . . . 19
Piston Motor Assembly No. 105-1218 . . . . . 20
Brake Assembly No. 100-3069-03 . . . . . 21
Fan Plumbing Assembly . . . . . 22
Hydraulic Pump Assembly . . . . . 23
Piston Pump Assembly No. 114-4188 . . . . . 24
Control Assembly No. 115-4446 . . . . . 25
Four Section Pump Assembly No. 114-4189 . . . . . 26
Radiator Assembly . . . . . 27
Fan and Motor Assembly . . . . . 28
Hydraulic Motor Assembly No. 117-4769 . . . . . 29
Engine Installation Assembly . . . . . 30
Rear Axle Assembly . . . . . 31
Bevel Pinion Shaft Assembly Rear Axle Assembly No. 110-4750 . . . . . 32
Differential Assembly Rear Axle Assembly No. 110-4750 . . . . . 33
Axle Support Assembly Rear Axle Assembly No. 110-4750 . . . . . 34
Bevel Gear Case Assembly Rear Axle Assembly No. 110-4750 . . . . . 35
Bevel Gear Shaft Assembly Rear Axle Assembly No. 110-4750 . . . . . 36
Axle Case Assembly Rear Axle Assembly No. 110-4750 . . . . . 37
Axle Assembly Rear Axle Assembly No. 110-4750 . . . . . 38
Hydraulic Cylinder Assembly No. 105-9861 . . . . . 39
Piston Motor Assembly No. 105-1219 . . . . . 40
Flywheel Coupler Assembly . . . . . 41
Power Center, Battery and Storage Box Assembly . . . . . 42
Battery Storage Box Assembly No. 115-9100 . . . . . 43
Storage Box Assembly No. 115-9101 . . . . . 44
Front Lift Arm Assembly . . . . . 45
Hydraulic Cylinder Assembly No. 107-1979 . . . . . 46
Hydraulic Cylinder Assembly No. 107-1980 . . . . . 47
Air Cleaner and Manifold Assembly . . . . . 48
Fan Drive Manifold Assembly No. 117-2395 . . . . . 49
Air Cleaner Assembly No. 99-5410 . . . . . 50
No. 2 and 3 Lift Arm Assembly . . . . . 51
Hydraulic Cylinder Assembly No. 107-1978 . . . . . 52
No. 2 and 3 Hose Installation Assembly . . . . . 53
No. 1, 4 and 5 Hose Installation Assembly . . . . . 54
Hydraulic Motor Assembly No. 105-9872 . . . . . 55
No. 6 and 7 Hose Installation Assembly . . . . . 56
No. 6 and 7 Lift Arm Assembly . . . . . 57
Hydraulic Cylinder Assembly No. 107-1981 . . . . . 59
Roll-Over Protection System and Front Frame Assembly . . . . . 60

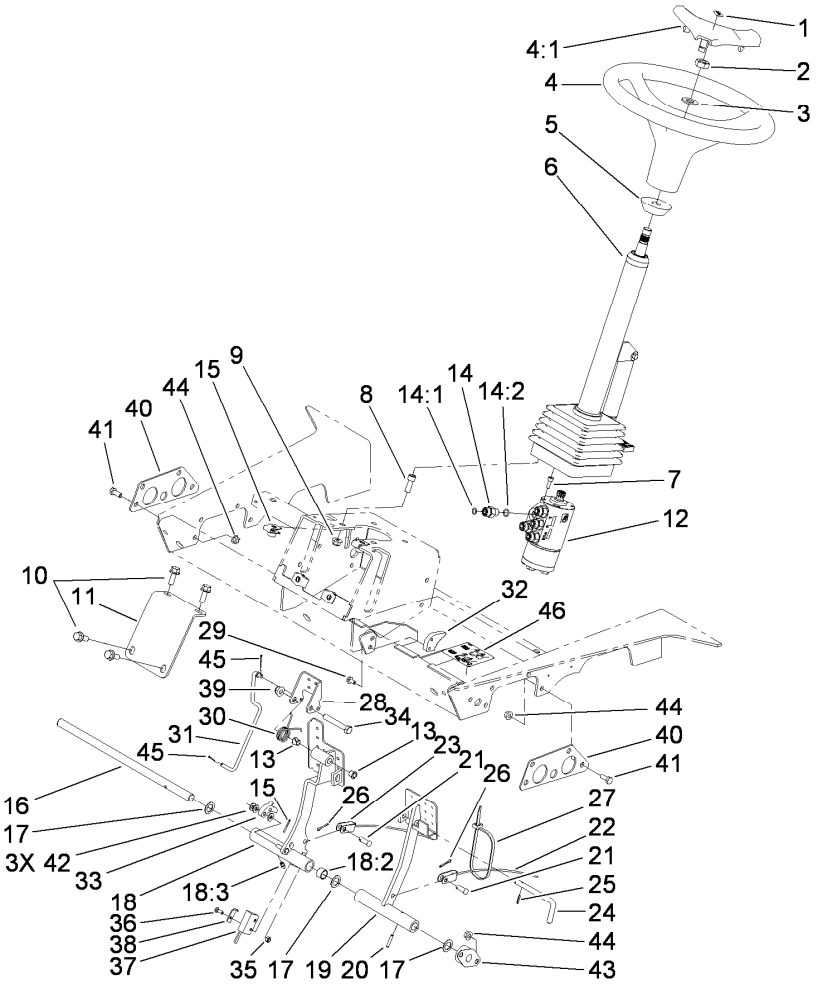
Front Frame Assembly No. 115-4392 . . . . . 61
Front Shroud and Work Light Assembly . . . . . 62
Manifold and Filter Assembly . . . . . 63
Mow Manifold Assembly No. 117-2393 . . . . . 64
Mow Manifold Assembly . . . . . 65
Lift Manifold Assembly No. 117-2389 . . . . . 66
Lift Manifold Assembly . . . . . 67
4-Wheel Drive Manifold and Filter Assembly . . . . . 68
Filter Manifold Assembly No. 117-2391 . . . . . 69
Filter Manifold Assembly . . . . . 70
4-Wheel Drive Manifold Assembly No. 117-2390 . . . . . 71
4-Wheel Drive Manifold Assembly . . . . . 72
Junction Manifold Assembly No. 117-2394 . . . . . 73
Junction Manifold Assembly . . . . . 74
Traction Hydraulic Lines Assembly . . . . . 75
Mow Hydraulic Line Assembly . . . . . 76
Hydraulic Steering Assembly . . . . . 77
Lift Cylinder Line Assembly . . . . . 78
Crankcase Assembly . . . . . 79
Oil Pan Assembly . . . . . 80
Cylinder Head Assembly . . . . . 81
Gear Case Assembly . . . . . 82
Cylinder Head Cover Assembly . . . . . 83
Oil Filter Assembly . . . . . 84
Dipstick and Guide Assembly . . . . . 85
Oil Pump Assembly . . . . . 86
Main Bearing Case Assembly . . . . . 87
Cam Shaft and Idle Gear Assembly . . . . . 88
Piston and Crankshaft Assembly . . . . . 89
Flywheel Assembly . . . . . 90
Fuel Camshaft and Governor Shaft Assembly . . . . . 91
Idle Apparatus and Stop Solenoid Assembly . . . . . 92
Injection Pump Assembly . . . . . 93
Governor Assembly . . . . . 94
Speed Control Plate Assembly . . . . . 95
Nozzle Holder and Glow Plug Assembly . . . . . 96
Alternator and Pulley Assembly . . . . . 97
Alternator Component Part Assembly . . . . . 98
Starter Assembly . . . . . 99
Starter Components Assembly . . . . . 100
Water Flange and Thermostat Assembly . . . . . 101
Water Pump Assembly . . . . . 102
Valve and Rocker Arm Assembly . . . . . 103
Inlet and Exhaust Manifold Assembly . . . . . 104
Turbo Charger Assembly . . . . . 105
Oil Pipe (Turbo Charger) Assembly . . . . . 106
Oil Cooler Assembly . . . . . 107
Muffler Gasket, Glow Controller and Operator Manual . . . . . 108
Upper Gasket Kit . . . . . 109
Lower Gasket Kit . . . . . 110
Attachments and Accessories . . . . . 111




# Hood, Screen and Bumper Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 115-4362 | 1 | Screen ASM |
| 1:2 | 93-6028 | 1 | Plate-Logo |
| 1:3 | 94-2638 | 4 | Nut-Tinnerman |
| 1:4 | 114-8117 | 1 | Latch-Adjustable |
| 1:5 | 3269-3 | 2 | Rivet-Pop |
| 1:6 | 115-4358 | 2 | Seal-Bulb |
| 1:7 | 115-4359 | 2 | Seal-Bulb |
| 2 | 115-4357 | 1 | Latch-Keeper |
| 3 | 3269-3 | 2 | Rivet-Pop |
| 4 | 117-4767 | 1 | Hood ASM |
| 5 | 117-2382 | 20 | Plug-Plastic |
| 6 | 114-4192-03 | 1 | Screen-Hood |
| 9 | 3290-467 | 2 | Pin-Hair |
| 10 | 105-9221-03 | 1 | Bumper-Rear |
| 12 | 240-14 | 2 | Bumper-Rubber |
| 13 | 32128-33 | 2 | Nut-HF |
| 15 | 3256-26 | 2 | Washer-Flat |
| 16 | 76-8350 | 2 | Stop-Axle |
| 17 | 3296-23 | 4 | Nut-Lock, NI |
| 18 | 325-6 | 2 | Screw-HH |
| 19 | 325-33 | 2 | Screw-HH |

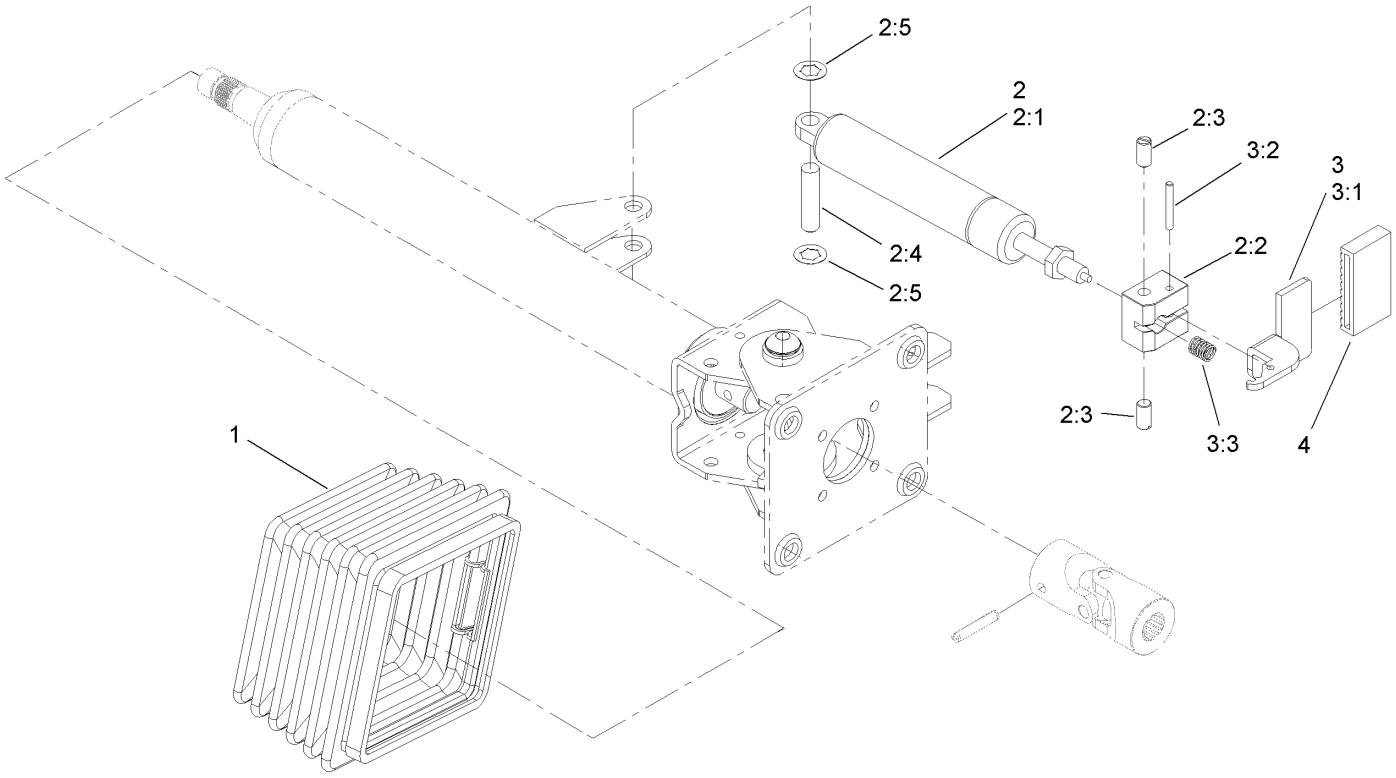
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 20 | 114-8108-03 | 1 | Tube-RH |
| 21 | 114-8109-03 | 1 | Tube-LH |
| 22 | 117-2358-03 | 1 | Tube-Hood, RH |
| 23 | 114-8102-03 | 1 | Tube |
| 24 | 115-9118-03 | 1 | Tube-Frame, Hood |
| 25 | 94-5781 | 26 | Screw-HHF |
| 26 | 104-7201 | 26 | Nut-HF |
| 27 | 3290-55 | 4 | Rivet-Pop |
| 28 | 59-9740 | 2 | Flex Draw Latch ASM |
| 28:2 | 249-40 | 1 | Keeper |
| 29 | 105-9876 | 2 | Decal |
| 30 | 66-1210 | 2 | Decal |
| 31 | 106-6754 | 2 | Decal-Danger |
| 33 | 3269-17 | 4 | Rivet-Pop |
| 34 | 3269-10 | 4 | Washer-Back |
| 35 | 98-1629 | 2 | Washer |
| 36 | 117-4791 | 1 | Bracket-Lock, Ce |
| 37 | 107-0333 | 2 | Rivet-Pop |
| 38 | 321-11 | 1 | Screw-HH |
| 39 | 3296-56 | 1 | Nut-Lock, NI |




# Steering Tower and Brake Pedal Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 98-1459 | 1 | Decal |
| 2 | 3296-33 | 1 | Nut-Lock, NI |
| 3 | 3256-27 | 1 | Washer-Flat |
| 4 | 98-1471 | 1 | Wheel-Steering |
| 4:1 | 98-1468 | 1 | Cover-Wheel, Steering |
| 5 | 93-5429 | 1 | Collar-Foam |
| 6 | 106-3622 | 1 | Steering Tilt Column ASM |
| 7 | 105-2409 | 4 | Screw-HSH |
| 8 | 3274-7 | 4 | Screw-HSH |
| 9 | 104-8301 | 4 | Nut-Flange, NI |
| 10 | 3234-11 | 4 | Screw-HHF |
| 11 | 115-4379-01 | 1 | Brace-Column |
| 12 | 114-8119 | 1 | Steering Valve ASM |
| 13 | 52-2891 | 2 | Bushing-Flanged, Nylon |
| 14 | 340-2 | 5 | Fitting-HYD, Straight |
| 14:1 | 237-22 | 1 | O-Ring |
| 14:2 | 237-42 | 1 | O-Ring |
| 15 | 112-4576 | 4 | Nut-Clip, U |
| 16 | 75-1470 | 1 | Pin-Pivot, Brake |
| 17 | 3256-69 | 3 | Washer-Flat |
| 18 | 115-4435 | 1 | RH Brake Pedal ASM |
| 18:2 | 256-42 | 2 | Bushing |
| 18:3 | 302-5 | 1 | Fitting-Grease |
| 19 | 115-4421-03 | 1 | LH Brake Pedal ASM |
| 20 | 32121-16 | 1 | Pin-Spring |
| 21 | 283-58 | 2 | Pin-Clevis |

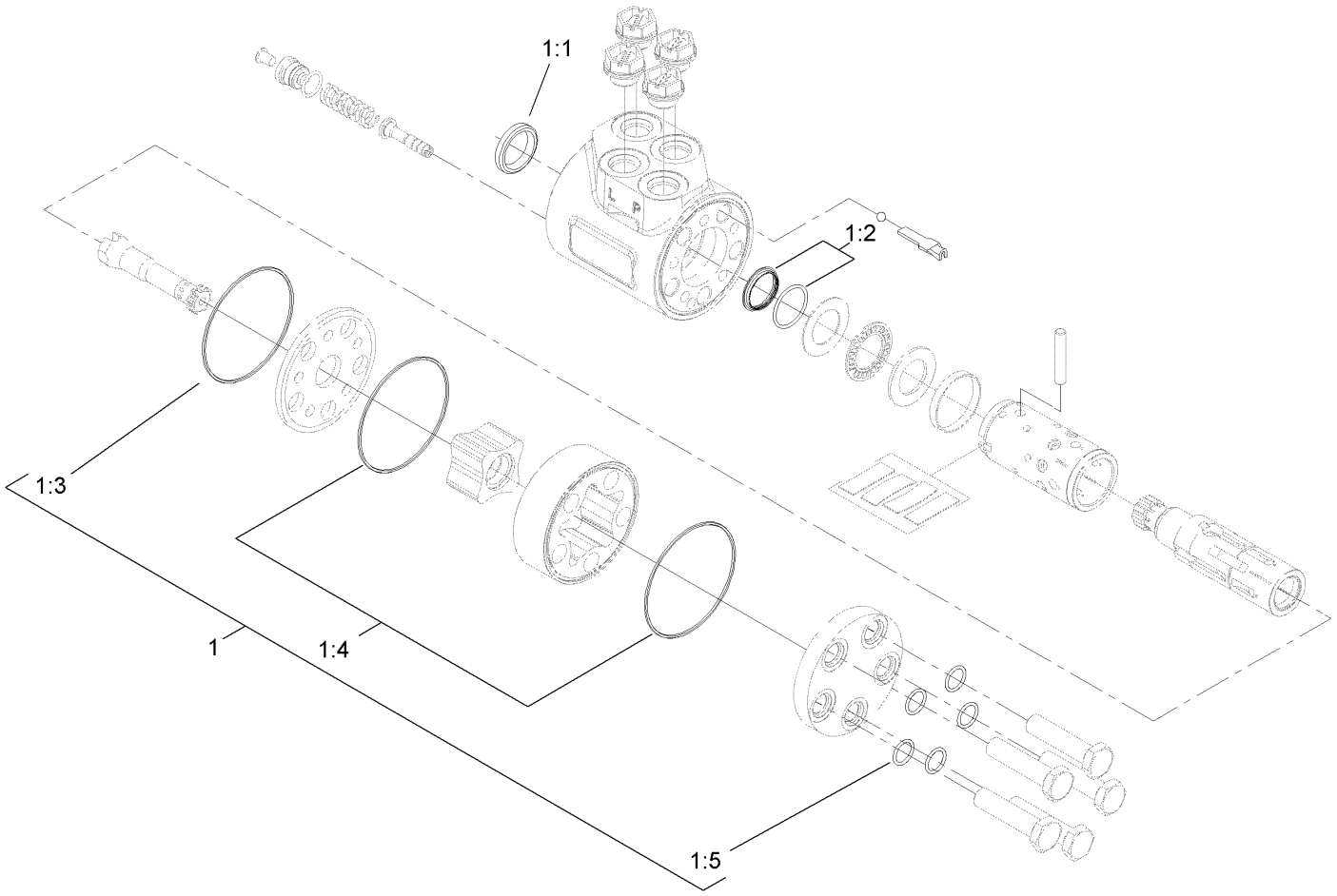
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 22 | 92-7530 | 1 | LH Brake Cable ASM |
| 23 | 92-7529 | 1 | RH Brake Cable ASM |
| 24 | 63-7880 | 1 | Pin-Latch, Brake |
| 25 | 32121-50 | 1 | Pin-Spring |
| 26 | 3272-10 | 2 | Pin-Cotter |
| 27 | 3290-378 | 1 | Tie-Cable |
| 28 | 99-7963-03 | 1 | Pedal-Park |
| 29 | 3234-13 | 2 | Screw-HHF |
| 30 | 99-7140 | 1 | Spring-Torsion |
| 31 | 115-4417 | 1 | Rod-Brake Pawl |
| 32 | 115-4414 | 1 | Pawl-Brake |
| 33 | 115-4413 | 1 | Detent-Brake |
| 34 | 323-12 | 1 | Screw-HH |
| 35 | 3296-2 | 1 | Nut-Lock, NI |
| 36 | 3229-34 | 1 | Screw-CARR |
| 37 | 100-1270 | 1 | Switch-Proximity |
| 38 | 100-4872 | 1 | Plate-Switch, Neutral |
| 39 | 104-8301 | 1 | Nut-Flange, NI |
| 40 | 106-7794-01 | 2 | Plate-Mount, HYD Fitting |
| 41 | 322-3 | 10 | Screw-HH |
| 42 | 3256-22 | 3 | Washer-Flat |
| 43 | 256-236 | 2 | Bearing-Mount, Flange |
| 44 | 32128-20 | 10 | Nut-HF |
| 45 | 3272-4 | 3 | Pin-Cotter |
| 46 | 117-4763 | 1 | Decal-Brake |




# Steering Tilt Column Assembly No. 106-3622

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 110-6462 | 1 | Bellows-Rubber |
| 2 | 110-6463 | 1 | Cylinder Service Kit |
| 2:1 | | 1 | Cylinder-Gas ● |
| 2:2 | | 1 | Block-Pedal ● |
| 2:3 | | 2 | Bolt ● |
| 2:4 | | 1 | Pin ● |
| 2:5 | | 2 | Washer-Lock ● |
| 3 | 110-6464 | 1 | Pedal Service Kit |
| 3:1 | | 1 | Pedal ● |
| 3:2 | | 1 | Pin ● |
| 3:3 | | 1 | Spring ● |
| 4 | 110-6465 | 1 | Cover-Pedal |

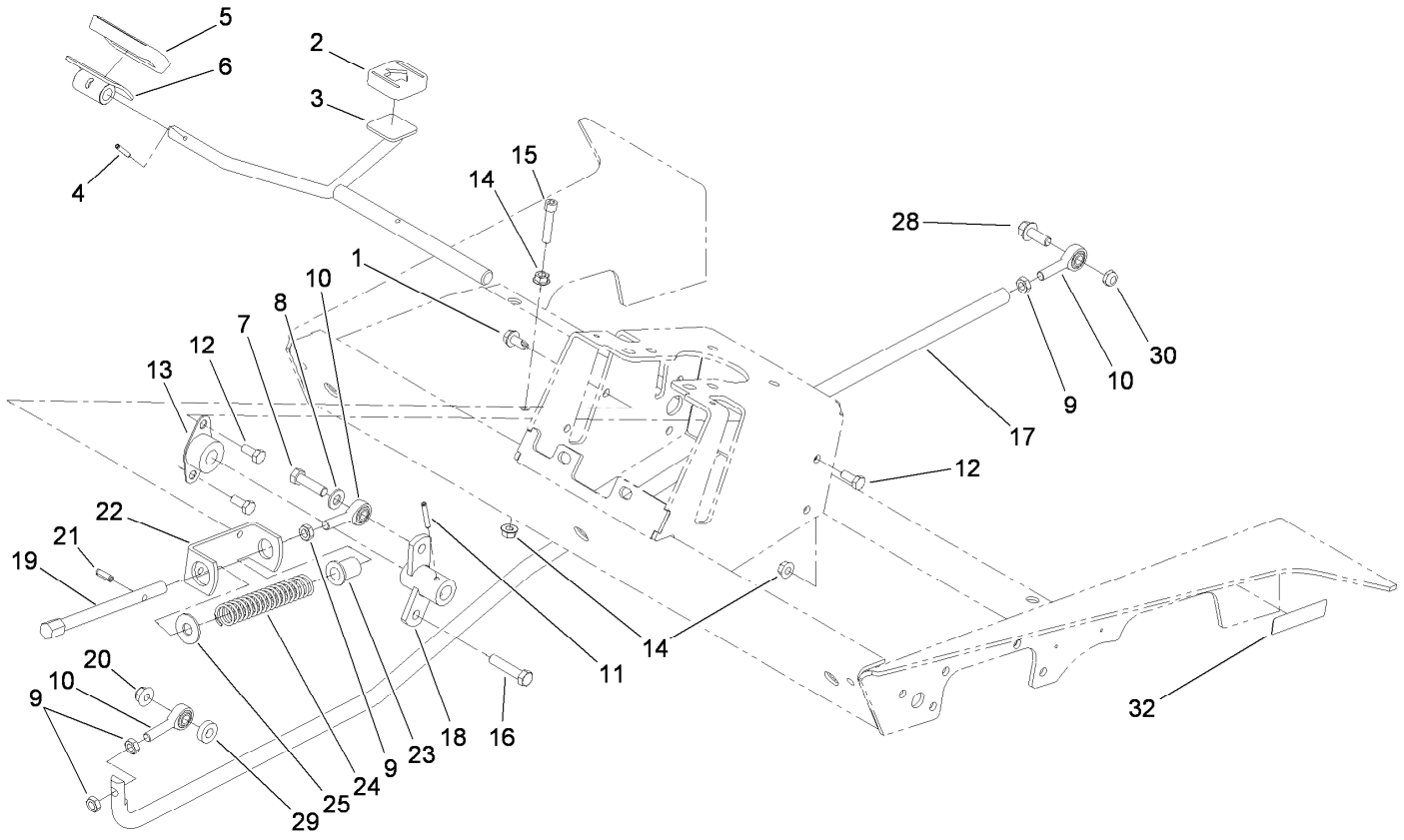
● Not serviced separately




# Steering Valve Assembly No. 114-8119

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 106-6716 | 1 | Seal Kit |
| 1:1 | | 1 | Ring-Seal, Dust ● |
| 1:2 | | 1 | Seal-Shaft ● |
| 1:3 | | 1 | O-Ring ● |
| 1:4 | | 2 | O-Ring ● |
| 1:5 | | 5 | O-Ring ● |

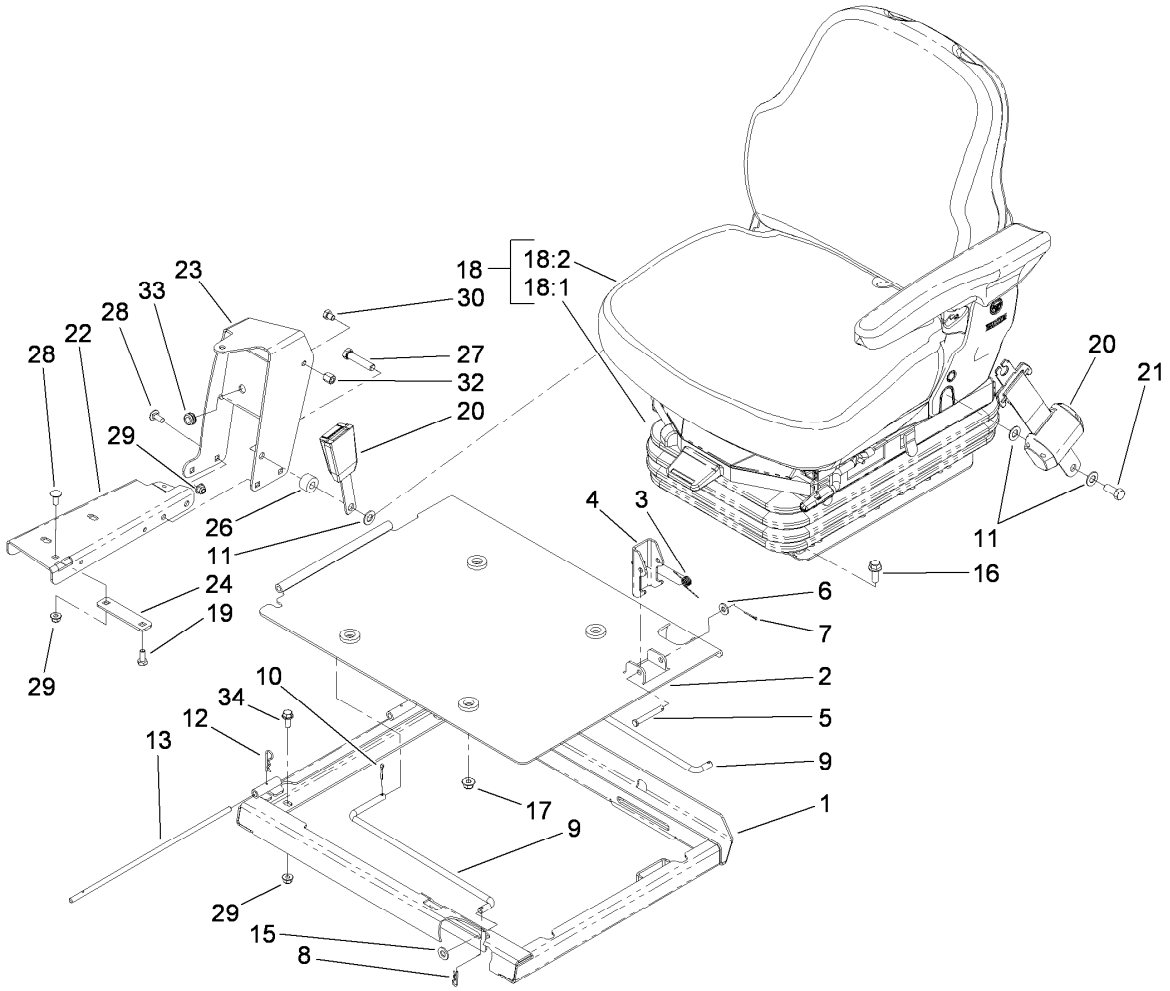
● Not serviced separately




# Traction Pedal Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 32104-32 | 2 | Screw-HWH |
| 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 | 1 | Washer-Flat |
| 9 | 3220-3 | 4 | Nut-HJ |
| 10 | 2411-36 | 3 | Bearing-End, Rod |
| 11 | 32121-6 | 1 | Pin-Roll, Slotted |
| 12 | 322-3 | 4 | Screw-HH |
| 13 | 256-236 | 2 | Bearing-Mount, Flange |
| 14 | 32128-20 | 6 | Nut-HF |
| 15 | 3274-83 | 1 | Screw-HSH |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 16 | 323-8 | 1 | Screw-HH |
| 17 | 117-4794-03 | 1 | Rod-Traction |
| 18 | 115-4380-03 | 1 | Traction Hub Pivot ASM |
| 19 | 115-4383 | 1 | Shaft-Spring |
| 20 | 104-8301 | 2 | Nut-Flange, 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 |
| 25 | 3256-5 | 1 | Washer-Flat |
| 28 | 3234-11 | 1 | Screw-HHF |
| 29 | 5-0652 | 1 | Spacer |
| 30 | 3296-59 | 1 | Nut-Lock, NI |
| 32 | 117-2718 | 1 | Decal-Arrester, Spark |




# Seat and Seat Frame Assembly

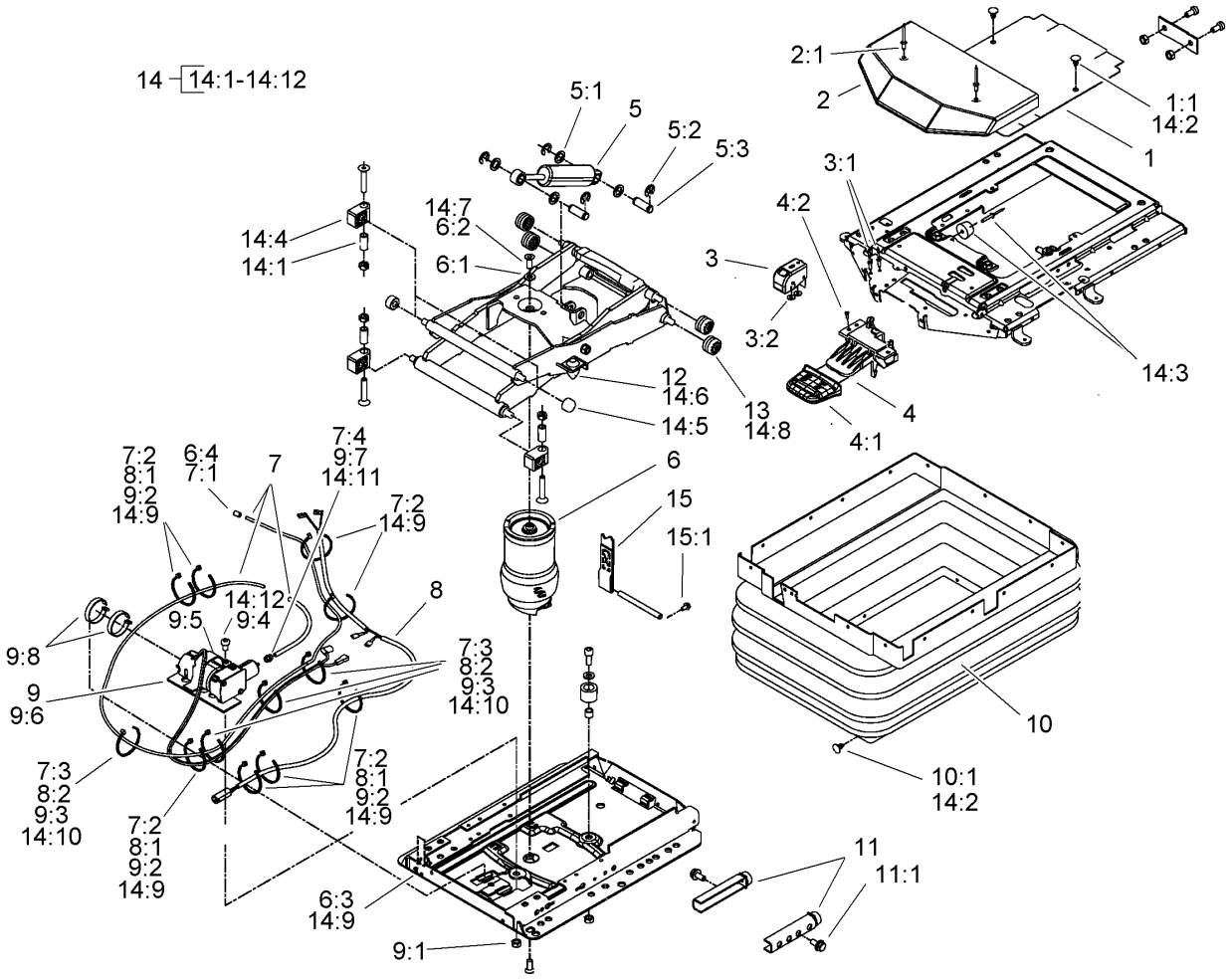
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 115-4400-03 | 1 | Seat Frame ASM |
| 2 | 115-4411-03 | 1 | Seat Plate ASM |
| 3 | 104-4821 | 1 | Spring-Torsion |
| 4 | 115-4423-03 | 1 | Latch-Seat Plate |
| 5 | 110-0618 | 1 | Pin-Clevis |
| 6 | 3256-2 | 1 | Washer-Flat |
| 7 | 3272-6 | 1 | Pin-Cotter |
| 8 | 3290-307 | 2 | Pin-Hair |
| 9 | 117-4797-03 | 2 | Rod-Seat Frame |
| 10 | 3272-10 | 2 | Pin-Cotter |
| 11 | 3256-25 | 3 | Washer-Flat |
| 12 | 3290-467 | 1 | Pin-Hair |
| 13 | 75-3400 | 1 | Shaft-Pivot, Seat |
| 15 | 3256-24 | 2 | Washer-Flat |
| 16 | 3234-42 | 4 | Screw-HHF |
| 17 | 104-8301 | 4 | Nut-Flange, NI |
| 18 | 108-1518 | 1 | Seat And Suspension ASM |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 18:1 | | 1 | Seat Suspension ASM ●■ |
| 18:2 | | 1 | Seat-Premium ●▲ |
| 19 | 322-3 | 1 | Screw-HH |
| 20 | 110-0413 | 1 | Seatbelt-Retractable |
| 21 | 3212-4 | 1 | Screw-HH |
| 22 | 112-7437-03 | 1 | Channel-Support |
| 23 | 112-7446-03 | 1 | Support-Arm |
| 24 | 112-7449-03 | 1 | Bracket-Support |
| 26 | 17-7190 | 1 | Spacer-Finger |
| 27 | 3212-8 | 1 | Screw-HH |
| 28 | 3230-23 | 5 | Screw-CARR |
| 29 | 104-8300 | 9 | Nut-Flange, NI |
| 30 | 108-8646 | 1 | Screw-HH, Lock |
| 32 | 112-7405 | 1 | Nut-Hex, Coupling |
| 33 | 237-136 | 1 | Grommet |
| 34 | 3234-47 | 4 | Screw-HHF |

● Not serviced separately

▲ Serviced under Model Number 30622

■ Serviced under Model Number 30621

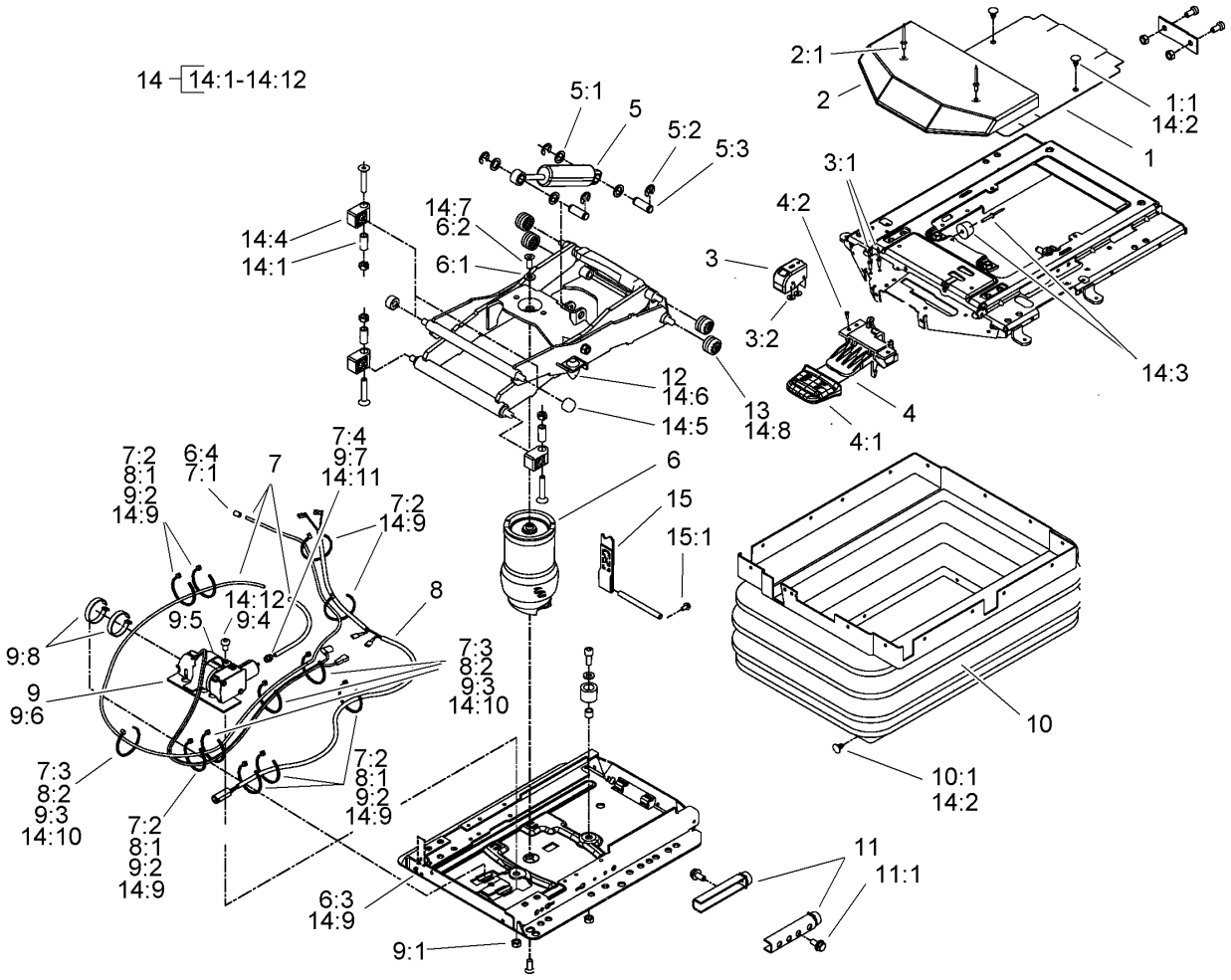



# Air Ride Seat Suspension Assembly Model No. 30621

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 108-8026 | 1 | Cover ASM |
| 1:1 | 39-5710 | 2 | Plug-Plastic |
| 2 | 108-8027 | 1 | Cover ASM |
| 2:1 | | 2 | Rivet ■ |
| 3 | 108-8028 | 1 | Level Control Kit |
| 3:1 | | 2 | Rivet ■ |
| 3:2 | | 2 | Washer ■ |
| 4 | 108-8029 | 1 | Air Control Valve ASM |
| 4:1 | | 1 | Handle ■ |
| 4:2 | | 3 | Screw ■ |
| 5 | 108-8030 | 1 | Shock Absorber Kit |
| 5:1 | | 4 | Washer ■ |
| 5:2 | | 4 | C-Clip ■ |
| 5:3 | | 2 | Pin ■ |
| 6 | 108-8031 | 1 | Air Spring Kit |
| 6:1 | | 1 | Washer ■ |
| 6:2 | | 2 | Screw ■ |
| 6:3 | | 1 | Tie-Wire ■ |
| 6:4 | | 1 | Nipple-Hose ■ |
| 7 | 108-8032 | 1 | Air Tube ASM |
| 7:1 | | 1 | Nipple-Hose ■ |
| 7:2 | | 7 | Tie-Wire ■ |
| 7:3 | | 4 | Tie-Wire ■ |
| 7:4 | | 1 | Nipple-Hose ■ |
| 8 | 108-8033 | 1 | Connecting Cable ASM |
| 8:1 | | 8 | Tie-Wire ■ |
| 8:2 | | 4 | Tie-Wire ■ |
| 9 | 108-8034 | 1 | Compressor Kit |
| 9:1 | | 1 | Nut ■ |
| 9:2 | | 5 | Tie-Wire ■ |
| 9:3 | | 4 | Tie-Wire ■ |
| 9:4 | | 1 | Screw ■ |
| 9:5 | | 1 | Compressor ■ |
| 9:6 | | 1 | Plate-Mounting ■ |
| 9:7 | | 1 | Nipple-Hose ■ |
| 9:8 | | 2 | Clamp ■ |
| 10 | 108-8035 | 1 | Bellows ASM |
| 10:1 | 39-5710 | 23 | Plug-Plastic |
| 11 | 108-8036 | 1 | Stop Kit |
| 11:1 | | 2 | Screw ■ |
| 12 | 107-1213 | 2 | Bumper Set |
| 13 | 108-8037 | 4 | Roller |
| 14 | 108-8038 | 1 | Wear Parts Kit ● |
| 14:1 | | 4 | Spacer ■ |
| 14:2 | 39-5710 | 2 | Plug-Plastic |
| 14:3 | | 1 | Bumper ■ |
| 14:4 | | 4 | Support-Housing ■ |
| 14:5 | | 2 | Roller ■ |
| 14:6 | 107-1213 | 2 | Bumper Set |
| 14:7 | | 2 | Screw ■ |
| 14:8 | 108-8037 | 4 | Roller |
| 14:9 | | 9 | Tie-Wire ■ |

● Not illustrated

■ Not serviced separately

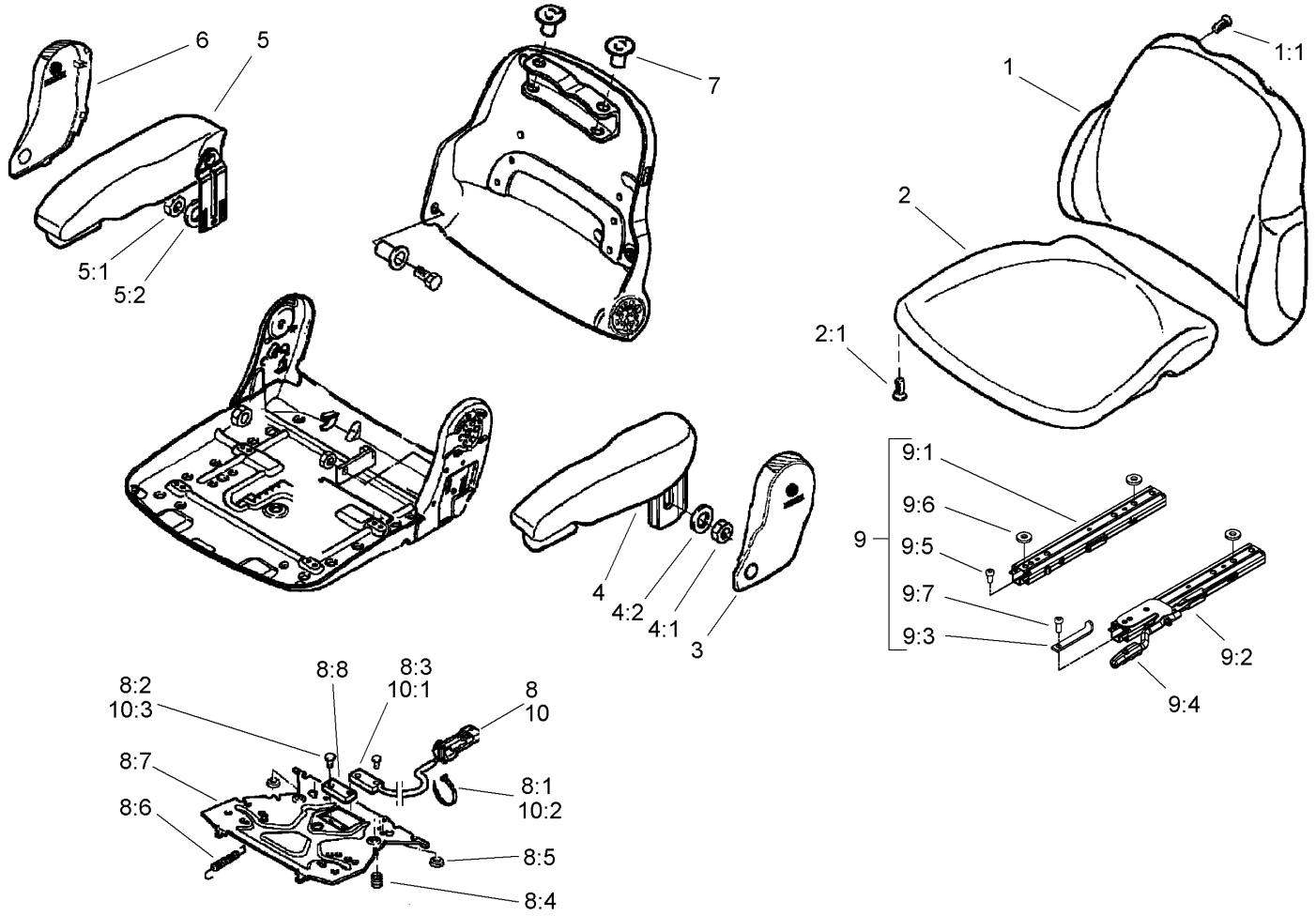



# Air Ride Seat Suspension Assembly Model No. 30621 (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 14:10 | | 4 | Tie-Wire ■ |
| 14:11 | | 1 | Nipple-Hose ■ |
| 14:12 | | 1 | Screw ■ |
| 15 | 108-8023 | 1 | Tether |
| 15:1 | | 4 | Screw ■ |

● Not illustrated

■ Not serviced separately

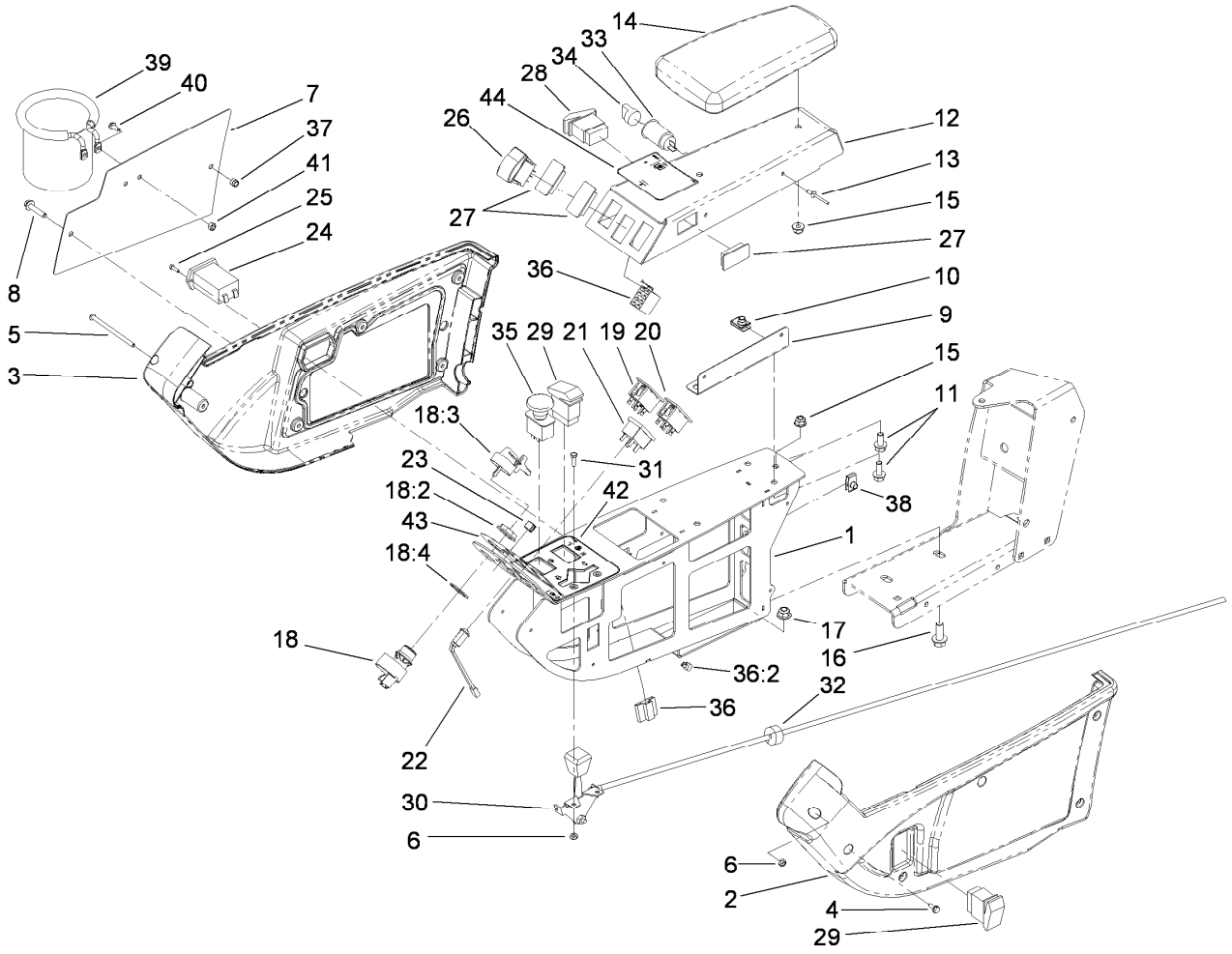



# Premium Seat Assembly Model No. 30622

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 108-8016 | 1 | Backrest Cushion ASM |
| 1:1 | | 3 | Screw ● |
| 2 | 108-8017 | 1 | Seat Cushion ASM |
| 2:1 | | 4 | Screw ● |
| 3 | 108-8018 | 1 | Cover-Armrest |
| 4 | 108-8019 | 1 | LH Armrest ASM |
| 4:1 | 82-9650 | 1 | Nut |
| 4:2 | 107-1198 | 1 | Washer |
| 5 | 108-8020 | 1 | RH Armrest ASM |
| 5:1 | 82-9650 | 1 | Nut |
| 5:2 | 107-1198 | 1 | Washer |
| 6 | 108-8021 | 1 | Cover-Armrest |
| 7 | 108-8022 | 2 | Cover-Black |
| 8 | 108-8024 | 1 | Switch Kit |
| 8:1 | | 3 | Wire Tie ● |
| 8:2 | | 4 | Rivet ● |
| 8:3 | | 1 | Switch ● |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 8:4 | | 2 | Spring ● |
| 8:5 | | 2 | Bumper ● |
| 8:6 | | 1 | Spring-Return ● |
| 8:7 | | 1 | Plate-Mounting ● |
| 8:8 | | 1 | Magnet ● |
| 9 | 108-8025 | 1 | Adjustment Rail Set |
| 9:1 | | 1 | Rail-Adjustment, RH ● |
| 9:2 | | 1 | Rail-Adjustment, LH ● |
| 9:3 | | 1 | Stop-Rail ● |
| 9:4 | | 1 | Handle ● |
| 9:5 | | 3 | Screw ● |
| 9:6 | | 3 | Washer ● |
| 9:7 | | 1 | Screw ● |
| 10 | 110-6189 | 1 | Switch Kit |
| 10:1 | | 1 | Switch ● |
| 10:2 | | 3 | Wire Tie ● |
| 10:3 | | 2 | Rivet ● |

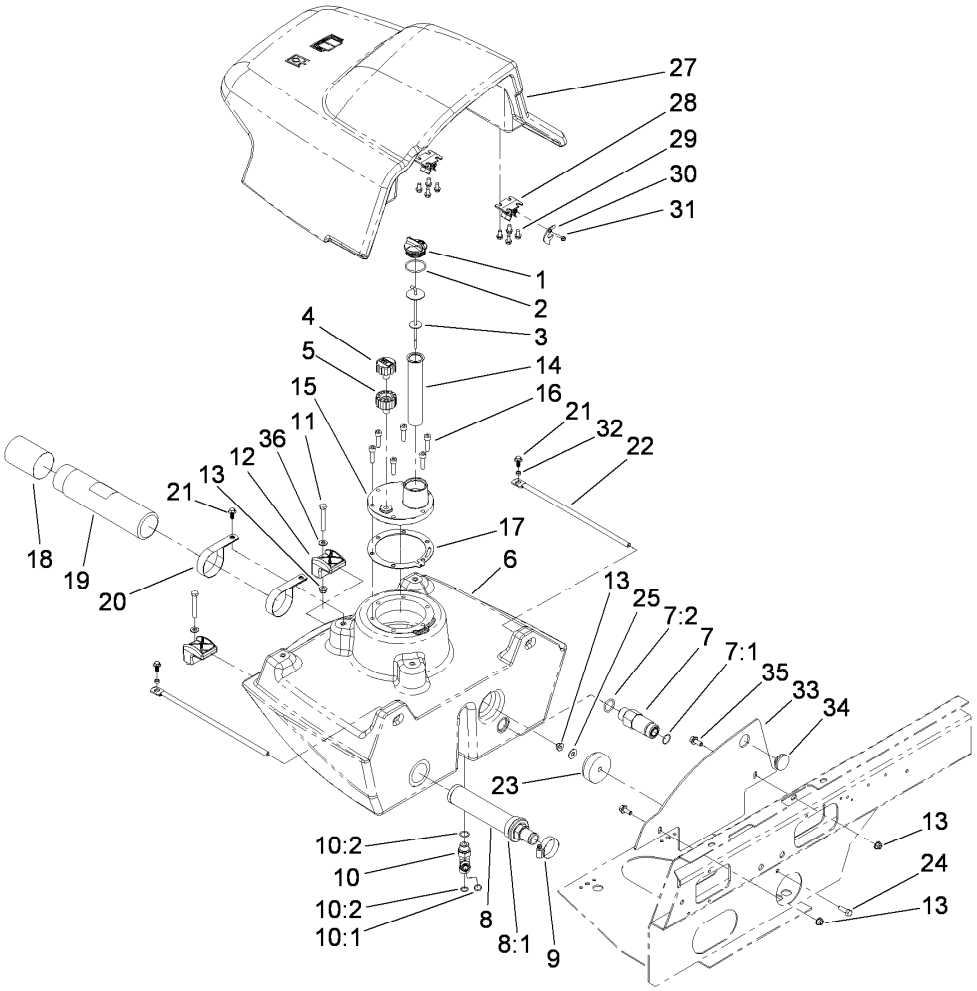
● Not serviced separately




# Control Console Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 115-4430-03 | 1 | Control Arm Frame ASM |
| 2 | 108-7604 | 1 | Cover-LH |
| 3 | 108-7605 | 1 | Cover-RH |
| 4 | 32144-112 | 10 | Screw-HWH |
| 5 | 3250-22 | 1 | Screw-PPH |
| 6 | 3296-12 | 3 | Nut-Lock, NI |
| 7 | 115-8849-03 | 1 | Plate-Cover |
| 8 | 3234-21 | 2 | Screw-HHF |
| 9 | 112-7404 | 1 | Angle-Mounting |
| 10 | 94-2413 | 4 | U-Nut |
| 11 | 3234-5 | 5 | Screw-HHF |
| 12 | 117-2380-03 | 1 | Panel-Switches, Control Arm |
| 13 | 3290-409 | 2 | Rivet |
| 14 | 108-7602 | 1 | Rest-Arm |
| 15 | 104-8300 | 3 | Nut-Flange, NI |
| 16 | 3234-42 | 2 | Screw-HHF |
| 17 | 104-8301 | 2 | Nut-Flange, NI |
| 18 | 106-5269 | 1 | Ignition Switch ASM |
| 18:2 | 108-8660 | 1 | Nut-Mounting |
| 18:3 | 106-5270 | 1 | Key Set-Ignition |
| 18:4 | 108-8659 | 1 | Washer-Backup |
| 19 | 100-8070 | 1 | Lamp-Warning |
| 20 | 100-8071 | 1 | Lamp-Warning |
| 21 | 110-0941 | 1 | Gauge-Temperature |

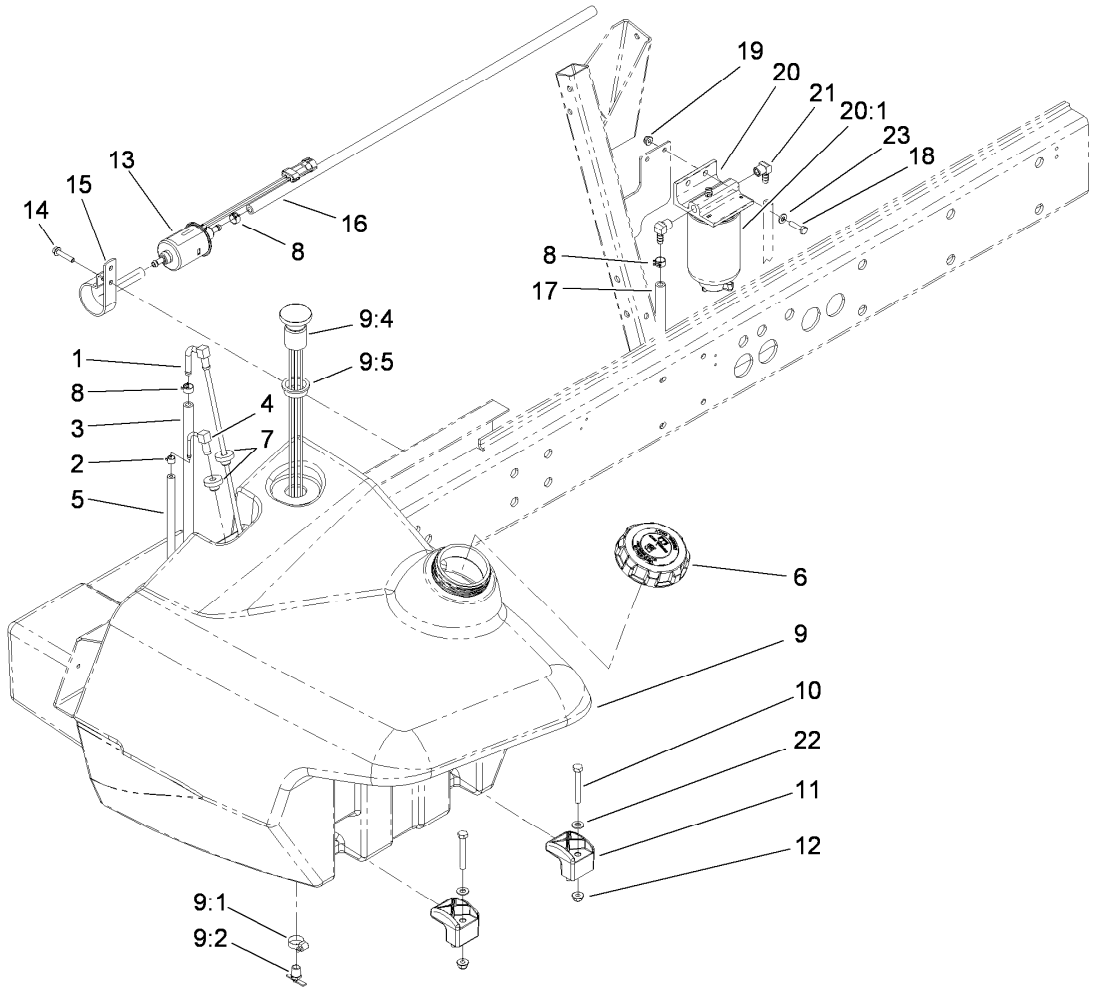
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 22 | 95-7652 | 1 | Light-Indicator |
| 23 | 2410-64 | 1 | Plug-Button |
| 24 | 75-6820 | 1 | Hourmeter |
| 25 | 32144-18 | 2 | Screw-HH |
| 26 | 100-1535 | 3 | Switch |
| 27 | 99-7420 | 1 | Plug-Hole |
| 28 | 106-2027 | 1 | Switch-Intermittent |
| 29 | 95-8999 | 2 | Switch |
| 30 | 115-9117 | 1 | Cable-Throttle |
| 31 | 3290-134 | 2 | Screw |
| 32 | 110-8911 | 1 | Seal-Foam |
| 33 | 99-7411 | 1 | Point-Power |
| 34 | 99-7416 | 1 | Cap |
| 35 | 93-9999 | 1 | Switch-PTO |
| 36 | 115-9104 | 1 | Harness-Seat/Console |
| 36:2 | 104-4022 | 1 | Resistor-75 Ohm |
| 37 | 110-0542 | 2 | Spacer-Flange |
| 38 | 107069 | 2 | Clip |
| 39 | 117-2378 | 1 | Holder-Bag |
| 40 | 3290-321 | 2 | Screw-HWH |
| 41 | 3296-2 | 2 | Nut-Lock, NI |
| 42 | 117-2384 | 1 | Decal-Console, Lower |
| 43 | 117-2385 | 1 | Decal-Console, Upper |
| 44 | 117-2387 | 1 | Decal-Lift |




# Hydraulic Filter and Reservoir Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 93-7498 | 1 | Plug-Plastic |
| 2 | 237-101 | 1 | O-Ring |
| 3 | 94-9411 | 1 | Dipstick |
| 4 | 68-6150 | 1 | Breather |
| 5 | 92-8020 | 1 | Adapter-Breather |
| 6 | 114-8116 | 1 | Tank-HYD |
| 7 | 92-6058 | 1 | Fitting-HYD |
| 7:1 | 237-81 | 1 | O-Ring |
| 7:2 | 237-58 | 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 | 322-11 | 2 | Screw-HH |
| 12 | 107-4543 | 2 | Clamp |
| 13 | 104-8300 | 5 | Nut-Flange, NI |
| 14 | 61-2790 | 1 | Filter-Screen |
| 15 | 108-7641 | 1 | Cap-Tank, HYD |

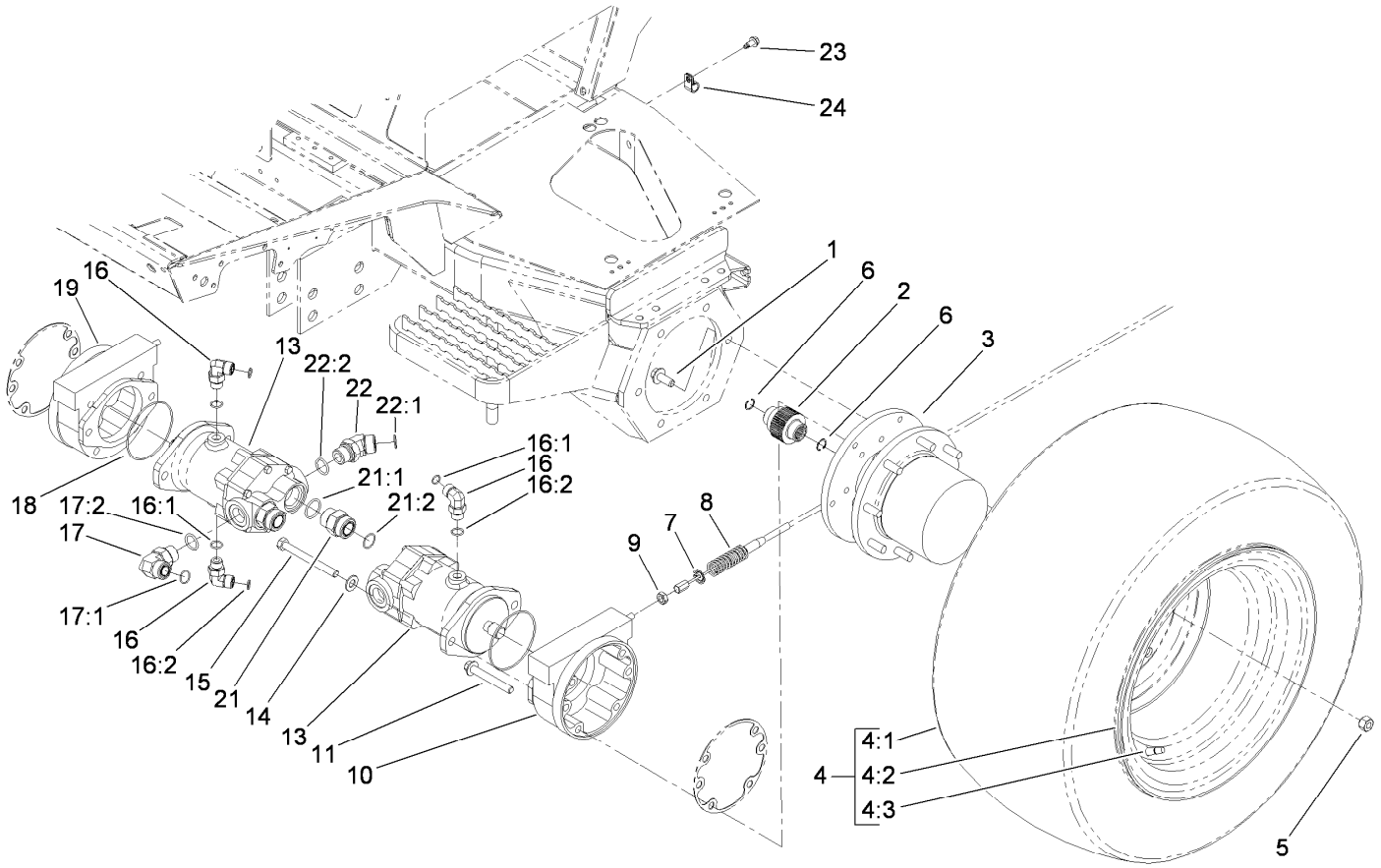
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 16 | 94-3559 | 6 | Screw-HSH |
| 17 | 94-2660 | 1 | Gasket-Flange |
| 18 | 104-7048 | 1 | Cap-Housing |
| 19 | 104-7050 | 1 | Tube-Manual |
| 20 | 2412-133 | 2 | R-Clamp |
| 21 | 99-6810 | 4 | Screw-HH |
| 22 | 114-8136 | 2 | Rail-Slide |
| 23 | 108-1605 | 1 | Bumper-Recess |
| 24 | 322-5 | 1 | Screw-HH |
| 25 | 3256-3 | 1 | Washer-Flat |
| 27 | 114-8133 | 1 | Cover-HYD Tank |
| 28 | 114-8137 | 4 | Clip-Retainer |
| 29 | 46-8093 | 16 | Screw-Plastite |
| 30 | 115-4350 | 2 | Latch-Cover |
| 31 | 98-1375 | 2 | Screw-HWH |
| 32 | 115-4355 | 2 | Spacer |
| 33 | 115-4397-03 | 1 | Plate-HYD Tank |
| 34 | 110-5333 | 1 | Grommet-Plug |
| 35 | 3234-47 | 2 | Screw-HHF |
| 36 | 3256-23 | 2 | Washer-Flat |




# Fuel Tank and Filter Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 115-4354 | 1 | Tube-Suction, Fuel |
| 2 | 2412-80 | 2 | Clamp-Line, Fuel |
| 3 | 110-3257 | 1 | Hose-Fuel |
| 4 | 104-5605 | 1 | Fitting-Return |
| 5 | 110-0471 | 1 | Hose-Fuel |
| 6 | 114-5062 | 1 | Cap-Biodiesel |
| 7 | 46-6560 | 2 | Bushing |
| 8 | 92-2379 | 6 | Clamp-Hose |
| 9 | 115-4353 | 1 | Fuel Tank ASM |
| 9:1 | 2412-36 | 1 | Clamp-Hose |
| 9:2 | 304-46 | 1 | Draincock |
| 9:4 | 117-4790 | 1 | Guage-Fuel |
| 9:5 | 95-8972 | 1 | Grommet |
| 10 | 322-11 | 2 | Screw-HH |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 11 | 107-4543 | 2 | Clamp |
| 12 | 104-8300 | 2 | Nut-Flange, NI |
| 13 | 110-8806 | 1 | Pump-Fuel |
| 14 | 32144-110 | 1 | Screw-HWH |
| 15 | 110-8817 | 1 | Bracket-Pump, Fuel |
| 16 | 109-0309 | 1 | Hose-Fuel |
| 17 | 110-4109 | 1 | Hose-Fuel |
| 18 | 321-6 | 2 | Screw-HH |
| 19 | 104-7201 | 2 | Nut-HF |
| 20 | 110-9044 | 1 | Filter-Seperator |
| 20:1 | 110-9049 | 1 | Filter-Spin On |
| 21 | 353-781 | 2 | Fitting-Elbow |
| 22 | 3256-23 | 2 | Washer-Flat |
| 23 | 3256-22 | 2 | Washer-Flat |

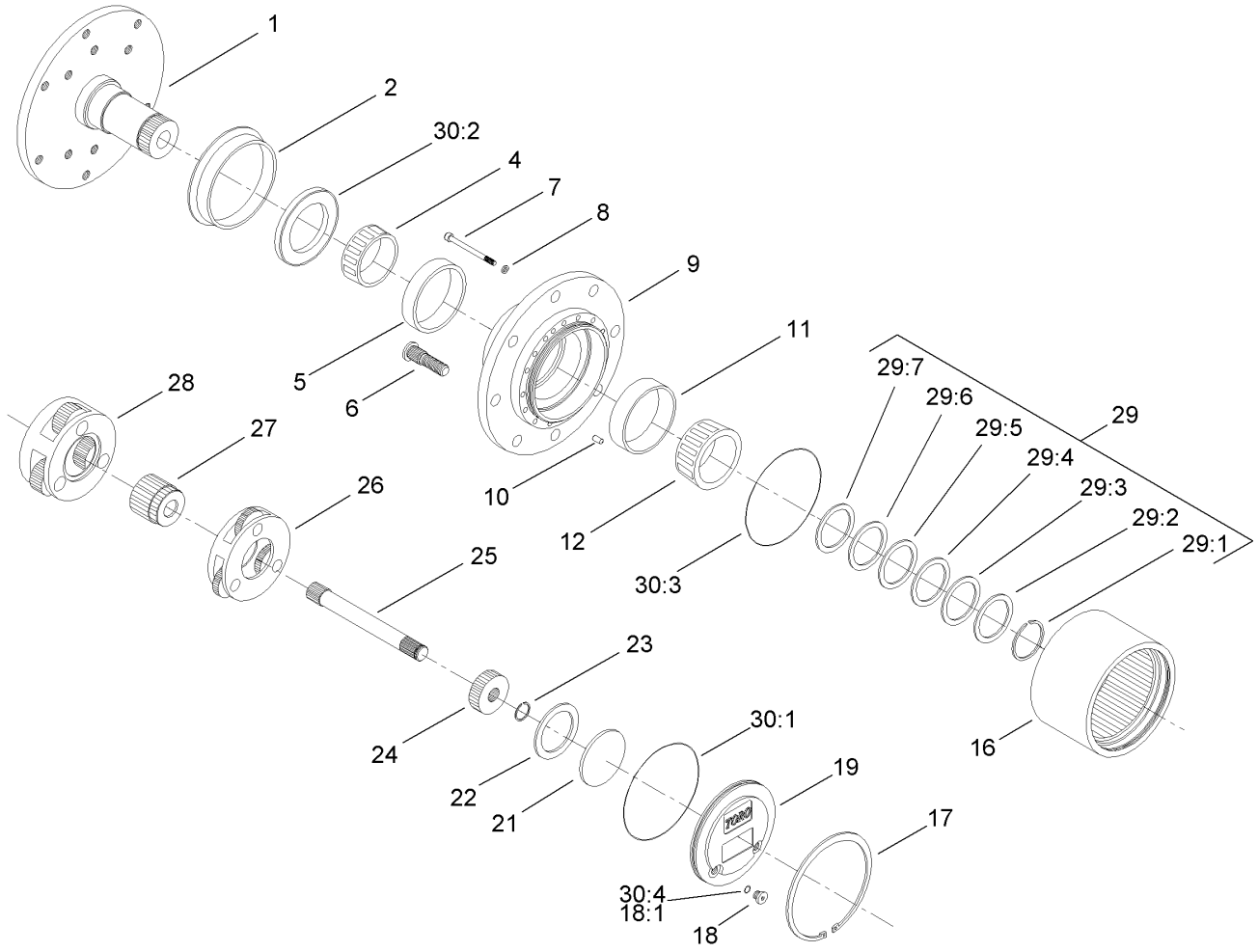



# Front Drive and Brake Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 33106-030 | 12 | Screw-HHF |
| 2 | 100-3046 | 2 | Shaft-Brake, Splined |
| 3 | 105-4500-03 | 2 | Planetary ASM |
| 4 | | 2 | Wheel And Tire ASM ● |
| 4:1 | 95-3465 | 1 | Tire |
| 4:2 | 114-8114 | 1 | Rim (15X12-8) |
| 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 | Piston Motor ASM |
| 14 | 3256-26 | 4 | Washer-Flat |
| 15 | 33116-120 | 4 | Screw-HH |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 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 |
| 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 | 32104-32 | 2 | Screw-HWH |
| 24 | 2412-93 | 2 | Clamp-R |

● Not serviced separately



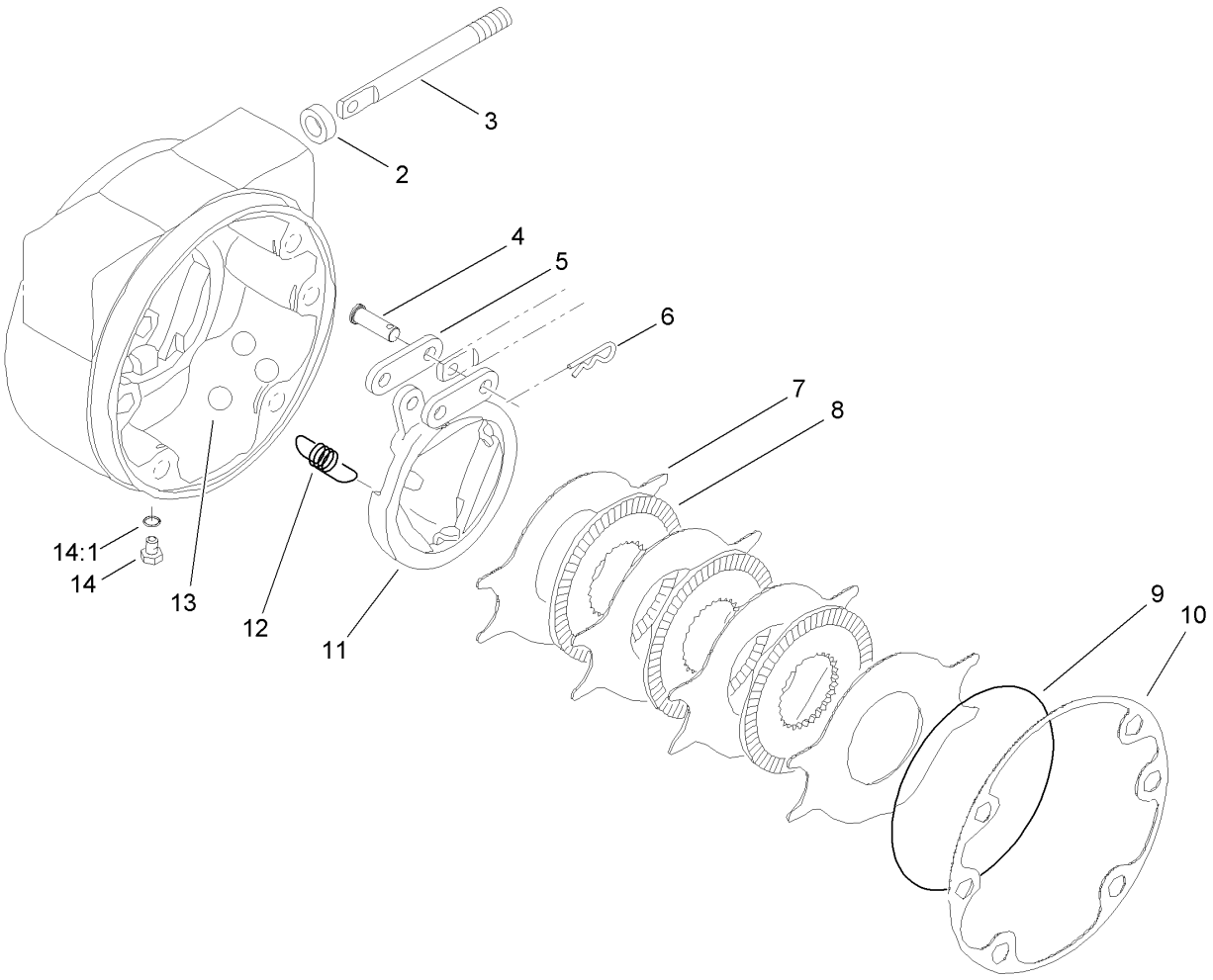

# Planetary Assembly No. 105-4500-03

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | | 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 |
| 9 | | 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 |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 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 |
| 29 | 105-8136 | 1 | Shim Kit |
| 29:1 | | 1 | Ring-Snap ■ |
| 29:2 | | 1 | Shim-Bearing, 2.9Mm ■ |
| 29:3 | | 1 | Shim-Bearing, 2.8Mm ■ |
| 29:4 | | 1 | Shim-Bearing, 2.7Mm ■ |
| 29:5 | | 1 | Shim-Bearing, 2.6Mm ■ |
| 29:6 | | 1 | Shim-Bearing, 2.5Mm ■ |
| 29:7 | | 1 | Shim-Bearing, 2.4Mm ■ |
| 30 | 105-8137 | 1 | Seal Kit ● |
| 30:1 | | 1 | O Ring-Flange Cap ■ |
| 30:2 | | 1 | Seal-Oil ■ |
| 30:3 | | 2 | O Ring-End Cap ■ |
| 30:4 | 237-78 | 2 | O-Ring |

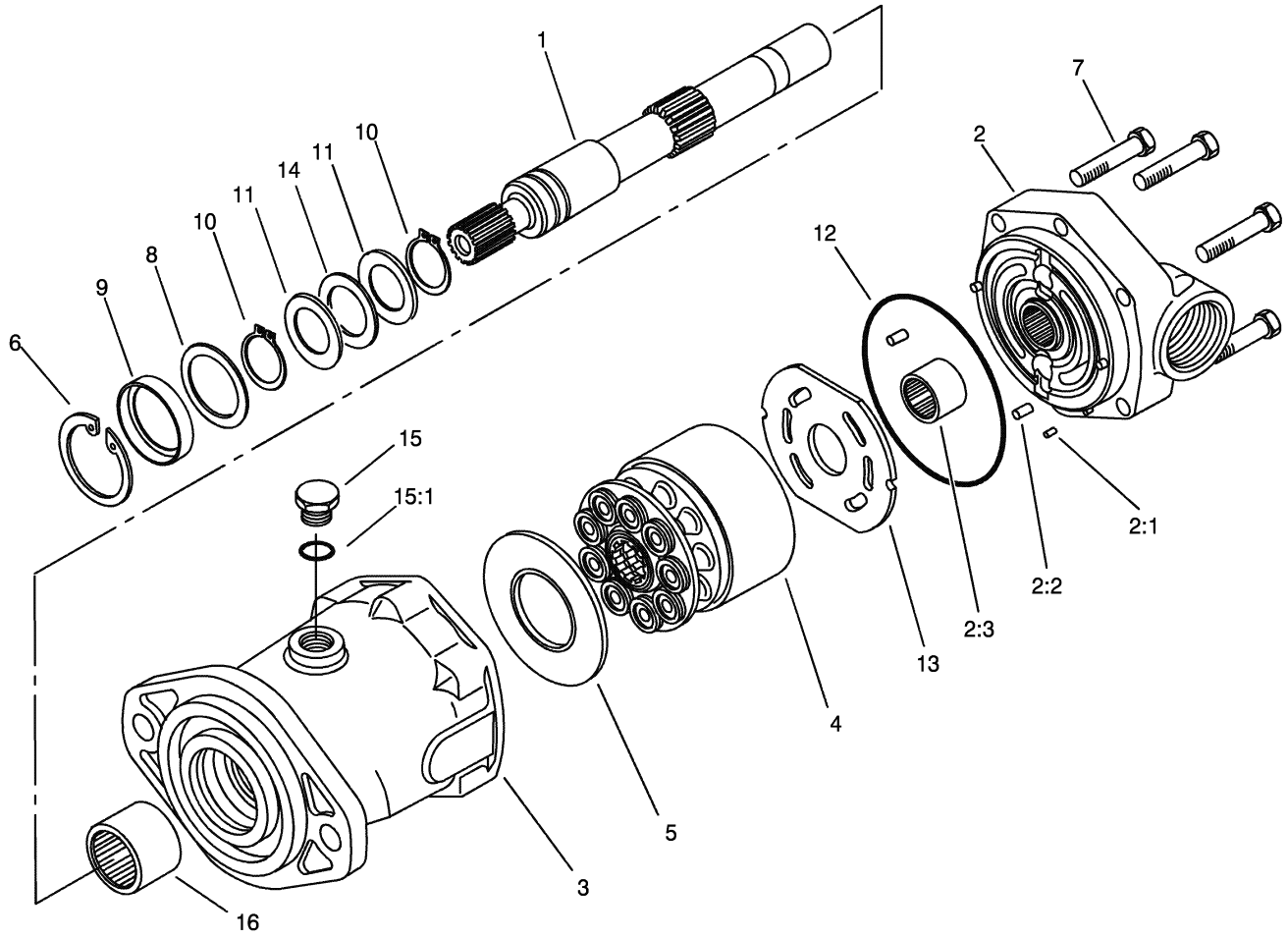
● Not illustrated

■ Not serviced separately




# Brake Assembly No. 100-3070-03

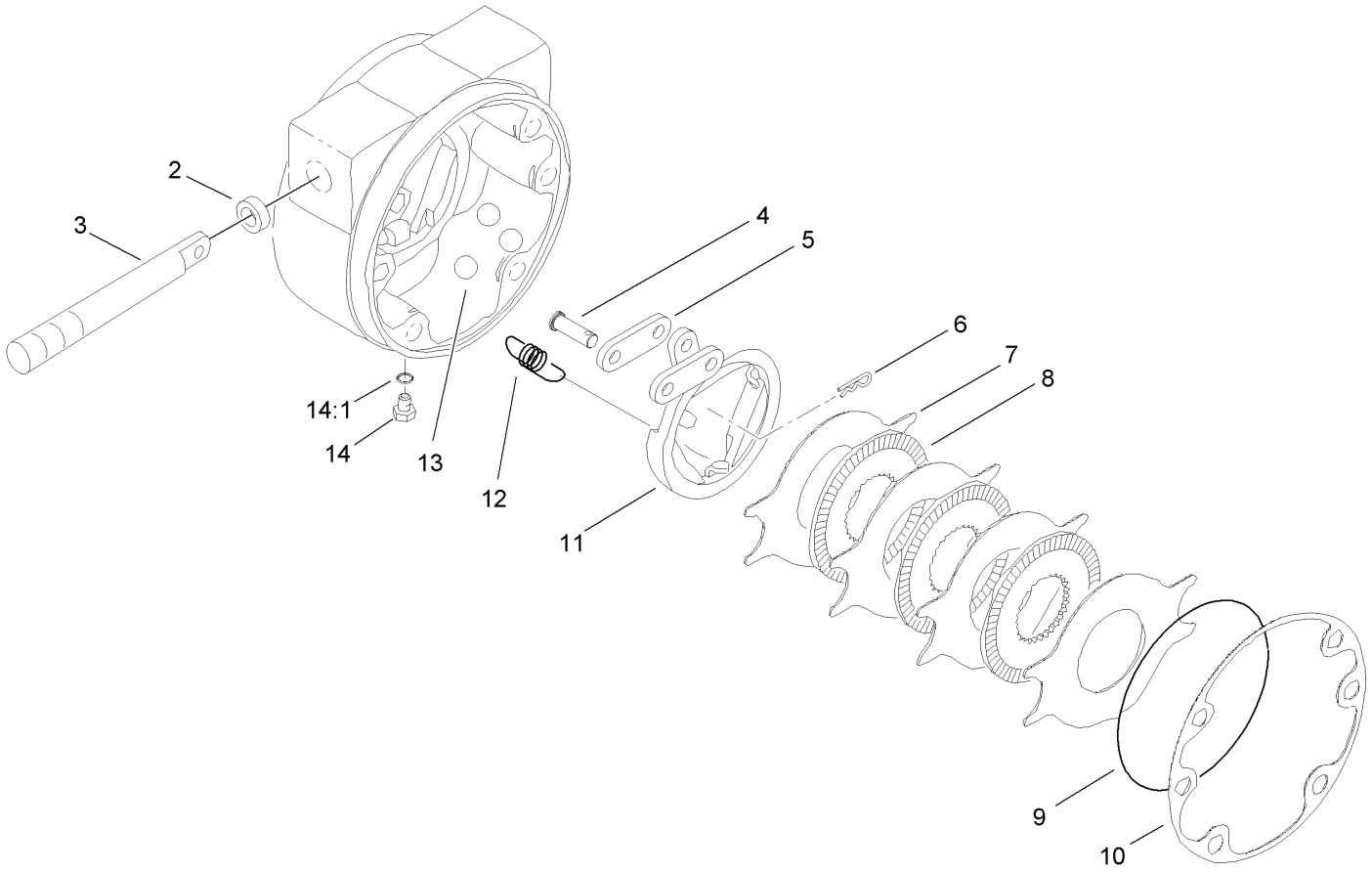
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 2 | 93-7977 | 1 | Seal |
| 3 | 93-7978 | 1 | Rod-Pull |
| 4 | 93-7983 | 2 | Pin-Clevis |
| 5 | 93-7980 | 2 | Link |
| 6 | 93-7979 | 2 | Pin-Hitch |
| 7 | 93-7986 | 4 | Disc-Stationary |
| 8 | 104-4278 | 3 | Disc-Rotating |
| 9 | 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

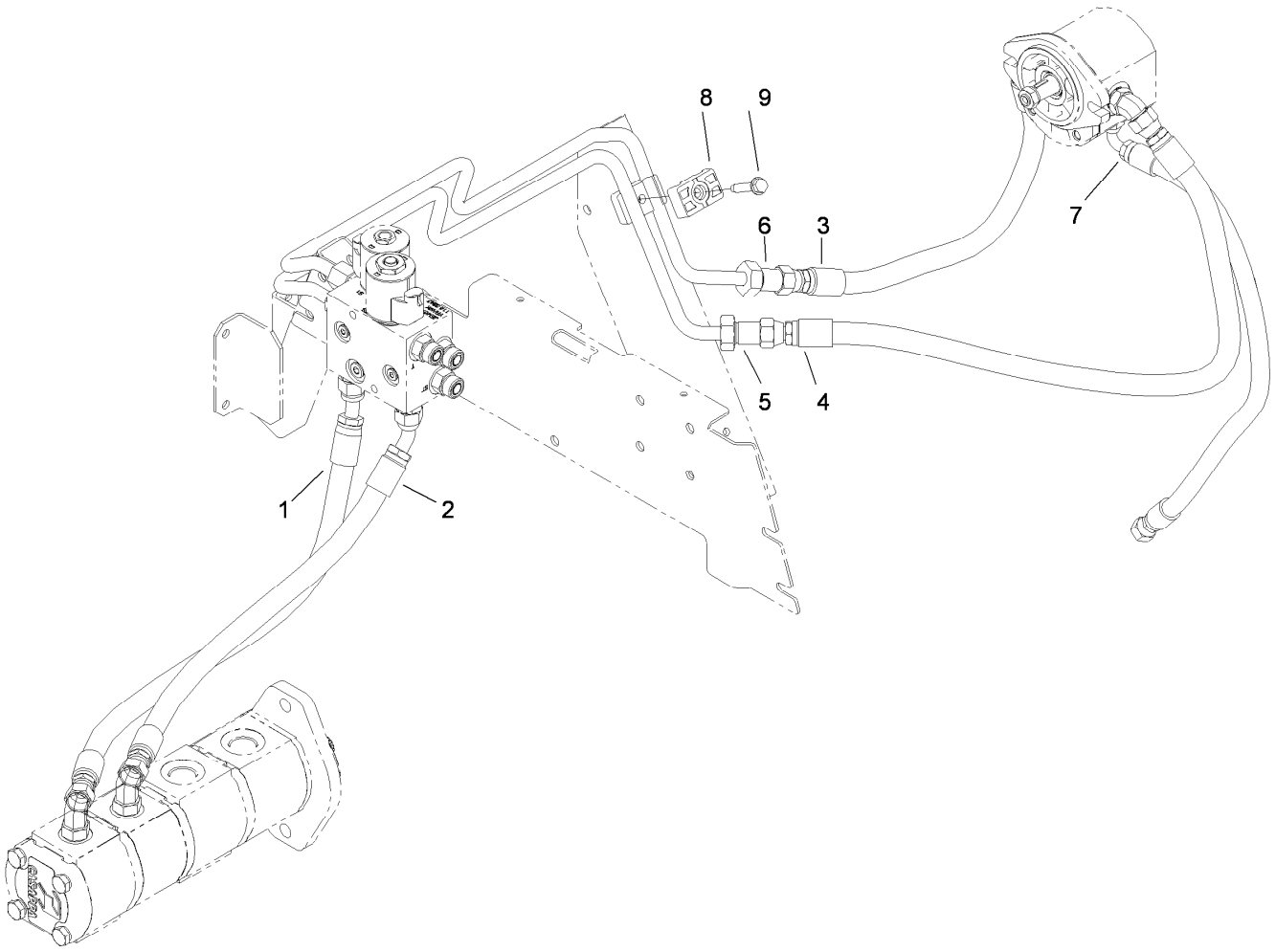
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 94-3004 | 1 | Shaft-Drive, Splined |
| 2 | 105-2851 | 1 | Backplate ASM |
| 2:1 | | 3 | Pin-Dowel ● |
| 2:2 | | 1 | Pin-Dowel ● |
| 2:3 | | 1 | Bearing-Needle ● |
| 3 | | 1 | Housing ● |
| 4 | 76-6910 | 1 | Rotating Kit |
| 5 | 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 |

● Not serviced separately



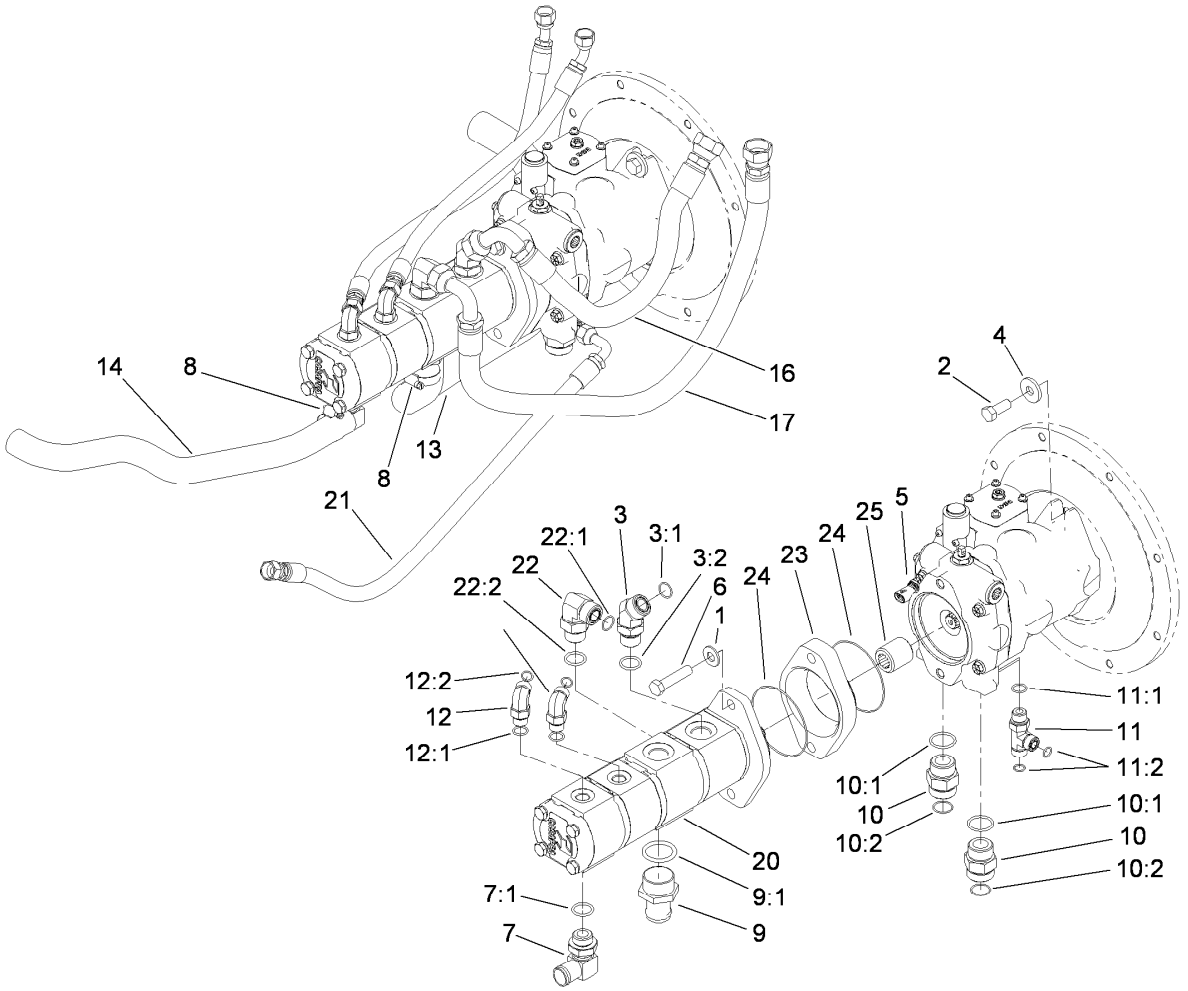

# Brake Assembly No. 100-3069-03

| *Ref.* | *Part Number* | *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 |




# Fan Plumbing Assembly

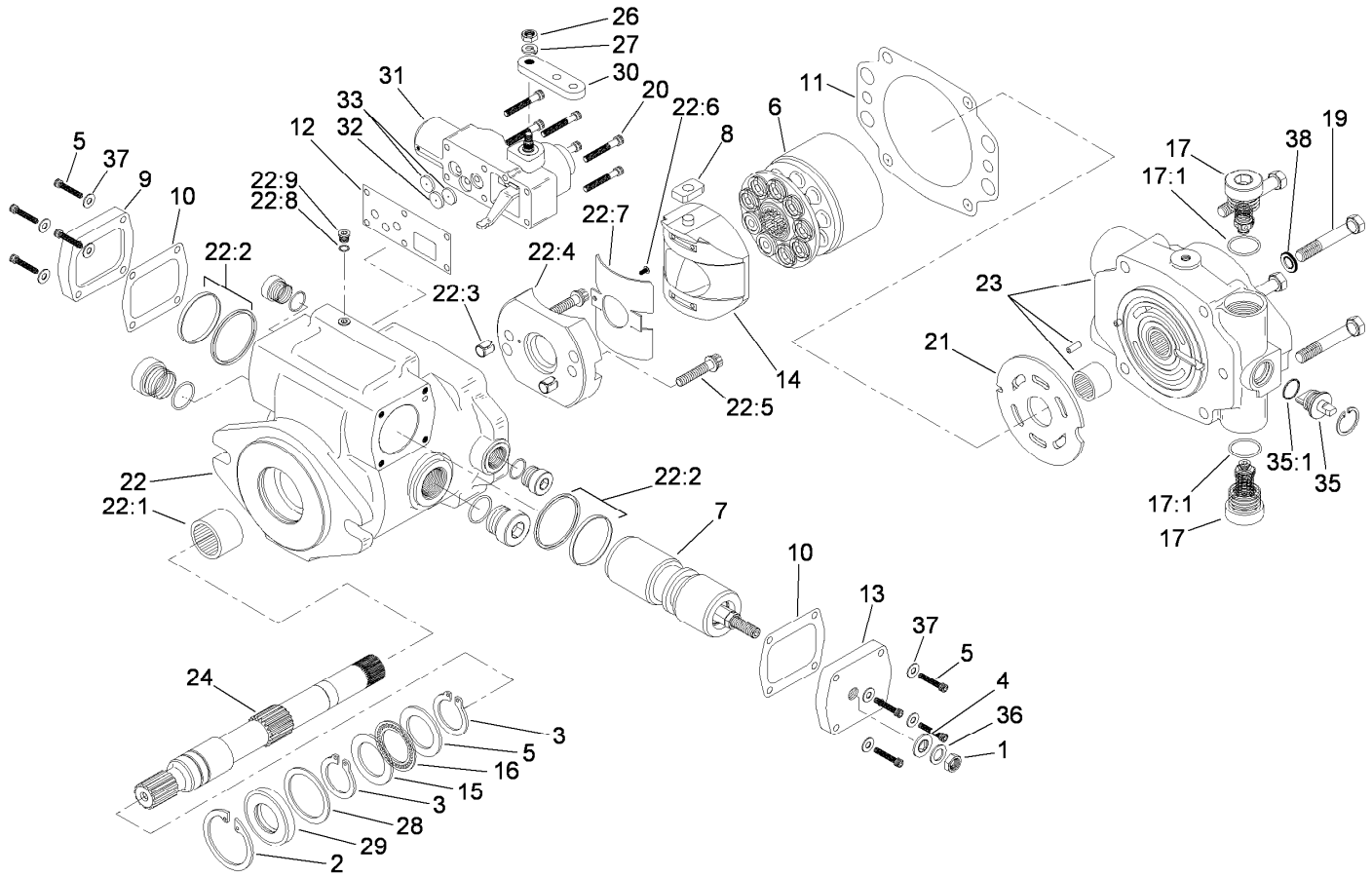
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 115-4438 | 1 | Hose ASM |
| 2 | 115-4439 | 1 | Hose ASM |
| 3 | 92-2406 | 1 | HYD Hose ASM |
| 4 | 115-9116 | 1 | Hose ASM |
| 5 | 115-9122 | 1 | Tube-HYD |
| 6 | 115-9123 | 1 | Tube-HYD |
| 7 | 115-4434 | 1 | Hose ASM |
| 8 | 56-7976 | 2 | Clamp-Tube |
| 9 | 32144-57 | 1 | Screw |




# Hydraulic Pump Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 87-7270 | 2 | Washer-Thrust |
| 2 | 325-5 | 2 | Screw-HH |
| 3 | 100-5530 | 1 | Fitting-HYD, 45 DEG |
| 3:1 | 237-58 | 1 | O-Ring |
| 3:2 | 237-81 | 1 | O-Ring |
| 4 | 110-6147 | 2 | Washer-Flat |
| 5 | 114-4188 | 1 | Piston Pump ASM |
| 6 | 325-9 | 2 | Screw-HH |
| 7 | 100-4202 | 1 | Fitting-HYD, 90 DEG |
| 7:1 | 237-81 | 1 | O-Ring |
| 8 | 2412-130 | 2 | Clamp-Hose |
| 9 | 104-5480 | 1 | Fitting-Hose, Straight |
| 9:1 | 237-123 | 1 | O-Ring |
| 10 | 104-3797 | 2 | Fitting-HYD, Straight |
| 10:1 | 237-146 | 1 | O-Ring |
| 10:2 | 340-65 | 1 | O-Ring |
| 11 | 340-109 | 1 | Fitting-HYD, Tee |

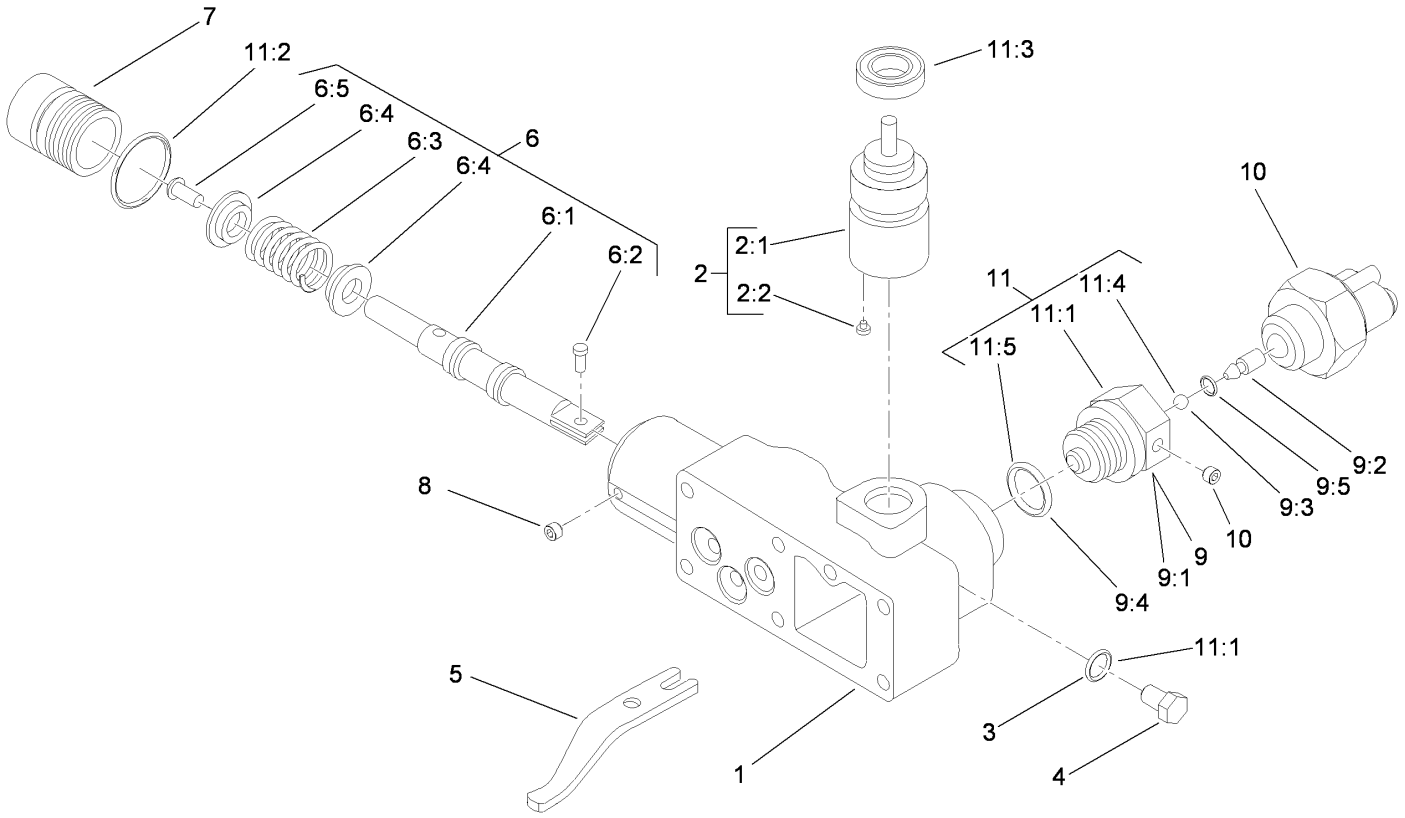
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 11:1 | 237-79 | 1 | O-Ring |
| 11:2 | 237-30 | 2 | O-Ring |
| 12 | 340-98 | 2 | Fitting-HYD, 90 DEG |
| 12:1 | 237-79 | 1 | O-Ring |
| 12:2 | 237-30 | 1 | O-Ring |
| 13 | 115-4449 | 1 | Hose |
| 14 | 115-4447 | 1 | Hose-Suction |
| 16 | 117-4762 | 1 | Hose ASM |
| 17 | 115-4384 | 1 | Hose ASM |
| 20 | 114-4189 | 1 | 4 Section Pump ASM |
| 21 | 105-3985 | 1 | Hose ASM |
| 22 | 340-142 | 1 | Fitting-HYD, 90 DEG |
| 22:1 | 237-58 | 1 | O-Ring |
| 22:2 | 237-81 | 1 | O-Ring |
| 23 | 115-3757 | 1 | Spacer-Pump |
| 24 | 115-3009 | 2 | O-Ring |
| 25 | 115-3011 | 1 | Coupler-Pump |




# Piston Pump Assembly No. 114-4188

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 3220-3 | 1 | Nut-HJ |
| 2 | 60-6260 | 1 | Ring |
| 3 | 76-7000 | 2 | Ring-Retaining |
| 4 | 94-3027 | 1 | Washer-Seal |
| 5 | 93-6337 | 8 | Screw |
| 6 | 105-9851 | 1 | Rotating Kit |
| 7 | 105-4572 | 1 | Servo Piston ASM |
| 8 | 94-3032 | 1 | Follower-Piston |
| 9 | 94-3033 | 1 | Plate-Cover |
| 10 | 93-6339 | 2 | Gasket |
| 11 | 105-2900 | 1 | Gasket-Housing |
| 12 | 105-2901 | 1 | Gasket-Housing, Control |
| 13 | 105-9853 | 1 | Plate-Cover |
| 14 | 94-3026 | 1 | Camplate ASM |
| 15 | 76-6950 | 2 | Race-Thrust |
| 16 | 76-6960 | 1 | Bearing-Thrust |
| 17 | 105-2857 | 2 | Valve-Relief |
| 17:1 | | 1 | O-Ring ● |
| 19 | 323-45 | 4 | Screw-HH |
| 20 | 93-6324 | 6 | Screw |
| 21 | 105-9854 | 1 | Plate-Valve |
| 22 | 105-9855 | 1 | Housing ASM |
| 22:1 | | 1 | Bearing ● |
| 22:2 | | 2 | Seal ASM ● |
| 22:3 | | 2 | Dowel-Bushing ● |
| 22:4 | | 1 | Cradle ASM ● |
| 22:5 | | 2 | Screw ● |
| 22:6 | | 1 | Screw ● |
| 22:7 | | 1 | Bushing ● |
| 22:8 | | 1 | O-Ring ● |
| 22:9 | | 1 | Plug ● |
| 23 | 115-4445 | 1 | Endcover Sub ASM |
| 24 | 115-3008 | 1 | Shaft-Drive |
| 26 | 93-6327 | 1 | Nut |
| 27 | 3253-3 | 1 | Washer-Lock |
| 28 | 60-6240 | 1 | Washer |
| 29 | 105-3331 | 1 | Seal-Shaft |
| 30 | 110-0036 | 1 | Arm-Control |
| 31 | 115-4446 | 1 | Manual Servo Control ASM |
| 32 | 105-2909 | 1 | Orifice-Control, .036 Dia |
| 33 | 94-3041 | 2 | Orifice-Control (.028 Dia) |
| 35 | 105-2864 | 1 | Valve-Bypass |
| 35:1 | | 1 | O-Ring ● |
| 36 | 94-3030 | 1 | Washer |
| 37 | 93-6336 | 8 | Washer |
| 38 | 105-9762 | 4 | Washer |

● Not serviced separately

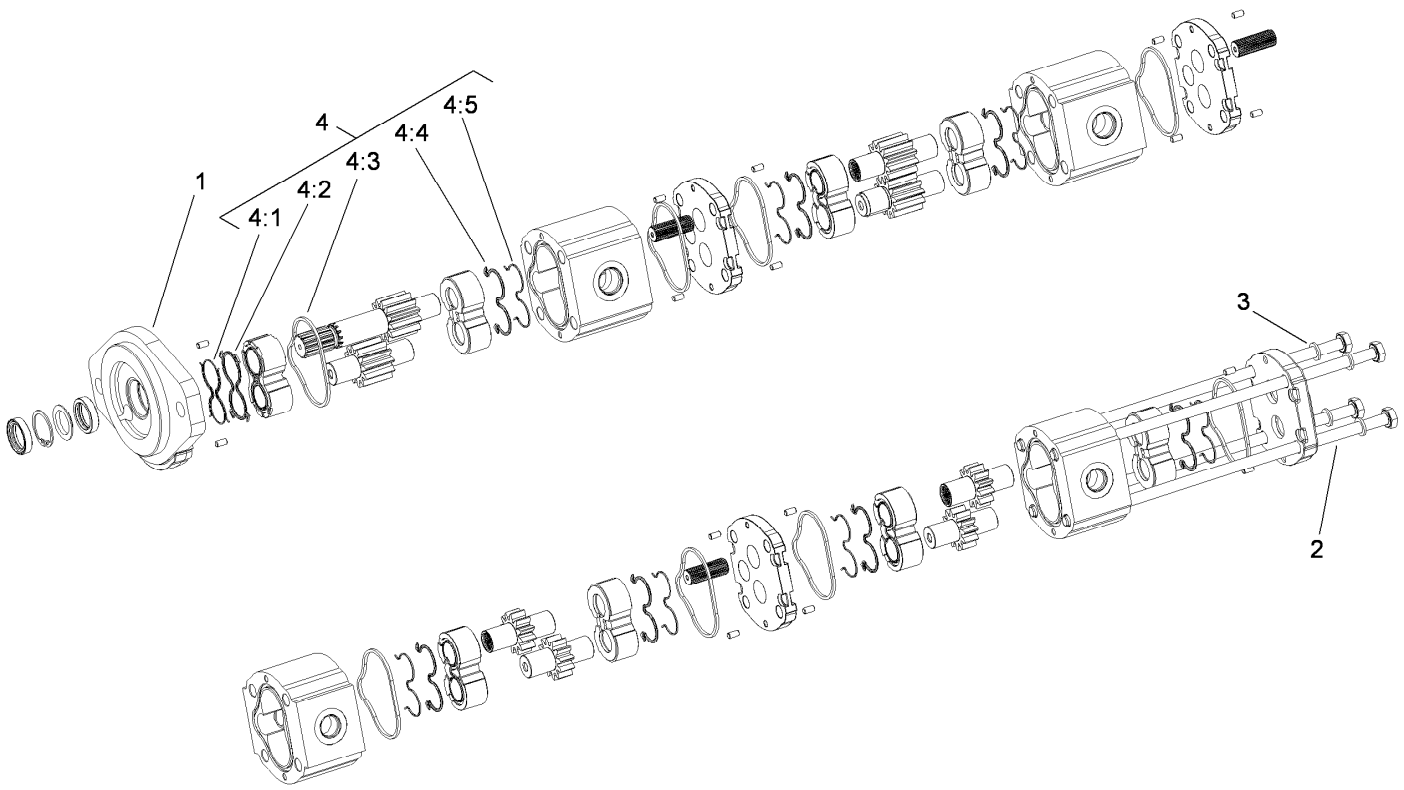



# Control Assembly No. 115-4446

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | | 1 | Housing-Control ● |
| 2 | 108-7099 | 1 | Input Control Shaft ASM |
| 2:1 | | 1 | Shaft ● |
| 2:2 | | 1 | Pin ● |
| 3 | | 1 | O-Ring ● |
| 4 | | 1 | Plug ● |
| 5 | | 1 | Link-Feedback ● |
| 6 | 108-7098 | 1 | Valve Spool ASM |
| 6:1 | | 1 | Valve-Spool ● |
| 6:2 | | 1 | Pin-Dowel ● |
| 6:3 | | 1 | Spring ● |
| 6:4 | | 2 | Retainer ● |
| 6:5 | | 1 | Screw ● |
| 7 | | 1 | Plug ● |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 8 | | 2 | Screw-Set ● |
| 9 | 108-8003 | 1 | Adaptor ASM |
| 9:1 | | 1 | Adaptor-Lockout, Neutral ● |
| 9:2 | | 1 | Pin ● |
| 9:3 | | 1 | Ball ● |
| 9:4 | | 1 | O-Ring ● |
| 9:5 | | 1 | O-Ring ● |
| 10 | 115-3795 | 1 | Switch-Neutral |
| 11 | 94-3044 | 1 | Seal Kit |
| 11:1 | | 1 | O-Ring ● |
| 11:2 | | 1 | O-Ring ● |
| 11:3 | | 1 | Seal-Wiper ● |
| 11:4 | | 1 | O-Ring ● |
| 11:5 | | 1 | O-Ring ● |

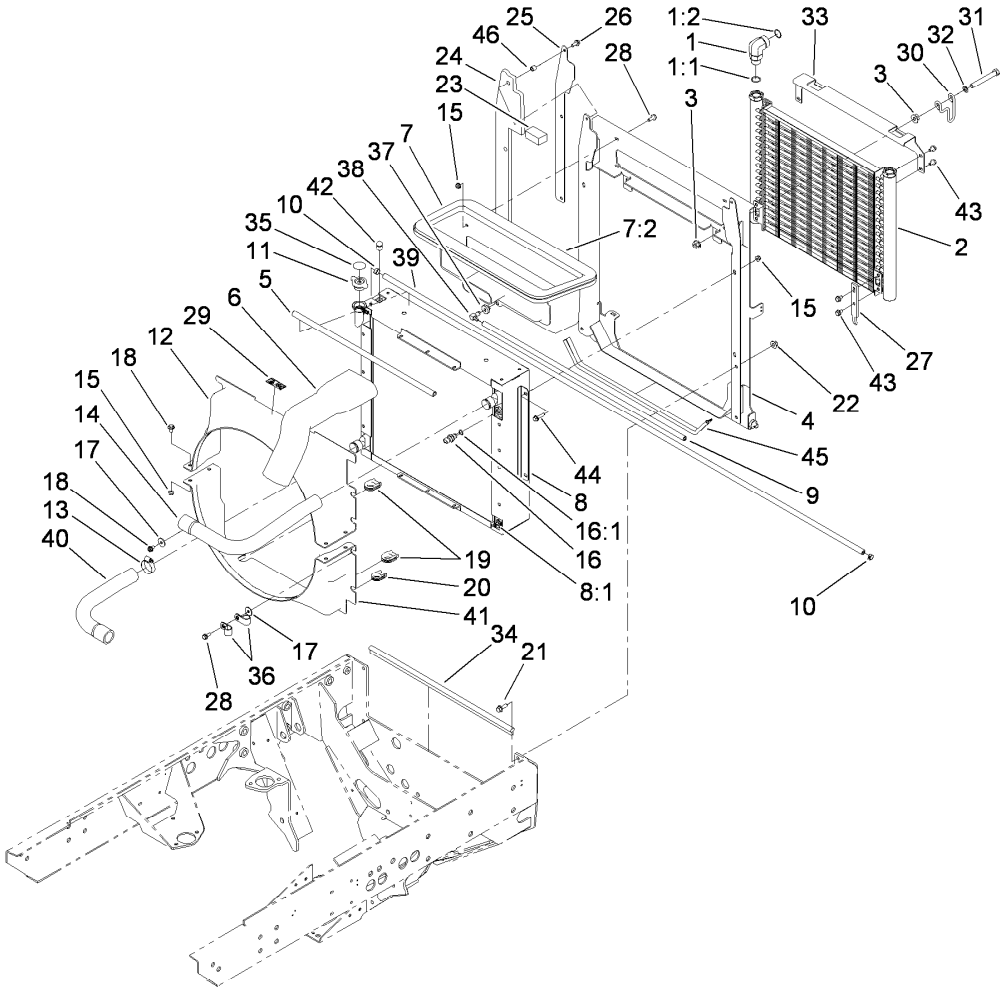
● Not serviced separately




# Four Section Pump Assembly No. 114-4189

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 115-3774 | 1 | Cover-Front |
| 2 | 115-4444 | 4 | Bolt |
| 3 | 115-9138 | 4 | Washer |
| 4 | 115-3776 | 1 | Seal Kit |
| 4:1 | | 1 | Seal ● |
| 4:2 | | 1 | Seal ● |
| 4:3 | | 8 | Seal ● |
| 4:4 | | 7 | Seal ● |
| 4:5 | | 7 | Seal ● |

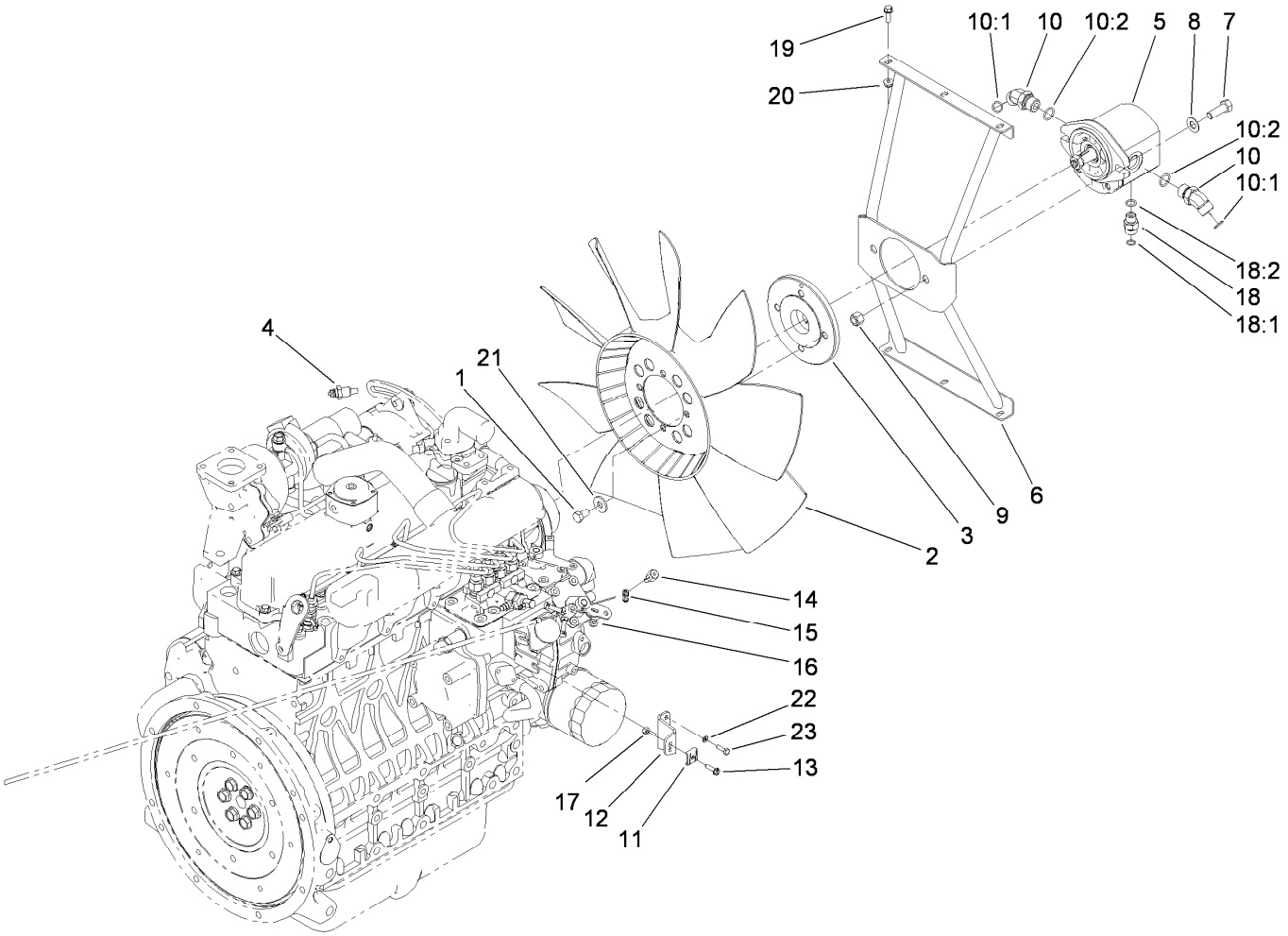
● Not serviced separately




# Radiator Assembly

| Ref. | Part Number | 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 | 110-0485 | 1 | Cooler-Oil |
| 3 | 32128-49 | 4 | Nut-HHF |
| 4 | 114-4153-03 | 1 | Radiator Mount ASM |
| 5 | 114-3828 | 1 | Seal-Bulb |
| 6 | 114-4152 | 1 | Hose-Air Cleaner |
| 7 | 115-4363 | 1 | Plenum ASM |
| 7:2 | 115-4393 | 1 | Seal-Plenum |
| 8 | 114-3833 | 1 | Radiator |
| 8:1 | 304-46 | 1 | Draincock |
| 9 | 110-3258 | 1 | Hose-Fuel |
| 10 | 92-2379 | 3 | Clamp-Hose |
| 11 | 93-5957 | 1 | Cap-Radiator |
| 12 | 114-3816 | 1 | Shroud-Radiator, Upper |
| 13 | 2412-111 | 4 | Clamp |
| 14 | 114-3831 | 1 | Hose-Radiator, Upper |
| 15 | 104-8300 | 12 | Nut-Flange, NI |
| 16 | 110-8829 | 1 | Sender-Temperature |
| 16:1 | 237-42 | 1 | O-Ring |
| 17 | 3256-82 | 8 | Washer-Flat |
| 18 | 3234-7 | 11 | Screw-HHF |
| 19 | 115-3763 | 2 | Grommet (.800 Id) |
| 20 | 115-3764 | 1 | Grommet (.680 Id) |
| 21 | 3234-11 | 4 | Screw-HHF |

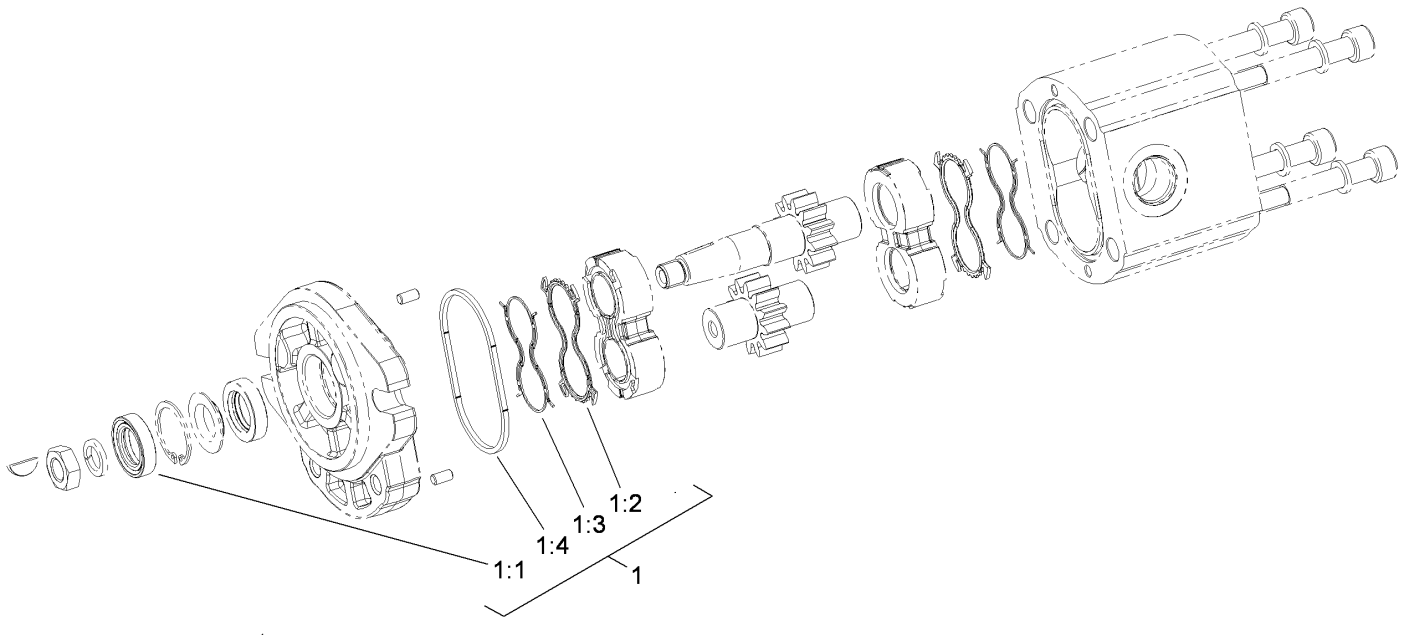
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 22 | 32128-43 | 4 | Nut-Flange |
| 23 | 115-9133 | 2 | Seal-Foam |
| 24 | 117-4780 | 2 | Seal-Foam, Hood |
| 25 | 117-4781-03 | 2 | Bracket-Seal Hood |
| 26 | 32144-41 | 2 | Screw-Taptite |
| 27 | 104-5460-03 | 2 | Plate-Mount, Oil Cooler |
| 28 | 3234-47 | 9 | Screw-HHF |
| 29 | 117-4766 | 1 | Decal-Warning, Fan |
| 30 | 104-5429 | 2 | Clamp-Form, Wire |
| 31 | 325-17 | 2 | Screw-HH |
| 32 | 41-8440 | 2 | Washer |
| 33 | 114-4193 | 1 | Bracket-Oil Cooler,Top |
| 34 | 105-9858 | 1 | Seal-Bulb |
| 35 | 106-6755 | 1 | Decal-Cap, Radiator |
| 36 | 2412-81 | 2 | Clamp-R |
| 37 | 46-6560 | 1 | Bushing |
| 38 | 46-6550 | 1 | Fitting-Elbow, 90 DEG |
| 39 | 110-6184 | 1 | Hose-Fuel |
| 40 | 114-3832 | 1 | Hose-Radiator, Lower |
| 41 | 114-3834 | 1 | Shroud-Radiator, Lower |
| 42 | 281-13 | 1 | Plug-Pipe |
| 43 | 100-1719 | 8 | Screw-Flange |
| 44 | 3234-36 | 4 | Screw-HHF |
| 45 | 117-4782 | 1 | Seal-Bulb |
| 46 | 1-603903 | 6 | Spacer |




# Fan and Motor Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 115-8486 | 4 | Screw-HH |
| 2 | 114-3825 | 1 | Fan |
| 3 | 117-2364 | 1 | Hub-Fan |
| 4 | 98-9346 | 1 | Sender-Temperature |
| 5 | 117-4769 | 1 | HYD Motor ASM |
| 6 | 114-9764-03 | 1 | Bracket-Motor, Fan |
| 7 | 324-5 | 2 | Screw-HH |
| 8 | 3256-25 | 2 | Washer-Flat |
| 9 | 3296-48 | 2 | Nut-Lock, NI |
| 10 | 340-101 | 2 | Fitting-HYD, 45 DEG |
| 10:1 | 237-30 | 1 | O-Ring |
| 10:2 | 237-79 | 1 | O-Ring |
| 11 | 81-1690 | 1 | Clamp-Cable |
| 12 | 115-9114-03 | 1 | Support-Cable, Throttle |

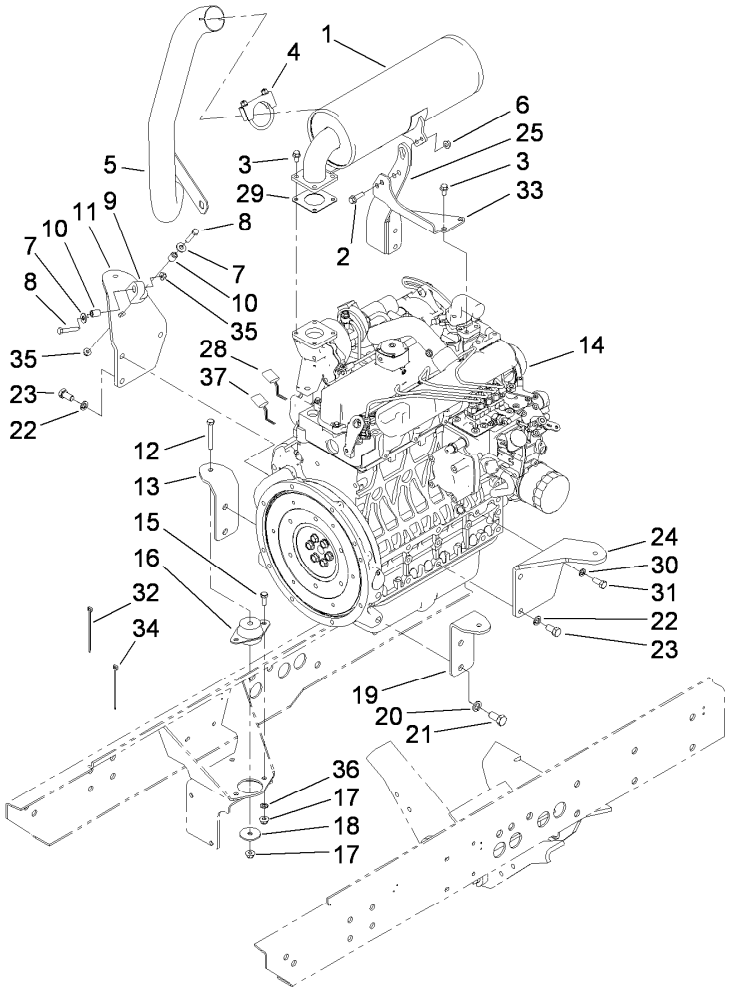
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 13 | 32105-13 | 1 | Screw-HWH |
| 14 | 93-0021 | 1 | Swivel-Cable, Throttle |
| 15 | 112-9919 | 1 | Stop-Cable, Throttle |
| 16 | 3296-13 | 1 | Nut-Lock, NI |
| 17 | 3296-2 | 1 | Nut-Lock, NI |
| 18 | 340-2 | 1 | Fitting-HYD, Straight |
| 18:1 | 237-22 | 1 | O-Ring |
| 18:2 | 237-42 | 1 | O-Ring |
| 19 | 99-6810 | 6 | Screw-HH |
| 20 | 104-7201 | 6 | Nut-HF |
| 21 | 80-6990 | 4 | Washer-Hardened |
| 22 | 43-5930 | 2 | Washer-Lock, Spring |
| 23 | 33113-020 | 2 | Screw-HH |




# Hydraulic Motor Assembly No. 117-4769

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 115-4110 | 1 | Seal Kit |
| 1:1 | | 2 | Seal-Shaft ● |
| 1:2 | | 2 | Seal-Plate, Balancing ● |
| 1:3 | | 2 | Seal-Anti Extrusion ● |
| 1:4 | | 2 | O Ring-Housing ● |

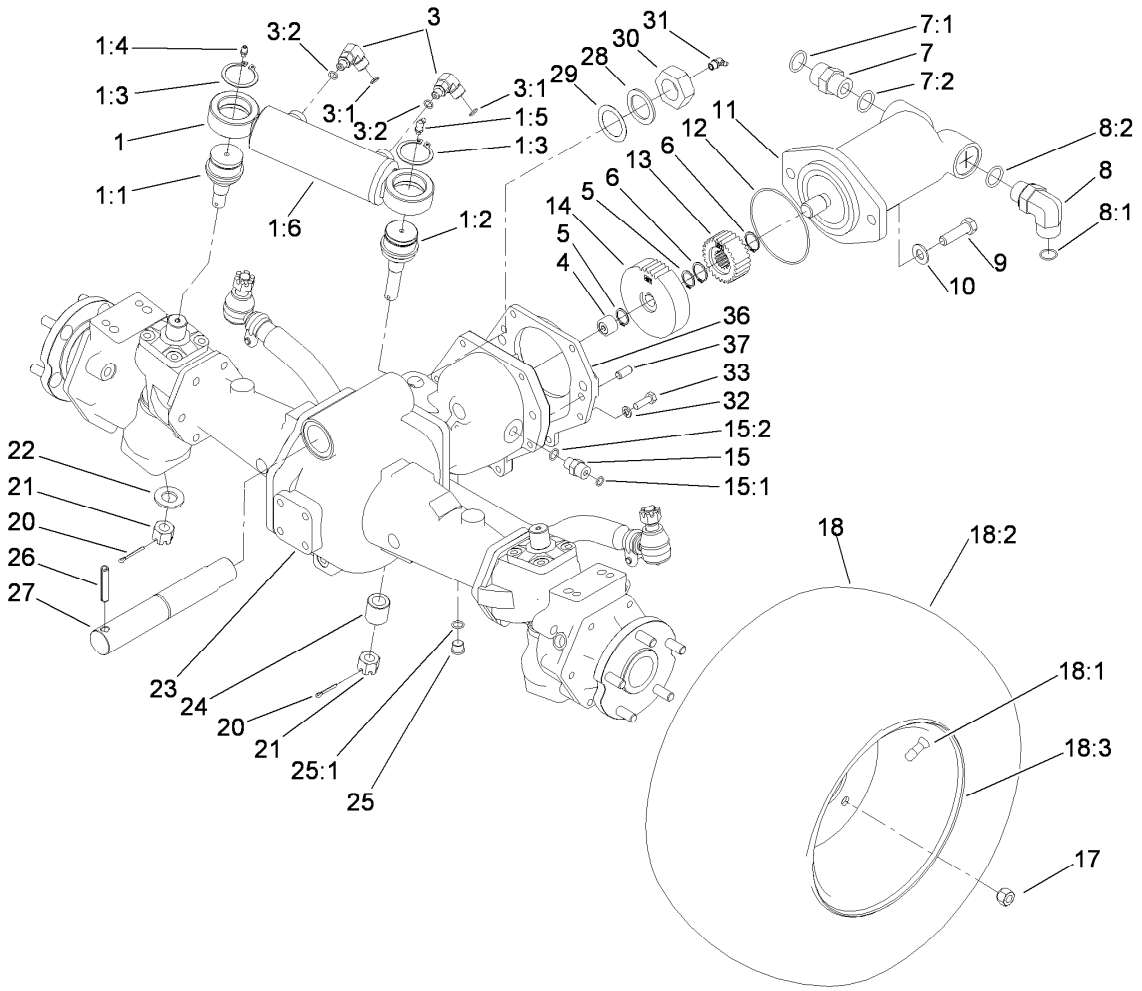
● Not serviced separately




# Engine Installation Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 114-3849 | 1 | Muffler-Turbo |
| 2 | 33104-030 | 2 | Screw-HHF |
| 3 | 33104-016 | 6 | Screw-HHF |
| 4 | 49-2580 | 1 | Clamp-Muffler |
| 5 | 114-4181 | 1 | Pipe-Exhaust |
| 6 | 33004-00 | 4 | Nut-HF |
| 7 | 3256-3 | 2 | Washer-Flat |
| 8 | 322-9 | 2 | Screw-HH |
| 9 | 95-5622 | 1 | Hanger-Rubber |
| 10 | 93-5023 | 2 | Spacer |
| 11 | 114-3807-03 | 1 | Mount-Engine, RH |
| 12 | 323-13 | 4 | Screw-HH |
| 13 | 114-4170-03 | 1 | Mount-Engine, Front RH |
| 14 | 114-3800 | 1 | Engine ASM |
| 15 | 3234-11 | 10 | Screw-HHF |
| 16 | 53-9682 | 4 | Mount-Engine-Green |
| 17 | 104-8301 | 14 | Nut-Flange, NI |
| 18 | 63-7400 | 4 | Washer-Rebound |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 19 | 114-4169-03 | 1 | Mount-Engine, Front, LH |
| 20 | 43-5950 | 4 | Washer-Lock, Spring |
| 21 | 43-3210 | 4 | Screw-HH |
| 22 | 48-8070 | 5 | Washer-Lock |
| 23 | 42-9250 | 5 | Bolt |
| 24 | 114-3817-03 | 1 | Mount-Engine, LH |
| 25 | 114-9781-03 | 1 | Mount-Exhaust |
| 28 | 117-2370 | 1 | Harness-Ground |
| 29 | 100-9333 | 1 | Gasket-Muffler |
| 30 | 43-0090 | 1 | Screw-HH |
| 31 | 48-9590 | 1 | Washer-Lock |
| 32 | 3290-378 | 3 | Tie-Cable |
| 33 | 112-9113-03 | 1 | Mount-Exhaust |
| 34 | 3290-379 | 2 | Tie-Cable |
| 35 | 104-8300 | 2 | Nut-Flange, NI |
| 36 | 3255-9 | 1 | Washer-Lock |
| 37 | 117-2372 | 1 | Harness-Wire, Alternator (40A) |

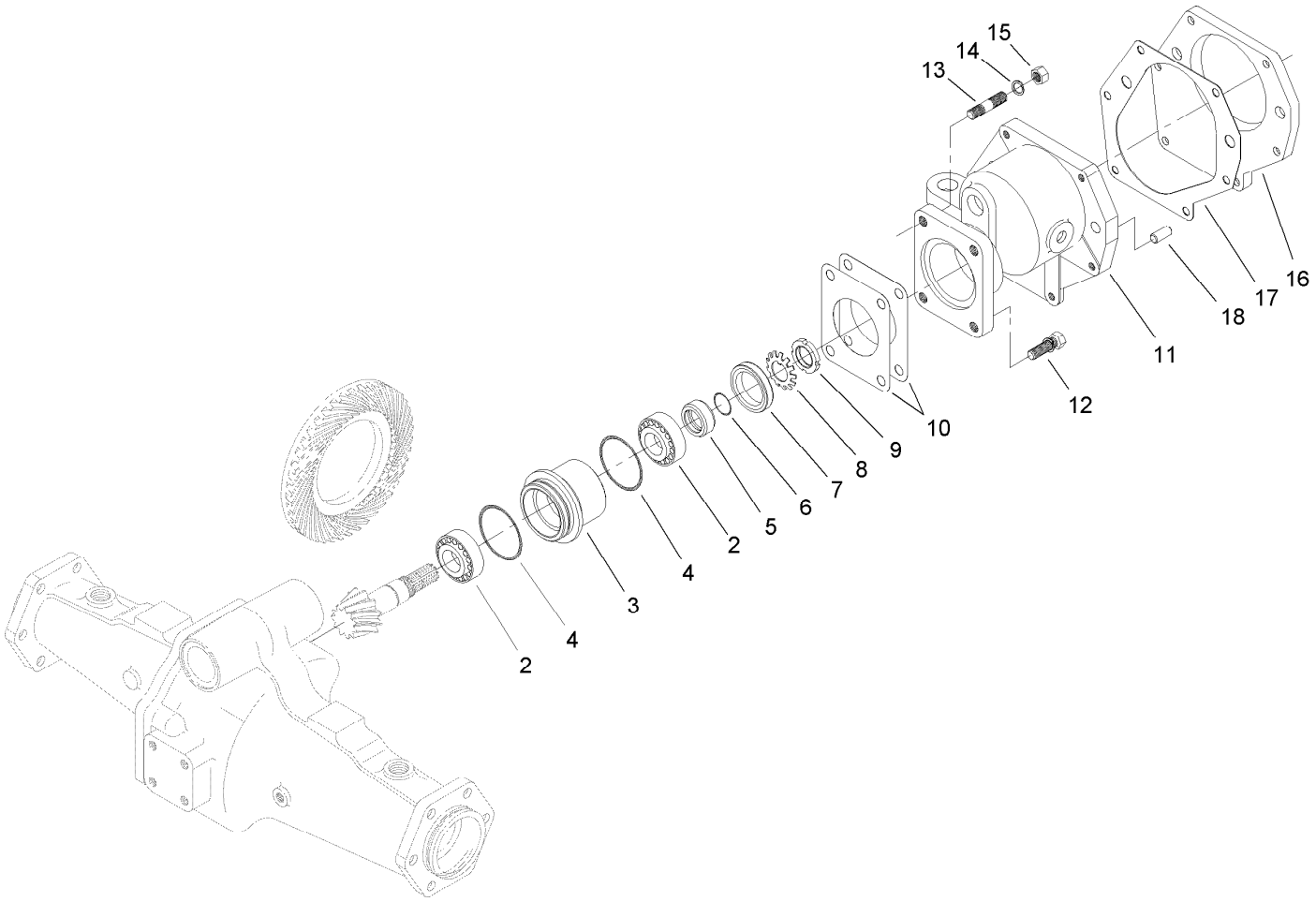



# Rear Axle Assembly

| Ref. | Part Number | 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 |
| 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 | HYD Motor ASM |
| 12 | 237-166 | 1 | O-Ring |
| 13 | 104-0755 | 1 | Pinion-27 Tooth |
| 14 | 100-3053 | 1 | Gear-45 Tooth |

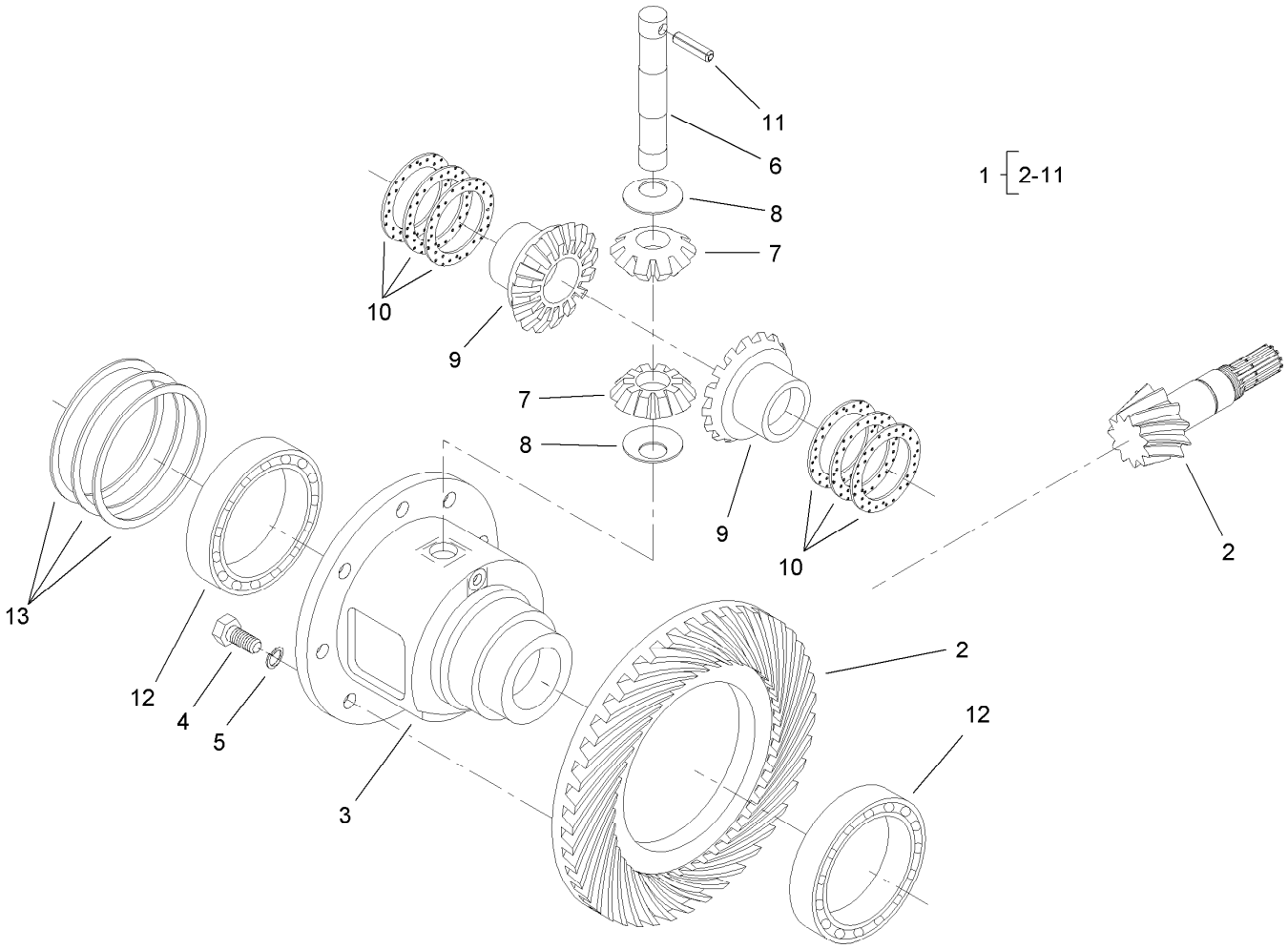
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 15 | 340-2 | 1 | Fitting-HYD, Straight |
| 15:1 | 237-22 | 1 | O-Ring |
| 15:2 | 237-42 | 1 | O-Ring |
| 17 | 93-5268 | 10 | Nut-Lug |
| 18 | | 2 | Tire And Wheel ASM ● |
| 18:1 | 232-27 | 1 | Stem-Valve |
| 18:2 | 104-0451 | 1 | Tire-Turf, 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 | 32121-110 | 1 | Pin-Roll, Slotted |
| 27 | 115-9142 | 1 | Pin-Rear Axle |
| 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 |
| 36 | 95-7541 | 1 | Plate-Cover |
| 37 | 104-2353 | 2 | Pin-Dowel |

● Not serviced separately



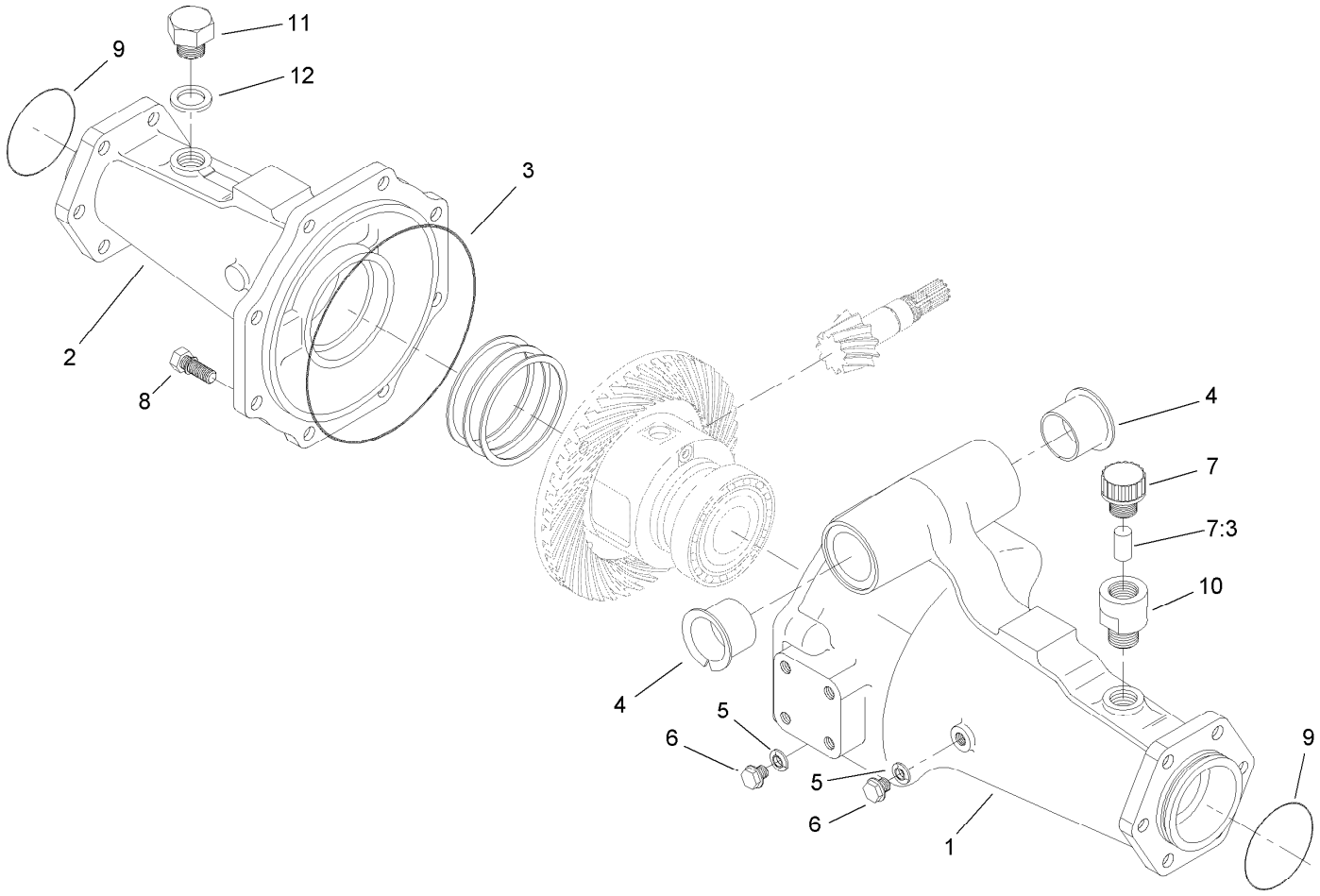

# Bevel Pinion Shaft Assembly
# Rear Axle Assembly No. 110-4750

| *Ref.* | *Part Number* | *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 | 106-1140 | 1 | Gasket |
| 18 | 104-2353 | 2 | Pin-Dowel |



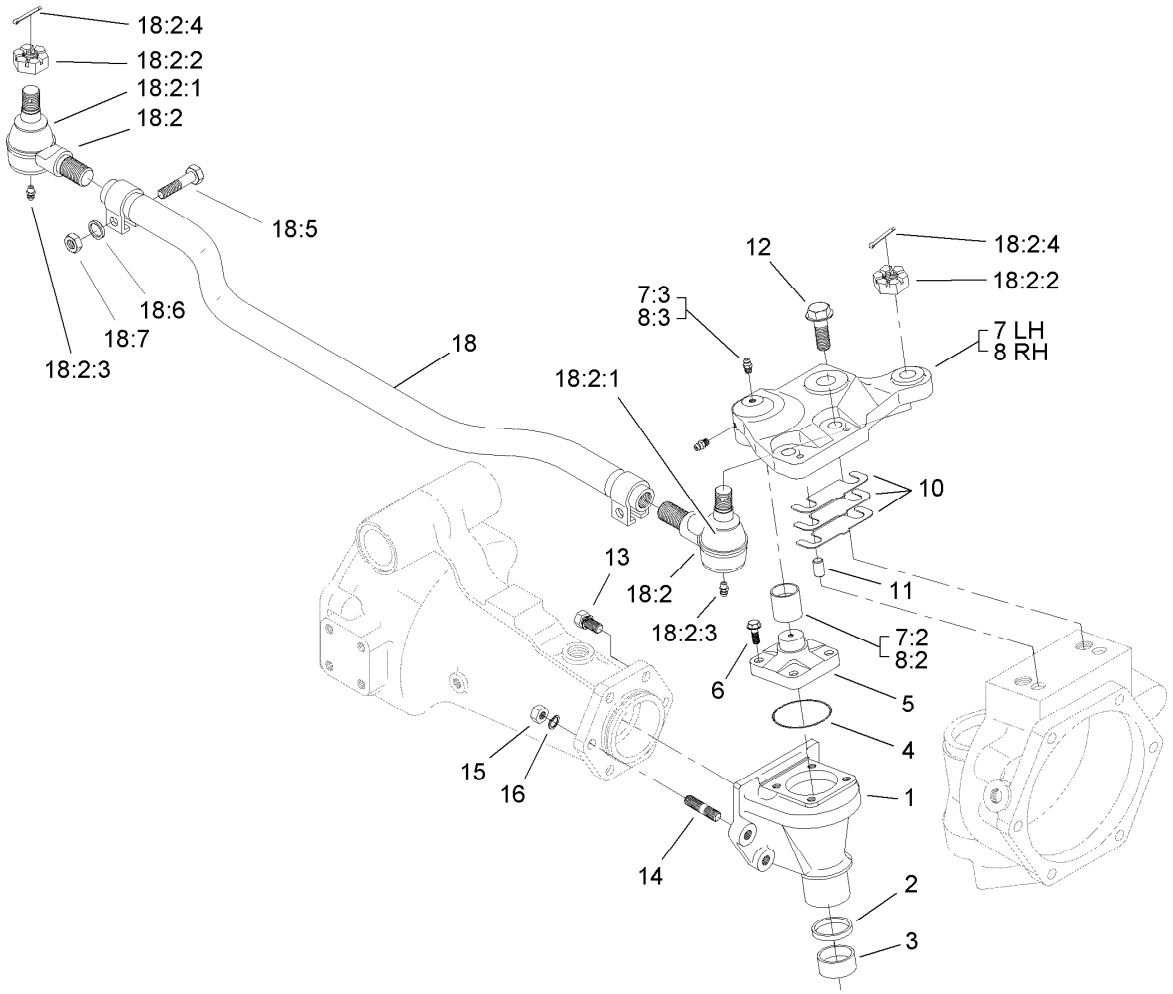

# Differential Assembly
# Rear Axle Assembly No. 110-4750

| *Ref.* | *Part Number* | *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

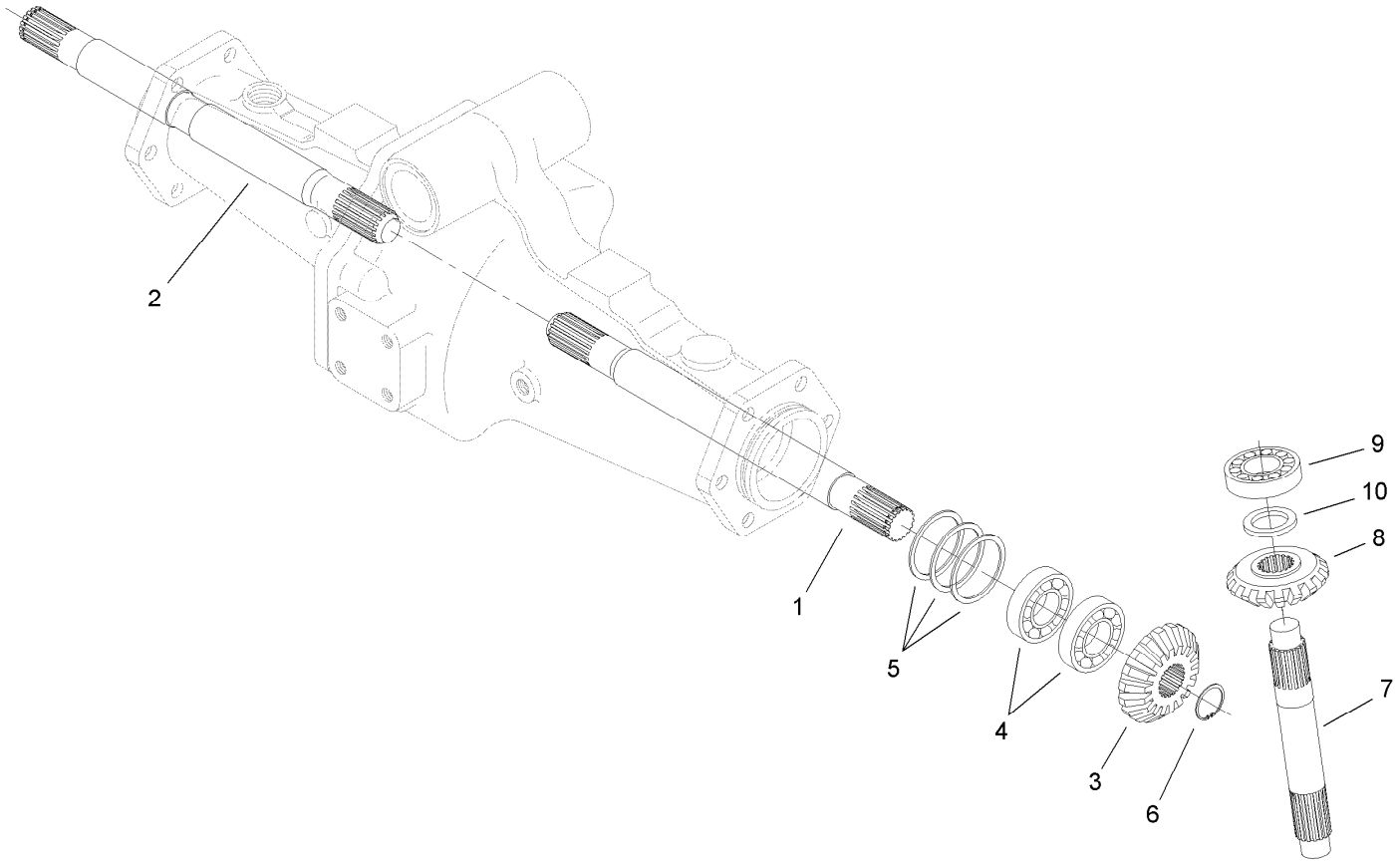
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 95-7508 | 1 | Support-Axle |
| 2 | 95-7506 | 1 | Support-Axle |
| 3 | 106-1067 | 1 | O-Ring |
| 4 | 95-7537 | 2 | Bushing-Flanged |
| 5 | 99-7590 | 2 | Washer-Seal |
| 6 | 99-7589 | 2 | Plug |
| 7 | 110-4812 | 1 | Axle Vent ASM |
| 7:3 | 110-4815 | 1 | Insert-Filter, Foam |
| 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

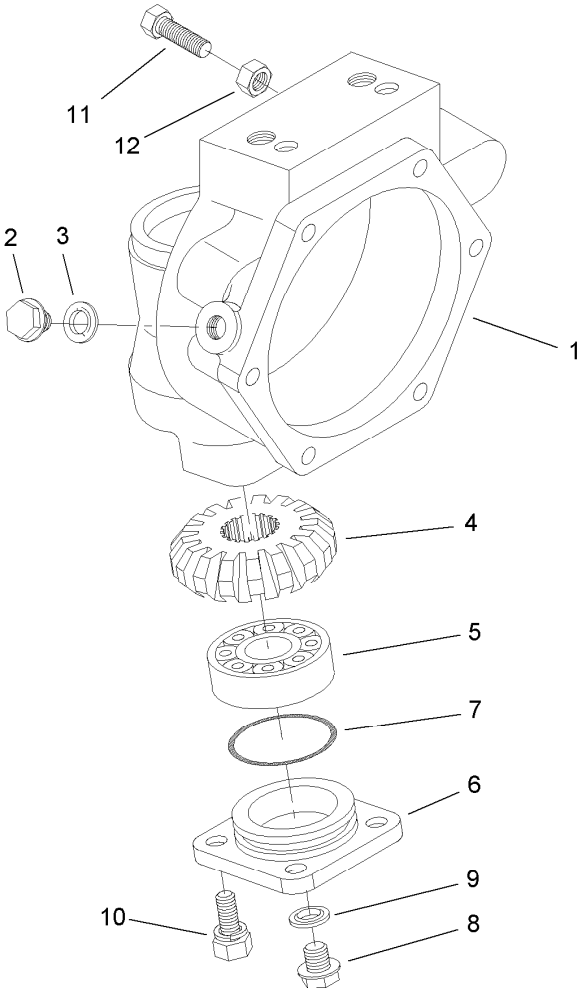
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 110-4752 | 2 | Case-Gear, Bevel |
| 2 | 110-4754 | 2 | Seal-Oil |
| 3 | 104-2378 | 2 | Bushing |
| 4 | 106-1069 | 2 | O-Ring |
| 5 | 104-2373 | 2 | Knuckle |
| 6 | 104-2374 | 8 | Bolt |
| 7 | 100-3768 | 1 | LH Steering Arm ASM |
| 7:2 | 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 |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 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 | 106-1141 | 1 | Steering Tie Rod ASM |
| 18:2 | 106-1113 | 2 | Tie Rod End ASM - RH Thread |
| 18:2:1 | 100-3853 | 1 | Cover-Dust |
| 18:2:2 | 100-3854 | 1 | Nut-Castle |
| 18:2:3 | 110-4755 | 1 | Fitting-Grease |
| 18:2:4 | 3272-11 | 1 | Pin-Cotter |
| 18:5 | 100-3855 | 2 | Bolt |
| 18:6 | 99-7527 | 2 | Washer-Spring |
| 18:7 | 99-7526 | 2 | Nut |



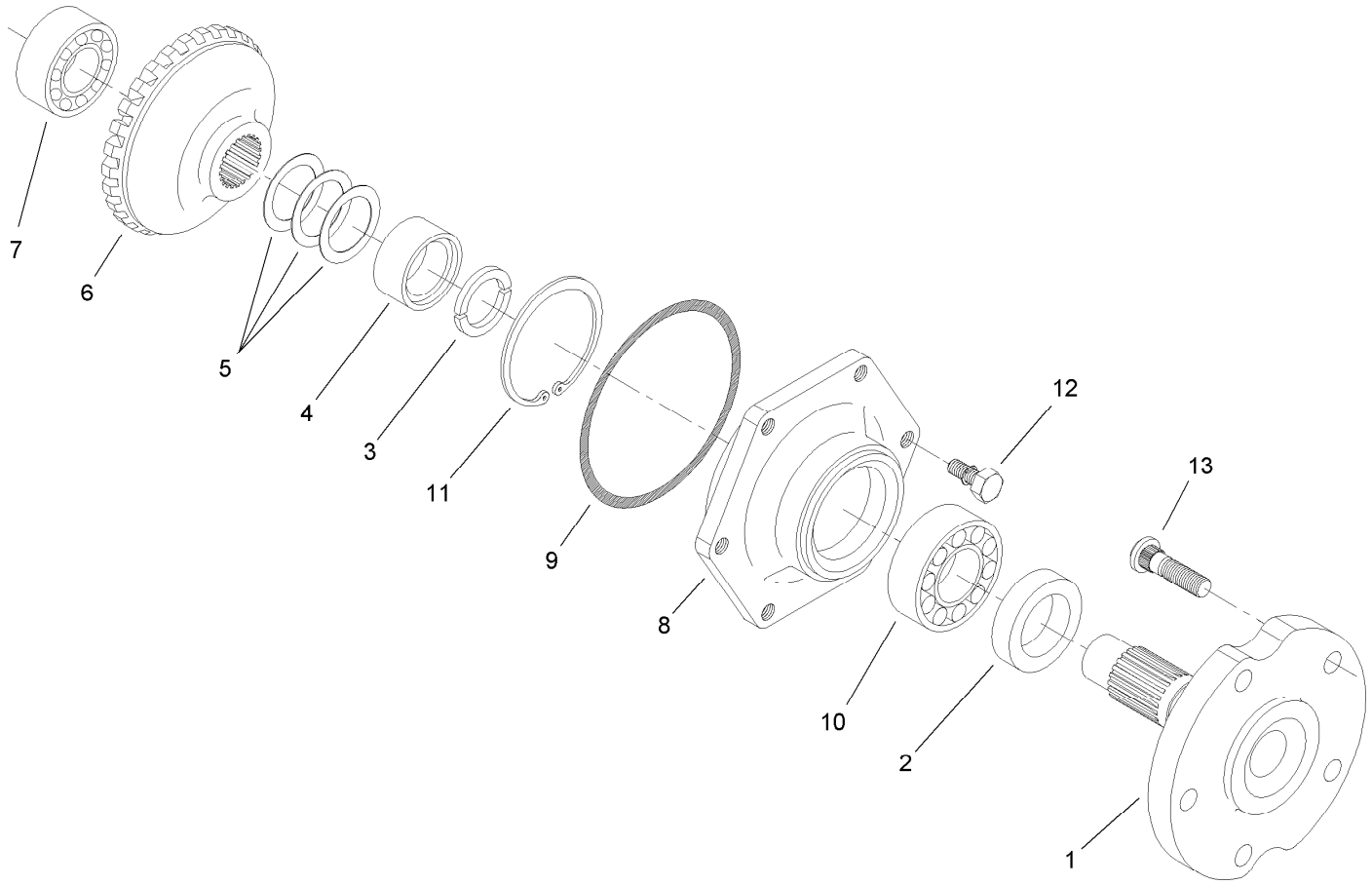

# Bevel Gear Shaft Assembly
# Rear Axle Assembly No. 110-4750

| *Ref.* | *Part Number* | *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 |



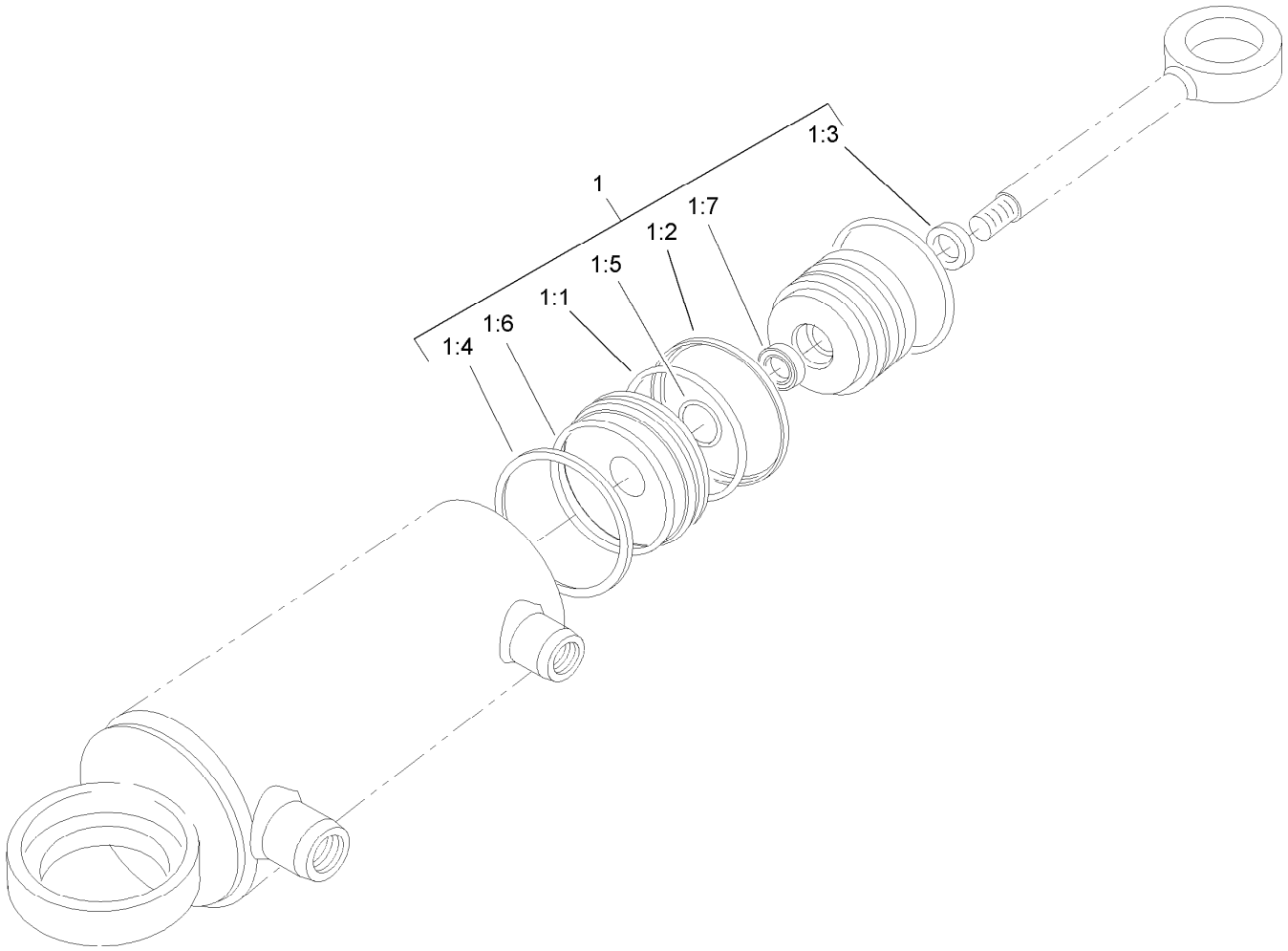

# Axle Case Assembly
# Rear Axle Assembly No. 110-4750

| *Ref.* | *Part Number* | *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

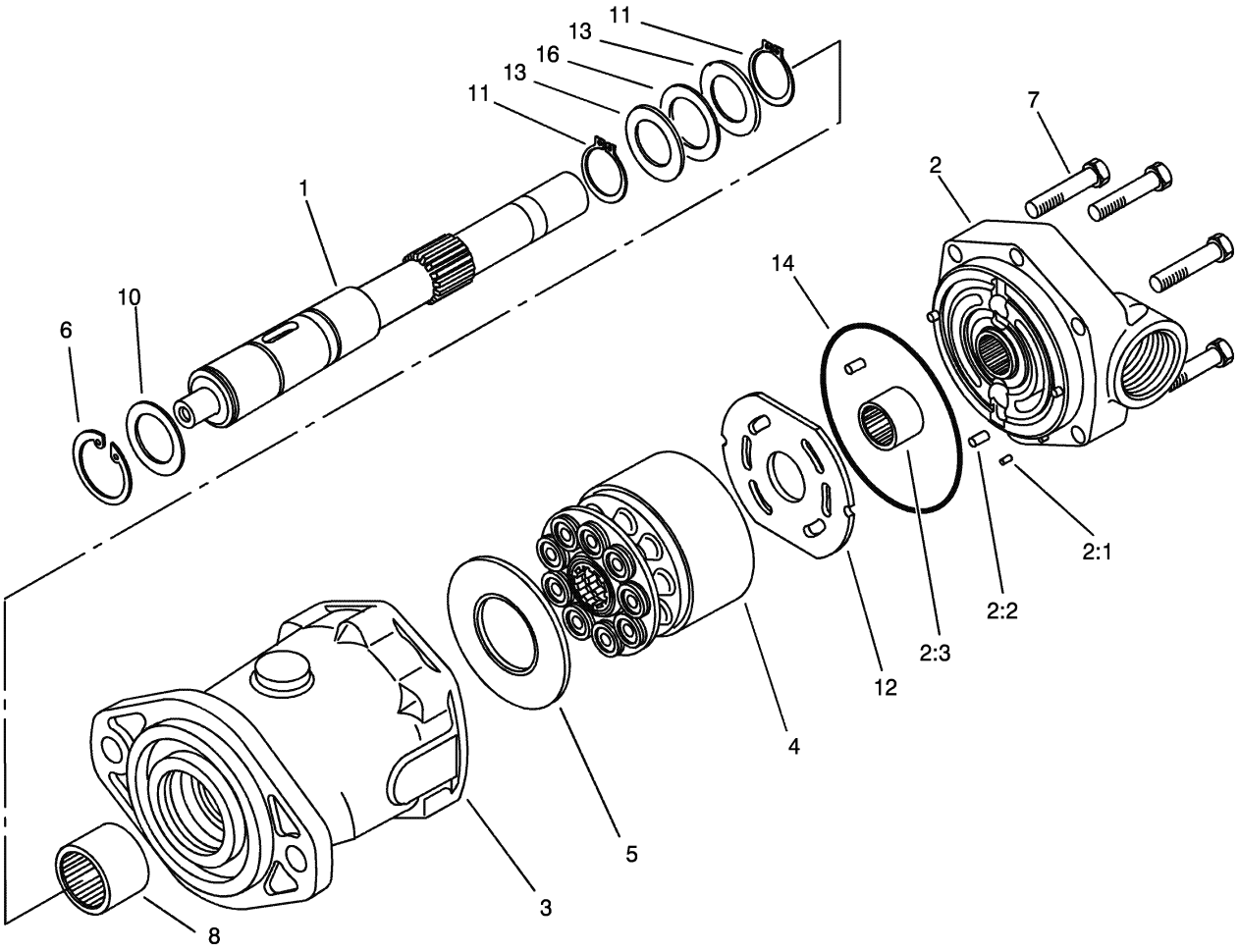
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 95-7522 | 2 | Axle |
| 2 | 99-7564 | 2 | Seal-Oil |
| 3 | 95-7544 | 4 | Clip |
| 4 | 95-7523 | 2 | Spacer |
| 5 | 99-7555 | 2 | Shim 0.3 |
| 5 | 99-7556 | 2 | Shim 0.2 |
| 5 | 99-7557 | 2 | Shim 0.5 |
| 6 | 95-7524 | 2 | Gear-Bevel, 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 |




# Hydraulic Cylinder Assembly No. 105-9861

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 107-0245 | 1 | Seal Kit |
| 1:1 | | 1 | O-Ring ● |
| 1:2 | | 1 | Back-Up ● |
| 1:3 | | 1 | Wiper ● |
| 1:4 | | 1 | Seal ● |
| 1:5 | | 1 | O-Ring ● |
| 1:6 | | 1 | O-Ring ● |
| 1:7 | | 1 | Seal ● |

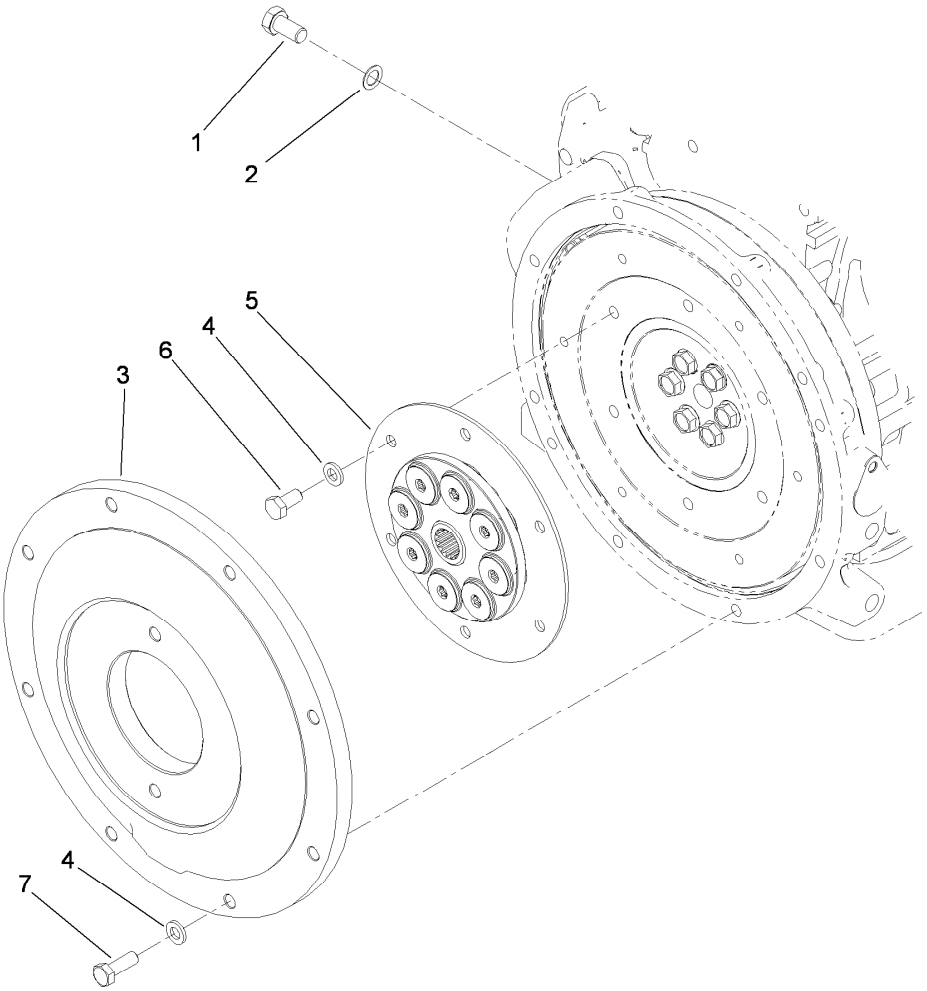
● Not serviced separately




# Piston Motor Assembly No. 105-1219

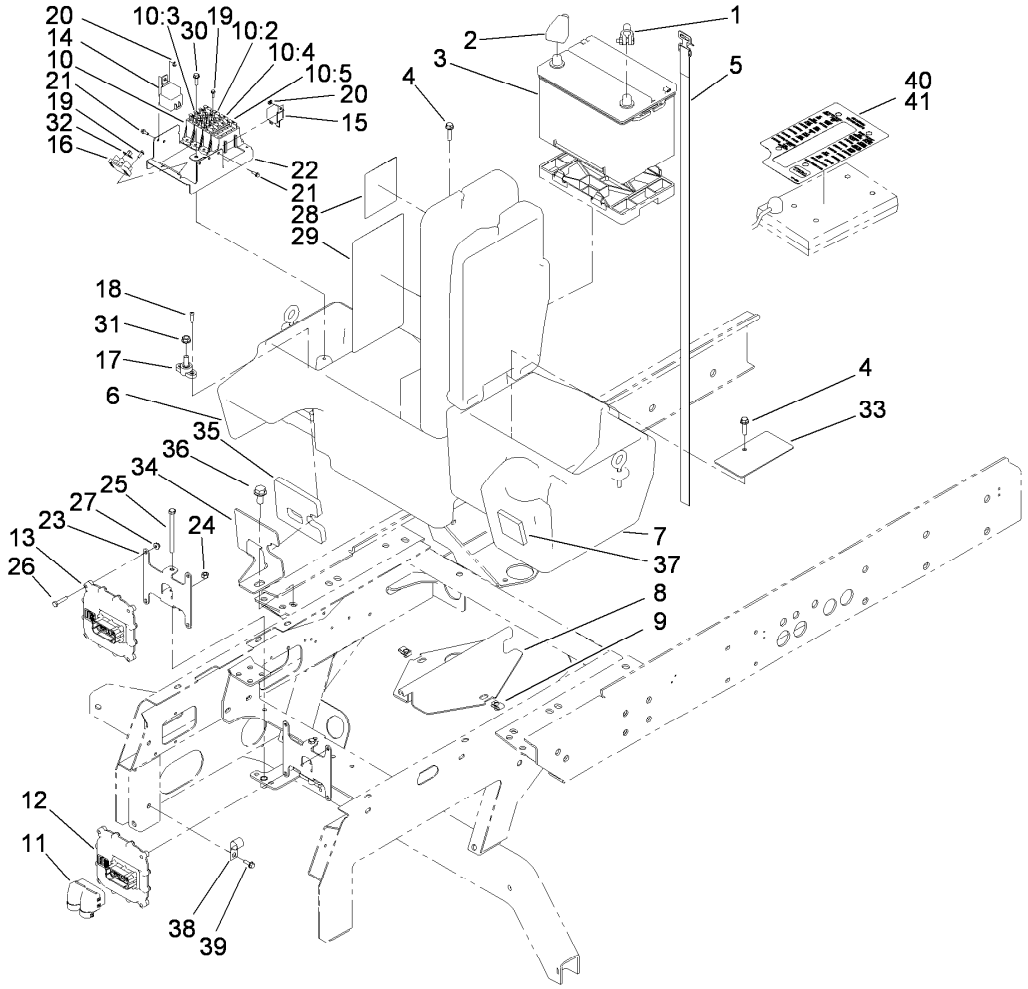
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 105-2853 | 1 | Shaft-Drive |
| 2 | 100-2551 | 1 | Backplate |
| 2:1 | | 3 | Pin-Dowel ● |
| 2:2 | | 1 | Pin-Dowel ● |
| 2:3 | | 1 | Bearing-Needle ● |
| 3 | | 1 | Housing ● |
| 4 | 76-6910 | 1 | Rotating Kit |
| 5 | 76-6970 | 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 |

● Not serviced separately




# Flywheel Coupler Assembly

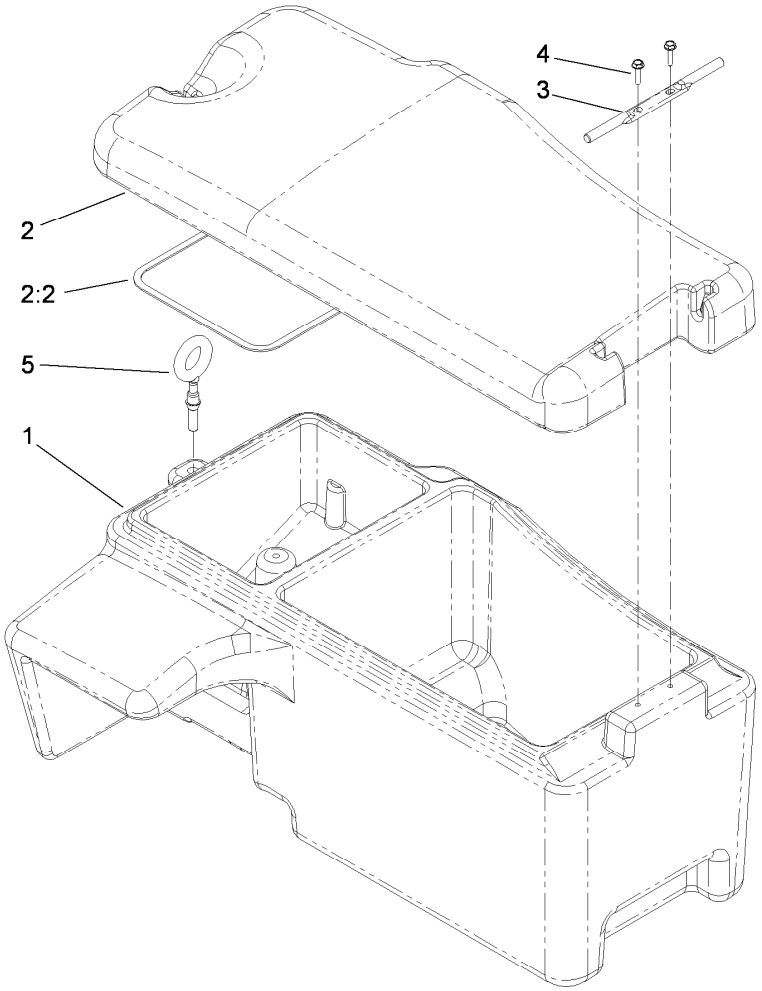
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 42-9250 | 1 | Bolt |
| 2 | 3255-2 | 1 | Washer-Lock / EXT |
| 3 | 114-3835 | 1 | Plate-Flywheel |
| 4 | 107-1413 | 14 | Washer-Hardened |
| 5 | 114-3848 | 1 | Coupler-Spring, Flywheel |
| 6 | 99-5130 | 6 | Bolt |
| 7 | 117-5663 | 8 | Screw-HH |




# Power Center, Battery and Storage Box Assembly

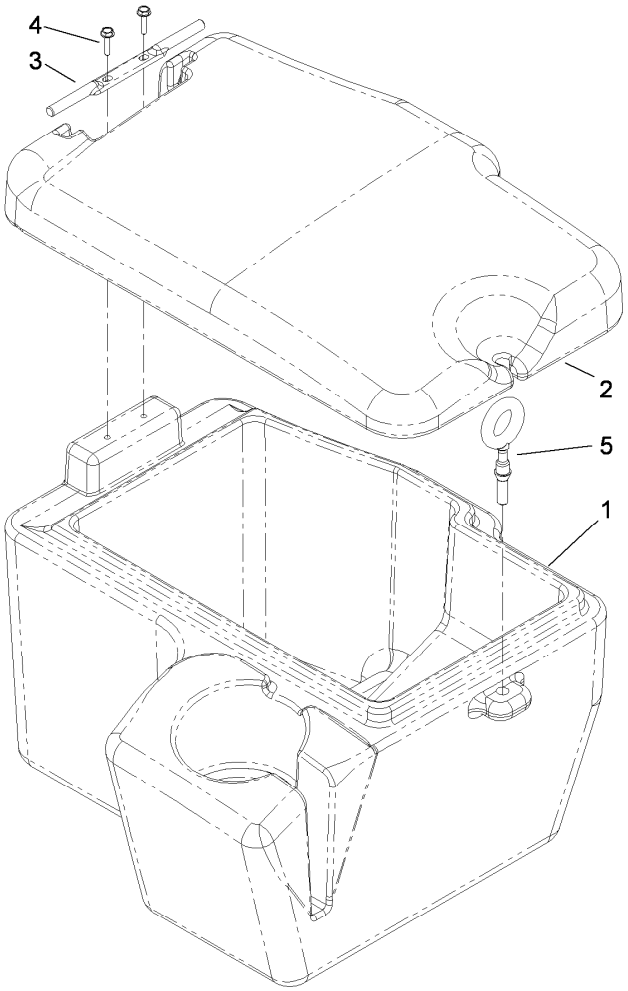
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 117-2377 | 1 | Cable-Battery, Negative |
| 2 | 117-2376 | 1 | Cable-Battery, Positive |
| 3 | 106-5190 | 1 | Battery |
| 4 | 115-1794 | 2 | Screw-HHF |
| 5 | 3339-175 | 1 | Strapping-Web, 48 Inch |
| 6 | 115-9100 | 1 | Battery Storage Box ASM |
| 7 | 115-9101 | 1 | Storage Box ASM |
| 8 | 115-4387-03 | 1 | Support-Box, Storage |
| 9 | 112-3306 | 2 | Nut |
| 10 | 115-9106 | 1 | Harness-Power Center |
| 10:2 | 94-6710 | 2 | Fuse-2 Amp |
| 10:3 | 114241 | 6 | Fuse-Blade, 7.5 Amp |
| 10:4 | 218-578 | 4 | Fuse-Blade, 10 Amp |
| 10:5 | 109101 | 1 | Fuse-Blade, 20 Amp |
| 11 | 115-9108 | 1 | Harness-Wire |
| 12 | 114-3321 | 1 | Controller-Tec |
| 13 | 115-1900 | 1 | Controller-Tec, 5001 |
| 14 | 99-7430 | 1 | Relay |
| 15 | 99-7435 | 3 | Relay-Power |
| 16 | 42862 | 1 | Block-Terminal, Ground |
| 17 | 110-8822 | 1 | Block-Junction |
| 18 | 93-0231 | 2 | Screw-PPH |
| 19 | 32144-87 | 6 | Screw-HWHTF |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 20 | 3296-54 | 5 | Nut-Lock |
| 21 | 112-3169 | 5 | Screw-HHF, Serrated |
| 22 | 115-4356-03 | 1 | Mount-Fuse Block |
| 23 | 117-2360-03 | 2 | Bracket-Mount, Controller |
| 24 | 3217-6 | 2 | Nut-Hex |
| 25 | 322-19 | 2 | Screw-HH |
| 26 | 321-8 | 8 | Screw-HH |
| 27 | 104-7201 | 8 | Nut-HF |
| 28 | 117-4761 | 1 | Decal-Fuse |
| 29 | 117-4758 | 1 | Decal-Service |
| 30 | 46-8091 | 1 | Screw-HWH |
| 31 | 3290-357 | 1 | Nut-HHF, Whiz |
| 32 | 42863 | 1 | Strip-Jumper |
| 33 | 117-4768-03 | 1 | Plate-Box, Storage |
| 34 | 117-4774-03 | 1 | Clamp |
| 35 | 117-4775 | 1 | Seal-Battery Box |
| 36 | 3234-6 | 1 | Screw-HHF |
| 37 | 117-4783 | 2 | Seal-Foam |
| 38 | 2412-150 | 1 | Clip-J |
| 39 | 3234-4 | 1 | Screw-HHF |
| 40 | 117-4795 | 1 | Decal-Diagnostic, Controller |
| 41 | 117-4796 | 1 | Decal-Diagnostic, Controller |



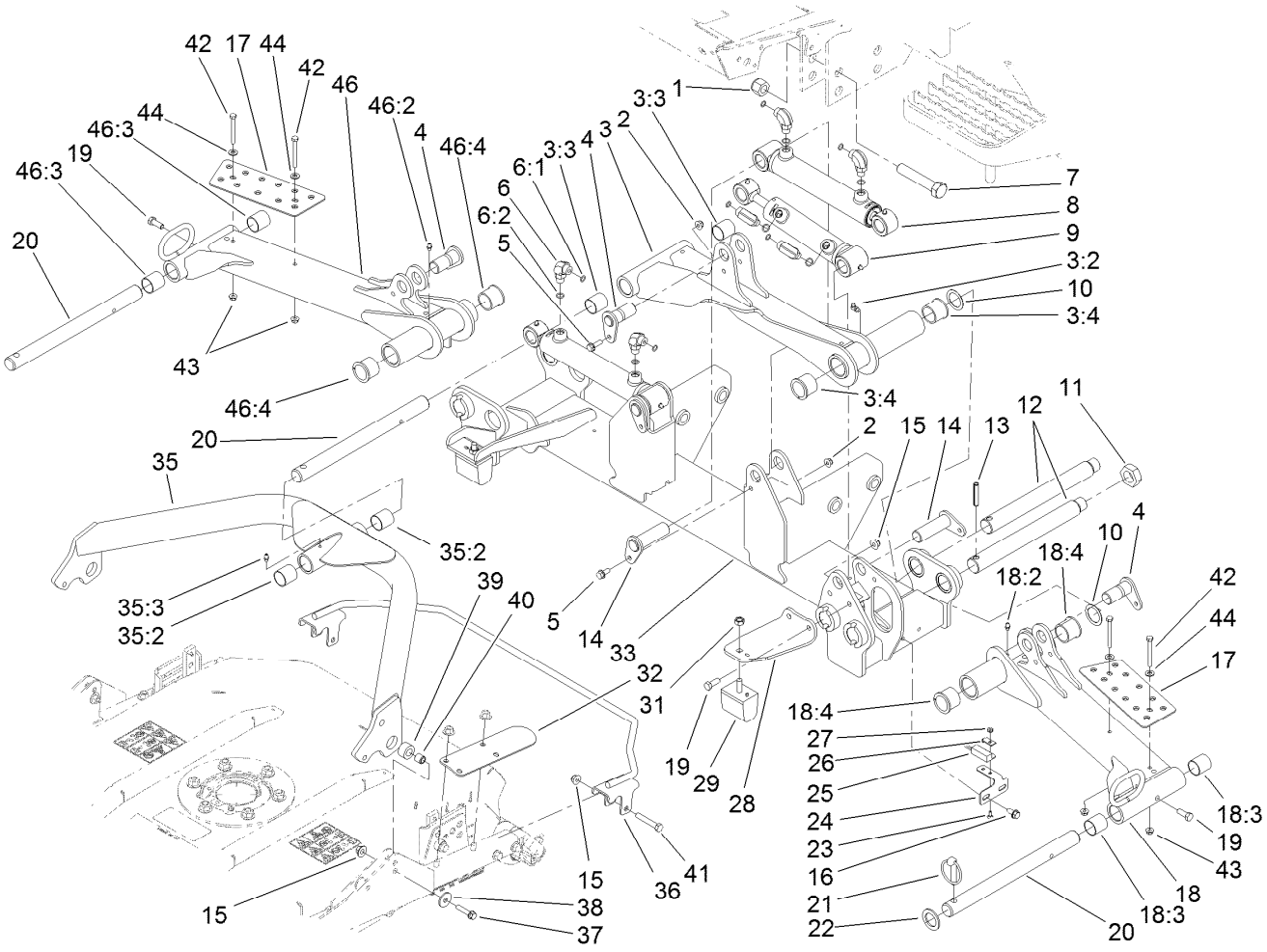

# Battery Storage Box Assembly No. 115-9100

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 114-8124 | 1 | Box-Storage, RH |
| 2 | 115-4368 | 1 | Cover ASM |
| 2:2 | 115-4367 | 1 | Seal-Cover |
| 3 | 114-8132 | 1 | Hinge-Cover |
| 4 | 98-1375 | 2 | Screw-HWH |
| 5 | 115-4366 | 1 | Latch-Rubber |




# Storage Box Assembly No. 115-9101

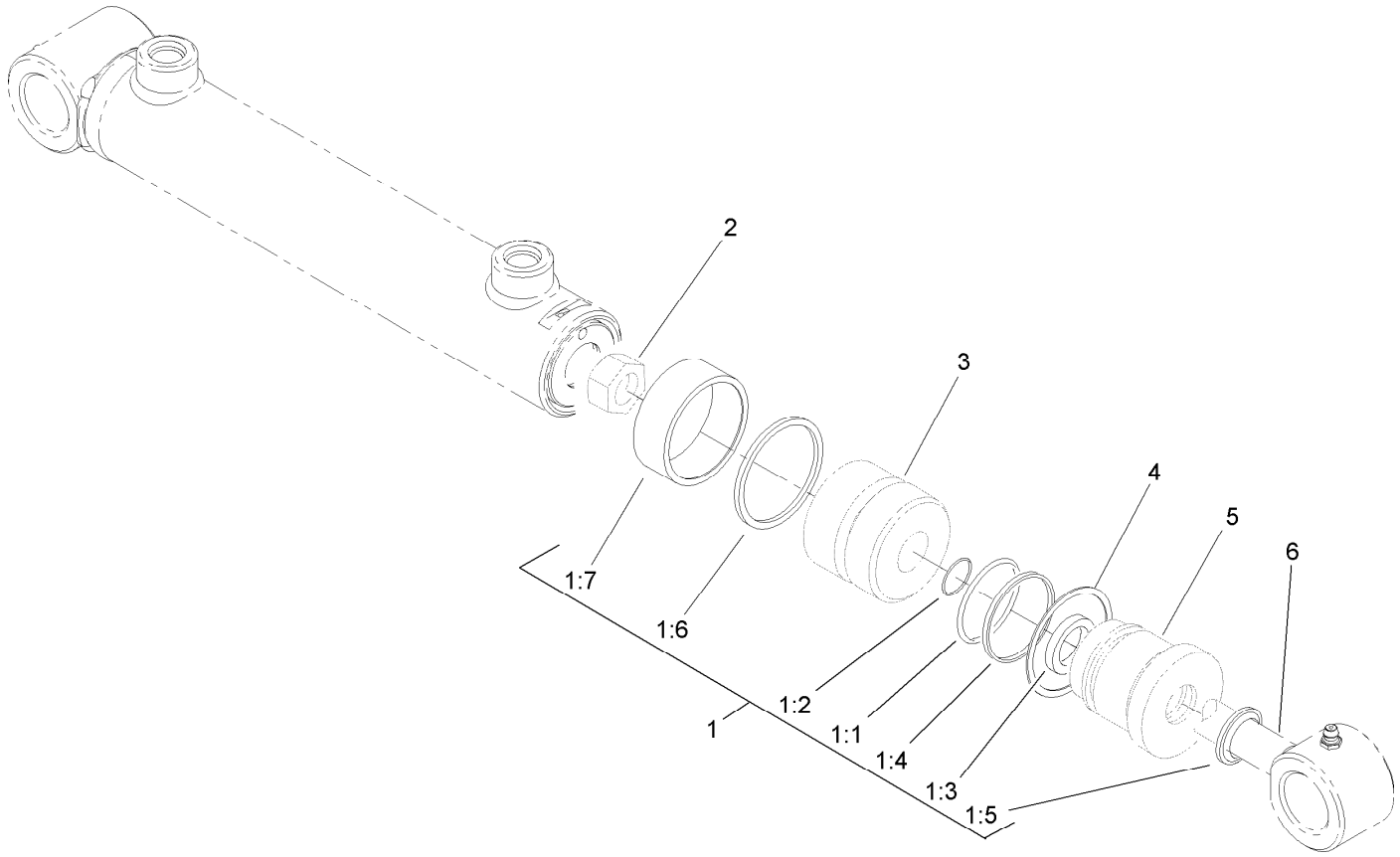
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 114-8123 | 1 | Box-Storage, LH |
| 2 | 114-8125 | 1 | Cover-Storage Box, LH |
| 3 | 114-8132 | 1 | Hinge-Cover |
| 4 | 98-1375 | 2 | Screw-HWH |
| 5 | 115-4366 | 1 | Latch-Rubber |




# Front Lift Arm Assembly

| Ref. | Part Number | 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 |
| 3:3 | 108-4000 | 2 | Bushing |
| 3:4 | 104-0015 | 2 | Bushing-Flange |
| 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 | Lift Cylinder ASM |
| 9 | 107-1980 | 1 | Lift Cylinder ASM |
| 10 | 76-2980 | 6 | 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 | 28 | Nut-Flange, NI |
| 16 | 32104-32 | 4 | Screw-HWH |
| 17 | 105-3987-03 | 2 | Plate-Skid |
| 18 | 108-4033 | 1 | No. 4 Liftarm ASM |
| 18:2 | 302-5 | 1 | Fitting-Grease |
| 18:3 | 108-4000 | 2 | Bushing |
| 18:4 | 104-0015 | 2 | Bushing-Flange |
| 19 | 323-7 | 5 | Screw-HH |
| 20 | 108-4023 | 3 | Shaft-Carrier, Pivot |

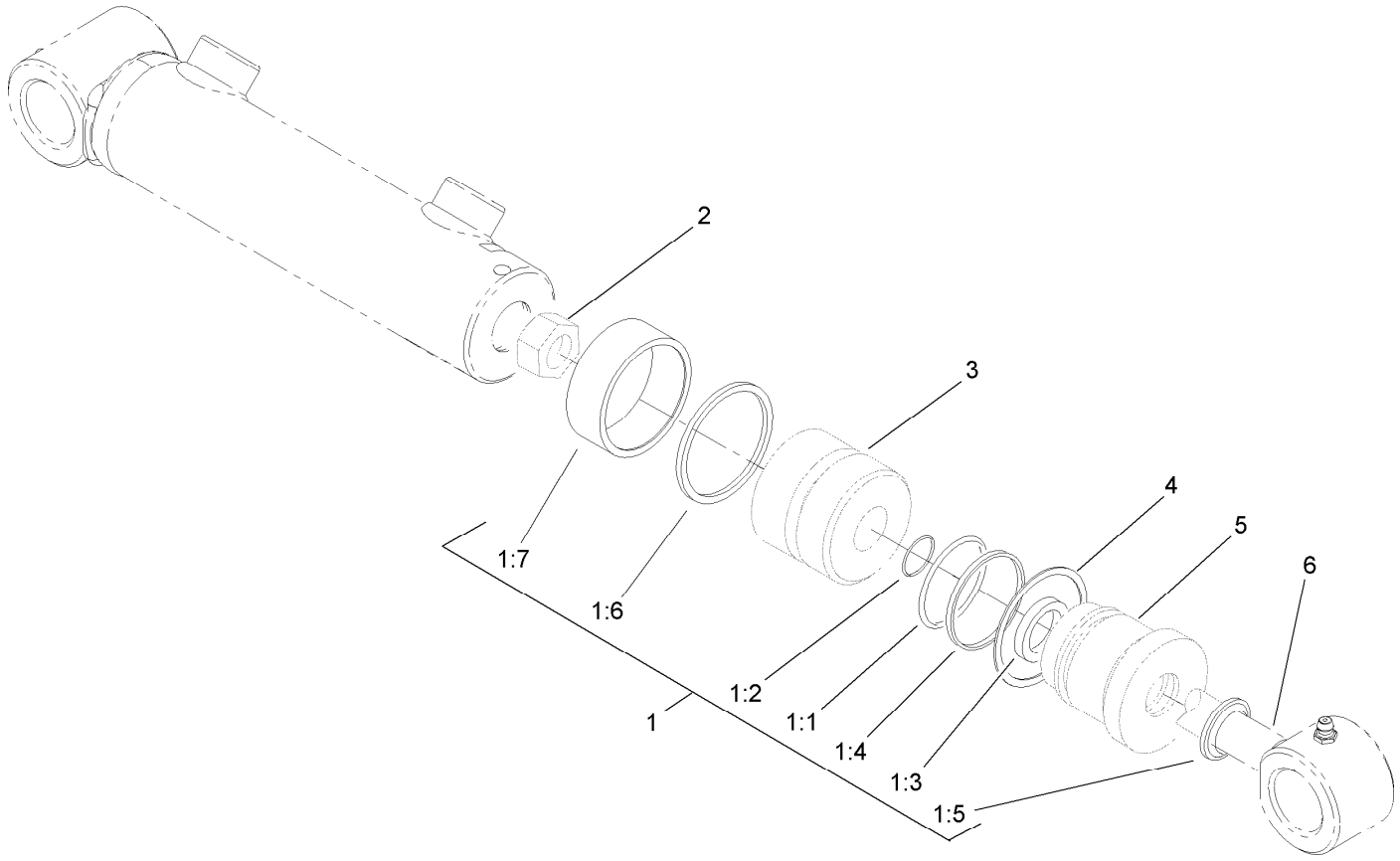
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 21 | 283-71 | 3 | Pin-Lynch |
| 22 | 3-6781 | 3 | Washer-Thrust |
| 23 | 104-1450 | 2 | Bolt-CARR |
| 24 | 104-5585 | 2 | Bracket-Switch |
| 25 | 106-9288 | 2 | Sensor-Proximity, Ferrous |
| 26 | 100-4872 | 2 | Plate-Switch, Neutral |
| 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, NI |
| 32 | 105-9831-03 | 2 | Bracket-Bumper, No. 1 |
| 33 | 104-5680-03 | 1 | Frame-Carrier, Front |
| 35 | 115-3453 | 7 | Carrier Frame ASM |
| 35:2 | 108-4000 | 2 | Bushing |
| 35:3 | 302-5 | 1 | Fitting-Grease |
| 36 | 112-9900-03 | 6 | Guard-Foot |
| 37 | 323-52 | 14 | Screw-HH |
| 38 | 93-8806 | 14 | Washer-Hardened |
| 39 | 105-9823 | 14 | Bushing-Carrier |
| 40 | 105-9822 | 14 | Spacer |
| 41 | 323-11 | 12 | Screw-HH |
| 42 | 321-15 | 4 | Screw-HH |
| 43 | 32128-33 | 4 | Nut-HF |
| 44 | 3256-23 | 4 | Washer-Flat |
| 46 | 108-4034 | 1 | No. 5 Liftarm ASM |
| 46:2 | 302-5 | 1 | Fitting-Grease |
| 46:3 | 108-4000 | 2 | Bushing |
| 46:4 | 104-0015 | 2 | Bushing-Flange |




# Hydraulic Cylinder Assembly No. 107-1979

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 107-1977 | 1 | Seal Kit |
| 1:1 | | 1 | O-Ring ● |
| 1:2 | | 1 | O-Ring ● |
| 1:3 | | 1 | Seal ● |
| 1:4 | | 1 | Back-Up ● |
| 1:5 | | 1 | Wiper ● |
| 1:6 | | 1 | Seal W/O-Ring ● |
| 1:7 | | 1 | Ring-Wear ● |
| 2 | | 1 | Locknut ● |
| 3 | | 1 | Piston ● |
| 4 | | 1 | Ring-Retaining ● |
| 5 | | 1 | Head ● |
| 6 | | 1 | Rod ASM ● |

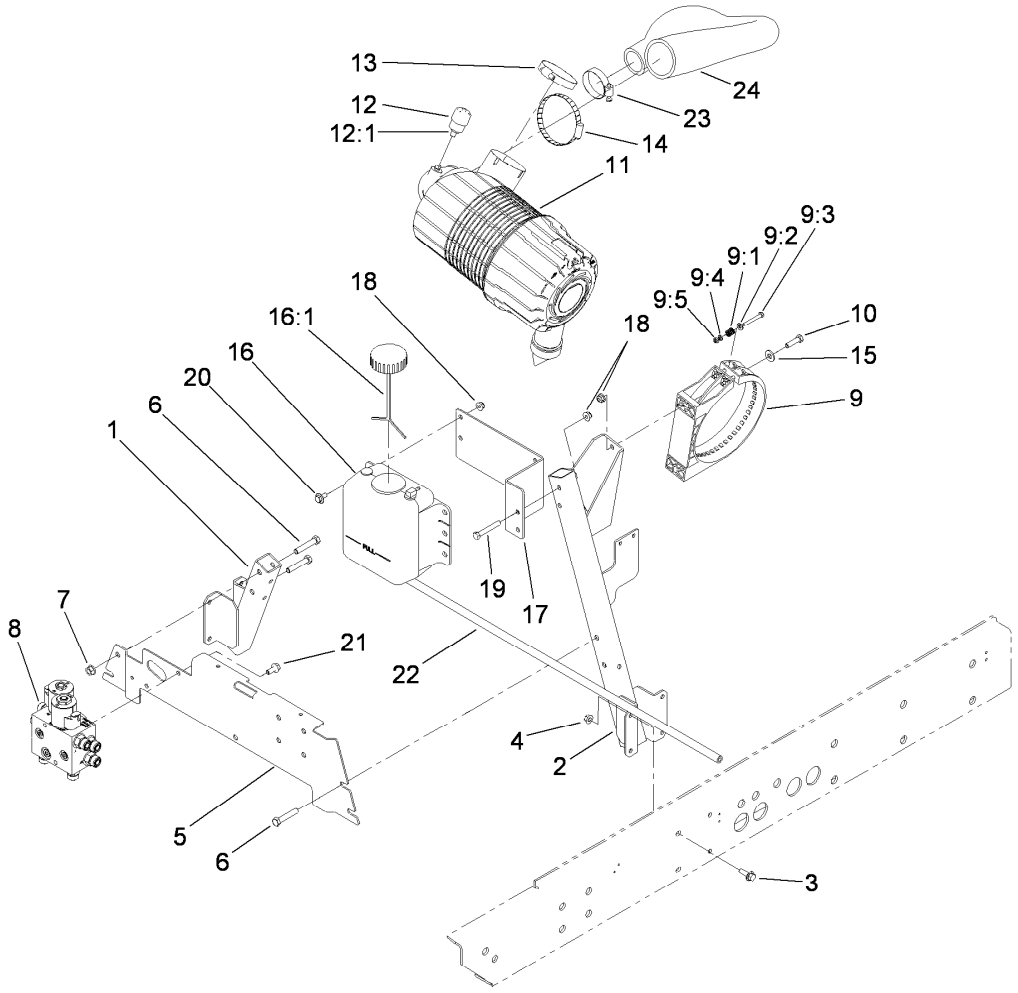
● Not serviced separately




# Hydraulic Cylinder Assembly No. 107-1980

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 107-1977 | 1 | Seal Kit |
| 1:1 | | 1 | O-Ring ● |
| 1:2 | | 1 | O-Ring ● |
| 1:3 | | 1 | Seal ● |
| 1:4 | | 1 | Back-Up ● |
| 1:5 | | 1 | Wiper ● |
| 1:6 | | 1 | Seal W/O-Ring ● |
| 1:7 | | 1 | Ring-Wear ● |
| 2 | | 1 | Locknut ● |
| 3 | | 1 | Piston ● |
| 4 | | 1 | Ring-Retaining ● |
| 5 | | 1 | Head ● |
| 6 | | 1 | Rod ASM ● |

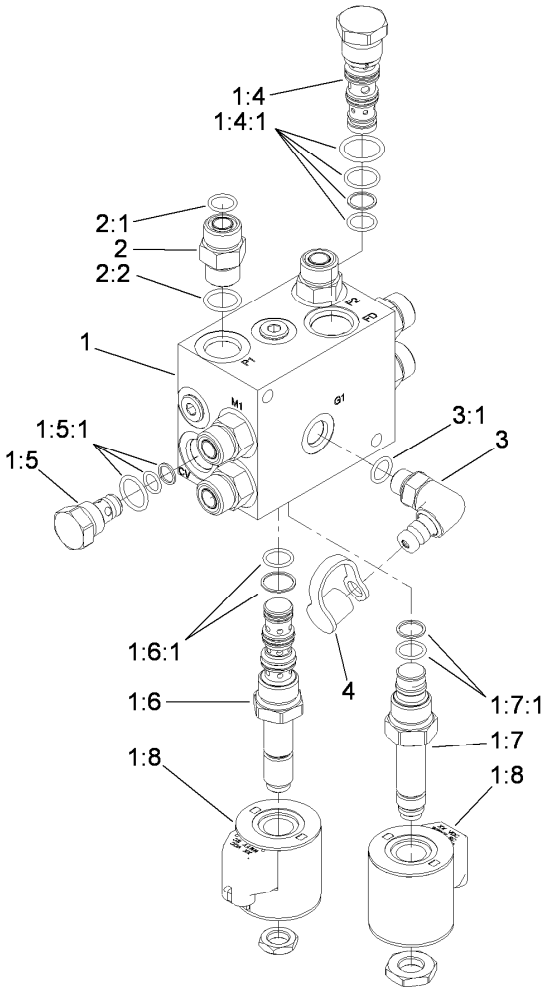
● Not serviced separately




# Air Cleaner and Manifold Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 104-5420-03 | 1 | Support-Battery |
| 2 | 104-5417-03 | 1 | Bracket-Conditioner, Air |
| 3 | 3234-29 | 8 | Screw-HHF |
| 4 | 32128-20 | 8 | Nut-HF |
| 5 | 114-8134-03 | 1 | Bracket-Support |
| 6 | 323-10 | 4 | Screw-HH |
| 7 | 32128-21 | 4 | Nut-HF |
| 8 | 117-2395 | 1 | Fan Drive Manifold ASM |
| 9 | 99-5414 | 1 | Strap-Cleaner, Air |
| 9:1 | 108-1512 | 2 | Spring |
| 9:2 | 3256-22 | 2 | Washer-Flat |
| 9:3 | 33113-050 | 2 | Screw-HH |
| 9:4 | 33093-00 | 2 | Washer-Flat |
| 9:5 | 33023-00 | 2 | Nut-Lock |
| 10 | 322-6 | 2 | Screw-HH |
| 11 | 99-5410 | 1 | Cleaner-Air |

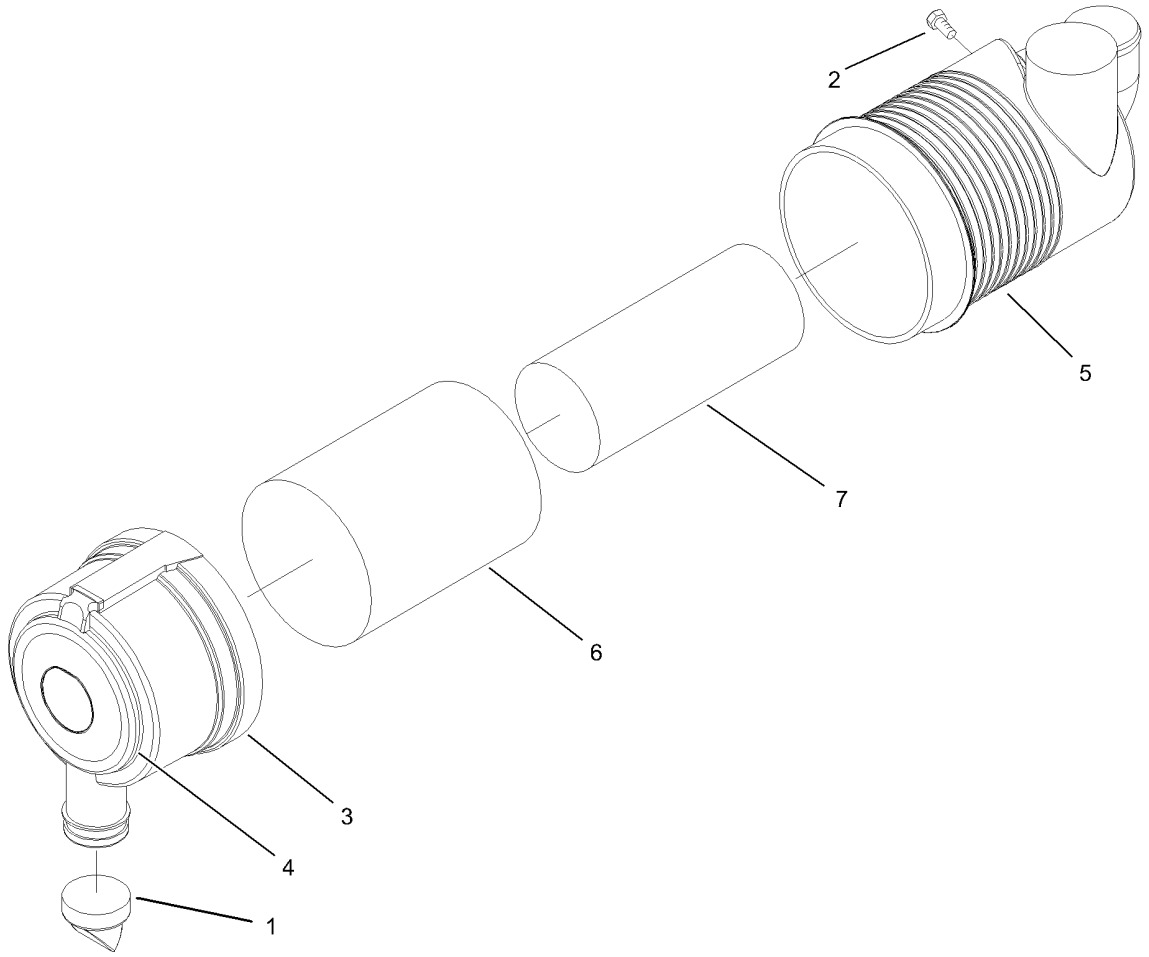
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 12 | 104-3563 | 1 | Indicator |
| 12:1 | 94-1416 | 1 | Indicator Adapter ASM |
| 13 | 2412-125 | 1 | Clamp-Hose |
| 14 | 2412-110 | 1 | Clamp-Hose |
| 15 | 3256-3 | 2 | Washer-Flat |
| 16 | 104-2276 | 1 | Reservoir-Coolant |
| 16:1 | 87-7050 | 1 | Cap-Reservoir |
| 17 | 114-4187-03 | 1 | Bracket-Tank |
| 18 | 104-8300 | 8 | Nut-Flange, NI |
| 19 | 322-11 | 2 | Screw-HH |
| 20 | 3234-47 | 4 | Screw-HHF |
| 21 | 100-1668 | 2 | Screw-Flange |
| 22 | 110-3258 | 1 | Hose-Fuel |
| 23 | 2412-92 | 1 | Clamp-Hose |
| 24 | 114-3838 | 1 | Hose-Air Cleaner |




# Fan Drive Manifold Assembly No. 117-2395

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | | 1 | Manifold-Fan Drive ● |
| 1:4 | 115-3024 | 1 | Flow Divider |
| 1:4:1 | 115-3025 | 1 | Seal Kit |
| 1:5 | 105-9321 | 1 | Valve-Check |
| 1:5:1 | 105-9156 | 1 | Seal Kit |
| 1:6 | 115-3023 | 1 | Valve-Solenoid |
| 1:6:1 | 110-8908 | 1 | Seal Kit |
| 1:7 | 115-3022 | 1 | Relief-Proportional |
| 1:7:1 | 110-6316 | 1 | Seal Kit |
| 1:8 | 110-6344 | 2 | Coil-12V, Dc |
| 2 | 340-4 | 7 | Fitting-HYD, Straight |
| 2:1 | 237-30 | 1 | O-Ring |
| 2:2 | 237-79 | 1 | O-Ring |
| 3 | 115-9148 | 1 | Fitting-Elbow-90 |
| 3:1 | 237-42 | 1 | O-Ring |
| 4 | 354-79 | 1 | Cap-Dust |

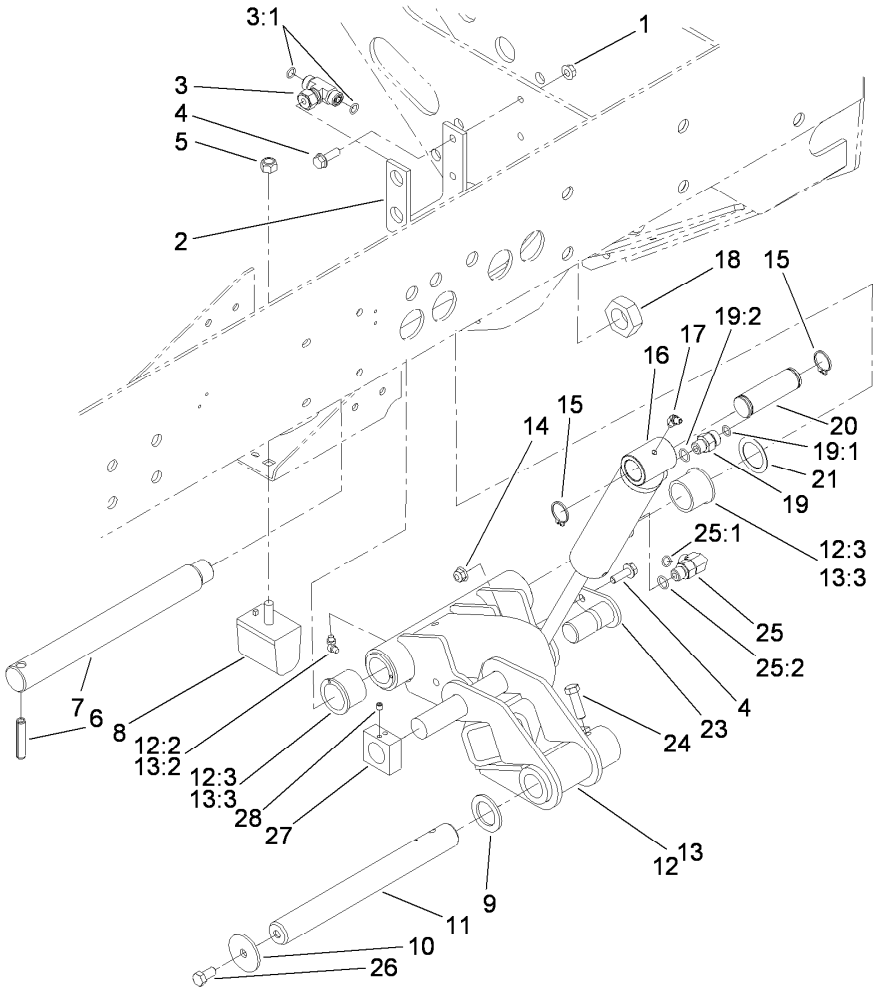
● Not serviced separately




# Air Cleaner Assembly No. 99-5410

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 104-4258 | 1 | Valve-Vacuator |
| 2 | | 1 | Plug-Pipe ● |
| 3 | 104-4259 | 1 | Cover ASM |
| 4 | | 1 | Marking ● |
| 5 | | 1 | Body ASM ● |
| 6 | 108-3814 | 1 | Filter-Air |
| 7 | 108-3816 | 1 | Filter-Air |

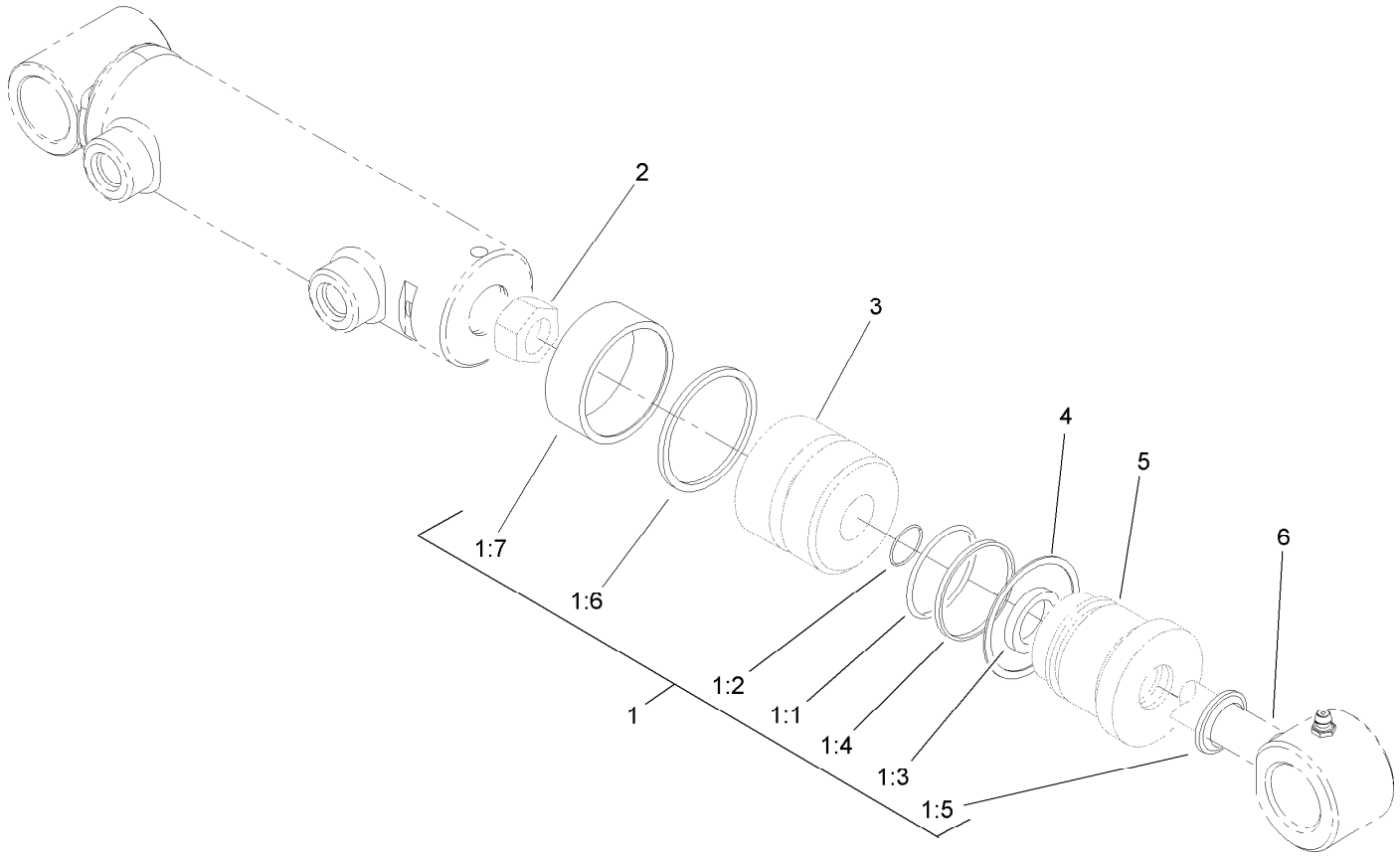
● Not serviced separately




# No. 2 and 3 Lift Arm Assembly

| Ref. | Part Number | 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 | 2 | O-Ring |
| 4 | 3234-17 | 4 | Screw-HHF |
| 5 | 33025-00 | 2 | Nut-Lock, NI |
| 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 |
| 12:3 | 104-0015 | 2 | Bushing-Flange |
| 13 | 105-9203 | 1 | No. 3 Lift Arm ASM |
| 13:2 | 302-60 | 1 | Fitting-Grease |
| 13:3 | 104-0015 | 2 | Bushing-Flange |

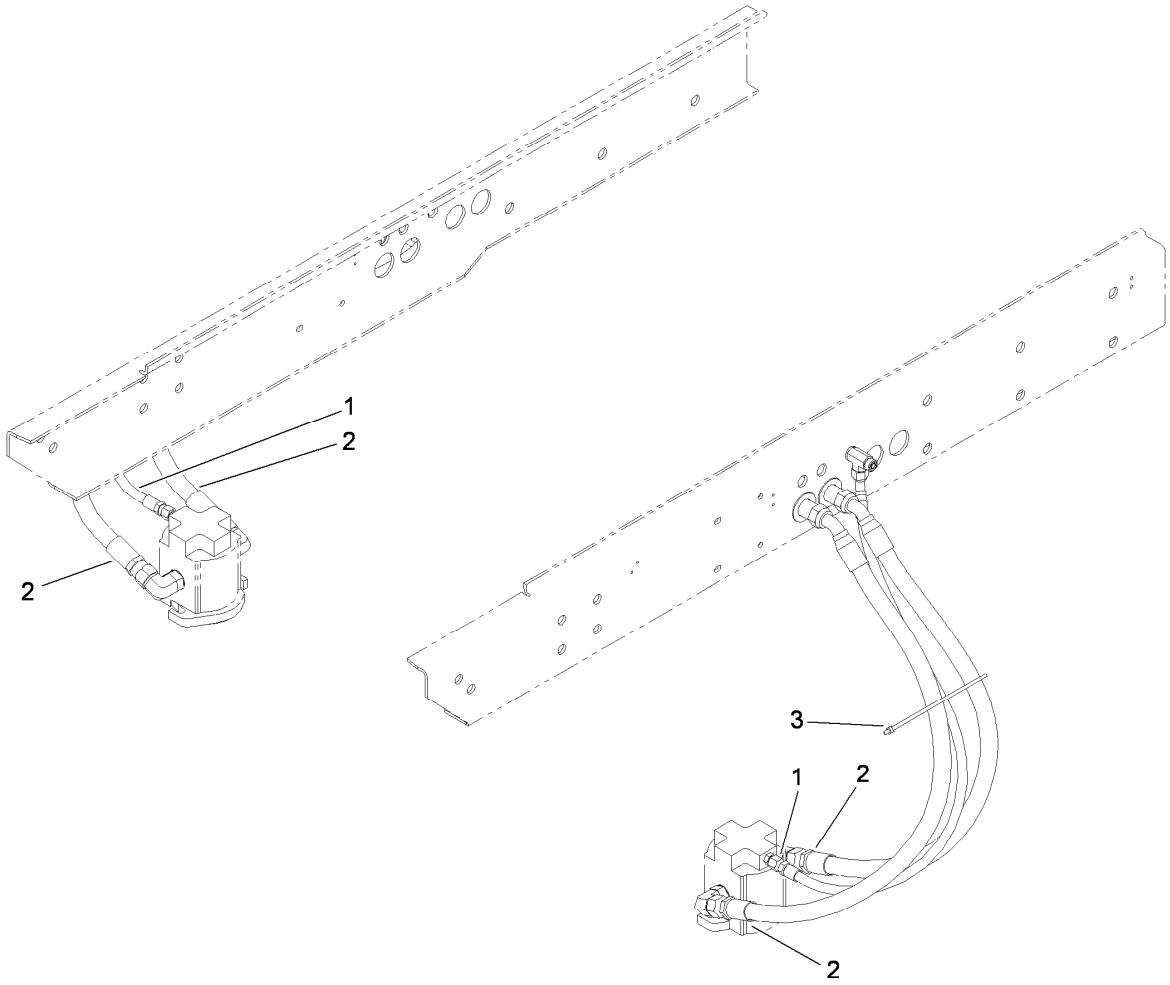
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 14 | 104-8300 | 2 | Nut-Flange, NI |
| 15 | 32151-36 | 4 | Ring-Retaining |
| 16 | 107-1978 | 2 | Cylinder-Lift |
| 17 | 302-11 | 2 | Fitting-Lube, 45 DEG |
| 18 | 3296-49 | 2 | Nut-Lock, NI |
| 19 | 340-2 | 2 | Fitting-HYD, Straight |
| 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 |
| 23 | 104-5525 | 2 | Cylinder Pin ASM |
| 24 | 323-7 | 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 | 3245-32 | 4 | Screw-HSH |




# Hydraulic Cylinder Assembly No. 107-1978

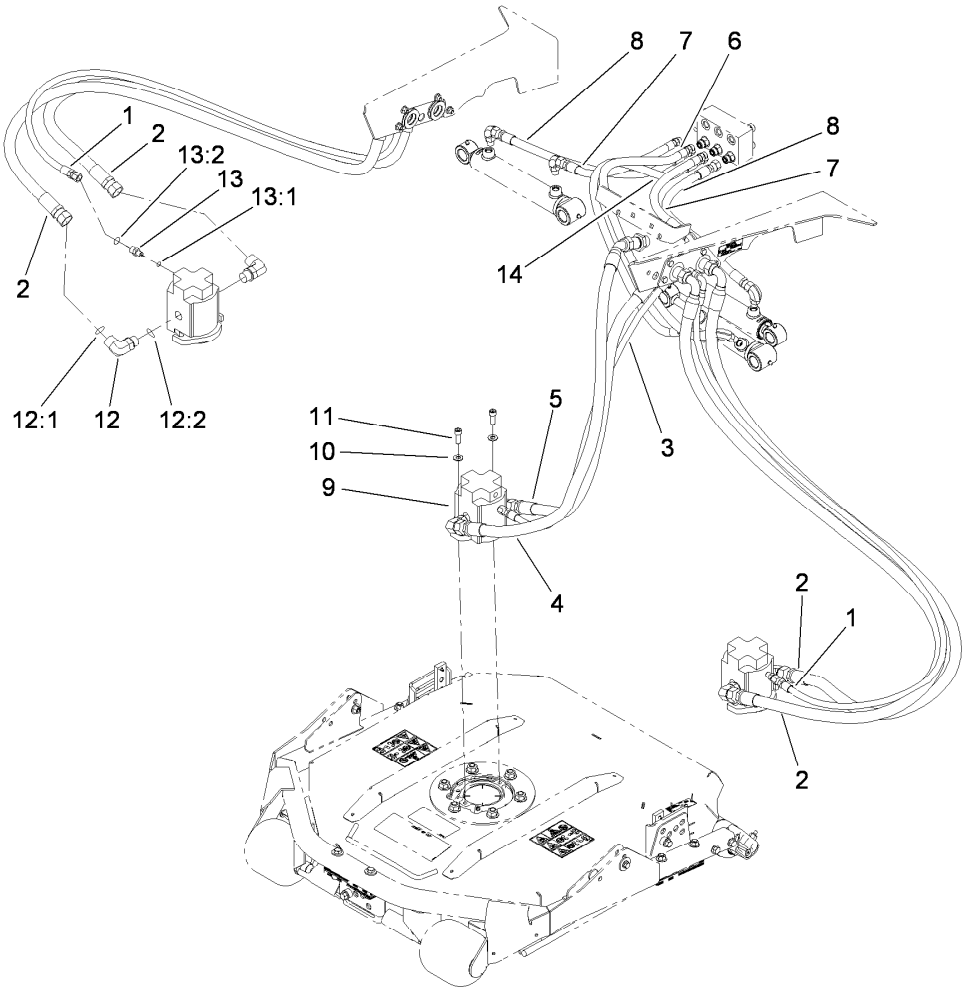
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 107-1977 | 1 | Seal Kit |
| 1:1 | | 1 | O-Ring ● |
| 1:2 | | 1 | O-Ring ● |
| 1:3 | | 1 | Seal ● |
| 1:4 | | 1 | Back-Up ● |
| 1:5 | | 1 | Wiper ● |
| 1:6 | | 1 | Seal W/O-Ring ● |
| 1:7 | | 1 | Ring-Wear ● |
| 2 | | 1 | Locknut ● |
| 3 | | 1 | Piston ● |
| 4 | | 1 | Ring-Retaining ● |
| 5 | | 1 | Head ● |
| 6 | | 1 | Rod ASM ● |

● Not serviced separately




# No. 2 and 3 Hose Installation Assembly

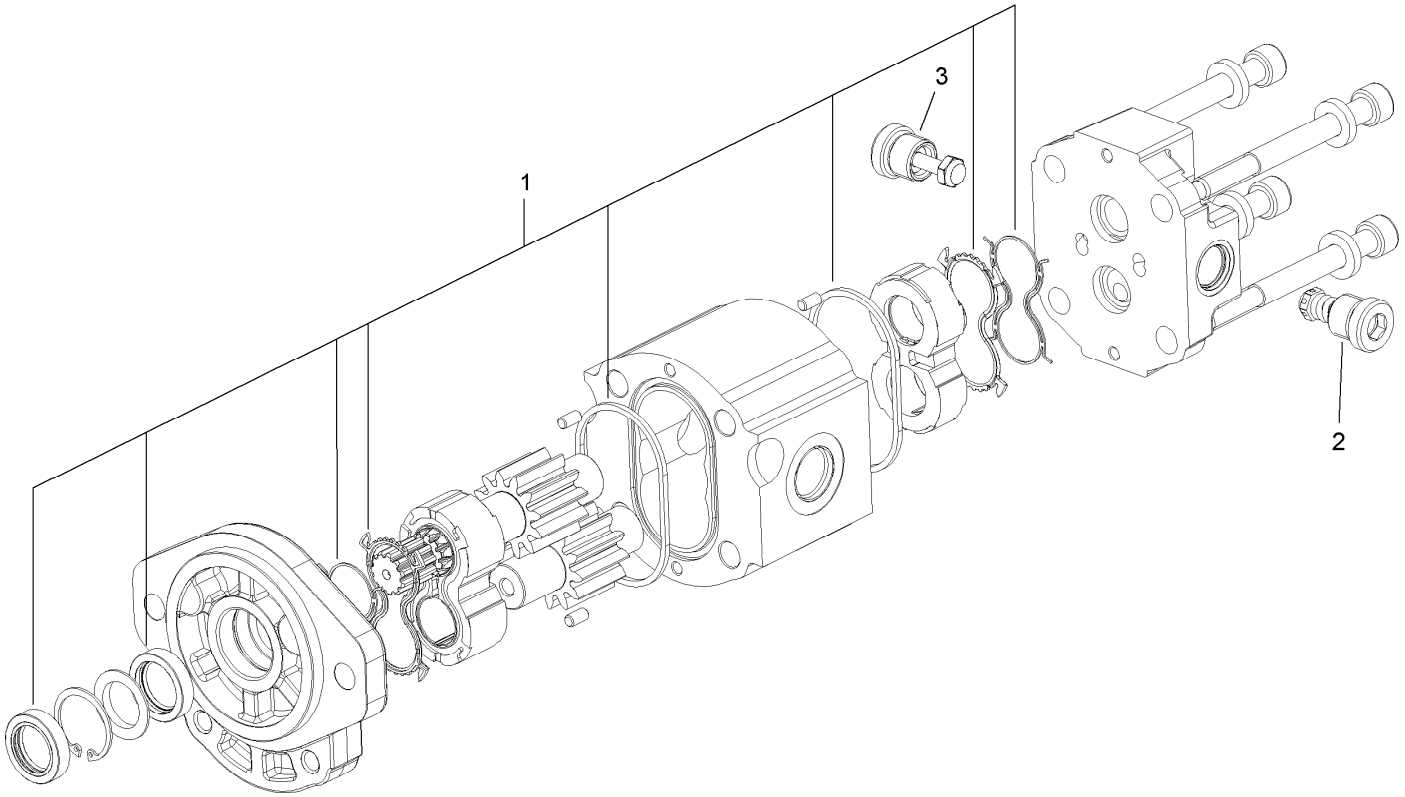
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 104-5502 | 2 | Hose ASM |
| 2 | 104-5505 | 4 | Hose ASM |
| 3 | 3290-379 | 2 | Tie-Cable |




# No. 1, 4 and 5 Hose Installation Assembly

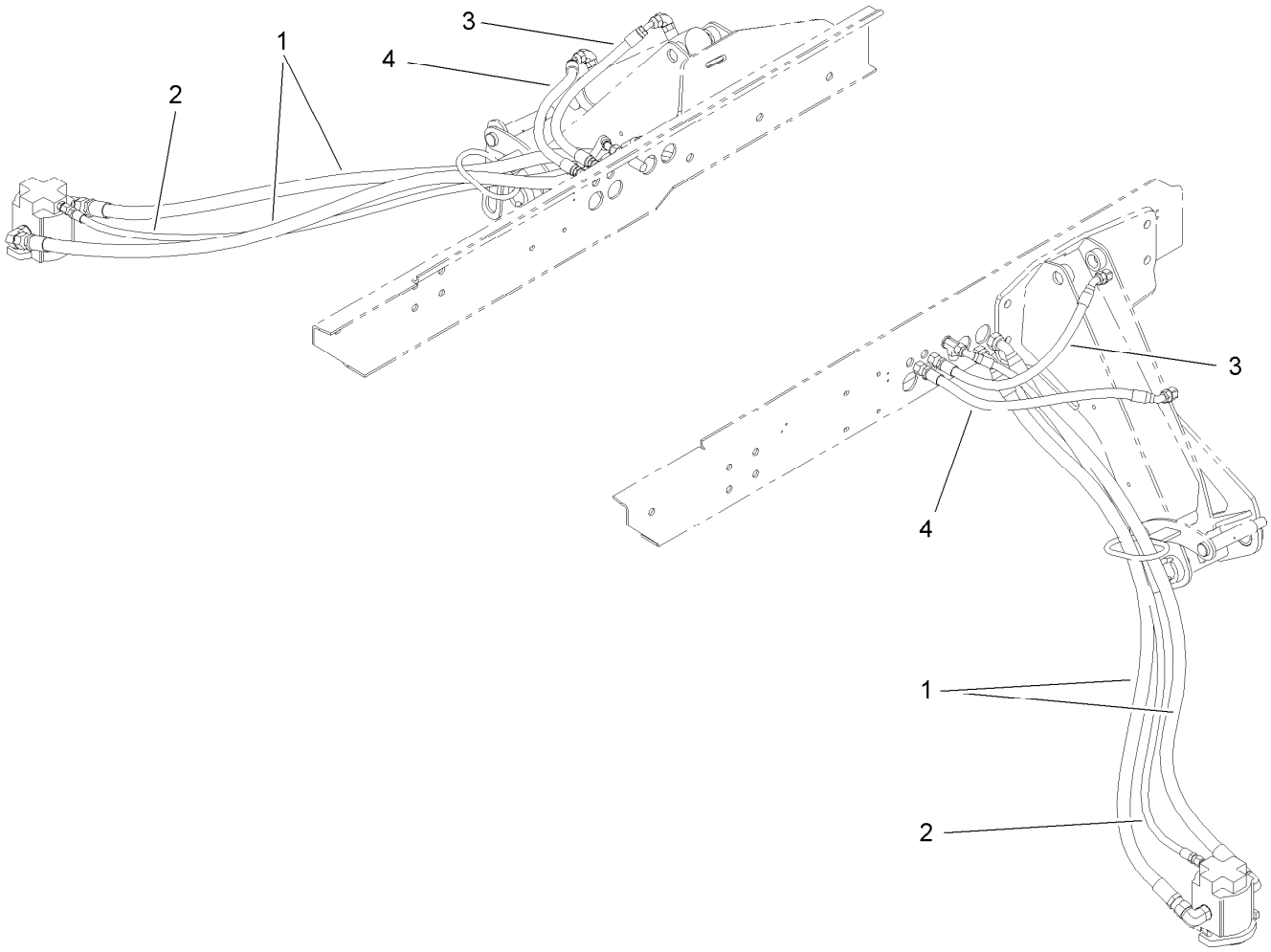
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 104-5500 | 2 | Hose ASM |
| 2 | 104-5501 | 4 | Hose ASM |
| 3 | 104-5502 | 1 | Hose ASM |
| 4 | 104-5504 | 1 | Hose ASM |
| 5 | 104-5505 | 1 | Hose ASM |
| 6 | 104-5511 | 1 | Hose ASM |
| 6:1 | 237-42 | 1 | O-Ring ● |
| 7 | 104-5512 | 2 | Hose ASM |
| 7:1 | 237-42 | 1 | O-Ring ● |
| 8 | 99-3579 | 2 | Hose ASM |
| 9 | 105-9872 | 7 | HYD Motor ASM |
| 10 | 3256-24 | 14 | Washer-Flat |
| 11 | 3274-7 | 14 | Screw-HSH |
| 12 | 340-17 | 14 | Fitting-HYD, 90 DEG |
| 12:1 | 237-65 | 1 | O-Ring |
| 12:2 | 237-80 | 1 | O-Ring |
| 13 | 340-92 | 7 | Fitting-HYD, Straight |
| 13:1 | 237-78 | 1 | O-Ring |
| 13:2 | 237-21 | 1 | O-Ring |
| 14 | 100-5629 | 1 | Hose ASM |

● Not illustrated




# Hydraulic Motor Assembly No. 105-9872

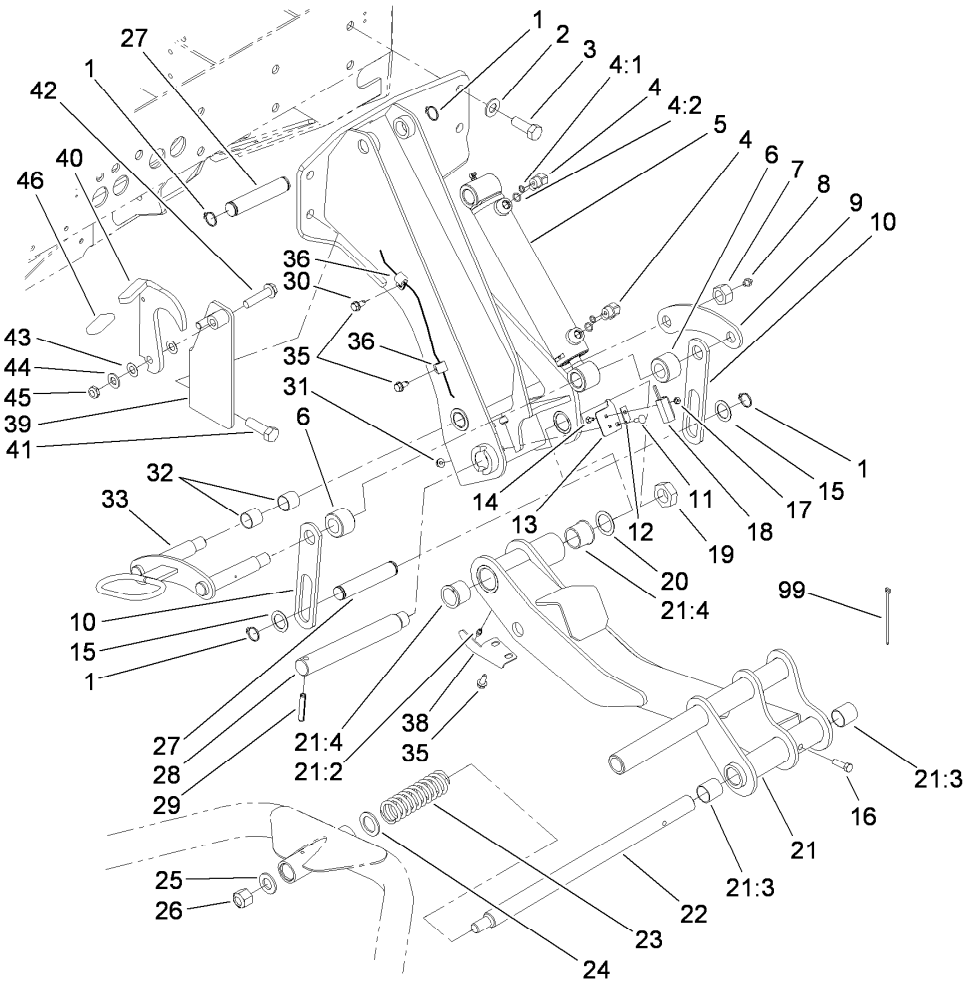
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 107-7819 | 1 | Seal Kit |
| 2 | 107-7820 | 1 | Valve-Relief |
| 3 | 107-7821 | 1 | Valve-Anticavitation |




# No. 6 and 7 Hose Installation Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 104-5498 | 4 | Hose ASM |
| 2 | 104-5499 | 2 | Hose ASM |
| 3 | 105-3918 | 2 | Hose ASM |
| 4 | 105-3919 | 2 | Hose ASM |

● Not illustrated

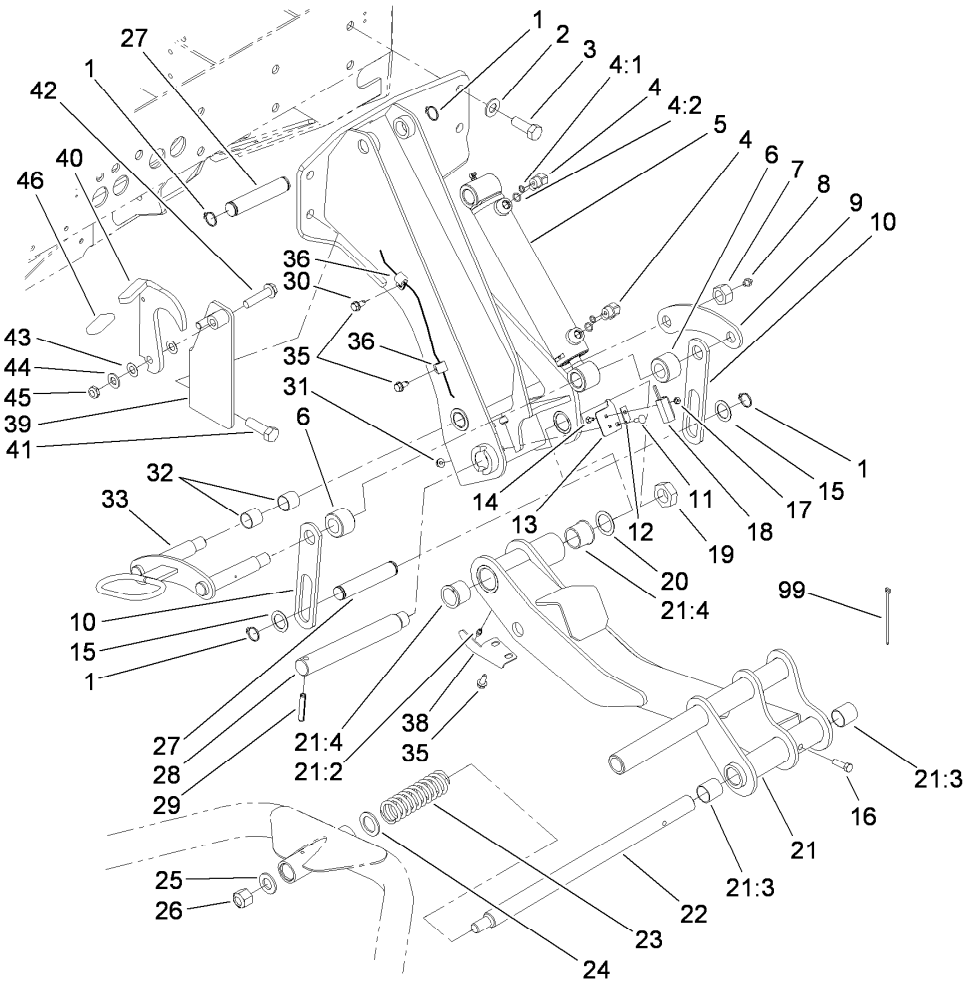



# No. 6 and 7 Lift Arm Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 32151-36 | 8 | Ring-Retaining |
| 2 | 99-7667 | 12 | Washer-Flat |
| 3 | 327-5 | 8 | Screw-HH |
| 4 | 340-77 | 4 | Fitting-HYD, 90 DEG |
| 4:1 | 237-22 | 1 | O-Ring |
| 4:2 | 237-42 | 1 | O-Ring |
| 5 | 107-1981 | 2 | Lift Cyclinder ASM |
| 6 | 93-2700 | 4 | Roller-Plastic |
| 7 | 33029-00 | 4 | Nut-Lock, NI |
| 8 | 302-2 | 4 | Fitting-Grease |
| 9 | 98-8821 | 2 | Link-Rear |
| 10 | 93-2704-03 | 4 | Link-Left |
| 11 | 3229-28 | 2 | Screw-CARR |
| 12 | 100-4872 | 2 | Plate-Switch, Neutral |
| 13 | 105-3858 | 2 | Bracket-Switch |
| 14 | 104-1450 | 2 | Bolt-CARR |
| 15 | 10-8110 | 4 | Washer-Thrust |
| 16 | 323-7 | 2 | Screw-HH |
| 17 | 32149-7 | 2 | Nut-Keps |
| 18 | 106-9288 | 2 | Sensor-Proximity, Ferrous |
| 19 | 3296-49 | 2 | Nut-Lock, NI |
| 20 | 76-2980 | 2 | Washer-Thrust |
| 21 | 108-4035 | 1 | No. 6 Liftarm ASM |
| 21 | 108-4036 | 1 | No. 7 Liftarm ASM |
| 21:2 | 302-5 | 1 | Fitting-Grease |
| 21:3 | 108-4000 | 2 | Bushing |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 21:4 | 104-0015 | 2 | Bushing-Flange |
| 22 | 108-4022 | 2 | Shaft-Carrier, Pivot |
| 23 | 105-3999 | 2 | Spring-Compression |
| 24 | 3-6781 | 2 | Washer-Thrust |
| 25 | 3256-28 | 2 | Washer-Flat |
| 26 | 3296-50 | 2 | Nut-Lock, NI |
| 27 | 93-2699 | 4 | Pin |
| 28 | 98-8826 | 2 | Pin-Pivot |
| 29 | 32121-110 | 2 | Pin-Roll, Slotted |
| 30 | 104-5658-03 | 1 | No. 7 Support Arm ASM |
| 30 | 104-5657-03 | 1 | No. 6 Support Arm ASM |
| 31 | 32128-33 | 2 | Nut-HF |
| 32 | 67-1750 | 4 | Bushing |
| 33 | 104-5669 | 2 | Link ASM |
| 35 | 32104-32 | 8 | Screw-HWH |
| 36 | 2412-93 | 4 | Clamp-R |
| 38 | 105-9828 | 2 | Actuator-Switch |
| 39 | 108-4046-03 | 1 | Latch-Arm, RH |
| 39 | 108-4045-03 | 1 | Latch-Arm, LH |
| 40 | 104-3556-03 | 1 | Latch-RH |
| 40 | 104-3557-03 | 1 | Latch-LH |
| 41 | 327-6 | 4 | Screw-HH |
| 42 | 3234-46 | 2 | Screw-HHF |
| 43 | 104-3577 | 4 | Washer |
| 44 | 3256-26 | 2 | Washer-Flat |
| 45 | 3296-45 | 2 | Nut-Lock, NI |

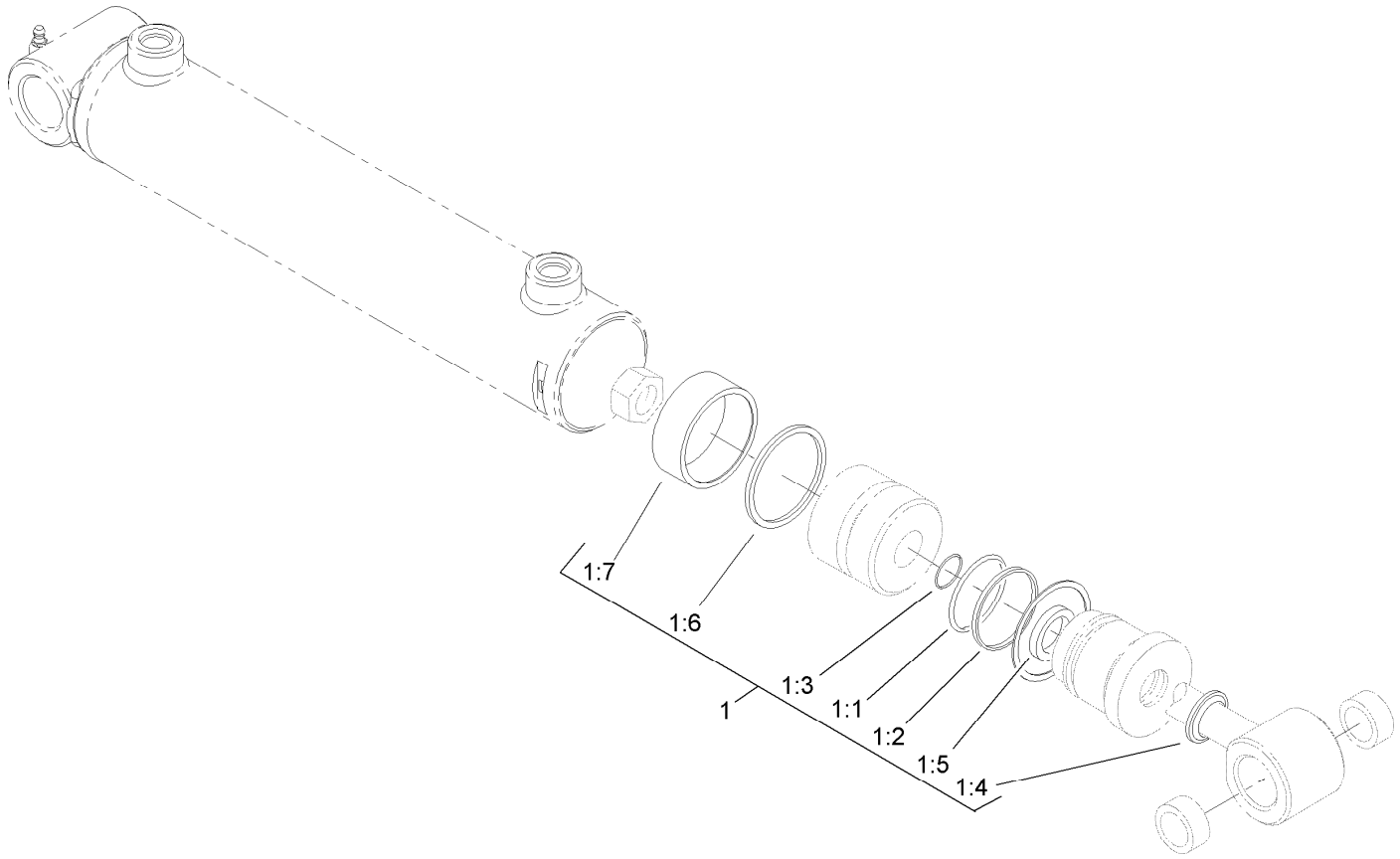
● Not illustrated




# No. 6 and 7 Lift Arm Assembly (continued)

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 46 | 48-7081 | 2 | Grip-Plastic |
| 99 | 3290-378 | 2 | Tie-Cable ● |

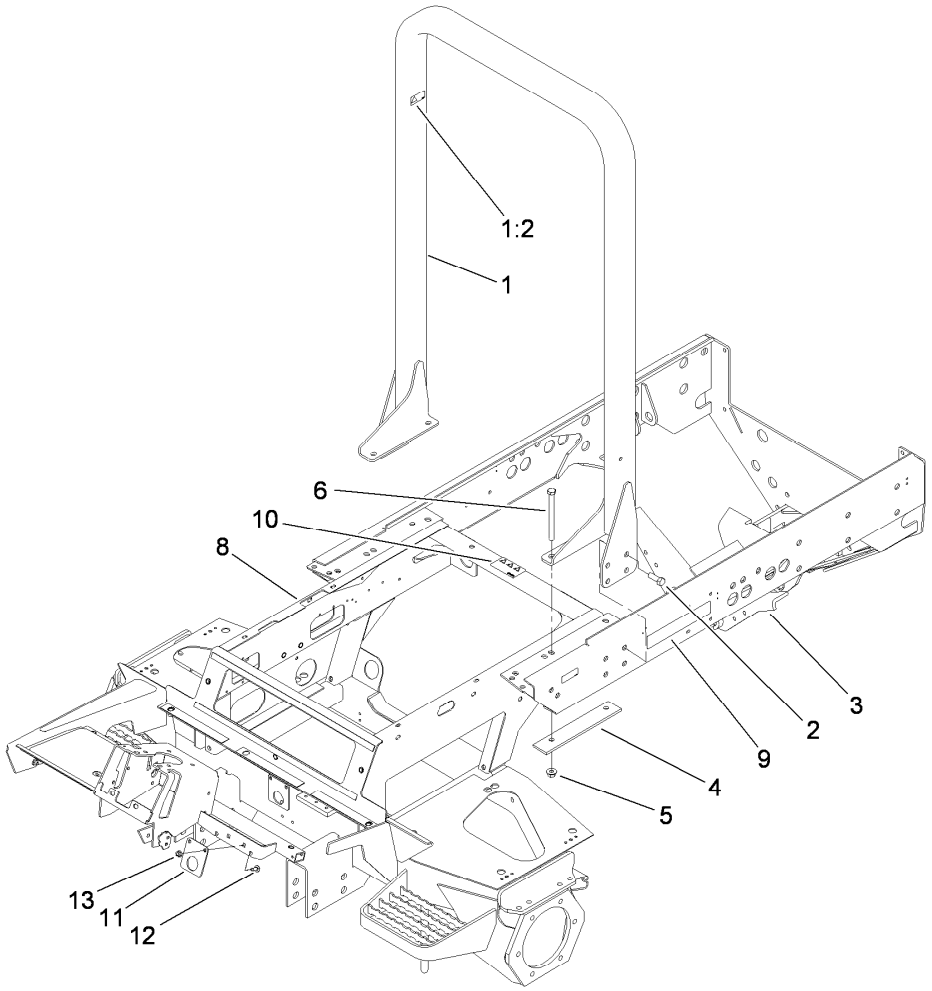
● Not illustrated




# Hydraulic Cylinder Assembly No. 107-1981

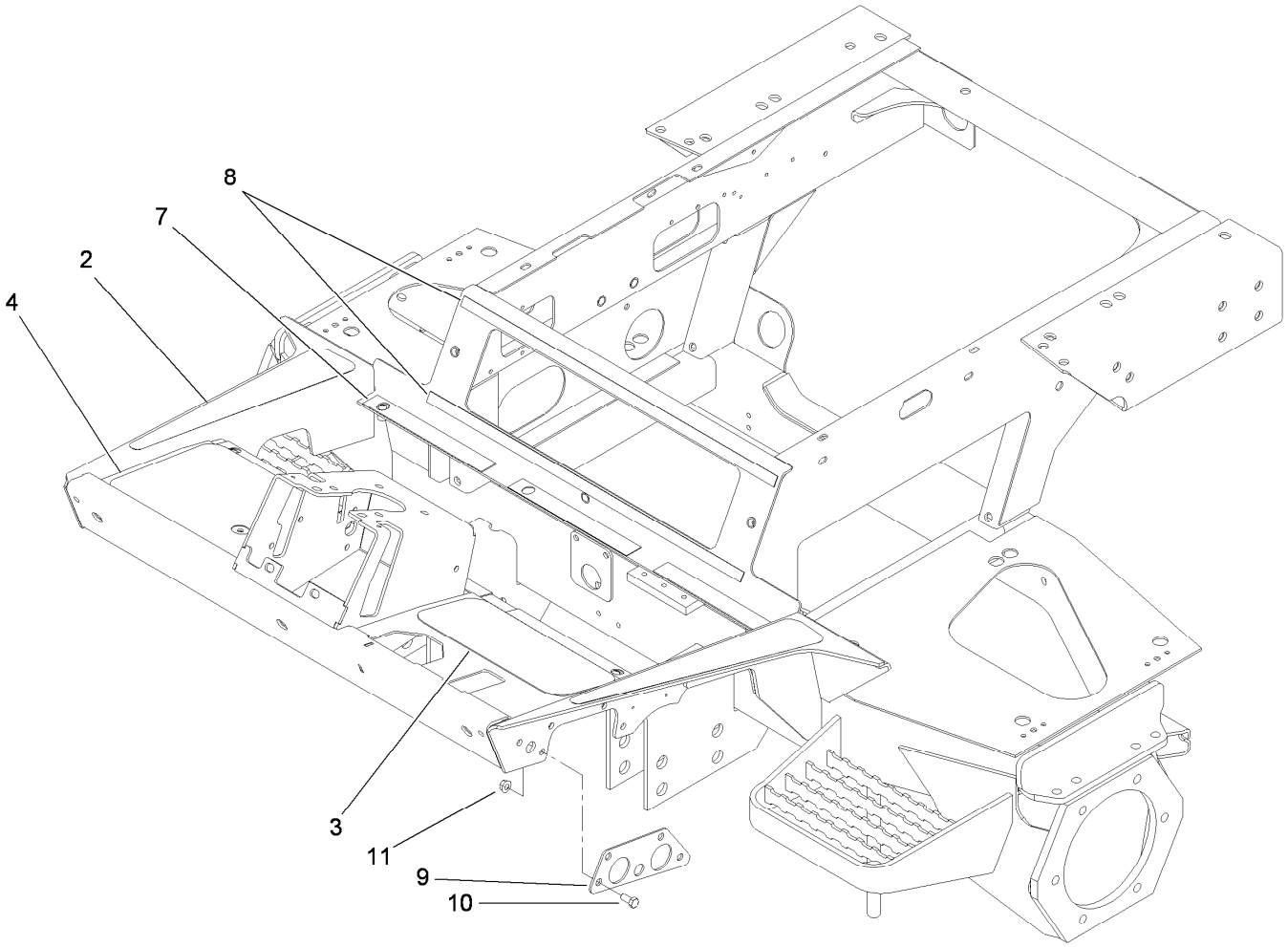
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 107-2564 | 1 | Seal Kit |
| 1:1 | | 1 | O-Ring ● |
| 1:2 | | 1 | O-Ring ● |
| 1:3 | | 1 | Seal ● |
| 1:4 | | 1 | Back-Up ● |
| 1:5 | | 1 | Wiper ● |
| 1:6 | | 1 | Seal-W/Out Ring ● |
| 1:7 | | 1 | Ring-Wear ● |

● Not serviced separately



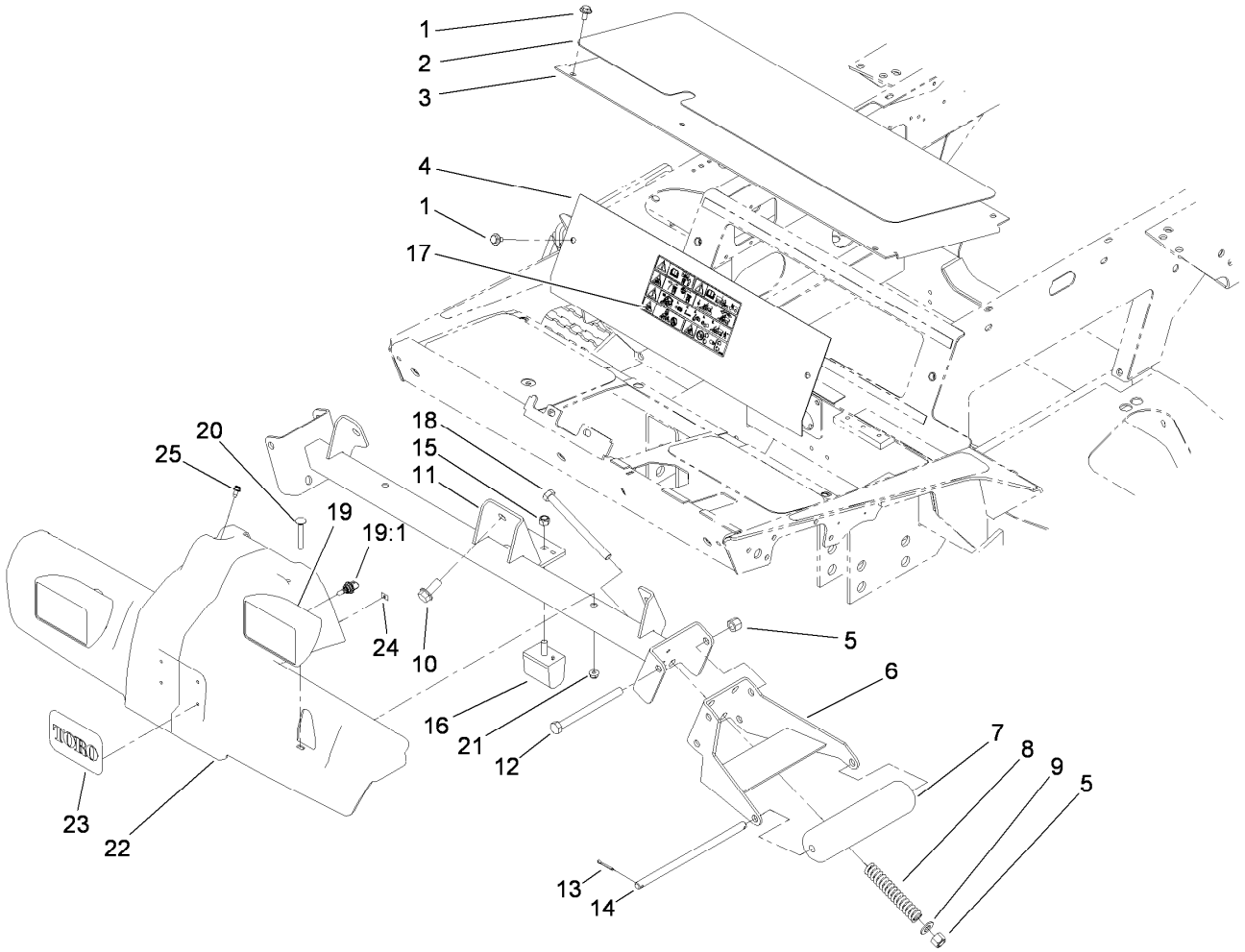

# Roll-Over Protection System and Front Frame Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 108-4018 | 1 | ROPS ASM |
| 1:2 | 117-4776 | 1 | Decal-ROPS |
| 2 | 3234-38 | 12 | Screw-HHF |
| 3 | 115-4394-03 | 1 | Frame-Rear |
| 4 | 104-5584-03 | 2 | Plate-Reinforcement, ROPS |
| 5 | 32128-49 | 4 | Nut-HHF |
| 6 | 325-20 | 4 | Screw-HH |
| 8 | 115-4392 | 1 | Front Frame ASM |
| 9 | 72-3560 | 2 | Decal |
| 10 | 106-6754 | 1 | Decal-Danger |
| 11 | 104-5516-01 | 1 | Support-Tube |
| 12 | 3230-23 | 2 | Screw-CARR |
| 13 | 32128-20 | 2 | Nut-HF |




# Front Frame Assembly No. 115-4392

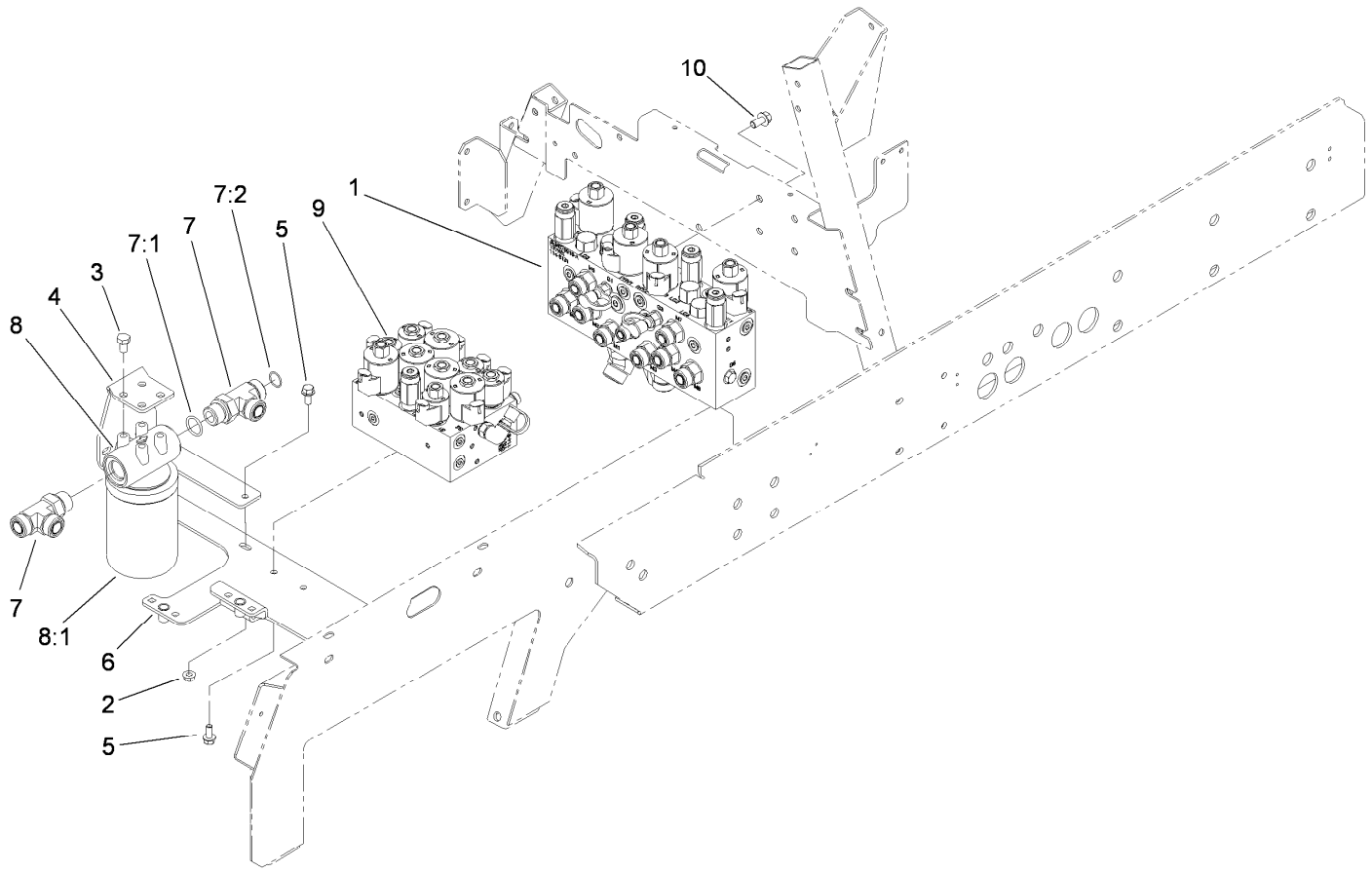
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 2 | 93-7592 | 2 | Tread-Rest, Foot |
| 3 | 75-0620 | 1 | Tread-Foot, LH |
| 4 | 104-5223 | 1 | Tread-Foot, RH |
| 7 | 105-9859 | 6 | Seal-Foam |
| 8 | 105-9860 | 2 | Seal-Foam |
| 9 | 106-7794-01 | 2 | Plate-Mount, HYD Fitting |
| 10 | 322-3 | 8 | Screw-HH |
| 11 | 32128-20 | 8 | Nut-HF |




# Front Shroud and Work Light Assembly

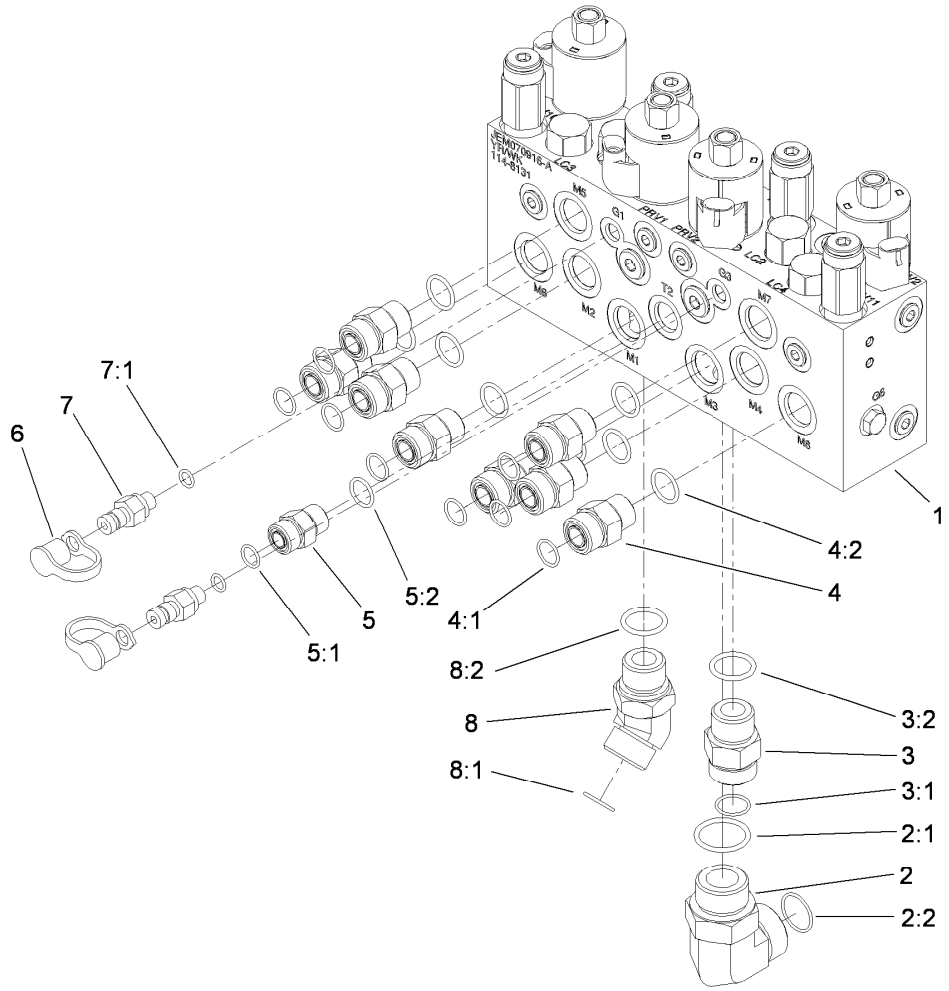
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 3234-7 | 7 | Screw-HHF |
| 2 | 75-0630 | 1 | Tread-Foot, Center |
| 3 | 75-1410-01 | 1 | Plate-Access, Floor |
| 4 | 105-9243-01 | 1 | Plate-Access |
| 5 | 3296-23 | 4 | Nut-Lock, NI |
| 6 | 105-3996-01 | 2 | Support-Roller |
| 7 | 105-9816 | 2 | Roller-Plastic |
| 8 | 105-3970 | 2 | Spring-Compression |
| 9 | 3256-26 | 2 | Washer-Flat |
| 10 | 3234-38 | 3 | Screw-HHF |
| 11 | 117-4760-01 | 1 | Support-Roller |
| 12 | 325-22 | 2 | Screw-HH |
| 13 | 3272-11 | 4 | Pin-Cotter |
| 14 | 104-5545 | 2 | Shaft-Roller |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 15 | 33025-00 | 1 | Nut-Lock, NI |
| 16 | 87-3470 | 1 | Bumper-Axle, Rear |
| 17 | 112-5297 | 1 | Decal-Danger |
| 17 | 112-5298 | 1 | Decal-Danger, Ce |
| 18 | 325-20 | 2 | Screw-HH |
| 19 | 94-9024 | 2 | Lamp ASM |
| 19:1 | 95-0909 | 1 | Lamp-12 Volt |
| 20 | 3230-7 | 2 | Screw-CARR |
| 21 | 104-8300 | 2 | Nut-Flange, NI |
| 22 | 115-9137 | 1 | Shroud-Platform |
| 23 | 93-6028 | 1 | Plate-Logo |
| 24 | 3254-9 | 4 | Washer-Lock, Internal |
| 25 | 32104-17 | 2 | Screw-HWH |




# Manifold and Filter Assembly

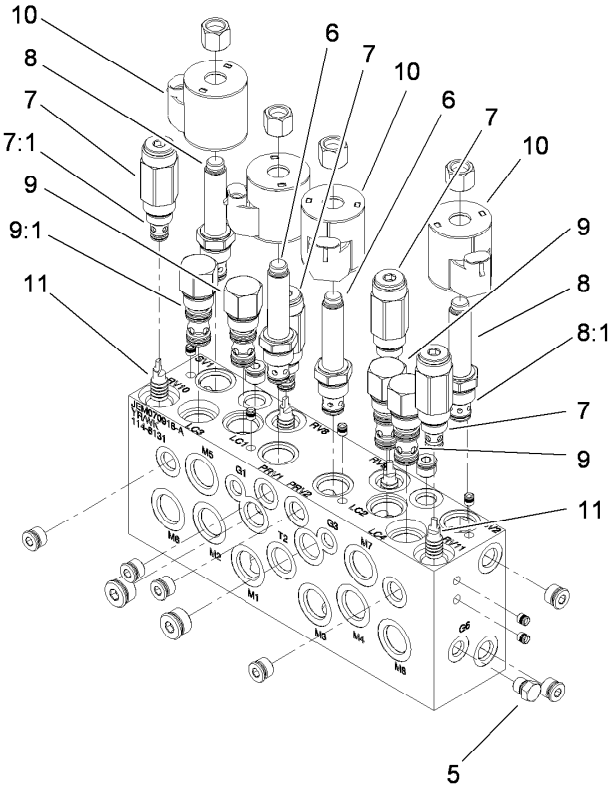
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 117-2393 | 1 | Mow Manifold ASM |
| 2 | 32128-20 | 2 | Nut-HF |
| 3 | 33115-016 | 4 | Screw-HH |
| 4 | 104-5492-03 | 1 | Bracket-Mount, Filter |
| 5 | 3234-5 | 8 | Screw-HHF |
| 6 | 117-2362 | 1 | Bracket-Mount, Valve |
| 7 | 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 | 117-2389 | 1 | Lift Manifold ASM |
| 10 | 110-1718 | 3 | Screw-HHF |

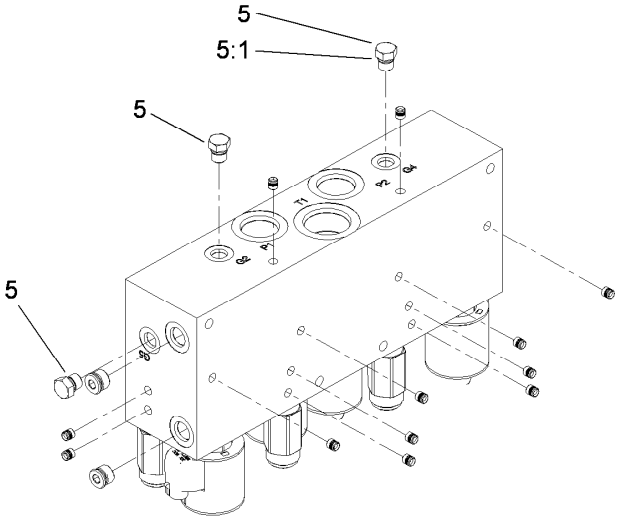



# Mow Manifold Assembly No. 117-2393

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | | 1 | Manifold-Mow ● |
| 2 | 340-129 | 1 | Fitting-HYD, 90 DEG |
| 2:1 | 237-146 | 1 | O-Ring |
| 2:2 | 340-65 | 1 | O-Ring |
| 3 | 340-9 | 1 | Fitting-Straight |
| 3:1 | 237-58 | 1 | O-Ring |
| 3:2 | 237-81 | 1 | O-Ring |
| 4 | 340-7 | 8 | Adapter |
| 4:1 | 237-65 | 1 | O-Ring |
| 4:2 | 237-80 | 1 | O-Ring |
| 5 | 340-4 | 1 | Fitting-HYD, Straight |
| 5:1 | 237-30 | 1 | O-Ring |
| 5:2 | 237-79 | 1 | O-Ring |
| 6 | 354-79 | 2 | Cap-Dust |
| 7 | 354-77 | 2 | Fitting-Quick |
| 7:1 | 237-78 | 1 | O-Ring |
| 8 | 100-5530 | 1 | Fitting-HYD, 45 DEG |
| 8:1 | 237-58 | 1 | O-Ring |
| 8:2 | 237-81 | 1 | O-Ring |

● Not serviced separately

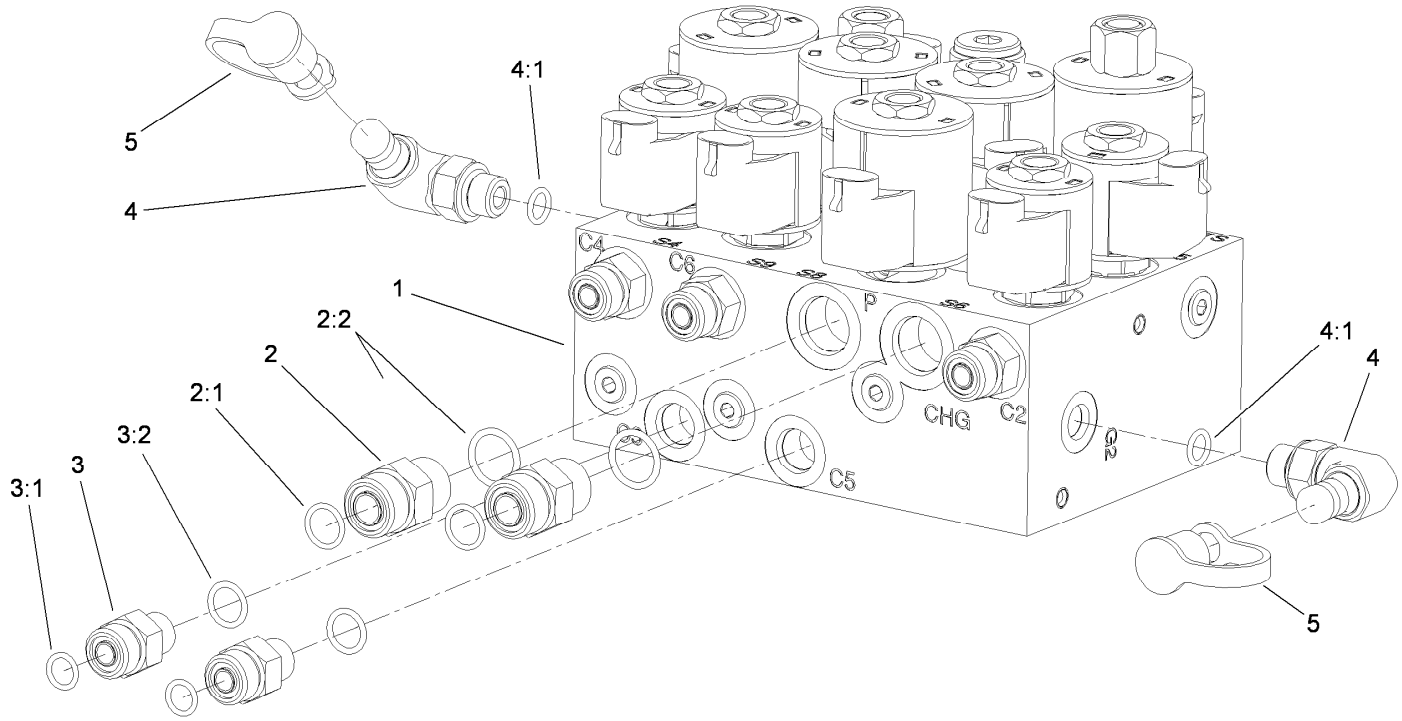



# Mow Manifold Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 5 | 117-0115 | 4 | Plug-HYD |
| 5:1 | 237-78 | 1 | O-Ring |
| 6 | 110-8799 | 2 | Relief-Proportional |
| 7 | 112-5259 | 4 | Valve-Relief |
| 7:1 | 105-9156 | 1 | Seal Kit |
| 8 | 105-9158 | 2 | Valve-Solenoid, N.O. |
| 8:1 | 105-9159 | 1 | Seal Kit ● |
| 9 | 105-9153 | 4 | Element-Logic, Vented |
| 9:1 | 105-9154 | 1 | Seal Kit |
| 10 | 110-6344 | 4 | Coil-12V, Dc |
| 11 | 105-9157 | 4 | Piston-Pilot |

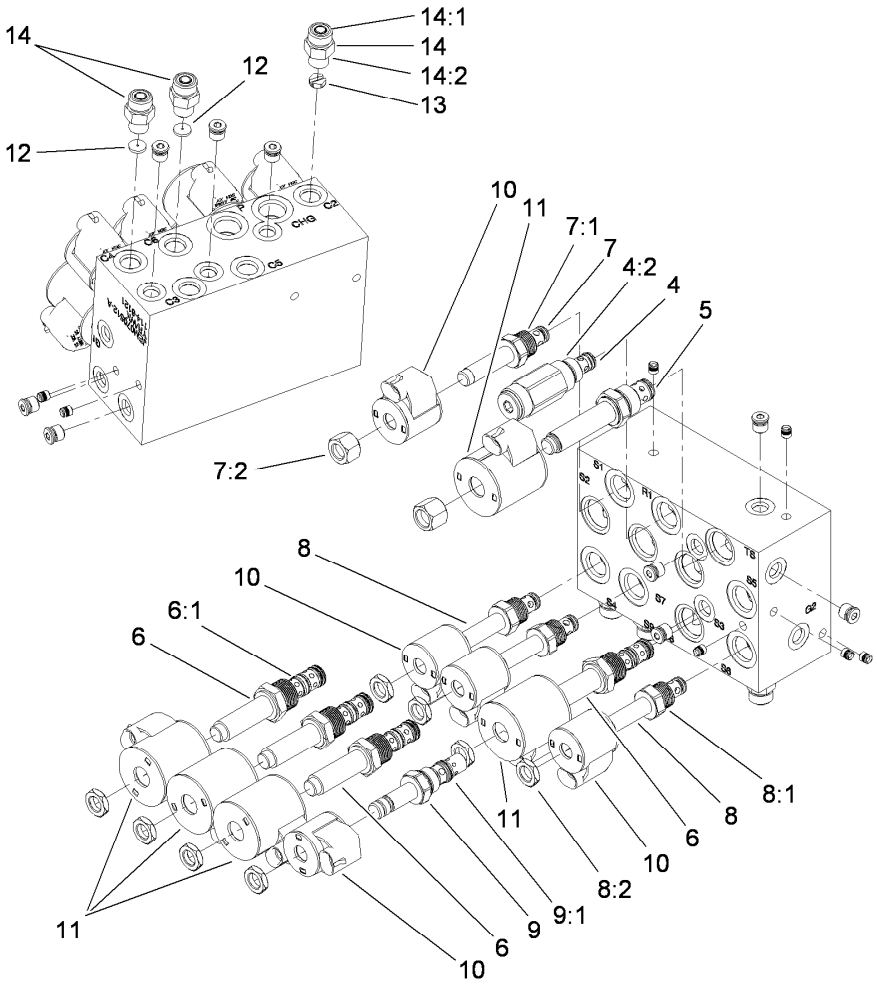
● Not illustrated




# Lift Manifold Assembly No. 117-2389

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | | 1 | Manifold-Lift ● |
| 2 | 340-4 | 2 | Fitting-HYD, Straight |
| 2:1 | 237-30 | 1 | O-Ring |
| 2:2 | 237-79 | 1 | O-Ring |
| 3 | 340-2 | 2 | Fitting-HYD, Straight |
| 3:1 | 237-22 | 1 | O-Ring |
| 3:2 | 237-42 | 1 | O-Ring |
| 4 | 115-9147 | 2 | Fitting-Elbow, 90 DEG |
| 4:1 | 237-78 | 1 | O-Ring |
| 5 | 354-79 | 2 | Cap-Dust |

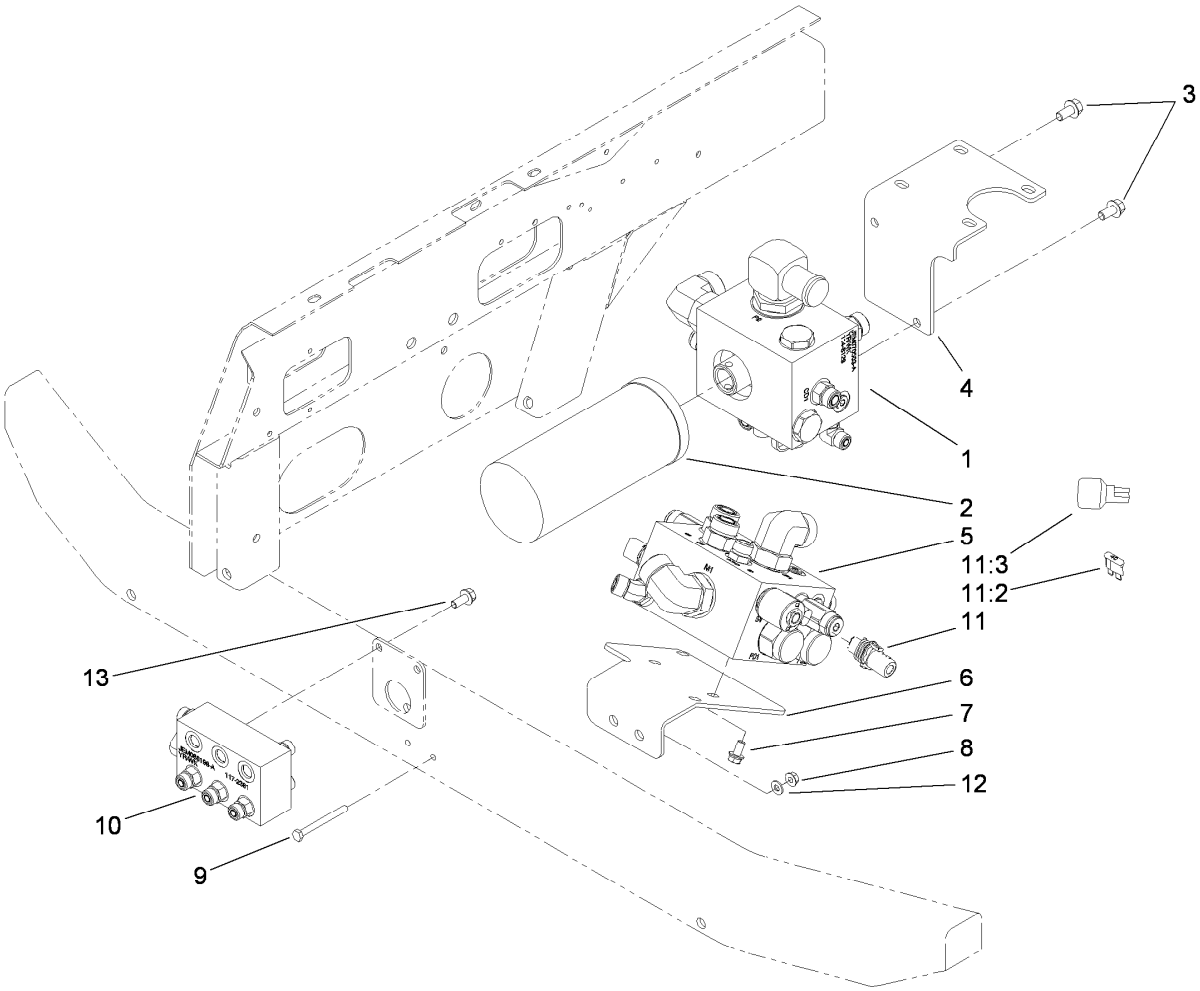
● Not serviced separately




# Lift Manifold Assembly

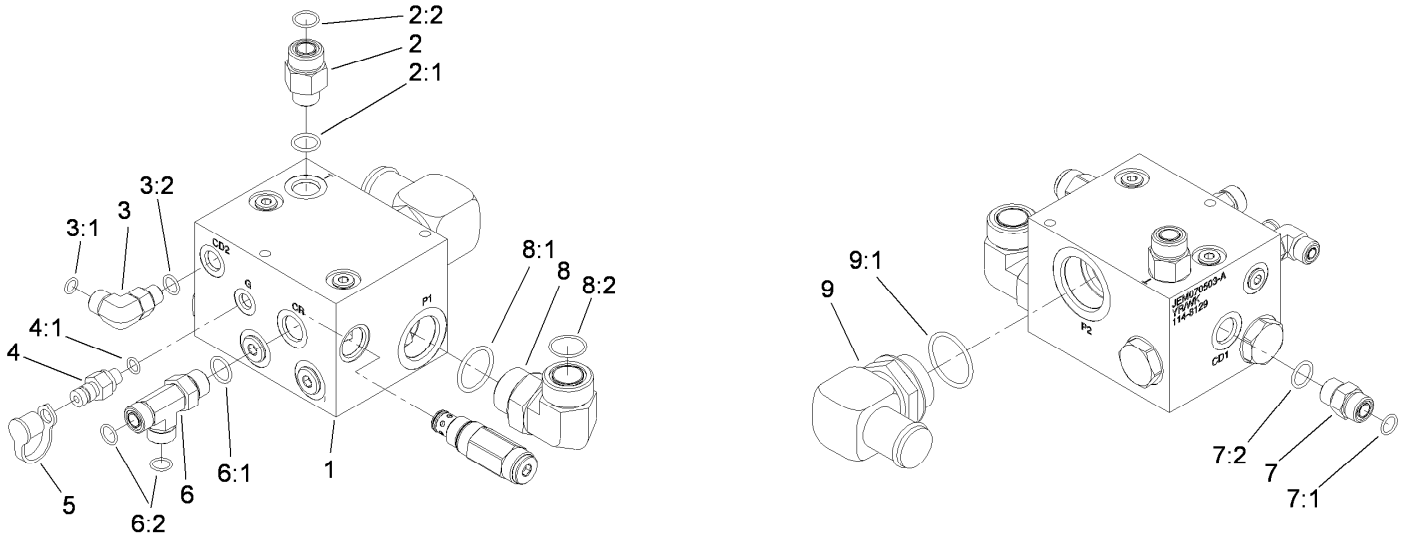
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 4 | 105-9844 | 1 | Valve-Relief |
| 4:2 | 105-9156 | 1 | Seal Kit ● |
| 5 | 117-2399 | 1 | Relief Valve-Proportional |
| 6 | 115-5400 | 4 | Valve-Solenoid |
| 6:1 | 107-7813 | 1 | Seal Kit |
| 7 | 107-7517 | 1 | Valve-Solenoid |
| 7:1 | 105-9156 | 1 | Seal Kit |
| 7:2 | 107-7812 | 1 | Nut-Solenoid ● |
| 8 | 112-9206 | 3 | Valve-Solenoid |
| 8:1 | 105-9156 | 1 | Seal Kit |
| 8:2 | 110-2634 | 1 | Nut-Coil |
| 9 | 115-5405 | 1 | Valve-Solenoid |
| 9:1 | 115-5413 | 1 | Seal Kit |
| 10 | 110-0497 | 5 | Coil-Solenoid |
| 11 | 110-6344 | 5 | Coil-12V, Dc |
| 12 | 117-4757 | 2 | Orifice-Disk, .063 |
| 13 | 117-4756 | 1 | Orifice-Flow Control, .080 |
| 14 | 340-2 | 3 | Fitting-HYD, Straight |
| 14:1 | 237-22 | 1 | O-Ring |
| 14:2 | 237-42 | 1 | O-Ring |

● Not illustrated




# 4-Wheel Drive Manifold and Filter Assembly

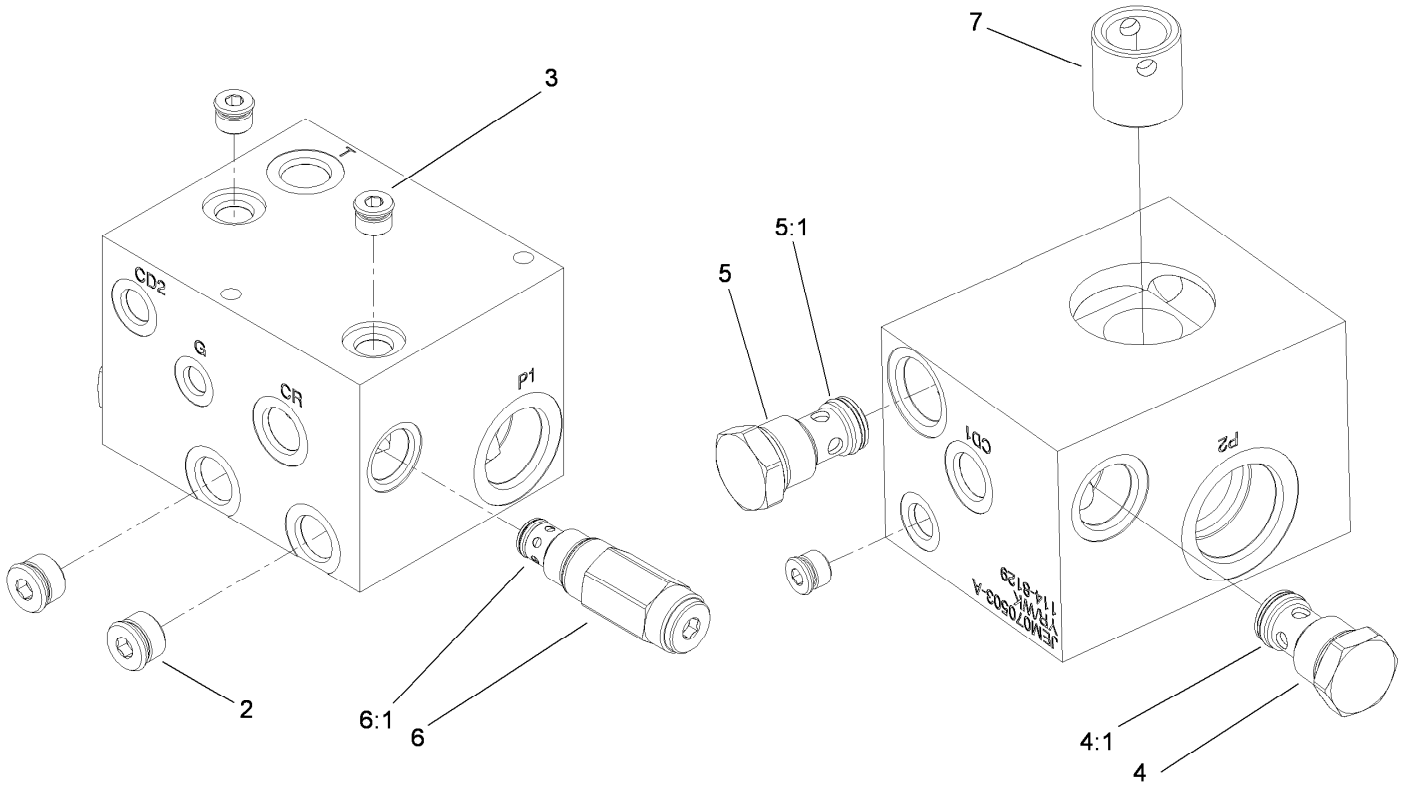
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 117-2391 | 1 | Filter Manifold ASM |
| 2 | 94-2621 | 1 | Element-Filter |
| 3 | 110-1718 | 2 | Screw-HHF |
| 4 | 114-8135-03 | 1 | Bracket-Manifold, Filter |
| 5 | 117-2390 | 1 | 4Wd Manifold ASM |
| 6 | 104-5467-03 | 1 | Bracket-Mount, Valve |
| 7 | 3234-14 | 3 | Screw-HHF |
| 8 | 32128-33 | 2 | Nut-HF |
| 9 | 321-14 | 2 | Screw-HH |
| 10 | 117-2394 | 1 | Junction Manifold ASM |
| 11 | 115-9102 | 1 | Harness-Wire, Main |
| 11:2 | 99-6124 | 1 | Fuse-Blade, 40 Amp |
| 11:3 | 100-4918 | 1 | Diode |
| 12 | 3256-22 | 2 | Washer-Flat |
| 13 | 3234-5 | 2 | Screw-HHF |




# Filter Manifold Assembly No. 117-2391

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | | 1 | Manifold-Filter ● |
| 2 | 340-155 | 1 | Fitting-HYD, Straight |
| 2:1 | 237-79 | 1 | O-Ring |
| 2:2 | 237-151 | 1 | O-Ring |
| 3 | 340-77 | 1 | Fitting-HYD, 90 DEG |
| 3:1 | 237-22 | 1 | O-Ring |
| 3:2 | 237-42 | 1 | O-Ring |
| 4 | 354-77 | 1 | Fitting-Quick |
| 4:1 | 237-78 | 1 | O-Ring |
| 5 | 354-79 | 1 | Cap-Dust |
| 6 | 340-109 | 1 | Fitting-HYD, Tee |
| 6:1 | 237-79 | 1 | O-Ring |
| 6:2 | 237-30 | 2 | O-Ring |
| 7 | 340-4 | 1 | Fitting-HYD, Straight |
| 7:1 | 237-30 | 1 | O-Ring |
| 7:2 | 237-79 | 1 | O-Ring |
| 8 | 340-129 | 1 | Fitting-HYD, 90 DEG |
| 8:1 | 237-146 | 1 | O-Ring |
| 8:2 | 340-65 | 1 | O-Ring |
| 9 | 92-7526 | 1 | Fitting-HYD, 90 DEG |
| 9:1 | 237-101 | 1 | O-Ring |

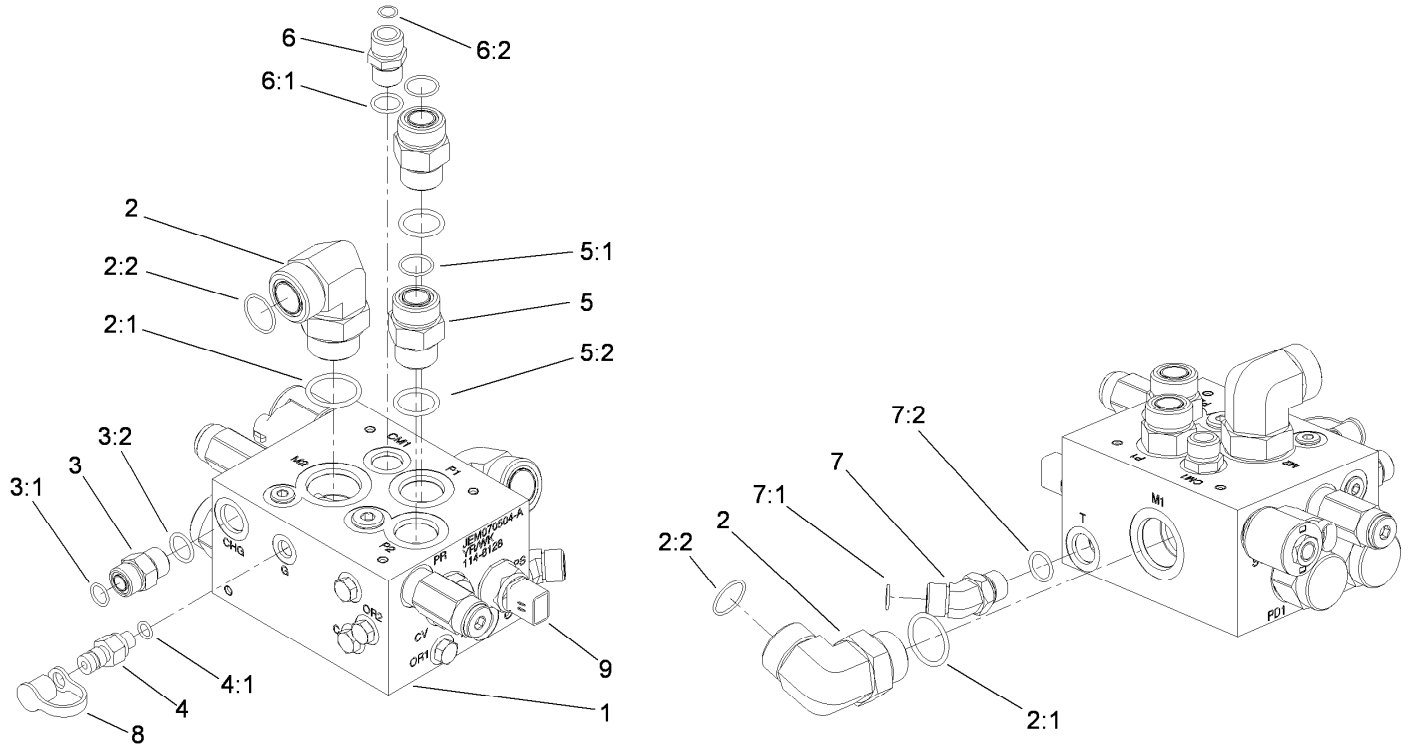
● Not serviced separately




# Filter Manifold Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 2 | | 2 | Plug ● |
| 3 | | 3 | Plug ● |
| 4 | 110-0468 | 1 | Valve-Check, 5 Psi |
| 4:1 | 110-0470 | 1 | Seal Kit |
| 5 | 110-0467 | 1 | Valve-Check, 40 Psi |
| 5:1 | 110-0470 | 1 | Seal Kit |
| 6 | 115-4140 | 1 | Valve-Check |
| 6:1 | 105-9159 | 1 | Seal Kit |
| 7 | | 1 | Filter Nipple ● |

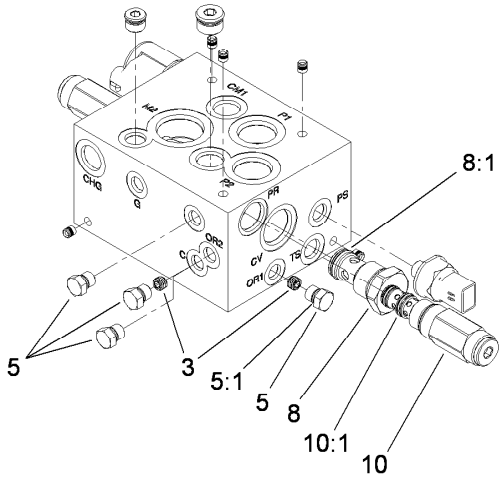
● Not serviced separately

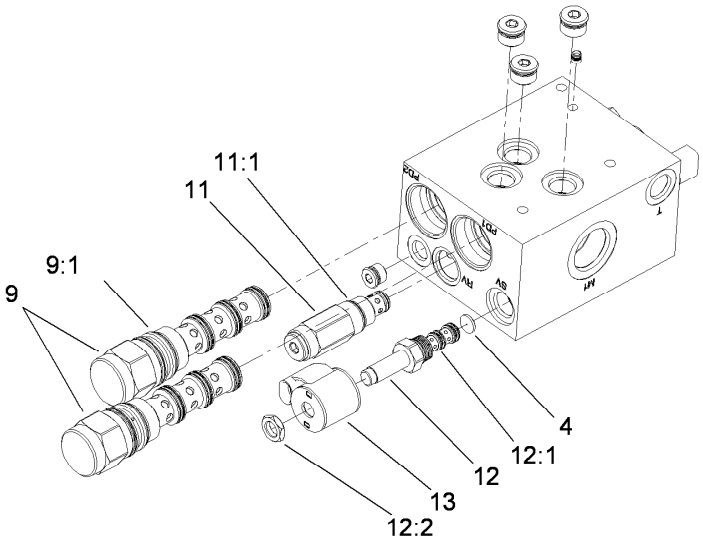



# 4-Wheel Drive Manifold Assembly No. 117-2390

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | | 1 | Manifold-4Wd ● |
| 2 | 340-129 | 2 | Fitting-HYD, 90 DEG |
| 2:1 | 237-146 | 1 | O-Ring |
| 2:2 | 340-65 | 1 | O-Ring |
| 3 | 340-4 | 1 | Fitting-HYD, Straight |
| 3:1 | 237-30 | 1 | O-Ring |
| 3:2 | 237-79 | 1 | O-Ring |
| 4 | 354-77 | 1 | Fitting-Quick |
| 4:1 | 237-78 | 1 | O-Ring |
| 5 | 340-9 | 2 | Fitting-Straight |
| 5:1 | 237-58 | 1 | O-Ring |
| 5:2 | 237-81 | 1 | O-Ring |
| 6 | 100-4890 | 1 | Fitting-Check |
| 6:1 | 237-79 | 1 | O-Ring |
| 6:2 | 237-30 | 1 | O-Ring |
| 7 | 340-101 | 1 | Fitting-HYD, 45 DEG |
| 7:1 | 237-30 | 1 | O-Ring |
| 7:2 | 237-79 | 1 | O-Ring |
| 8 | 354-79 | 1 | Cap-Dust |
| 9 | 115-9132 | 1 | Sensor-Pressure |

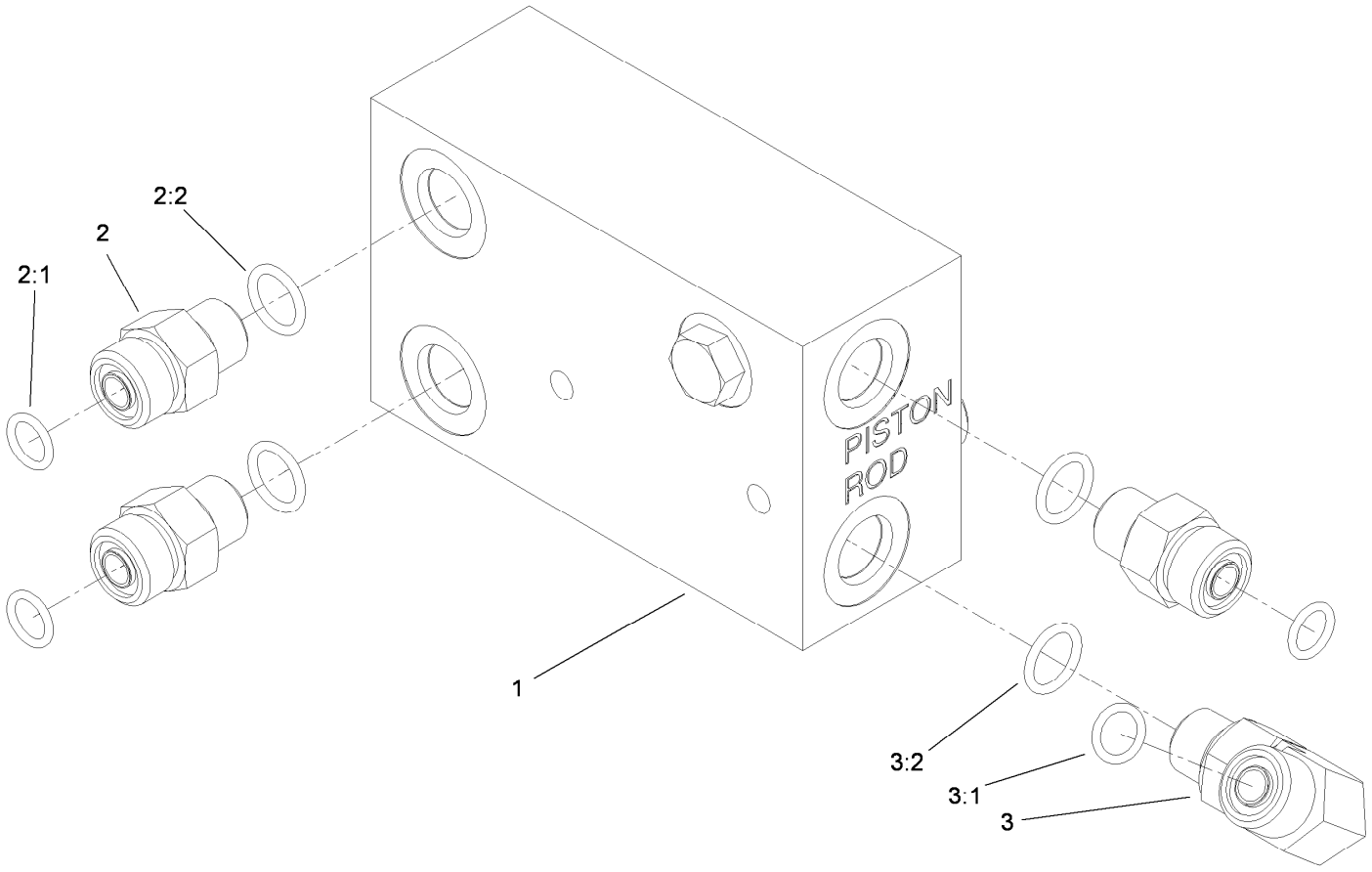
● Not serviced separately




# 4-Wheel Drive Manifold Assembly

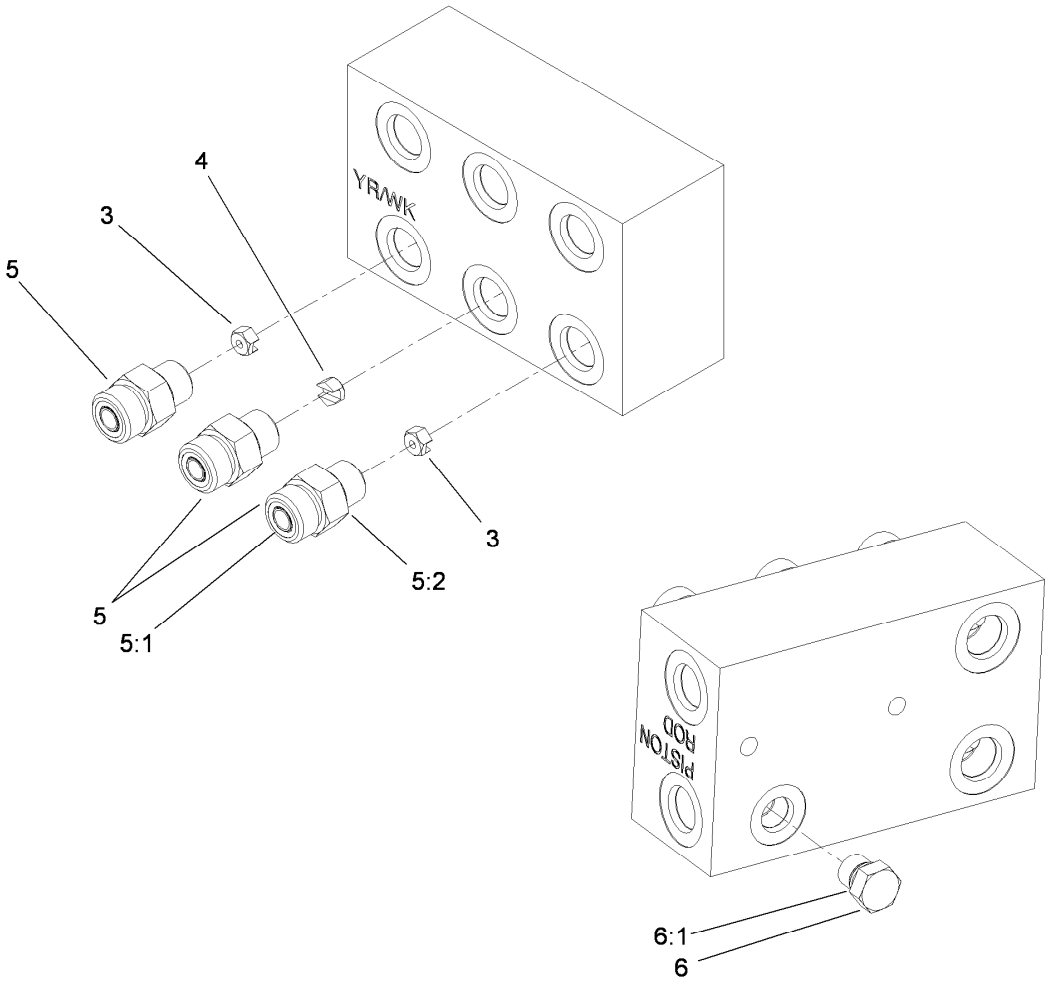
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 3 | 110-0495 | 2 | Orifice (.050) |
| 4 | 110-0498 | 1 | Orifice (.030) |
| 5 | 117-0115 | 4 | Plug-HYD |
| 5:1 | 237-78 | 1 | O-Ring |
| 8 | 110-0468 | 1 | Valve-Check, 5 Psi |
| 8:1 | 110-0470 | 1 | Seal Kit |
| 9 | 110-0491 | 2 | Valve-Directional |
| 9:1 | 106-6775 | 1 | Seal Kit |
| 10 | 110-0496 | 1 | Valve-Reducing, Pressure |
| 10:1 | 105-9154 | 1 | Seal Kit |
| 11 | 112-9205 | 1 | Valve-Relief |
| 11:1 | 105-9159 | 1 | Seal Kit |
| 12 | 110-0494 | 1 | Valve-Solenoid |
| 12:1 | 110-8773 | 1 | Seal Kit |
| 12:2 | 110-2634 | 1 | Nut-Coil |
| 13 | 110-0497 | 1 | Coil-Solenoid |




# Junction Manifold Assembly No. 117-2394

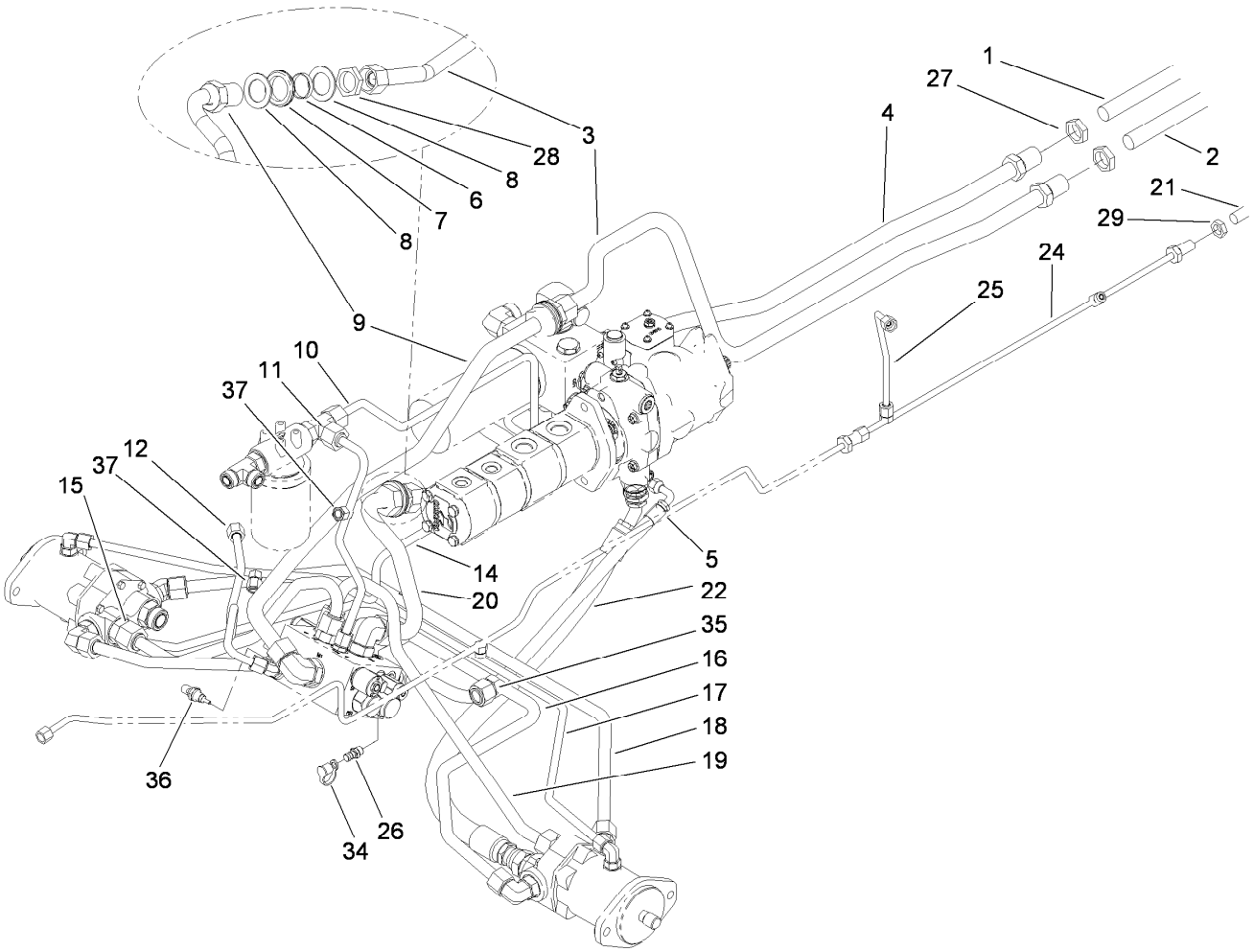
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | | 1 | Manifold-Junction ● |
| 2 | 340-2 | 3 | Fitting-HYD, Straight |
| 2:1 | 237-22 | 1 | O-Ring |
| 2:2 | 237-42 | 1 | O-Ring |
| 3 | 340-77 | 1 | Fitting-HYD, 90 DEG |
| 3:1 | 237-22 | 1 | O-Ring |
| 3:2 | 237-42 | 1 | O-Ring |

● Not serviced separately




# Junction Manifold Assembly

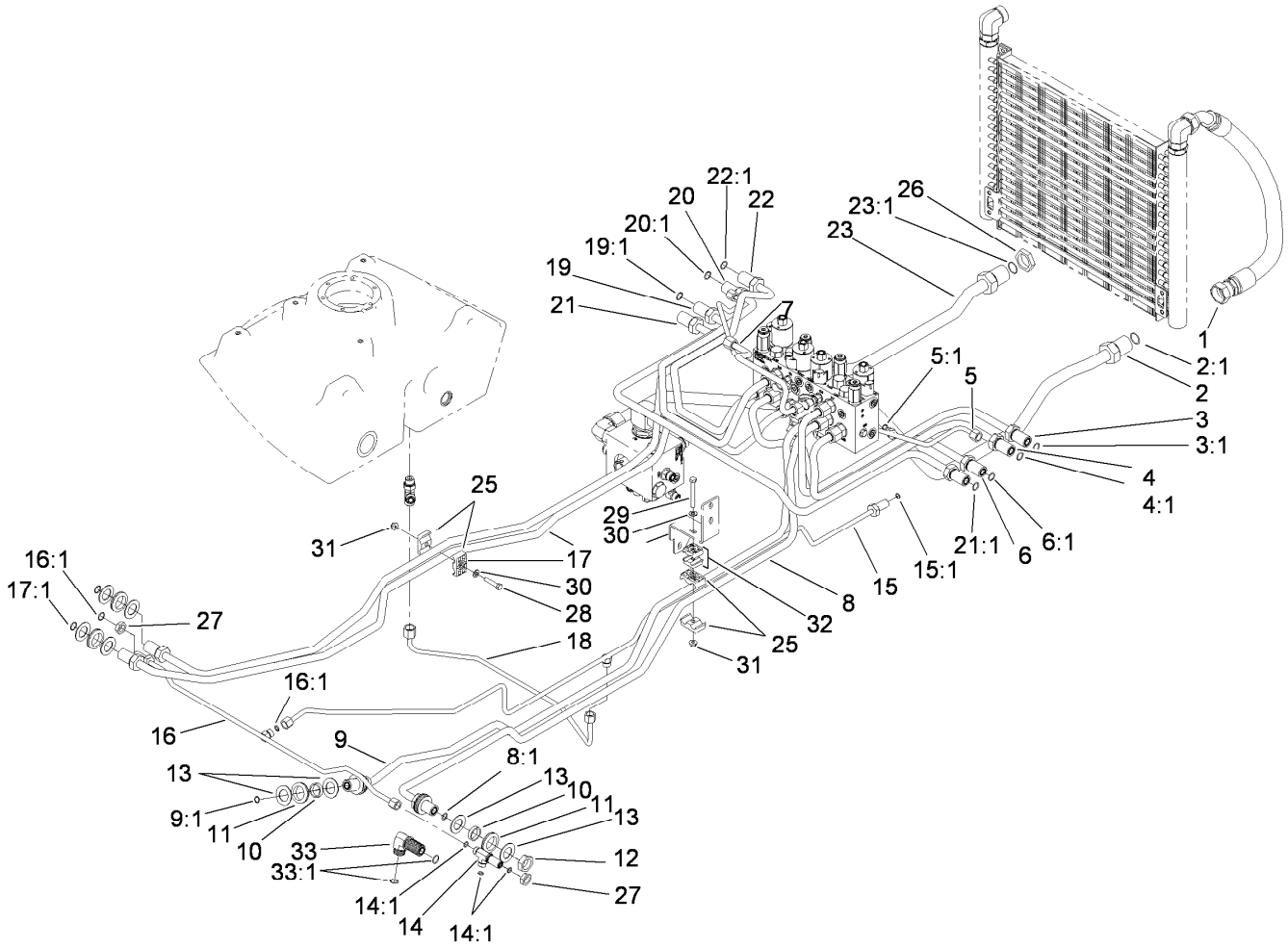
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 3 | 119-2009 | 2 | Orifice-Flow Control (0.030) |
| 4 | 119-2010 | 1 | Orifice-Flow Control (0.055) |
| 5 | 340-2 | 3 | Fitting-HYD, Straight |
| 5:1 | 237-22 | 1 | O-Ring |
| 5:2 | 237-42 | 1 | O-Ring |
| 6 | 117-0115 | 1 | Plug-HYD |
| 6:1 | 237-78 | 1 | O-Ring |




# Traction Hydraulic Lines Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 92-7536 | 1 | Hose ASM |
| 2 | 105-9818 | 1 | Hose ASM |
| 3 | 114-8118 | 1 | Tube-HYD |
| 3:1 | 237-58 | 1 | O-Ring ● |
| 4 | 115-4431 | 1 | Tube-HYD |
| 5 | 117-2350 | 1 | Hose ASM |
| 6 | 69-8950 | 2 | Spacer |
| 7 | 240-2 | 2 | Grommet-Rubber |
| 8 | 69-8920 | 4 | Washer |
| 9 | 114-8149 | 1 | Tube-HYD |
| 10 | 115-4426 | 1 | Tube-HYD |
| 11 | 114-8148 | 1 | Tube-HYD |
| 12 | 115-4351 | 1 | Tube-HYD |
| 14 | 115-4427 | 1 | Tube-HYD |
| 15 | 114-8145 | 1 | Tube-HYD |
| 16 | 115-9113 | 1 | Tube-HYD |
| 17 | 115-9126 | 1 | Tube-HYD |
| 18 | 104-5462 | 1 | Tube ASM |
| 19 | 114-8146 | 1 | Tube-HYD |
| 20 | 114-8147 | 1 | Tube-HYD |
| 21 | 92-7534 | 1 | Hose ASM |
| 22 | 104-5464 | 2 | Hose ASM |
| 24 | 114-4194 | 1 | Tube-HYD |
| 24:1 | 237-22 | 3 | O-Ring ● |
| 25 | 115-9124 | 1 | Tube-HYD |
| 26 | 59-7410 | 2 | 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 |
| 34 | 354-79 | 2 | Cap-Dust |
| 35 | 95-0979 | 1 | Cap-Ors |
| 36 | 110-8829 | 1 | Sender-Temperature |
| 36:1 | 237-42 | 1 | O-Ring ● |
| 37 | 340-117 | 2 | Cap |

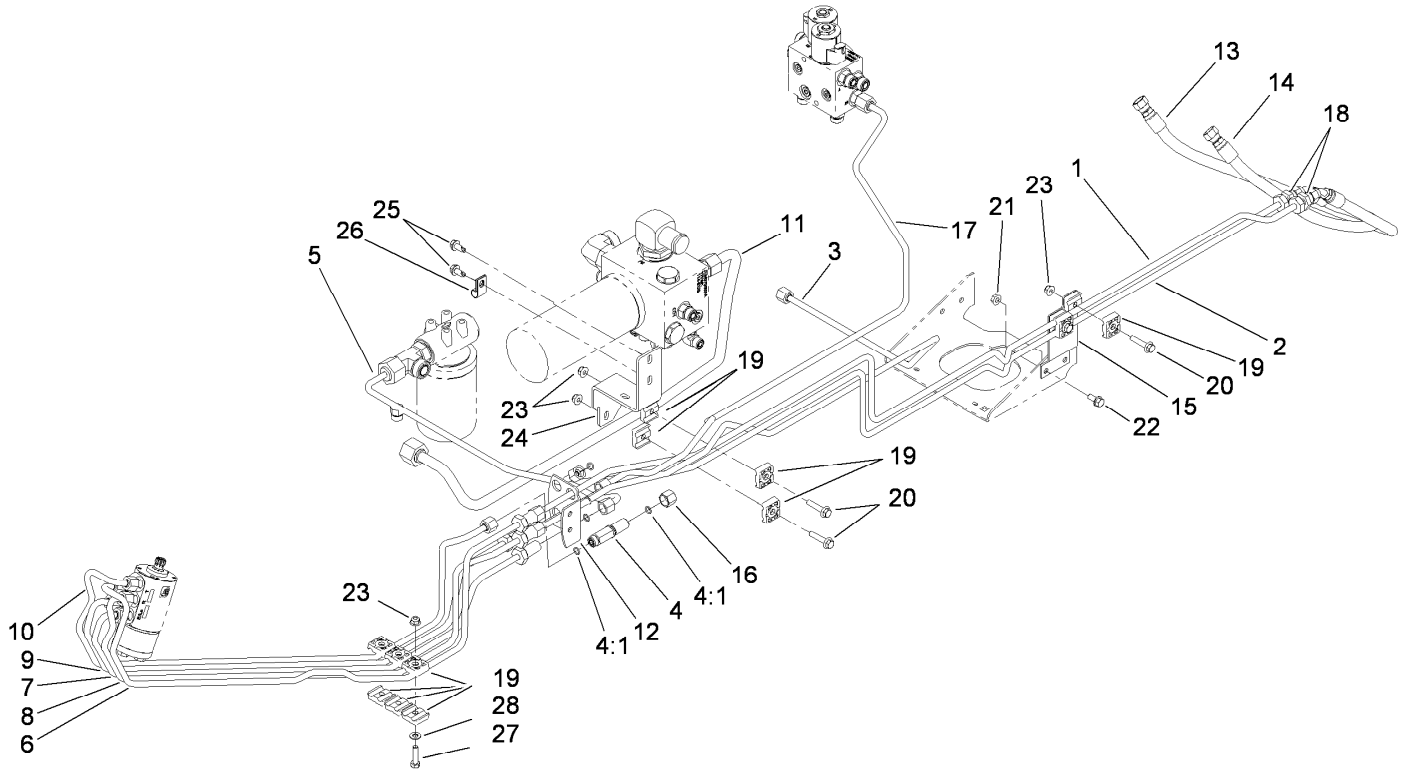
● Not illustrated




# Mow Hydraulic Line Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 104-5483 | 2 | Hose ASM |
| 2 | 115-4378 | 1 | Tube-HYD |
| 2:1 | 340-65 | 1 | O-Ring |
| 3 | 115-4372 | 1 | Tube-HYD |
| 3:1 | 237-65 | 1 | O-Ring |
| 4 | 115-4373 | 1 | Tube-HYD |
| 4:1 | 237-65 | 1 | O-Ring |
| 5 | 115-9125 | 1 | Tube-HYD |
| 5:1 | 237-22 | 1 | O-Ring |
| 6 | 115-4375 | 1 | Tube-HYD |
| 6:1 | 237-65 | 1 | O-Ring |
| 7 | 115-4398 | 1 | Tube-HYD |
| 8 | 115-4371 | 1 | Tube-HYD |
| 8:1 | 237-65 | 1 | O-Ring |
| 9 | 115-4370 | 1 | Tube-HYD |
| 9:1 | 237-65 | 1 | O-Ring |
| 10 | 69-9000 | 13 | Spacer |
| 11 | 240-3 | 13 | Grommet-Rubber |
| 12 | 340-74 | 13 | Nut-Lock, Bulkhead |
| 13 | 69-9010 | 26 | Washer |
| 14 | 340-68 | 3 | Fitting-Tee, Bulkhead |
| 14:1 | 237-22 | 3 | O-Ring |
| 15 | 115-4433 | 1 | Tube-HYD |
| 15:1 | 237-22 | 2 | O-Ring |
| 16 | 115-9139 | 1 | Tube-HYD |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 16:1 | 237-22 | 2 | O-Ring |
| 17 | 115-4374 | 1 | Tube-HYD |
| 17:1 | 237-65 | 1 | O-Ring |
| 18 | 115-9127 | 1 | Tube-HYD |
| 19 | 105-3901 | 1 | Tube ASM |
| 19:1 | 237-65 | 2 | O-Ring |
| 20 | 115-4376 | 1 | Tube-HYD |
| 20:1 | 237-65 | 1 | O-Ring |
| 21 | 105-3900 | 1 | Tube ASM |
| 21:1 | 237-65 | 2 | O-Ring |
| 22 | 115-4377 | 1 | Tube-HYD |
| 22:1 | 237-65 | 1 | O-Ring |
| 23 | 115-4424 | 1 | Tube-HYD |
| 23:1 | 340-65 | 1 | 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 | 322-13 | 1 | Screw-HH |
| 30 | 3256-23 | 2 | Washer-Flat |
| 31 | 104-8300 | 2 | Nut-Flange, NI |
| 32 | 56-7973 | 2 | Clamp-Tube |
| 33 | 340-72 | 1 | Fitting-Bulkhead, 90 DEG |
| 33:1 | 237-65 | 2 | O-Ring |

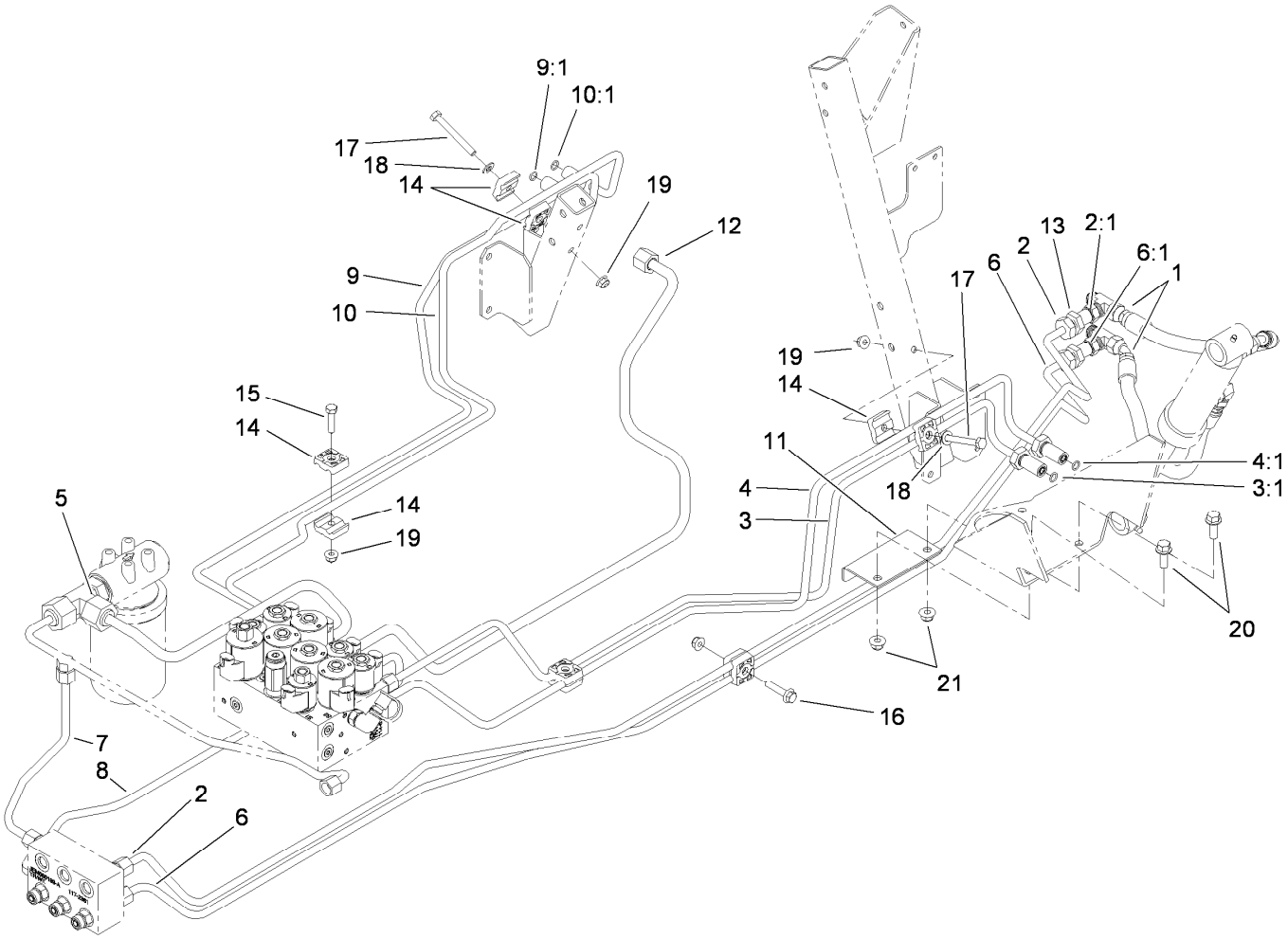



# Hydraulic Steering Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 105-3871 | 1 | Tube ASM |
| 1:1 | 237-22 | 1 | O-Ring ● |
| 2 | 115-9128 | 1 | Tube-HYD |
| 2:1 | 237-22 | 1 | O-Ring ● |
| 3 | 115-4428 | 1 | Tube-HYD |
| 4 | 340-68 | 1 | Fitting-Tee, Bulkhead |
| 4:1 | 237-22 | 3 | O-Ring |
| 5 | 115-4412 | 1 | Tube-HYD |
| 5:1 | 237-22 | 1 | O-Ring ● |
| 6 | 115-4408 | 1 | Tube-HYD |
| 6:1 | 237-22 | 1 | O-Ring ● |
| 7 | 115-4406 | 1 | Tube-HYD |
| 7:1 | 237-22 | 1 | O-Ring ● |
| 8 | 115-4409 | 1 | Tube-HYD |
| 8:1 | 237-22 | 1 | O-Ring ● |
| 9 | 115-4405 | 1 | Tube-HYD |
| 9:1 | 237-22 | 1 | O-Ring ● |
| 10 | 115-4407 | 1 | Tube-HYD |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 11 | 115-4425 | 1 | Tube-HYD |
| 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 |
| 17 | 115-4422 | 1 | Tube-HYD |
| 18 | 340-70 | 7 | Nut-Lock |
| 19 | 56-7973 | 14 | Clamp-Tube |
| 20 | 115-1794 | 4 | Screw-HHF |
| 21 | 32128-20 | 2 | Nut-HF |
| 22 | 3234-5 | 2 | Screw-HHF |
| 23 | 104-8300 | 7 | Nut-Flange, NI |
| 24 | 105-3993-03 | 1 | Bracket-Support, Tube |
| 25 | 32104-32 | 4 | Screw-HWH |
| 26 | 2412-138 | 1 | R-Clamp |
| 27 | 322-6 | 3 | Screw-HH |
| 28 | 3256-23 | 3 | Washer-Flat |

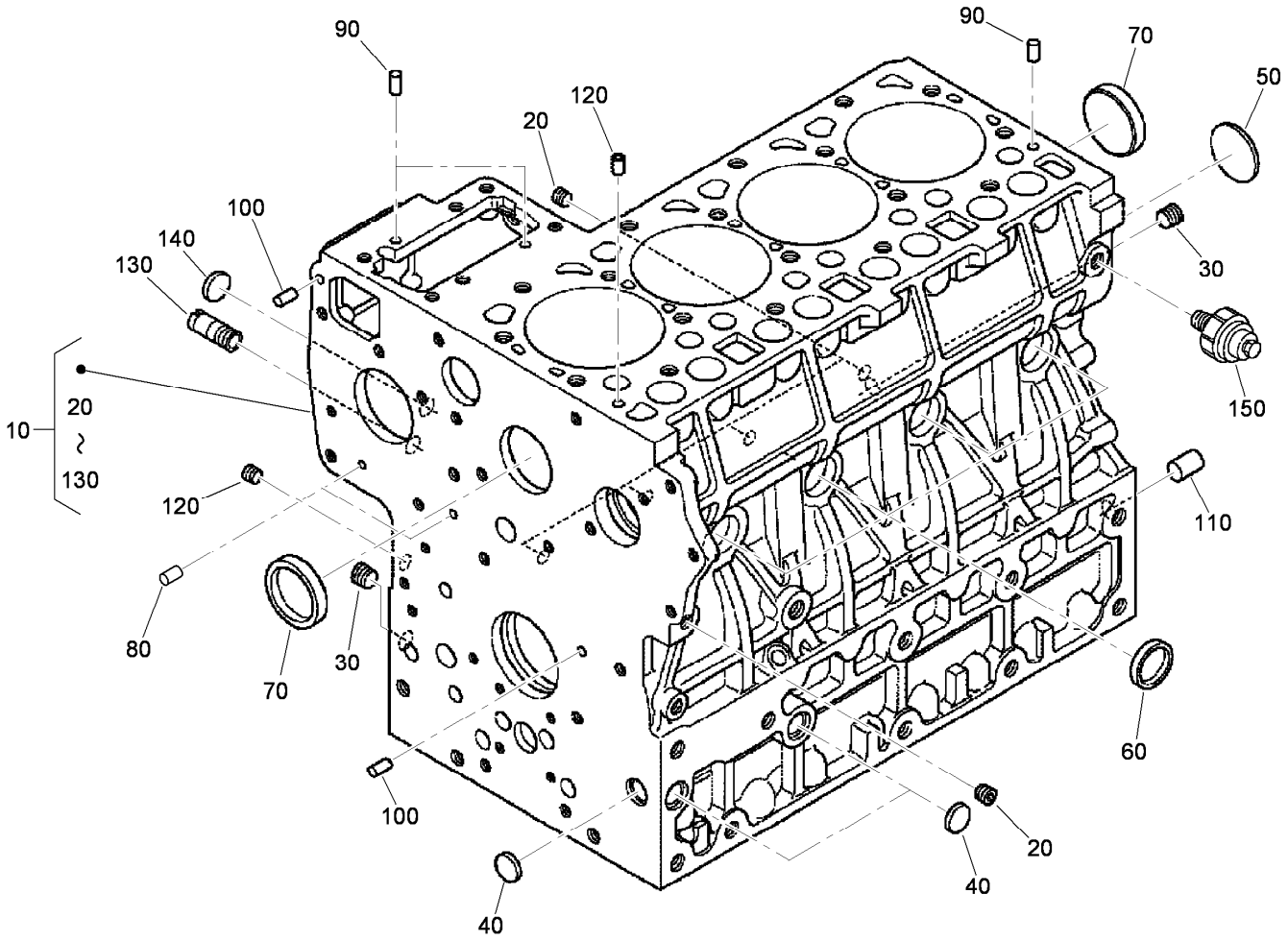
● Not illustrated




# Lift Cylinder Line Assembly

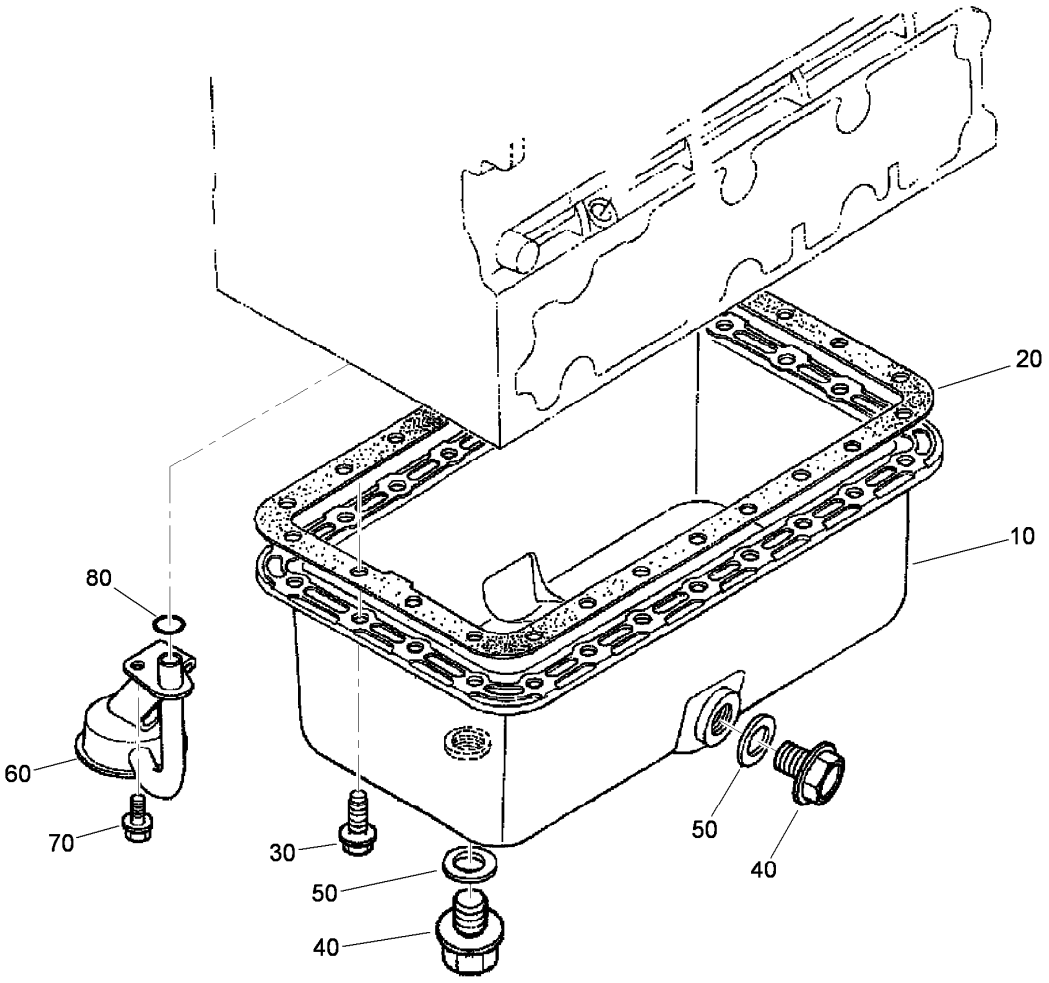
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 105-9238 | 4 | Hose ASM |
| 2 | 105-3988 | 1 | Tube ASM |
| 2:1 | 237-22 | 1 | O-Ring |
| 3 | 114-8140 | 1 | Tube-HYD |
| 3:1 | 237-22 | 1 | O-Ring |
| 4 | 114-8141 | 1 | Tube-HYD |
| 4:1 | 237-22 | 1 | O-Ring |
| 5 | 114-8143 | 1 | Tube-HYD |
| 6 | 105-3989 | 1 | Tube ASM |
| 6:1 | 237-22 | 1 | O-Ring |
| 7 | 115-9121 | 1 | Tube-HYD |
| 8 | 114-8142 | 1 | Tube-HYD |
| 9 | 114-8138 | 1 | Tube-HYD |
| 9:1 | 237-22 | 1 | O-Ring |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 10 | 114-8139 | 1 | Tube-HYD |
| 10:1 | 237-22 | 1 | O-Ring |
| 11 | 105-3990-03 | 1 | Bracket-Support, Tube |
| 12 | 114-8144 | 1 | Tube-HYD |
| 13 | 340-70 | 6 | Nut-Lock |
| 14 | 56-7973 | 12 | Clamp-Tube |
| 15 | 322-6 | 2 | Screw-HH |
| 16 | 115-1794 | 2 | Screw-HHF |
| 17 | 322-13 | 2 | Screw-HH |
| 18 | 3256-23 | 4 | Washer-Flat |
| 19 | 104-8300 | 6 | Nut-Flange, NI |
| 20 | 3234-11 | 2 | Screw-HHF |
| 21 | 104-8301 | 2 | Nut-Flange, NI |



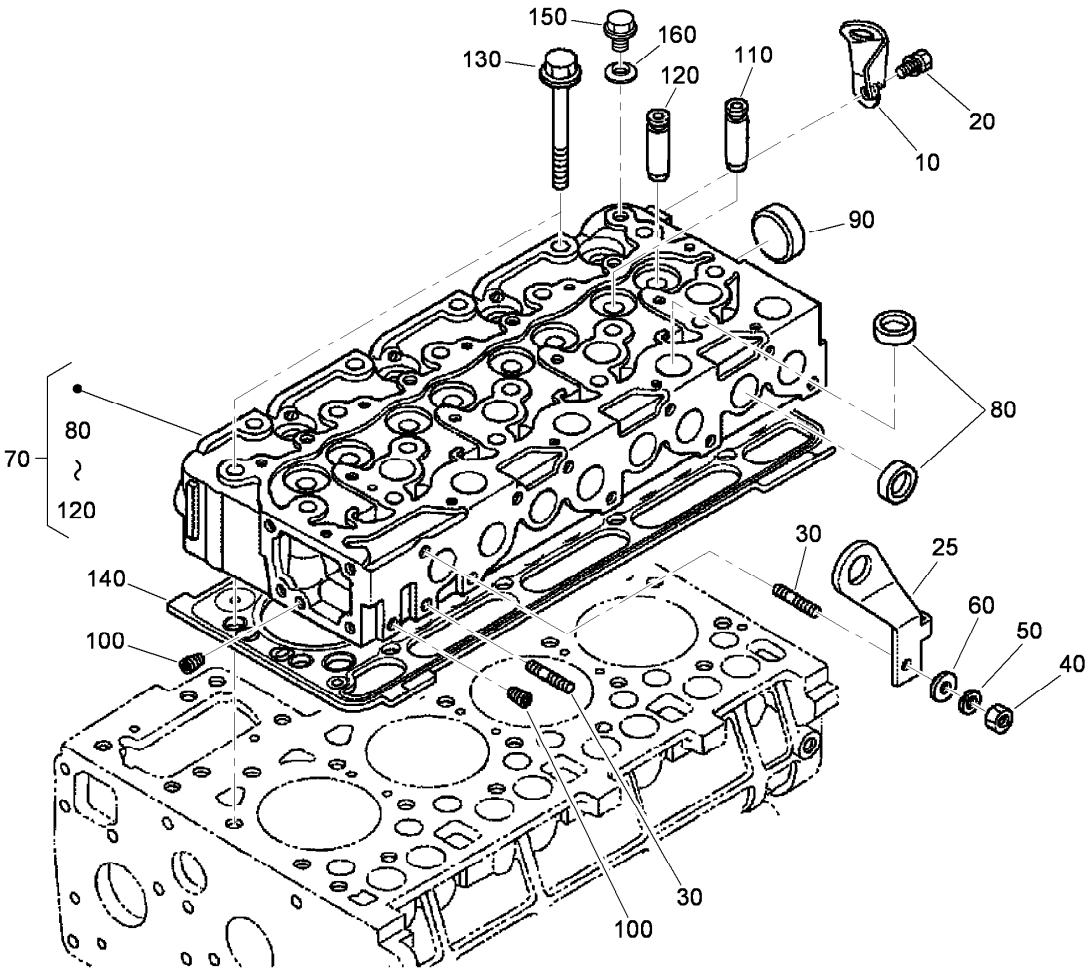

# Crankcase Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8500 | 1 | Crankcase ASM |
| 20 | 98-7487 | 2 | Plug |
| 30 | 107-0107 | 6 | Plug |
| 40 | 98-9379 | 2 | Plug-Expansion |
| 50 | 98-9668 | 3 | Plug-Expansion |
| 60 | 98-7500 | 6 | Cap-Sealing |
| 70 | 98-7501 | 2 | Cap-Sealing |
| 80 | 98-7502 | 2 | Pin-Straight |
| 90 | 98-7503 | 2 | Pin-Straight |
| 100 | 98-7504 | 2 | Pin-Straight |
| 110 | 98-7505 | 1 | Pin-Straight |
| 120 | 98-7506 | 1 | Pin-Pipe |
| 130 | 100-9153 | 1 | Pipe-Return, Water |
| 140 | 100-2020 | 1 | Cap-Sealing |
| 150 | 98-9416 | 1 | Switch-Oil |



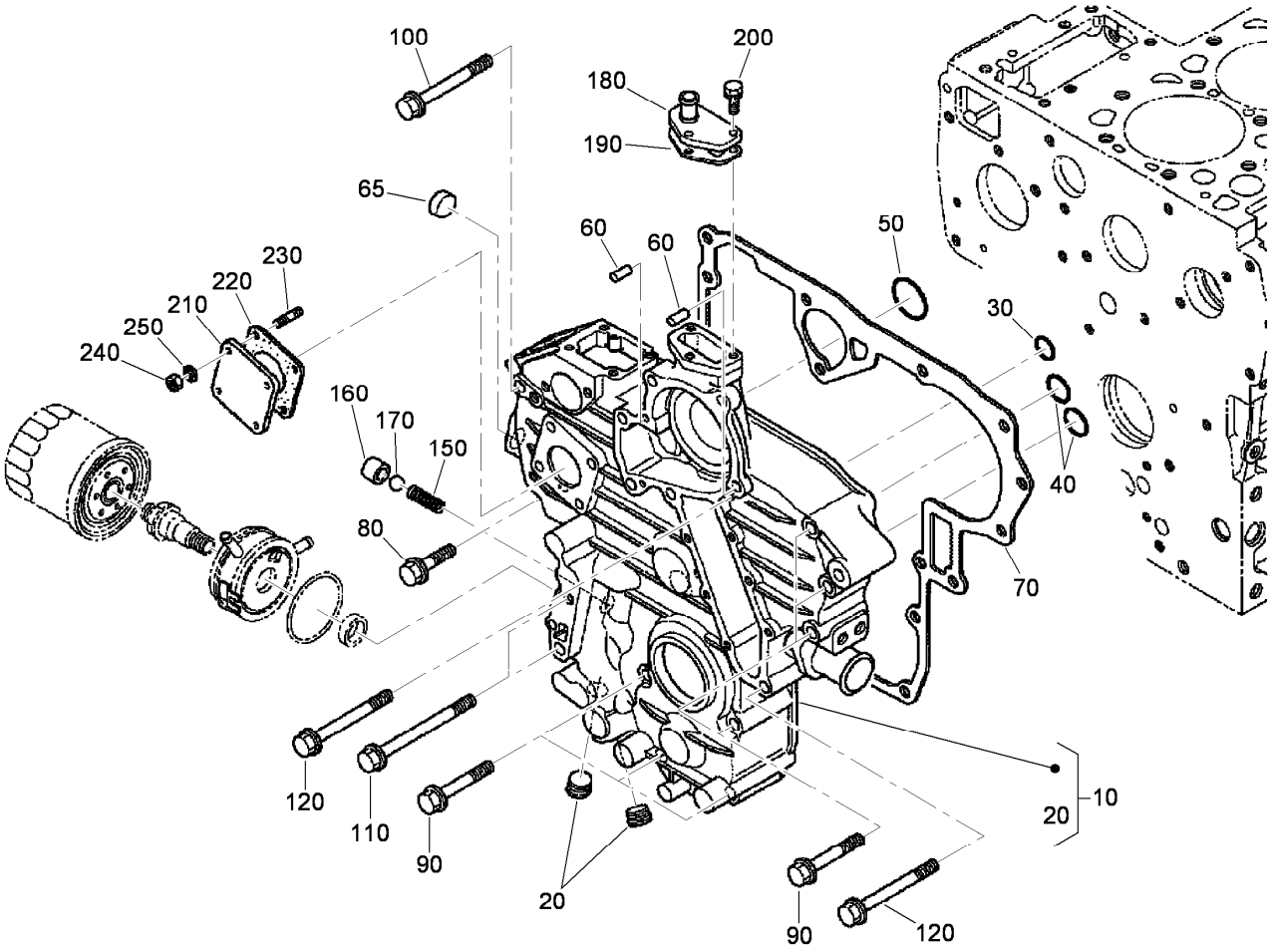

# Oil Pan Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8501 | 1 | Oil Pan ASM |
| 20 | 108-7053 | 1 | Gasket-Pan, Oil |
| 30 | 115-8502 | 24 | Bolt-Flange |
| 40 | 98-9686 | 2 | Plug-Drain |
| 50 | 98-9399 | 2 | Gasket |
| 60 | 115-8503 | 1 | Filter-Oil |
| 70 | 115-8504 | 1 | Bolt-Flange |
| 80 | 108-7054 | 1 | O-Ring |



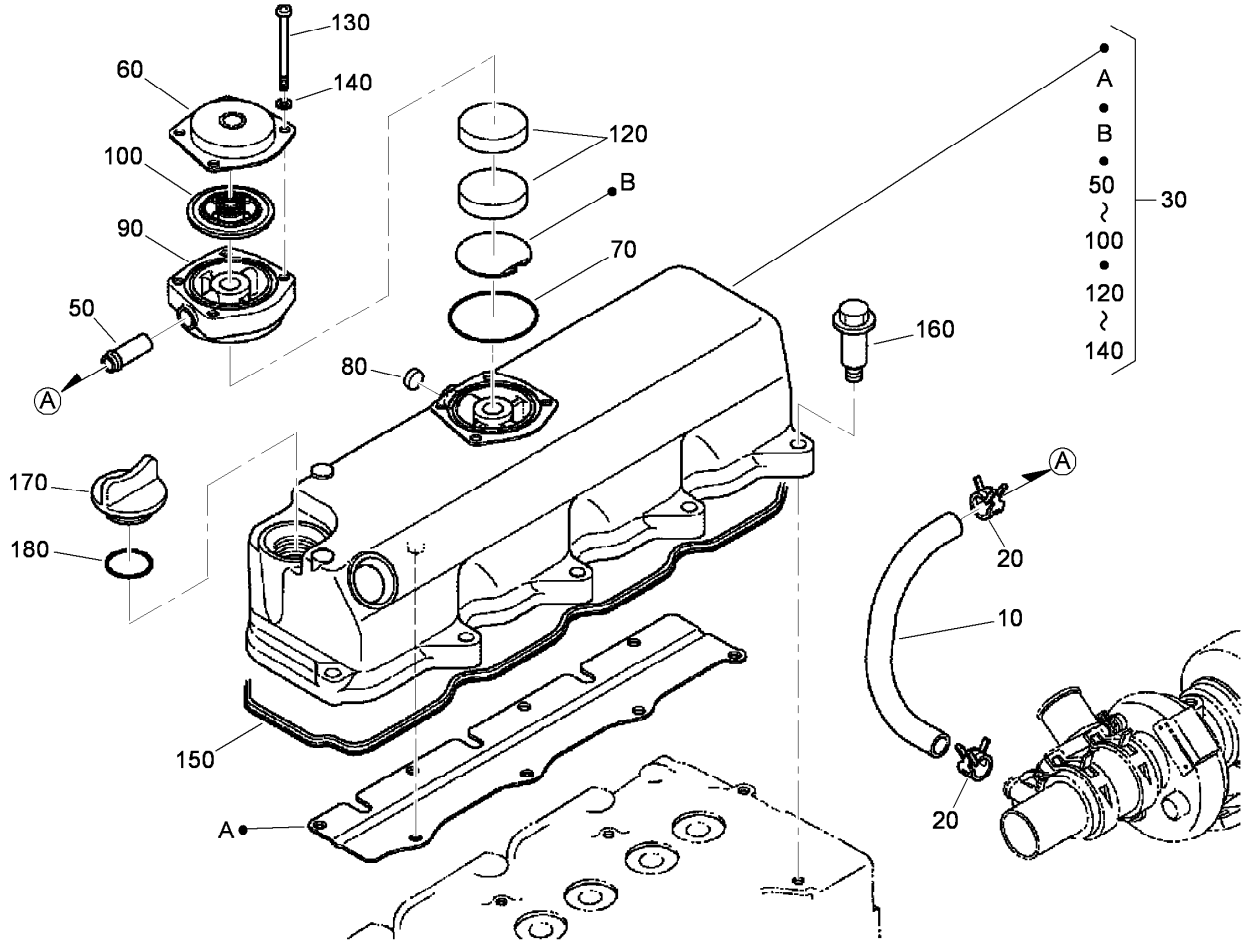

# Cylinder Head Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 98-7530 | 1 | Hook-Engine |
| 20 | 98-7526 | 1 | Bolt |
| 25 | 115-8505 | 1 | Hook |
| 30 | 115-8506 | 2 | Stud |
| 40 | 98-7534 | 1 | Nut |
| 50 | 105-2893 | 1 | Washer-Spring |
| 60 | 98-7536 | 1 | Washer-Plain |
| 70 | 115-8507 | 1 | Head-Cylinder |
| 80 | 98-7538 | 12 | Cap-Sealing |
| 90 | 98-7539 | 1 | Cap-Sealing |
| 100 | 98-7540 | 2 | Plug |
| 110 | 98-7541 | 4 | Guide-Valve, Intake |
| 120 | 115-8508 | 4 | Guide-Valve, Exhaust |
| 130 | 98-7543 | 18 | Bolt-Head, Cylinder |
| 140 | 115-8647 | 1 | Gasket-Head, Cylinder (1.15Mm) |
| 140 | 115-8510 | 1 | Gasket-Head, Cylinder (1.25Mm) |
| 140 | 115-8511 | 1 | Gasket-Head, Cylinder (1.30Mm) |
| 140 | 115-8512 | 1 | Gasket-Head, Cylinder (1.35Mm) |
| 150 | 115-8509 | 1 | Gasket-Head, Cylinder (1.20Mm) |
| 150 | 98-7762 | 1 | Plug |
| 160 | 98-7763 | 1 | Washer-W/Rubber |



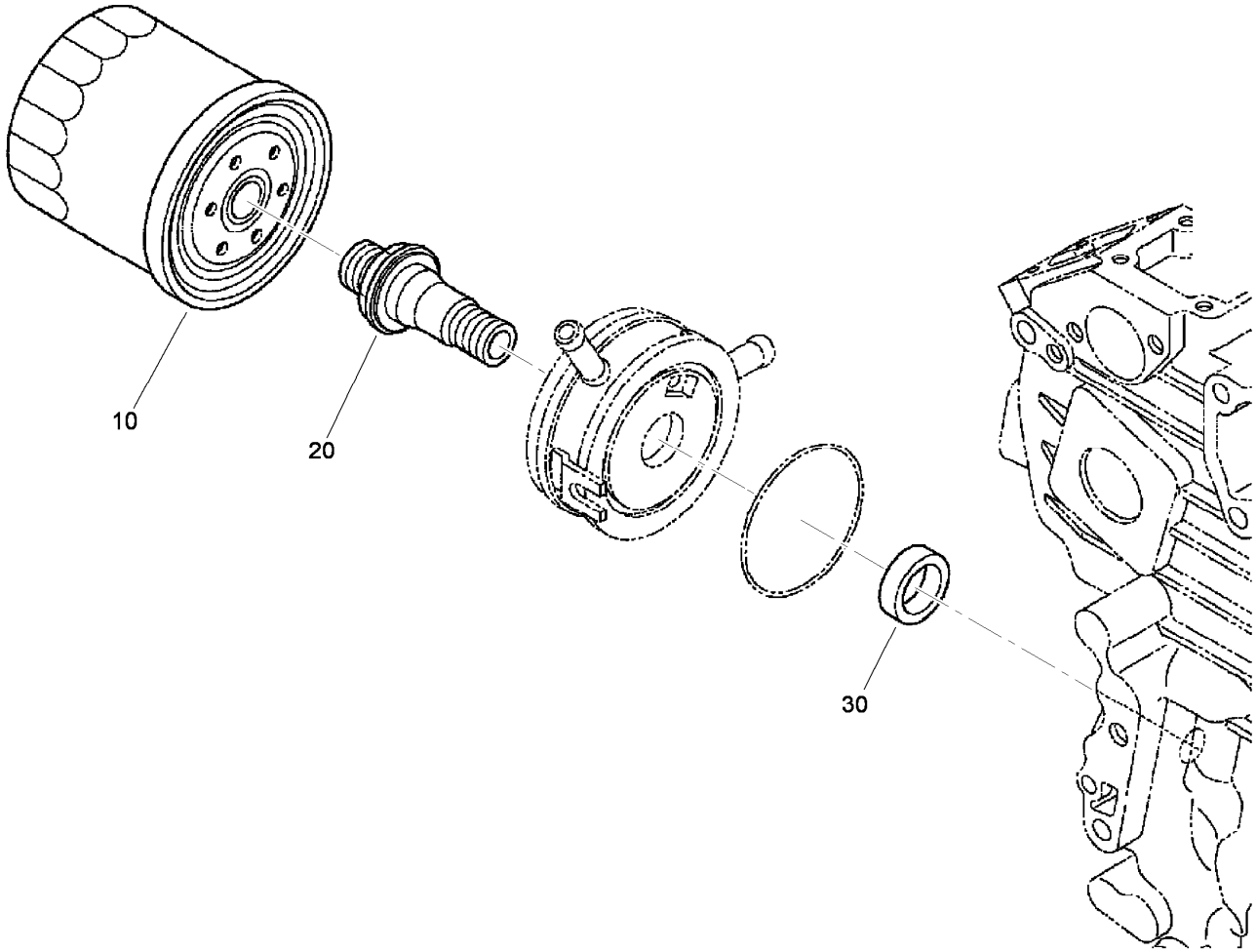

# Gear Case Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8513 | 1 | Gear Case ASM |
| 20 | 98-9598 | 2 | Plug |
| 30 | 107-0104 | 1 | O-Ring |
| 40 | 115-8514 | 2 | O-Ring |
| 50 | 107-0106 | 1 | O-Ring |
| 60 | 98-7504 | 2 | Pin-Straight |
| 65 | 115-8515 | 1 | Cap-Sealing |
| 70 | 115-8516 | 1 | Gasket-Case, Gear |
| 80 | 108-7085 | 1 | Bolt-Flange |
| 90 | 115-8517 | 7 | Bolt-Flange |
| 100 | 115-8518 | 1 | Bolt-Flange |
| 110 | 115-8519 | 2 | Bolt-Flange |
| 120 | 115-8520 | 4 | Bolt-Flange |
| 150 | 98-7563 | 1 | Spring |
| 160 | 98-7564 | 1 | Seat-Valve |
| 170 | 98-7565 | 1 | Ball |
| 180 | 98-7566 | 1 | Flange-Return, Water |
| 190 | 115-8521 | 1 | Gasket-Flange, Return |
| 200 | 98-7568 | 3 | Bolt |
| 210 | 98-7569 | 1 | Cover |
| 220 | 115-8522 | 1 | Gasket-Meter, Hour |
| 230 | 98-7571 | 4 | Stud |
| 240 | 98-7572 | 4 | Nut |
| 250 | 98-9367 | 4 | Washer-Spring |



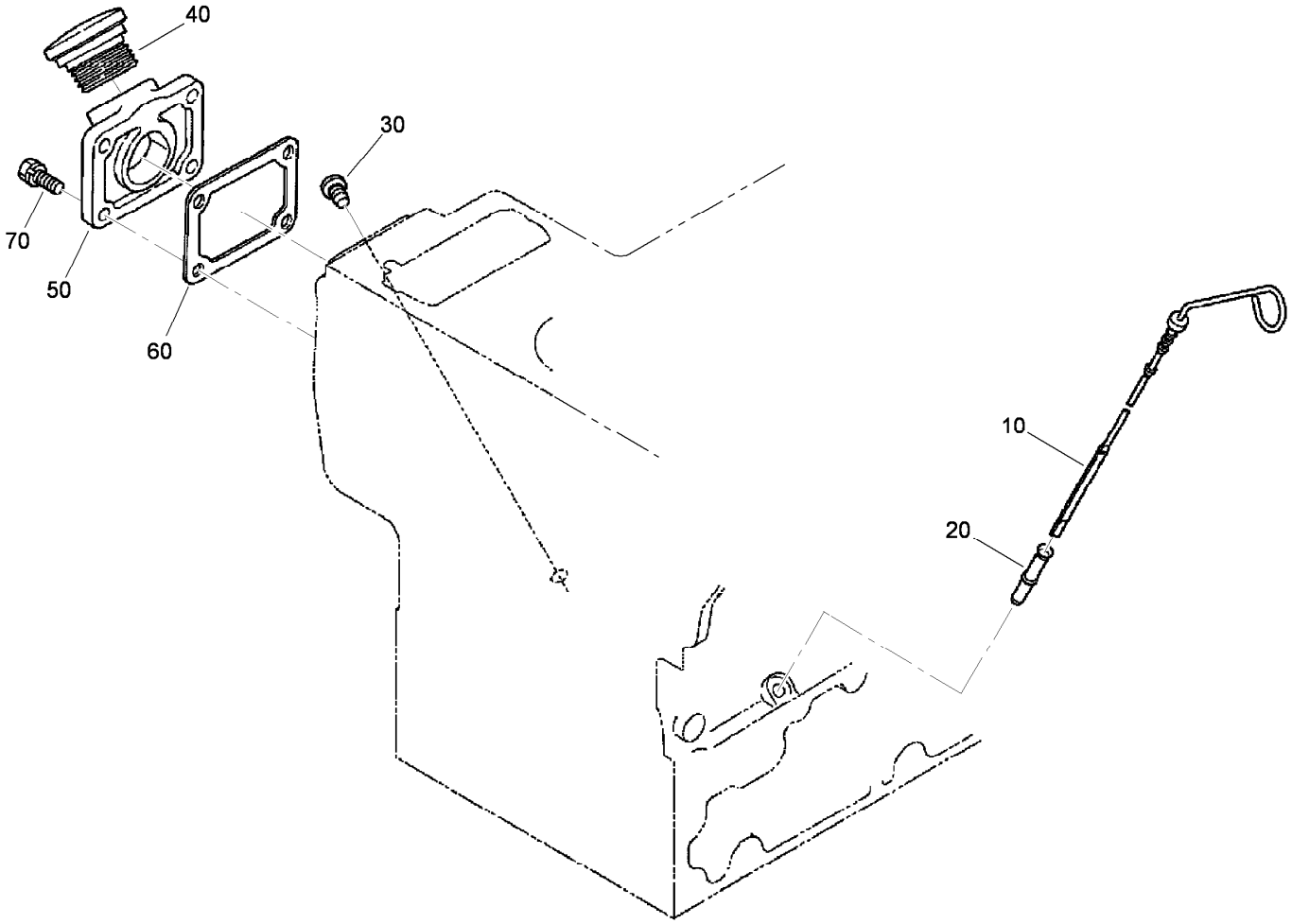

# Cylinder Head Cover Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8523 | 1 | Tube-Breather, Turbo |
| 20 | 115-8524 | 2 | Clamp-Hose |
| 30 | 115-8525 | 1 | Cylinder Head Cover ASM |
| 50 | 98-7766 | 1 | Pipe-Return, Water |
| 60 | 110-3714 | 1 | Cover-Breather |
| 70 | 108-7061 | 1 | O Ring-Breather |
| 80 | 115-3042 | 1 | Cap-Sealing |
| 90 | 115-8526 | 1 | Spacer-Breather |
| 100 | 110-3715 | 1 | Valve-Breather |
| 120 | 98-9493 | 2 | Element-Breather |
| 130 | 115-3044 | 4 | Screw-Pan Head |
| 140 | 100-2204 | 4 | Washer-Spring |
| 150 | 108-7062 | 1 | Gasket-Cover, Head |
| 160 | 108-7063 | 10 | Bolt |
| 170 | 98-9449 | 1 | Plug-Filler, Oil |
| 180 | 108-7064 | 1 | O-Ring |



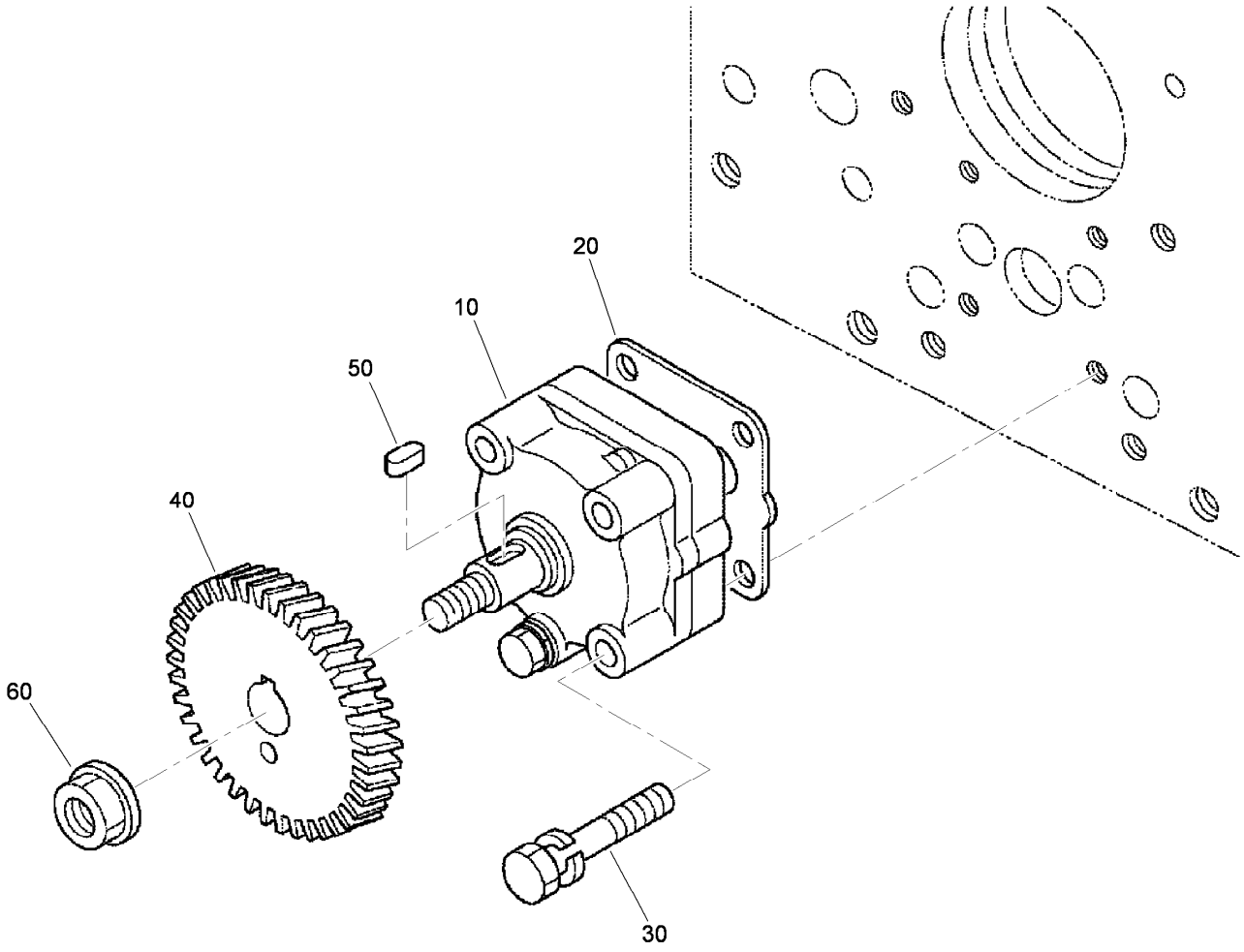

# Oil Filter Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8527 | 1 | Cartridge-Filter, Oil |
| 20 | 115-8528 | 1 | Connector |
| 30 | 115-8529 | 1 | Collar |



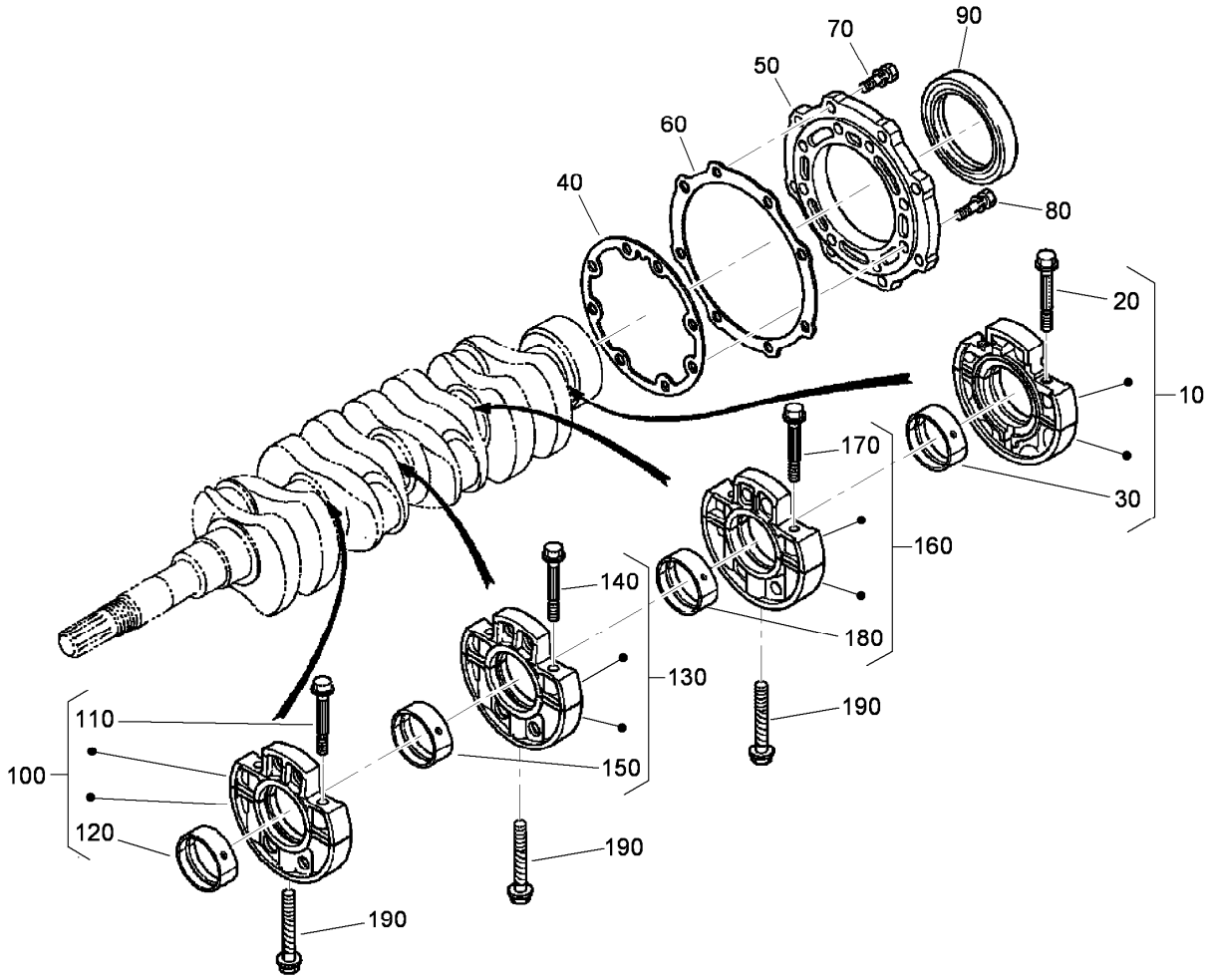

# Dipstick and Guide Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8530 | 1 | Gauge-Oil |
| 20 | 105-4580 | 1 | Guide-Gauge, Oil |
| 30 | 110-3720 | 1 | Plug-Gauge, Oil |
| 40 | 115-8531 | 1 | Plug-Filler, Oil |
| 50 | 115-8532 | 1 | Flange-Filler, Oil |
| 60 | 98-7604 | 1 | Gasket-Cover, Pump |
| 70 | 98-7605 | 4 | Bolt |




# Oil Pump Assembly

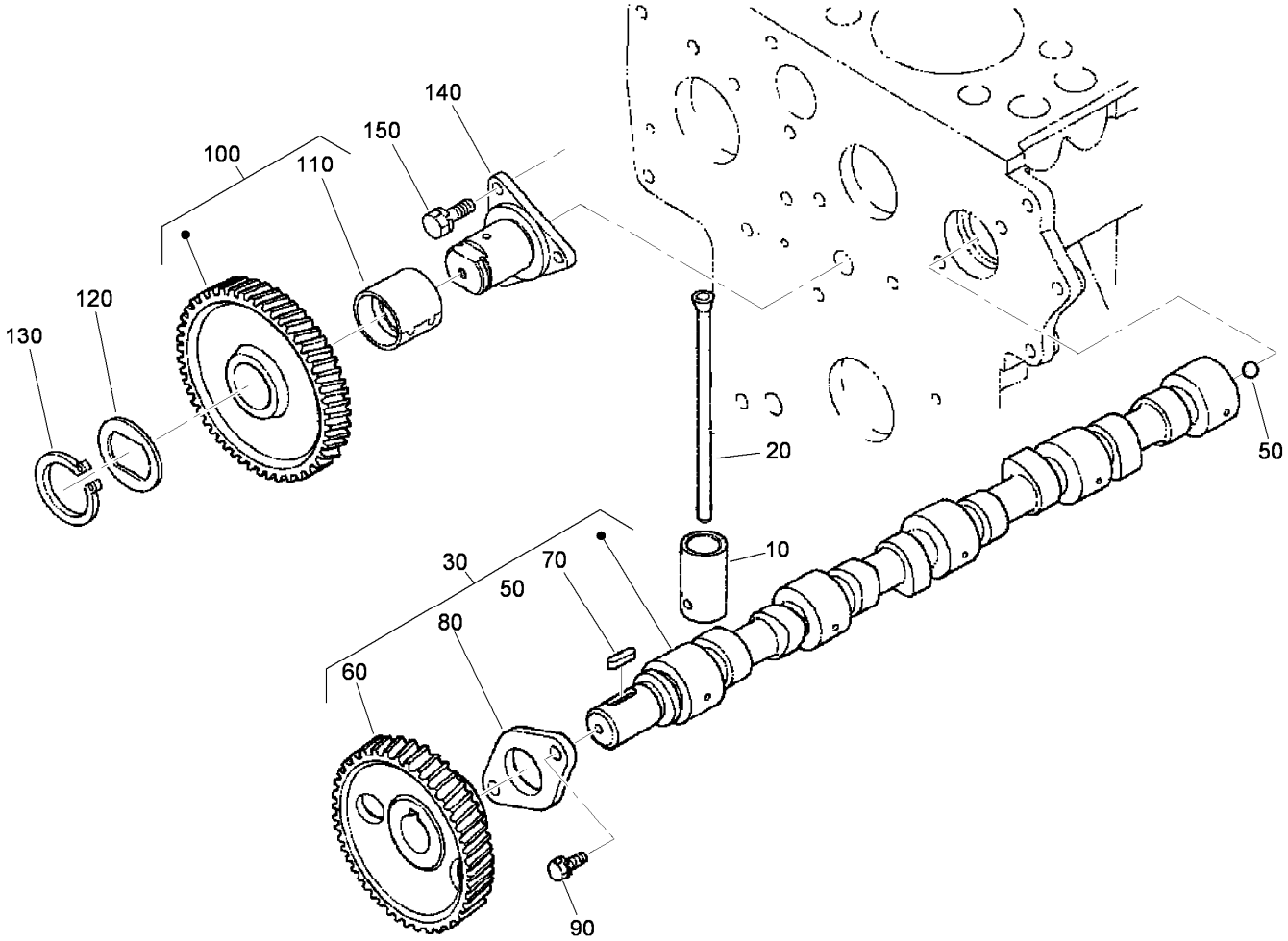
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 98-7512 | 1 | Oil Pump ASM |
| 20 | 98-7513 | 1 | Gasket-Pump, Oil |
| 30 | 105-3797 | 4 | Bolt |
| 40 | 115-8533 | 1 | Gear-Drive, Oil Pump |
| 50 | 98-7517 | 1 | Key-Feather |
| 60 | 98-7518 | 1 | Nut-Flange |




# Main Bearing Case Assembly

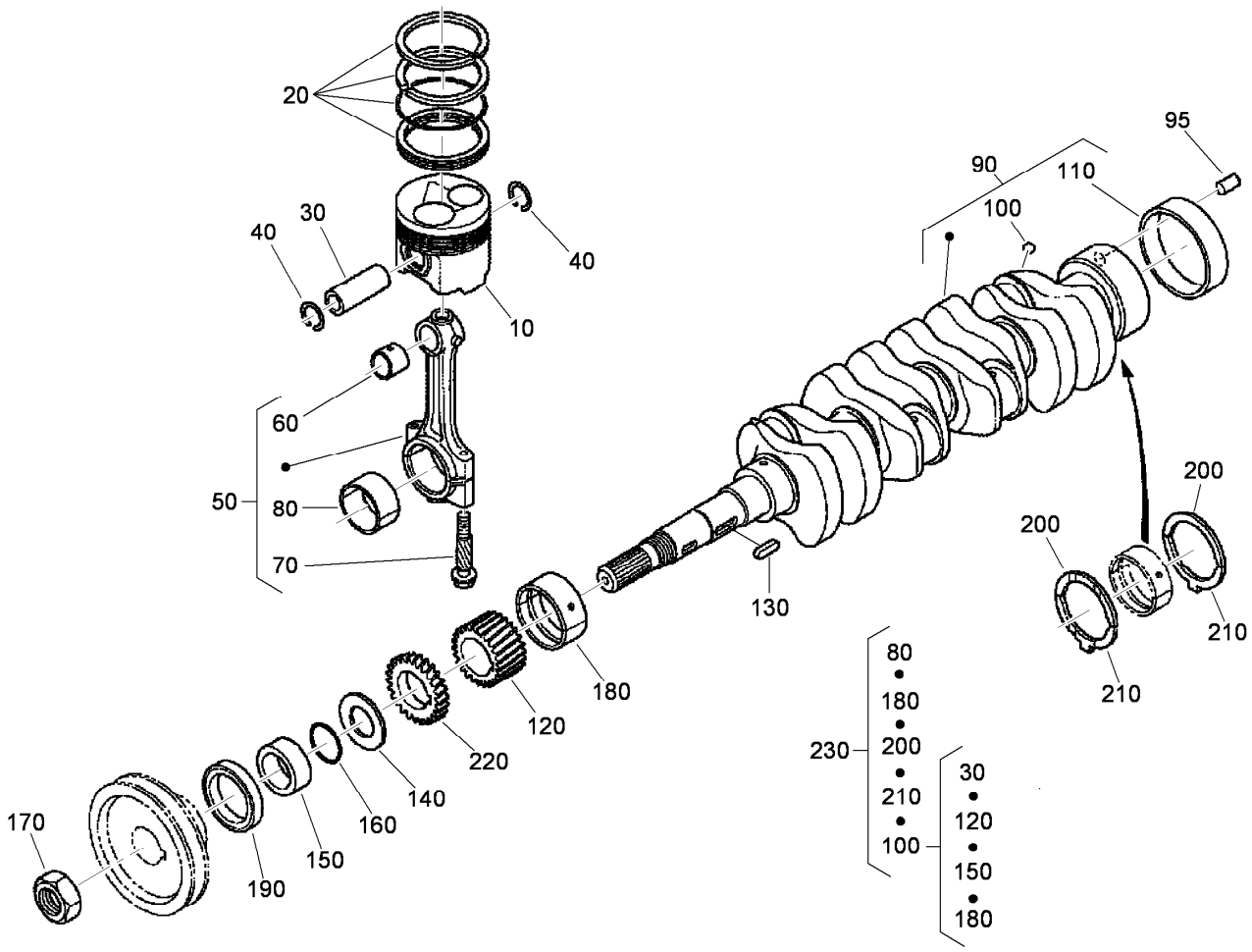
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 10 | 115-8534 | 1 | Wheel Bearing Case ASM |
| 20 | 108-7066 | 2 | Bolt-Case, Bearing |
| 30 | 108-7068 | 1 | Metal-Crankshaft (-0.20Mm) |
| 30 | 108-7067 | 1 | Metal-Crankshaft (STD) |
| 30 | 108-7069 | 1 | Metal-Crankshaft (-0.40Mm) |
| 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 | 115-8535 | 1 | Main Bearing Case ASM |
| 110 | 108-7066 | 2 | Bolt-Case, Bearing |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 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 | 108-7069 | 1 | Metal-Crankshaft (-0.40Mm) |
| 150 | 108-7068 | 1 | Metal-Crankshaft (-0.20Mm) |
| 150 | 108-7067 | 1 | Metal-Crankshaft (STD) |
| 160 | 115-8536 | 1 | Main Bearing Case ASM |
| 170 | 108-7066 | 2 | Bolt-Case, Bearing |
| 180 | 108-7067 | 1 | Metal-Crankshaft (STD) |
| 180 | 108-7068 | 1 | Metal-Crankshaft (-0.20Mm) |
| 180 | 108-7069 | 1 | Metal-Crankshaft (-0.40Mm) |
| 190 | 98-7444 | 3 | Bolt-Case, Bearing |




# Cam Shaft and Idle Gear Assembly

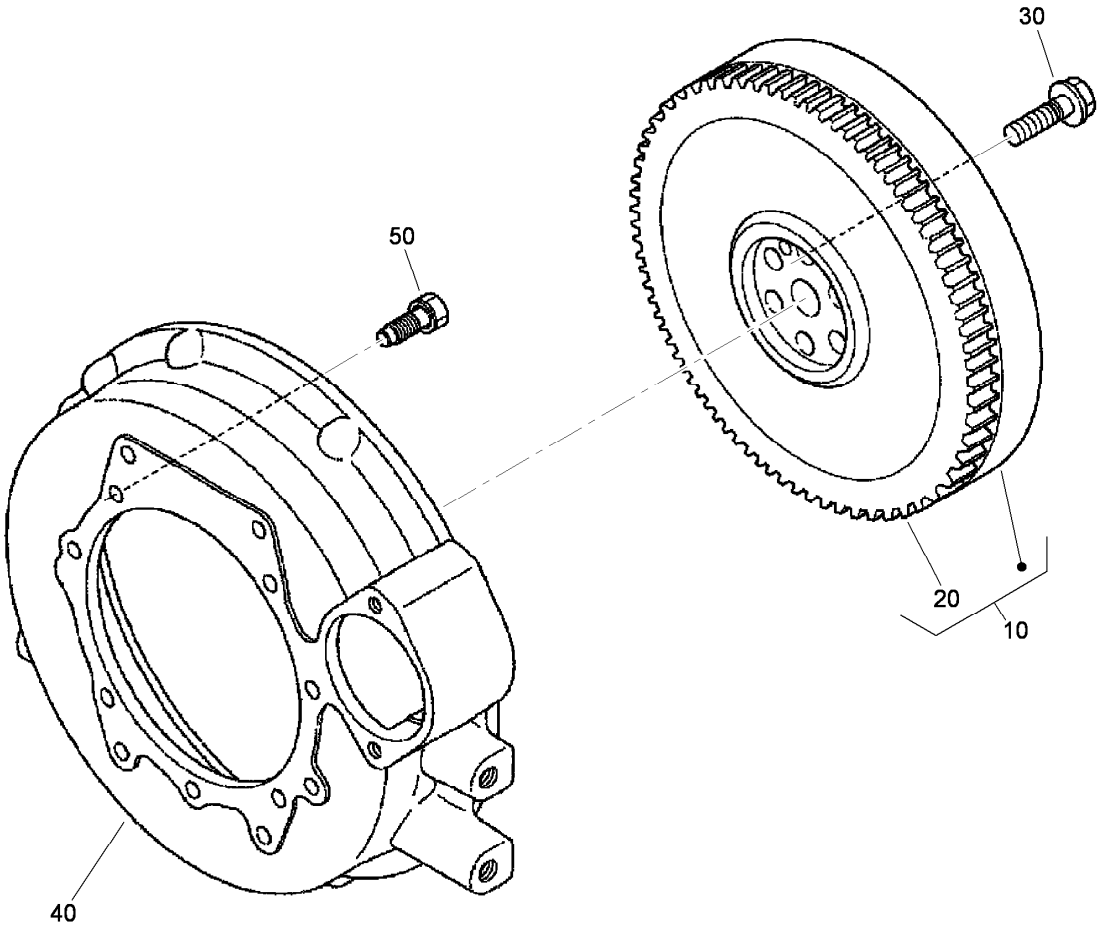
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 98-7445 | 8 | Tappet |
| 20 | 115-8537 | 8 | Rod-Push |
| 30 | 115-8538 | 1 | Camshaft ASM |
| 50 | 110-3729 | 1 | Ball |
| 60 | 115-8539 | 1 | Gear-Cam |
| 70 | 98-7451 | 1 | Key-Feather |
| 80 | 98-7452 | 1 | Stopper-Camshaft |
| 90 | 98-7453 | 2 | Bolt |
| 100 | 107-0109 | 1 | Gear-Idler |
| 110 | 107-0110 | 1 | Bushing-Gear, Idler |
| 120 | 107-0111 | 1 | Collar |
| 130 | 107-0112 | 1 | Circlip-External |
| 140 | 115-8646 | 1 | Shaft-Gear, Idler |
| 150 | 98-7453 | 3 | Bolt |




# Piston and Crankshaft Assembly

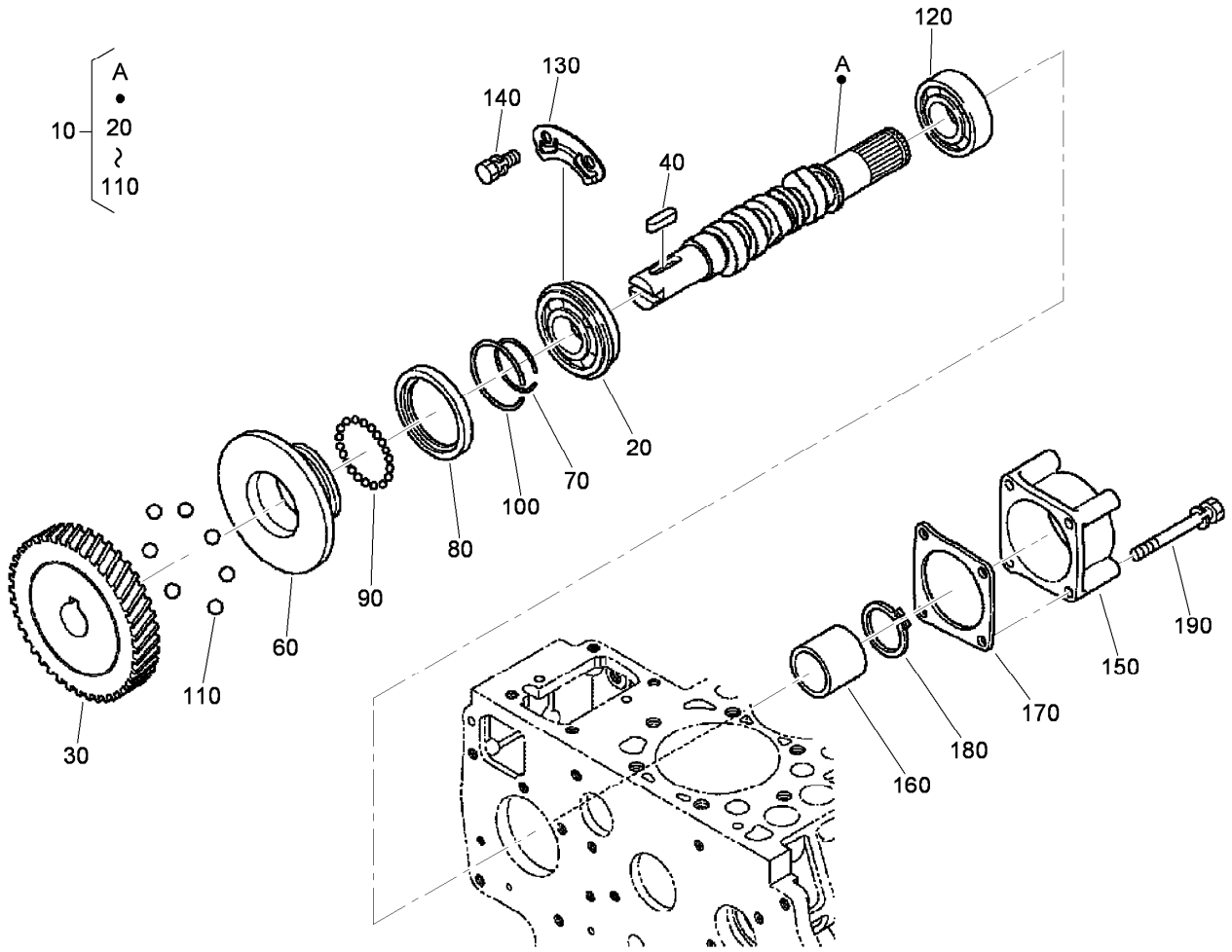
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 10 | 115-8540 | 4 | Piston |
| 10 | 115-8541 | 4 | Piston |
| 20 | 115-8543 | 1 | Piston Ring ASM |
| 20 | 115-8542 | 4 | Piston Ring ASM |
| 30 | 115-8544 | 4 | Pin-Piston |
| 40 | 112-7002 | 8 | Circlip |
| 50 | 115-8545 | 4 | Connecting Rod ASM |
| 60 | 115-8546 | 4 | Bushing-Pin, Piston |
| 70 | 98-7468 | 8 | Bolt-Rod, Connecting |
| 80 | 98-7469 | 4 | Metal-Crankpin (STD) |
| 80 | 115-8548 | 4 | Metal-Crankpin (-0.40Mm) |
| 80 | 115-8547 | 4 | Metal-Crankpin (-0.20Mm) |
| 90 | 115-8549 | 1 | Crankshaft |
| 95 | 115-8550 | 1 | Pin-Straight |
| 100 | 110-3729 | 4 | Ball |
| 110 | 98-7474 | 1 | Sleeve-Crankshaft |
| 120 | 115-8551 | 1 | Gear-Crank |
| 130 | 115-8552 | 1 | Key-Feather |
| 140 | 98-7476 | 1 | Slinger-Oil |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 150 | 98-7477 | 1 | Collar-Crankshaft |
| 160 | 98-7478 | 1 | O-Ring |
| 170 | 98-7479 | 1 | Nut-Crankshaft |
| 180 | 108-7075 | 1 | Metal-Crankshaft (STD) |
| 180 | 108-7076 | 1 | Metal-Crankshaft (-0.20Mm) |
| 180 | 108-7077 | 1 | Metal-Crankshaft (-0.40Mm) |
| 190 | 98-7480 | 1 | Seal-Oil |
| 200 | 108-7078 | 2 | Metal-Side (STD) |
| 200 | 108-7079 | 2 | Metal-Side (+0.20Mm) |
| 200 | 108-7080 | 2 | Metal-Side (+0.40Mm) |
| 210 | 108-7081 | 2 | Metal-Side (STD) |
| 210 | 108-7082 | 2 | Metal-Side (+0.20Mm) |
| 210 | 108-7083 | 2 | Metal-Side (+0.40Mm) |
| 220 | 115-8553 | 1 | Gear-Drive, Oil Pump |
| 230 | 115-8554 | 1 | Engine Metal Kit |
| 230 | 115-8555 | 1 | Engine Metal Kit (-0.20Mm/+0.20Mm) |
| 230 | 115-8556 | 1 | Engine Metal Kit (-0.40Mm/+0.40Mm) |



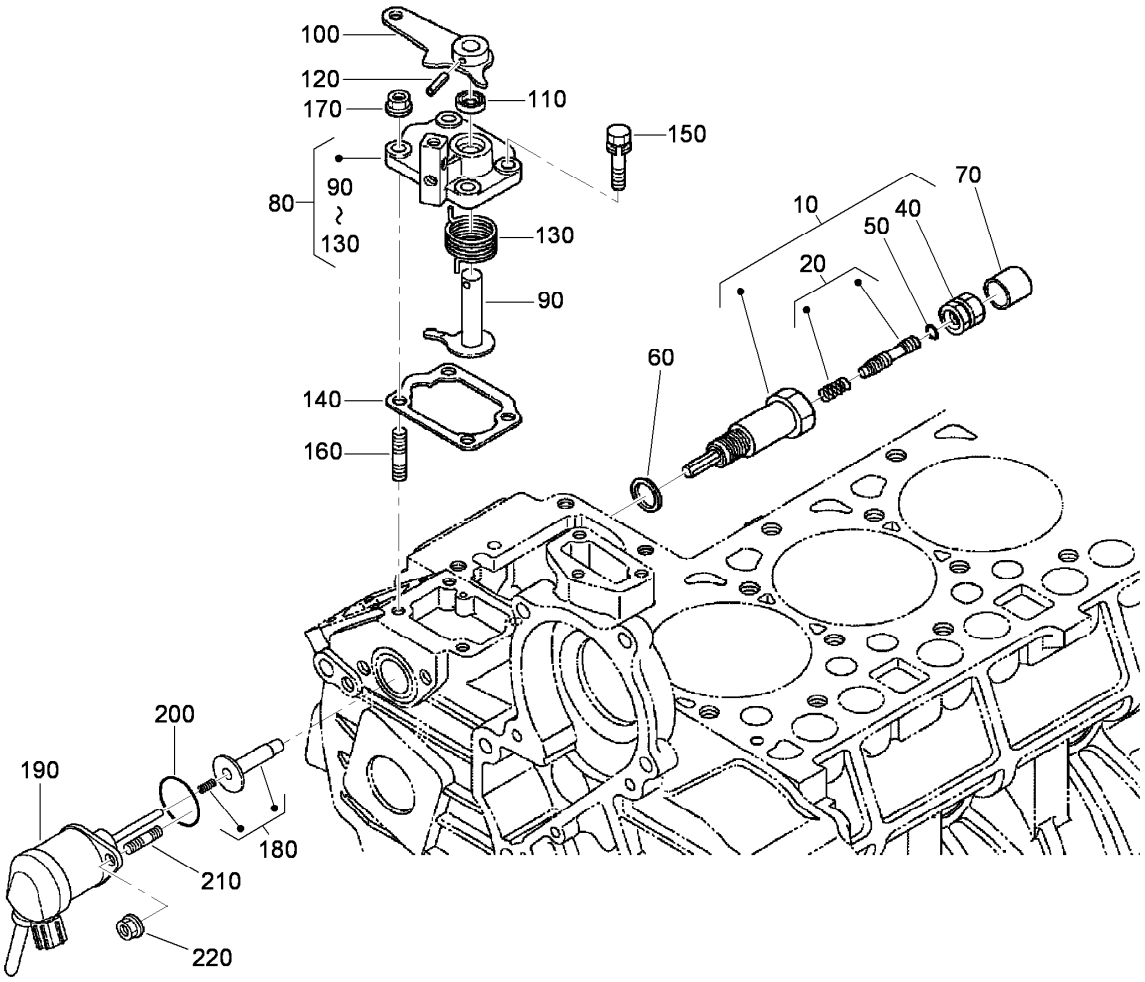

# Flywheel Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8557 | 1 | Flywheel ASM |
| 20 | 115-8558 | 1 | Gear-Ring |
| 30 | 112-8408 | 6 | Bolt-Flywheel |
| 40 | 115-8559 | 1 | Housing-Flywheel |
| 50 | 98-7885 | 11 | Bolt |



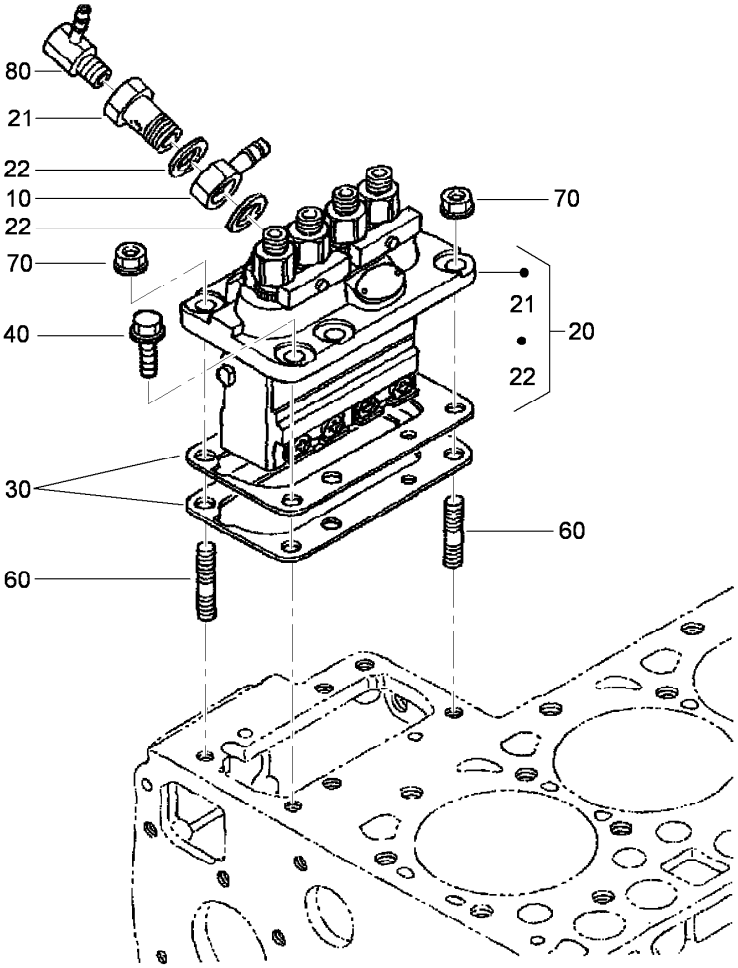

# Fuel Camshaft and Governor Shaft Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8560 | 1 | Fuel Camshaft ASM |
| 20 | 115-8561 | 1 | Bearing-Ball |
| 30 | 98-7574 | 1 | Gear-Pump, Injection |
| 40 | 98-7575 | 1 | Key-Feather |
| 60 | 98-7577 | 1 | Sleeve-Governor |
| 70 | 98-7578 | 1 | Circlip-Sleeve, Governor |
| 80 | 98-7579 | 1 | Case-Ball, Governor |
| 90 | 98-7580 | 39 | Ball |
| 100 | 98-7581 | 1 | Circlip |
| 110 | 98-7582 | 7 | Ball |
| 120 | 115-8562 | 1 | Bearing-Ball |
| 130 | 115-8563 | 1 | Stopper-Fuel Camshaft |
| 140 | 100-9195 | 2 | Bolt |
| 150 | 115-8564 | 1 | Cover-Camshaft, Fuel |
| 160 | 115-8565 | 1 | Collar |
| 170 | 115-8566 | 1 | Gasket |
| 180 | 98-7589 | 1 | Circlip-External |
| 190 | 98-7590 | 4 | Bolt |



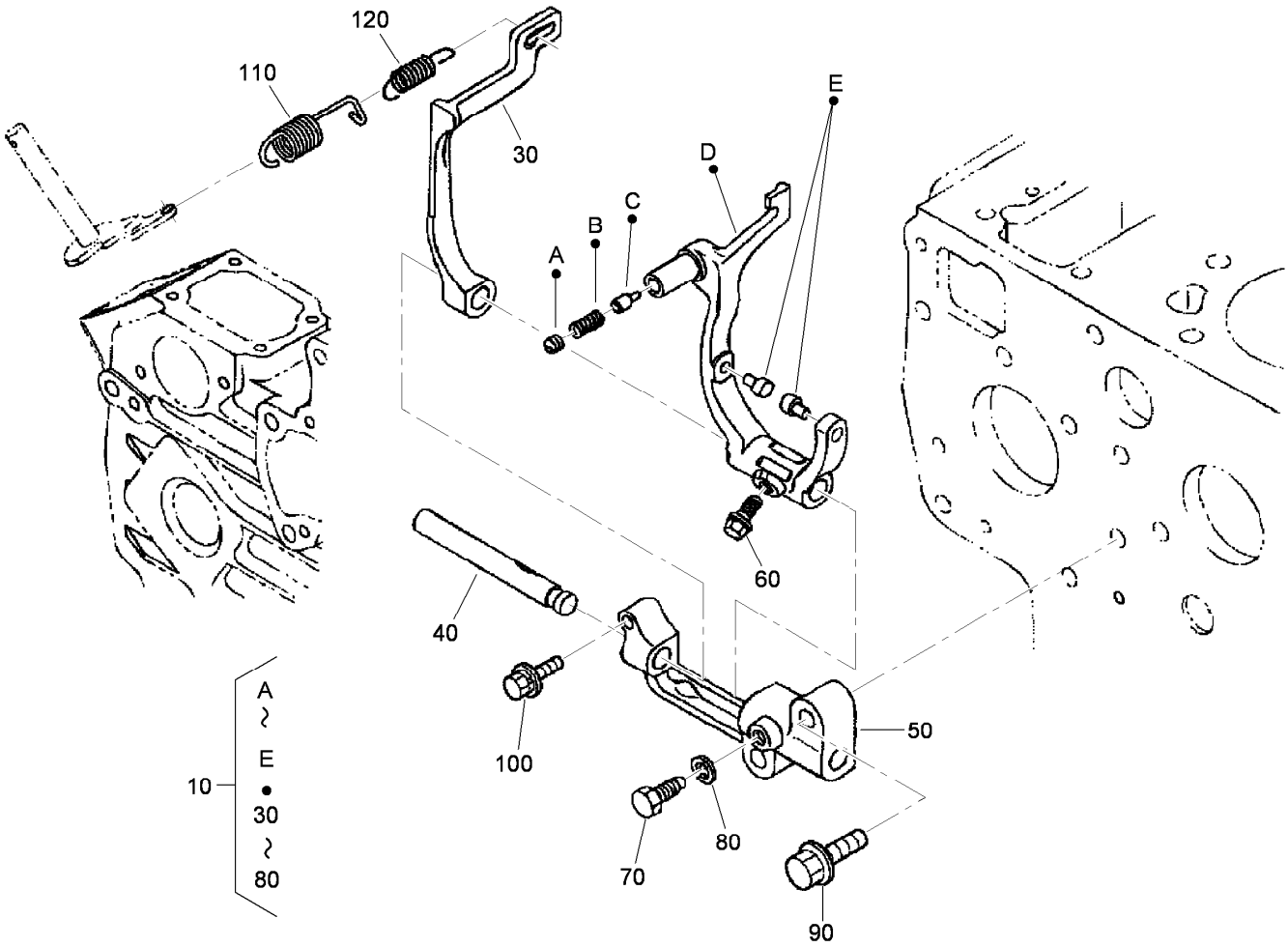

# Idle Apparatus and Stop Solenoid Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8567 | 1 | Apparatus-Idling |
| 20 | 115-8568 | 1 | Adjustment Bolt ASM |
| 40 | 115-8569 | 1 | Nut-Spring |
| 50 | 115-8570 | 1 | O-Ring |
| 60 | 115-8571 | 1 | Gasket |
| 70 | 115-8572 | 1 | Cap |
| 80 | 115-8573 | 1 | Engine Stop Lever ASM |
| 90 | 115-8574 | 1 | Lever-Stop |
| 100 | 115-8575 | 1 | Lever-Stop, Engine |
| 110 | 115-8576 | 1 | Seal-Oil |
| 120 | 98-7602 | 1 | Pin-Spring |
| 130 | 115-8577 | 1 | Spring-Return |
| 140 | 115-8578 | 1 | Gasket-Plate |
| 150 | 98-7568 | 2 | Bolt |
| 160 | 98-7571 | 2 | Stud |
| 170 | 100-2203 | 2 | Nut-Flange |
| 180 | 115-8579 | 1 | Guide-Solenoid |
| 190 | 115-8580 | 1 | Solenoid ASM |
| 200 | 110-3762 | 1 | O-Ring |
| 210 | 98-7571 | 2 | Stud |
| 220 | 100-2203 | 2 | Nut-Flange |



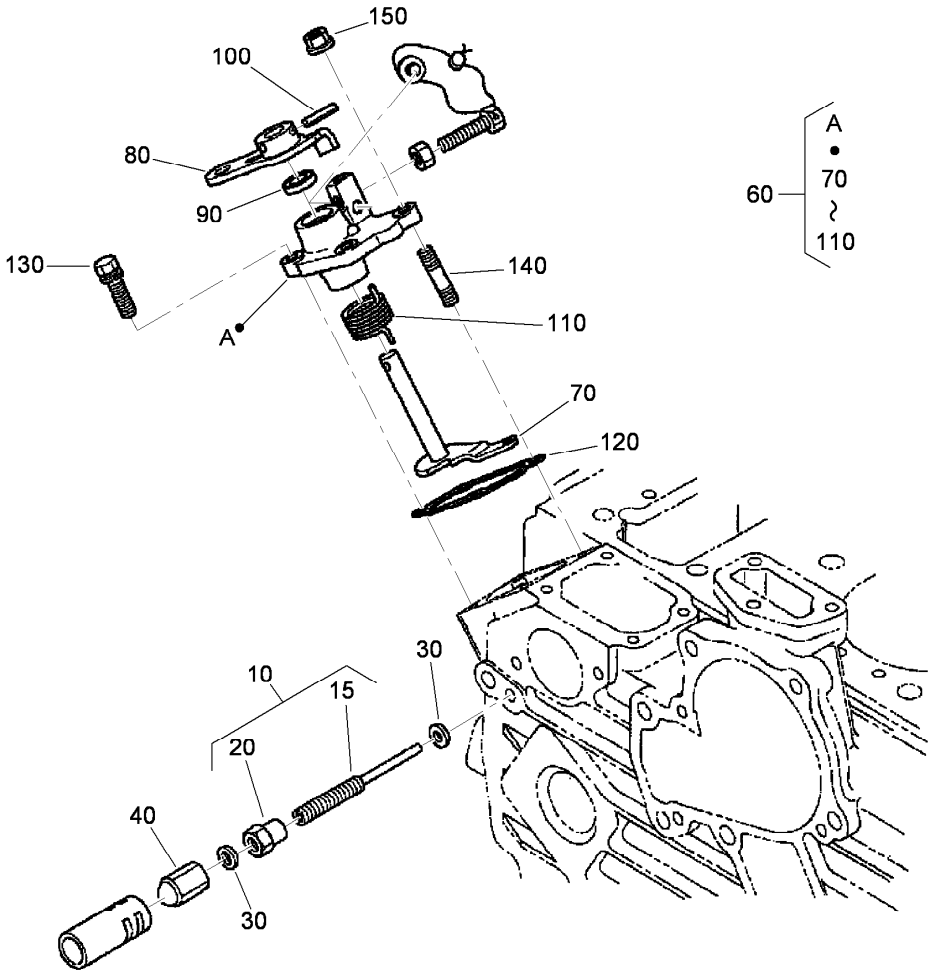

# Injection Pump Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 98-7617 | 1 | Joint |
| 20 | 115-8581 | 1 | Injection Pump ASM |
| 21 | 98-7635 | 1 | Screw |
| 22 | 98-7636 | 2 | Gasket |
| 30 | 115-8582 | 1 | Shim-Pump, Injection (0.175Mm) |
| 30 | 98-7607 | 1 | Shim-Pump, Injection (0.200Mm) |
| 30 | 107-0147 | 1 | Shim-Pump, Injection (0.250Mm) |
| 30 | 107-0148 | 1 | Shim-Pump, Injection (0.300Mm) |
| 40 | 115-8583 | 4 | Bolt-Flange |
| 60 | 100-1558 | 2 | Stud |
| 70 | 112-2492 | 2 | Nut-Flange |
| 80 | 107-4300 | 1 | Orifice ASM |



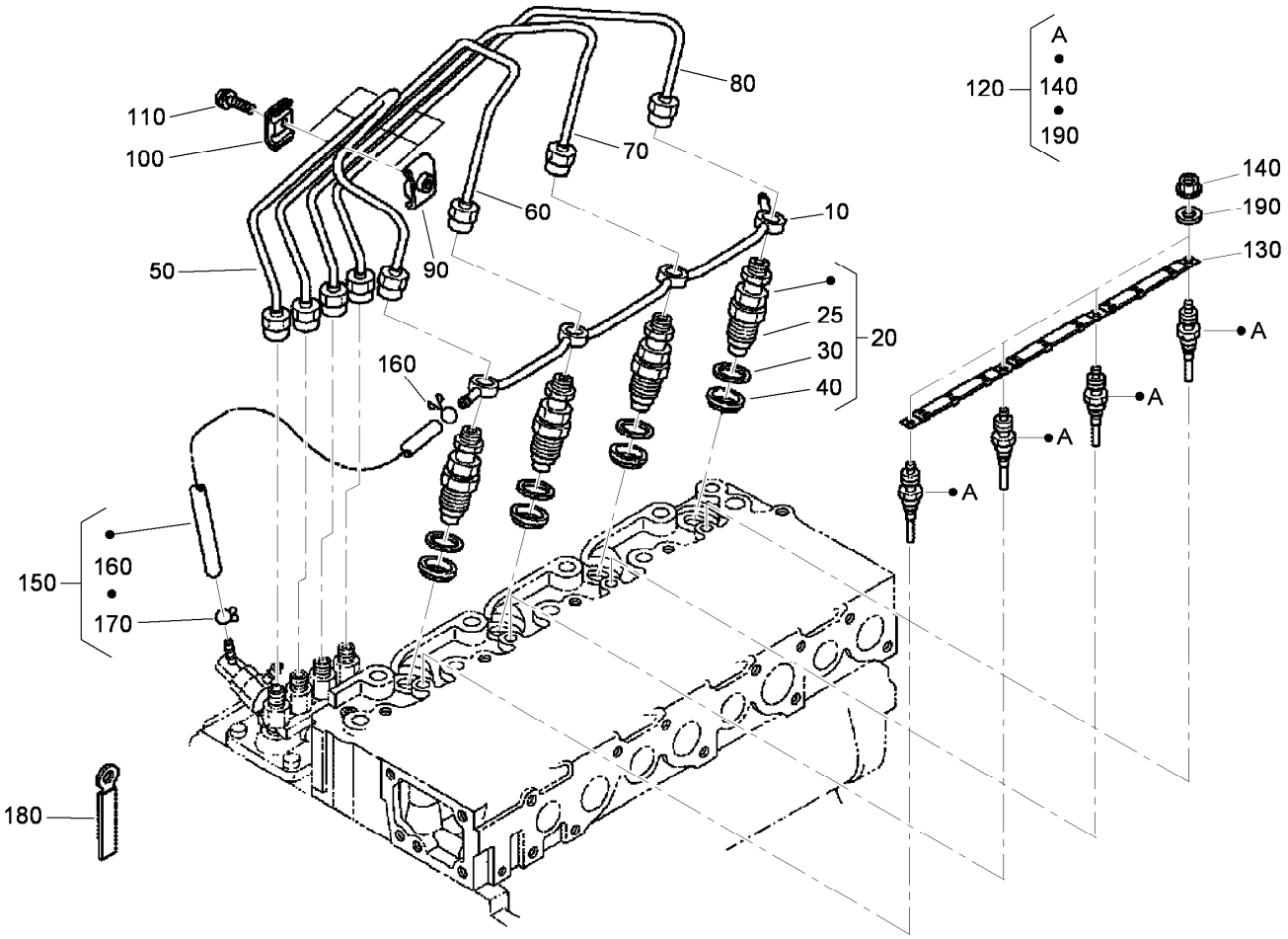

# Governor Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8584 | 1 | Fork Lever ASM |
| 30 | 115-8585 | 1 | Lever-Fork |
| 40 | 107-0120 | 1 | Shaft-Lever, Fork |
| 50 | 98-7643 | 1 | Holder-Lever, Fork |
| 60 | 107-0116 | 1 | Bolt-Flange |
| 70 | 98-7644 | 1 | Bolt |
| 80 | 98-9367 | 1 | Washer-Spring |
| 90 | 108-7085 | 2 | Bolt-Flange |
| 100 | 108-7086 | 1 | Bolt |
| 110 | 115-8586 | 1 | Spring-Governor |
| 120 | 115-8587 | 1 | Spring-Governor |



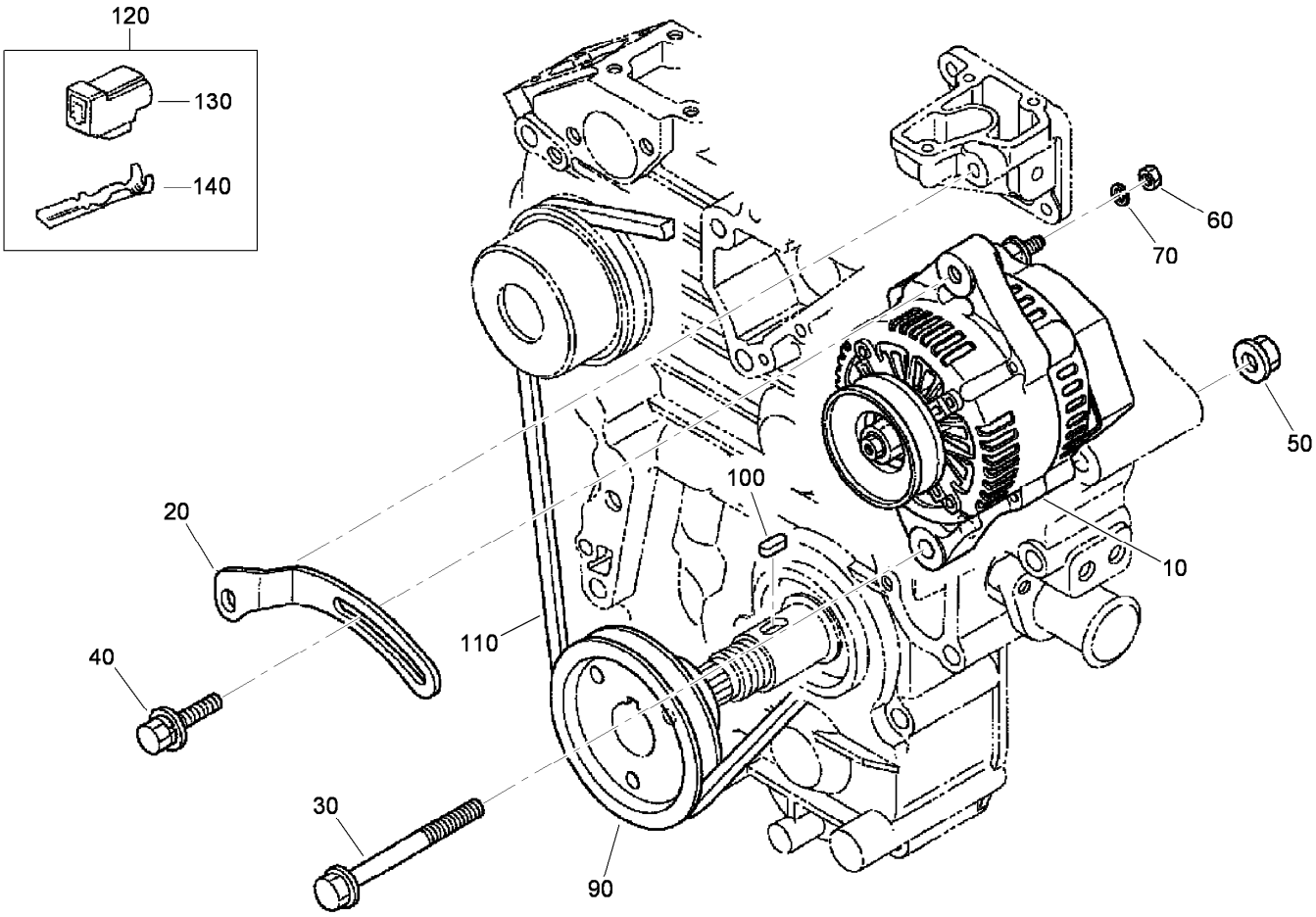

# Speed Control Plate Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 107-0132 | 1 | Adjustable Bolt ASM |
| 15 | 115-8588 | 1 | Bolt-Adjusting |
| 20 | 98-7653 | 1 | Nut |
| 30 | 98-7654 | 2 | Gasket |
| 40 | 98-7655 | 1 | Nut-Cap |
| 60 | 115-8589 | 1 | Control Plate ASM |
| 70 | 115-8590 | 1 | Lever-Governor |
| 80 | 115-8591 | 1 | Lever-Control, Speed |
| 90 | 115-8576 | 1 | Seal-Oil |
| 100 | 98-7602 | 1 | Pin-Spring |
| 110 | 115-8593 | 1 | Spring-Return |
| 120 | 115-8578 | 1 | Gasket-Plate |
| 130 | 98-7568 | 2 | Bolt |
| 140 | 98-7571 | 2 | Stud |
| 150 | 100-2203 | 2 | Nut-Flange |



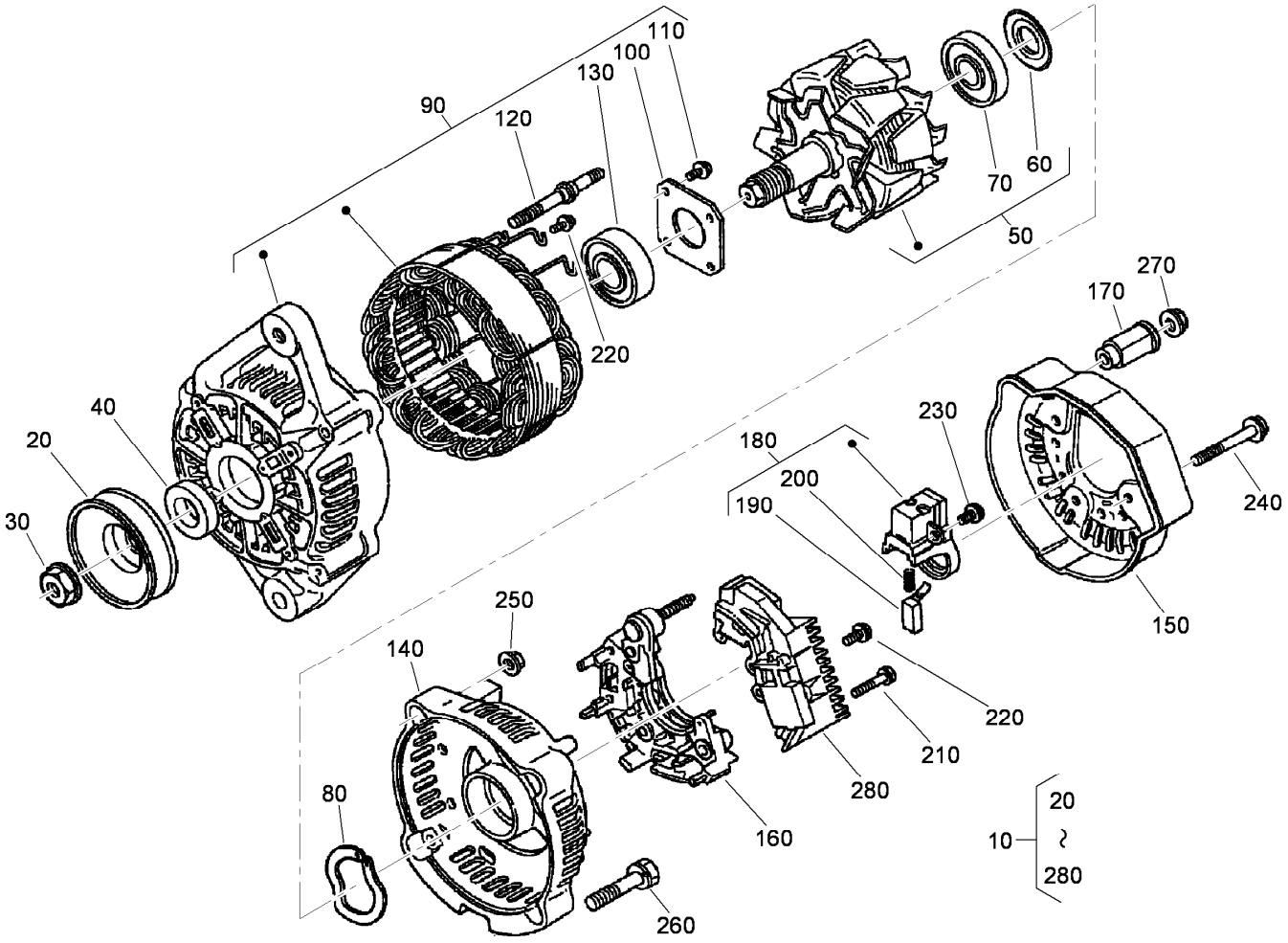

# Nozzle Holder and Glow Plug Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 100-9213 | 1 | Overflow Pipe ASM |
| 20 | 100-9214 | 4 | Nozzle Holder Kit |
| 25 | 100-9215 | 4 | Piece-Nozzle |
| 30 | 98-7676 | 4 | Gasket |
| 40 | 98-7677 | 4 | Seal-Heat |
| 50 | 100-9216 | 1 | Pipe-Injection |
| 60 | 100-9217 | 1 | Pipe-Injection |
| 70 | 100-9218 | 1 | Pipe-Injection |
| 80 | 100-9219 | 1 | Pipe-Injection |
| 90 | 98-7682 | 3 | Clamp-Pipe |
| 100 | 98-7683 | 3 | Clamp-Pipe |
| 110 | 98-9364 | 3 | Screw (With Washer) |
| 120 | 98-7685 | 4 | Plug-Glow |
| 130 | 98-7686 | 1 | Cord-Plug, Glow |
| 140 | 99-8377 | 4 | Nut-Flange |
| 150 | 98-7670 | 1 | Overflow Pipe ASM |
| 160 | 98-7671 | 1 | Clip-Pipe |
| 170 | 115-8595 | 1 | Clip-Pipe |
| 180 | 98-7673 | 1 | Clamp-Cord |
| 190 | 99-8378 | 4 | Washer-Plain |




# Alternator and Pulley Assembly

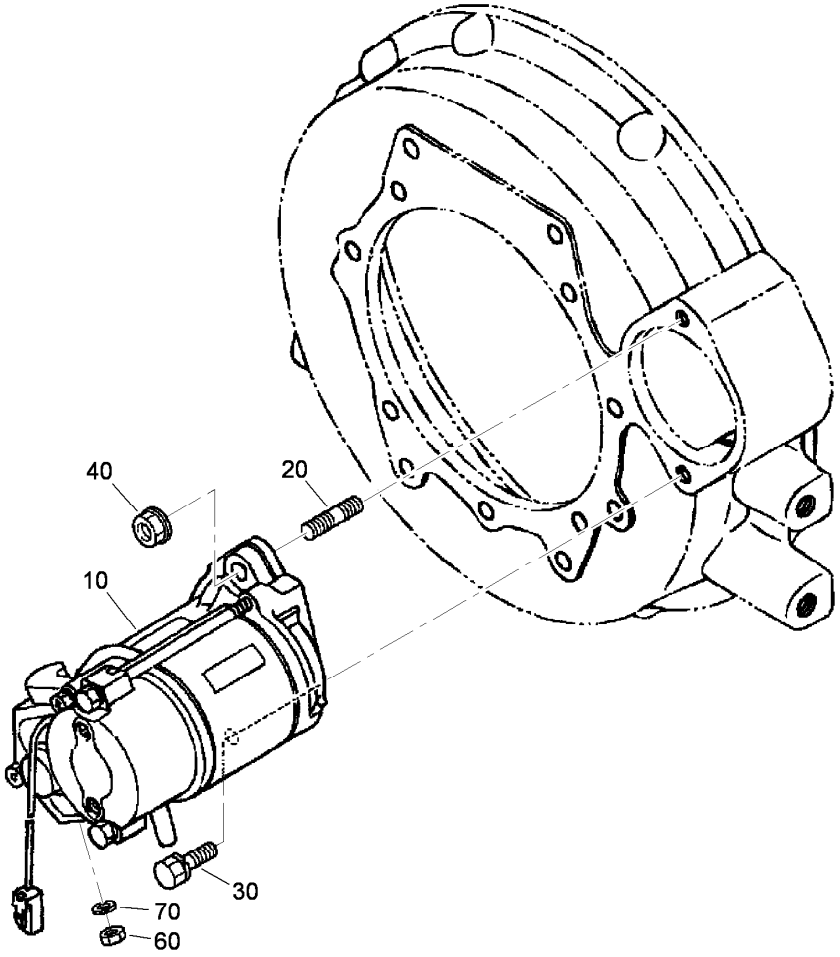
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 98-7693 | 1 | Alternator ASM |
| 20 | 105-2872 | 1 | Bracket-Alternator |
| 30 | 115-8596 | 1 | Bolt-Flange |
| 40 | 108-7088 | 1 | Bolt |
| 50 | 115-8597 | 1 | Nut-Flange |
| 60 | 98-7572 | 1 | Nut |
| 70 | 98-7699 | 1 | Washer-Spring |
| 90 | 115-8598 | 1 | Pulley-Drive, Fan |
| 100 | 98-7451 | 1 | Key-Feather |
| 110 | 115-8599 | 1 | Belt-V |
| 120 | 115-8600 | 1 | Coupler ASM |
| 130 | 115-8601 | 1 | Connector |
| 140 | 115-8602 | 2 | Terminal |




# Alternator Component Part Assembly

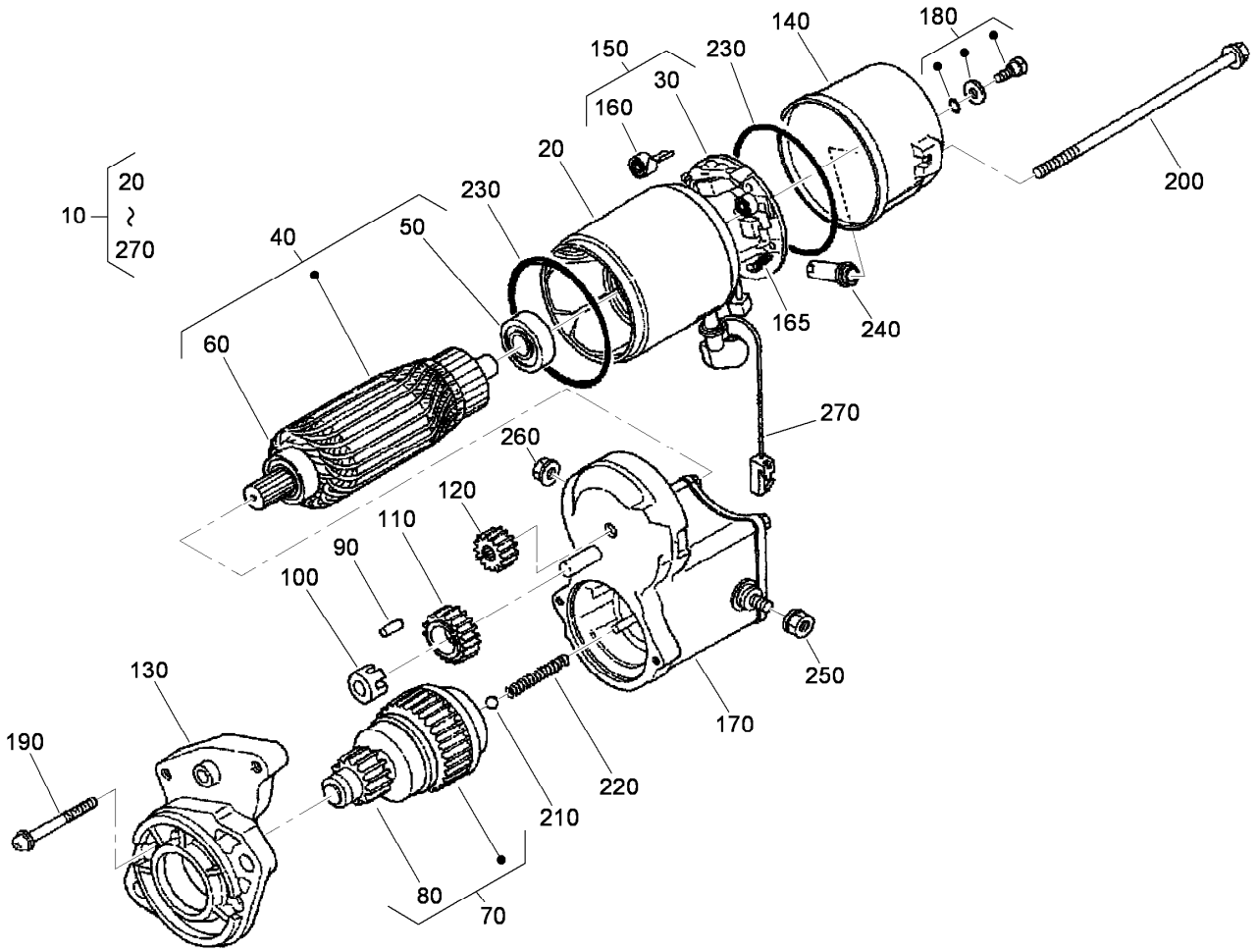
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 10 | 98-7693 | 1 | Alternator ASM |
| 20 | 98-7707 | 1 | Pulley-Alternator |
| 30 | 98-7708 | 1 | Nut |
| 40 | 98-7709 | 1 | Collar |
| 50 | 107-0136 | 1 | Rotor ASM |
| 60 | 98-7711 | 1 | Cover-Bearing |
| 70 | 107-0138 | 1 | Bearing-Ball |
| 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 |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 150 | 107-0140 | 1 | Cover-End |
| 160 | 98-7721 | 1 | Rectifier ASM |
| 170 | 98-7722 | 1 | Bushing-Insulation |
| 180 | 107-0141 | 1 | Brush Holder ASM |
| 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 |
| 250 | 98-7730 | 2 | Nut |
| 260 | 98-7731 | 2 | Bolt |
| 270 | 98-7732 | 1 | Nut |
| 280 | 110-3799 | 1 | Regulator ASM |




# Starter Assembly

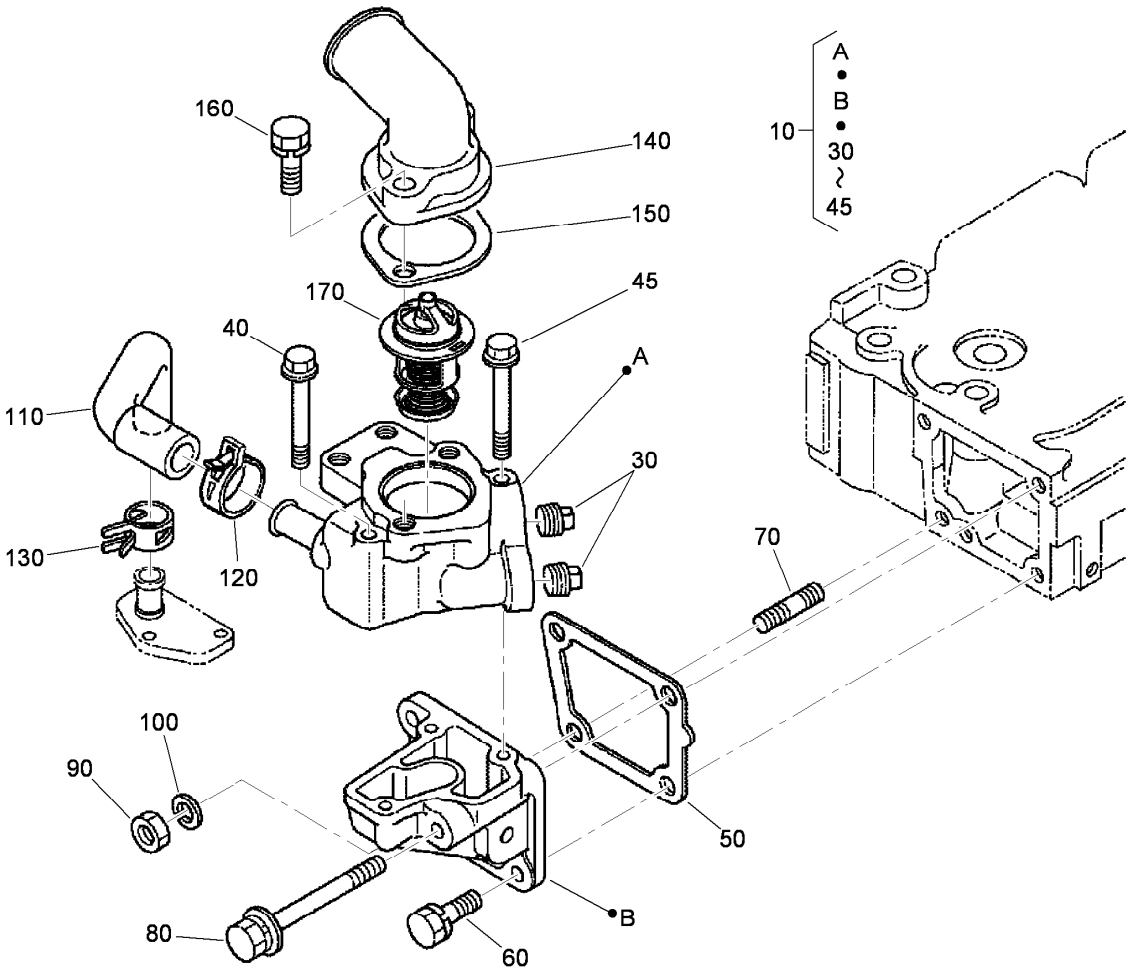
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8603 | 1 | Starter ASM |
| 20 | 98-7735 | 1 | Stud |
| 30 | 98-7736 | 1 | Bolt |
| 40 | 115-8597 | 1 | Nut-Flange |
| 60 | 98-7739 | 1 | Nut |
| 70 | 105-2893 | 1 | Washer-Spring |




# Starter Components Assembly

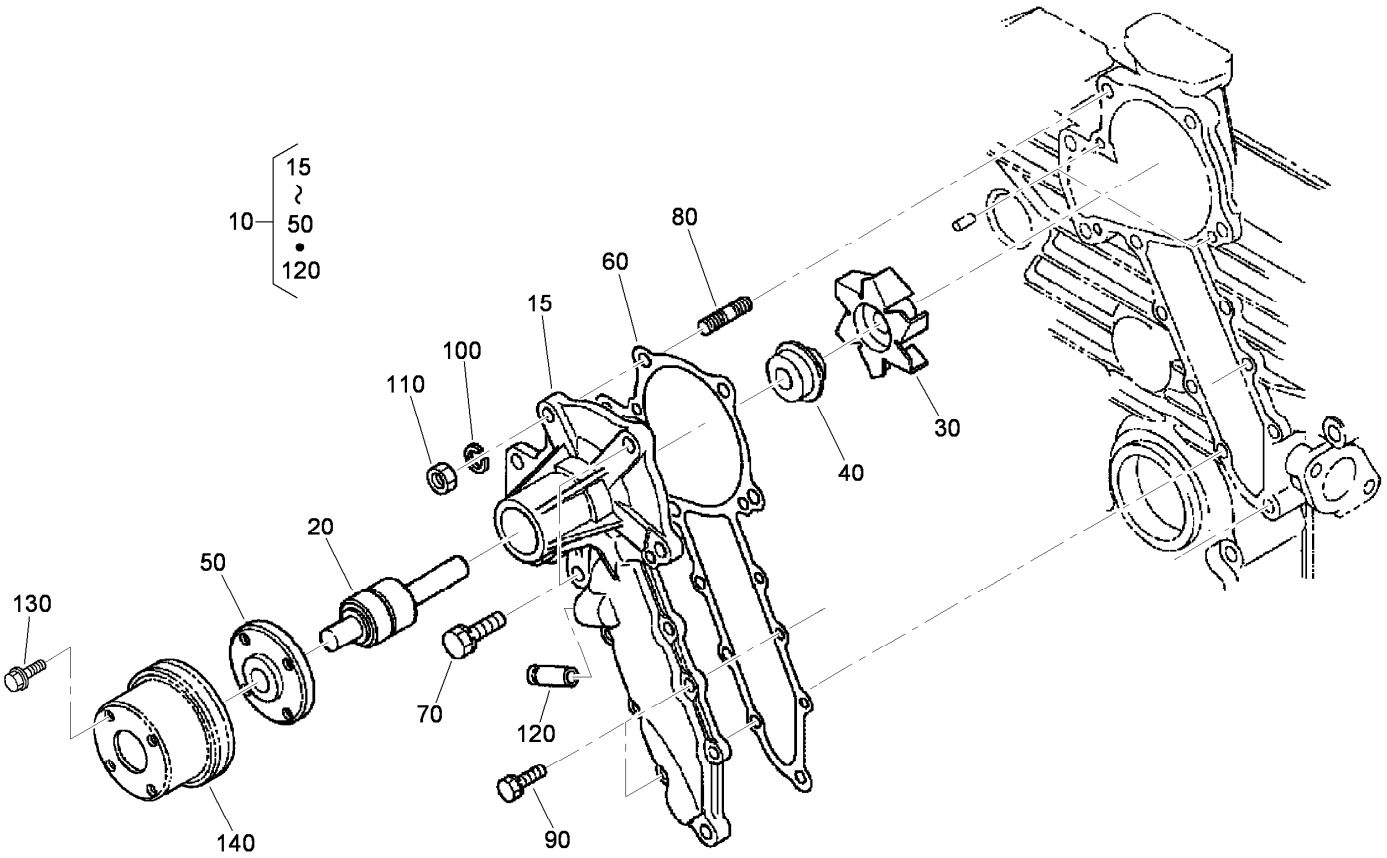
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 10 | 115-8603 | 1 | Starter ASM |
| 20 | 115-8604 | 1 | Yoke |
| 30 | 115-8605 | 1 | Brush Kit |
| 40 | 115-8606 | 1 | Armature |
| 50 | 115-8607 | 1 | Bearing |
| 60 | 98-7744 | 1 | Bearing |
| 70 | 115-8608 | 1 | Clutch-Running, Over |
| 80 | 112-2833 | 1 | Gear-Pinion |
| 90 | 98-9707 | 5 | Roller |
| 100 | 98-7752 | 1 | Retainer |
| 110 | 98-7751 | 1 | Gear |
| 120 | 115-8609 | 1 | Gear |
| 130 | 115-8610 | 1 | Frame-End, Drive |
| 140 | 115-8611 | 1 | Frame-End |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 150 | 115-8612 | 1 | Holder-Brush |
| 160 | 115-8613 | 4 | Spring |
| 165 | 115-8614 | 4 | Spring-Brush |
| 170 | 115-8615 | 1 | Magnetic Switch ASM |
| 180 | 115-8616 | 2 | Screw |
| 190 | 115-8617 | 2 | Screw |
| 200 | 115-8618 | 2 | Bolt-Thru |
| 210 | 98-7755 | 1 | Ball |
| 220 | 98-7754 | 1 | Spring |
| 230 | 98-7757 | 2 | O-Ring |
| 240 | 115-8619 | 1 | Pipe-Drain |
| 250 | 98-7760 | 1 | Nut-Hex |
| 260 | 99-8376 | 1 | Nut-Hex |
| 270 | 98-9711 | 1 | Cord-Solenoid, Stop |



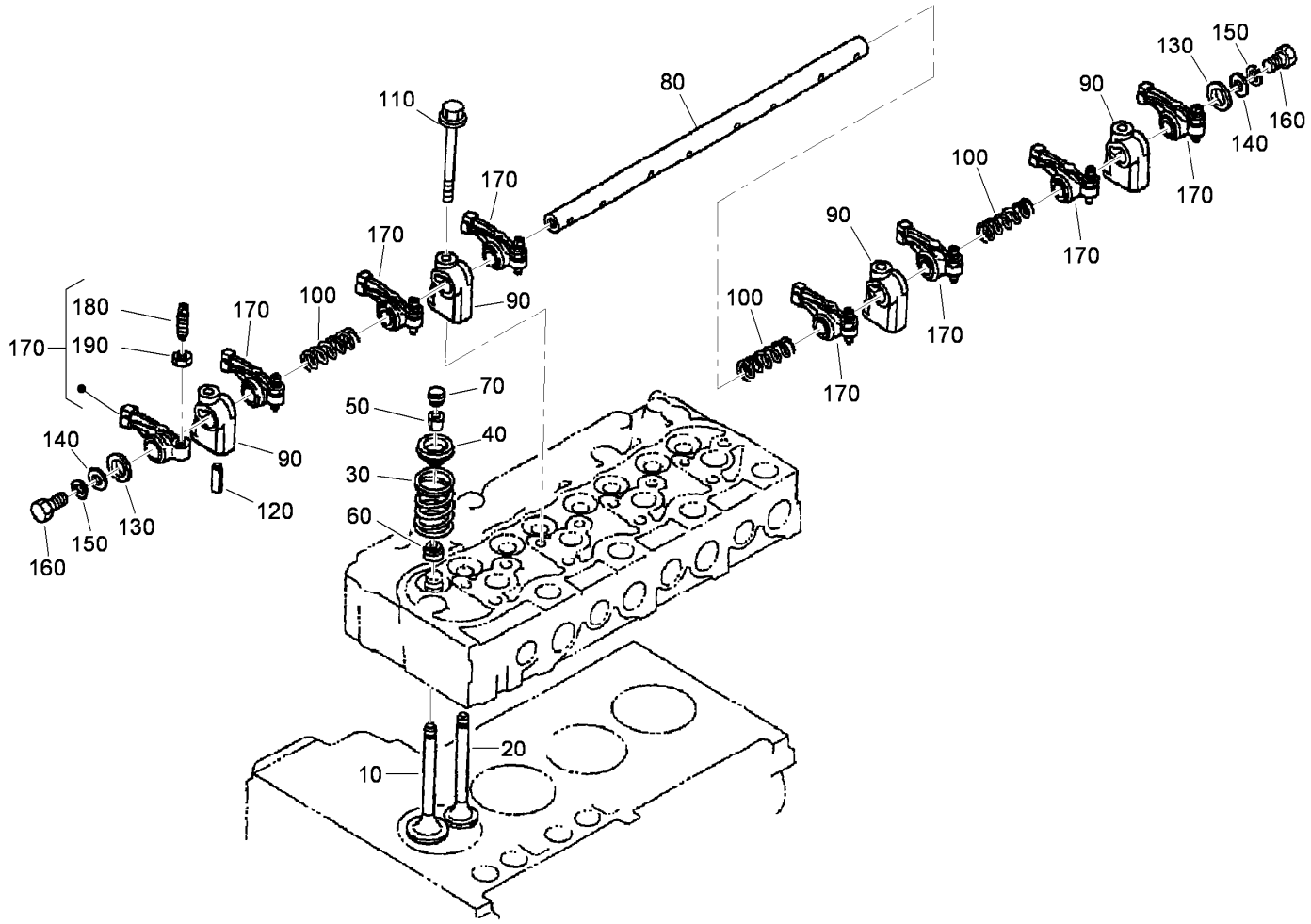

# Water Flange and Thermostat Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 105-4578 | 1 | Water Flange ASM |
| 30 | 105-2874 | 2 | Plug |
| 40 | 105-2875 | 2 | Bolt-Flange |
| 40 | 105-2875 | 3 | Bolt-Flange |
| 45 | 107-0117 | 1 | Bolt-Flange |
| 45 | 107-0117 | 1 | Bolt-Flange |
| 50 | 98-7767 | 1 | Gasket-Flange, Water |
| 60 | 98-9359 | 2 | Bolt |
| 70 | 100-1558 | 1 | Stud |
| 80 | 107-0115 | 1 | Bolt |
| 90 | 98-7534 | 1 | Nut |
| 100 | 105-2893 | 1 | Washer-Spring |
| 110 | 115-8620 | 1 | Pipe-Return, Water |
| 120 | 115-8621 | 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 |



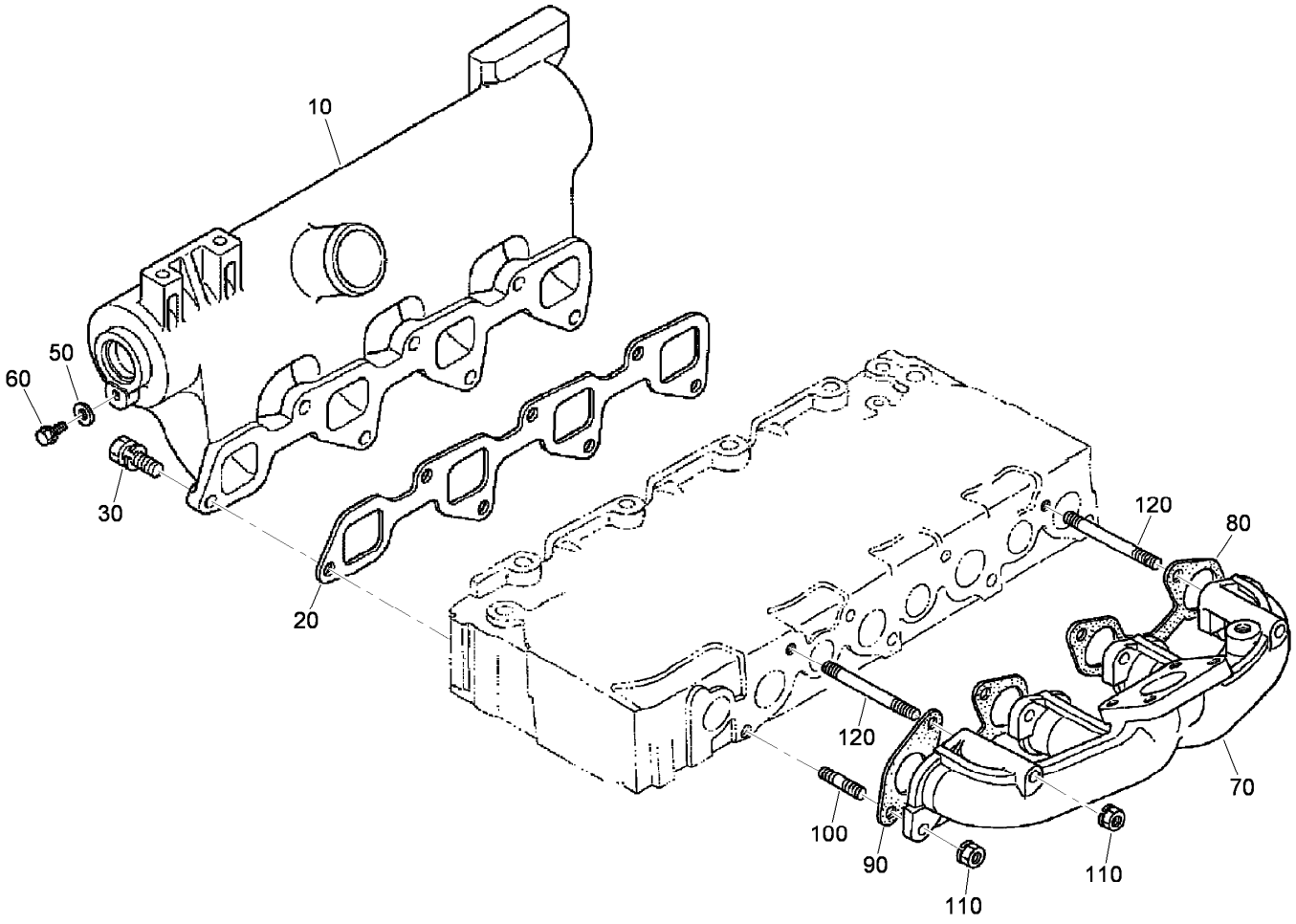

# Water Pump Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8622 | 1 | Water Pump ASM |
| 15 | 115-8623 | 1 | *obs* Body-Pump, Water |
| 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 | 115-8624 | 1 | Gasket-Pump, Water |
| 70 | 98-7439 | 2 | Bolt |
| 80 | 108-7090 | 1 | Stud |
| 90 | 98-7605 | 6 | Bolt |
| 100 | 105-2893 | 1 | Washer-Spring |
| 110 | 98-7534 | 1 | Nut |
| 120 | 98-9580 | 1 | Pipe-Return, Water |
| 130 | 107-4317 | 4 | Bolt-Flange |
| 140 | 115-8625 | 1 | Pulley-Fan |



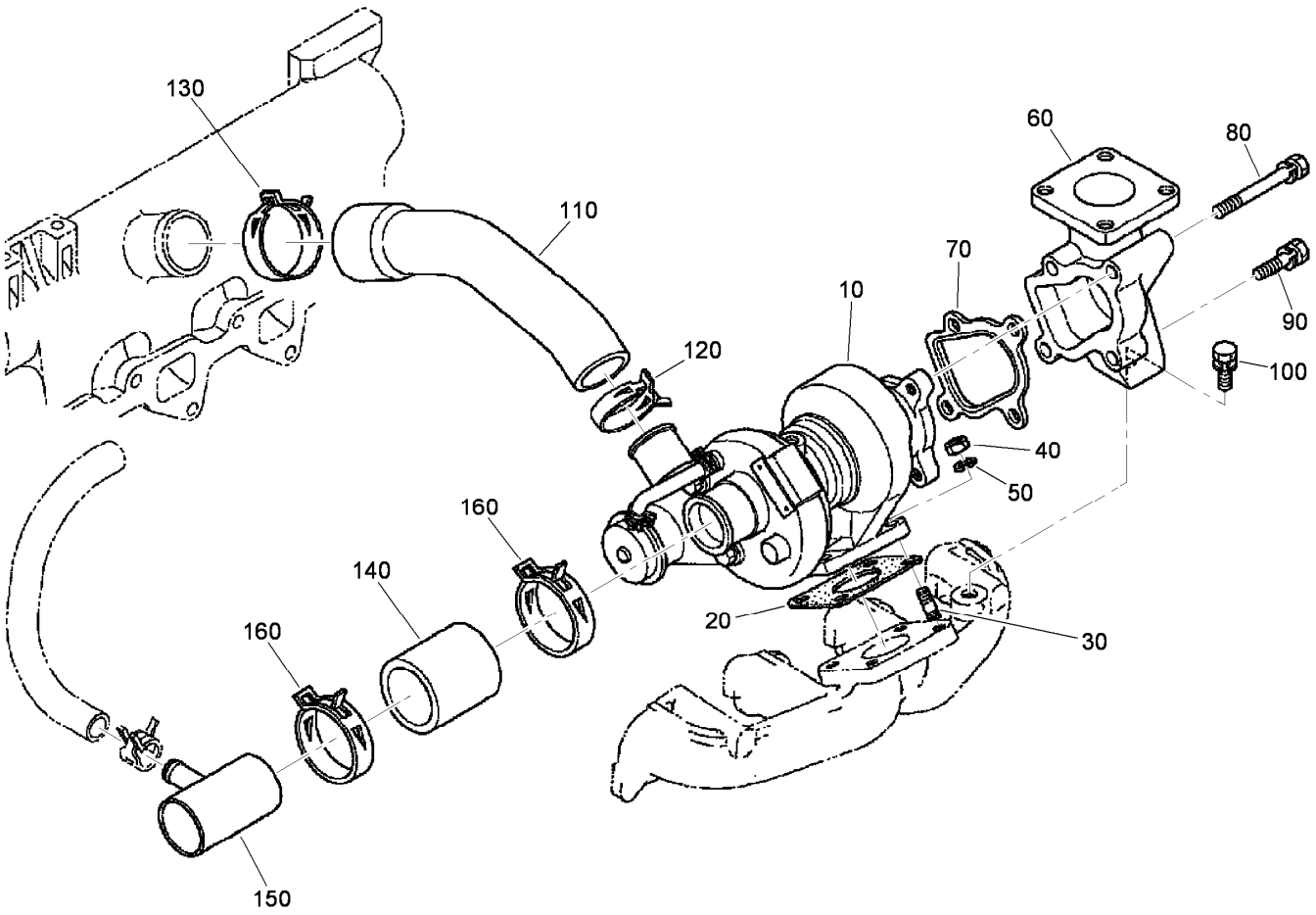

# Valve and Rocker Arm Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8626 | 4 | Valve-Inlet |
| 20 | 114-5099 | 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 |
| 120 | 98-7805 | 1 | Pin-Spring |
| 130 | 98-7806 | 2 | Washer |
| 140 | 98-7660 | 2 | Washer-Plain |
| 150 | 105-2893 | 2 | Washer-Spring |
| 160 | 98-7884 | 2 | Bolt |
| 170 | 98-7809 | 8 | Rocker Arm ASM |
| 180 | 98-7810 | 8 | Screw-Adjusting |
| 190 | 98-7811 | 8 | Nut |



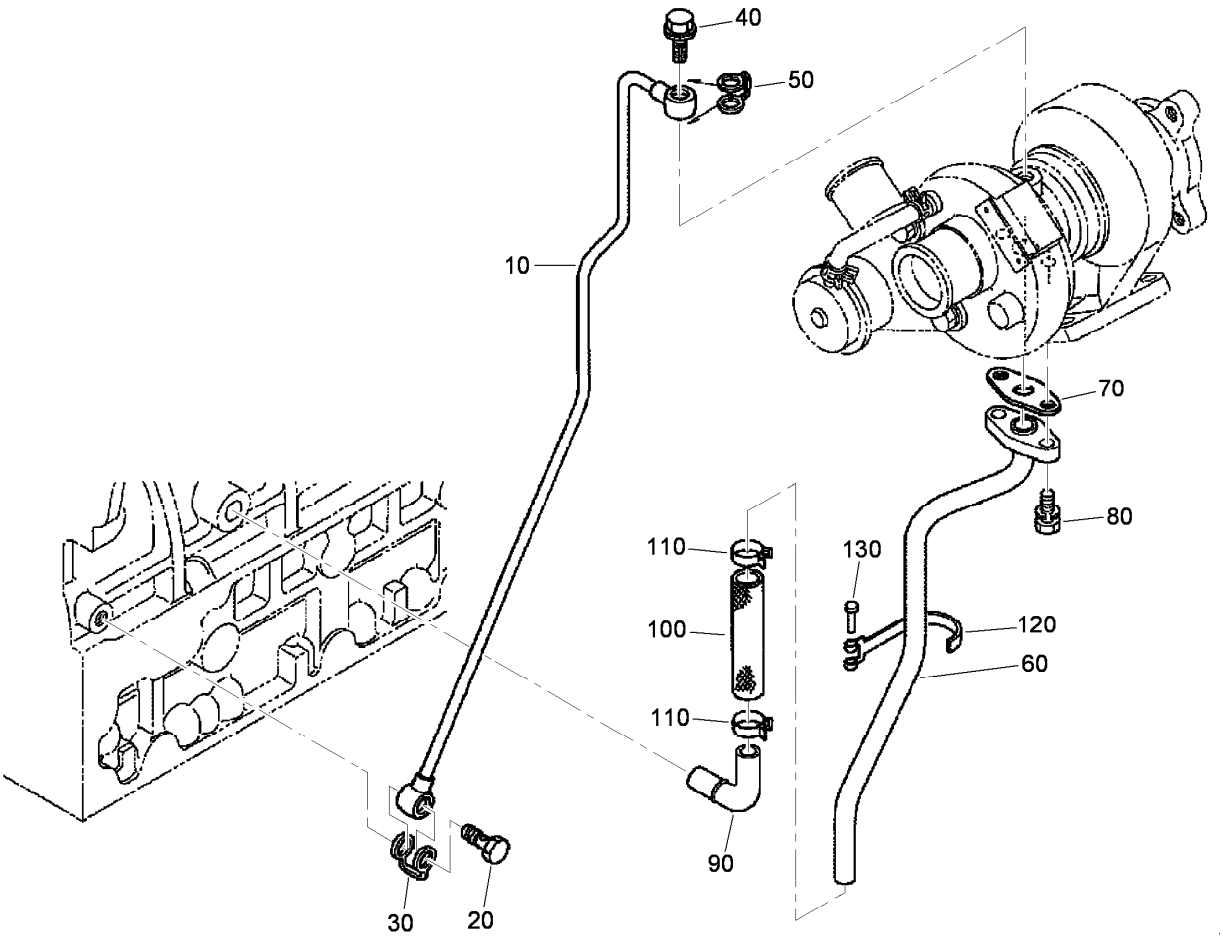

# Inlet and Exhaust Manifold Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8627 | 1 | Manifold-Inlet |
| 20 | 100-9284 | 1 | Gasket-Manifold, Intake |
| 30 | 98-7610 | 1 | Bolt |
| 50 | 98-7654 | 1 | Gasket |
| 60 | 107-4317 | 1 | Bolt-Flange |
| 70 | 108-7092 | 1 | Manifold-Exhaust |
| 80 | 98-7802 | 1 | Gasket |
| 90 | 98-7803 | 1 | Gasket |
| 100 | 100-1558 | 6 | Stud |
| 110 | 100-9288 | 8 | Nut |
| 120 | 100-9289 | 2 | Stud |



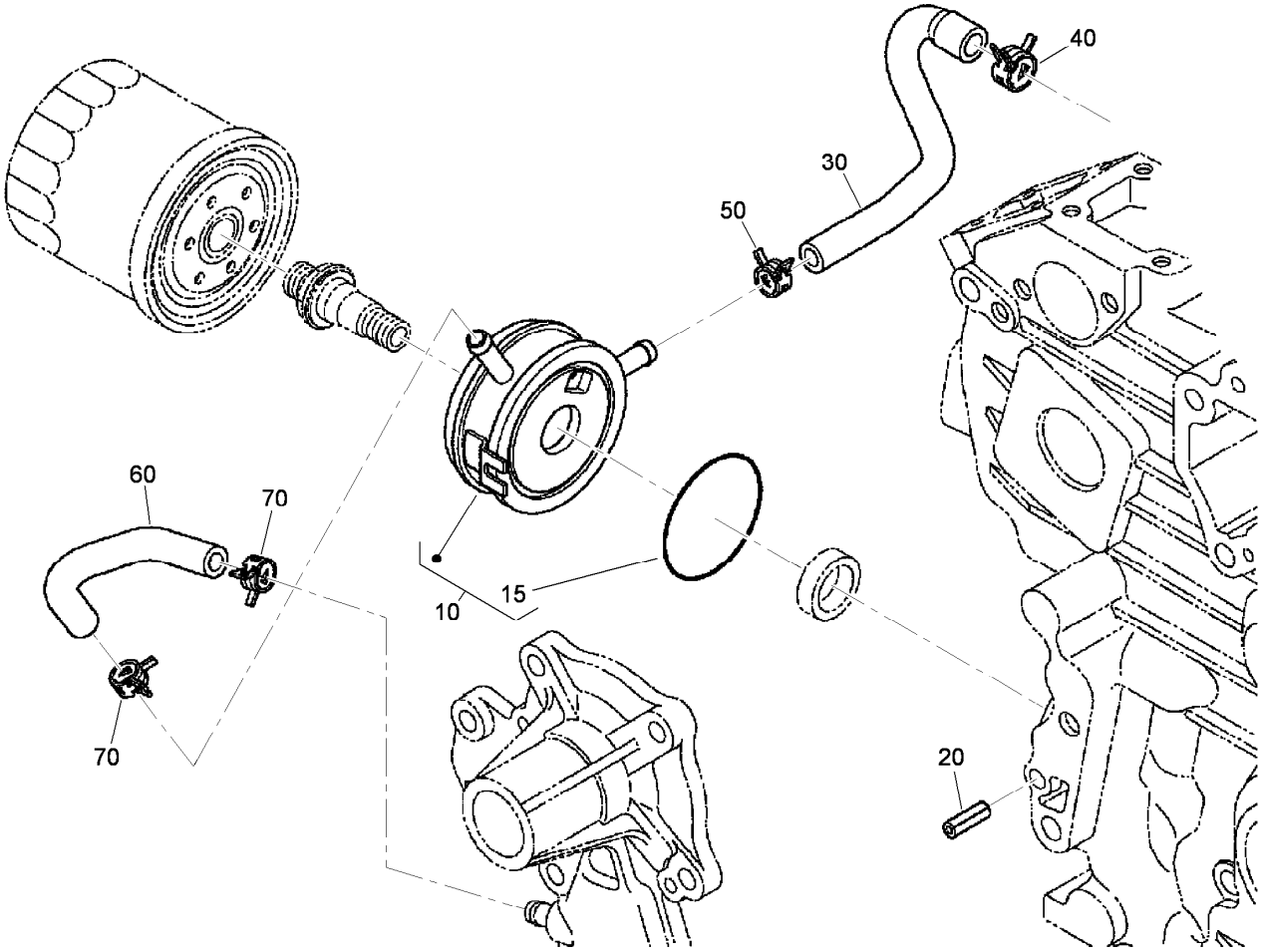

# Turbo Charger Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8628 | 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 |
| 80 | 98-7590 | 2 | Bolt |
| 90 | 98-7777 | 2 | Bolt |
| 100 | 115-8629 | 1 | Bolt |
| 110 | 115-8630 | 1 | Hose-Inlet |
| 120 | 100-9319 | 1 | Band-Pipe |
| 130 | 99-8322 | 1 | Band-Pipe |
| 140 | 115-8631 | 1 | Tube-Inlet, Turbo |
| 150 | 115-8632 | 1 | Pipe-Breather, Inlet |
| 160 | 99-8322 | 2 | Band-Pipe |



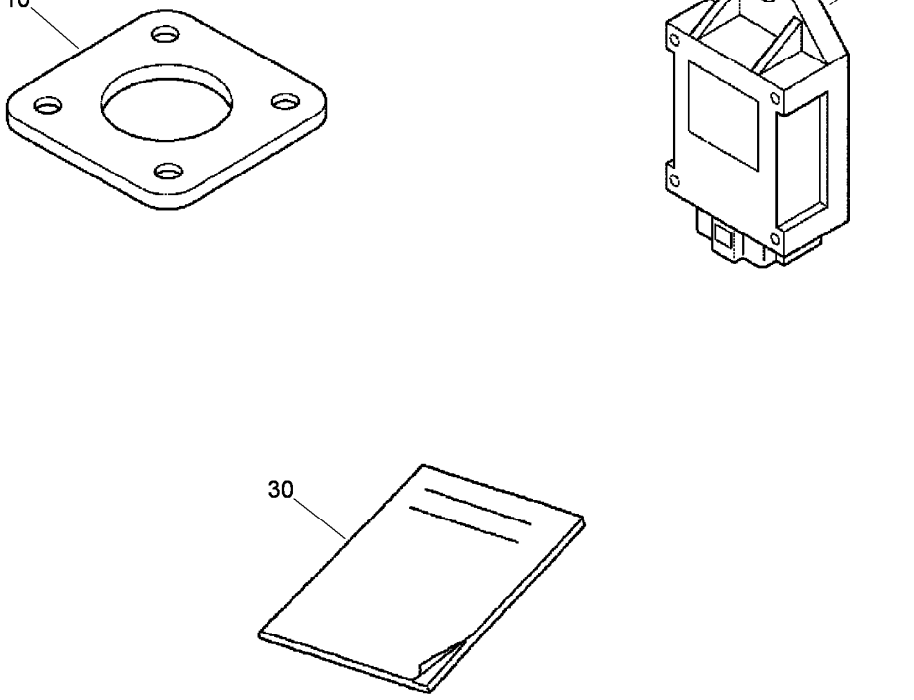

# Oil Pipe (Turbo Charger) Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8633 | 1 | Pipe-Oil |
| 20 | 100-9321 | 1 | Bolt-Joint, Eye |
| 30 | 115-8634 | 1 | Gasket |
| 40 | 115-4126 | 1 | Bolt-Joint, Eye |
| 50 | 115-8635 | 1 | Gasket |
| 60 | 115-8636 | 1 | Pipe-Oil |
| 70 | 108-4422 | 1 | Gasket |
| 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 |



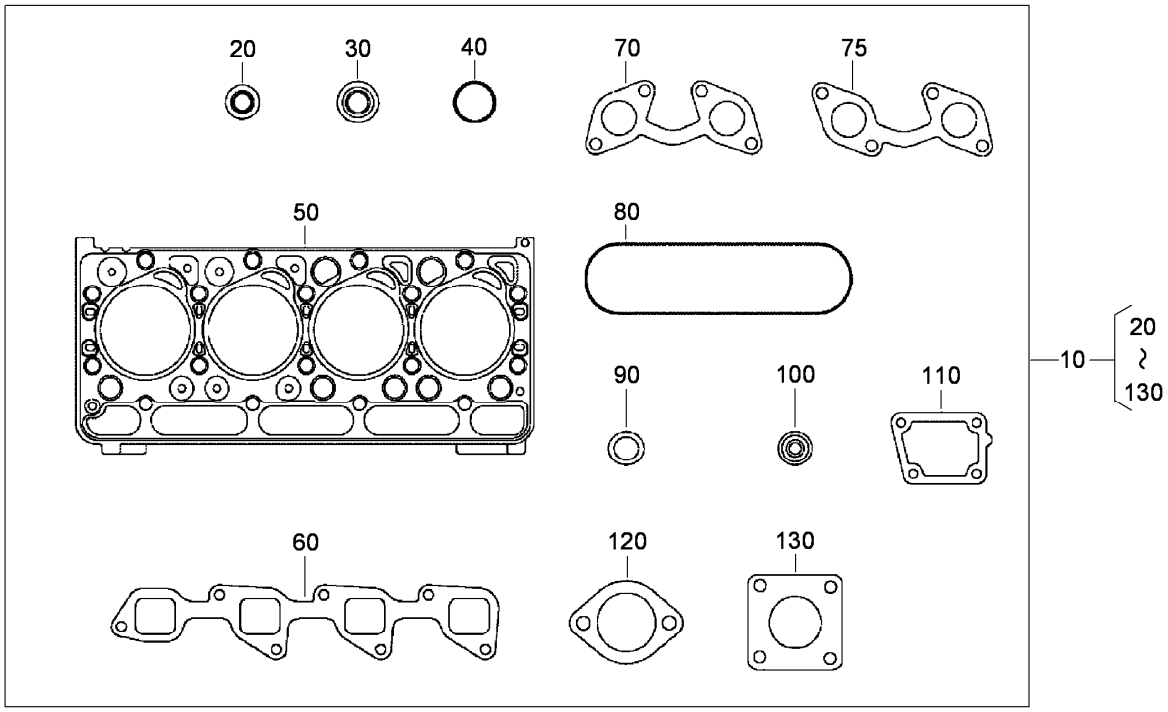

# Oil Cooler Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8637 | 1 | Oil Cooler ASM |
| 15 | 115-8638 | 1 | O-Ring |
| 20 | 115-8639 | 1 | Pin-Spring |
| 30 | 115-8640 | 1 | Hose-Cooler, Oil |
| 40 | 105-2879 | 1 | Clamp-Hose |
| 50 | 98-9579 | 1 | Band-Pipe |
| 60 | 115-8641 | 1 | Hose-Cooler, Oil |
| 70 | 98-9579 | 2 | Band-Pipe |



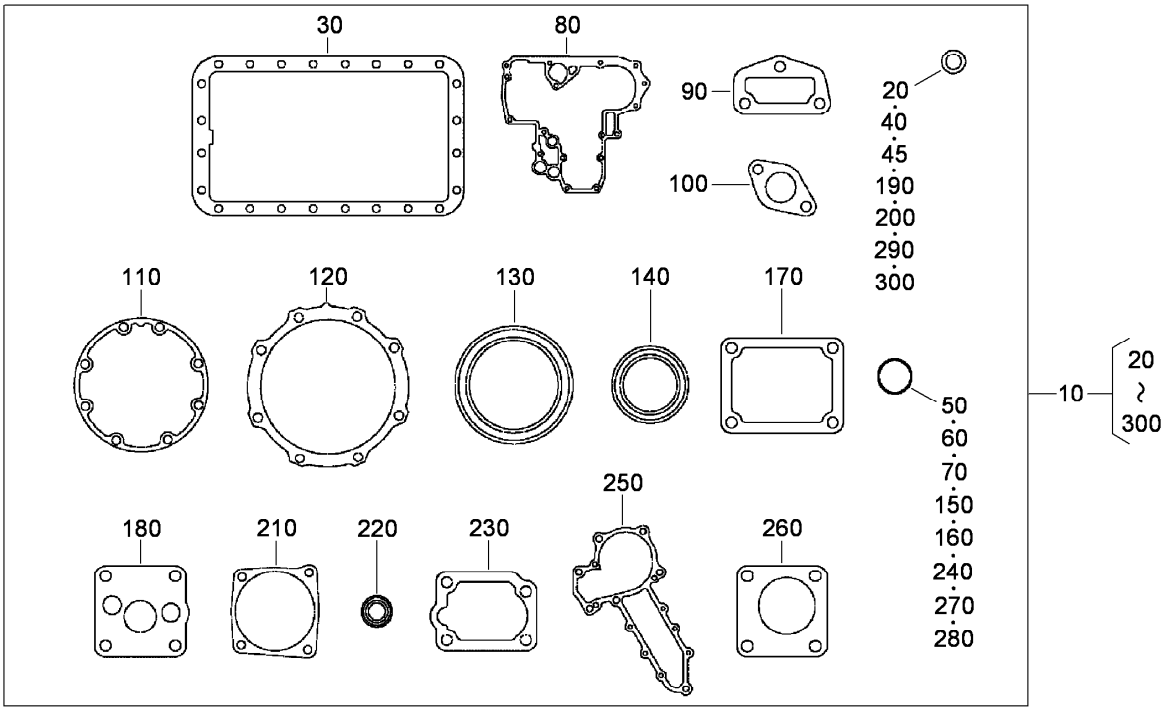

# Muffler Gasket, Glow Controller and Operator Manual

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 100-9333 | 1 | Gasket-Muffler |
| 20 | 98-7611 | 1 | Controller-Glow |
| 30 | 115-8642 | 1 | Manual-Operator |




# Upper Gasket Kit

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 10 | 115-8643 | 1 | Upper Gasket Kit |
| 20 | 98-7763 | 1 | Washer-W/Rubber |
| 30 | 98-7796 | 8 | Seal-Stem, Valve |
| 40 | 108-7064 | 1 | O-Ring |
| 50 | 115-8509 | 1 | Gasket-Head, Cylinder (1.20Mm) |
| 60 | 100-9284 | 1 | Gasket-Manifold, Intake |
| 70 | 98-7803 | 1 | Gasket |
| 75 | 98-7802 | 1 | Gasket |
| 80 | 108-7062 | 1 | Gasket-Cover, Head |
| 90 | 98-7676 | 4 | Gasket |
| 100 | 98-7677 | 4 | Seal-Heat |
| 110 | 98-7767 | 1 | Gasket-Flange, Water |
| 120 | 105-3748 | 1 | Gasket-Thermostat |
| 130 | 100-9333 | 1 | Gasket-Muffler |




# Lower Gasket Kit

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 10 | 115-8644 | 1 | Lower Gasket Kit |
| 20 | 98-7524 | 1 | Gasket |
| 30 | 108-7053 | 1 | Gasket-Pan, Oil |
| 40 | 98-7528 | 1 | O-Ring |
| 45 | 98-9399 | 2 | Gasket |
| 50 | 107-0104 | 1 | O-Ring |
| 60 | 115-8514 | 2 | O-Ring |
| 70 | 107-0106 | 1 | O-Ring |
| 80 | 115-8516 | 1 | Gasket-Case, Gear |
| 90 | 115-8521 | 1 | Gasket-Flange, Return |
| 100 | 115-8645 | 1 | Gasket-Pump, Fuel |
| 110 | 98-7435 | 1 | Gasket-Case, Bearing |
| 120 | 98-7437 | 1 | Gasket-Case Cover, Bearing |
| 130 | 108-7072 | 1 | Seal-Oil |
| 140 | 98-7480 | 1 | Seal-Oil |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 150 | 98-7478 | 1 | O-Ring |
| 160 | 108-7054 | 1 | O-Ring |
| 170 | 98-7604 | 1 | Gasket-Cover, Pump |
| 180 | 115-8648 | 1 | Gasket-Pump, Oil |
| 190 | 98-7654 | 2 | Gasket |
| 200 | 98-7636 | 2 | Gasket |
| 210 | 115-8566 | 1 | Gasket |
| 220 | 115-8576 | 2 | Seal-Oil |
| 230 | 115-8578 | 2 | Gasket-Plate |
| 240 | 110-3762 | 1 | O-Ring |
| 250 | 115-8624 | 1 | Gasket-Pump, Water |
| 260 | 115-8522 | 1 | Gasket-Meter, Hour |
| 270 | 115-8649 | 1 | O-Ring |
| 280 | 115-8570 | 1 | O-Ring |
| 290 | 115-8571 | 1 | Gasket |
| 300 | 98-7428 | 1 | Gasket |

# Attachments and Accessories

## For 30858 Groundsmaster 4700-D Traction Unit

| Product Name | Model/Part |
|---|---|
| Blade-Lift, High | 104-5183 |
| Blade-Angle Sail | 105-9810-03 |
| Blade-Atomic | 107-0235-03 |
| Blade-Combo | 108-9026-03 |
| 90 Amp Alternator Kit | 115-8473 |
| 27in Rotary Cutting Unit | 30834 |
| Leaf Mulching Kit | 30836 |
| Diagnostic Display Box | 85-4750 |




**Count on it.**