



Form No. 3461-653 Rev C

**Count on it.**

# Parts Catalog

## **Groundsmaster® 3500-D Rotary Mower**

Model No. 30807—Serial No. 412850000 and Up



# 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.

# Contents

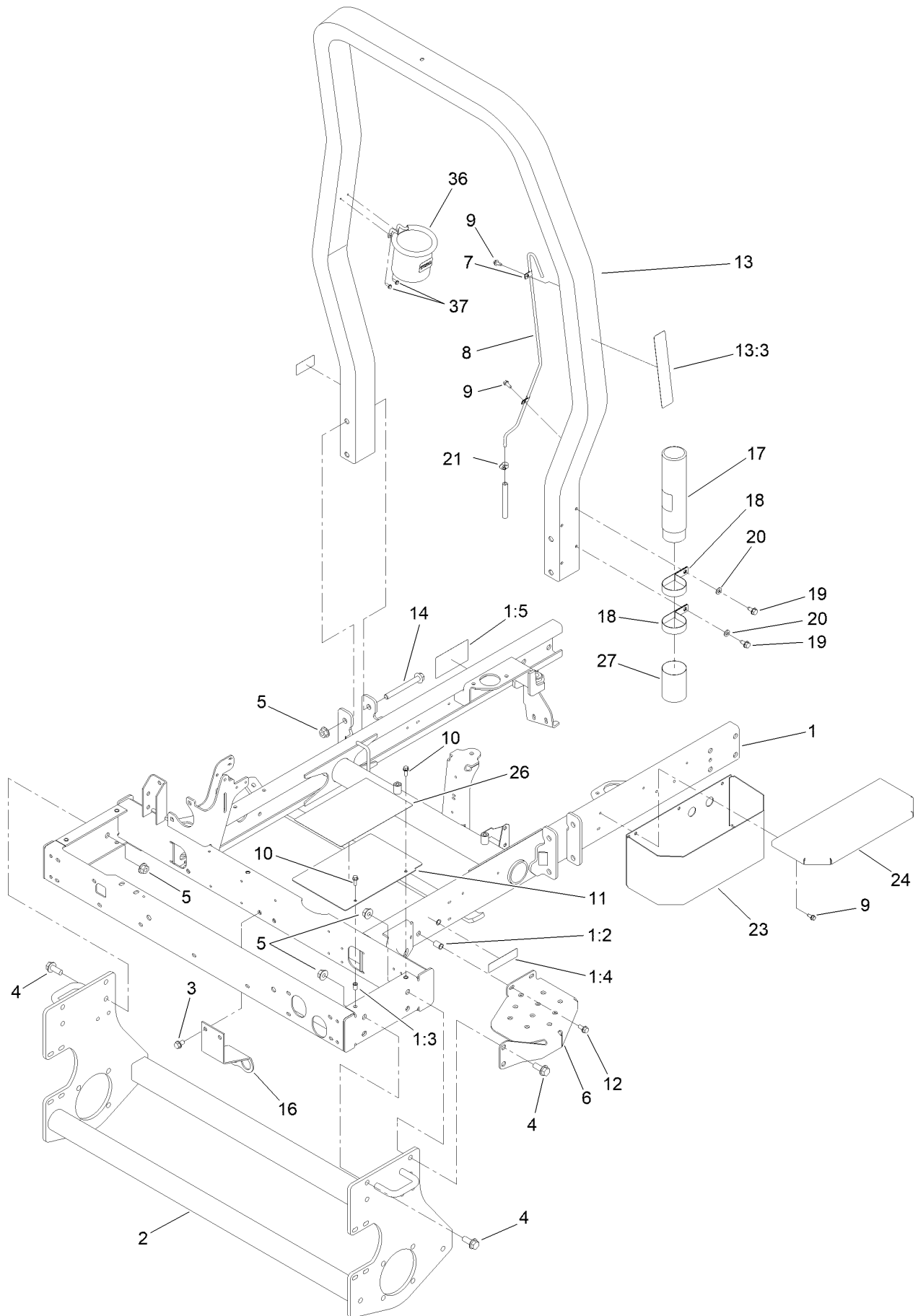
|                                                |     |
|------------------------------------------------|-----|
| Frame and Roll-Over Protection System Assembly | 6   |
| Engine Assembly                                | 8   |
| Air Cleaner and Muffler Assembly               | 10  |
| Air Cleaner Assembly No. 93-2190               | 12  |
| Radiator and Oil Cooler Assembly               | 14  |
| Rear Lift Arm and Carrier Frame Assembly       | 16  |
| Hydraulic Cylinder Assembly No. 112-9916       | 18  |
| Sidewinder Carrier Assembly                    | 20  |
| Carrier Support Assembly                       | 22  |
| Scissor Frame and Link Assembly                | 24  |
| Hydraulic Motor and Foot Guard Assembly        | 26  |
| Gear Motor Assembly No. 117-5141               | 28  |
| Fuel System Assembly                           | 30  |
| Hydraulic Tank Assembly                        | 32  |
| Battery Assembly                               | 34  |
| Seat Assembly                                  | 36  |
| Seat and Track Assembly No. 139-2679           | 38  |
| Seat Assembly No. 139-2700                     | 40  |
| Control Panel Assembly                         | 42  |
| Wire Harness Assembly No. 122-2515             | 44  |
| Parking Brake and Dash Cover Assembly          | 46  |
| 2-Spool Control Valve Assembly                 | 48  |
| 2-Spool Control Valve Assembly No. 95-8581     | 50  |
| Hydraulic Manifold Assembly No. 121-3570       | 52  |
| Steering Column Assembly                       | 54  |
| Steering Valve Assembly No. 121-7856           | 56  |
| Floorplate Assembly                            | 58  |
| Traction Pedal Assembly                        | 60  |
| Hood Assembly                                  | 62  |
| Hood Assembly No. 121-3631                     | 64  |
| Wheel Motor and Brake Assembly                 | 66  |
| Hydraulic Motor Assembly No. 110-8785          | 68  |
| Hydraulic Motor Assembly No. 110-8786          | 70  |
| Brake Assembly No. 104-7705                    | 72  |
| Rear Fork and Tire Assembly                    | 74  |
| Hydraulic Cylinder Assembly No. 121-3653       | 76  |
| Hydraulic Motor Assembly No. 95-8694           | 78  |
| Neutral Arm Assembly                           | 80  |
| Gear Pump and Piston Pump Assembly             | 82  |
| Hydraulic Pump Assembly No. 104-4890           | 84  |
| Hydraulic Gear Pump Assembly No. 108-9036      | 86  |
| Traction Hydraulic Assembly                    | 88  |
| Scissor Hydraulic Assembly                     | 90  |
| Steering Hydraulic Assembly                    | 92  |
| Sidewinder Hydraulic Assembly                  | 94  |
| Hydraulic Mow Circuit Plumbing Assembly        | 96  |
| Roller and Carrier Frame Assembly              | 98  |
| Rear Roller Assembly No. 137-6141              | 100 |
| Height-of-Cut Bracket Assembly                 | 102 |
| Chamber, Blade and Spindle Assembly            | 104 |
| Spindle Assembly No. 121-3666                  | 106 |
| Crankcase Assembly                             | 108 |
| Oil Pan and Dipstick Assembly                  | 109 |
| Cylinder Head Assembly                         | 110 |

## Contents (continued)

|                                                   |     |
|---------------------------------------------------|-----|
| Gear Case and Oil Filter Cartridge Assembly ..... | 111 |
| Cylinder Head Cover Assembly .....                | 112 |
| Main Bearing Case Assembly .....                  | 113 |
| Camshaft and Idle Gear Shaft Assembly .....       | 114 |
| Piston and Crankshaft Assembly .....              | 115 |
| Fuel Camshaft and Governor Shaft Assembly .....   | 116 |
| Idle Apparatus and Stop Solenoid Assembly .....   | 117 |
| Solenoid Assembly .....                           | 118 |
| Injection Pump Assembly .....                     | 119 |
| Governor Assembly .....                           | 120 |
| Speed Control Plate Assembly .....                | 121 |
| Nozzle Holder and Glow Plug Assembly .....        | 122 |
| Nozzle Holder Assembly .....                      | 123 |
| Alternator, Pulley and Fan Assembly .....         | 124 |
| Alternator Assembly No. 131-6557 .....            | 125 |
| Starter and Flywheel Assembly .....               | 126 |
| Starter Component Assembly .....                  | 127 |
| Water Flange and Thermostat Assembly .....        | 128 |
| Water Pump Assembly .....                         | 129 |
| Valve and Rocker Arm Assembly .....               | 130 |
| Inlet and Exhaust Manifold Assembly .....         | 131 |
| Miscellaneous Engine Parts .....                  | 132 |
| Attachments and Accessories .....                 | 133 |



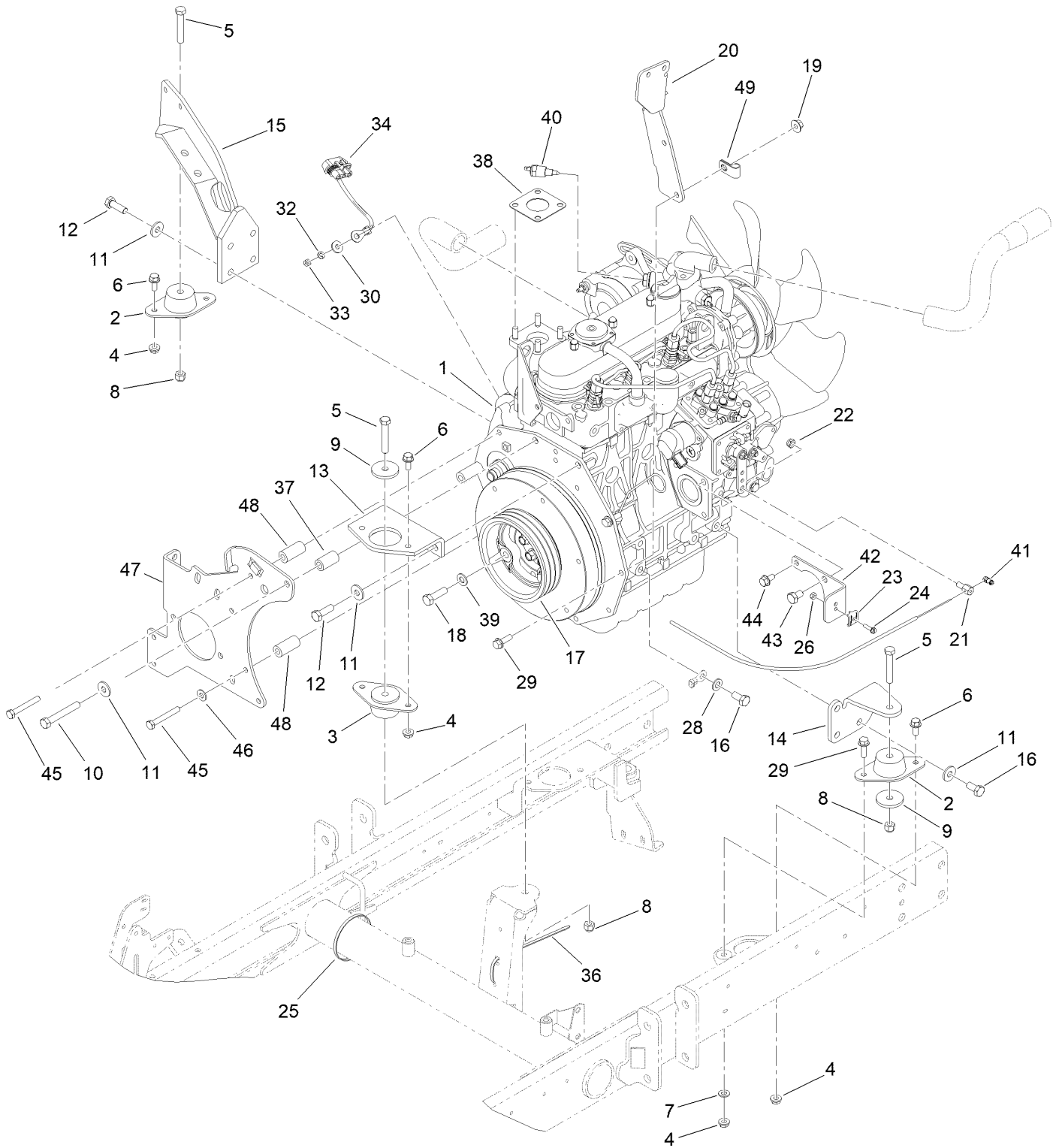
# Frame and Roll-Over Protection System Assembly



# Frame and Roll-Over Protection System Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>     | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>        |
|-------------|--------------------|-------------|------------------------|-------------|--------------------|-------------|---------------------------|
| 1           | 121-3635           | 1           | Frame                  | 13          | 127-8493           | 1           | ROPS ASM                  |
| 1:2         | 32148-8            | 2           | Nut-Clinch             | 13:3        | 136-3702           | 1           | Decal-Safety, ROPS        |
| 1:3         | 32148-6            | 4           | Nut-Clinch             | 14          | 117-3176           | 4           | Screw-HHF                 |
| 1:4         | 133-8062           | 1           | Decal-Arrestor, Spark  | 16          | 115-3417-0P        | 1           | Bracket-Bulkhead, Scissor |
| 1:5         | 117-3270           | 1           | Decal-Danger           | 17          | 104-7050           | 1           | Tube-Manual               |
| 2           | 95-8568-03         | 1           | Frame-Lower            | 18          | 2412-133           | 2           | Clamp-R                   |
| 3           | 32144-15           | 2           | Screw-HHFTF            | 19          | 32144-70           | 2           | Screw-HWHTF               |
| 4           | 3234-38            | 8           | Screw-HHF              | 20          | 3256-23            | 2           | Washer-Plain              |
| 5           | 32128-49           | 12          | Nut-HHF                | 21          | 2412-108           | 1           | Clamp-Worm                |
| 6           | 99-3375-03         | 1           | Step                   | 23          | 104-4634-03        | 1           | Toolbox                   |
| 7           | 2412-72            | 2           | Clip-Closed, Insulated | 24          | 104-4633-03        | 1           | Cover-Toolbox             |
| 8           | 95-8615            | 1           | Tube-Breather          | 26          | 121-3623           | 1           | Decal-Danger              |
| 9           | 32144-10           | 5           | Screw-HWH              | 27          | 104-7048           | 1           | Cap-Housing               |
| 10          | 3234-4             | 2           | Screw-HHF              | 36          | 117-2378           | 1           | Holder-Bag                |
| 11          | 104-0468-01        | 1           | Cover-Frame            | 37          | 32144-1            | 2           | Screw-Taptite             |
| 12          | 3234-5             | 2           | Screw-HHF              |             |                    |             |                           |

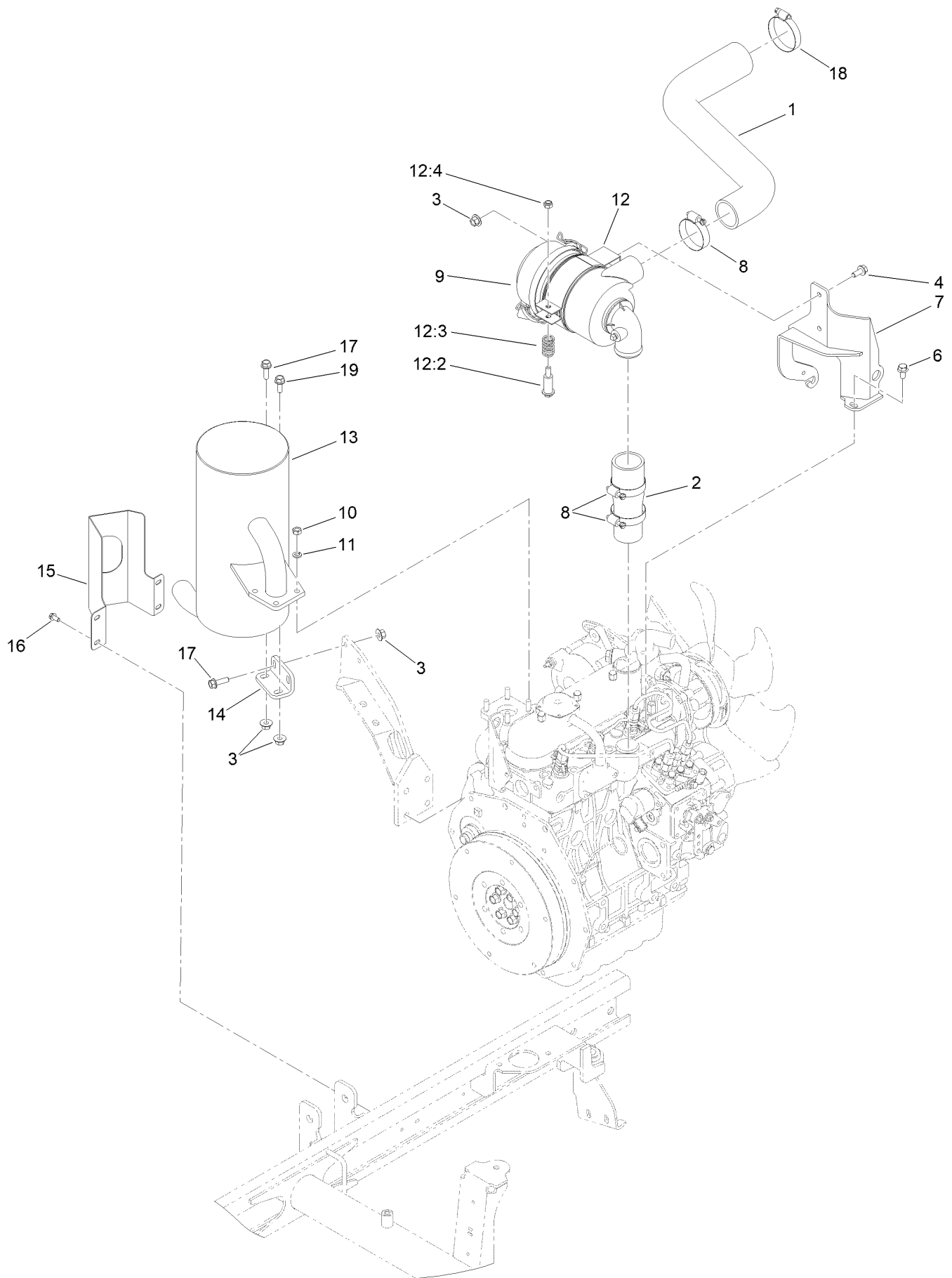
# Engine Assembly



## Engine Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>         | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>         |
|-------------|--------------------|-------------|----------------------------|-------------|--------------------|-------------|----------------------------|
| 1           | 138-6908           | 1           | Engine-Kubota, D1105       | 24          | 32105-13           | 1           | Screw-HWH                  |
| 2           | 121-9076           | 2           | Mount-Engine               | 25          | 3290-379           | 2           | Tie-Cable                  |
| 3           | 93-5265            | 1           | Mount-Engine               | 26          | 3296-2             | 1           | Nut-Lock, NI               |
| 4           | 32128-20           | 6           | Nut-HF                     | 28          | 33095-00           | 1           | Washer-Flat                |
| 5           | 323-11             | 3           | Screw-HH                   | 29          | 3234-17            | 3           | Screw-HHF                  |
| 6           | 3234-5             | 5           | Screw-HHF                  | 30          | 3256-78            | 1           | Washer-Flat                |
| 7           | 120-9683           | 1           | Washer-Plain               | 32          | 43-5930            | 1           | Washer-Lock, Spring        |
| 8           | 3296-39            | 3           | Nut-Lock, NI               | 33          | 48-7890            | 1           | Nut-Hex                    |
| 9           | 80-8560            | 3           | Washer-Hardened            | 34          | 99-3441            | 1           | Harness-Wire, Fusible Link |
| 10          | 42-9370            | 1           | Screw-HH                   | 36          | 3290-378           | 14          | Tie-Cable                  |
| 11          | 80-6990            | 9           | Washer-Hardened            | 37          | 95-8736            | 1           | Spacer                     |
| 12          | 95-8812            | 5           | Screw-HH                   | 38          | 98-9611            | 1           | Gasket                     |
| 13          | 99-3618-0P         | 1           | Mount-Engine, Front        | 39          | 3256-24            | 3           | Washer-Plain               |
| 14          | 95-8937-0P         | 1           | Mount-Engine, LH           | 40          | 106-7772           | 1           | Thermoswitch               |
| 15          | 100-4838-0P        | 1           | Mount-Engine               | 41          | 112-9919           | 1           | Stop-Cable, Throttle       |
| 16          | 63-7790            | 4           | Screw-Cap                  | 42          | 110-9009-0P        | 1           | Bracket-Cable, Throttle    |
| 17          | 99-3626            | 1           | Pulley-3V                  | 43          | 70-8470            | 1           | Screw-HH                   |
| 18          | 56-2140            | 3           | Screw-HH                   | 44          | 33104-016          | 1           | Screw-HHF                  |
| 19          | 32128-44           | 2           | Nut                        | 45          | 33114-060          | 4           | Screw-HH                   |
| 20          | 115-3487-0P        | 1           | Bracket-Mount, Fuel Filter | 46          | 87-8640            | 3           | Washer-Flat                |
| 21          | 98-9311            | 1           | Swivel-Throttle            | 47          | 120-3375-0P        | 1           | Plate-Mount, Pump          |
| 22          | 3296-20            | 1           | Nut-Lock, NI               | 48          | 95-8941            | 4           | Spacer-Mount, Pump         |
| 23          | 81-1690            | 1           | Clamp-Cable                | 49          | 2412-10            | 1           | Clamp-R                    |

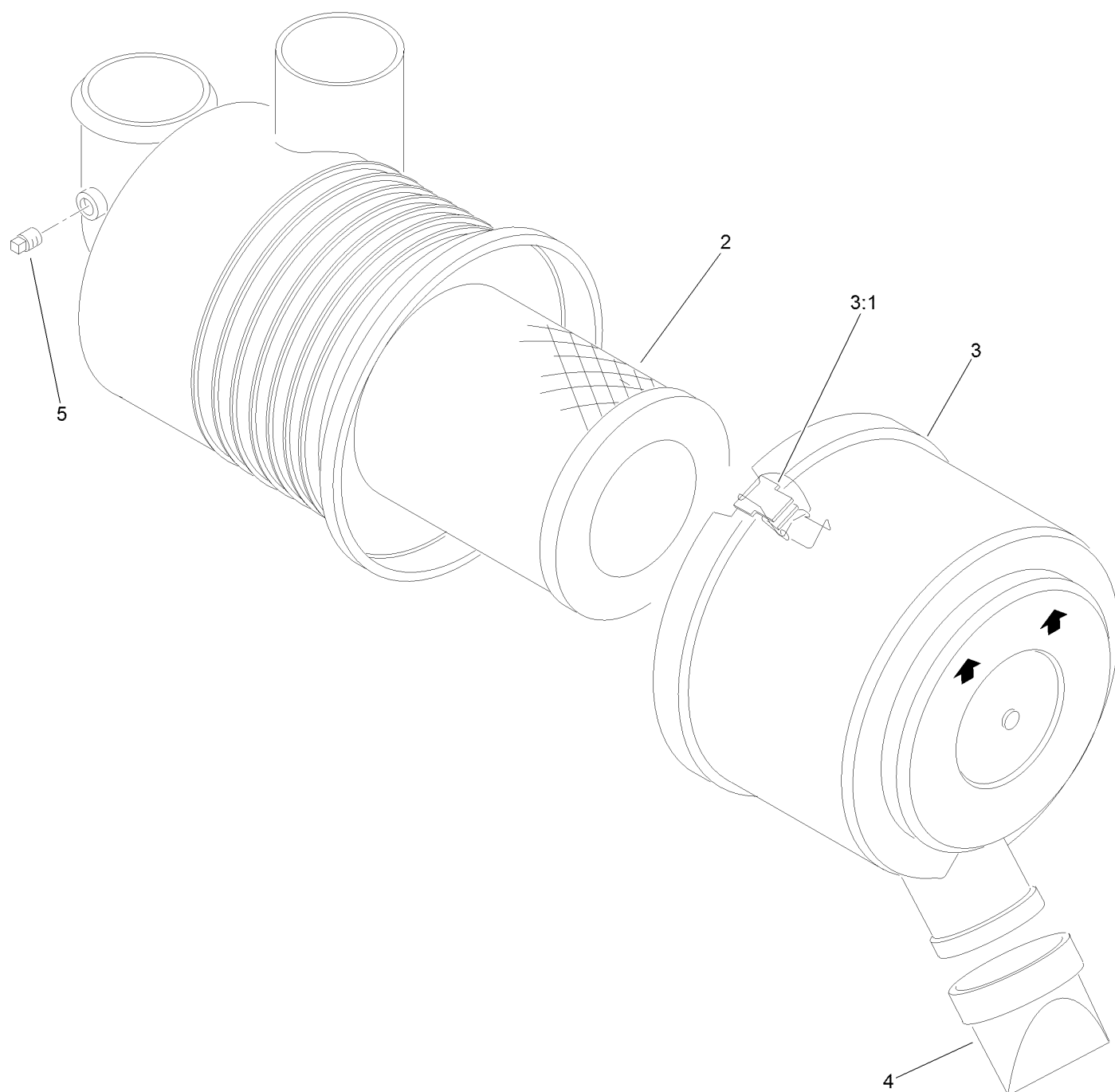
# Air Cleaner and Muffler Assembly



## Air Cleaner and Muffler Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>               | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|----------------------------------|-------------|--------------------|-------------|--------------------|
| 1           | 120-3354           | 1           | Hose-Air Inlet, Upper            | 12:2        | 94-3653            | 1           | Bolt               |
| 2           | 95-8947            | 1           | Hose-Air Inlet, Lower            | 12:3        | 94-3654            | 1           | Spring             |
| 3           | 32128-44           | 6           | Nut                              | 12:4        | 33024-00           | 1           | Nut-Lock, NI       |
| 4           | 3234-5             | 2           | Screw-HHF                        | 13          | 139-6013           | 1           | Muffler            |
| 6           | 33104-016          | 3           | Screw-HHF                        | 14          | 95-8943-0P         | 1           | Bracket-Muffler    |
| 7           | 136-3154-0P        | 1           | Bracket-Cleaner, Air             | 15          | 140-7428-03        | 1           | Guard-Exhaust      |
| 8           | 2412-92            | 3           | Clamp-Hose                       | 16          | 32144-4            | 4           | Screw-HWH          |
| 9           | 93-2190            | 1           | Air Cleaner ASM                  | 17          | 3234-17            | 3           | Screw-HHF          |
| 10          | 33014-00           | 4           | Nut-Hex                          | 18          | 2412-130           | 1           | Clamp-Hose         |
| 11          | 3253-4             | 4           | Washer-Lock                      | 19          | 3234-5             | 1           | Screw-HHF          |
| 12          | 93-2191            | 1           | Air Cleaner Mounting Band<br>ASM |             |                    |             |                    |

# Air Cleaner Assembly No. 93-2190

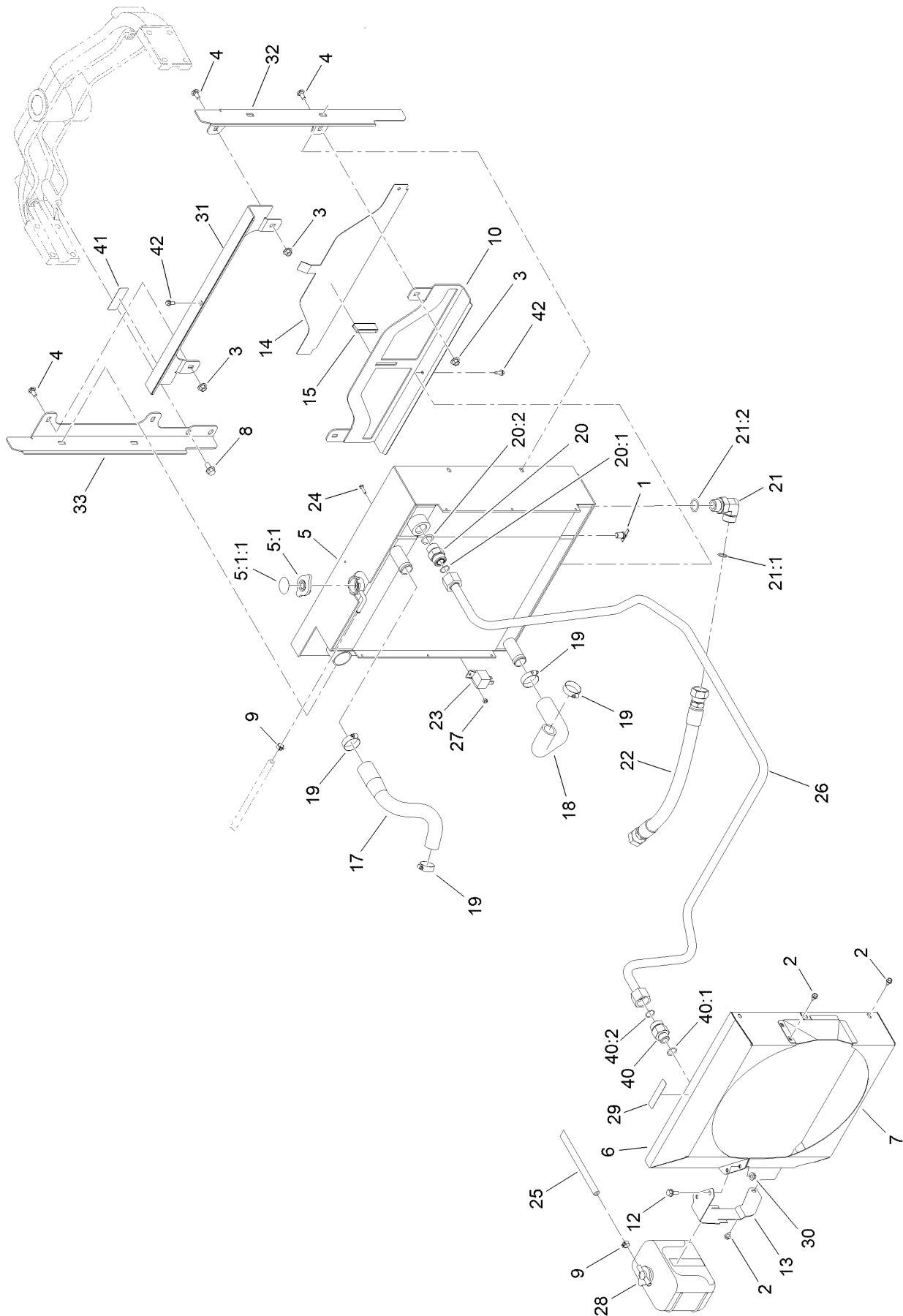


## Air Cleaner Assembly No. 93-2190 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>   |
|-------------|--------------------|-------------|----------------------|
| 2           | 108-3811           | 1           | Filter-Air V-Twin HD |
| 3           | 94-3652            | 1           | Cover ASM            |
| 3:1         | 1-643283           | 2           | Latch-Cleaner, Air   |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 4           | 87-9400            | 1           | Valve-Vacuator     |
| 5           | 285-17             | 1           | Plug-Pipe          |

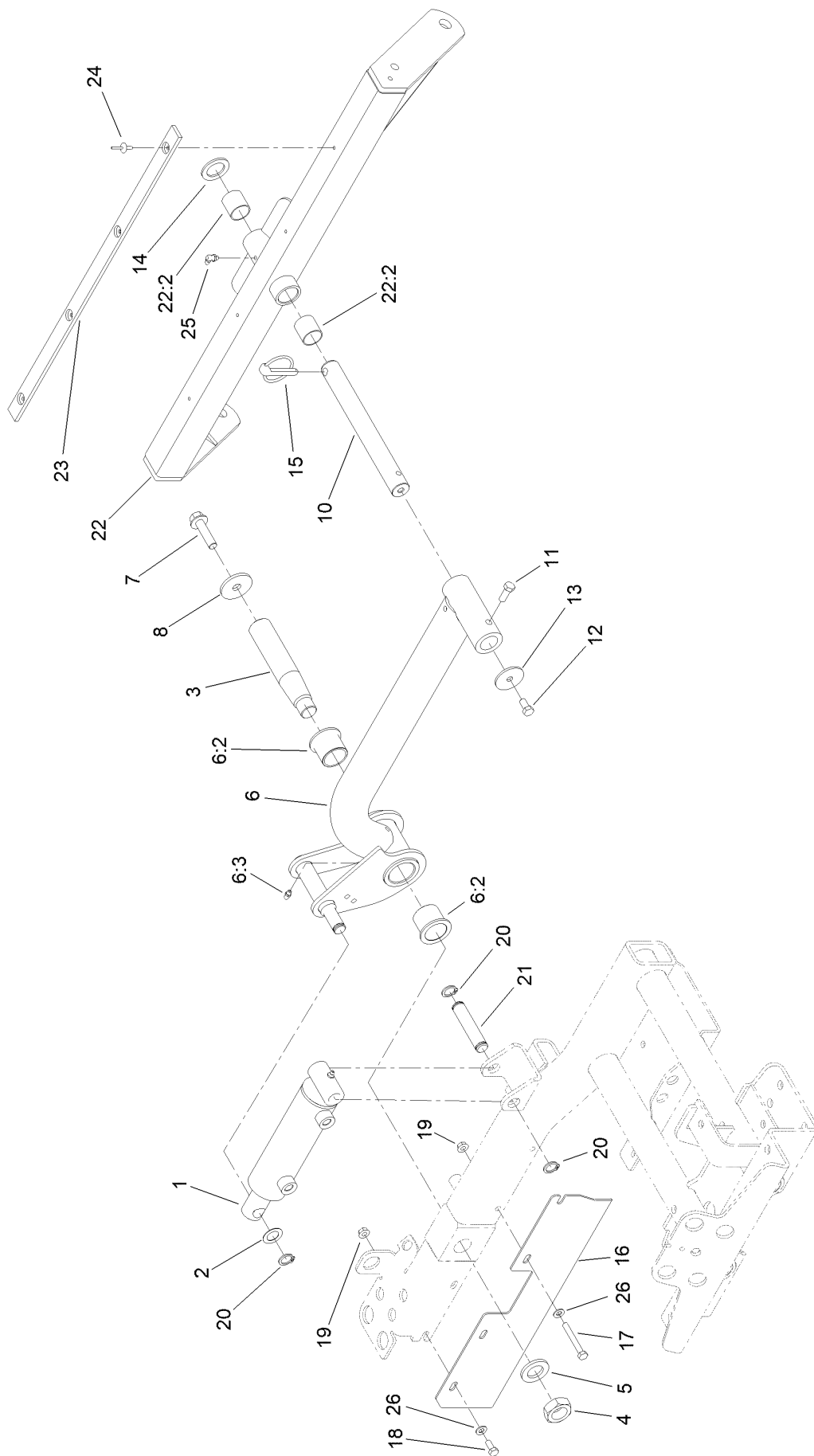
# Radiator and Oil Cooler Assembly



## Radiator and Oil Cooler Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>             | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>          |
|-------------|--------------------|-------------|--------------------------------|-------------|--------------------|-------------|-----------------------------|
| 1           | 304-46             | 1           | Draincock                      | 20:2        | 237-81             | 1           | O-Ring                      |
| 2           | 32104-116          | 8           | Screw-HWHTF                    | 21          | 340-142            | 1           | Fitting-Elbow, 90 DEG       |
| 3           | 32128-44           | 8           | Nut                            | 21:1        | 237-58             | 1           | O-Ring                      |
| 4           | 3230-1             | 8           | Bolt-CARR                      | 21:2        | 237-81             | 1           | O-Ring                      |
| 5           | 119-2028           | 1           | Radiator And Oil Cooler<br>ASM | 22          | 92-7536            | 1           | Hose-HYD                    |
| 5:1         | 115-7766           | 1           | Cap-Radiator                   | 23          | 99-7435            | 1           | Relay                       |
| 5:1:1       | 106-6755           | 1           | Decal-Cap, Radiator            | 24          | 32105-13           | 1           | Screw-HWH                   |
| 6           | 121-3556-0P        | 1           | Shroud-Fan, Upper              | 25          | 109-0274           | 1           | Hose-Fuel                   |
| 7           | 121-3552-0P        | 1           | Shroud-Fan, Lower              | 26          | 121-3609           | 1           | Tube-HYD                    |
| 8           | 3234-1             | 4           | Screw-HHF                      | 27          | 3296-2             | 1           | Nut-Lock, NI                |
| 9           | 92-2379            | 2           | Clamp-Hose                     | 28          | 108-0638           | 1           | Bottle-Overflow             |
| 10          | 120-3530-0P        | 1           | Bracket-Radiator, Bottom       | 29          | 93-6681            | 1           | Decal-Warning, Fan          |
| 12          | 3234-5             | 2           | Screw-HHF                      | 30          | 32128-20           | 2           | Nut-HF                      |
| 13          | 121-3557-0P        | 1           | Bracket-Reservoir              | 31          | 120-3529-0P        | 1           | Bracket-Radiator, Top       |
| 14          | 95-8702-0P         | 1           | Shield-Radiator, Lower         | 32          | 120-3531-0P        | 1           | Bracket-Radiator, LH        |
| 15          | 99-3497            | 1           | Magnet                         | 33          | 120-3532-0P        | 1           | Bracket-Radiator, RH        |
| 17          | 121-3558           | 1           | Hose-Radiator, Upper           | 40          | 340-66             | 1           | Fitting-Straight            |
| 18          | 120-3399           | 1           | Hose-Radiator, Lower           | 40:1        | 237-80             | 1           | O-Ring                      |
| 19          | 2412-34            | 4           | Clamp-Hose                     | 40:2        | 237-58             | 1           | O-Ring                      |
| 20          | 340-9              | 1           | Fitting-STR                    | 41          | 125-6688           | 1           | Decal-Danger, Starter Fluid |
| 20:1        | 237-58             | 1           | O-Ring                         | 42          | 32144-10           | 2           | Screw-HWH                   |

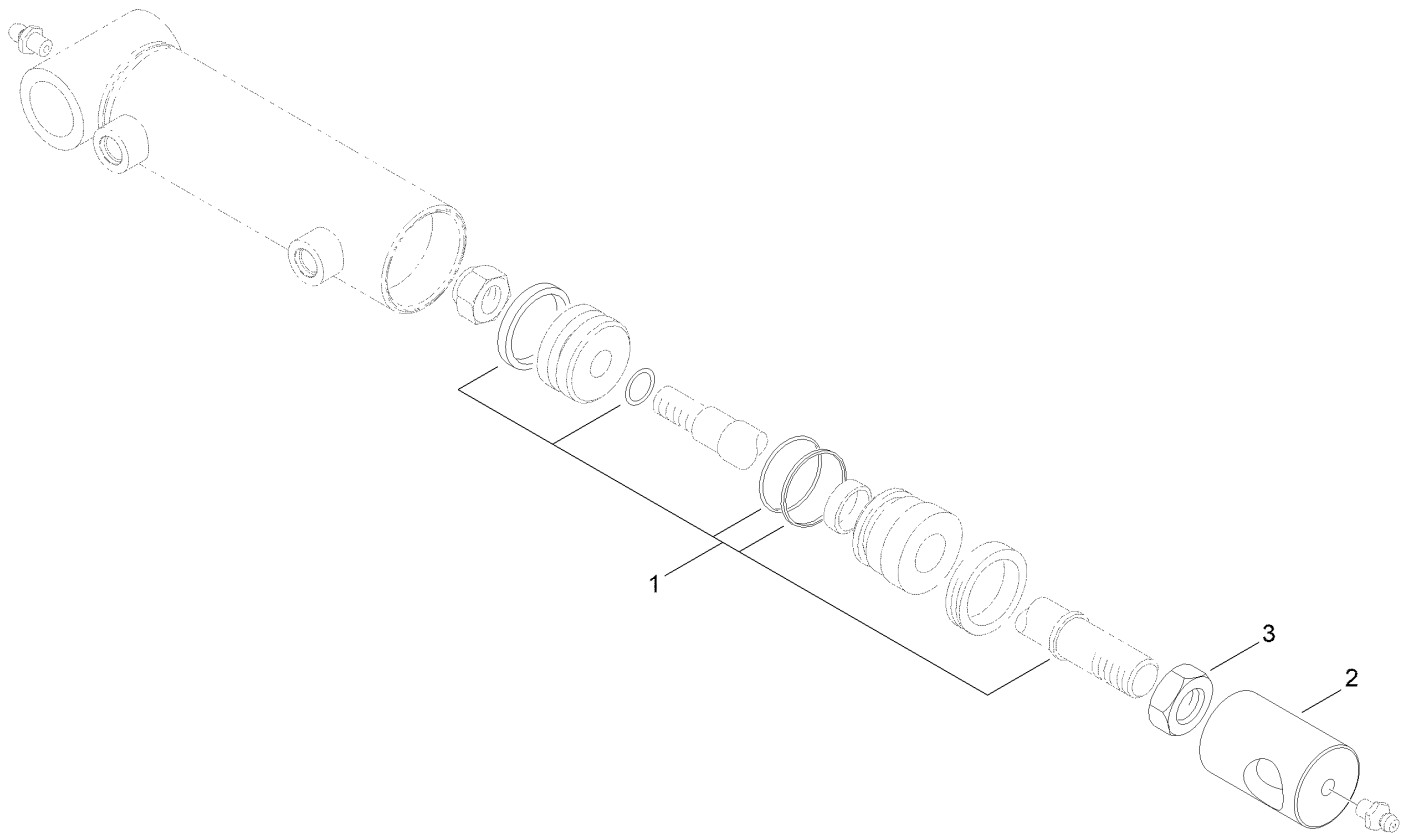
# Rear Lift Arm and Carrier Frame Assembly



## Rear Lift Arm and Carrier Frame Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>        | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>     |
|-------------|--------------------|-------------|---------------------------|-------------|--------------------|-------------|------------------------|
| 1           | 112-9916           | 1           | HYD Cylinder ASM          | 14          | 3-6781             | 1           | Washer-Flat            |
| 2           | 3-6498             | 1           | Washer-Thrust             | 15          | 283-71             | 1           | Pin-Lynch              |
| 3           | 95-8990            | 1           | Shaft-Pivot, Rear         | 16          | 121-3616-03        | 1           | Guard                  |
| 4           | 3220-9             | 1           | Nut-Jam                   | 17          | 322-12             | 2           | Screw-HH               |
| 5           | 86-1480            | 1           | Washer                    | 18          | 322-3              | 2           | Screw-HH               |
| 6           | 136-3415           | 1           | Rear Liftarm ASM          | 19          | 32128-20           | 4           | Nut-HF                 |
| 6:2         | 69-6470            | 2           | Bushing-Caster            | 20          | 32120-93           | 3           | Ring-Retaining         |
| 6:3         | 302-5              | 1           | Fitting-Grease            | 21          | 95-8575            | 1           | Pin-Clevis             |
| 7           | 3234-27            | 1           | Screw-HHF                 | 22          | 104-4229           | 1           | Rear Carrier Frame ASM |
| 8           | 75-7730            | 1           | Washer-Thrust             | 22:2        | 108-4000           | 2           | Bushing                |
| 10          | 100-4944           | 1           | Shaft-Pivot, Cutting Unit | 23          | 95-8936            | 1           | Strip-Wear             |
| 11          | 323-6              | 1           | Screw-HH                  | 24          | 3269-18            | 4           | Rivet-Blind            |
| 12          | 323-4              | 1           | Screw-HH                  | 25          | 302-60             | 1           | Fitting-Grease         |
| 13          | 63-7400            | 1           | Washer-Rebound            | 26          | 3256-23            | 4           | Washer-Plain           |

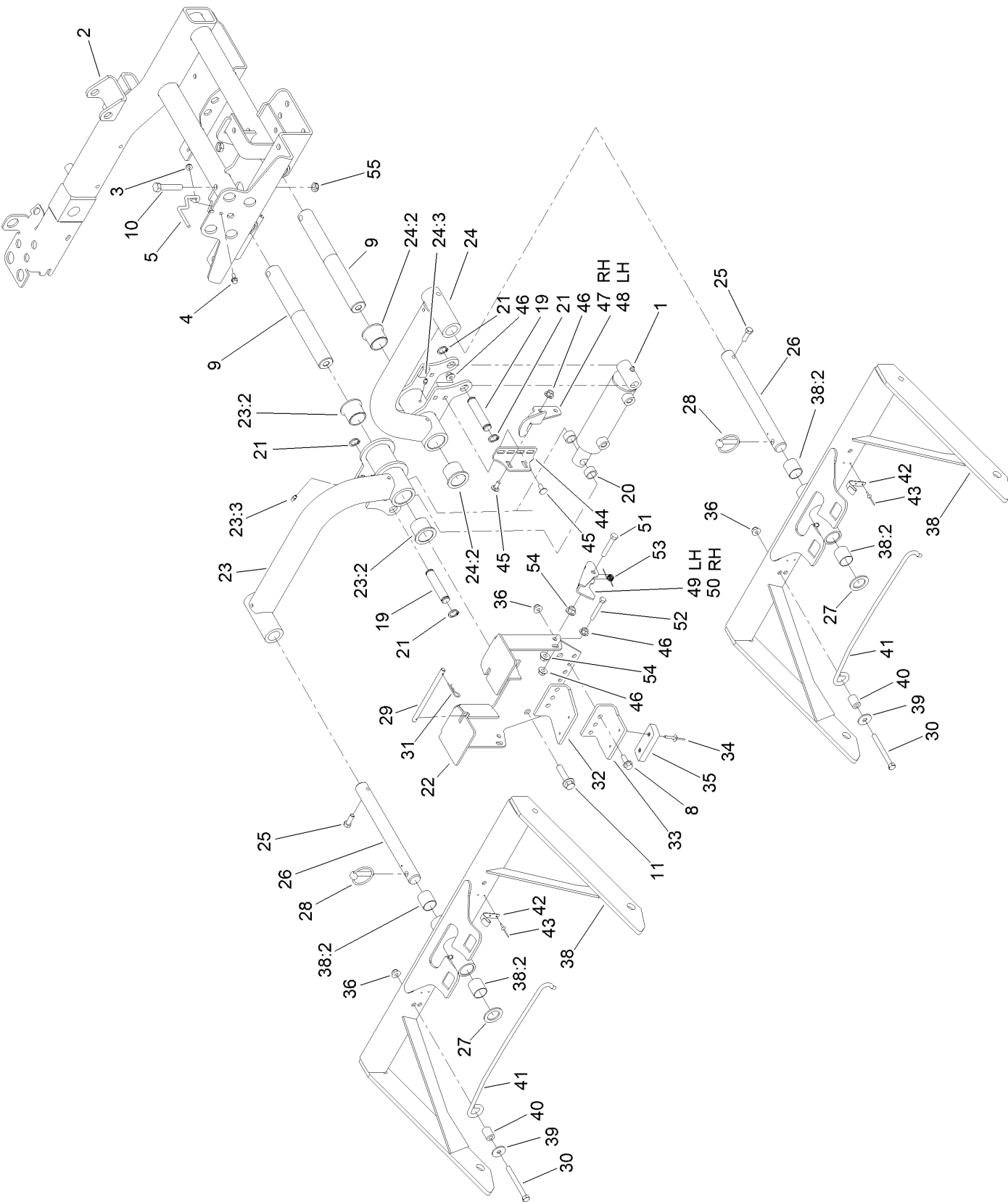
# Hydraulic Cylinder Assembly No. 112-9916



## Hydraulic Cylinder Assembly No. 112-9916 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 115-3410           | 1           | Seal Kit           |
| 2           | 108-9035           | 1           | Clevis             |
| 3           | 3220-7             | 1           | Nut-Jam            |

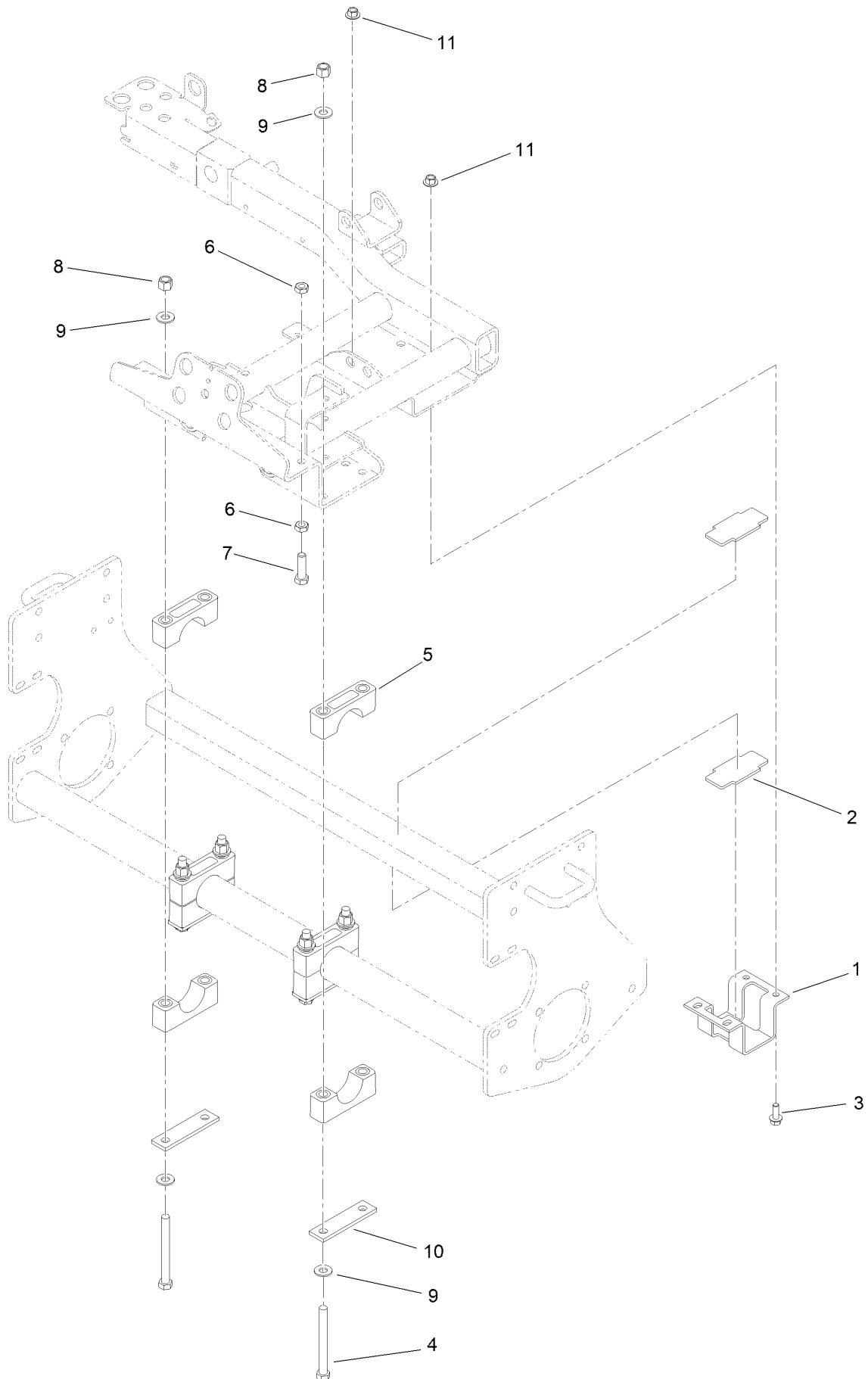
# Sidewinder Carrier Assembly



## Sidewinder Carrier Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>      |
|-------------|--------------------|-------------|-----------------------|-------------|--------------------|-------------|-------------------------|
| 1           | 112-9916           | 1           | HYD Cylinder ASM      | 31          | 3290-467           | 2           | Pin-Hair                |
| 2           | 100-4939-03        | 1           | Carrier-Sidewinder    | 32          | 110-8793-03        | 1           | Stop-Deck, RH           |
| 3           | 32128-33           | 1           | Nut-HF                | 33          | 110-8794-03        | 1           | Stop-Deck, LH           |
| 4           | 3234-4             | 1           | Screw-HHF             | 34          | 3269-11            | 4           | Rivet-Pop               |
| 5           | 99-3433            | 1           | Wire-Center           | 35          | 86-5350            | 2           | Bumper-Rubber           |
| 8           | 3234-11            | 4           | Screw-HHF             | 36          | 104-8301           | 6           | Nut-HF, NI              |
| 9           | 95-8531            | 2           | Shaft-Pivot, Liftarm  | 38          | 110-8787           | 2           | Front Carrier Frame ASM |
| 10          | 325-10             | 2           | Screw-HH              | 38:2        | 108-4000           | 2           | Bushing                 |
| 11          | 3234-27            | 2           | Screw-HHF             | 39          | 93-8806            | 2           | Washer-Hardened         |
| 19          | 95-8575            | 2           | Pin-Clevis            | 40          | 104-4613           | 2           | Tube-Latch              |
| 20          | 75-9590            | 2           | Spacer-Cylinder       | 41          | 104-4612           | 2           | Rod-Latch               |
| 21          | 32120-93           | 4           | Ring-Retaining        | 42          | 104-4237           | 2           | Clip-Rod                |
| 22          | 104-4820-03        | 1           | Bracket-Stop, Carrier | 43          | 3290-271           | 4           | Rivet-Pop               |
| 23          | 136-3419           | 1           | RH Liftarm ASM        | 44          | 104-4828-03        | 2           | Bracket-Actuator        |
| 23:2        | 69-6470            | 2           | Bushing-Caster        | 45          | 3230-23            | 8           | Bolt-CARR               |
| 23:3        | 302-5              | 1           | Fitting-Grease        | 46          | 32128-44           | 12          | Nut                     |
| 24          | 136-3417           | 1           | LH Liftarm ASM        | 47          | 104-4826-03        | 1           | Actuator-RH             |
| 24:2        | 69-6470            | 2           | Bushing-Caster        | 48          | 104-4827-03        | 1           | Actuator-LH             |
| 24:3        | 302-5              | 1           | Fitting-Grease        | 49          | 104-4819-03        | 1           | Bracket-Pivot, LH       |
| 25          | 323-6              | 2           | Screw-HH              | 50          | 104-4825-03        | 1           | Bracket-Pivot, RH       |
| 26          | 105-7560           | 2           | Shaft-Cu Pivot        | 51          | 323-12             | 2           | Screw-HH                |
| 27          | 3-6781             | 2           | Washer-Flat           | 52          | 322-12             | 2           | Screw-HH                |
| 28          | 283-71             | 2           | Pin-Lynch             | 53          | 104-4821           | 2           | Spring-Torsion          |
| 29          | 104-0472           | 1           | Rod                   | 54          | 32128-43           | 4           | Nut-Flange              |
| 30          | 323-42             | 2           | Screw-HH              | 55          | 3296-45            | 2           | Nut-Hex                 |

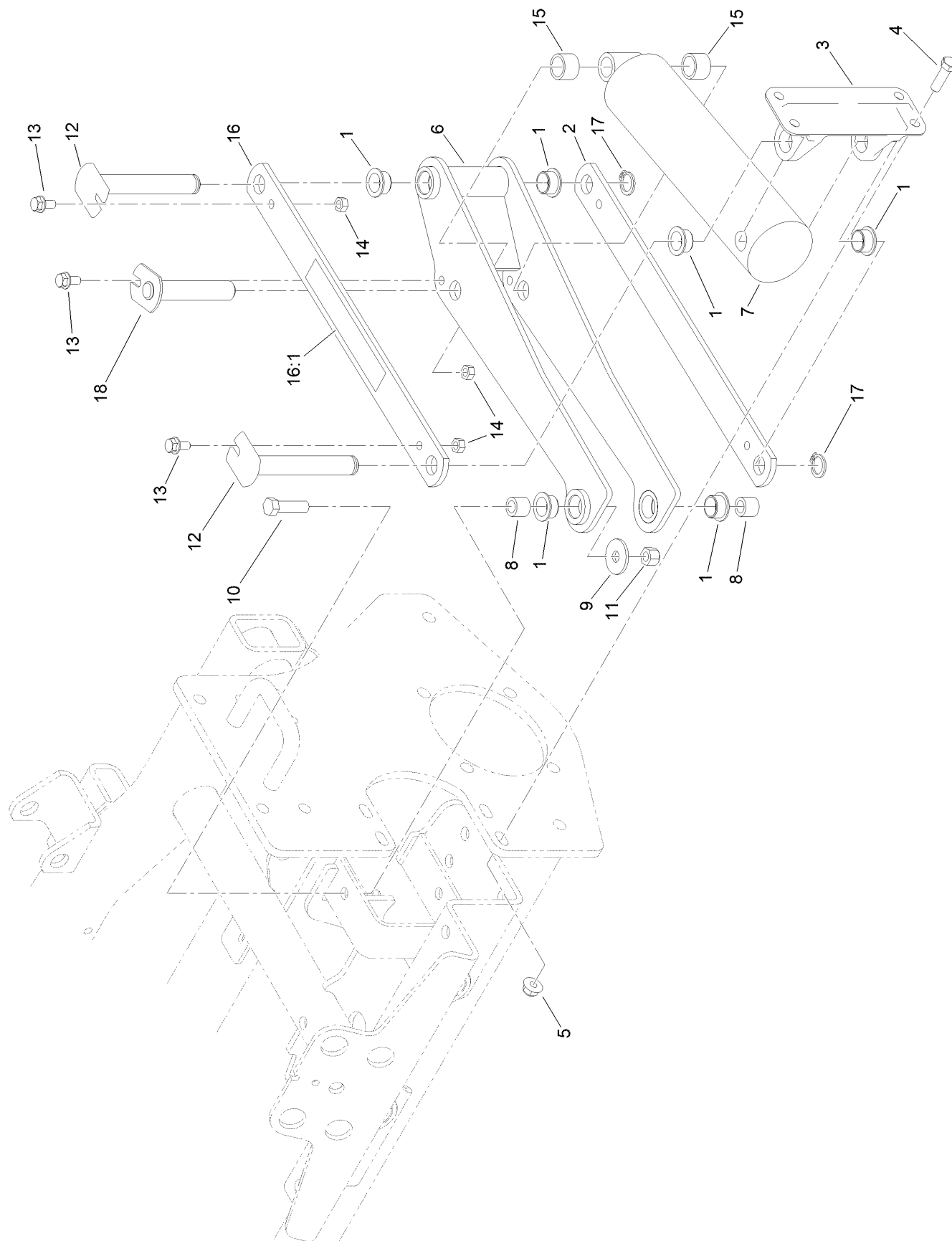
# Carrier Support Assembly



## Carrier Support Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|--------------------|
| 1           | 104-0416-0P        | 1           | Bracket-Slide      | 7           | 325-7              | 2           | Screw-HH           |
| 2           | 104-0417           | 2           | Slide-Plastic      | 8           | 3296-23            | 8           | Nut-Lock, NI       |
| 3           | 3234-11            | 4           | Screw-HHF          | 9           | 87-7270            | 16          | Washer-Thrust      |
| 4           | 325-19             | 8           | Screw-HH           | 10          | 99-3373            | 4           | Bar-Support, Slide |
| 5           | 104-4865           | 8           | Cap-Bearing        | 11          | 32128-43           | 4           | Nut-Flange         |
| 6           | 3218-5             | 4           | Nut-Jam            |             |                    |             |                    |

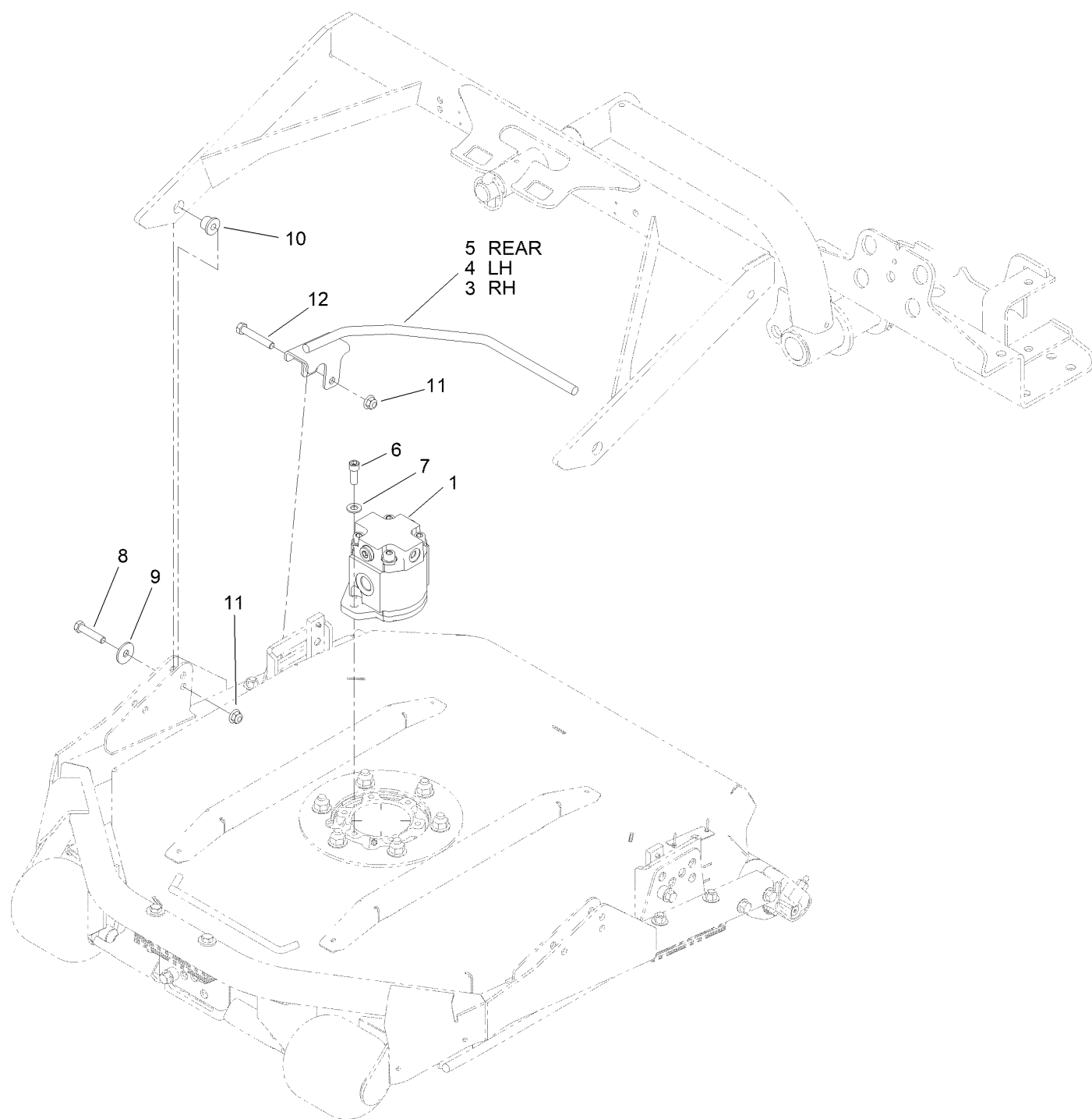
# Scissor Frame and Link Assembly



## Scissor Frame and Link Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>      |
|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|-------------------------|
| 1           | 95-8526            | 6           | Bushing-Plastic    | 11          | 3296-48            | 2           | Nut-Hex                 |
| 2           | 95-8527-0P         | 1           | Link-Scissor       | 12          | 125-1914           | 2           | Pin-Pivot               |
| 3           | 95-8883            | 1           | Mount-Scissor      | 13          | 3234-14            | 3           | Screw-HHF               |
| 4           | 323-7              | 4           | Screw-HH           | 14          | 32152-1            | 3           | Nut-Lock, Cone          |
| 5           | 104-8301           | 4           | Nut-HF, NI         | 15          | 46-6350            | 2           | Spacer                  |
| 6           | 95-8521-03         | 1           | Frame-Scissor      | 16          | 99-3505            | 1           | Scissors Link ASM       |
| 7           | 121-3654           | 1           | Cylinder-HYD       | 16:1        | 94-3353            | 1           | Decal-Pinch Point, Intl |
| 8           | 95-8603            | 2           | Spacer             | 17          | 32120-93           | 2           | Ring-Retaining          |
| 9           | 87-5330            | 2           | Washer             | 18          | 140-5248           | 1           | Pin-Ram, Pivot          |
| 10          | 324-6              | 2           | Screw-HH           |             |                    |             |                         |

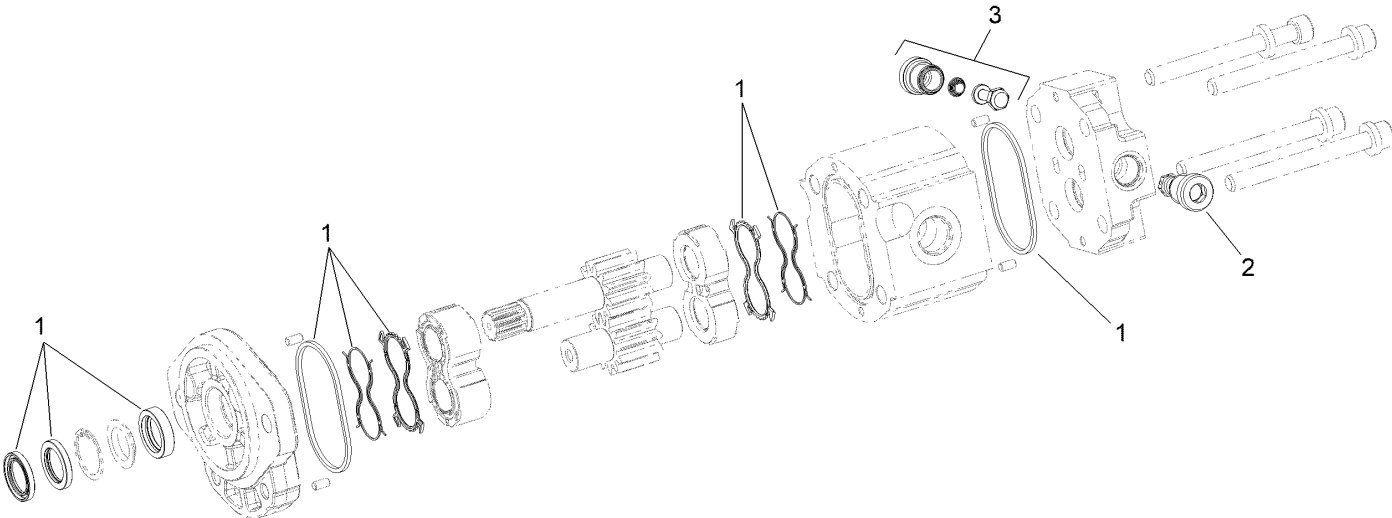
# Hydraulic Motor and Foot Guard Assembly



## Hydraulic Motor and Foot Guard Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|--------------------|
| 1           | 117-5141           | 3           | HYD Motor ASM      | 8           | 323-52             | 6           | Screw-HH           |
| 3           | 112-9901-03        | 1           | Guard-Foot, RH     | 9           | 93-8806            | 6           | Washer-Hardened    |
| 4           | 112-9902-03        | 1           | Guard-Foot, LH     | 10          | 95-8803            | 6           | Bushing-Flange     |
| 5           | 112-9900-03        | 1           | Guard-Foot         | 11          | 104-8301           | 10          | Nut-HF, NI         |
| 6           | 3274-7             | 6           | Screw-HSH          | 12          | 323-11             | 4           | Screw-HH           |
| 7           | 3256-24            | 6           | Washer-Plain       |             |                    |             |                    |

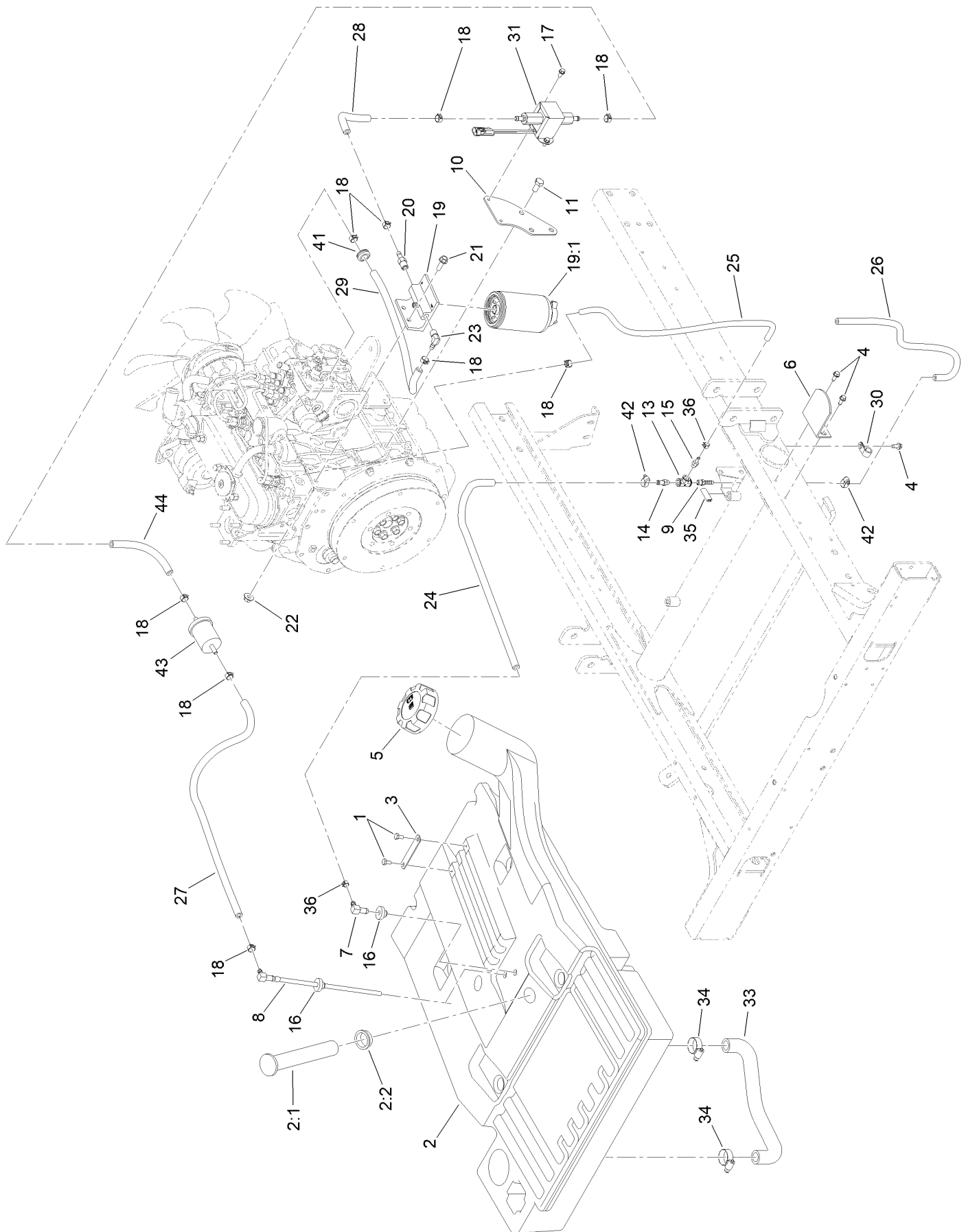
**Gear Motor Assembly No. 117-5141**



## **Gear Motor Assembly No. 117-5141 (continued)**

| <b><i>Ref.</i></b> | <b><i>Part Number</i></b> | <b><i>Qty.</i></b> | <b><i>Description</i></b> |
|--------------------|---------------------------|--------------------|---------------------------|
| 1                  | 117-0235                  | 1                  | Seal Kit                  |
| 2                  | 107-7820                  | 1                  | Valve-Relief              |
| 3                  | 107-7821                  | 1                  | Valve-Anticavitation      |

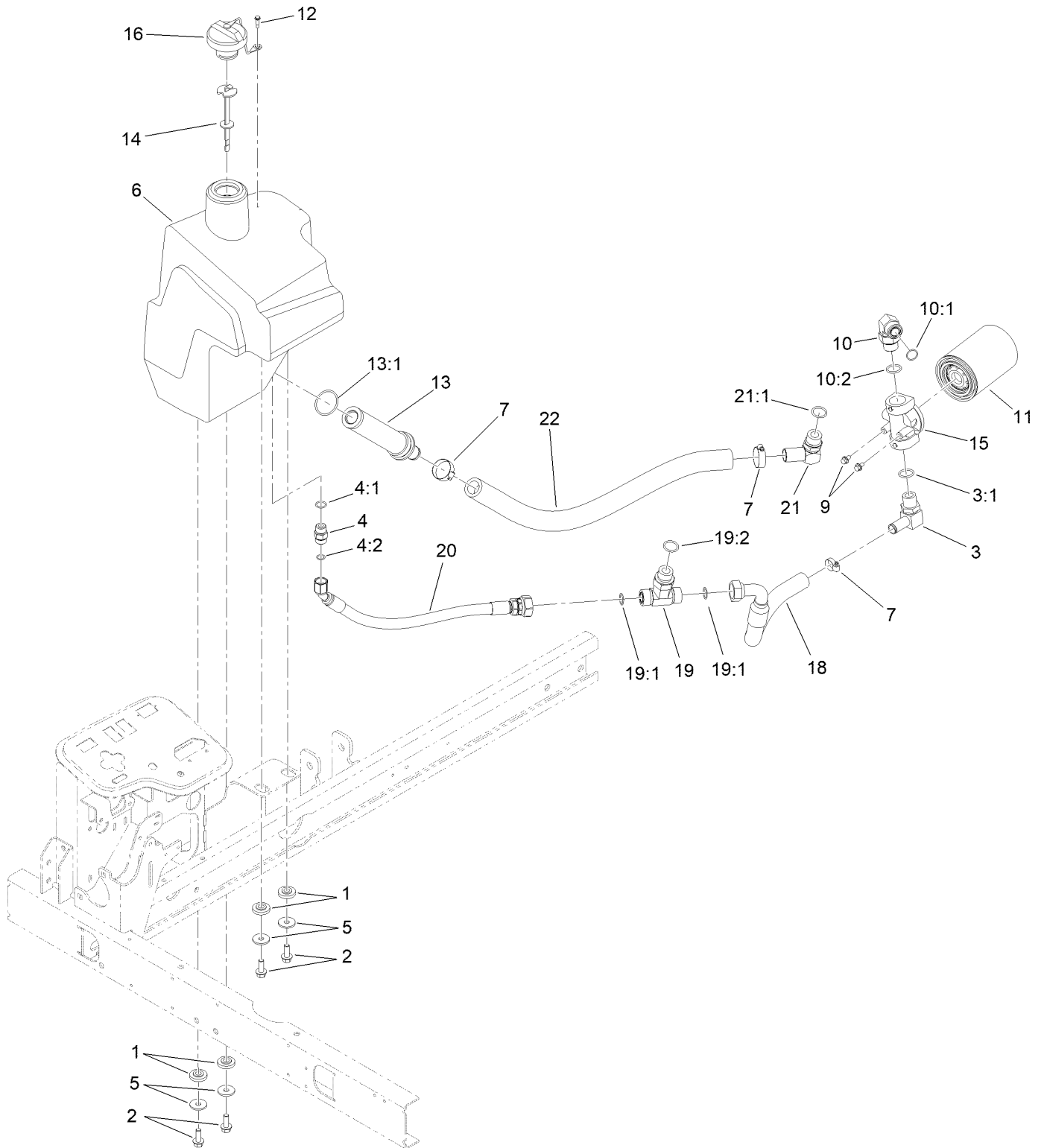
# Fuel System Assembly



## Fuel System Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>         | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>  |
|-------------|--------------------|-------------|----------------------------|-------------|--------------------|-------------|---------------------|
| 1           | 321-2              | 2           | Screw-HH                   | 20          | 353-783            | 1           | Fitting-STR         |
| 2           | 105-7865           | 1           | Tank-Fuel                  | 21          | 3234-17            | 2           | Screw-HHF           |
| 2:1         | 95-8971            | 1           | Gauge-Fuel                 | 22          | 32128-44           | 2           | Nut                 |
| 2:2         | 95-8972            | 1           | Grommet                    | 23          | 353-781            | 1           | Fitting-HYD, 90     |
| 3           | 95-8881            | 1           | Strap-Line, Fuel           | 24          | 110-6187           | 1           | Hose-Fuel           |
| 4           | 32144-10           | 3           | Screw-HWH                  | 25          | 110-8751           | 1           | Hose-Fuel           |
| 5           | 114-5064           | 1           | Cap-Diesel                 | 26          | 110-5701           | 1           | Hose-Fuel           |
| 6           | 95-8968-03         | 1           | Support-Tank, Fuel         | 27          | 110-3257           | 1           | Hose-Fuel           |
| 7           | 46-6550            | 1           | Fitting-Elbow, 90 DEG      | 28          | 109-0310           | 1           | Hose-Fuel           |
| 8           | 110-9689           | 1           | Pipe-Stand                 | 29          | 121-7852           | 1           | Hose-Fuel           |
| 9           | 304-73             | 1           | Fitting-Straight           | 30          | 2412-73            | 1           | Clamp-R             |
| 10          | 136-3818-0P        | 1           | Plate-Fuel Pump            | 31          | 145-3160           | 1           | Pump-Fuel, Electric |
| 11          | 63-7790            | 3           | Screw-Cap                  | 33          | 105-4094           | 1           | Hose-Formed         |
| 13          | 354-20             | 1           | Fitting-Tee                | 34          | 2412-129           | 2           | Clamp-Hose          |
| 14          | 354-21             | 1           | Fitting-Barbed             | 35          | 110-8754           | 1           | Trim                |
| 15          | 354-22             | 1           | Fitting-Barbed             | 36          | 2412-80            | 2           | Clamp-Hose          |
| 16          | 46-6560            | 2           | Bushing                    | 41          | 1-543296           | 1           | Grommet             |
| 17          | 32144-4            | 2           | Screw-HWH                  | 42          | 2412-108           | 2           | Clamp-Worm          |
| 18          | 92-2379            | 9           | Clamp-Hose                 | 43          | 98-7612            | 1           | Filter-Fuel         |
| 19          | 110-9044           | 1           | Separator-Filter           | 44          | 108-3280           | 1           | Hose-Fuel           |
| 19:1        | 110-9049           | 1           | Filter-Spin On, Fuel/Water |             |                    |             |                     |

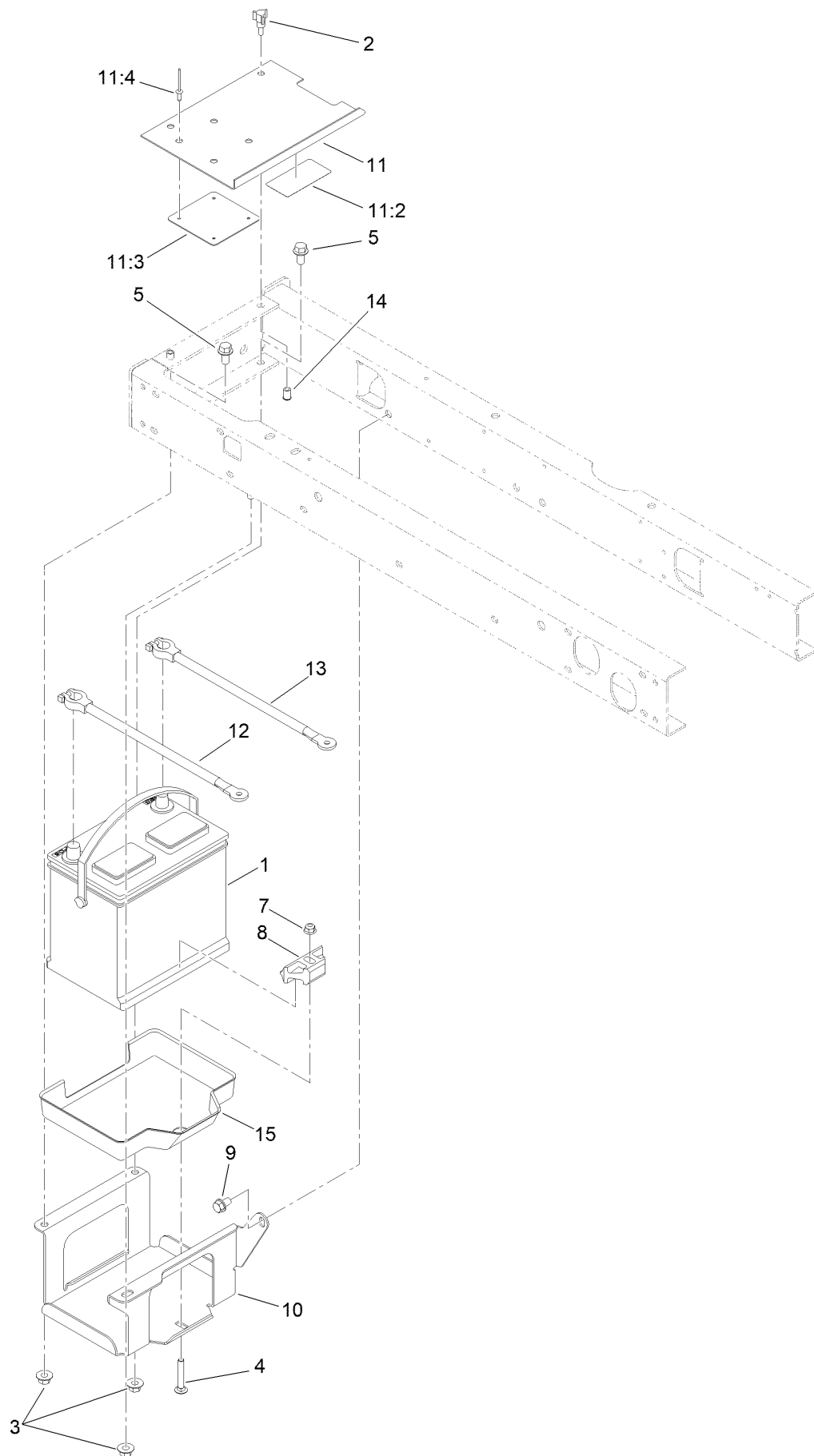
# Hydraulic Tank Assembly



## Hydraulic Tank Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|-----------------------|-------------|--------------------|-------------|--------------------|
| 1           | 240-11             | 4           | Bushing-Flange        | 12          | 57-5420            | 1           | Screw-Shoulder     |
| 2           | 3234-11            | 4           | Screw-HHF             | 13          | 104-7546           | 1           | Tank Strainer ASM  |
| 3           | 353-987            | 1           | Fitting-Elbow, 90     | 13:1        | 340-136            | 1           | O-Ring             |
| 3:1         | 237-81             | 1           | O-Ring                | 14          | 119-6968           | 1           | Dipstick-Oil       |
| 4           | 100-4890           | 1           | Fitting-Check         | 15          | 92-5821            | 1           | Head-Filter        |
| 4:1         | 237-79             | 1           | O-Ring                | 16          | 93-7160            | 1           | Cap-Oil, HYD       |
| 4:2         | 237-30             | 1           | O-Ring                | 18          | 104-0486           | 1           | Hose-HYD           |
| 5           | 63-8410            | 4           | Washer                | 19          | 104-4836           | 1           | Fitting-Tee        |
| 6           | 104-4840           | 1           | Tank-HYD              | 19:1        | 237-58             | 2           | O-Ring             |
| 7           | 2412-34            | 3           | Clamp-Hose            | 19:2        | 237-81             | 1           | O-Ring             |
| 9           | 3234-13            | 2           | Screw-HHF             | 20          | 104-0487           | 1           | Hose-HYD           |
| 10          | 340-142            | 1           | Fitting-Elbow, 90 DEG | 21          | 95-3502            | 1           | Fitting-Elbow 90   |
| 10:1        | 237-58             | 1           | O-Ring                | 21:1        | 237-81             | 1           | O-Ring             |
| 10:2        | 237-81             | 1           | O-Ring                | 22          | 104-5486           | 1           | Hose               |
| 11          | 86-3010            | 1           | Filter-Oil            |             |                    |             |                    |

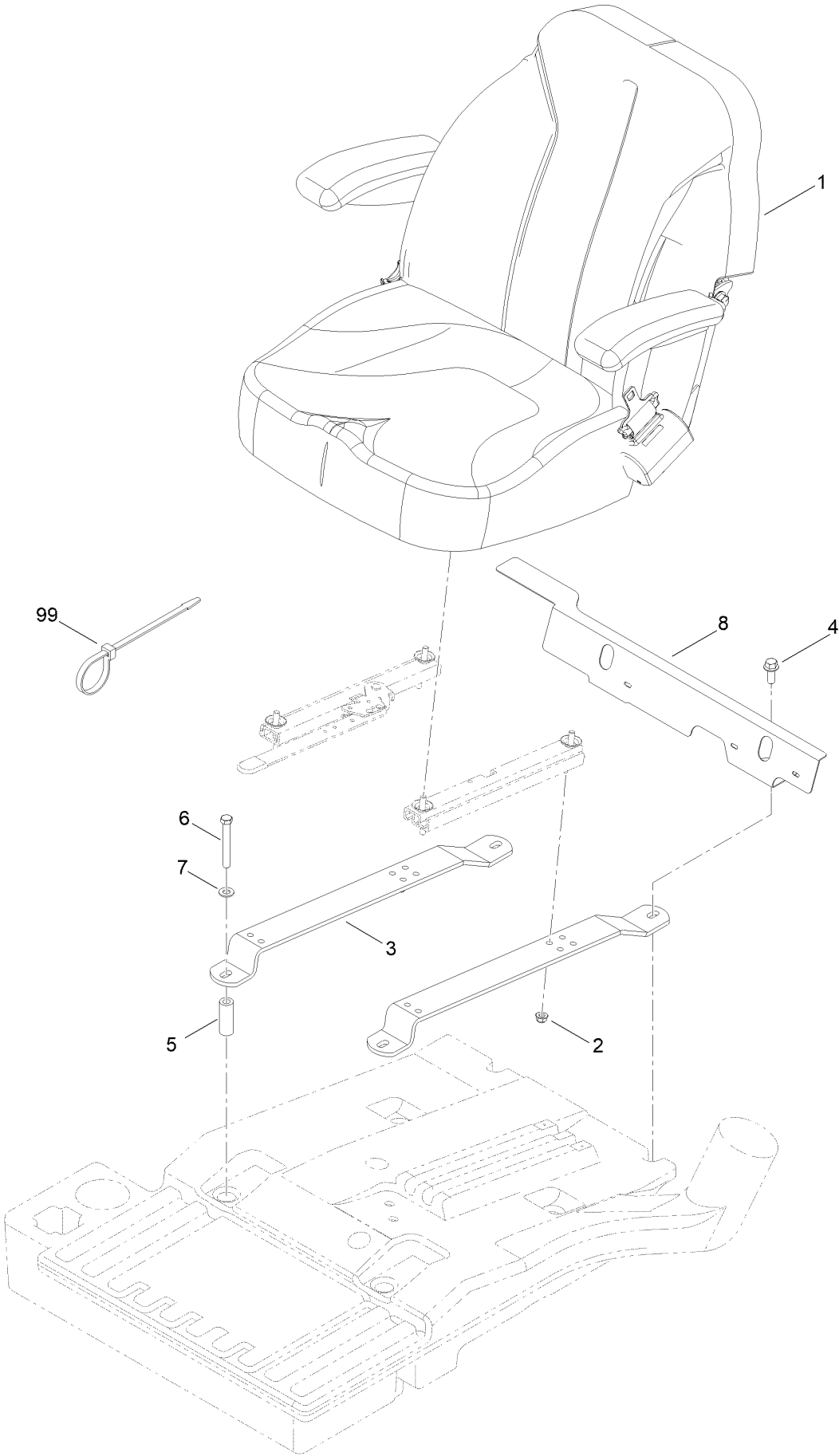
# Battery Assembly



## Battery Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>         | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>       |
|-------------|--------------------|-------------|----------------------------|-------------|--------------------|-------------|--------------------------|
| 1           | 104-0496           | 1           | Battery- Wet, 12V, 540 CCA | 11          | 99-3602            | 1           | Battery Cover ASM        |
| 2           | 233-70             | 2           | Knob-Star, Three           | 11:2        | 93-7276            | 1           | Decal-Danger             |
| 3           | 32128-43           | 3           | Nut-Flange                 | 11:3        | 87-7620            | 1           | Shield-Terminal, Battery |
| 4           | 3230-6             | 1           | Bolt-CARR                  | 11:4        | 3269-27            | 4           | Rivet-Snap               |
| 5           | 3234-1             | 3           | Screw-HHF                  | 12          | 95-8853            | 1           | Cable-Battery, Positive  |
| 7           | 104-8300           | 1           | Nut-HF, NI                 | 13          | 95-8854            | 1           | Cable-Battery, Negative  |
| 8           | 138-6335           | 1           | Retainer-Battery           | 14          | 32148-6            | 2           | Nut-Clinch               |
| 9           | 32144-15           | 1           | Screw-HHFTF                | 15          | 99-3513            | 1           | Tray-Battery             |
| 10          | 95-8796-03         | 1           | Support-Battery            |             |                    |             |                          |

Seat Assembly



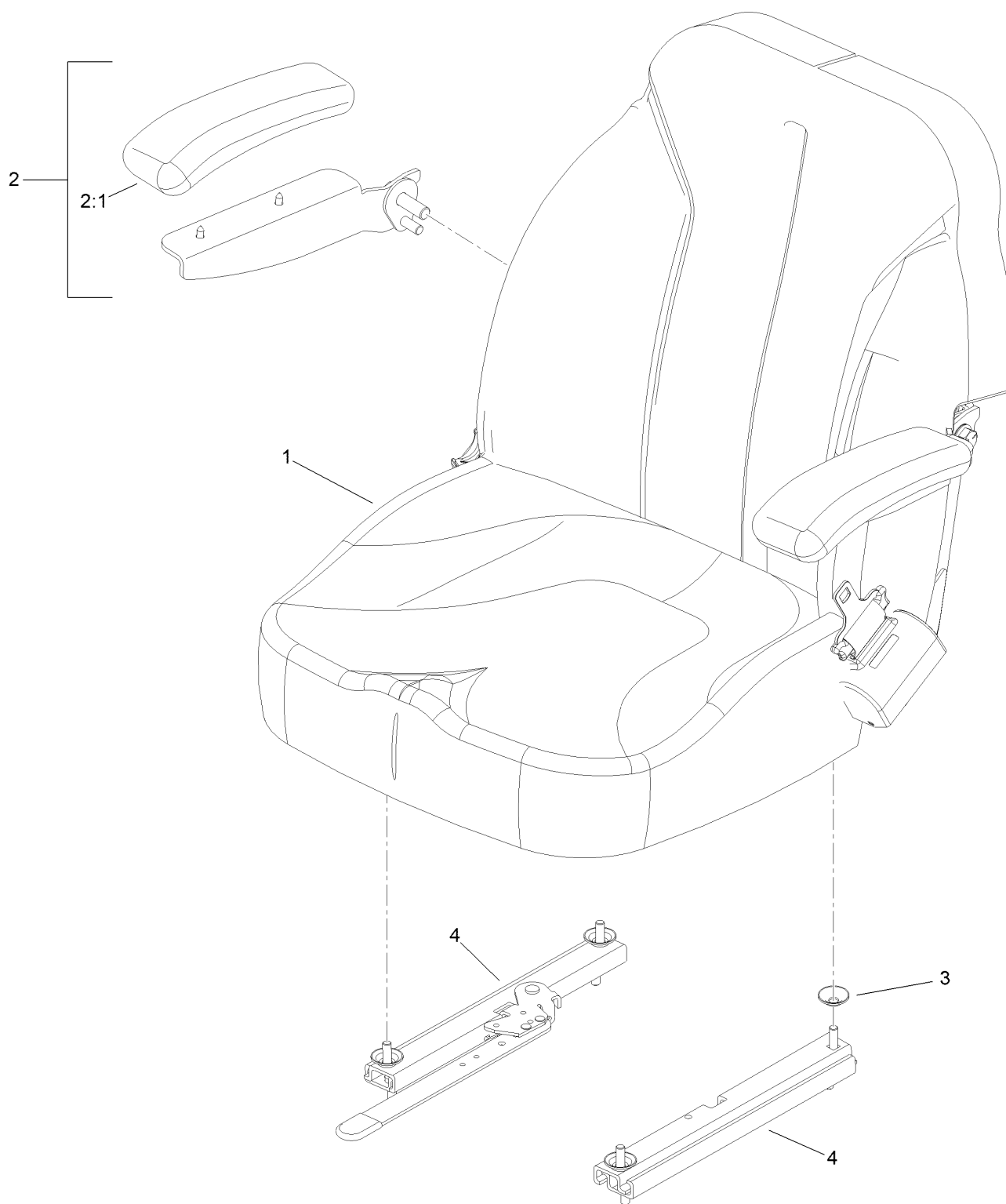
## Seat Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>  |
|-------------|--------------------|-------------|---------------------|
| 1           | 139-2679           | 1           | Seat And Track ASM  |
| 2           | 104-8300           | 4           | Nut-HF, NI          |
| 3           | 121-3655-03        | 2           | Strap-Support, Seat |
| 4           | 3234-11            | 2           | Screw-HHF           |
| 5           | 104-0466           | 2           | Spacer              |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 6           | 323-14             | 2           | Screw-HH           |
| 7           | 3256-24            | 2           | Washer-Plain       |
| 8           | 121-3644-03        | 1           | Shield-Heat        |
| 99          | 3290-378           | 1           | Tie-Cable ●        |

● Not illustrated

# Seat and Track Assembly No. 139-2679

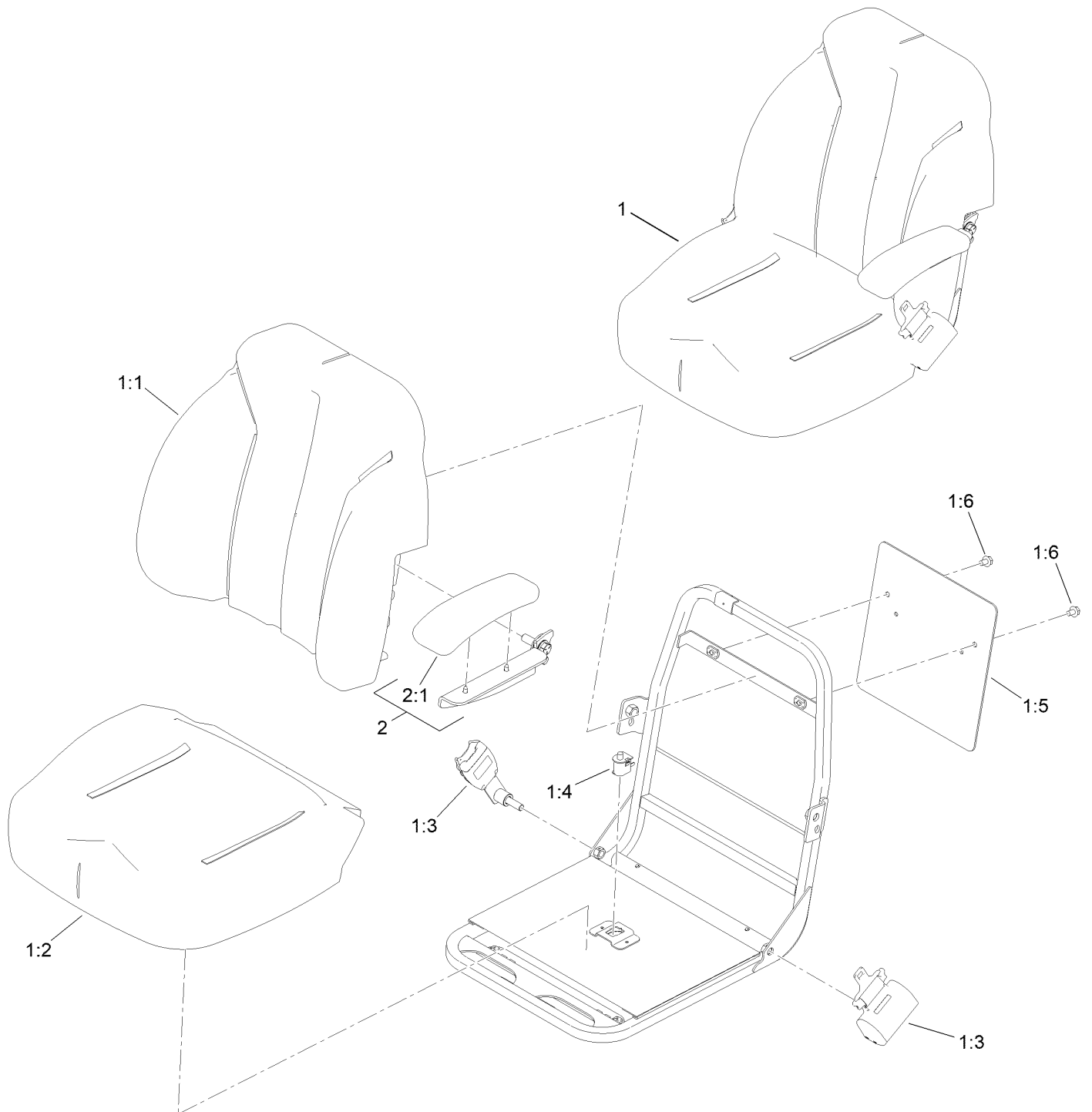


## Seat and Track Assembly No. 139-2679 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 139-2700           | 1           | Seat ASM           |
| 2           | 121-3658           | 1           | RH Arm Rest Kit    |
| 2:1         | 110-4163           | 1           | Cushion-Rest, Arm  |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 3           | 136-9002           | 4           | Spacer-Mounting    |
| 4           | 126-2177           | 1           | Track-Seat         |

# Seat Assembly No. 139-2700

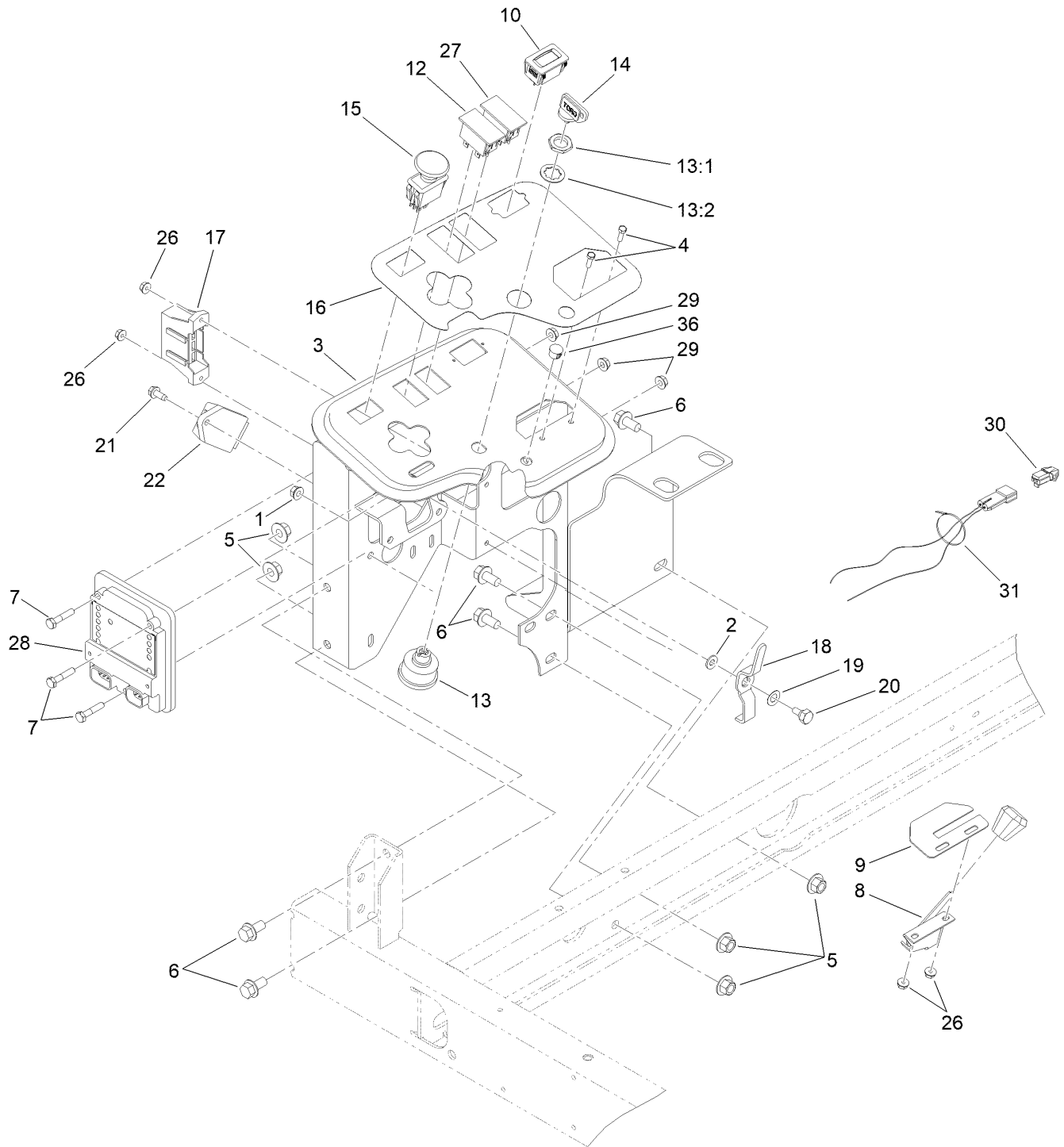


## Seat Assembly No. 139-2700 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 139-2680           | 1           | Seat ASM           |
| 1:1         | 145-0083           | 1           | Cover-Seat, Back   |
| 1:2         | 145-0084           | 1           | Cover-Seat, Bottom |
| 1:3         | 139-2707           | 1           | Seat Belt Kit      |
| 1:4         | 82-2190            | 1           | Switch-Bail        |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1:5         | 139-2701           | 1           | Plate-Decal        |
| 1:6         | 3234-30            | 2           | Screw-HHF          |
| 2           | 121-3660           | 1           | LH Arm Rest Kit    |
| 2:1         | 110-4163           | 1           | Cushion-Rest, Arm  |

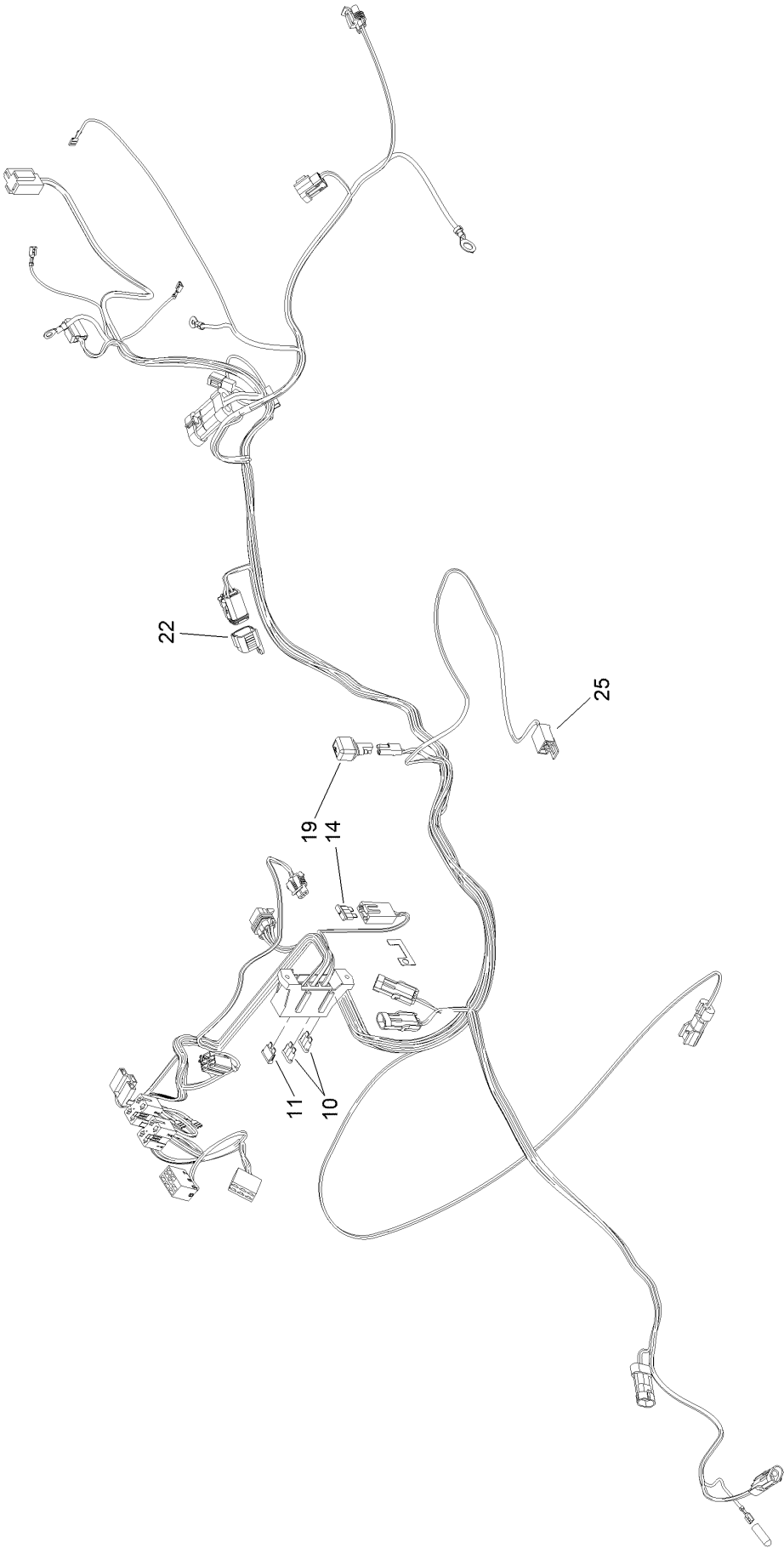
# Control Panel Assembly



## Control Panel Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>   | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>       |
|-------------|--------------------|-------------|----------------------|-------------|--------------------|-------------|--------------------------|
| 1           | 32128-32           | 1           | Nut-HHF              | 15          | 93-9999            | 1           | Switch-PTO               |
| 2           | 3256-22            | 1           | Washer-Flat          | 16          | 136-3679           | 1           | Decal-Console            |
| 3           | 136-3681-03        | 1           | Panel-Control        | 17          | 122-2515           | 1           | Harness-Wire, Main       |
| 4           | 3290-134           | 4           | Screw                | 18          | 99-3401            | 1           | Lever-Lock               |
| 5           | 32128-43           | 5           | Nut-Flange           | 19          | 3290-477           | 1           | Washer-Curved            |
| 6           | 3234-1             | 5           | Screw-HHF            | 20          | 63-3410            | 1           | Screw-Shoulder           |
| 7           | 321-8              | 3           | Screw-HH             | 21          | 32144-10           | 1           | Screw-HWH                |
| 8           | 138-1224           | 1           | Cable-Throttle       | 22          | 98-7611            | 1           | Controller-Glow          |
| 9           | 104-0421           | 1           | Plate-Stop, Throttle | 26          | 3290-148           | 4           | Nut-HF                   |
| 10          | 120-2244           | 1           | Hourmeter            | 27          | 100-8071           | 1           | Lamp-Warning             |
| 12          | 100-8070           | 1           | Lamp-Warning         | 28          | 106-9277           | 1           | Module-Control, Standard |
| 13          | 104-2541           | 1           | Ignition Switch ASM  | 29          | 32128-33           | 3           | Nut-HF                   |
| 13:1        | 218-461            | 1           | Nut-HH               | 30          | 104-4875           | 1           | Harness-Wire, Jumper     |
| 13:2        | 3254-5             | 1           | Washer-Lock          | 31          | 3290-379           | 1           | Tie-Cable                |
| 14          | 63-8360            | 1           | Key-Ignition         | 36          | 2410-64            | 1           | Plug-Button              |

Wire Harness Assembly No. 122-2515

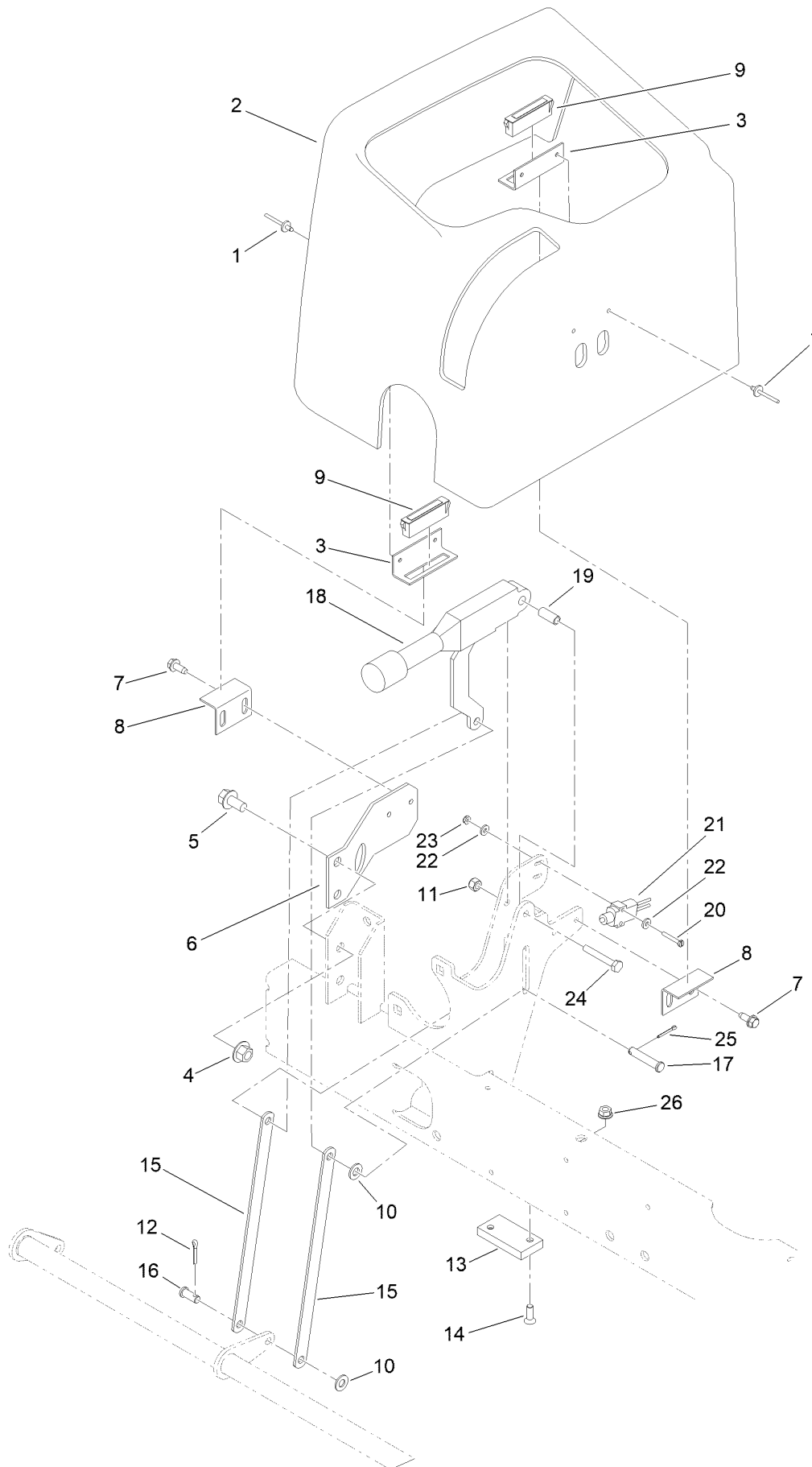


## Wire Harness Assembly No. 122-2515 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 10          | 218-578            | 2           | Fuse-Blade, 10 Amp |
| 11          | 109355             | 1           | Fuse-Blade, 15 Amp |
| 14          | 94-6710            | 1           | Fuse-2 Amp         |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>        |
|-------------|--------------------|-------------|---------------------------|
| 19          | 100-4918           | 1           | Diode                     |
| 22          | 32180-156          | 1           | Cap-Plug, 6 Way           |
| 25          | 106-7090           | 1           | Harness-Wire, Seat Switch |

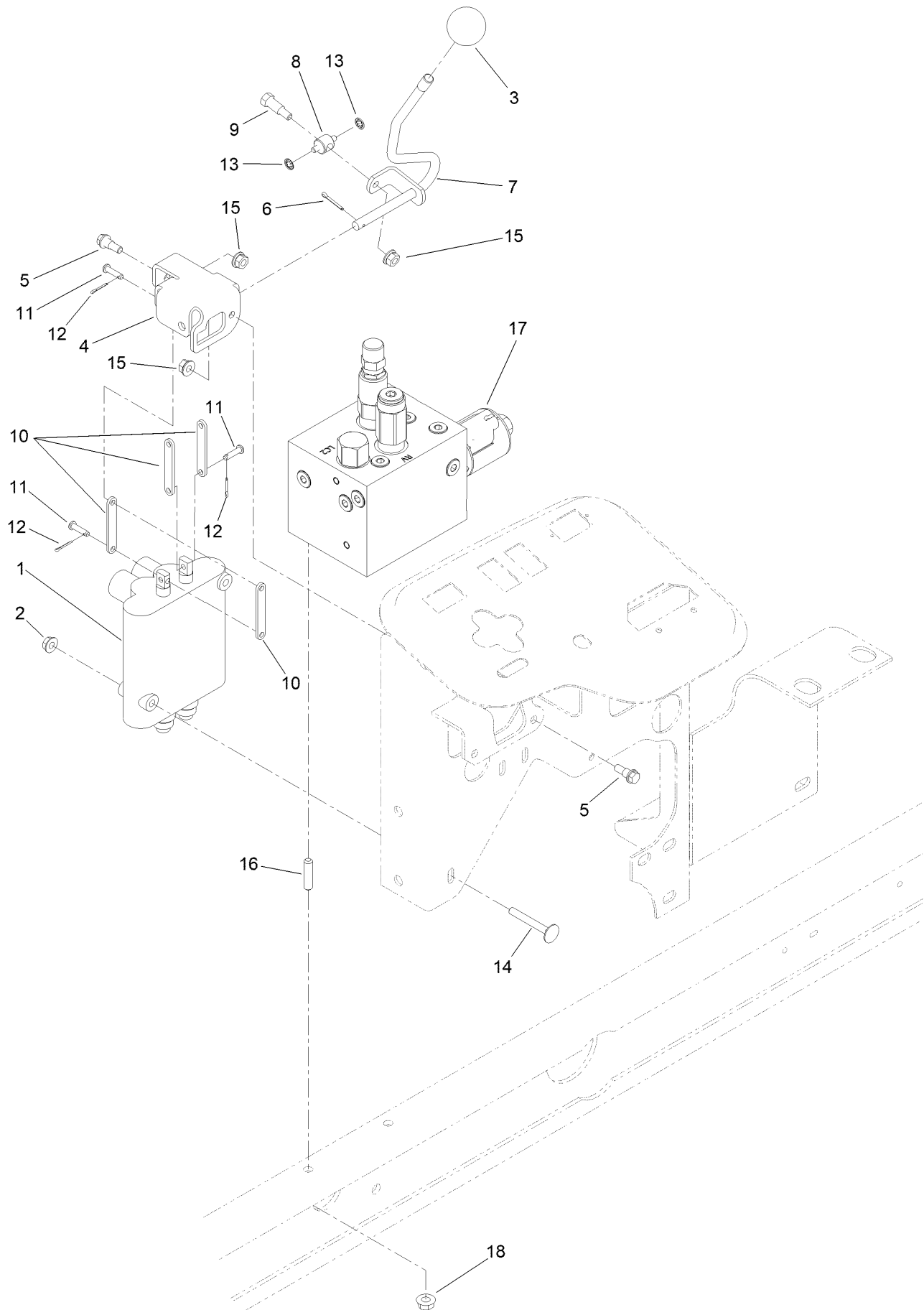
# Parking Brake and Dash Cover Assembly



## Parking Brake and Dash Cover Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>       | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    |
|-------------|--------------------|-------------|--------------------------|-------------|--------------------|-------------|-----------------------|
| 1           | 3269-5             | 4           | Rivet-Pop                | 14          | 3289-4             | 2           | Screw-FH              |
| 2           | 95-8707            | 1           | Cover-Dash               | 15          | 104-4628           | 2           | Link-Brake, Parking   |
| 3           | 95-8763            | 2           | Bracket-Hold Down, Cover | 16          | 283-62             | 1           | Pin-Clevis            |
| 4           | 32128-43           | 2           | Nut-Flange               | 17          | 94-3829            | 1           | Pin-Clevis            |
| 5           | 3234-1             | 2           | Screw-HHF                | 18          | 104-4817           | 1           | Lever-Brake           |
| 6           | 95-8764-0P         | 1           | Support-Magnet           | 19          | 87-4710            | 1           | Spacer-Brake, Parking |
| 7           | 32144-10           | 4           | Screw-HWH                | 20          | 32105-9            | 2           | Screw-HH              |
| 8           | 95-8765            | 2           | Bracket-Strike, Magnet   | 21          | 95-8900            | 1           | Switch                |
| 9           | 58-4250            | 2           | Catch-Magnetic           | 22          | 3256-21            | 4           | Washer-Flat           |
| 10          | 3256-23            | 2           | Washer-Plain             | 23          | 3296-9             | 2           | Nut-Hex               |
| 11          | 3296-42            | 1           | Nut-Lock, NI             | 24          | 321-10             | 1           | Screw-HH              |
| 12          | 3272-10            | 1           | Pin-Cotter               | 25          | 3272-6             | 1           | Pin-Cotter            |
| 13          | 95-8684            | 1           | Pad-Bumper               | 26          | 104-7201           | 2           | Nut-HF, NI            |

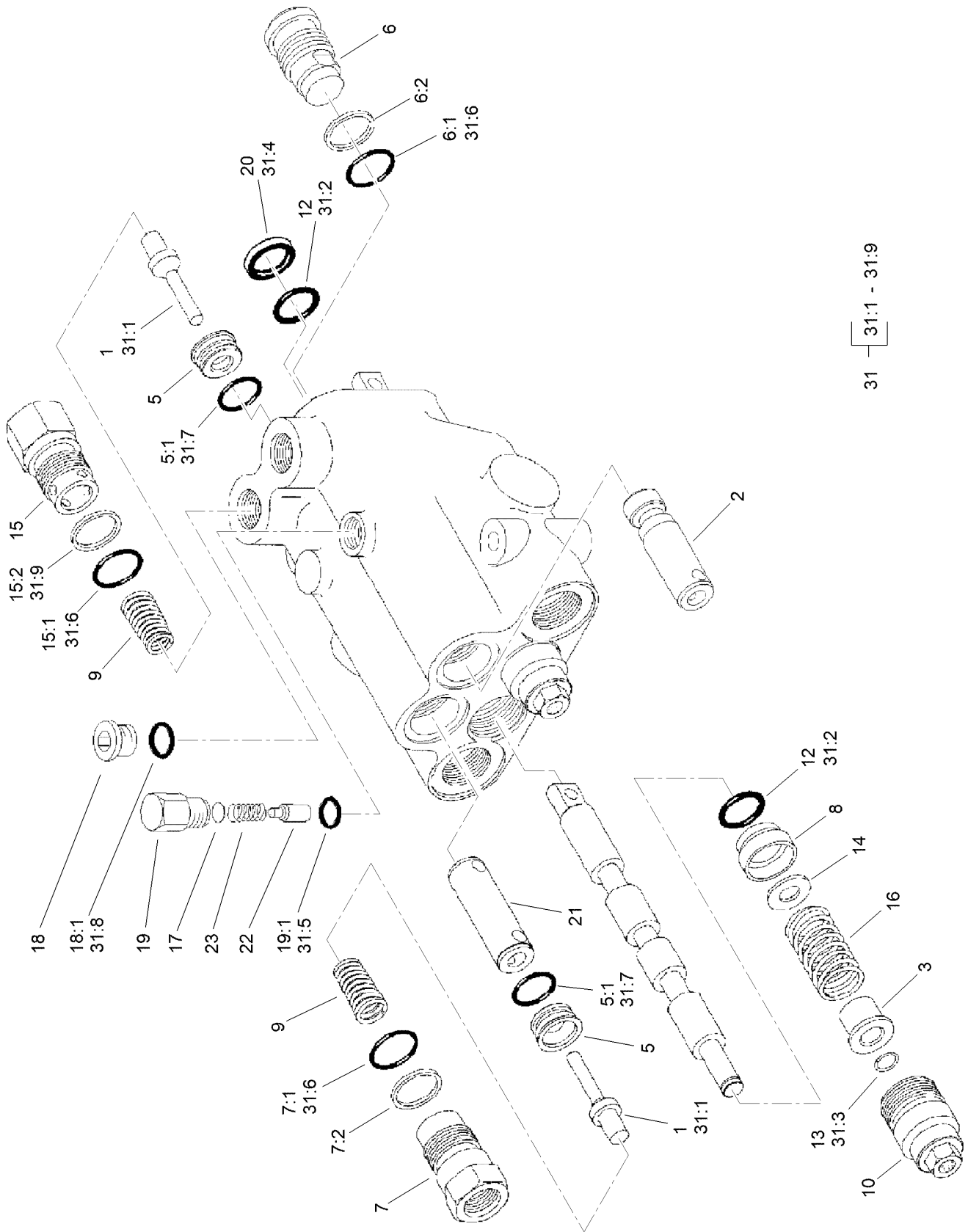
# 2-Spool Control Valve Assembly



## 2-Spool Control Valve Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>        | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|---------------------------|-------------|--------------------|-------------|--------------------|
| 1           | 95-8581            | 1           | 2-Spool Control Valve ASM | 10          | 95-8634            | 4           | Link               |
| 2           | 32128-33           | 2           | Nut-HF                    | 11          | 283-16             | 3           | Pin-Clevis         |
| 3           | 233-42             | 1           | Knob                      | 12          | 3272-1             | 3           | Pin-Cotter         |
| 4           | 95-8633            | 1           | Bracket-Valve, Actuator   | 13          | 32151-106          | 2           | Ring-Retaining     |
| 5           | 42-3560            | 2           | Bolt-Shoulder             | 14          | 3230-33            | 2           | Screw-CARR         |
| 6           | 3272-6             | 1           | Pin-Cotter                | 15          | 32128-32           | 3           | Nut-HHF            |
| 7           | 95-8635            | 1           | Lever-Valve               | 16          | 104-0430           | 2           | Stud               |
| 8           | 95-8638            | 1           | Trunnion-Valve, Actuator  | 17          | 121-3570           | 1           | Manifold ASM       |
| 9           | 92-8916            | 1           | Bolt-Shoulder             | 18          | 104-8300           | 2           | Nut-HF, NI         |

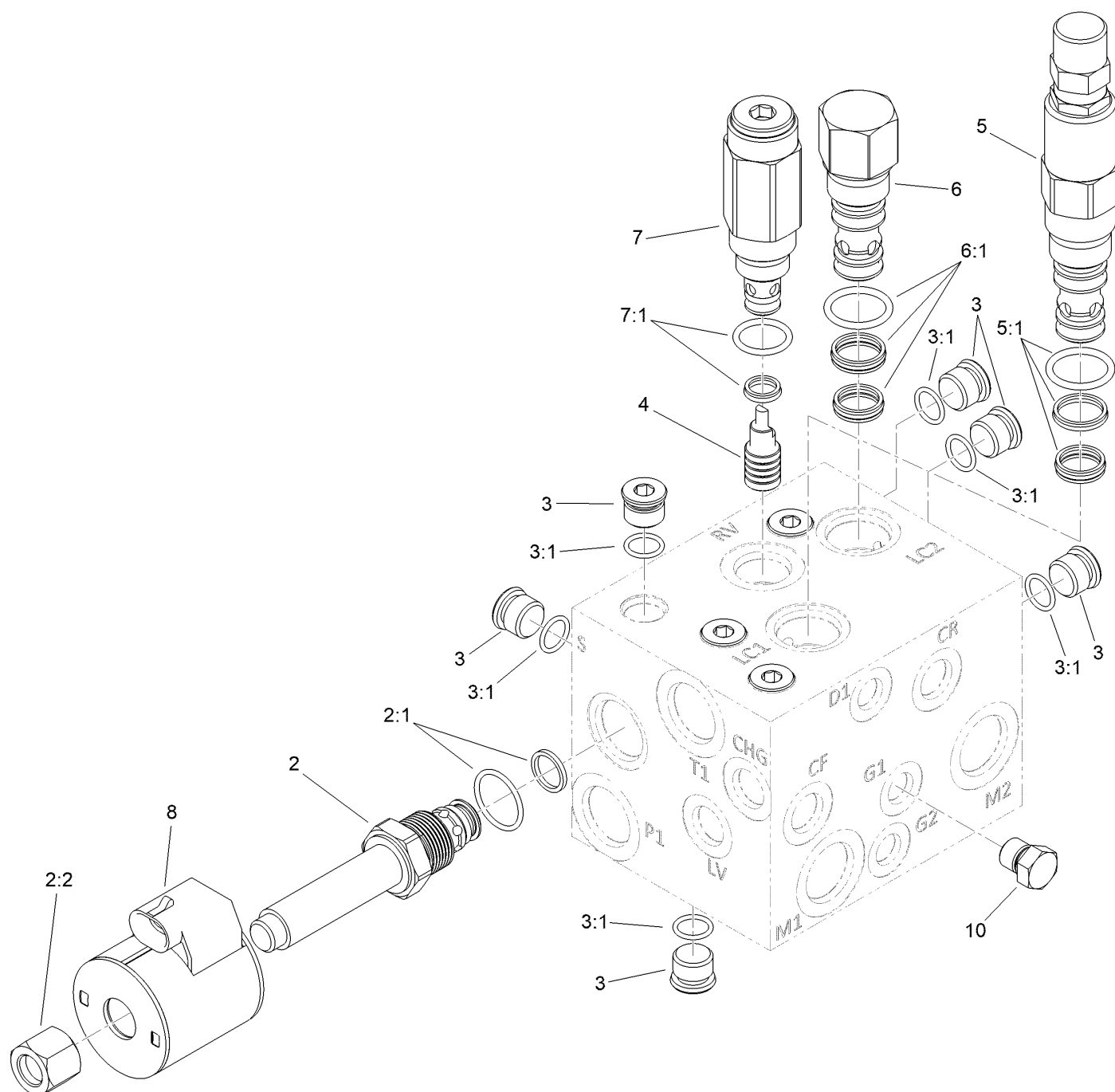
# 2-Spool Control Valve Assembly No. 95-8581



## 2-Spool Control Valve Assembly No. 95-8581 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|--------------------|
| 1           | 58-6290            | 3           | Poppet             | 16          | 99-3531            | 2           | Spring             |
| 2           | 69-1840            | 1           | Plunger            | 17          | 60-6450            | 1           | Disc               |
| 3           | 58-6310            | 2           | Spacer             | 18          | 353-989            | 1           | Plug-Hex, Hollow   |
| 5           | 58-6330            | 3           | Seat               | 18:1        | 237-42             | 1           | O-Ring             |
| 5:1         | 58-6340            | 1           | O-Ring             | 19          | 58-6780            | 1           | Plug               |
| 6           | 58-6350            | 1           | Plug               | 19:1        | 58-6790            | 1           | O-Ring             |
| 6:1         | 60-5720            | 1           | O-Ring             | 20          | 58-6320            | 2           | Wiper              |
| 6:2         | 58-6370            | 1           | Washer             | 21          | 99-3528            | 1           | Plunger            |
| 7           | 69-1800            | 2           | Plug ASM           | 22          | 58-6770            | 1           | Plunger            |
| 7:1         | 60-5720            | 1           | O-Ring             | 23          | 58-6760            | 1           | Spring             |
| 7:2         | 58-6370            | 1           | Washer             | 31          | 99-3530            | 1           | Seal Kit           |
| 8           | 58-6400            | 2           | Bushing            | 31:1        | 58-6290            | 3           | Poppet             |
| 9           | 69-1810            | 3           | Spring             | 31:2        | 58-6450            | 4           | O-Ring             |
| 10          | 58-6420            | 2           | Cap                | 31:3        | 58-6460            | 2           | Ring-Retaining     |
| 12          | 58-6450            | 4           | O-Ring             | 31:4        | 58-6320            | 2           | Wiper              |
| 13          | 58-6460            | 2           | Ring-Retaining     | 31:5        | 58-6790            | 1           | O-Ring             |
| 14          | 65-2770            | 2           | Washer             | 31:6        | 60-5720            | 4           | O-Ring             |
| 15          | 99-3526            | 1           | Plug ASM           | 31:7        | 58-6340            | 2           | O-Ring             |
| 15:1        | 60-5720            | 1           | O-Ring             | 31:8        | 237-42             | 1           | O-Ring             |
| 15:2        | 59-7730            | 1           | Washer-Backup      | 31:9        | 59-7730            | 2           | Washer-Backup      |

# Hydraulic Manifold Assembly No. 121-3570



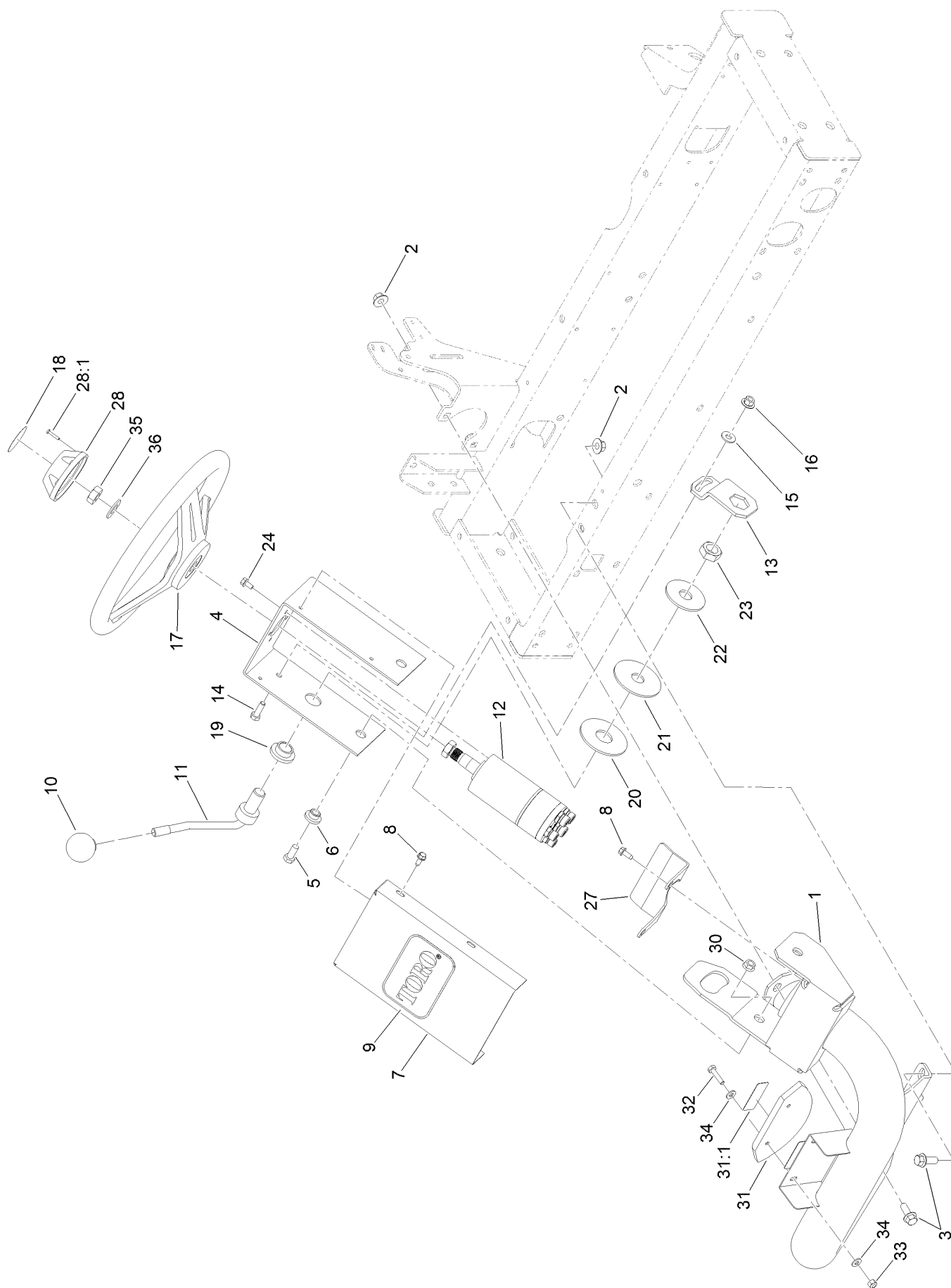
# Hydraulic Manifold Assembly No. 121-3570 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>                |
|-------------|--------------------|-------------|-----------------------------------|
| 2           | 110-8768           | 1           | Valve-Relief, Solenoid (3000 PSI) |
| 2:1         | 110-6316           | 1           | Seal Kit                          |
| 2:2         | 130-8180           | 1           | Nut-Coil (9/16-24 Unef-2B)        |
| 3           | 353-512            | 9           | Plug                              |
| 3:1         | 237-78             | 1           | O-Ring                            |
| 4           | 105-9157           | 1           | Piston-Pilot                      |
| 5           | 119-2011           | 1           | Valve-Logic, Adjustable           |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    |
|-------------|--------------------|-------------|-----------------------|
| 5:1         | 119-2159           | 1           | Seal Kit              |
| 6           | 105-9153           | 1           | Element-Logic, Vented |
| 6:1         | 119-2159           | 1           | Seal Kit ●            |
| 7           | 112-5259           | 1           | Valve-Relief          |
| 7:1         | 105-9156           | 1           | Seal Kit              |
| 8           | 110-6344           | 1           | Coil-12V, DC          |
| 10          | 117-0115           | 1           | Plug                  |

● Not illustrated

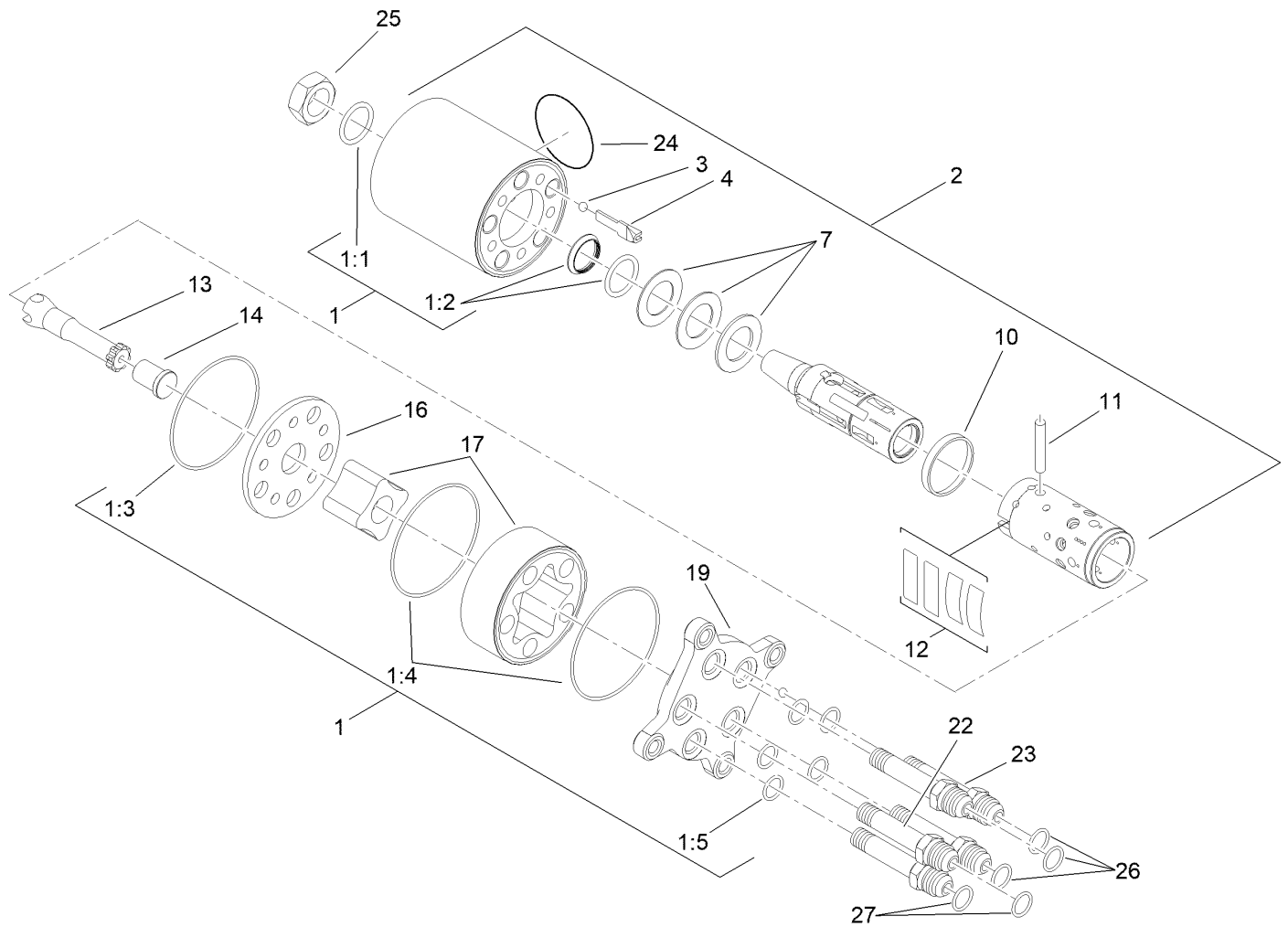
# Steering Column Assembly



## Steering Column Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>      | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>      |
|-------------|--------------------|-------------|-------------------------|-------------|--------------------|-------------|-------------------------|
| 1           | 105-8536-01        | 1           | Arm-Steering            | 19          | 99-3502            | 1           | Boss                    |
| 2           | 32128-43           | 4           | Nut-Flange              | 20          | 31-0390            | 1           | Disc-Friction           |
| 3           | 3234-11            | 4           | Screw-HHF               | 21          | 82-9010            | 1           | Disc-Friction           |
| 4           | 104-5185-01        | 1           | Bracket-Valve, Steering | 22          | 80-2930            | 1           | Washer-Flat             |
| 5           | 323-5              | 2           | Screw-HH                | 23          | 3218-7             | 1           | Nut-Jam                 |
| 6           | 93-5988            | 2           | Hub-Pivot               | 24          | 33103-012          | 4           | Screw-HHF               |
| 7           | 95-8794-01         | 1           | Cover-Valve, Steering   | 27          | 99-3405-01         | 1           | Shield-Steering         |
| 8           | 32144-10           | 5           | Screw-HWH               | 28          | 68-5140            | 1           | Cap-Wheel, Steering     |
| 9           | 67-1300            | 1           | Decal                   | 28:1        | 32144-21           | 1           | Screw                   |
| 10          | 233-48             | 1           | Knob                    | 30          | 32128-21           | 2           | Nut-HF Lock             |
| 11          | 95-8798-03         | 1           | Lever-Steering          | 31          | 100-4929           | 1           | Slope Indicator ASM     |
| 12          | 121-7856           | 1           | Steering Valve ASM      | 31:1        | 121-3628           | 1           | Decal-Angle             |
| 13          | 80-2880            | 1           | Bracket-Tilt            | 31:1        | 121-3598           | 1           | Decal-Danger, 17 Degree |
| 14          | 322-5              | 1           | Screw-HH                | 32          | 321-7              | 2           | Screw-HH                |
| 15          | 3256-3             | 1           | Washer-Flat             | 33          | 3296-42            | 2           | Nut-Lock, NI            |
| 16          | 32128-44           | 1           | Nut                     | 34          | 3256-22            | 4           | Washer-Flat             |
| 17          | 145-0051           | 1           | Steering Wheel          | 35          | 3296-33            | 1           | Nut-Lock, NI            |
| 18          | 68-5370            | 1           | Decal                   | 36          | 3256-27            | 1           | Washer-Flat             |

# Steering Valve Assembly No. 121-7856

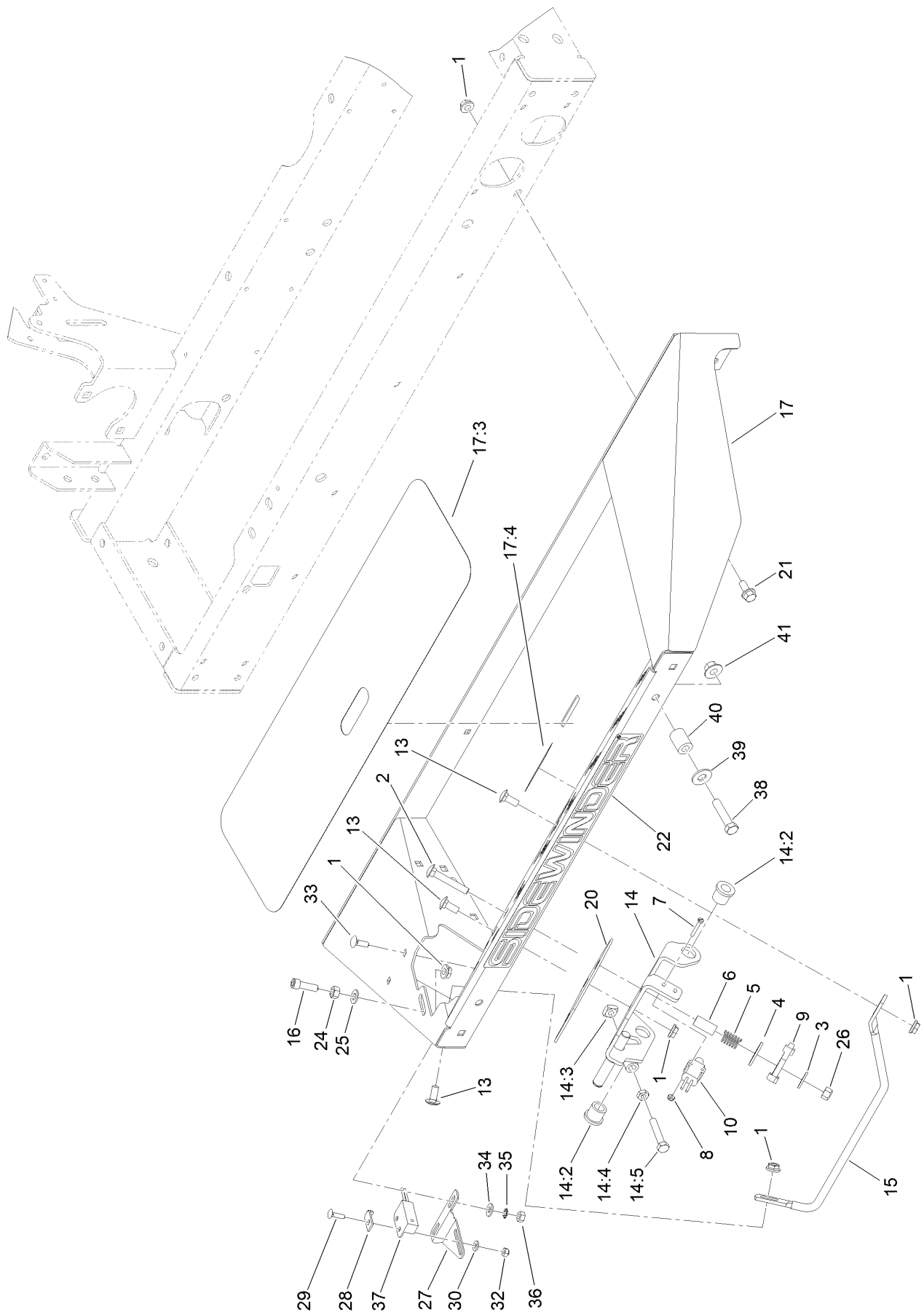


# Steering Valve Assembly No. 121-7856 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>  |
|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|---------------------|
| 1           | 106-6716           | 1           | Seal Kit           | 12          |                    | 1           | Springs ●           |
| 1:1         |                    | 1           | Ring-Seal, Dust ●  | 13          |                    | 1           | Shaft ●             |
| 1:2         |                    | 1           | Seal-Shaft ●       | 14          |                    | 1           | Spacer ●            |
| 1:3         |                    | 1           | O-Ring ●           | 16          |                    | 1           | Plate-Distributor ● |
| 1:4         |                    | 2           | O-Ring ●           | 17          |                    | 1           | Gearwheel Set ●     |
| 1:5         |                    | 5           | O-Ring ●           | 19          |                    | 1           | Cover-End ●         |
| 2           |                    | 1           | Housing ●          | 22          |                    | 1           | Screw-Special ●     |
| 3           |                    | 1           | Ball ●             | 23          |                    | 4           | Screw-Special ●     |
| 4           |                    | 1           | Stop-Ball ●        | 24          |                    | 1           | Plate-Name ●        |
| 7           |                    | 1           | Bearing ASM ●      | 25          | 3296-33            | 1           | Nut-Lock, NI        |
| 10          |                    | 1           | Ring ●             | 26          | 237-22             | 3           | O-Ring              |
| 11          |                    | 1           | Pin-Cross ●        | 27          | 237-21             | 2           | O-Ring              |

● Not serviced separately

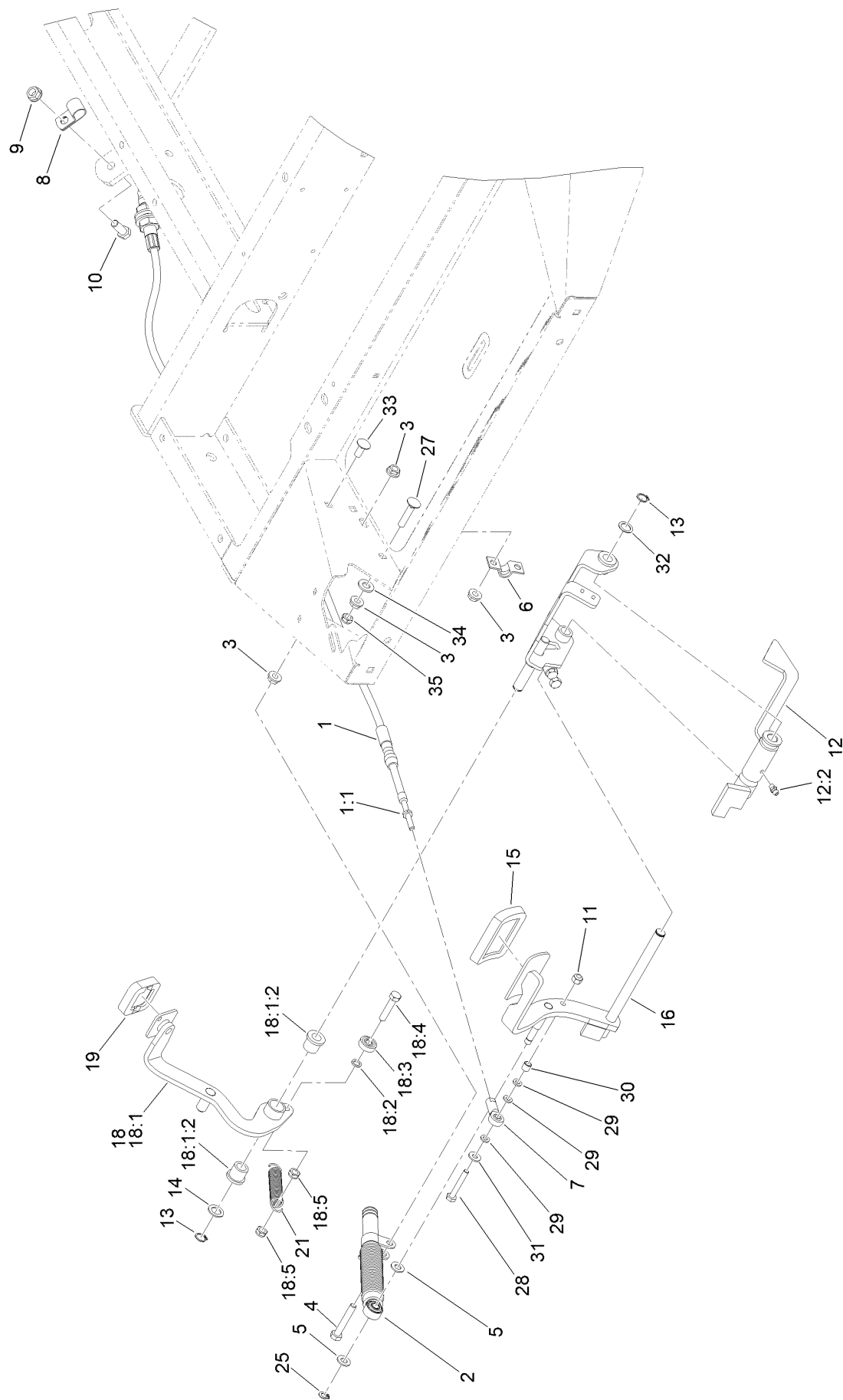
# Floorplate Assembly



## Floorplate Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>      |
|-------------|--------------------|-------------|-----------------------|-------------|--------------------|-------------|-------------------------|
| 1           | 32128-20           | 15          | Nut-HF                | 20          | 106-2661-0P        | 1           | Plate-Support           |
| 2           | 3230-6             | 1           | Bolt-CARR             | 21          | 3234-5             | 10          | Screw-HHF               |
| 3           | 3256-3             | 1           | Washer-Flat           | 22          | 99-3388            | 1           | Decal                   |
| 4           | 3256-40            | 1           | Washer-Flat           | 24          | 3217-6             | 1           | Nut-Hex                 |
| 5           | 65-9940            | 1           | Spring                | 25          | 3256-23            | 1           | Washer-Plain            |
| 6           | 95-8866            | 1           | Tube-Arm, Rocker      | 26          | 3296-29            | 1           | Nut-Lock, NI            |
| 7           | 32105-9            | 2           | Screw-HH              | 27          | 100-4871           | 1           | Bracket-Switch, Neutral |
| 8           | 3296-9             | 2           | Nut-Hex               | 28          | 100-4872           | 1           | Plate-Switch, Neutral   |
| 9           | 99-3593            | 1           | Arm-Rocker            | 29          | 3229-20            | 1           | Screw-CARR              |
| 10          | 95-8900            | 1           | Switch                | 30          | 3256-14            | 1           | Washer-Flat             |
| 13          | 3230-23            | 4           | Bolt-CARR             | 32          | 3296-2             | 1           | Nut-Lock, NI            |
| 14          | 140-6253           | 1           | Traction Bracket ASM  | 33          | 3229-1             | 2           | Screw-CARR              |
| 14:2        | 256-243            | 2           | Bearing-Flange        | 34          | 3256-22            | 2           | Washer-Flat             |
| 14:3        | 99-3565            | 1           | Nut-Square            | 35          | 3255-7             | 2           | Washer-Lock/EXT         |
| 14:4        | 3218-2             | 1           | Nut-Hex Jam           | 36          | 3217-5             | 2           | Nut-Hex                 |
| 14:5        | 322-41             | 1           | Bolt-Hex,TAP          | 37          | 100-1270           | 1           | Switch-Proximity        |
| 15          | 95-8893            | 1           | Bar-Deflector         | 38          | 323-9              | 2           | Screw-HH                |
| 16          | 3274-22            | 1           | Screw-HSH             | 39          | 3256-4             | 2           | Washer-Flat             |
| 17          | 106-4154           | 1           | Floorplate ASM        | 40          | 104-4613           | 2           | Tube-Latch              |
| 17:3        | 99-3478            | 1           | Tread-Foot            | 41          | 32128-43           | 2           | Nut-Flange              |
| 17:4        | 99-3444            | 1           | Decal-Mow / Transport |             |                    |             |                         |

# Traction Pedal Assembly

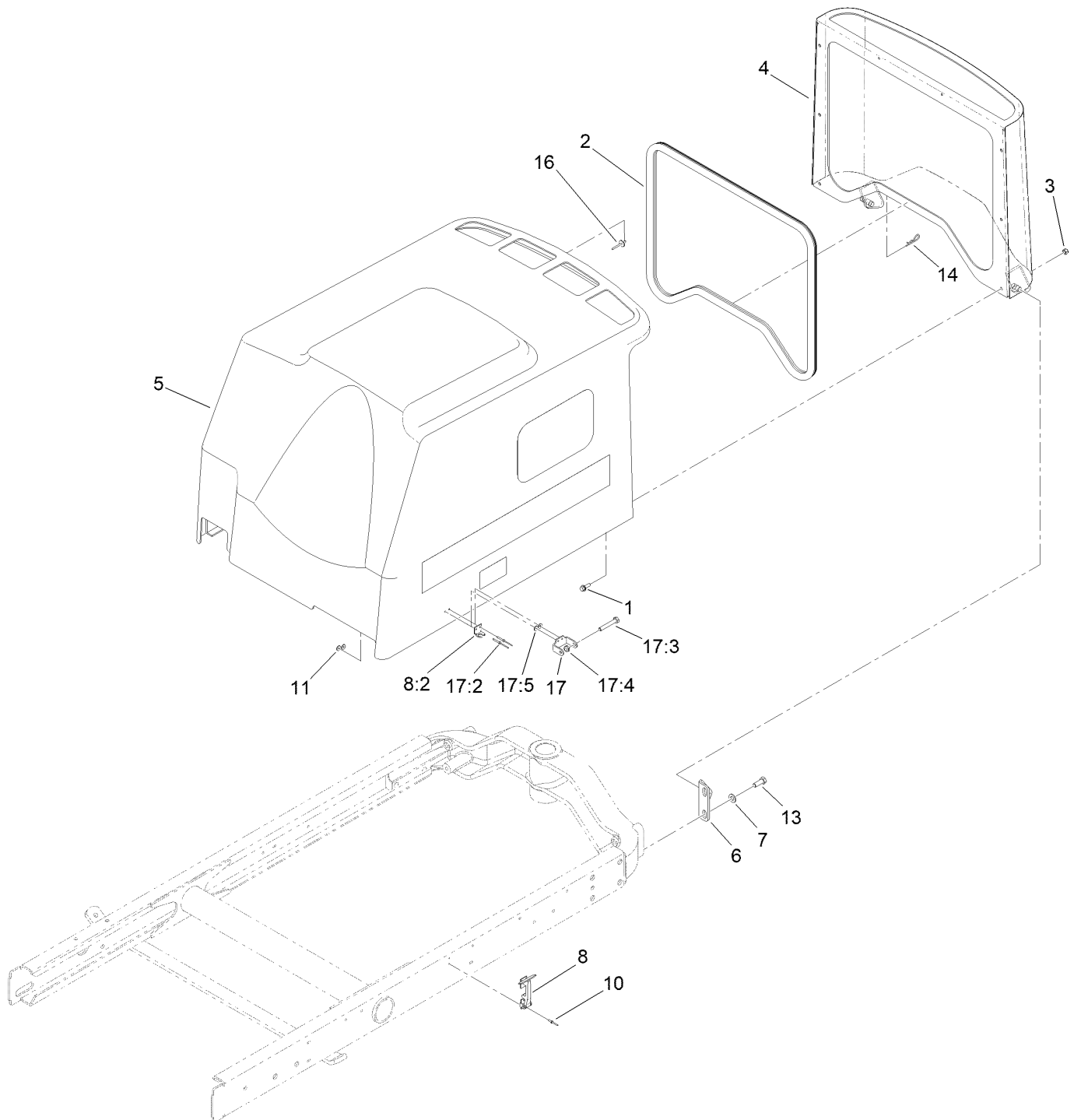


## Traction Pedal Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>      | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|-------------------------|-------------|--------------------|-------------|--------------------|
| 1           | 100-4815           | 1           | Cable-Control, Traction | 18:1        |                    | 1           | Reverse Pedal ASM  |
| 1:1         | 3220-1             | 2           | Nut-Jam                 |             |                    |             | W/Bushings ●       |
| 2           | 140-6248           | 1           | Damper                  | 18:1:2      | 256-243            | 2           | Bearing-Flange     |
| 3           | 32128-20           | 5           | Nut-HF                  | 18:2        | 75-5470            | 1           | Spacer-Bearing     |
| 4           | 322-10             | 1           | Screw-HH                | 18:3        | 251-259            | 1           | Bearing-Ball       |
| 5           | 3256-23            | 2           | Washer-Plain            | 18:4        | 322-7              | 1           | Screw-HH           |
| 6           | 93-2092            | 1           | Clamp-Cable             | 18:5        | 3296-47            | 2           | Nut-Lock,NI        |
| 7           | 2411-41            | 1           | Rod End-Ball Joint      | 19          | 74-9110            | 1           | Pad-Pedal, Reverse |
| 8           | 2412-41            | 1           | Clamp-R                 | 21          | 99-3476            | 1           | Spring-Extension   |
| 9           | 3290-357           | 1           | Nut-HSF                 | 25          | 32151-3            | 1           | Ring-Grip          |
| 10          | 323-6              | 1           | Screw-HH                | 27          | 3230-27            | 1           | Screw-CARR         |
| 11          | 3296-42            | 1           | Nut-Lock, NI            | 28          | 321-10             | 1           | Screw-HH           |
| 12          | 140-6255           | 1           | Detent Slider ASM       | 29          | 33093-00           | 3           | Washer-Flat        |
| 12:2        | 302-5              | 1           | Fitting-Grease          | 30          | 99-3545            | 1           | Spacer             |
| 13          | 32151-84           | 2           | Ring-Shaft, EXT         | 31          | 3256-22            | 1           | Washer-Flat        |
| 14          | 41-8440            | 1           | Washer                  | 32          | 73-0040            | 4           | Washer-Thrust      |
| 15          | 74-9100            | 1           | Pad-Pedal, Forward      | 33          | 3230-23            | 2           | Bolt-CARR          |
| 16          | 140-6263           | 1           | Traction Pedal ASM      | 34          | 3256-24            | 1           | Washer-Plain       |
| 18          | 140-6251           | 1           | Reverse Pedal ASM       | 35          | 3296-47            | 1           | Nut-Lock,NI        |

● Not serviced separately

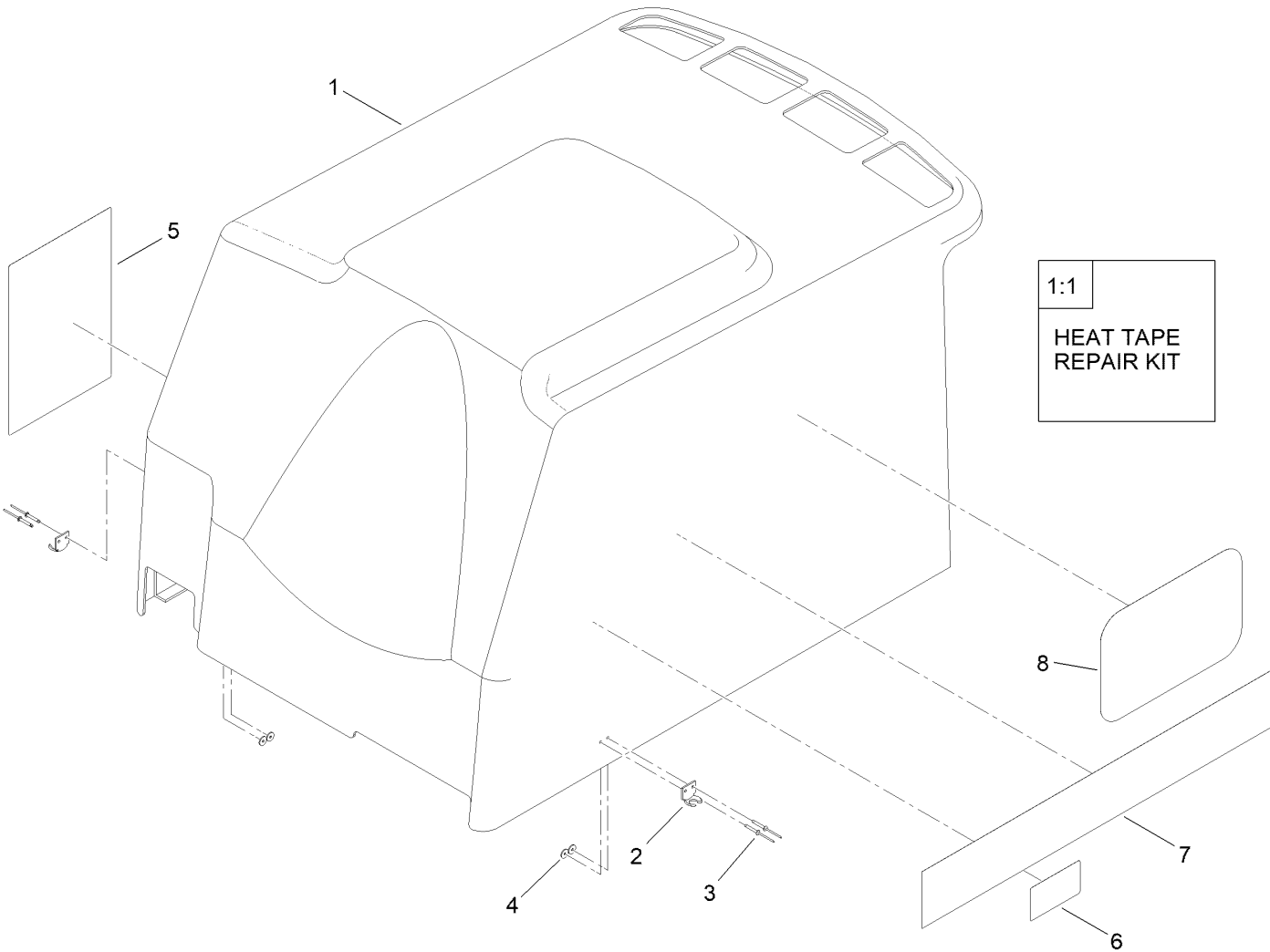
# Hood Assembly



## Hood Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>  | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|---------------------|-------------|--------------------|-------------|--------------------|
| 1           | 3234-4             | 6           | Screw-HHF           | 11          | 3269-10            | 4           | Washer-Back        |
| 2           | 100-4932           | 1           | Trim-Seal           | 13          | 323-6              | 4           | Screw-HH           |
| 3           | 3296-42            | 6           | Nut-Lock, NI        | 14          | 3290-467           | 1           | Pin-Hair           |
| 4           | 104-4853-03        | 1           | Screen-Hood         | 16          | 3269-21            | 2           | Rivet-Pop          |
| 5           | 121-3631           | 1           | Hood ASM            | 17          | 119-2004           | 1           | CE Latch Kit       |
| 6           | 95-8728            | 2           | Bracket-Pivot, Hood | 17:2        | 107-0333           | 2           | Rivet-Pop          |
| 7           | 3256-24            | 4           | Washer-Plain        | 17:3        | 322-10             | 1           | Screw-HH           |
| 8           | 59-9740            | 2           | Flex Draw Latch ASM | 17:4        | 3296-47            | 1           | Nut-Lock,NI        |
| 8:2         | 249-40             | 1           | Keeper              | 17:5        | 3269-10            | 2           | Washer-Back        |
| 10          | 3290-55            | 4           | Rivet-Pop           |             |                    |             |                    |

# Hood Assembly No. 121-3631



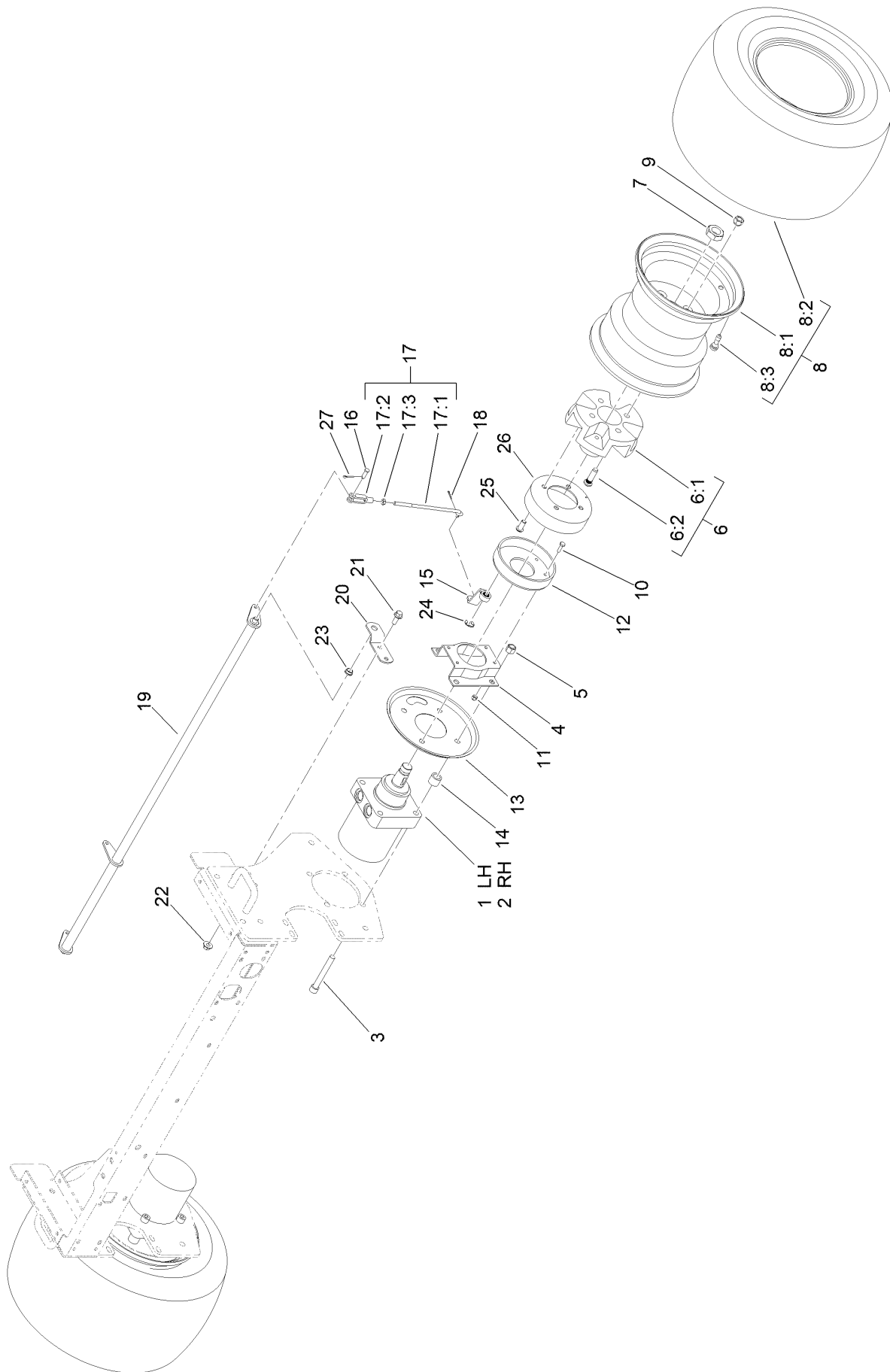
## Hood Assembly No. 121-3631 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>   |
|-------------|--------------------|-------------|----------------------|
| 1           |                    | 1           | Hood ●               |
| 1:1         | 106-8115           | 1           | Heat Tape Repair Kit |
| 2           | 249-40             | 2           | Keeper               |
| 3           | 107-0333           | 4           | Rivet-Pop            |
| 4           | 3269-10            | 4           | Washer-Back          |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 5           | 136-3713           | 1           | Decal-Service      |
| 6           | 117-3270           | 1           | Decal-Danger       |
| 7           | 104-5152           | 2           | Decal-Hood         |
| 8           | 66-6140            | 2           | Decal              |

● Not serviced separately

# Wheel Motor and Brake Assembly

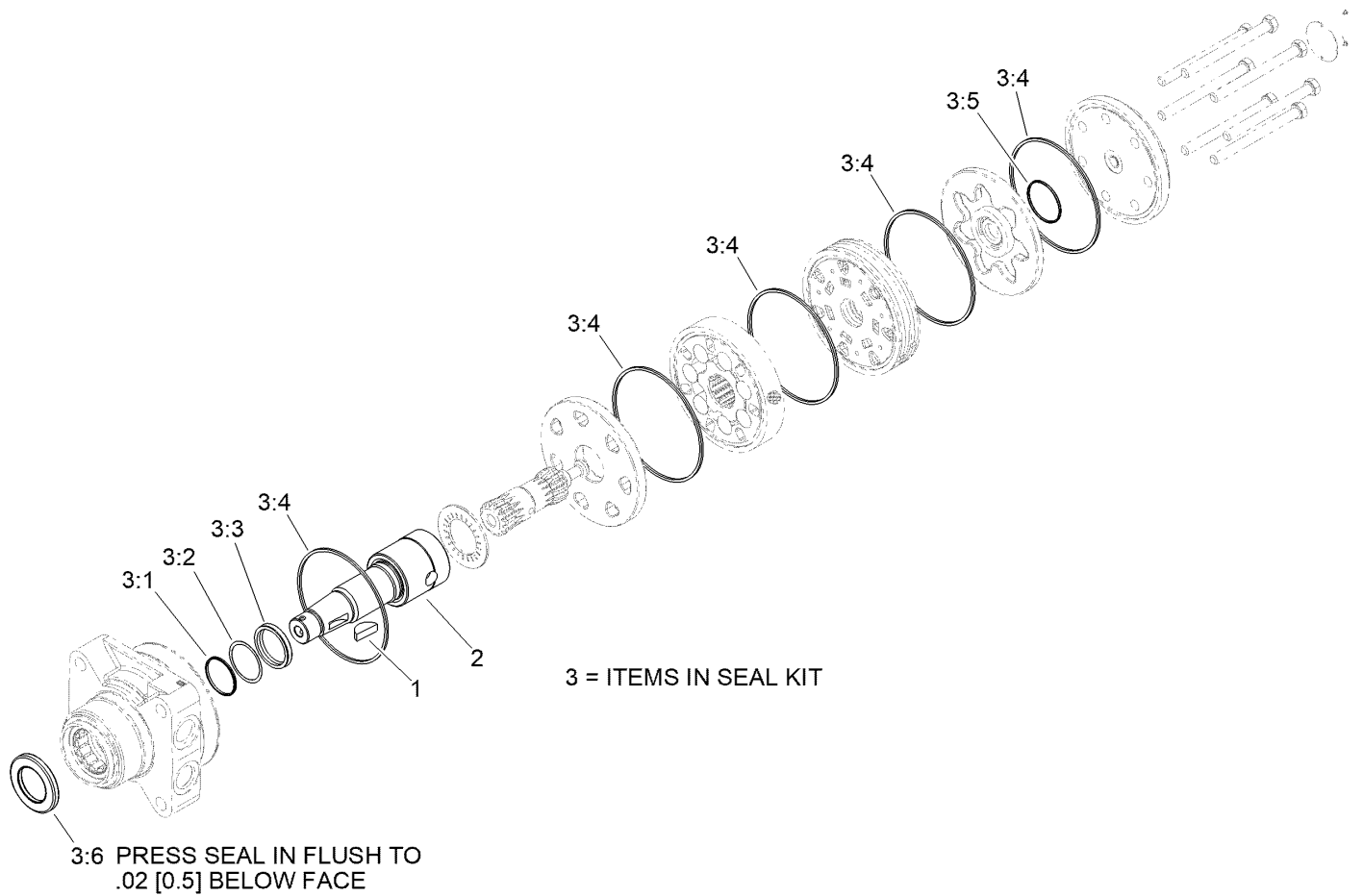


## Wheel Motor and Brake Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>   | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>   |
|-------------|--------------------|-------------|----------------------|-------------|--------------------|-------------|----------------------|
| 1           | 110-8785           | 1           | HYD Motor ASM (CCW)  | 14          | 119-8238           | 8           | Spacer-Deck Pulley   |
| 2           | 110-8786           | 1           | HYD Motor ASM (CW)   | 15          | 114-2726           | 2           | Lever-Brake          |
| 3           | 3274-99            | 8           | Screw-HSH            | 16          | 283-1              | 2           | Pin-Clevis           |
| 4           | 84-2000-0P         | 2           | Bracket-Brake        | 17          | 115-6672           | 2           | Brake Lever ASM      |
| 5           | 3296-23            | 8           | Nut-Lock, NI         | 17:1        | 104-4627           | 1           | Rod-Adjusting        |
| 6           |                    | 2           | Wheel Hub/Stud ASM ● | 17:2        | 1-303105           | 1           | Yoke-Adjustable      |
| 6:1         | 104-0462           | 1           | Hub-Wheel, Spacer    | 17:3        | 3220-2             | 1           | Nut-Jam              |
| 6:2         | 10-6830            | 4           | Stud-Type, Drive     | 18          | 3272-6             | 2           | Pin-Cotter           |
| 7           | 26-3790            | 2           | Nut-Lock             | 19          | 104-4625-03        | 1           | Shaft-Pivot, Brake   |
| 8           |                    | 2           | Tire And Rim ASM ●   | 20          | 95-8683            | 2           | Bracket-Pivot, Brake |
| 8:1         | 121-3548           | 1           | Rim                  | 21          | 3234-11            | 4           | Screw-HHF            |
| 8:2         | 117-5125           | 1           | Tire                 | 22          | 32128-43           | 4           | Nut-Flange           |
| 8:3         | 232-27             | 1           | Stem-Valve           | 23          | 256-156            | 2           | Bushing-Flange       |
| 9           | 242-50             | 8           | Nut-Lug              | 24          | 104-7706           | 2           | E-Ring, Bowed        |
| 10          | 321-5              | 8           | Screw-HH             | 25          | 3274-105           | 8           | Screw-HSBH           |
| 11          | 3296-42            | 8           | Nut-Lock, NI         | 26          | 104-4809           | 2           | Drum-Brake           |
| 12          | 104-7705           | 2           | Brake ASM            | 27          | 3272-10            | 2           | Pin-Cotter           |
| 13          | 104-0485-0P        | 2           | Shield-Wheel         |             |                    |             |                      |

● Not serviced separately

# Hydraulic Motor Assembly No. 110-8785



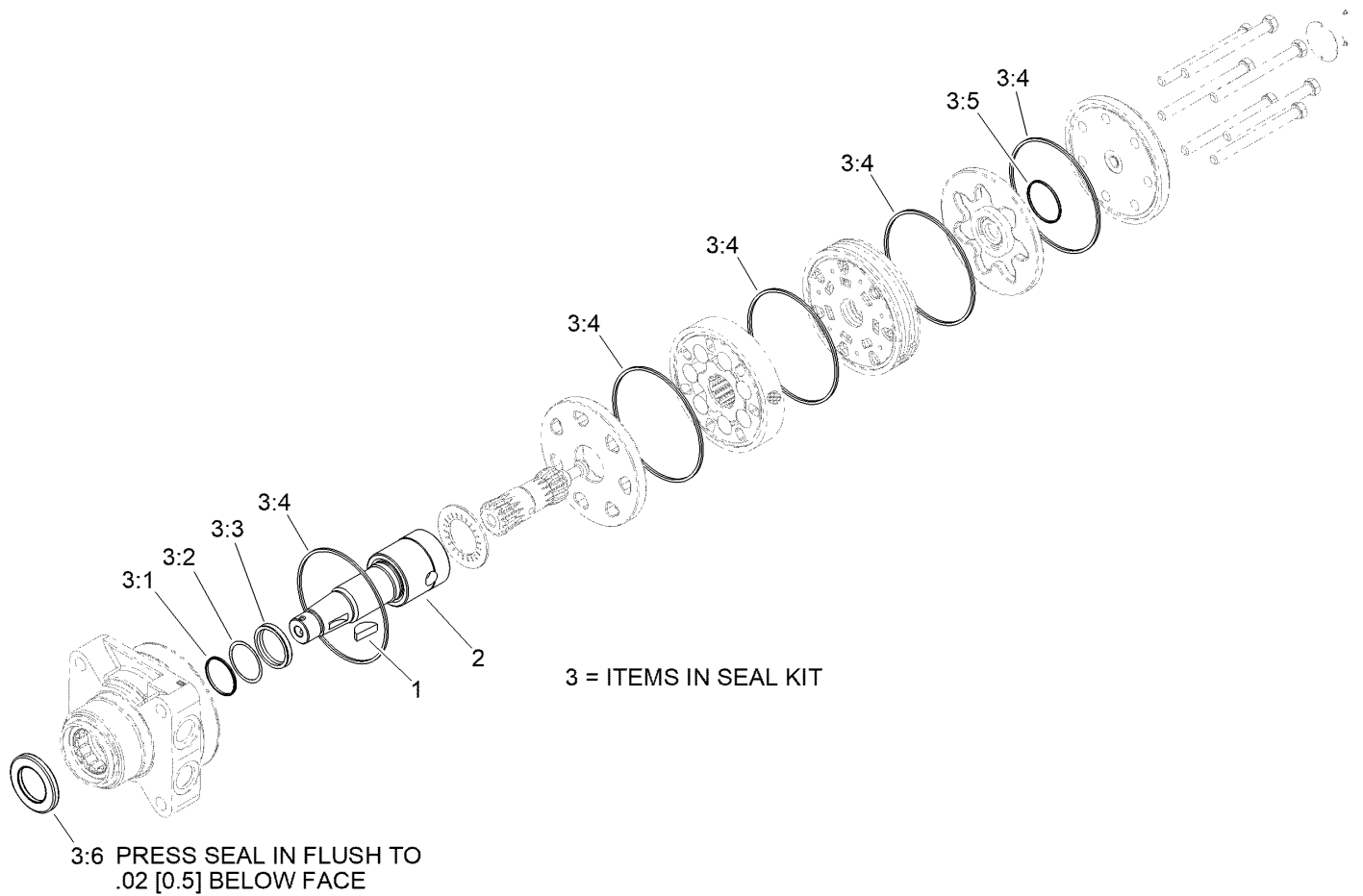
# Hydraulic Motor Assembly No. 110-8785 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 3257-42            | 1           | Key-Woodruff       |
| 2           | 99-3090            | 1           | Shaft-Coupling     |
| 3           | 100-6131           | 1           | Seal Kit           |
| 3:1         |                    | 1           | Ring-Back Up ●     |
| 3:2         |                    | 1           | Washer-Back Up ●   |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    |
|-------------|--------------------|-------------|-----------------------|
| 3:3         |                    | 1           | Seal-Shaft ●          |
| 3:4         |                    | 5           | Seal-Ring ●           |
| 3:5         |                    | 1           | Seal-Commutator ●     |
| 3:6         |                    | 1           | Seal-Dirt And Water ● |

● Not serviced separately

# Hydraulic Motor Assembly No. 110-8786



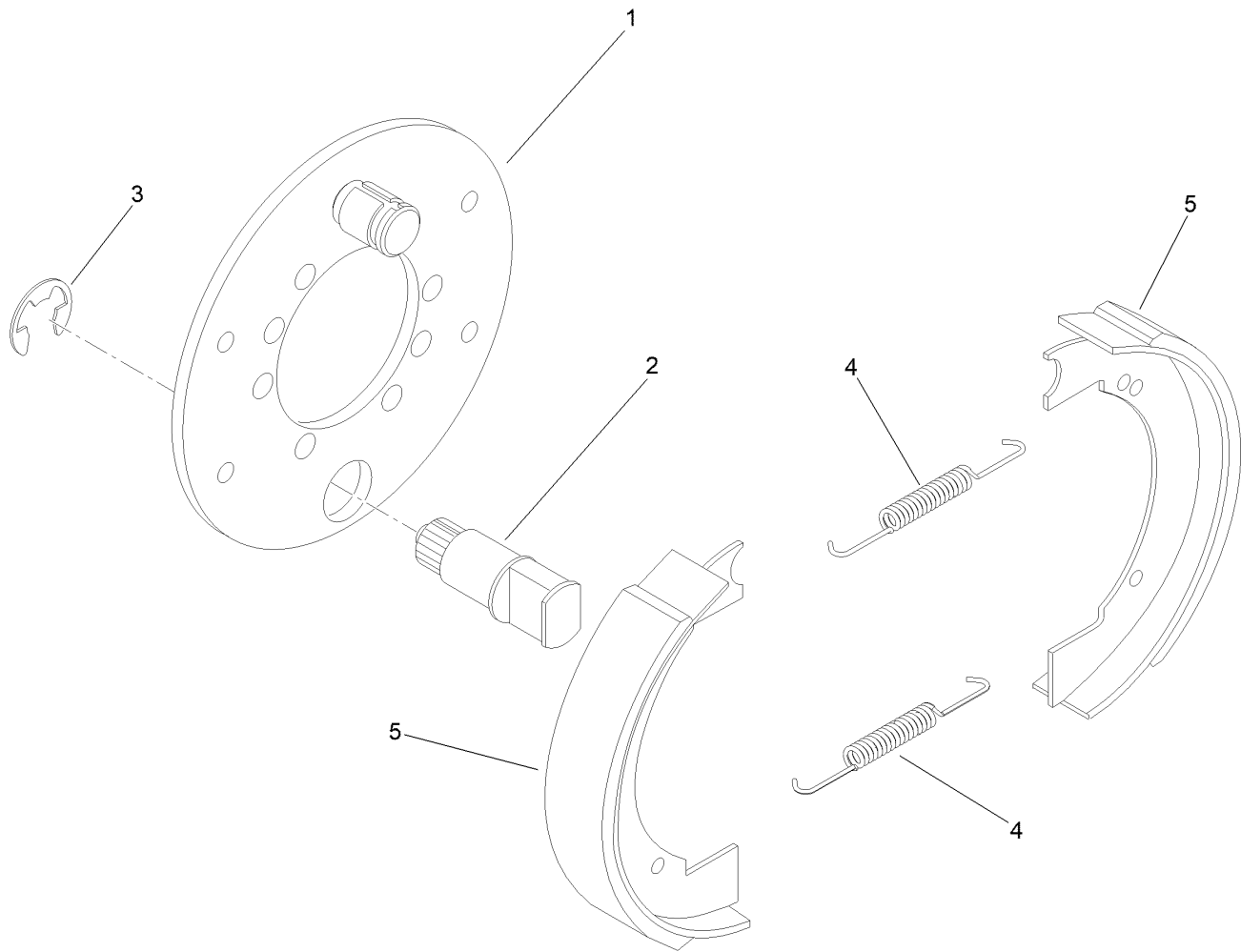
# Hydraulic Motor Assembly No. 110-8786 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 3257-42            | 1           | Key-Woodruff       |
| 2           | 99-3090            | 1           | Shaft-Coupling     |
| 3           | 100-6131           | 1           | Seal Kit           |
| 3:1         |                    | 1           | Ring-Back Up ●     |
| 3:2         |                    | 1           | Washer-Back Up ●   |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    |
|-------------|--------------------|-------------|-----------------------|
| 3:3         |                    | 1           | Seal-Shaft ●          |
| 3:4         |                    | 5           | Seal-Ring ●           |
| 3:5         |                    | 1           | Seal-Commutator ●     |
| 3:6         |                    | 1           | Seal-Dirt And Water ● |

● Not serviced separately

# Brake Assembly No. 104-7705

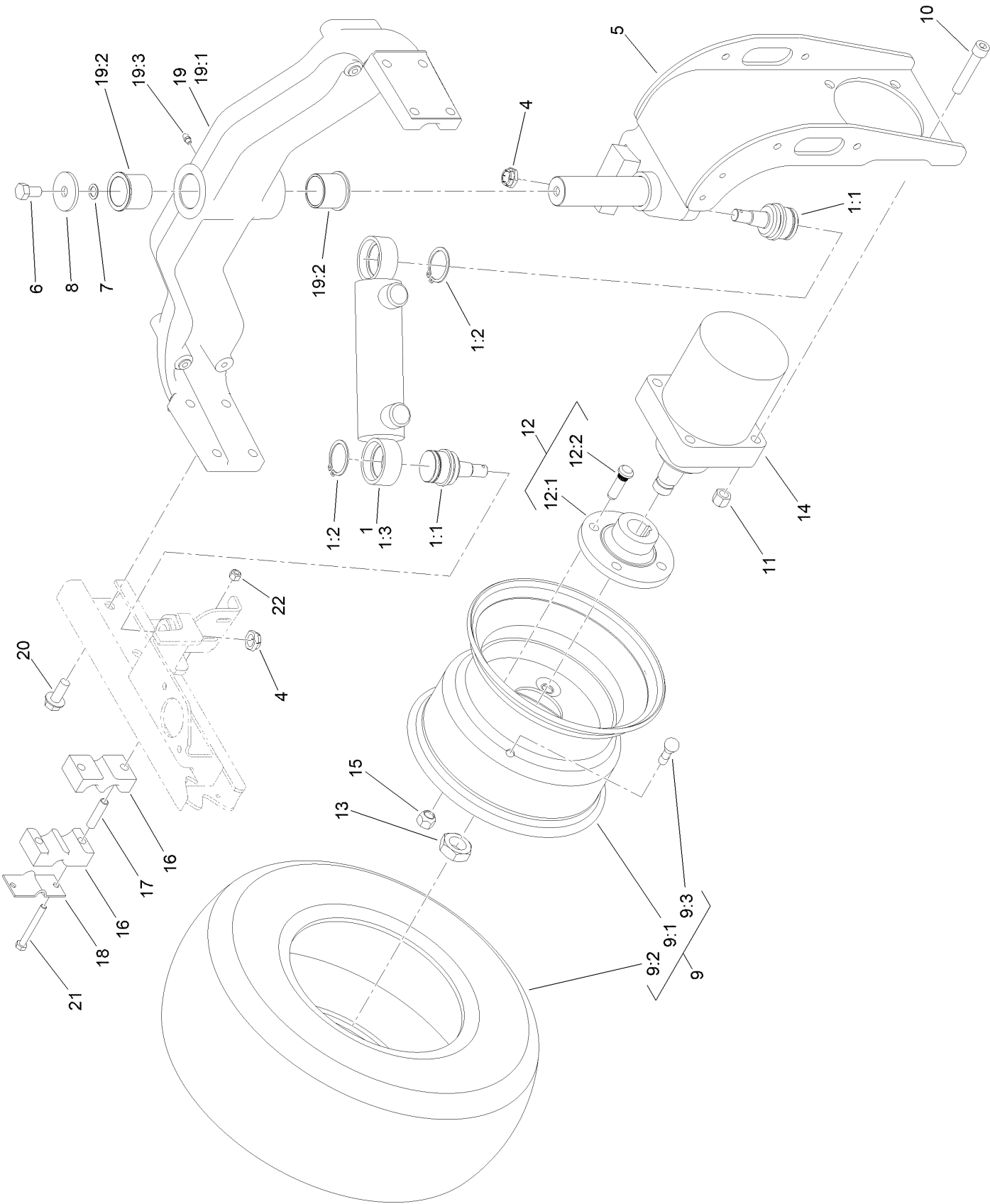


## Brake Assembly No. 104-7705 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 70-9870            | 1           | Plate-Backing      |
| 2           | 104-7707           | 1           | Shaft-Cam, Brake   |
| 3           | 104-7706           | 1           | E-Ring, Bowed      |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 4           | 70-9880            | 2           | Spring-Return      |
| 5           | 70-9840            | 2           | Shoe-Brake         |

Rear Fork and Tire Assembly

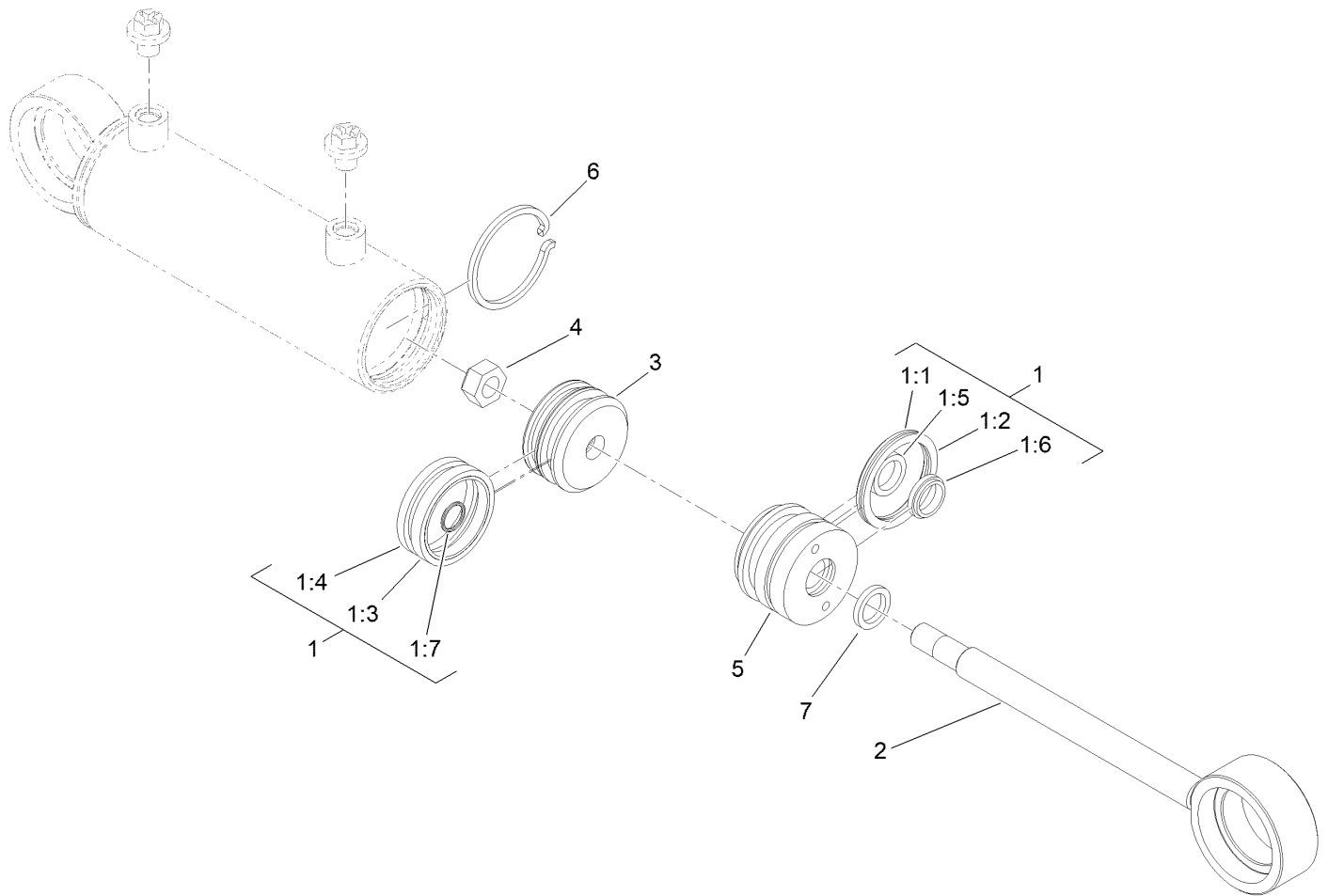


## Rear Fork and Tire Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>       | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------------|-------------|--------------------|-------------|--------------------|
| 1           |                    | 1           | Steering Cylinder ASM ●  | 12:1        | 10-6870-03         | 1           | Hub-Wheel          |
| 1:1         | 121-3605           | 2           | Ball Joint               | 12:2        | 10-6830            | 4           | Stud-Type, Drive   |
| 1:2         | 32151-104          | 2           | Ring-Retaining, External | 13          | 26-3790            | 1           | Nut-Lock           |
| 1:3         | 121-3653           | 1           | Cylinder-HYD             | 14          | 95-8694            | 1           | HYD Motor ASM      |
| 4           | 121-3611           | 2           | Nut-Hex, Flextop         | 15          | 242-50             | 4           | Nut-Lug            |
| 5           | 136-3812-01        | 1           | Fork-Rear                | 16          | 82-8170            | 2           | Clamp              |
| 6           | 325-3              | 1           | Screw-HH                 | 17          | 93-7960            | 2           | Spacer             |
| 7           | 3255-2             | 1           | Washer-Lock, EXT         | 18          | 93-7961            | 1           | Clamp-Drain, Case  |
| 8           | 75-7730            | 1           | Washer-Thrust            | 19          | 127-8576           | 1           | Rear Casting ASM   |
| 9           |                    | 1           | Wheel And Tire ASM ●     | 19:1        |                    | 1           | Casting-Rear ●     |
| 9:1         | 117-5129           | 1           | Rim                      | 19:2        | 127-8572           | 2           | Bushing-Flange     |
| 9:2         | 115-1572           | 1           | Tire                     | 19:3        | 302-5              | 1           | Fitting-Grease     |
| 9:3         | 232-27             | 1           | Stem-Valve               | 20          | 3234-38            | 8           | Screw-HHF          |
| 10          | 3274-93            | 4           | Screw-HSH                | 21          | 322-13             | 2           | Screw-HH           |
| 11          | 3296-23            | 4           | Nut-Lock, NI             | 22          | 3296-29            | 2           | Nut-Lock, NI       |
| 12          |                    | 1           | Wheel Hub/Stud ASM ●     |             |                    |             |                    |

● Not serviced separately

# Hydraulic Cylinder Assembly No. 121-3653



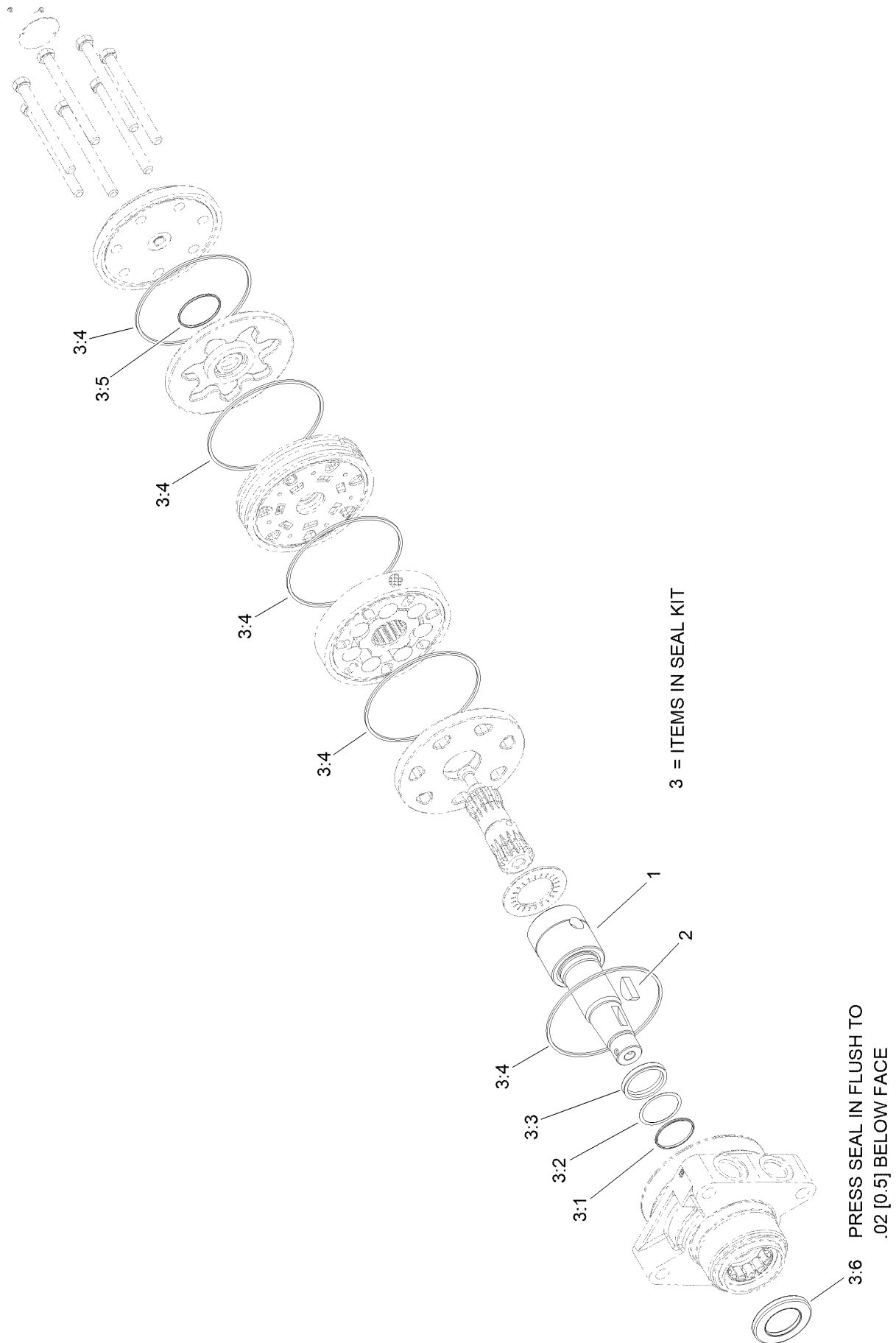
# Hydraulic Cylinder Assembly No. 121-3653 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 136-3278           | 1           | Seal Kit           |
| 1:1         |                    | 1           | O-Ring ●           |
| 1:2         |                    | 1           | Backup ●           |
| 1:3         |                    | 1           | Psp Seal ●         |
| 1:4         |                    | 1           | Wear Ring ●        |
| 1:5         |                    | 1           | Bt Seal ●          |
| 1:6         |                    | 1           | Dust Seal ●        |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1:7         |                    | 1           | O-Ring ●           |
| 2           |                    | 1           | Rod ●              |
| 3           |                    | 1           | Piston ●           |
| 4           |                    | 1           | Head ●             |
| 5           |                    | 1           | Lock Nut ●         |
| 6           |                    | 1           | Retaining Ring ●   |
| 7           |                    | 1           | Square O-Ring ●    |

● Not serviced separately

# Hydraulic Motor Assembly No. 95-8694



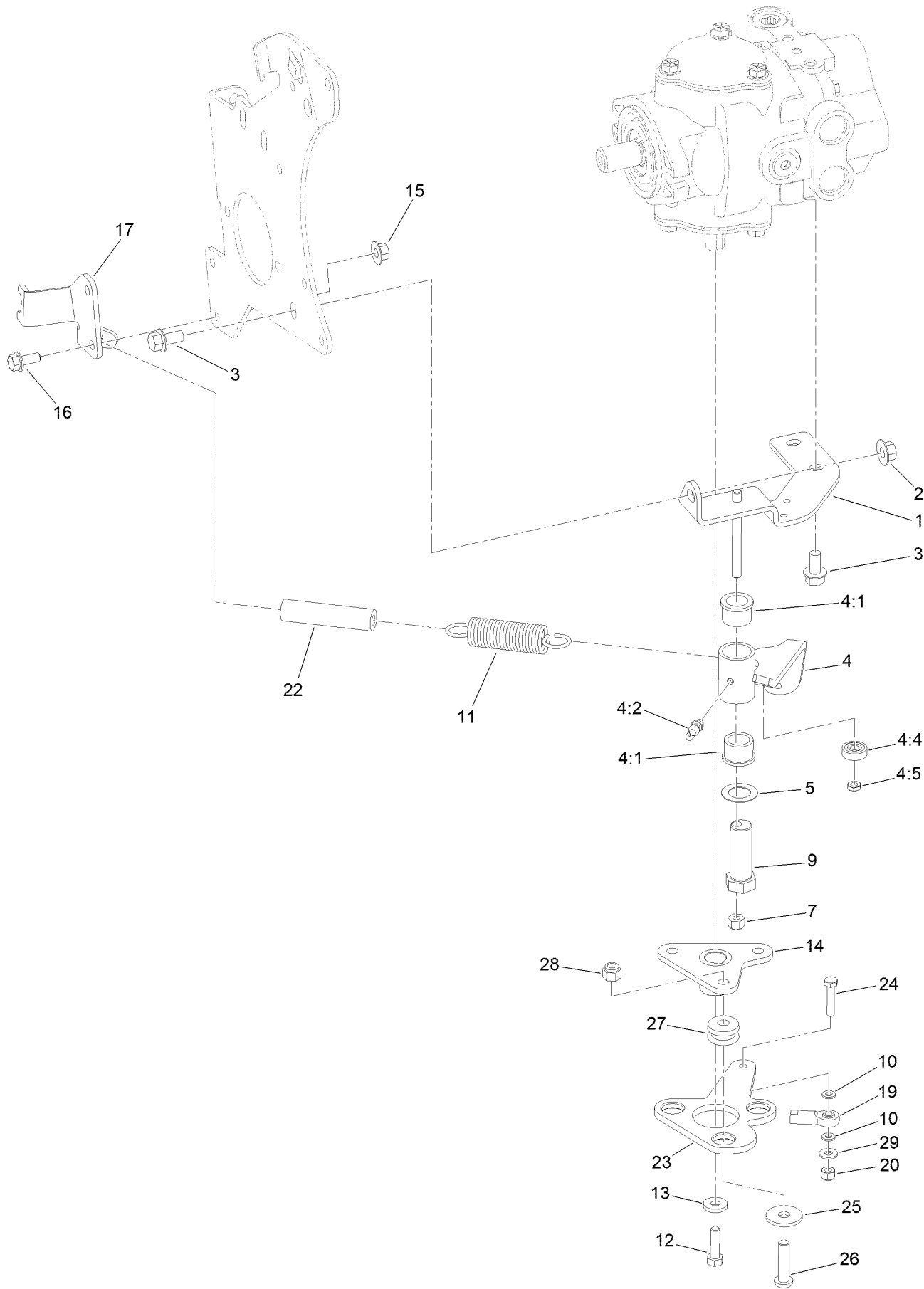
# Hydraulic Motor Assembly No. 95-8694 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 99-3090            | 1           | Shaft-Coupling     |
| 2           | 3257-42            | 1           | Key-Woodruff       |
| 3           | 100-6131           | 1           | Seal Kit           |
| 3:1         |                    | 1           | Ring-Back Up ●     |
| 3:2         |                    | 1           | Washer-Back Up ●   |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    |
|-------------|--------------------|-------------|-----------------------|
| 3:3         |                    | 1           | Seal-Shaft ●          |
| 3:4         |                    | 5           | Seal-Ring ●           |
| 3:5         |                    | 1           | Seal-Commutator ●     |
| 3:6         |                    | 1           | Seal-Dirt And Water ● |

● Not serviced separately

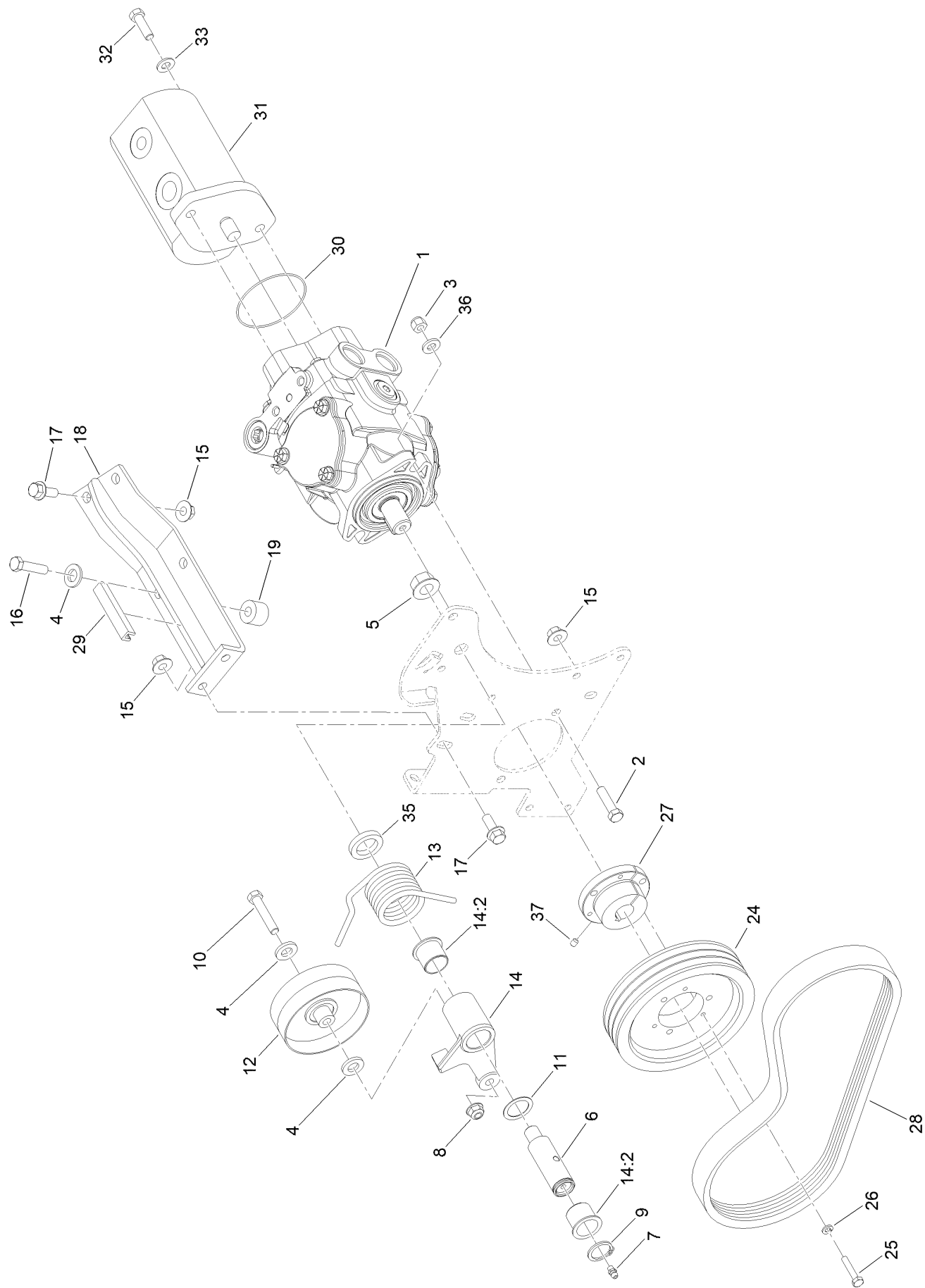
# Neutral Arm Assembly



## Neutral Arm Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>     |
|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|------------------------|
| 1           | 95-8960-0P         | 1           | Bracket-Neutral    | 14          | 120-5566           | 1           | Hub                    |
| 2           | 32128-43           | 1           | Nut-Flange         | 15          | 32128-44           | 2           | Nut                    |
| 3           | 3234-1             | 3           | Screw-HHF          | 16          | 3234-5             | 2           | Screw-HHF              |
| 4           | 140-6168           | 1           | Neutral Arm ASM    | 17          | 104-0464-03        | 1           | Bracket-Support, Cable |
| 4:1         | 256-113            | 2           | Bushing-Flange     | 19          | 2411-41            | 1           | Rod End-Ball Joint     |
| 4:2         | 302-60             | 1           | Fitting-Grease     | 20          | 3296-42            | 1           | Nut-Lock, NI           |
| 4:4         | 251-259            | 1           | Bearing-Ball       | 22          | 99-3556            | 1           | Hose                   |
| 4:5         | 3296-47            | 1           | Nut-Lock,NI        | 23          | 99-3594-0P         | 1           | Lever-Pump             |
| 5           | 3-6498             | 1           | Washer-Thrust      | 24          | 321-8              | 1           | Screw-HH               |
| 7           | 3296-29            | 1           | Nut-Lock, NI       | 25          | 2844               | 3           | Washer                 |
| 9           | 76-8640            | 1           | Stud-Traction      | 26          | 95-3857            | 3           | Screw-HSBH             |
| 10          | 33093-00           | 2           | Washer-Flat        | 27          | 63-9750            | 3           | Mount                  |
| 11          | 145-5262           | 1           | Spring-Extension   | 28          | 3296-39            | 3           | Nut-Lock, NI           |
| 12          | 3210-6             | 1           | Screw-HH           | 29          | 3256-22            | 1           | Washer-Flat            |
| 13          | 88-7200            | 1           | Washer-Flat        |             |                    |             |                        |

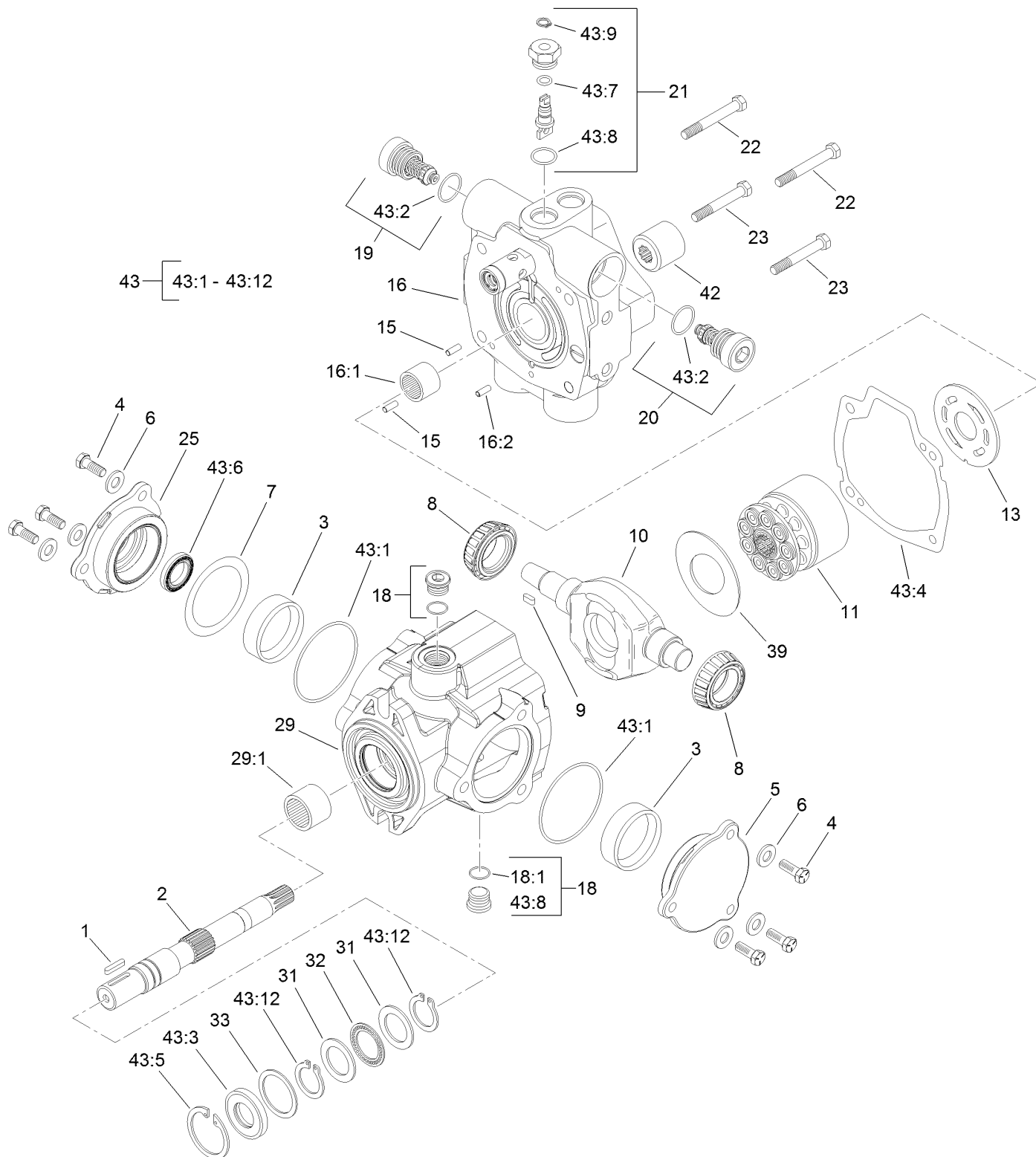
# Gear Pump and Piston Pump Assembly



## Gear Pump and Piston Pump Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>  |
|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|---------------------|
| 1           | 104-4890           | 1           | Piston Pump ASM    | 17          | 3234-11            | 4           | Screw-HHF           |
| 2           | 323-8              | 2           | Screw-HH           | 18          | 99-3436-0P         | 1           | Support-Pump        |
| 3           | 3296-39            | 2           | Nut-Lock, NI       | 19          | 99-3440            | 2           | Spacer              |
| 4           | 3256-24            | 4           | Washer-Plain       | 24          | 120-3350           | 1           | Pulley-3V           |
| 5           | 32128-54           | 1           | Nut-HF             | 25          | 321-13             | 3           | Screw-HH            |
| 6           | 99-3624            | 1           | Shaft-Pivot, Idler | 26          | 3253-3             | 3           | Washer-Lock         |
| 7           | 302-5              | 1           | Fitting-Grease     | 27          | 100-4813           | 1           | Bushing-Lock, Taper |
| 8           | 104-8301           | 1           | Nut-HF, NI         | 28          | 120-3351           | 1           | Belt-3V             |
| 9           | 32151-36           | 1           | Ring-Retaining     | 29          | 70-2041            | 1           | Trim - Edge         |
| 10          | 323-10             | 1           | Screw-HH           | 30          | 353-949            | 1           | O-Ring              |
| 11          | 74-1810            | 1           | Washer             | 31          | 108-9036           | 1           | HYD Gear Pump ASM   |
| 12          | 139-6031           | 1           | Pulley-Idler       | 32          | 323-7              | 2           | Screw-HH            |
| 13          | 115-3488           | 1           | Spring-Torsion     | 33          | 3256-24            | 2           | Washer-Plain        |
| 14          | 137-1653           | 1           | Idler Arm ASM      | 35          | 99-3625            | 1           | Spacer-Arm, Idler   |
| 14:2        | 126-1963           | 2           | Bushing-Pivot      | 36          | 100-4852           | 2           | Washer-Hardened     |
| 15          | 32128-43           | 4           | Nut-Flange         | 37          | 3245-7             | 1           | Screw-Set           |
| 16          | 323-19             | 2           | Screw-HH           |             |                    |             |                     |

# Hydraulic Pump Assembly No. 104-4890



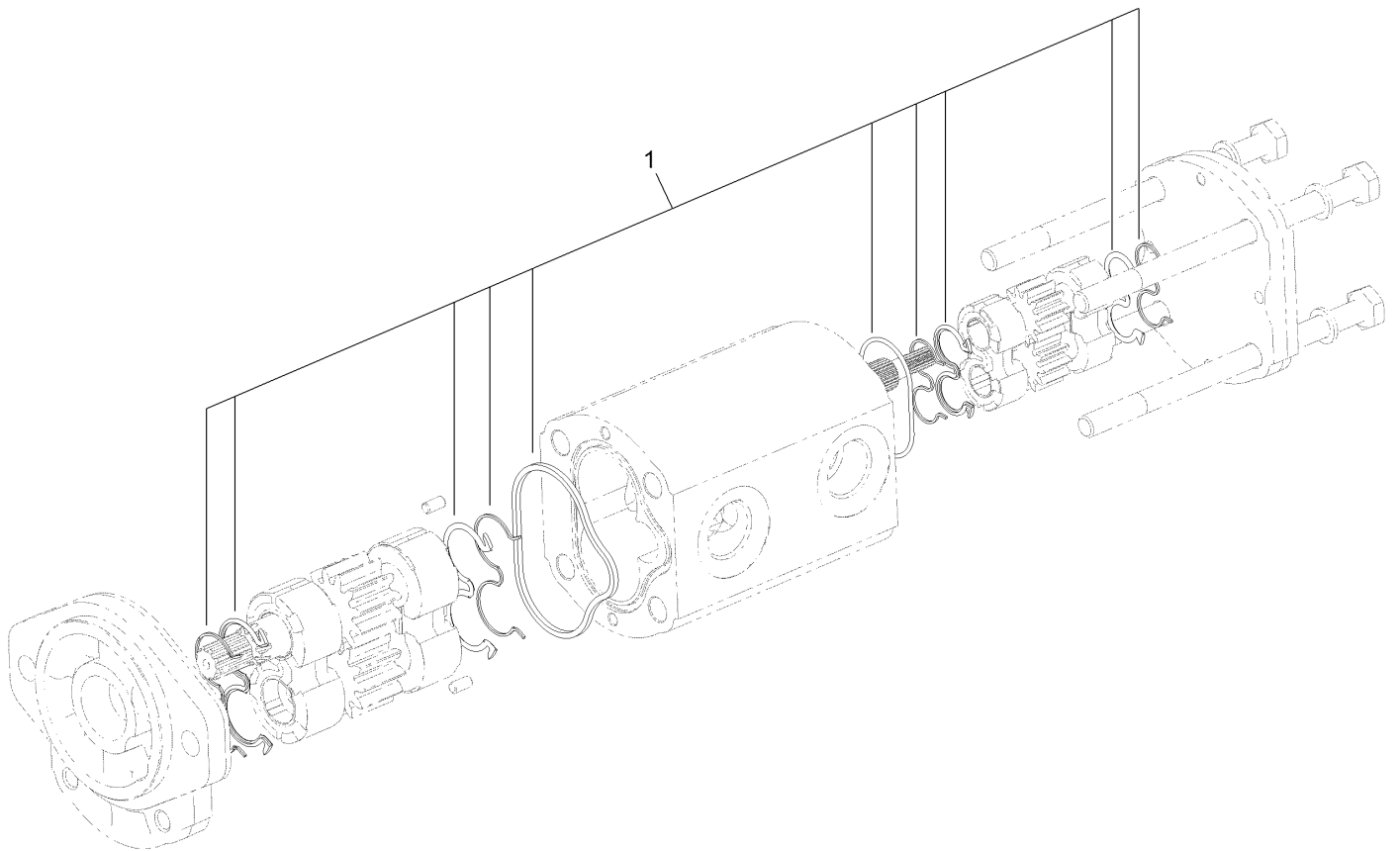
# Hydraulic Pump Assembly No. 104-4890 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|--------------------|
| 1           | 94-3645            | 1           | Key                | 25          | 98-4645            | 1           | Plate-Cover        |
| 2           | 94-6359            | 1           | Shaft-Drive        | 29          | 100-3176           | 1           | Housing ASM        |
| 3           | 104-4046           | 2           | Bearing-Cup        | 29:1        | 94-6363            | 1           | Bearing            |
| 4           | 98-4640            | 6           | Screw-Cap          | 31          | 252-71             | 2           | Washer-Thrust      |
| 5           | 98-4644            | 1           | Plate-Cover        | 32          | 252-66             | 1           | Bearing-Thrust     |
| 6           | 105-9762           | 6           | Washer             | 33          | 33-3720            | 1           | Washer             |
| 7           | 100-3182           | 2           | Shim Kit           | 39          | 98-4635            | 1           | Insert-Plate, Cam  |
| 8           | 98-4639            | 2           | Bearing-Cone       | 42          | 74-9040            | 1           | Coupler            |
| 9           | 94-3646            | 1           | Key                | 43          | 120-5754           | 1           | Seal Kit           |
| 10          | 104-4888           | 1           | Swashplate         | 43:1        |                    | 2           | O-Ring ■           |
| 11          | 76-6070            | 1           | Rotating Kit       | 43:2        |                    | 2           | O-Ring ■           |
| 13          | 104-0429           | 1           | Plate-Valve        | 43:3        |                    | 1           | Seal-Shaft ■       |
| 15          | 76-6150            | 2           | Pin-Dowel          | 43:4        |                    | 1           | Gasket ■           |
| 16          | 105-3813           | 1           | Endcover Sub ASM   | 43:5        |                    | 1           | Ring-Retaining ■   |
| 16:1        | 94-6368            | 1           | Bearing            | 43:6        |                    | 1           | Seal-Shaft ■       |
| 16:2        |                    | 1           | Pin-Roll ■         | 43:7        |                    | 1           | O-Ring ■           |
| 18          | 74-9280            | 2           | Plug ASM           | 43:8        |                    | 5           | O-Ring ■           |
| 18:1        |                    | 1           | O-Ring ■           | 43:9        |                    | 1           | Ring-Retaining ■   |
| 19          | 104-4889           | 1           | Relief Valve ASM   | 43:10       |                    | 1           | O-Ring ●■          |
| 20          | 105-3812           | 1           | Valve-Check        | 43:11       |                    | 1           | O Ring-Molded ●■   |
| 21          | 105-3811           | 1           | Valve-Bypass       | 43:12       |                    | 2           | Ring-Retaining ■   |
| 22          | 76-6170            | 2           | Capscrew           | 43:13       |                    | 1           | O-Ring ■●          |
| 23          | 76-6160            | 2           | Capscrew           |             |                    |             |                    |

● Not illustrated

■ Not serviced separately

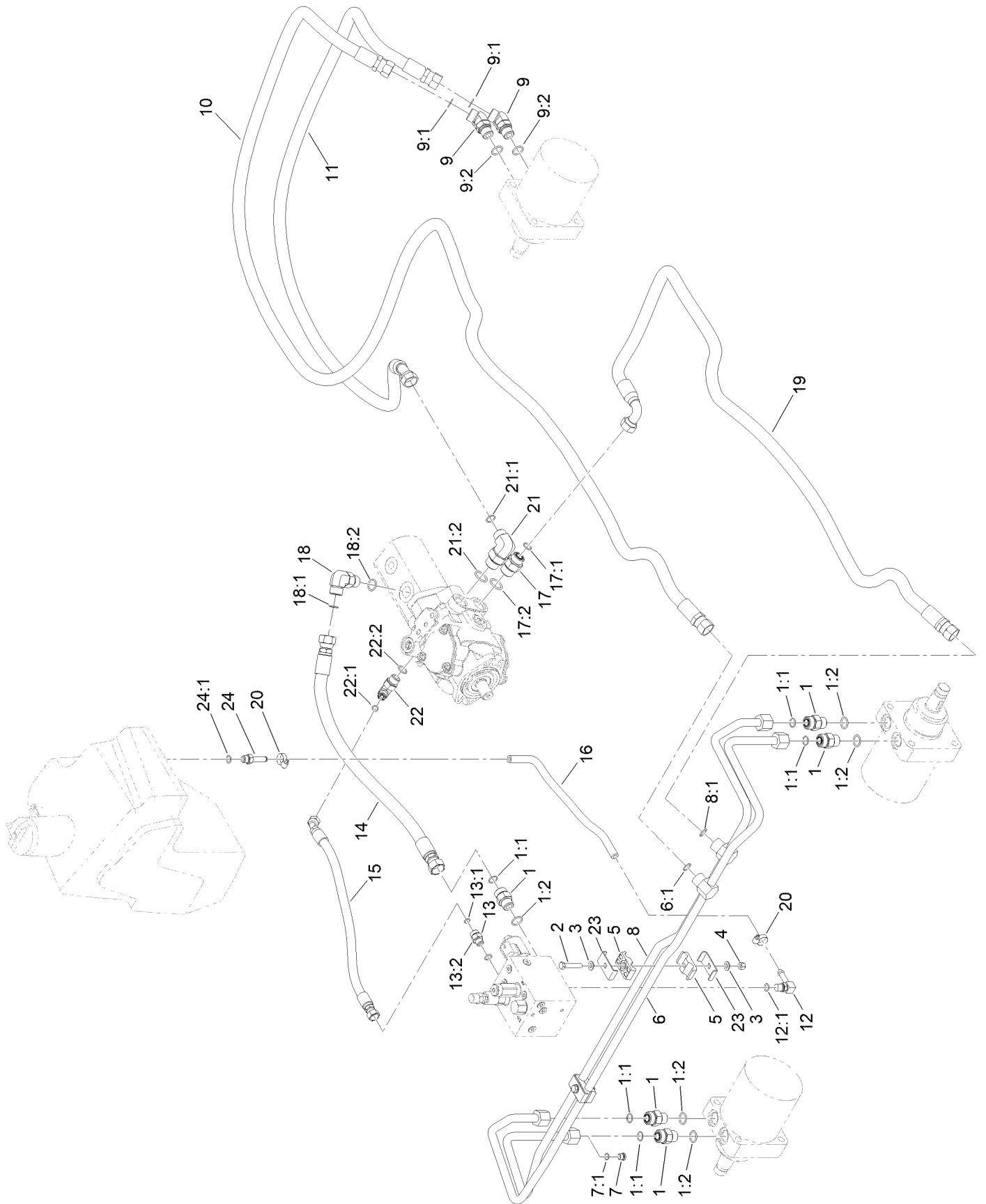
# Hydraulic Gear Pump Assembly No. 108-9036



## Hydraulic Gear Pump Assembly No. 108-9036 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 110-8755           | 1           | Seal Kit           |

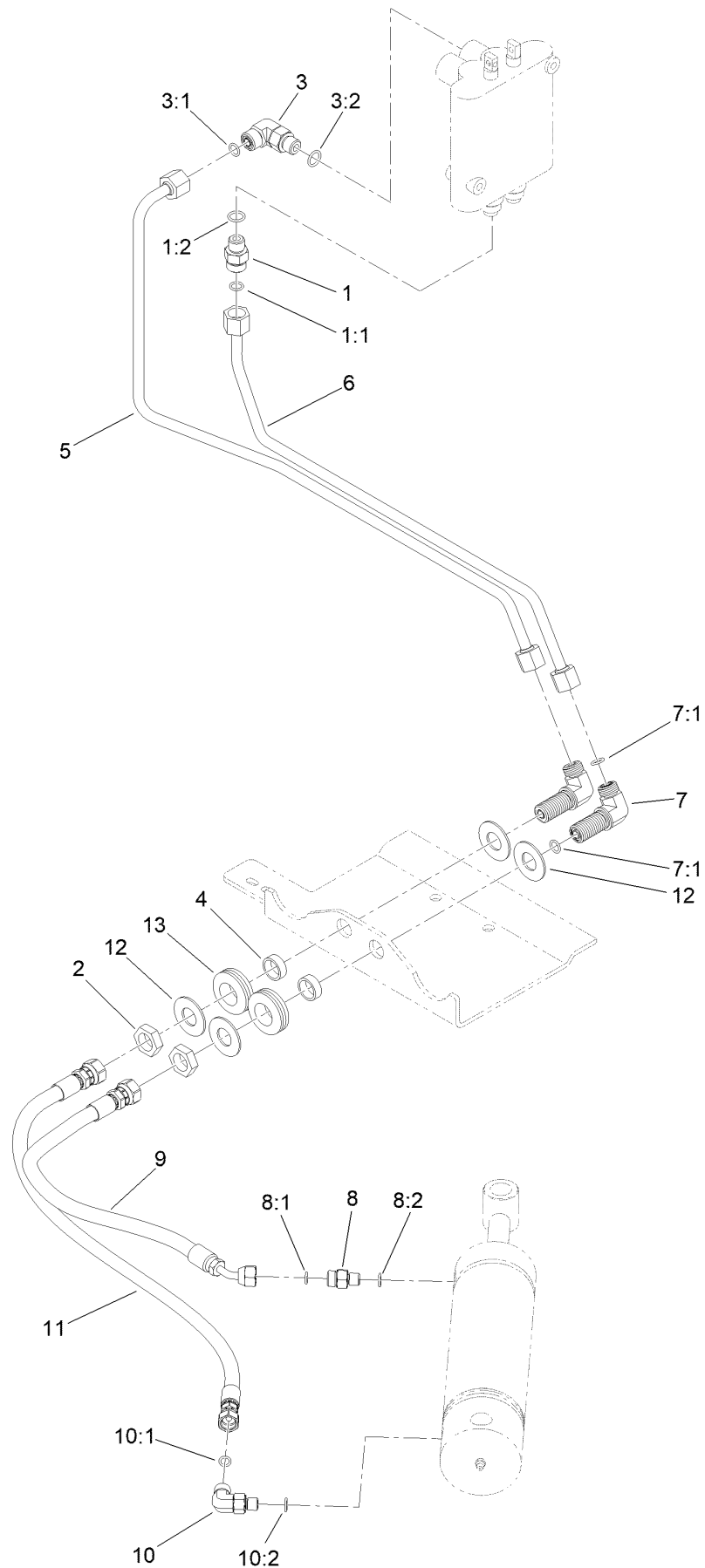
# Traction Hydraulic Assembly



## Traction Hydraulic Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>  | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    |
|-------------|--------------------|-------------|---------------------|-------------|--------------------|-------------|-----------------------|
| 1           | 340-7              | 5           | Fitting-Straight    | 13:2        | 237-42             | 1           | O-Ring                |
| 1:1         | 237-65             | 1           | O-Ring              | 14          | 104-0488           | 1           | Hose-HYD              |
| 1:2         | 237-80             | 1           | O-Ring              | 15          | 92-7595            | 1           | Hose-HYD              |
| 2           | 322-9              | 2           | Screw-HH            | 16          | 80-7342            | 1           | Hose-HYD              |
| 3           | 3256-23            | 4           | Washer-Plain        | 17          | 340-8              | 1           | Fitting-Straight      |
| 4           | 3296-29            | 2           | Nut-Lock, NI        | 17:1        | 237-65             | 1           | O-Ring                |
| 5           | 56-7971            | 4           | Clamp-Tube          | 17:2        | 237-81             | 1           | O-Ring                |
| 6           | 95-8783            | 1           | Tube ASM            | 18          | 340-17             | 1           | Fitting-Elbow, 90 DEG |
| 6:1         | 237-65             | 1           | O-Ring              | 18:1        | 237-65             | 1           | O-Ring                |
| 7           | 353-990            | 1           | Plug ASM            | 18:2        | 237-80             | 1           | O-Ring                |
| 7:1         | 237-78             | 1           | O-Ring              | 19          | 105-1214           | 1           | Hose-HYD              |
| 8           | 95-8784            | 1           | Tube ASM            | 20          | 2412-36            | 2           | Clamp-Hose            |
| 8:1         | 237-65             | 1           | O-Ring              | 21          | 340-139            | 1           | Fitting-Elbow 90      |
| 9           | 340-14             | 2           | Fitting-HYD, 45 DEG | 21:1        | 237-81             | 1           | O-Ring                |
| 9:1         | 237-65             | 1           | O-Ring              | 21:2        | 237-65             | 1           | O-Ring                |
| 9:2         | 237-80             | 1           | O-Ring              | 22          | 340-18             | 1           | Fitting-HYD, 90 DEG   |
| 10          | 105-1213           | 1           | Hose-HYD            | 22:1        | 237-79             | 1           | O-Ring                |
| 11          | 105-1212           | 1           | Hose-HYD            | 22:2        | 237-22             | 1           | O-Ring                |
| 12          | 100-4887           | 1           | Fitting-Elbow, 90   | 23          | 119-1419           | 4           | Plate-Clamp           |
| 12:1        | 237-42             | 1           | O-Ring              | 24          | 353-979            | 1           | Fitting-STR           |
| 13          | 340-2              | 1           | Fitting-Straight    | 24:1        | 237-42             | 1           | O-Ring                |
| 13:1        | 237-22             | 1           | O-Ring              |             |                    |             |                       |

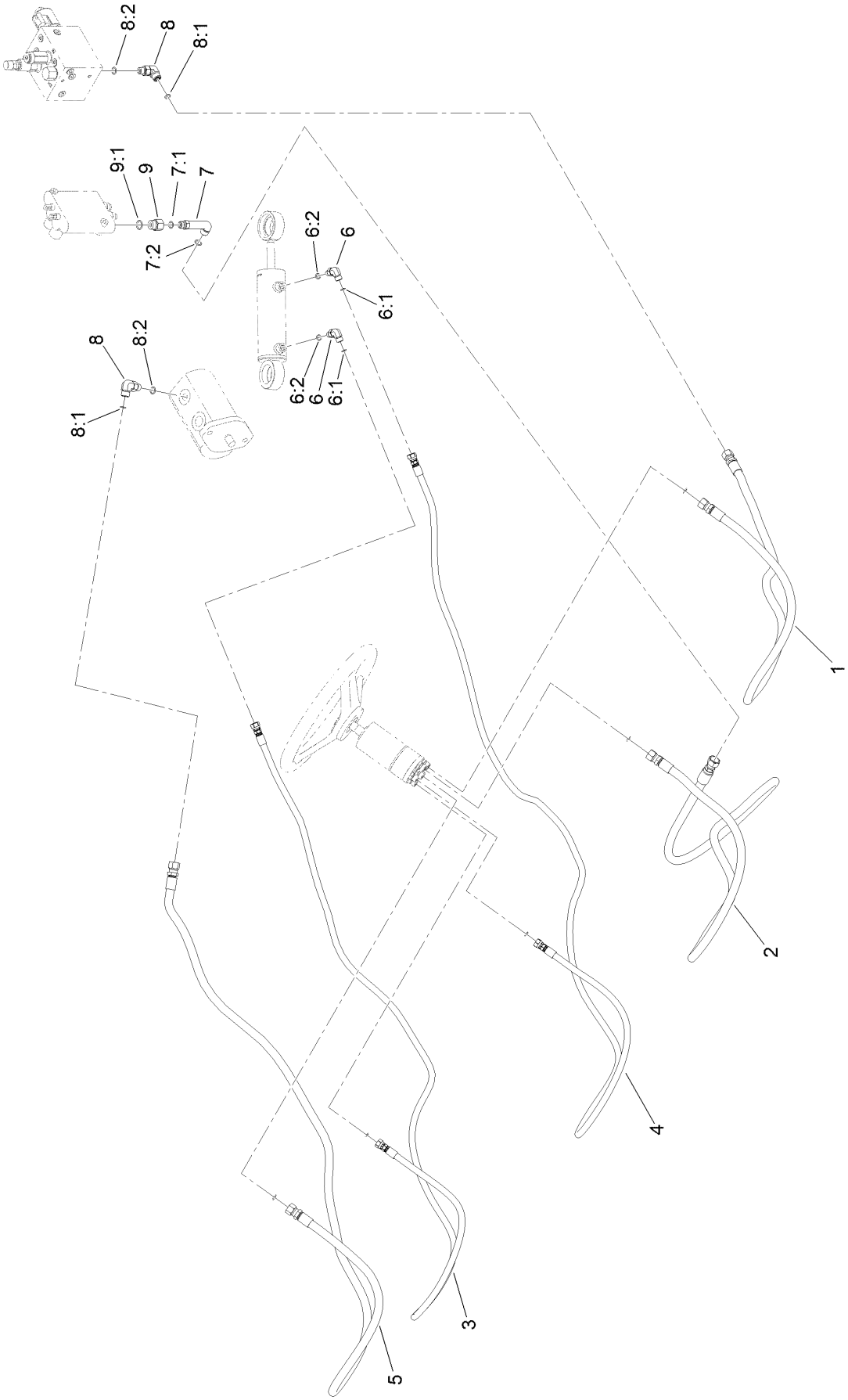
# Scissor Hydraulic Assembly



## Scissor Hydraulic Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    |
|-------------|--------------------|-------------|-----------------------|-------------|--------------------|-------------|-----------------------|
| 1           | 340-2              | 1           | Fitting-Straight      | 7:1         | 237-22             | 2           | O-Ring                |
| 1:1         | 237-22             | 1           | O-Ring                | 8           | 85-9720            | 1           | Fitting-STR, Orifice  |
| 1:2         | 237-42             | 1           | O-Ring                | 8:1         | 237-78             | 1           | O-Ring                |
| 2           | 340-70             | 2           | Nut-Lock              | 8:2         | 237-21             | 1           | O-Ring                |
| 3           | 340-77             | 1           | Fitting-Elbow, 90 DEG | 9           | 95-8838            | 1           | Hose-HYD              |
| 3:1         | 237-22             | 1           | O-Ring                | 10          | 340-132            | 1           | Fitting-Elbow, 90 DEG |
| 3:2         | 237-42             | 1           | O-Ring                | 10:1        | 237-78             | 1           | O-Ring                |
| 4           | 69-8970            | 2           | Spacer                | 10:2        | 237-21             | 1           | O-Ring                |
| 5           | 95-8790            | 1           | Tube-HYD              | 11          | 95-8839            | 1           | Hose-HYD              |
| 6           | 95-8791            | 1           | Tube-HYD              | 12          | 69-8940            | 4           | Washer                |
| 7           | 340-154            | 2           | Union-Bulkhead        | 13          | 240-4              | 2           | Grommet-Rubber        |

# Steering Hydraulic Assembly



## Steering Hydraulic Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    |
|-------------|--------------------|-------------|-----------------------|-------------|--------------------|-------------|-----------------------|
| 1           | 95-8842            | 1           | Hose-HYD              | 7           | 69-4320            | 1           | Fitting-HYD, 90 DEG   |
| 2           | 95-8843            | 1           | Hose-HYD              | 7:1         | 237-22             | 1           | O-Ring                |
| 3           | 100-4892           | 1           | Hose-HYD              | 7:2         | 237-42             | 1           | O-Ring                |
| 4           | 100-4893           | 1           | Hose-HYD              | 8           | 340-77             | 2           | Fitting-Elbow, 90 DEG |
| 5           | 95-8846            | 1           | Hose-HYD              | 8:1         | 237-22             | 1           | O-Ring                |
| 6           | 340-132            | 2           | Fitting-Elbow, 90 DEG | 8:2         | 237-42             | 1           | O-Ring                |
| 6:1         | 237-78             | 1           | O-Ring                | 9           | 353-397            | 1           | Reducer-Adapter       |
| 6:2         | 237-21             | 1           | O-Ring                | 9:1         | 237-79             | 1           | O-Ring                |

This technical drawing is an exploded view of a hydraulic system assembly. It shows the following components and their assembly relationships:

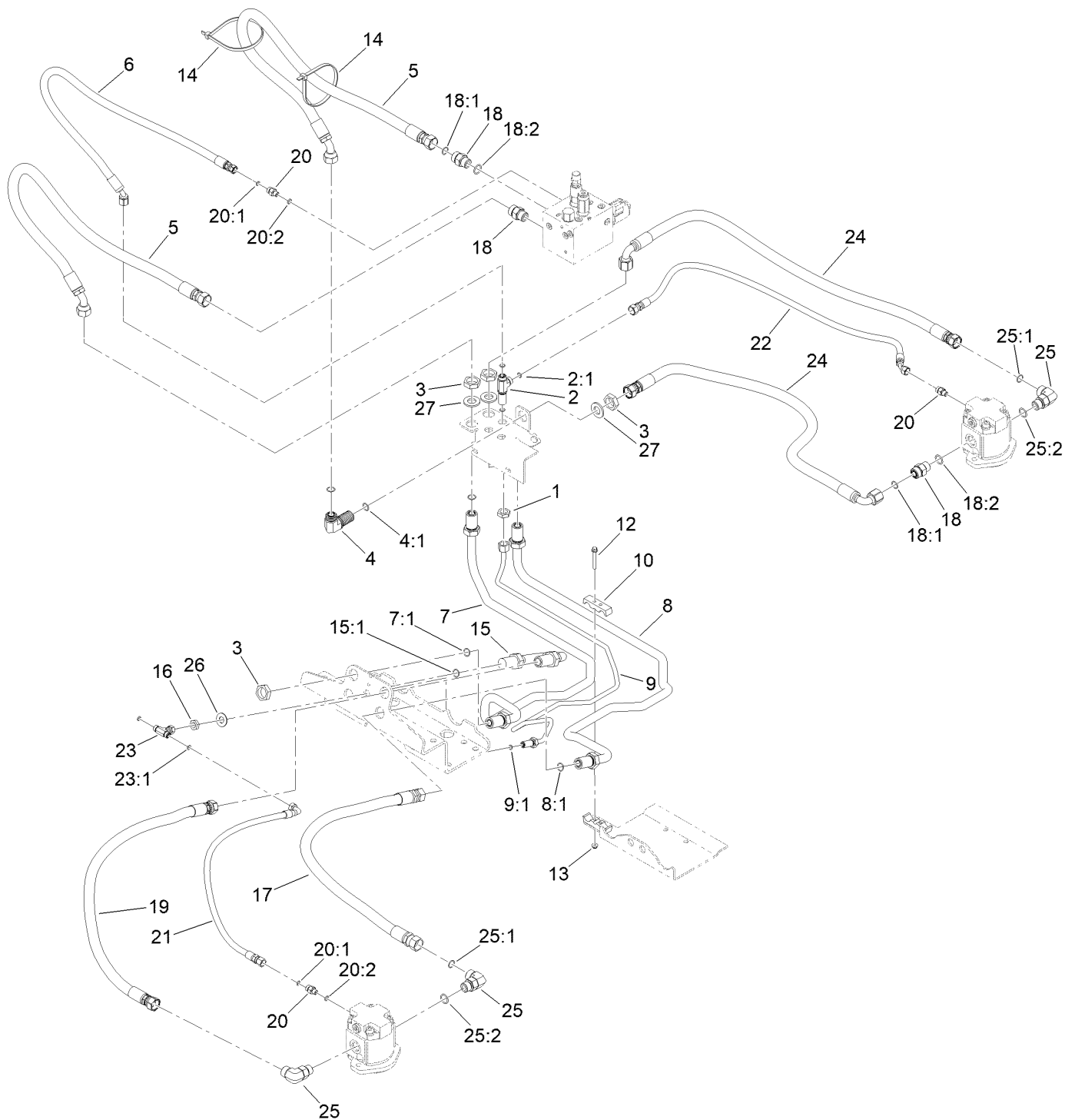
- 1**: A hydraulic cylinder or actuator, shown in two orientations (vertical and horizontal).
- 2**: A long hydraulic hose.
- 3**: A mounting plate or bracket.
- 4**: A hydraulic valve or control unit.
- 5**: A hydraulic fitting or connector, shown in multiple variants (5:1, 5:2).
- 6**: A U-shaped hydraulic hose or manifold.
- 7**: A small hydraulic component, possibly a check valve or filter.
- 10**: A curved hydraulic hose.
- 11**: A long hydraulic hose.
- 12**: A hydraulic hose with a specific fitting.
- 13**: A hydraulic hose with a specific fitting.
- 14**: A hydraulic hose with a specific fitting.
- 15**: A hydraulic fitting or connector, shown in multiple variants (15:1, 15:2).
- 16**: A hydraulic component, possibly a filter or valve.
- 17**: A small hydraulic component, possibly a check valve or filter.
- 18**: A curved hydraulic hose.
- 19**: A long hydraulic hose.
- 20**: A mounting plate or bracket.

The diagram uses dashed lines to indicate the assembly path and alignment of the components. The numbering system (e.g., 5:1, 5:2) likely refers to different specifications or configurations of the same part.

## Sidewinder Hydraulic Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>         | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|----------------------------|-------------|--------------------|-------------|--------------------|
| 1           | 340-3              | 1           | Fitting-Straight           | 10          | 100-4827           | 1           | Tube-HYD           |
| 1:1         | 237-22             | 1           | O-Ring                     | 11          | 95-8822            | 1           | Hose-HYD           |
| 1:2         | 237-79             | 1           | O-Ring                     | 12          | 104-0405           | 1           | Hose-HYD           |
| 2           | 104-0402           | 1           | Tube-HYD                   | 13          | 95-8822            | 1           | Hose-HYD           |
| 2:1         | 237-22             | 1           | O-Ring                     | 14          | 104-0406           | 1           | Hose-HYD           |
| 3           | 340-70             | 4           | Nut-Lock                   | 15          | 340-2              | 3           | Fitting-Straight   |
| 4           | 340-68             | 1           | Fitting-Tee, Bulkhead      | 15:1        | 237-22             | 1           | O-Ring             |
| 4:1         | 237-22             | 3           | O-Ring                     | 15:2        | 237-42             | 1           | O-Ring             |
| 5           | 340-77             | 5           | Fitting-Elbow, 90 DEG      | 16          | 354-77             | 1           | Fitting-Quick      |
| 5:1         | 237-22             | 1           | O-Ring                     | 16:1        | 237-78             | 1           | O-Ring             |
| 5:2         | 237-42             | 1           | O-Ring                     | 17          | 354-79             | 1           | Cap-Dust           |
| 6           | 104-0403           | 1           | Tube ASM                   | 18          | 104-0407           | 1           | Hose-HYD           |
| 6:1         | 237-22             | 1           | O-Ring                     | 19          | 100-4891           | 1           | Hose-HYD           |
| 7           | 340-71             | 1           | Fitting-Straight, Bulkhead | 20          | 1278               | 2           | Washer             |
| 7:1         | 237-22             | 2           | O-Ring                     |             |                    |             |                    |

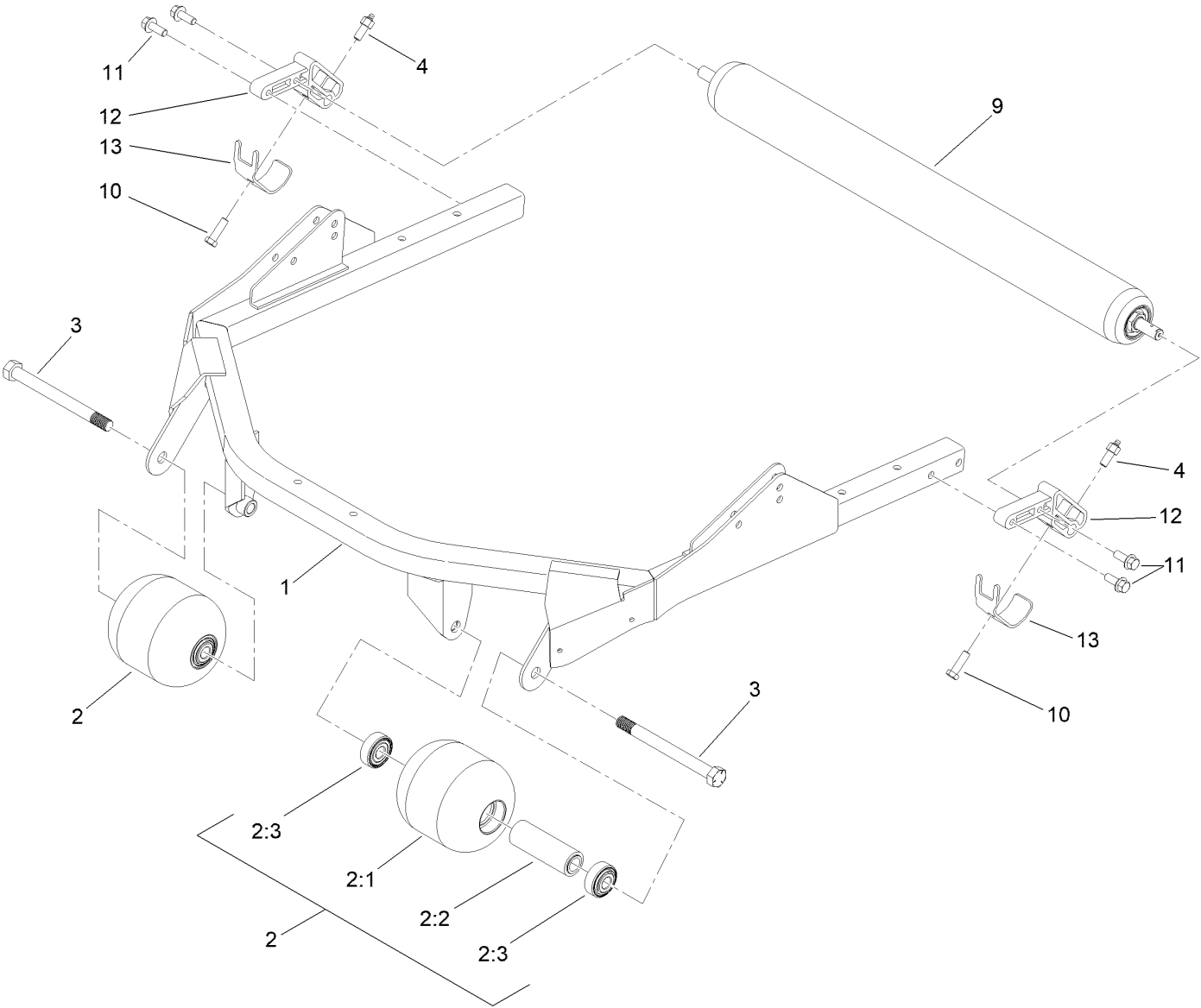
# Hydraulic Mow Circuit Plumbing Assembly



## Hydraulic Mow Circuit Plumbing Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>       | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    |
|-------------|--------------------|-------------|--------------------------|-------------|--------------------|-------------|-----------------------|
| 1           | 340-70             | 1           | Nut-Lock                 | 16          | 340-78             | 1           | Nut-Lock              |
| 2           | 340-68             | 1           | Fitting-Tee, Bulkhead    | 17          | 105-1216           | 2           | Hose-HYD              |
| 2:1         | 237-22             | 3           | O-Ring                   | 18          | 340-7              | 3           | Fitting-Straight      |
| 3           | 340-74             | 7           | Nut-Lock, Bulkhead       | 18:1        | 237-65             | 1           | O-Ring                |
| 4           | 340-72             | 1           | Fitting-Bulkhead, 90 DEG | 18:2        | 237-80             | 1           | O-Ring                |
| 4:1         | 237-65             | 2           | O-Ring                   | 19          | 105-1215           | 2           | Hose-HYD              |
| 5           | 100-4879           | 2           | Hose-HYD                 | 20          | 340-92             | 4           | Fitting-Straight      |
| 6           | 115-3411           | 1           | Hose-HYD                 | 20:1        | 237-78             | 1           | O-Ring                |
| 7           | 104-0401           | 1           | Tube ASM                 | 20:2        | 237-21             | 1           | O-Ring                |
| 7:1         | 237-65             | 2           | O-Ring                   | 21          | 104-1080           | 2           | Hose-HYD              |
| 8           | 104-0400           | 1           | Tube ASM                 | 22          | 100-4876           | 1           | Hose-HYD              |
| 8:1         | 237-65             | 2           | O-Ring                   | 23          | 99-3477            | 1           | Fitting-Tee           |
| 9           | 104-0404           | 1           | Tube ASM                 | 23:1        | 237-21             | 2           | O-Ring                |
| 9:1         | 237-21             | 1           | O-Ring                   | 24          | 100-4880           | 2           | Hose-HYD              |
| 10          | 99-3641            | 2           | Clamp-Tube               | 25          | 340-17             | 5           | Fitting-Elbow, 90 DEG |
| 12          | 3234-34            | 2           | Screw-HHF                | 25:1        | 237-65             | 1           | O-Ring                |
| 13          | 104-7201           | 2           | Nut-HF, NI               | 25:2        | 237-80             | 1           | O-Ring                |
| 14          | 3334-945           | 2           | Tie-Cable                | 26          | 69-8980            | 1           | Washer                |
| 15          | 99-3640            | 1           | Tube ASM                 | 27          | 69-9010            | 3           | Washer                |
| 15:1        | 237-65             | 2           | O-Ring                   |             |                    |             |                       |

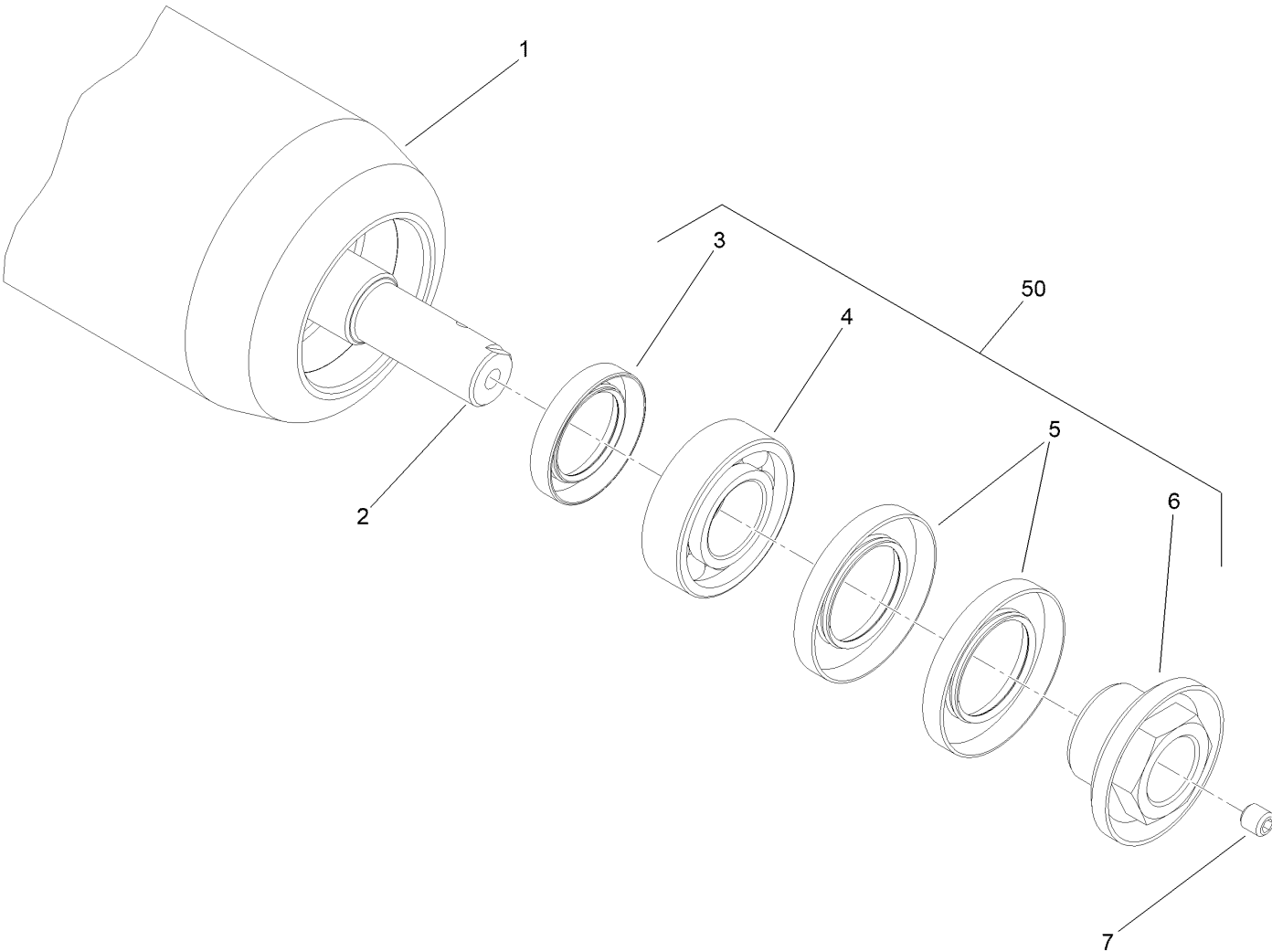
# Roller and Carrier Frame Assembly



## Roller and Carrier Frame Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>   |
|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|----------------------|
| 1           | 100-5780-03        | 1           | Frame-Deck         | 4           | 127-6422           | 2           | Screw-Grease, Roller |
| 2           | 136-2908           | 2           | Roller ASM         | 9           | 137-6141           | 1           | Rear Roller ASM      |
| 2:1         | 104-1093           | 1           | Roller             | 10          | 323-7              | 2           | Screw-HH             |
| 2:2         | 100-5762           | 1           | Spacer-Bearing     | 11          | 3234-11            | 4           | Screw-HHF            |
| 2:3         | 120-3366           | 2           | Bearing            | 12          | 112-5268           | 2           | Mount-Roller         |
| 3           | 136-2924           | 2           | Screw-HH           | 13          | 107-7816           | 2           | Bracket-Skid         |

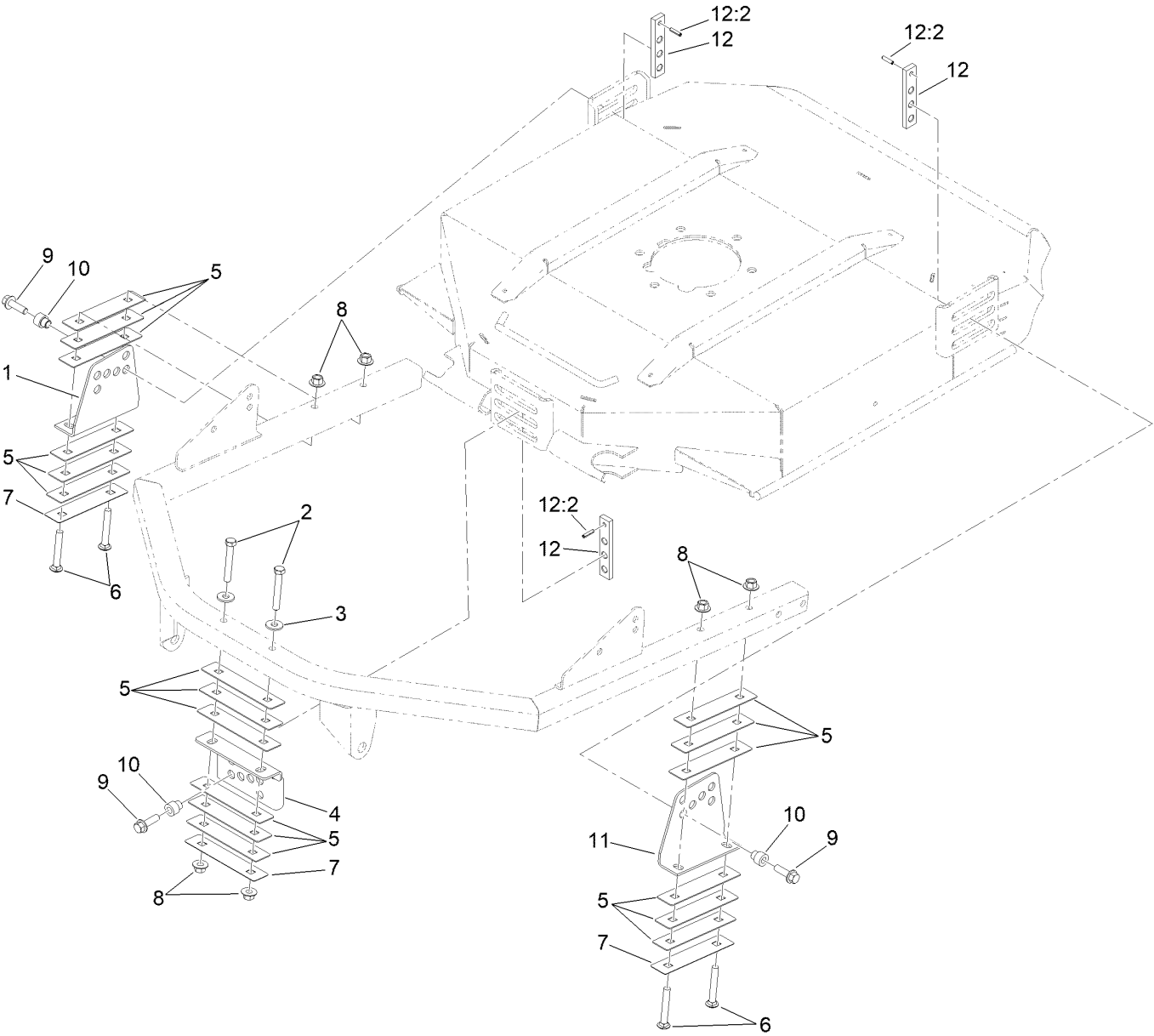
Rear Roller Assembly No. 137-6141



## Rear Roller Assembly No. 137-6141 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>       | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------------|-------------|--------------------|-------------|--------------------|
| 1           | 137-6140           | 1           | Tube-Roller              | 5           | 112-7494           | 4           | Seal               |
| 2           | 117-5100           | 1           | Shaft-Roller, Rear       | 6           | 114-5411           | 2           | Nut-Lock, Bearing  |
| 3           | 114-3717           | 2           | Seal-Oil                 | 7           | 108-0989           | 2           | Screw-Set          |
| 4           | 112-5290           | 2           | Bearing-Steel, Stainless | 50          | 114-5430           | 1           | Roller Rebuild Kit |

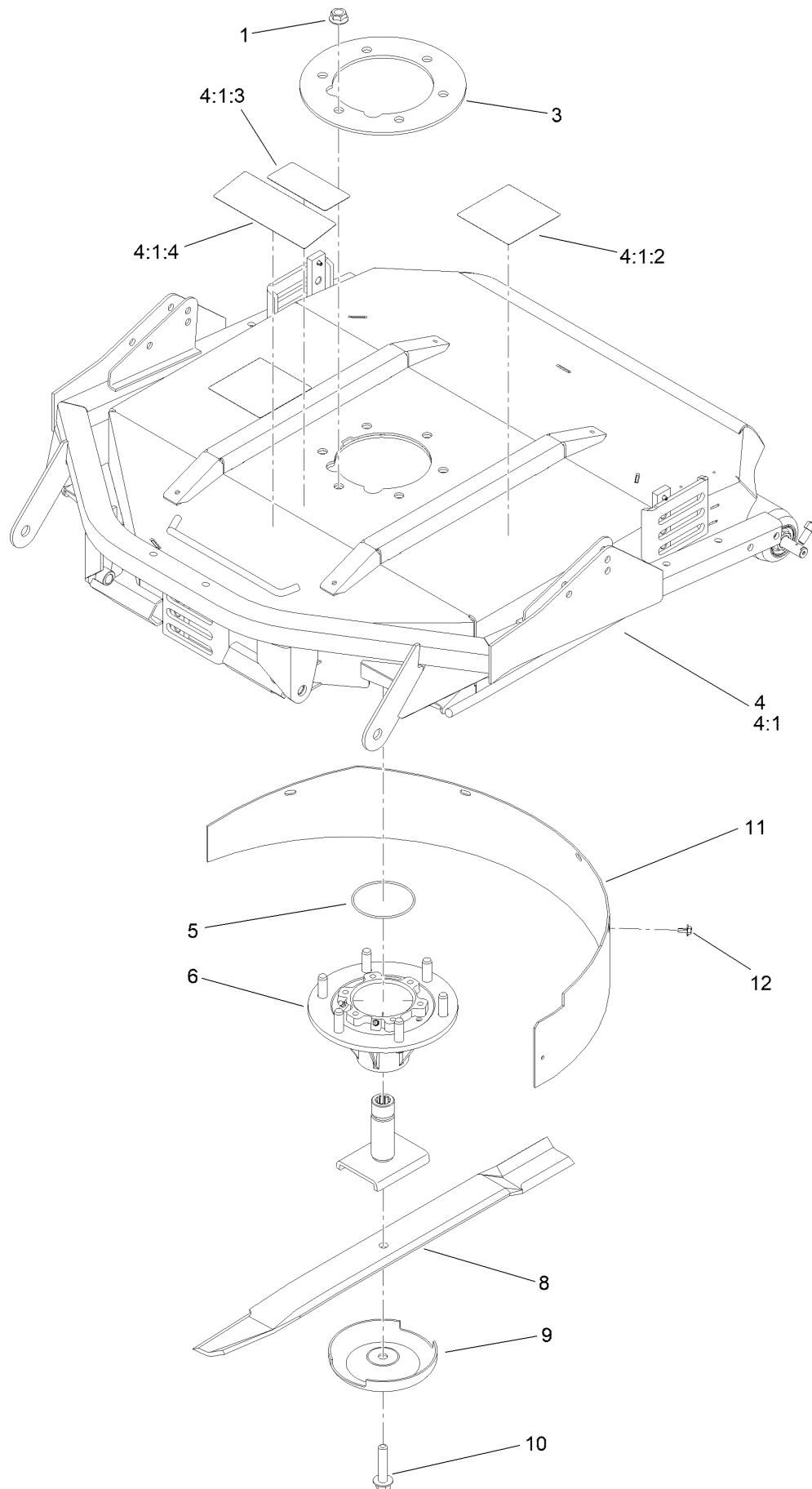
# Height-of-Cut Bracket Assembly



## Height-of-Cut Bracket Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>  | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|---------------------|-------------|--------------------|-------------|--------------------|
| 1           | 100-5797-03        | 1           | Bracket-HOC, RH     | 8           | 32128-43           | 6           | Nut-Flange         |
| 2           | 323-12             | 2           | Screw-HH            | 9           | 3234-24            | 3           | Screw-HHF          |
| 3           | 80-6990            | 2           | Washer-Hardened     | 10          | 121-3575           | 3           | Spacer-HOC         |
| 4           | 104-1052-03        | 1           | Bracket-HOC, Front  | 11          | 104-4624-03        | 1           | Bracket-HOC, LH    |
| 5           | 100-5799           | 18          | Shim-HOC, .060 Inch | 12          | 136-2921           | 3           | HOC Plate ASM      |
| 6           | 3231-9             | 4           | Screw-CARR          | 12:2        | 32121-2            | 1           | Pin-Roll, Slotted  |
| 7           | 104-4641           | 3           | Shim-HOC, .030 Inch |             |                    |             |                    |

# Chamber, Blade and Spindle Assembly

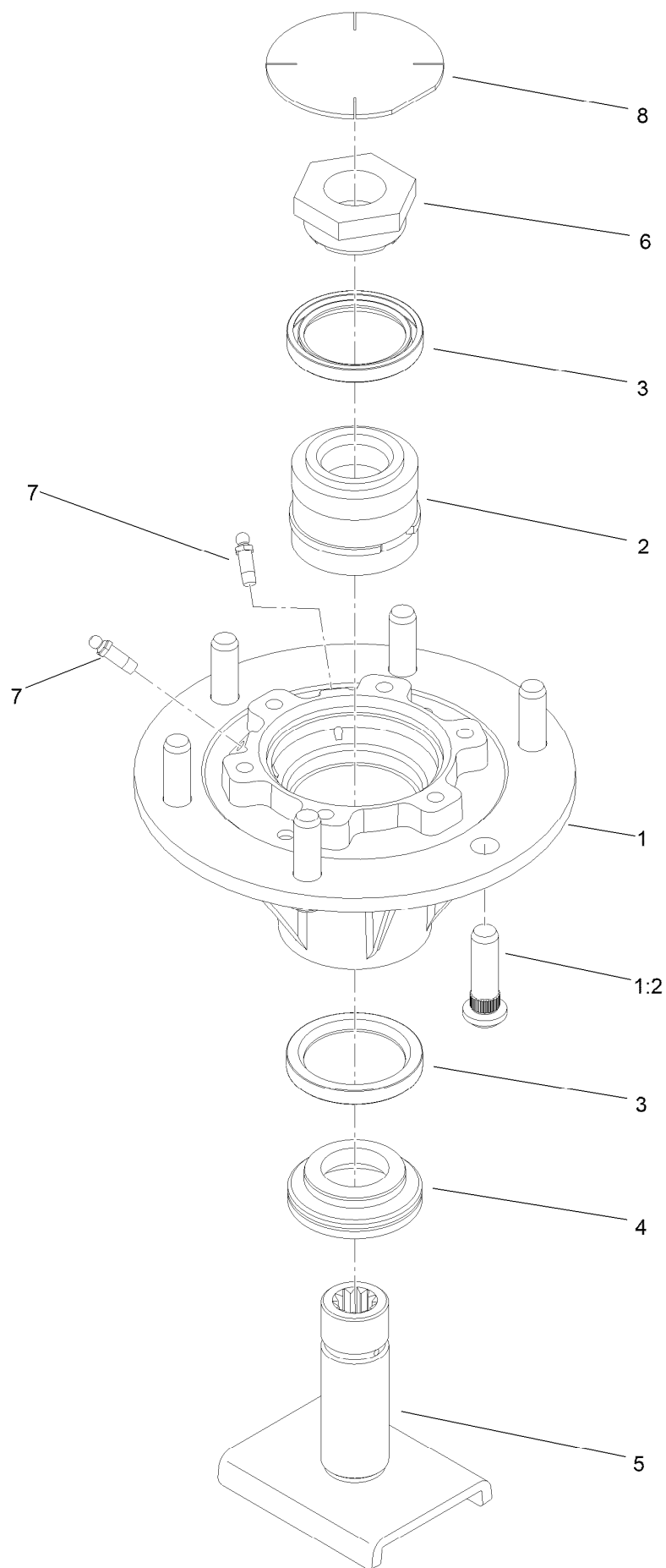


## Chamber, Blade and Spindle Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>       | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------------|-------------|--------------------|-------------|--------------------|
| 1           | 32128-39           | 6           | Nut-HHF                  | 6           | 121-3666           | 1           | Spindle ASM        |
| 3           | 104-1051-03        | 1           | Plate-Spindle            | 8           | 107-0235-03        | 1           | Blade-Atomic       |
| 4           | 127-6389           | 1           | Deck Chamber Service ASM | 8           | 108-9026           | 1           | Blade-27", Combo   |
| 4:1         |                    | 1           | Chamber ASM ●            | 9           | 72-9361            | 1           | Cup-Scalp, Anti    |
| 4:1:2       | 117-4764           | 2           | Decal-Danger             | 10          | 92-5816            | 1           | Bolt-Blade         |
| 4:1:3       | 93-7818            | 1           | Decal-Torque, Blade Bolt | 11          | 108-9025-01        | 1           | Baffle-Mulching    |
| 4:1:4       | 121-3627           | 1           | Decal-Height Of Cut      | 12          | 46-8560            | 5           | Screw-HHFTF        |
| 5           | 237-161            | 1           | O-Ring                   |             |                    |             |                    |

● Not serviced separately

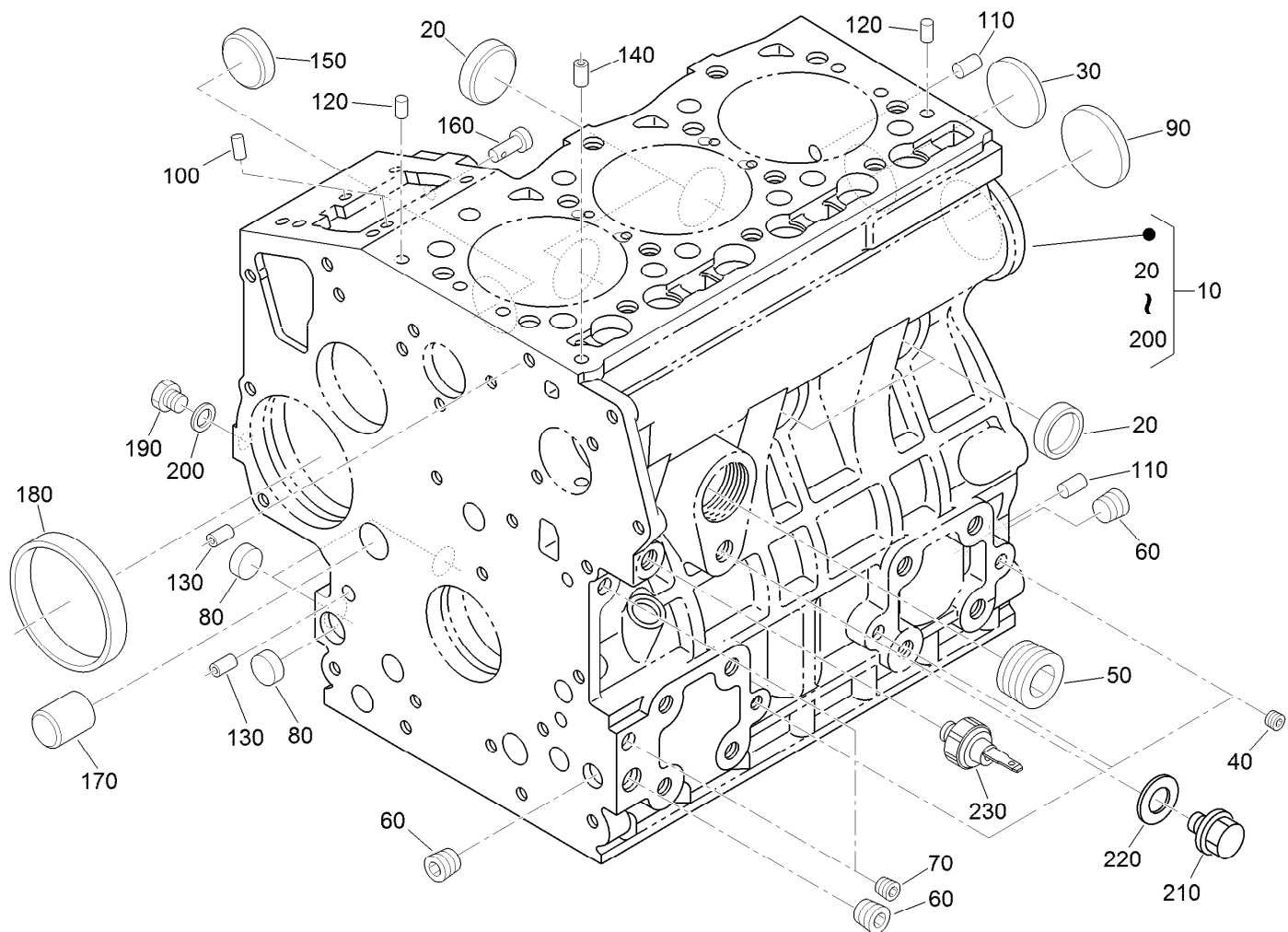
# Spindle Assembly No. 121-3666



## Spindle Assembly No. 121-3666 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>     |
|-------------|--------------------|-------------|------------------------|
| 1           | 115-3434           | 1           | Spindle                |
| 1:2         | 10-6830            | 6           | Stud-Type, Drive       |
| 2           | 100-5703           | 1           | Spacer And Bearing ASM |
| 3           | 253-154            | 2           | Seal-Oil               |
| 4           | 138-6416           | 1           | Spacer-Spindle, Shaft  |

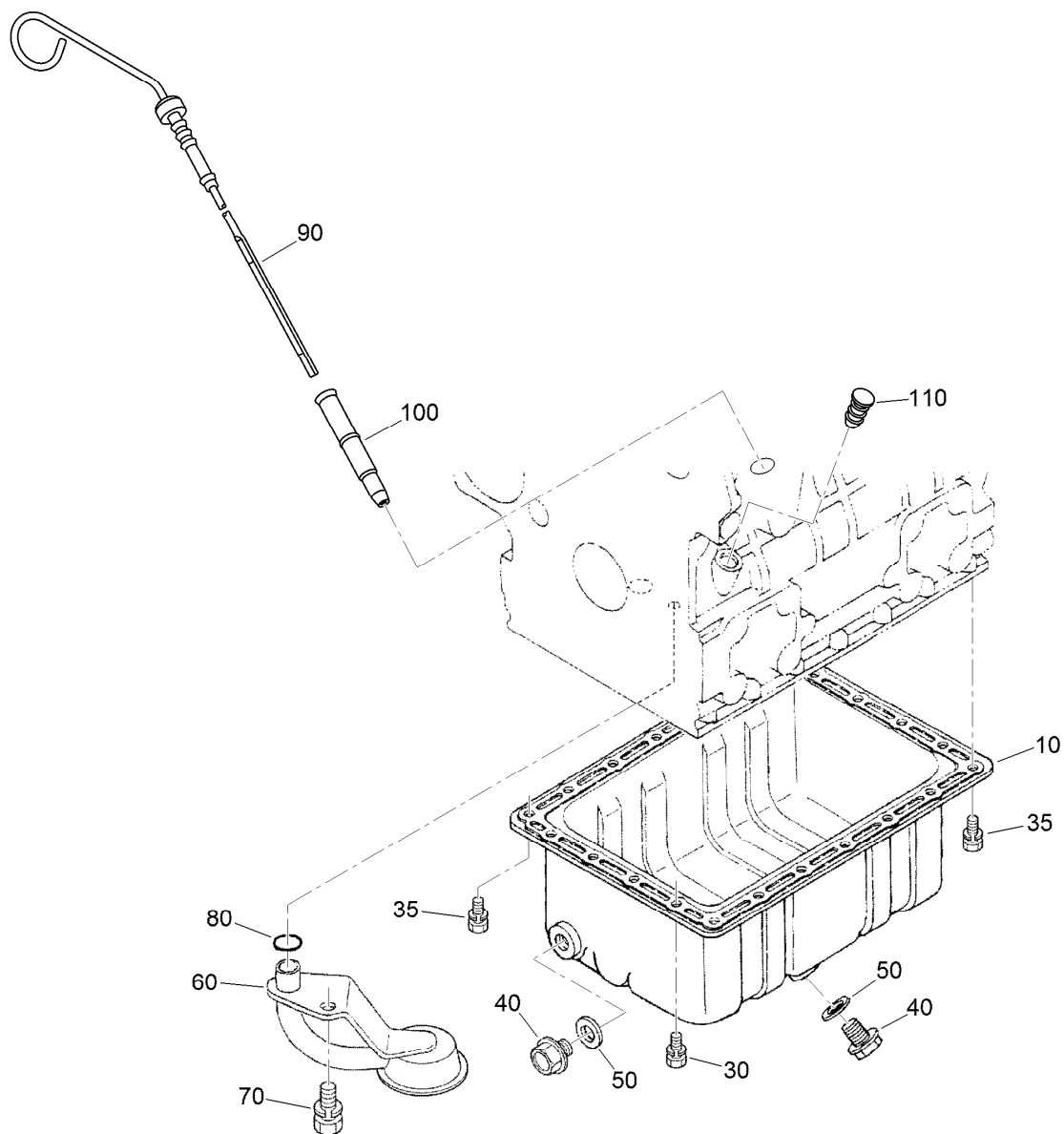
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 5           | 121-3664           | 1           | Spindle Shaft ASM  |
| 6           | 100-5709           | 1           | Nut-Spindle, Spcl  |
| 7           | 302-62             | 2           | Fitting-Grease     |
| 8           | 94-2703            | 1           | Plug               |



## Crankcase Assembly

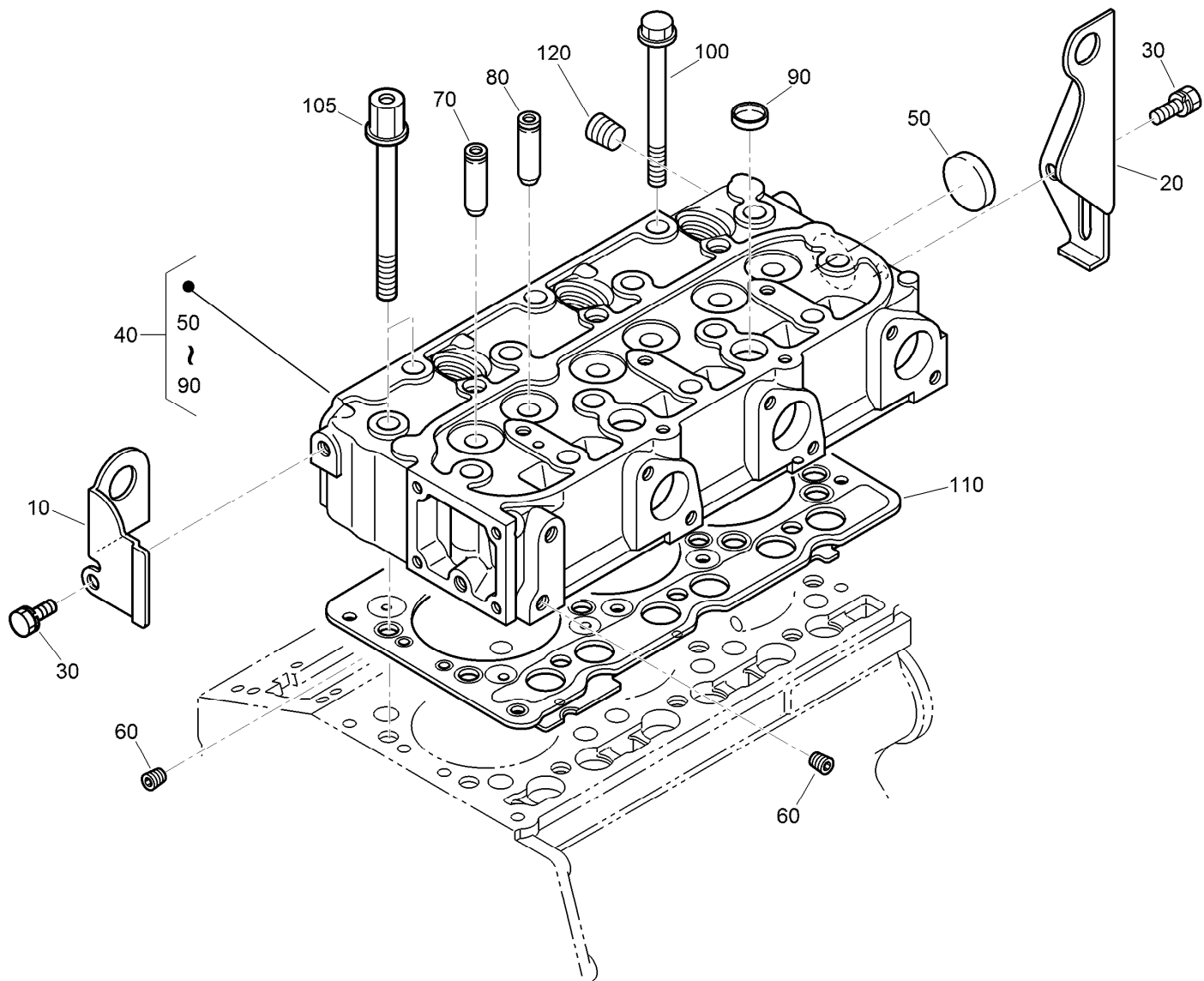
| Ref. | Part Number | Qty. | Description    |
|------|-------------|------|----------------|
| 10   | 115-3443    | 1    | Crankcase ASM  |
| 20   | 98-9398     | 4    | Cap-Sealing    |
| 30   | 98-7539     | 1    | Cap-Sealing    |
| 40   | 98-9687     | 3    | Plug           |
| 50   | 105-3779    | 1    | Plug           |
| 60   | 98-9597     | 3    | Plug           |
| 70   | 98-7487     | 2    | Plug           |
| 80   | 98-9379     | 3    | Plug-Expansion |
| 90   | 98-9668     | 1    | Plug-Expansion |
| 100  | 98-9375     | 2    | Pin-Straight   |
| 110  | 98-9377     | 2    | Pin-Straight   |
| 120  | 98-9376     | 2    | Pin-Straight   |

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 130  | 98-9387     | 2    | Pin-Pipe               |
| 140  | 98-9539     | 1    | Pin-Pipe               |
| 150  | 98-9599     | 1    | Plug                   |
| 160  | 98-9630     | 1    | Pin-Spring, Start      |
| 170  | 98-9675     | 1    | Plug                   |
| 180  | 98-9656     | 1    | Bushing-Governor, Gear |
| 190  | 120-2559    | 1    | Plug                   |
| 200  | 98-7428     | 1    | Gasket                 |
| 210  | 99-3447     | 1    | Plug                   |
| 220  | 112-8325    | 1    | Washer                 |
| 230  | 98-9416     | 1    | Switch-Oil             |



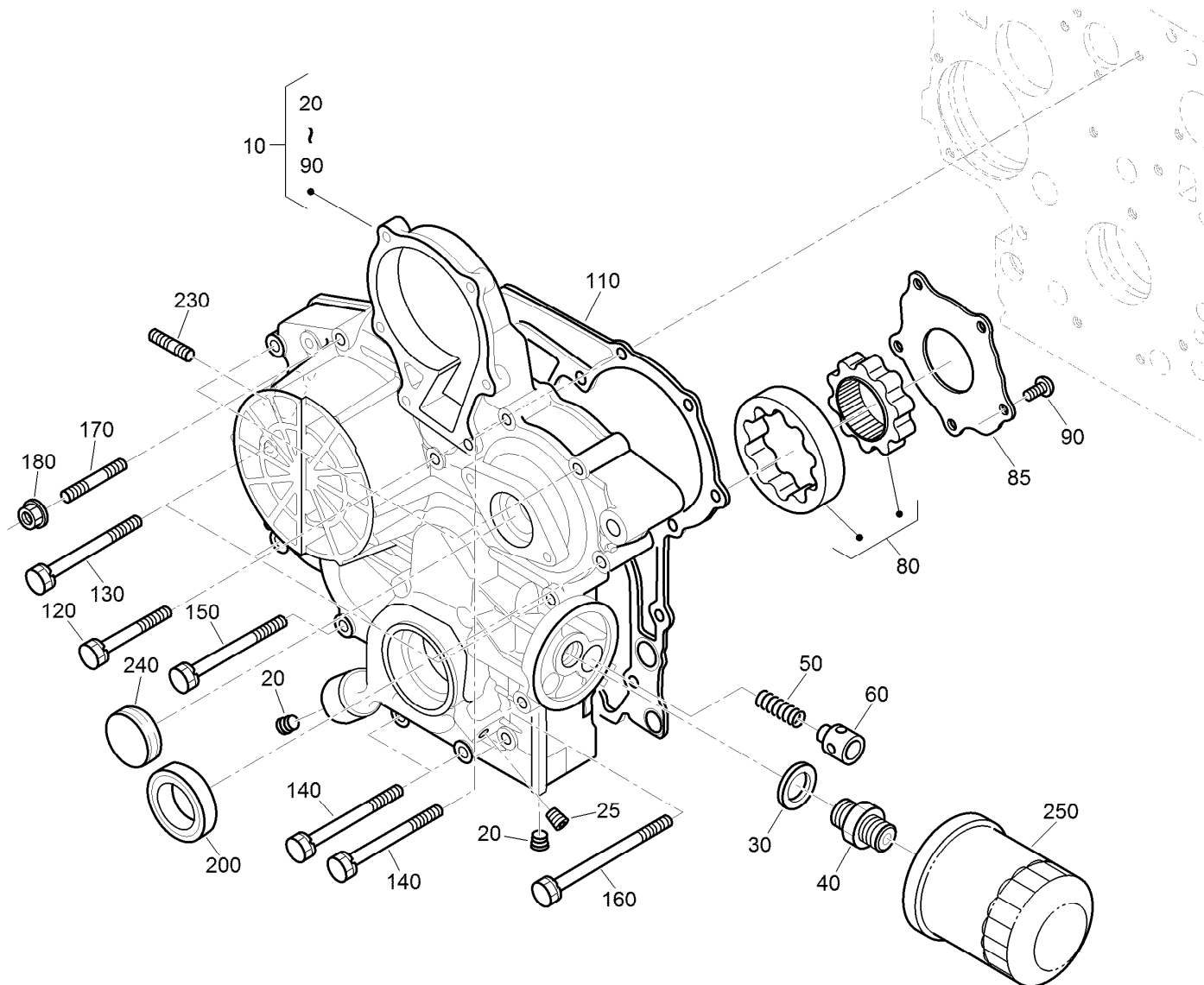
## Oil Pan and Dipstick Assembly

| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 10   | 98-9685     | 1    | Pan-Oil          |
| 30   | 98-9351     | 20   | Bolt             |
| 35   | 98-9351     | 2    | Bolt             |
| 40   | 114-8151    | 2    | Plug-Drain       |
| 50   | 98-7524     | 2    | Gasket           |
| 60   | 108-1401    | 1    | Base-Filter      |
| 70   | 98-7526     | 1    | Bolt             |
| 80   | 105-3776    | 1    | O-Ring           |
| 90   | 104-9348    | 1    | Gauge-Oil        |
| 100  | 105-4580    | 1    | Guide-Gauge, Oil |
| 110  | 110-3720    | 1    | Plug-Gauge, Oil  |



## Cylinder Head Assembly

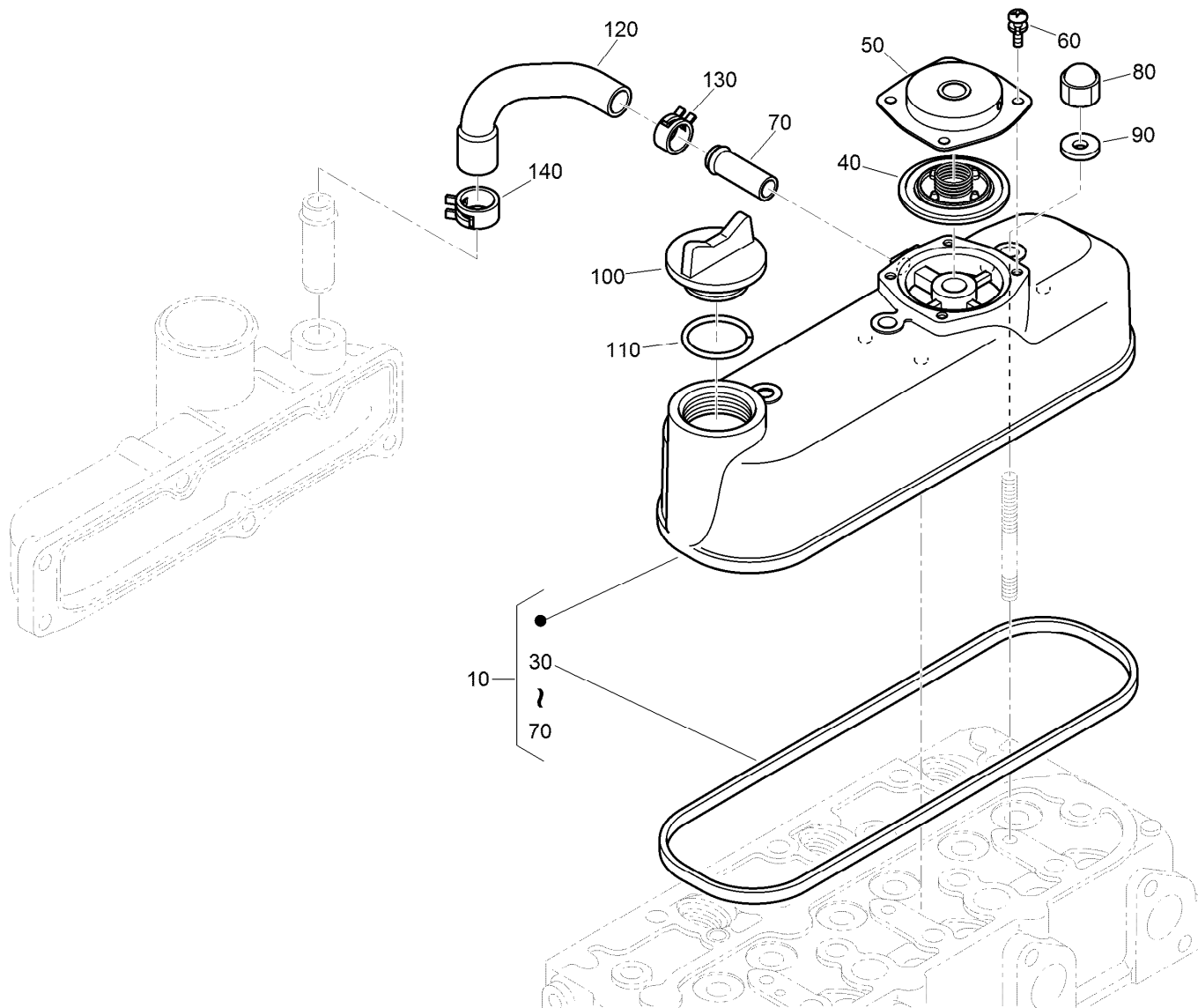
| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 10   | 130-1231    | 1    | Hook-Engine           |
| 20   | 98-9478     | 1    | Hook-Engine           |
| 30   | 100-9195    | 2    | Bolt                  |
| 40   | 130-1544    | 1    | Cylinder Head ASM     |
| 50   | 105-3705    | 1    | Cap-Sealing           |
| 60   | 98-9687     | 2    | Plug                  |
| 70   | 107-9066    | 3    | Guide-Valve, Inlet    |
| 80   | 107-9067    | 3    | Guide-Valve, Exhaust  |
| 90   | 98-9389     | 2    | Cap-Sealing           |
| 100  | 98-9479     | 12   | Bolt-Head, Cylinder   |
| 105  | 98-9647     | 2    | Bolt-Head, Cylinder   |
| 110  | 108-6573    | 1    | Gasket-Head, Cylinder |
| 120  | 98-9444     | 1    | Plug                  |



## Gear Case and Oil Filter Cartridge Assembly

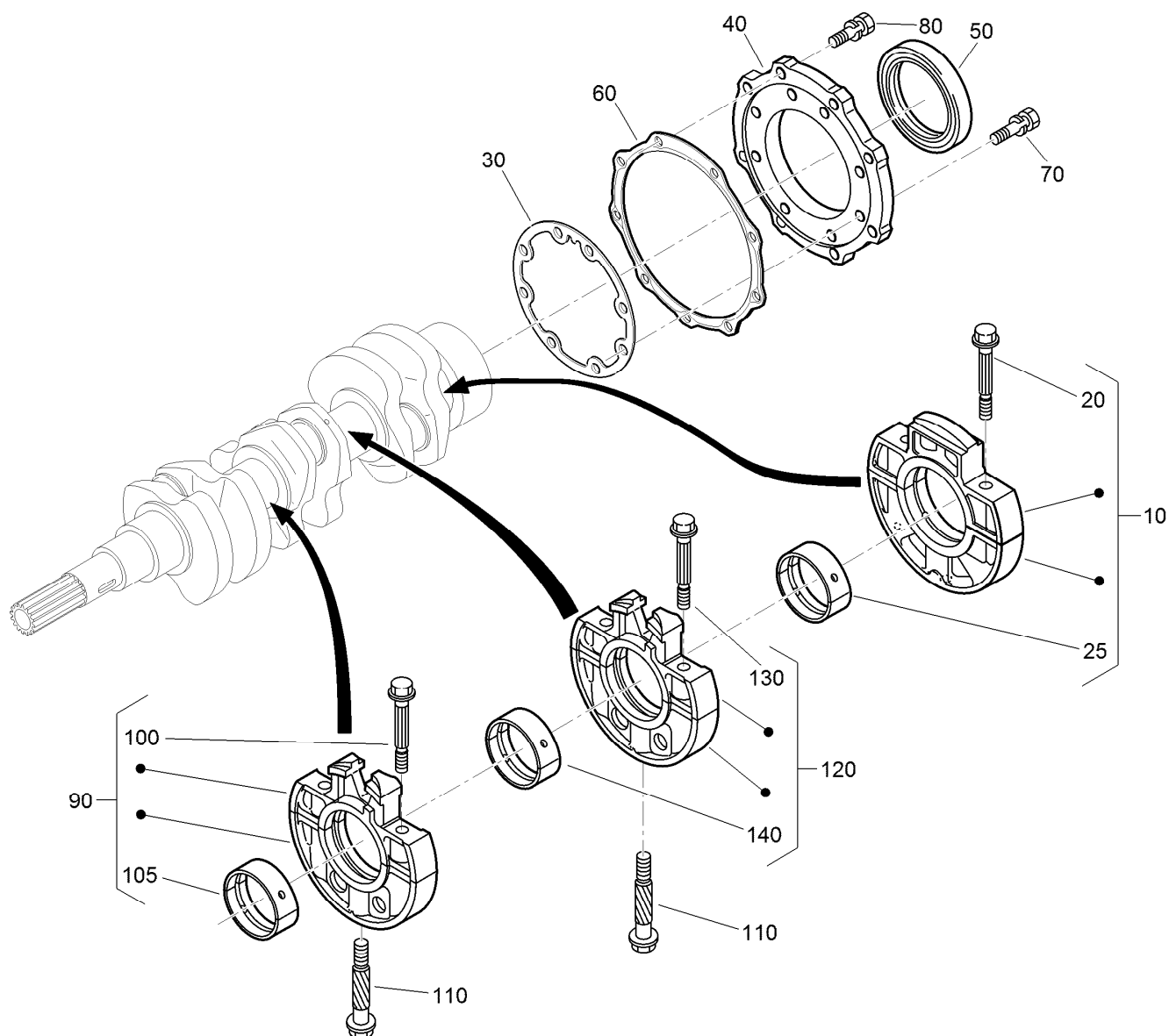
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 10   | 115-4105    | 1    | Gear Case ASM     |
| 20   | 127-0425    | 2    | Plug              |
| 25   | 98-7487     | 1    | Plug              |
| 30   | 98-7562     | 1    | Washer-Plain      |
| 40   | 98-9388     | 1    | Joint-Pipe        |
| 50   | 130-1511    | 1    | Spring            |
| 60   | 130-1510    | 1    | Valve-Relief      |
| 80   | 130-1508    | 1    | Rotor ASM         |
| 85   | 130-1509    | 1    | Cover-Pump, Oil   |
| 90   | 130-1164    | 5    | Screw-Binding     |
| 110  | 98-9633     | 1    | Gasket-Case, Gear |

| Ref. | Part Number | Qty. | Description   |
|------|-------------|------|---------------|
| 120  | 100-1765    | 3    | Bolt          |
| 130  | 125-9063    | 4    | Bolt-Sems     |
| 140  | 98-9356     | 4    | Bolt          |
| 150  | 107-9074    | 1    | Bolt          |
| 160  | 99-3510     | 1    | Bolt          |
| 170  | 105-3709    | 1    | Stud          |
| 180  | 100-2203    | 1    | Nut-Flange    |
| 200  | 119-8038    | 1    | Seal-Oil      |
| 230  | 105-3710    | 2    | Stud          |
| 240  | 99-3515     | 1    | Plug-Gearcase |
| 250  | 108-3841    | 1    | Filter-Oil    |



## Cylinder Head Cover Assembly

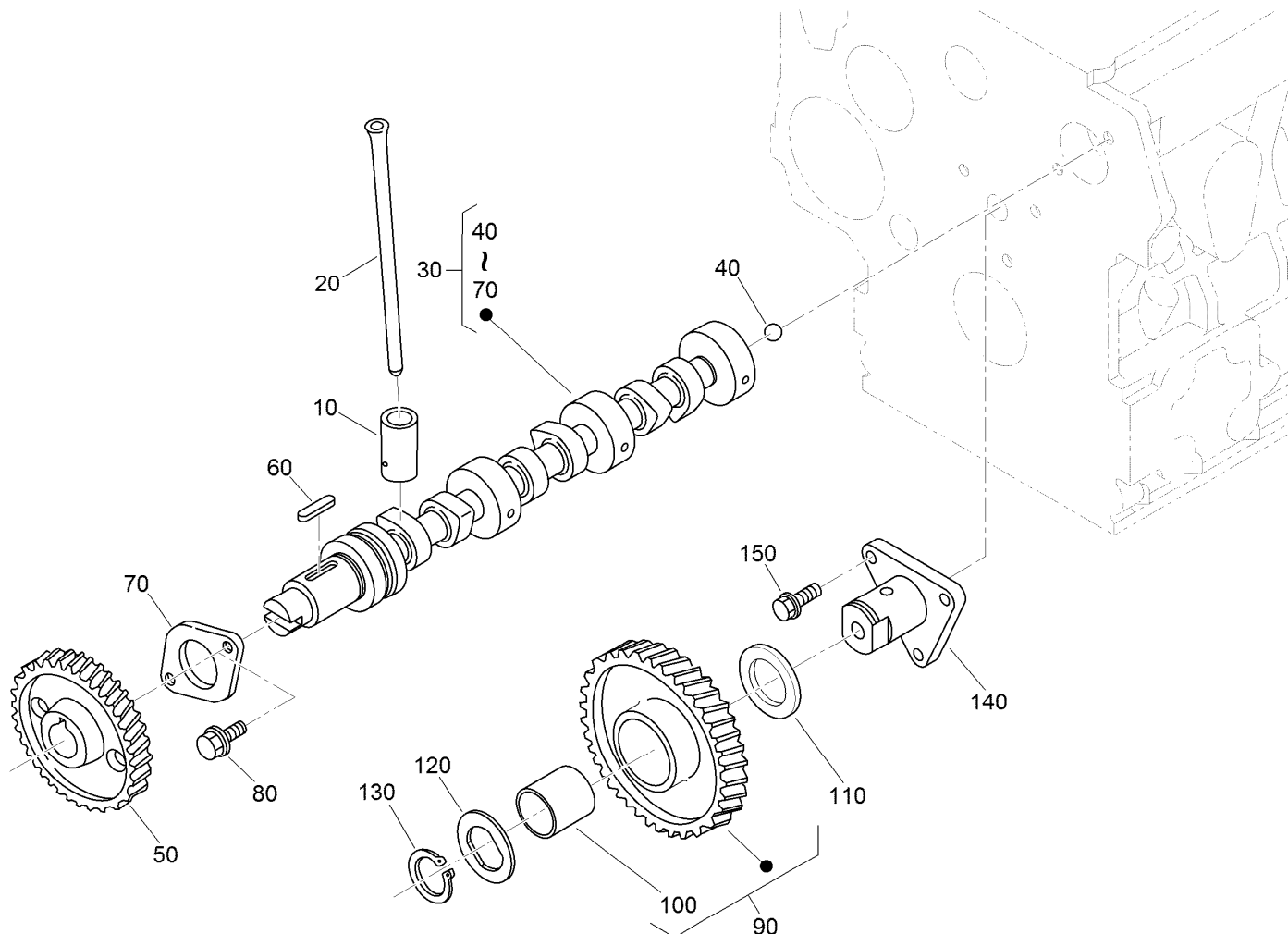
| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 10   | 139-4544    | 1    | Cylinder Cover ASM  |
| 30   | 98-9615     | 1    | Gasket-Cover, Head  |
| 40   | 110-3715    | 1    | Valve-Breather      |
| 50   | 110-3714    | 1    | Cover-Breather      |
| 60   | 98-9364     | 4    | Screw (With Washer) |
| 70   | 98-7766     | 1    | Pipe-Return, Water  |
| 80   | 98-9455     | 3    | Nut-Cap             |
| 90   | 98-9454     | 3    | Gasket              |
| 100  | 107-9075    | 1    | Plug-Filler, Oil    |
| 110  | 131-3834    | 1    | O Ring              |
| 120  | 139-4545    | 1    | Tube-Breather       |
| 130  | 108-2859    | 1    | Clamp-Hose          |
| 140  | 108-2860    | 1    | Clamp-Hose          |



## Main Bearing Case Assembly

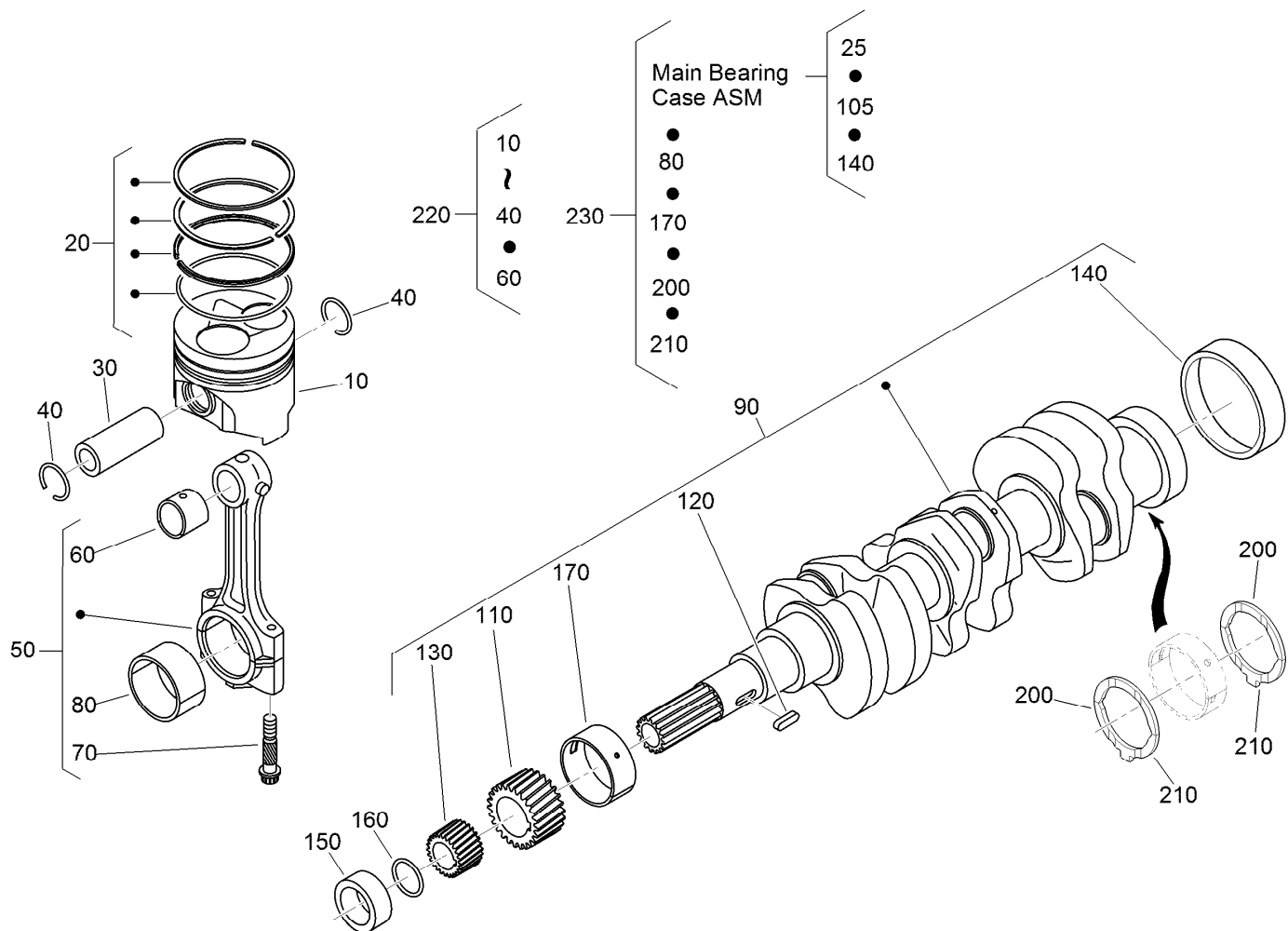
| Ref. | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 10   | 139-4546    | 1    | Bearing Case ASM          |
| 20   | 98-9484     | 2    | Bolt-Case, Bearing        |
| 25   | 115-4121    | 1    | Metal-Crankshaft (STD)    |
| 25   | 112-7039    | 1    | Metal-Crankshaft (0.2Mm)  |
| 25   | 112-7040    | 1    | Metal-Crankshaft (-0.4Mm) |
| 30   | 131-6554    | 1    | Gasket-Case, Bearing      |
| 40   | 112-7046    | 1    | Cover-Case, Bearing       |
| 50   | 112-0180    | 1    | Seal-Oil                  |
| 60   | 112-7037    | 1    | Gasket-Cover, Case        |
| 70   | 127-0441    | 8    | Bolt                      |
| 80   | 140-2467    | 9    | Bolt                      |

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 90   | 115-4106    | 1    | Main Bearing Case ASM      |
| 100  | 98-9484     | 2    | Bolt-Case, Bearing         |
| 105  | 98-9524     | 1    | Metal-Crankshaft (STD Set) |
| 105  | 127-0433    | 1    | Metal-Crankshaft (-0.2MM)  |
| 105  | 98-9531     | 1    | Bearing-Main (0.4MM)       |
| 110  | 98-9485     | 2    | Bolt-Case, Bearing         |
| 120  | 115-4107    | 1    | Main Bearing Case ASM      |
| 130  | 98-9484     | 2    | Bolt-Case, Bearing         |
| 140  | 98-9524     | 1    | Metal-Crankshaft (STD Set) |
| 140  | 127-0433    | 1    | Metal-Crankshaft (-0.2MM)  |
| 140  | 98-9531     | 1    | Bearing-Main (0.4MM)       |



## Camshaft and Idle Gear Shaft Assembly

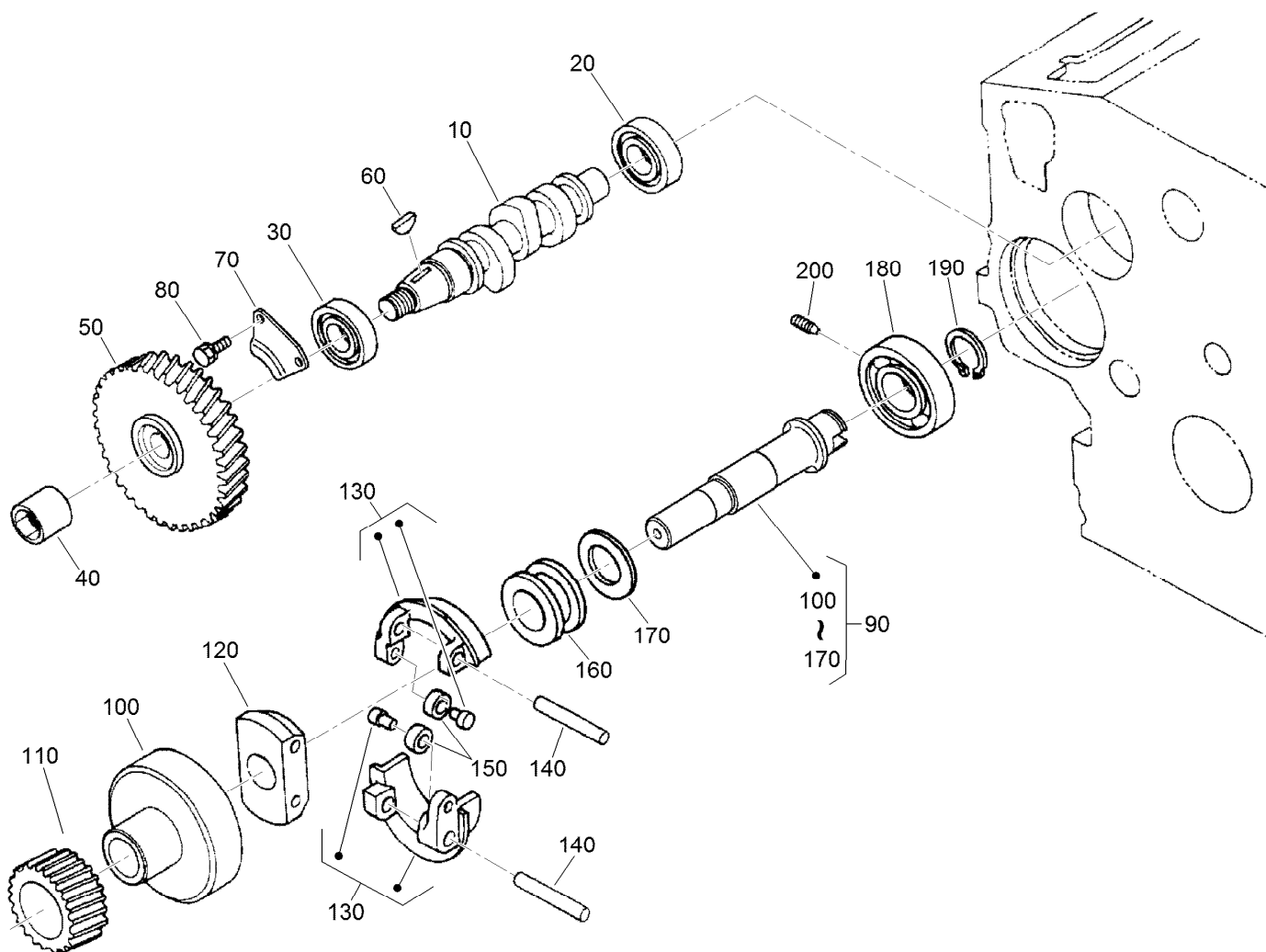
| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 10   | 112-0185    | 6    | Tappet             |
| 20   | 127-0421    | 6    | Rod-Push           |
| 30   | 130-1545    | 1    | Camshaft ASM       |
| 40   | 110-3729    | 1    | Ball               |
| 50   | 120-3116    | 1    | Camshaft ASM       |
| 60   | 98-9378     | 1    | Key-Feather        |
| 70   | 131-6555    | 1    | Stopper (Camshaft) |
| 80   | 98-7692     | 2    | Bolt               |
| 90   | 117-7584    | 1    | Idler Gear ASM     |
| 100  | 117-7585    | 1    | Bushing-Gear, Idle |
| 110  | 98-9535     | 1    | Collar-Gear, Idle  |
| 120  | 98-9536     | 1    | Collar-Gear, Idle  |
| 130  | 98-9534     | 1    | Circlip-Gear, Idle |
| 140  | 98-9533     | 1    | Shaft-Gear, Idle   |
| 150  | 98-7692     | 3    | Bolt               |



## Piston and Crankshaft Assembly

| Ref. | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 10   | 130-1546    | 3    | Piston (STD)              |
| 10   | 130-1549    | 3    | Piston (+0.50MM)          |
| 20   | 130-1506    | 3    | Piston Ring ASM (STD)     |
| 20   | 130-1507    | 3    | Piston Ring ASM (+0.50MM) |
| 30   | 98-9513     | 3    | Pin-Piston                |
| 40   | 98-9514     | 6    | Circlip-Pin, Piston       |
| 50   | 117-7586    | 3    | Connecting Rod ASM        |
| 60   | 115-3014    | 3    | Bushing-Pin, Piston       |
| 70   | 98-9517     | 6    | Bolt-Rod, Connecting      |
| 80   | 98-9553     | 3    | Bearing-Rod (STD)         |
| 80   | 98-9519     | 3    | Bearing-Rod (-0.2MM)      |
| 80   | 117-7588    | 3    | Metal-Crankpin (-0.4MM)   |
| 90   | 130-1375    | 1    | Crankshaft ASM            |
| 110  | 117-7561    | 1    | Gear-Crankshaft           |
| 120  | 98-9666     | 1    | Key                       |
| 130  | 127-0445    | 1    | Gear-Drive, Oil Pump      |
| 140  | 98-9522     | 1    | Sleeve-Crankshaft         |
| 150  | 127-0444    | 1    | Collar-Crankshaft         |

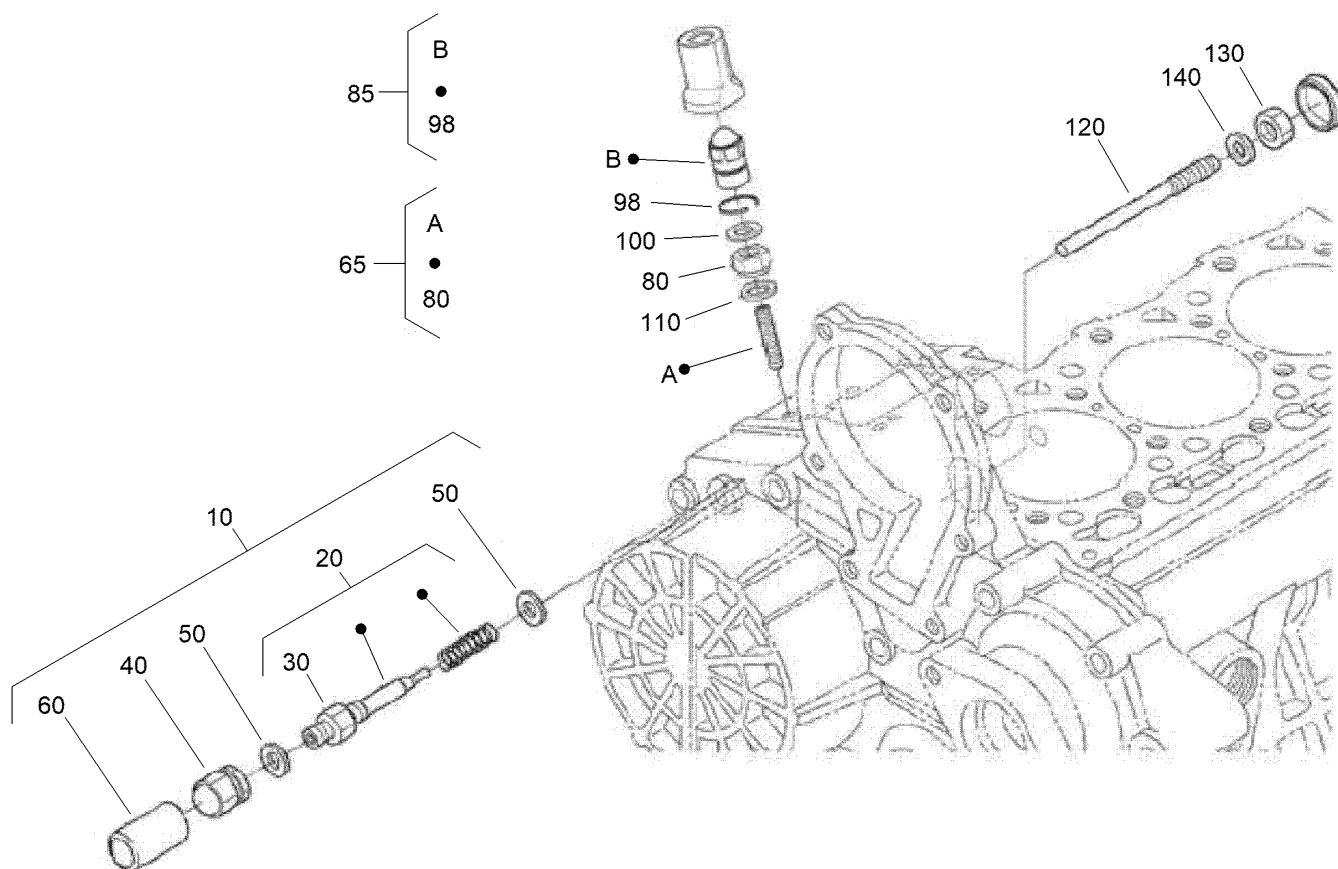
| Ref. | Part Number | Qty. | Description                        |
|------|-------------|------|------------------------------------|
| 160  | 105-3783    | 1    | O-Ring                             |
| 170  | 112-7005    | 1    | Bearing-Main (STD)                 |
| 170  | 98-9528     | 1    | Bearing-Main (-0.2MM)              |
| 170  | 127-0432    | 1    | Metal-Crankshaft (-0.4MM)          |
| 200  | 98-9413     | 2    | Bearing-Thrust (STD)               |
| 200  | 127-0416    | 2    | Metal-Side (+0.2Mm)                |
| 200  | 127-0417    | 2    | Metal-Side (+0.40Mm)               |
| 210  | 98-9688     | 2    | Bearing-Thrust (STD)               |
| 210  | 127-0437    | 2    | Metal-Side (+0.2MM)                |
| 210  | 127-0438    | 2    | Metal-Side (+0.40MM)               |
| 220  | 130-1547    | 3    | Piston Kit                         |
| 220  | 130-1548    | 3    | Piston Kit                         |
| 230  | 130-1501    | 1    | Engine Metal Kit (STD)             |
| 230  | 130-1498    | 1    | Engine Metal Kit (-0.20Mm/+0.20Mm) |
| 230  | 130-1499    | 1    | Engine Metal Kit (-0.40Mm/+0.40Mm) |



## Fuel Camshaft and Governor Shaft Assembly

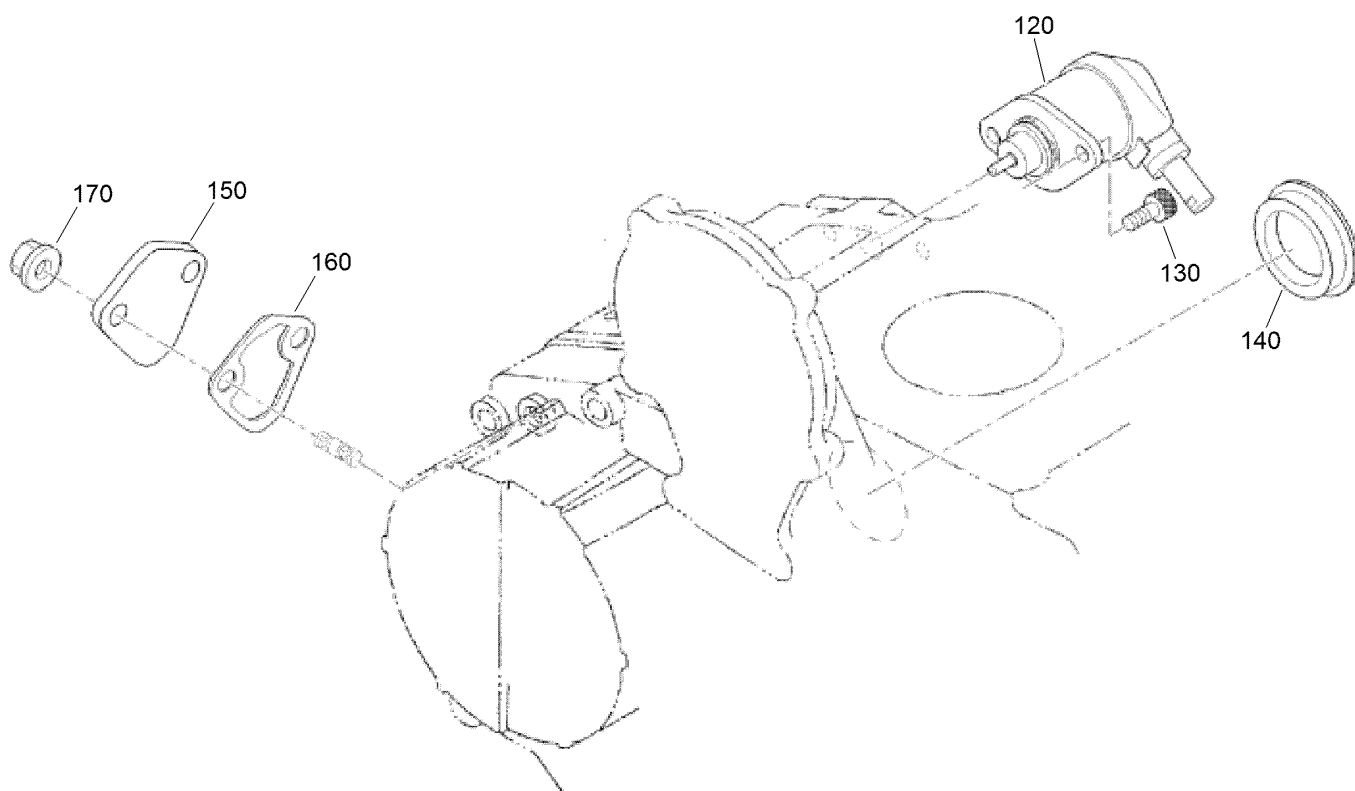
| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 10   | 139-4547    | 1    | Camshaft-Fuel          |
| 20   | 107-9077    | 1    | Bearing-Ball           |
| 30   | 107-9078    | 1    | Bearing-Ball           |
| 40   | 130-1512    | 1    | Nut                    |
| 50   | 120-2562    | 1    | Gear-Pump, Injection   |
| 60   | 98-9595     | 1    | Key-Woodruff           |
| 70   | 98-9511     | 1    | Stopper-Fuel, Camshaft |
| 80   | 98-7692     | 2    | Bolt                   |
| 90   | 98-9644     | 1    | Governor Shaft ASM     |
| 100  | 98-9562     | 1    | Holder-Gear, Governor  |

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 110  | 98-9673     | 1    | Gear-Governor           |
| 120  | 98-9561     | 1    | Holder-Weight, Governor |
| 130  | 98-9559     | 2    | Governor Weight ASM     |
| 140  | 98-9560     | 2    | Shaft-Weight, Governor  |
| 150  | 98-9692     | 2    | Roller                  |
| 160  | 98-9563     | 1    | Sleeve-Governor         |
| 170  | 98-9564     | 1    | Washer-Thrust           |
| 180  | 107-9079    | 1    | Bearing-Ball            |
| 190  | 98-9657     | 1    | Circlip-Shaft, Governor |
| 200  | 98-9565     | 1    | Screw-Set               |



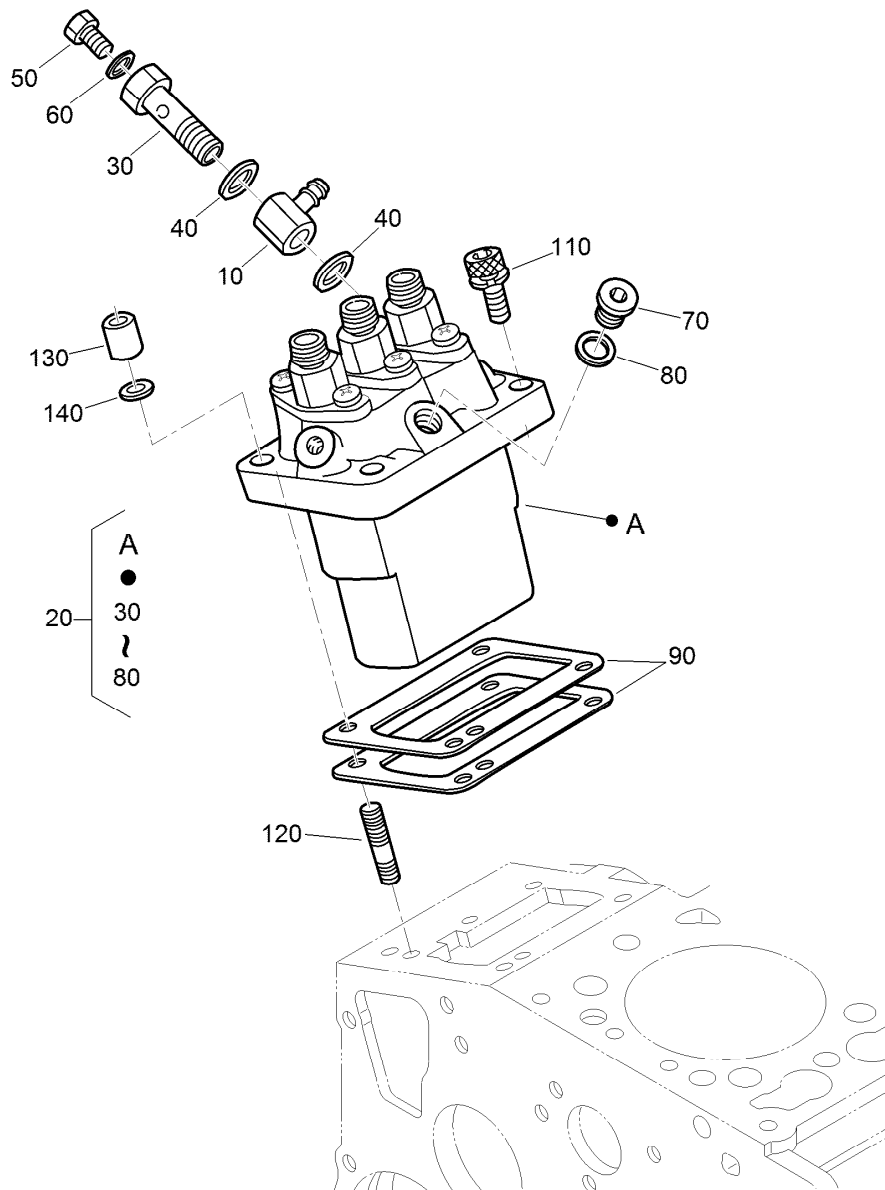
## Idle Apparatus and Stop Solenoid Assembly

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 10   | 98-9678     | 1    | Idle Apparatus ASM |
| 20   | 112-7014    | 1    | Adjusting Bolt ASM |
| 30   | 98-9439     | 1    | Nut                |
| 40   | 112-0181    | 1    | Nut                |
| 50   | 98-7654     | 2    | Gasket             |
| 60   | 98-7656     | 1    | Cap                |
| 65   | 140-2470    | 1    | Adjusting Bolt ASM |
| 80   | 139-4548    | 1    | Nut-Lock           |
| 85   | 140-2471    | 1    | Cap Nut ASM        |
| 98   | 140-2472    | 1    | Circlip-Int        |
| 100  | 98-7654     | 1    | Gasket             |
| 110  | 107-9081    | 1    | Gasket             |
| 120  | 131-6556    | 1    | Bolt               |
| 130  | 98-7572     | 1    | Nut                |
| 140  | 98-7654     | 1    | Gasket             |



## Solenoid Assembly

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 120         | 104-5155           | 1           | Solenoid-Stop      |
| 130         | 130-1155           | 2           | Screw-HSH          |
| 140         | 112-7016           | 1           | Cover-Pump         |
| 150         | 99-3514            | 1           | Cover              |
| 160         | 117-7562           | 1           | Gasket-Pump, Fuel  |
| 170         | 100-2203           | 2           | Nut-Flange         |

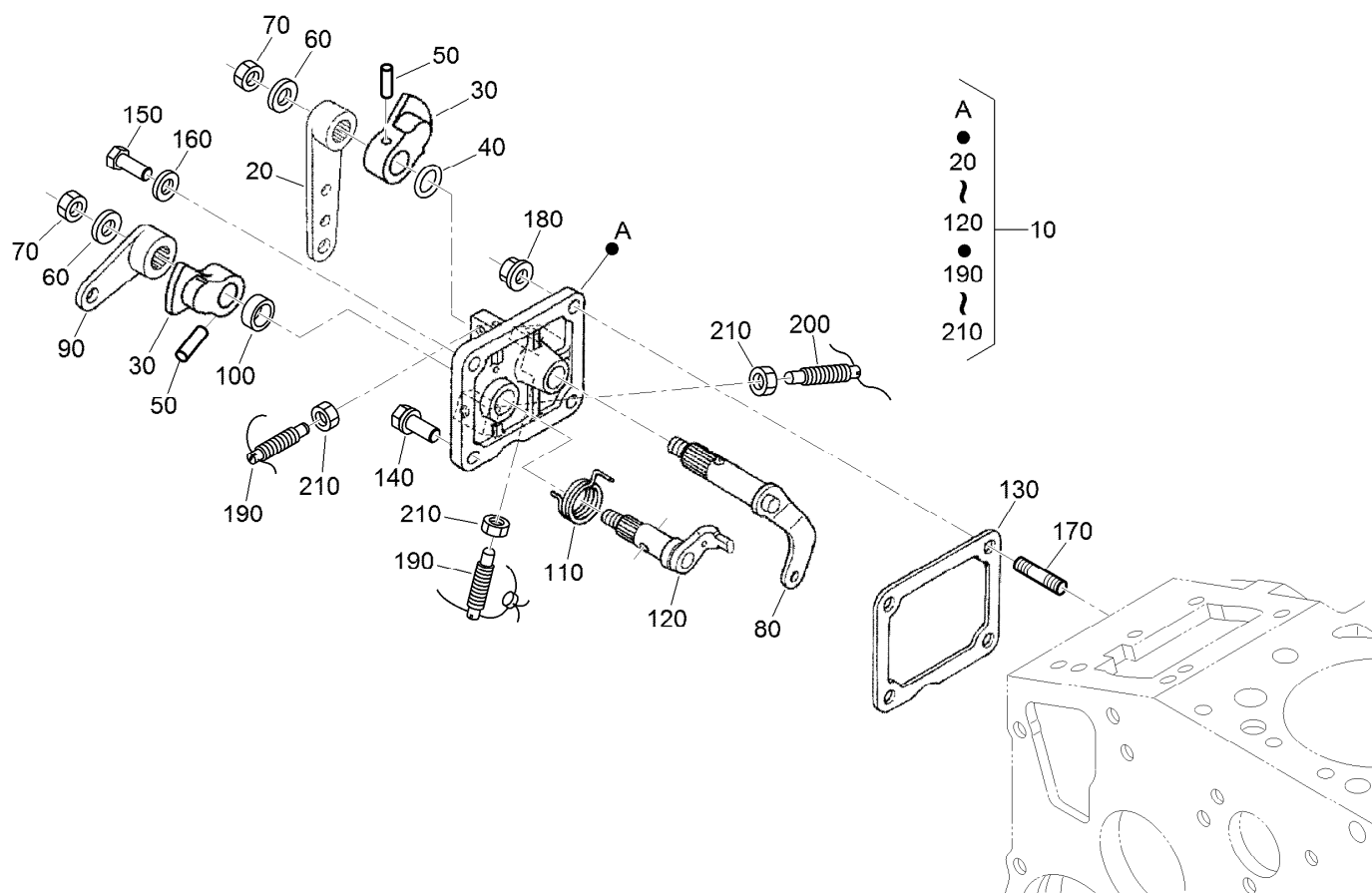


## Injection Pump Assembly

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 10   | 139-4549    | 1    | Joint-Eye               |
| 20   | 98-9643     | 1    | Injection Pump ASM      |
| 30   | 98-9464     | 1    | Bolt-Joint              |
| 40   | 98-9445     | 2    | Gasket                  |
| 50   | 98-9430     | 1    | Screw                   |
| 60   | 98-9446     | 1    | Gasket                  |
| 70   | 98-9466     | 1    | Plug                    |
| 80   | 98-9451     | 1    | Gasket                  |
| 90   | 98-9456     | 1    | Shim-Injection (0.20MM) |

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 90   | 98-9457     | 1    | Shim-Injection (0.25MM)  |
| 90   | 98-9458     | 1    | Shim-Injection (0.30MM)  |
| 90   | 115-3046    | 1    | Shim-Injection (0.35MM)  |
| 90   | 115-3045    | 1    | Shim-Injection (0.175MM) |
| 110  | 117-7564    | 2    | Bolt-Hex Soc HD          |
| 120  | 98-9438     | 2    | Stud                     |
| 130  | 98-9440     | 2    | Nut-Cap                  |
| 140  | 98-7699     | 2    | Washer-Spring            |

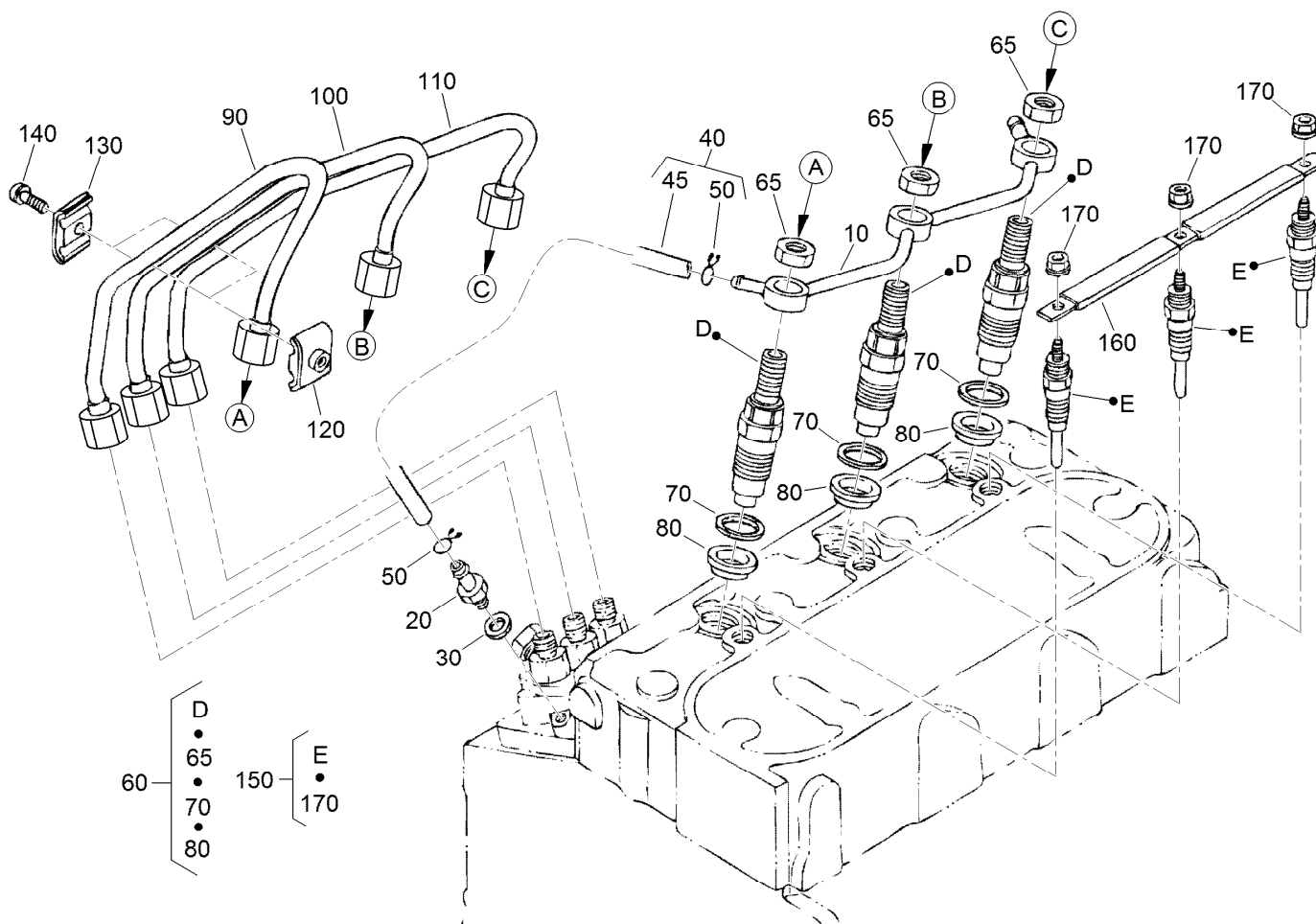




## Speed Control Plate Assembly

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 105-3735    | 1    | Control Plate ASM    |
| 20   | 98-9662     | 1    | Lever-Control, Speed |
| 30   | 98-9572     | 2    | Lever-Control, Speed |
| 40   | 105-3788    | 1    | O-Ring               |
| 50   | 98-7602     | 2    | Pin-Spring           |
| 60   | 98-9594     | 2    | Washer-Plain         |
| 70   | 98-9589     | 2    | Nut                  |
| 80   | 98-9658     | 1    | Governor Lever ASM   |
| 90   | 98-9663     | 1    | Lever-Stop, Engine   |
| 100  | 98-7601     | 1    | Seal-Oil             |
| 110  | 98-9472     | 1    | Spring-Return        |

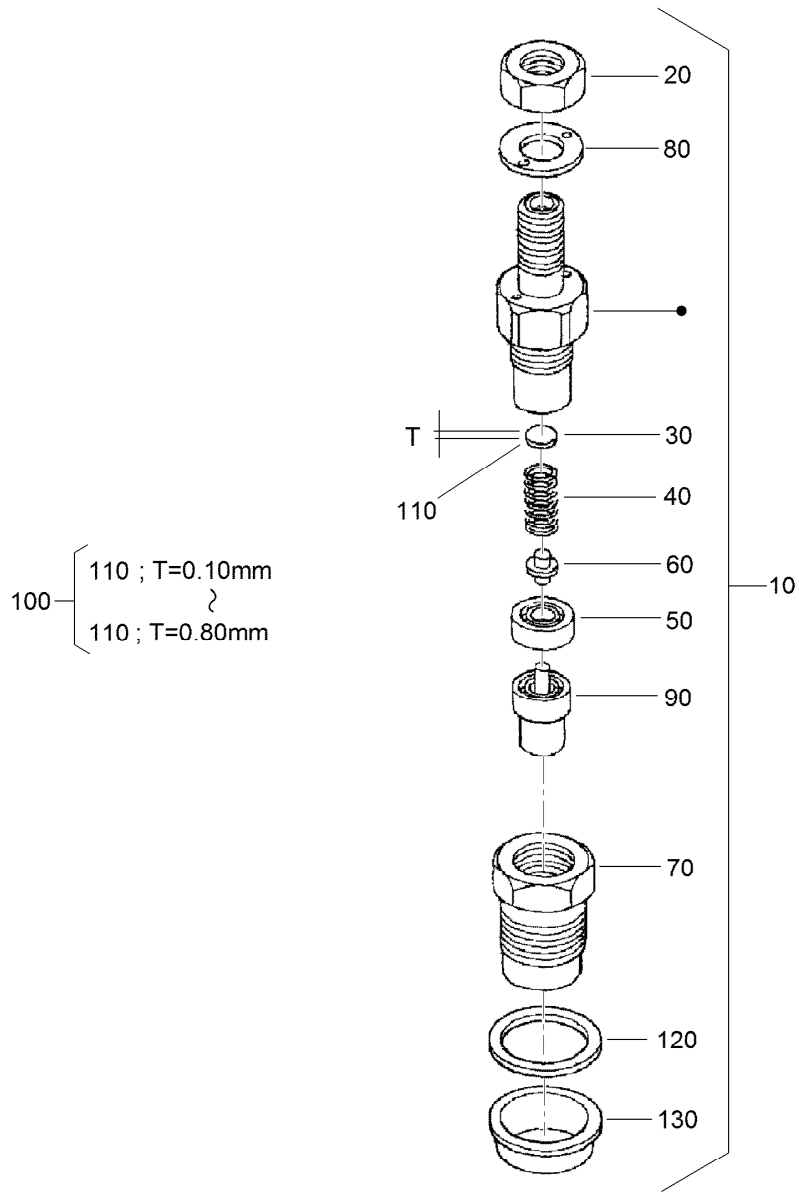
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 120  | 98-9664     | 1    | Shaft-Lever, Stop |
| 130  | 98-9637     | 1    | Gasket            |
| 140  | 98-7692     | 1    | Bolt              |
| 150  | 127-0401    | 1    | Bolt-Hex          |
| 160  | 98-7654     | 1    | Gasket            |
| 170  | 105-3710    | 2    | Stud              |
| 180  | 100-2203    | 2    | Nut-Flange        |
| 190  | 117-7565    | 2    | Bolt-Adjusting    |
| 200  | 117-7566    | 1    | Bolt-Adjusting    |
| 210  | 98-7572     | 3    | Nut               |



## Nozzle Holder and Glow Plug Assembly

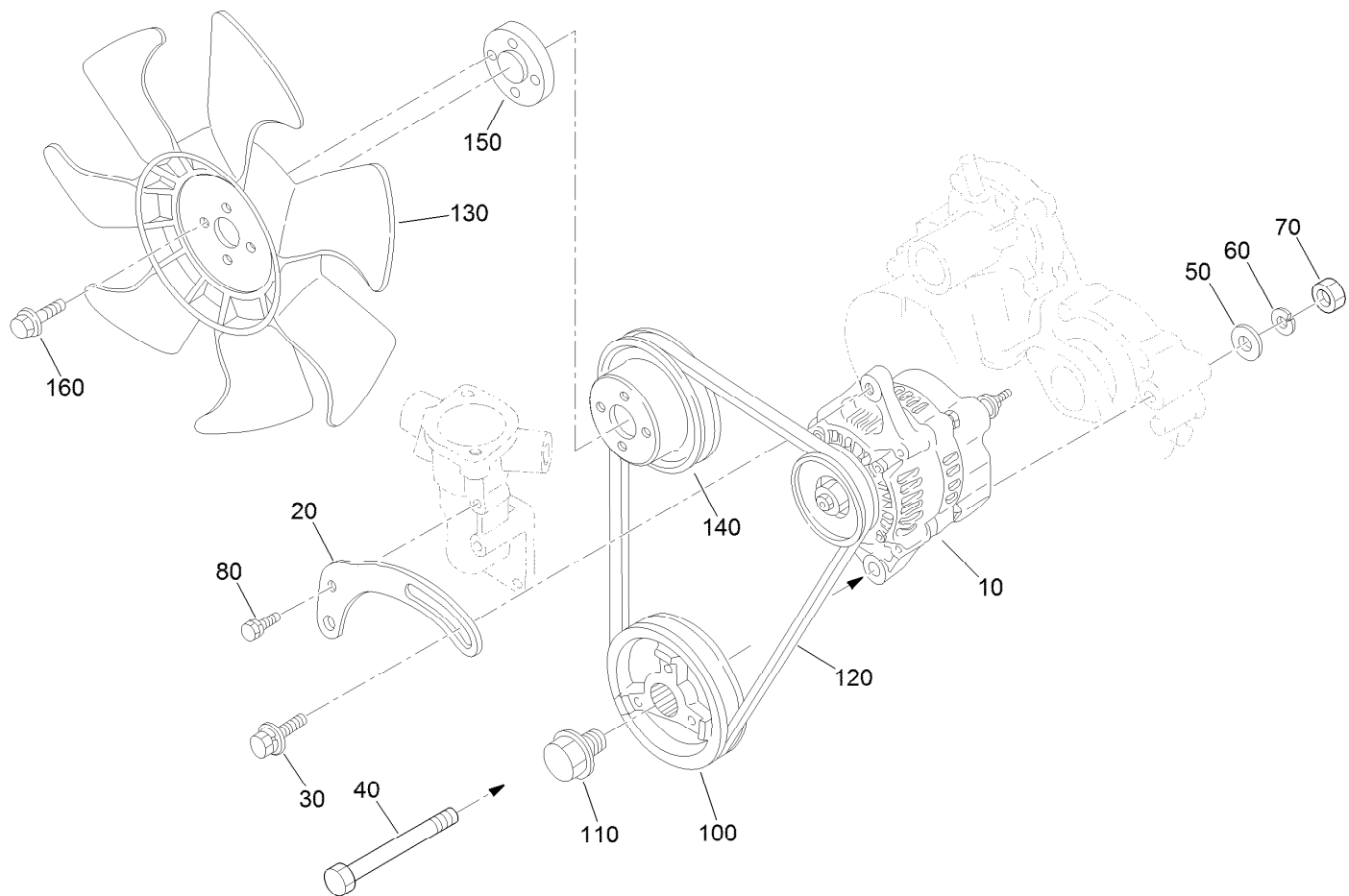
| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 10   | 98-9620     | 1    | Overflow Pipe ASM  |
| 20   | 98-9431     | 1    | Screw-Bleeder, Air |
| 30   | 98-7654     | 1    | Gasket             |
| 40   | 140-2456    | 1    | Overflow Pipe ASM  |
| 45   | 140-2457    | 1    | Pipe-Overflow      |
| 50   | 98-7671     | 2    | Clip-Pipe          |
| 60   | 115-3018    | 3    | Nozzle Holder Kit  |
| 65   | 121-2411    | 3    | Nut                |
| 70   | 98-7676     | 3    | Gasket             |
| 80   | 98-7677     | 3    | Seal-Heat          |

| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 90   | 98-9622     | 1    | Pipe-Injection   |
| 100  | 98-9654     | 1    | Pipe-Injection   |
| 110  | 98-9655     | 1    | Pipe-Injection   |
| 120  | 98-7682     | 2    | Clamp-Pipe       |
| 130  | 98-7683     | 2    | Clamp-Pipe       |
| 140  | 98-7684     | 2    | Screw (W/Washer) |
| 150  | 130-1411    | 3    | Plug-Glow        |
| 160  | 98-9631     | 1    | Cord-Plug, Glow  |
| 170  | 99-8377     | 3    | Nut-Flange       |



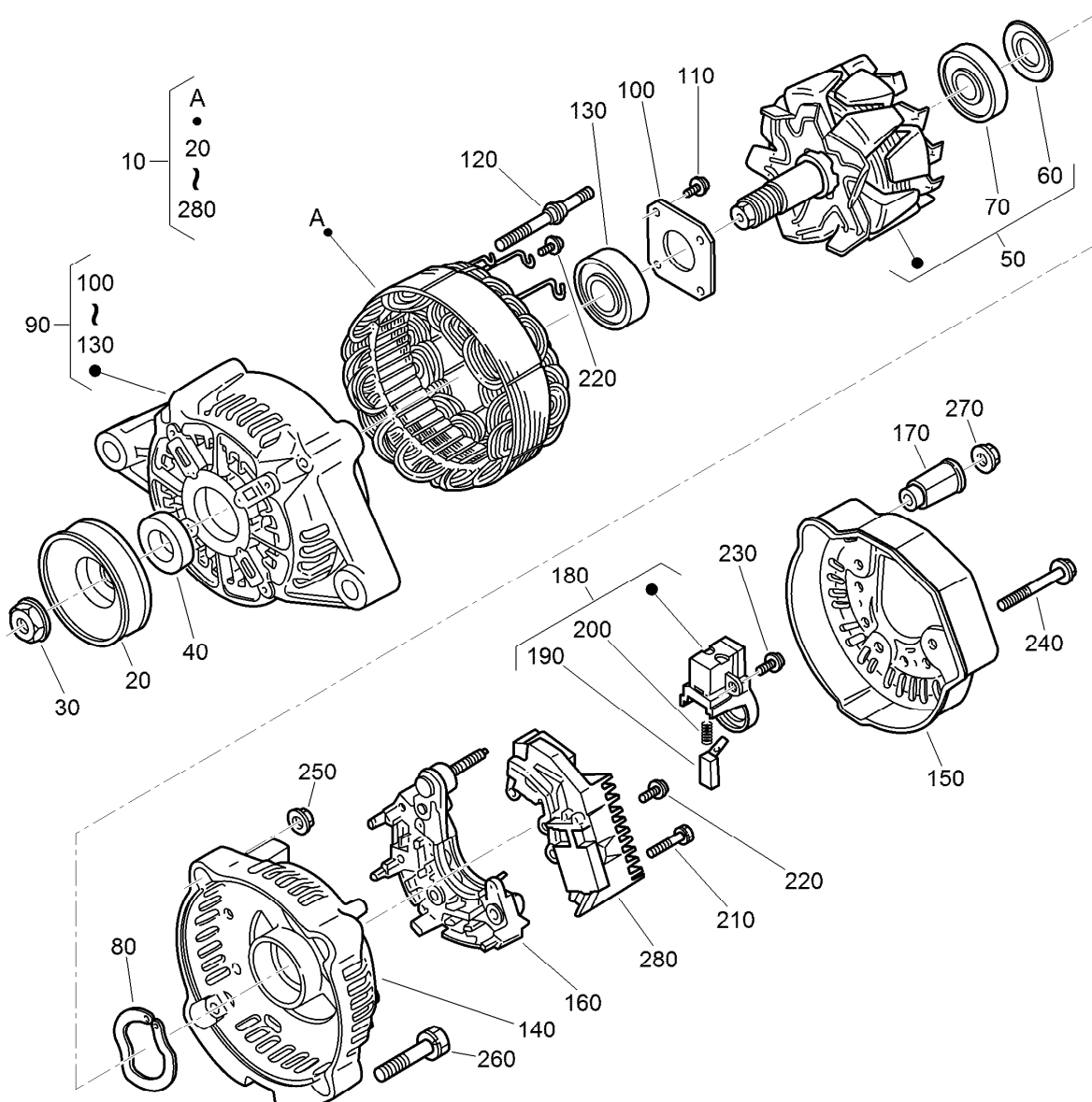
## Nozzle Holder Assembly

| Ref. | Part Number | Qty. | Description            | Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|------|-------------|------|------------------------|
| 10   | 115-3018    | 3    | Nozzle Holder Kit      | 110  | 99-8311     | 3    | Washer-Adjust (0.20MM) |
| 20   | 121-2411    | 3    | Nut                    | 110  | 99-8312     | 3    | Washer-Adjust (0.30MM) |
| 30   | 99-8302     | 3    | Washer-Adjusting       | 110  | 99-8313     | 3    | Washer-Adjust (0.40MM) |
| 40   | 99-8303     | 3    | Spring-Nozzle          | 110  | 99-8314     | 3    | Washer-Adjust (0.50MM) |
| 50   | 99-8304     | 3    | Spacer-Distance        | 110  | 99-8315     | 3    | Washer-Adjust (0.52MM) |
| 60   | 99-8305     | 3    | Rod-Push               | 110  | 99-8316     | 3    | Washer-Adjust (0.54MM) |
| 70   | 99-8306     | 3    | Nut-Nozzle             | 110  | 99-8317     | 3    | Washer-Adjust (0.56MM) |
| 80   | 99-8307     | 3    | Washer-Plain           | 110  | 99-8318     | 3    | Washer-Adjust (0.58MM) |
| 90   | 115-3020    | 3    | Piece-Nozzle           | 110  | 99-8319     | 3    | Washer-Adjust (0.80MM) |
| 100  | 99-8309     | 3    | Adjusting Washer ASM   | 120  | 98-7676     | 3    | Gasket                 |
| 110  | 99-8310     | 3    | Washer-Adjust (0.10MM) | 130  | 98-7677     | 3    | Seal-Heat              |



## Alternator, Pulley and Fan Assembly

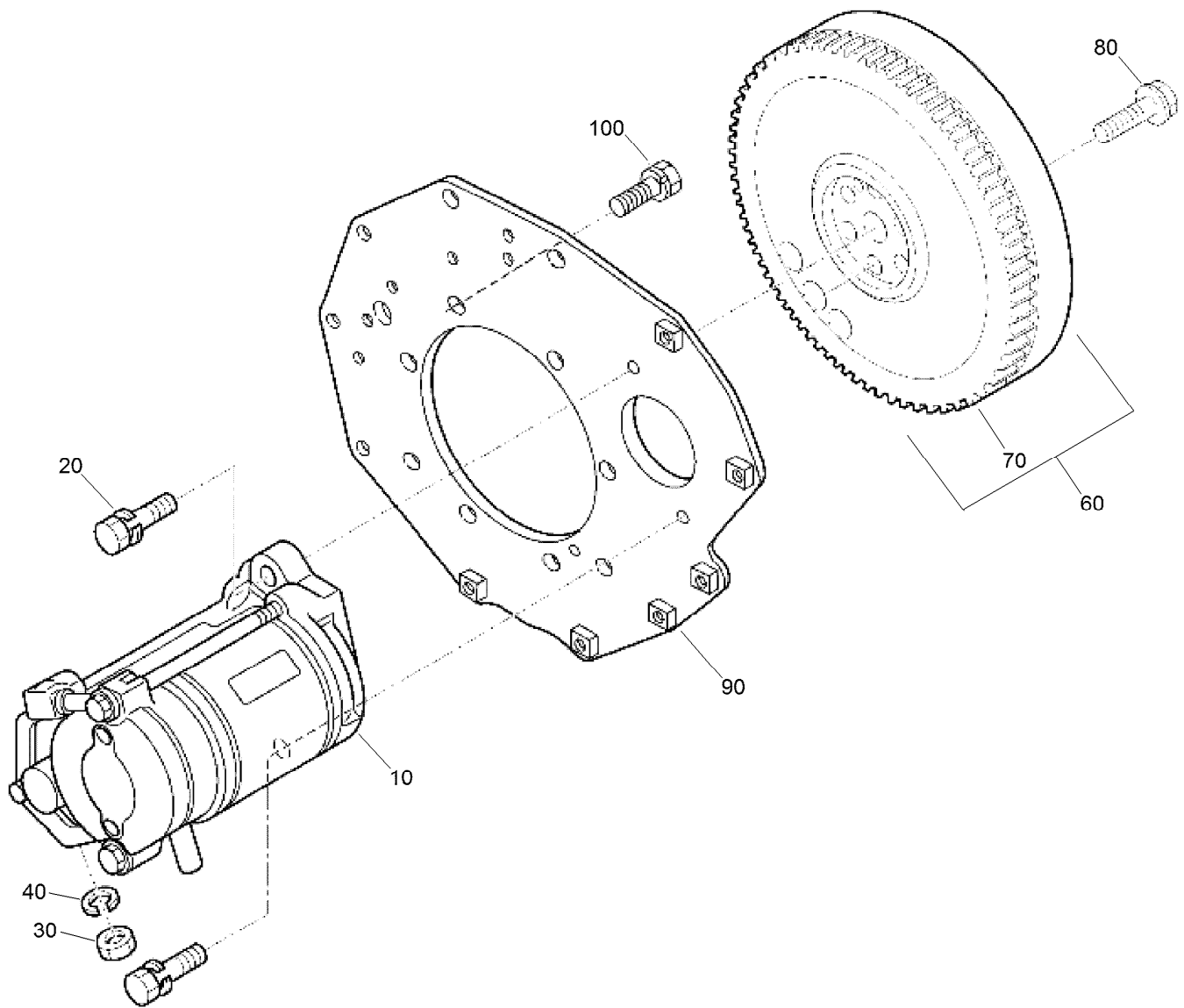
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 10   | 131-6557    | 1    | Alternator ASM    |
| 20   | 112-7047    | 1    | Stay-Dynamo       |
| 30   | 108-7088    | 1    | Bolt              |
| 40   | 98-9360     | 1    | Bolt              |
| 50   | 98-9366     | 1    | Washer-Plain      |
| 60   | 98-7738     | 1    | Washer-Spring     |
| 70   | 98-7737     | 1    | Nut               |
| 80   | 98-7692     | 1    | Bolt              |
| 100  | 98-9473     | 1    | Pulley-Drive, Fan |
| 110  | 98-9585     | 1    | Bolt              |
| 120  | 104-3494    | 1    | Belt-V            |
| 130  | 104-4246    | 1    | Fan-Engine        |
| 140  | 130-1567    | 1    | Pulley-Fan        |
| 150  | 108-2872    | 1    | Collar-Fan        |
| 160  | 108-2873    | 4    | Bolt-Flange       |



## Alternator Assembly No. 131-6557

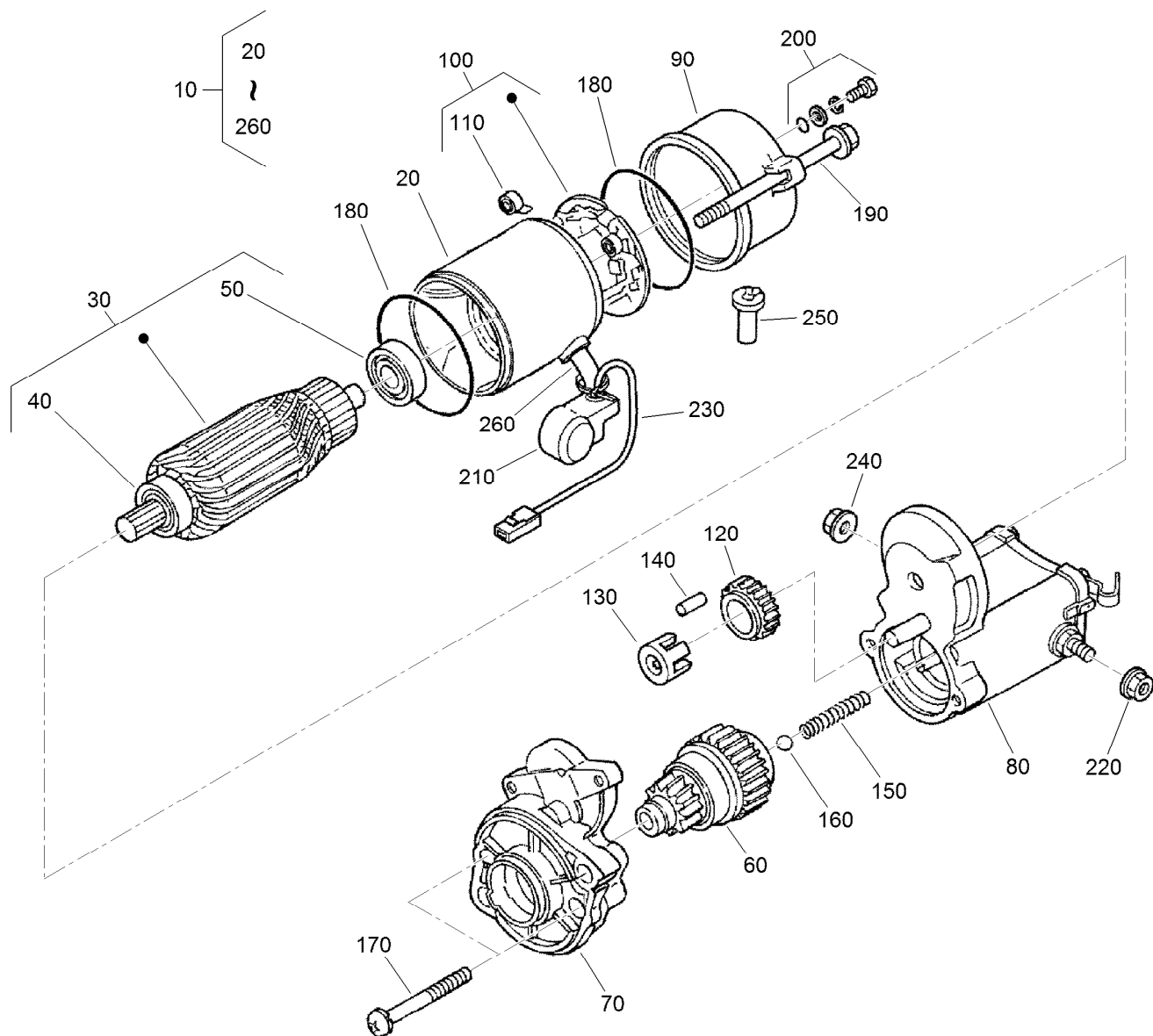
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 10   | 131-6557    | 1    | Alternator ASM    |
| 20   | 98-9453     | 1    | Pulley-Dynamo     |
| 30   | 98-7708     | 1    | Nut               |
| 40   | 98-7709     | 1    | Collar            |
| 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   | 131-6559    | 1    | Frame-End, Drive  |
| 100  | 98-7715     | 1    | Plate-Retainer    |
| 110  | 98-7716     | 4    | Screw-Head, Round |
| 120  | 98-7717     | 2    | Bolt-Through      |
| 130  | 133-2811    | 1    | Bearing           |
| 140  | 107-9087    | 1    | Frame-End         |

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 150  | 107-0140    | 1    | Cover-End          |
| 160  | 127-1612    | 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  | 140-2458    | 1    | Regulator ASM      |



## Starter and Flywheel Assembly

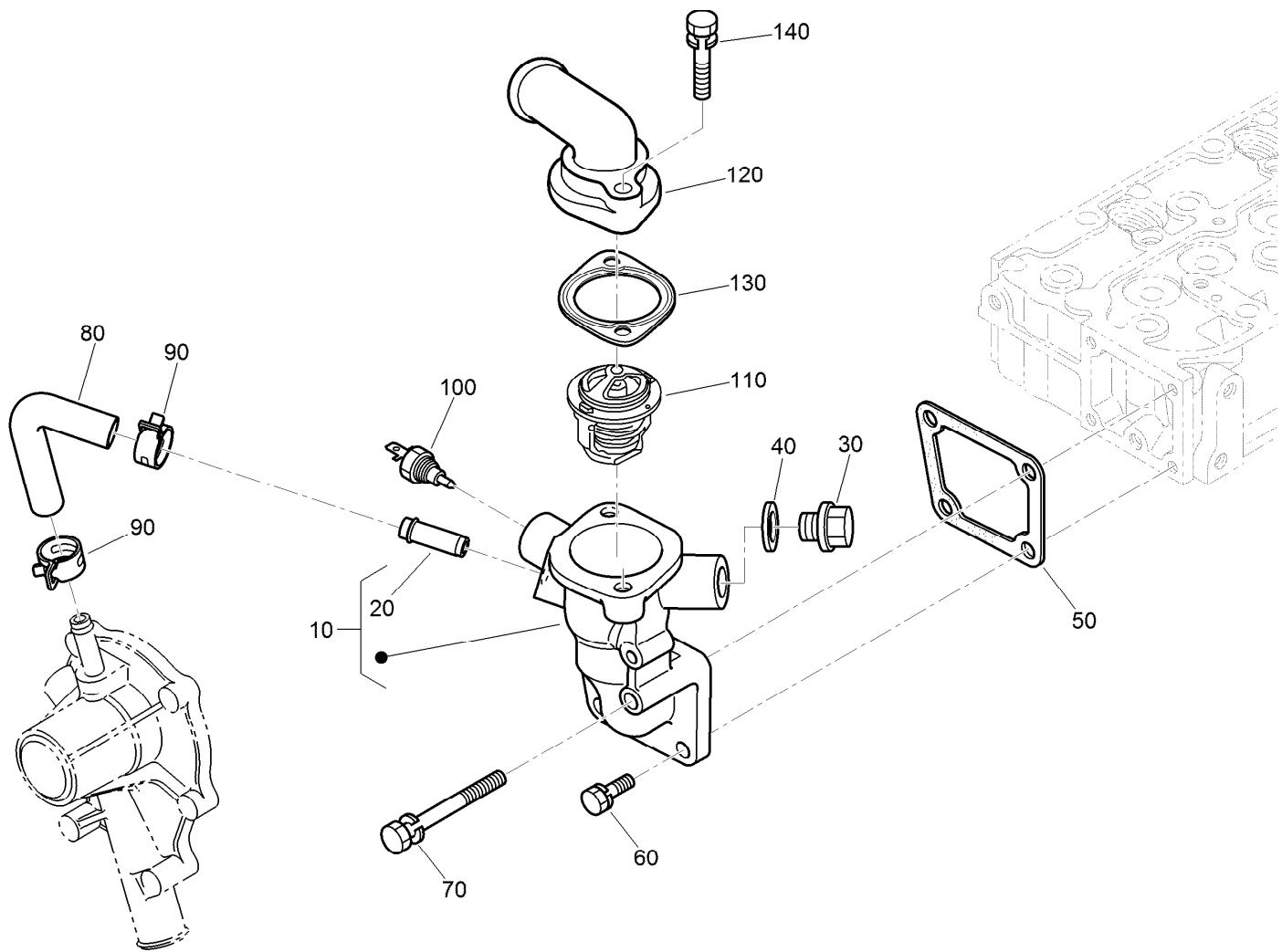
| Ref. | Part Number | Qty. | Description     |
|------|-------------|------|-----------------|
| 10   | 98-9705     | 1    | Starter ASM     |
| 20   | 98-7697     | 2    | Bolt            |
| 30   | 98-7534     | 1    | Nut             |
| 40   | 105-2893    | 1    | Washer-Spring   |
| 60   | 105-3784    | 1    | Flywheel ASM    |
| 70   | 115-3015    | 1    | Gear-Ring       |
| 80   | 98-9537     | 6    | Bolt-Flywheel   |
| 90   | 98-9486     | 1    | Plate-End, Rear |
| 100  | 98-9392     | 8    | Bolt            |



## Starter Component Assembly

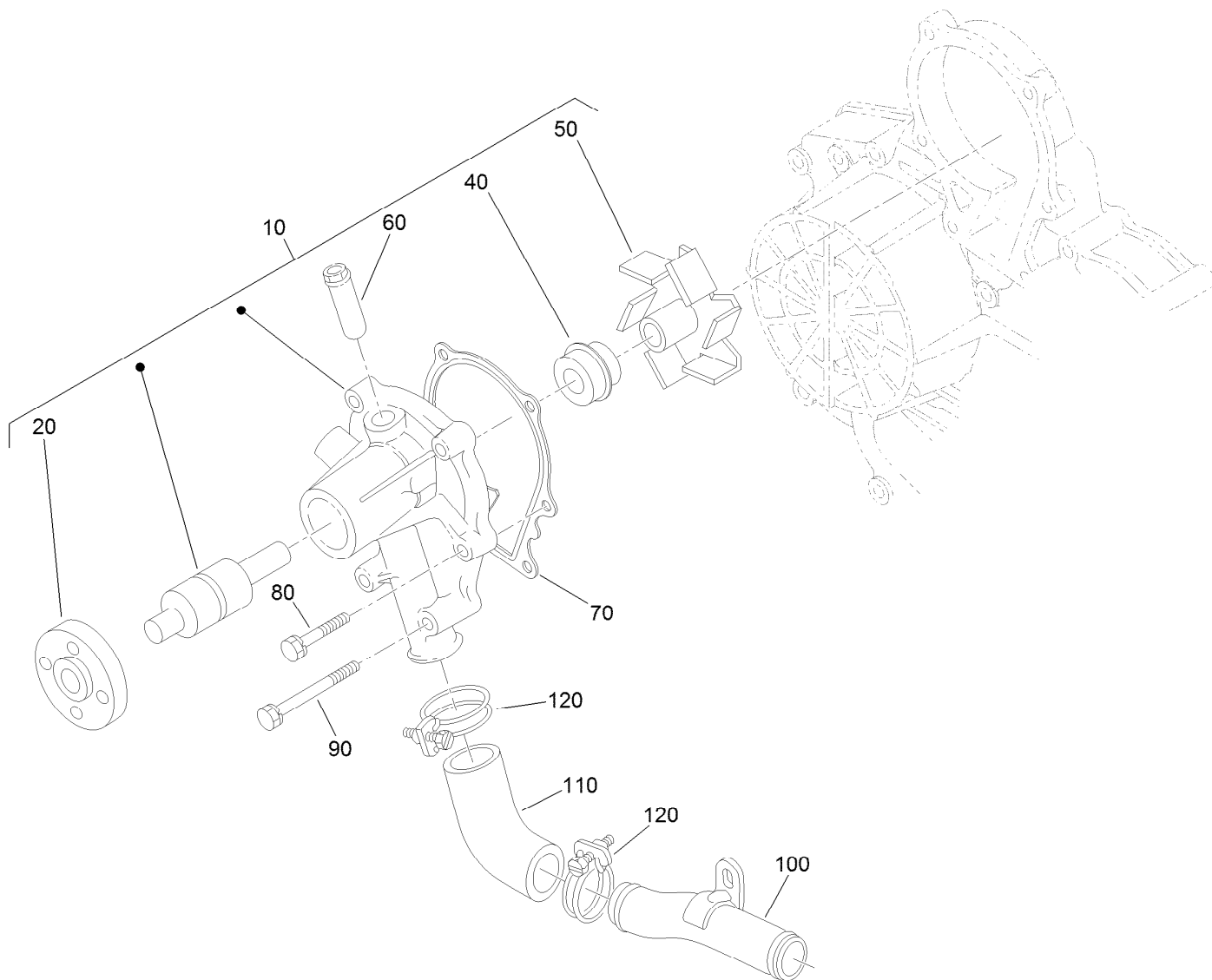
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 98-9705     | 1    | Starter ASM          |
| 20   | 104-8608    | 1    | Yoke ASM             |
| 30   | 98-7742     | 1    | Armature ASM         |
| 40   | 98-7744     | 1    | Bearing              |
| 50   | 98-7743     | 1    | Bearing              |
| 60   | 99-8373     | 1    | Clutch-Running, Over |
| 70   | 99-8374     | 1    | Frame-End, Drive     |
| 80   | 105-3746    | 1    | Magnetic Switch ASM  |
| 90   | 98-7748     | 1    | Frame-End            |
| 100  | 98-7749     | 1    | Brush Holder ASM     |
| 110  | 98-7750     | 4    | Spring-Brush         |
| 120  | 98-7751     | 1    | Gear                 |
| 130  | 98-7752     | 1    | Retainer             |

| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 140  | 98-7753     | 5    | Roller              |
| 150  | 98-7754     | 1    | Spring              |
| 160  | 98-7755     | 1    | Ball                |
| 170  | 98-7756     | 2    | Bolt                |
| 180  | 98-7757     | 2    | O-Ring              |
| 190  | 100-9240    | 2    | Bolt                |
| 200  | 98-7758     | 2    | Bolt ASM            |
| 210  | 99-8375     | 1    | Cover               |
| 220  | 99-8371     | 1    | Nut-Hex             |
| 230  | 98-9711     | 1    | Cord-Solenoid, Stop |
| 240  | 99-8376     | 1    | Nut-Hex             |
| 250  | 98-7759     | 1    | Pipe-Drain          |
| 260  | 98-9712     | 1    | Band-Cover          |



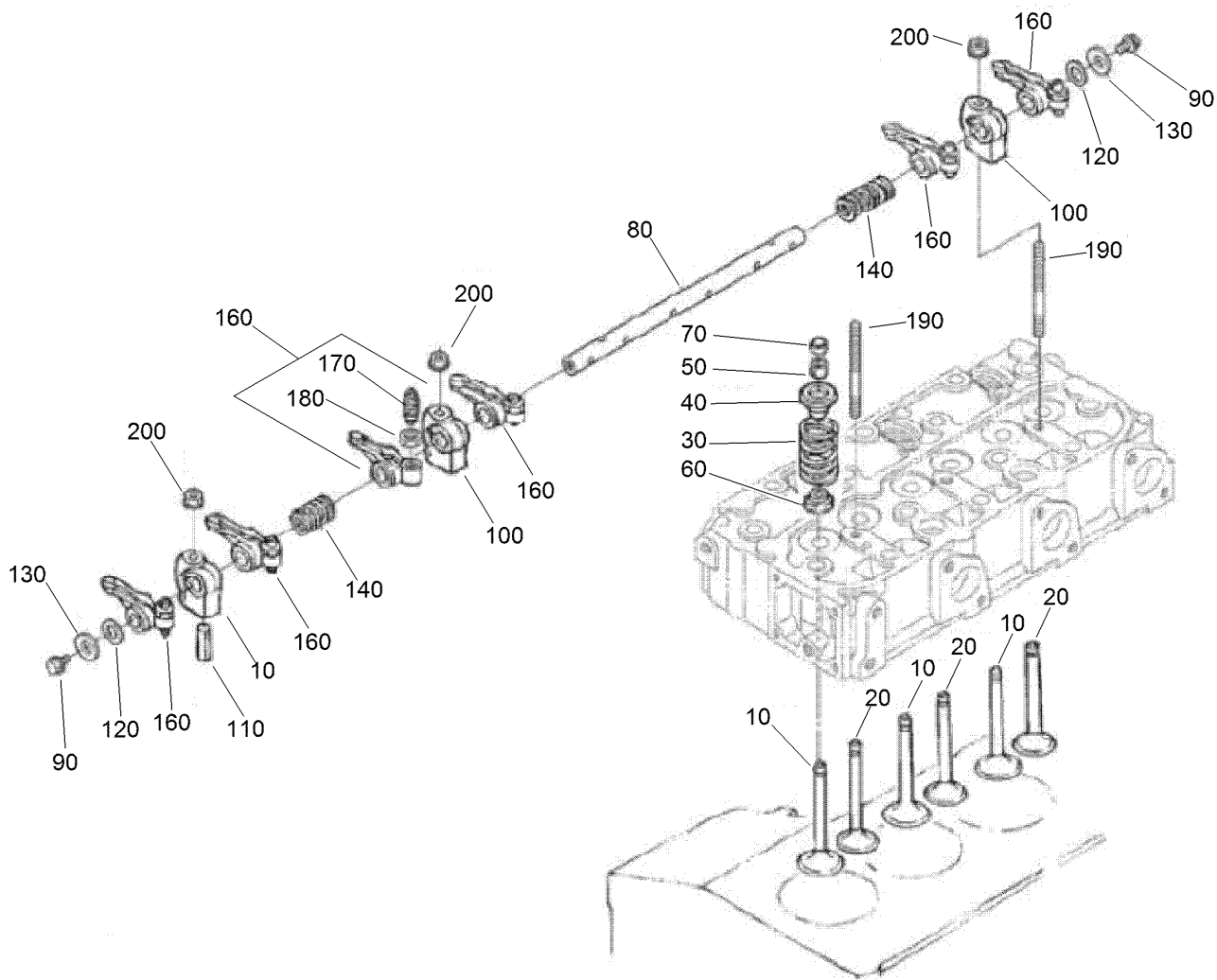
## Water Flange and Thermostat Assembly

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 98-9713     | 1    | Water Flange ASM     |
| 20   | 98-9580     | 1    | Pipe-Return, Water   |
| 30   | 105-3747    | 1    | Plug                 |
| 40   | 99-3583     | 1    | Gasket               |
| 50   | 98-9638     | 1    | Gasket-Flange, Water |
| 60   | 98-7692     | 3    | Bolt                 |
| 70   | 98-9356     | 1    | Bolt                 |
| 80   | 98-9578     | 1    | Pipe-Return, Water   |
| 90   | 125-9078    | 2    | Clamp-Hose           |
| 100  | 98-9719     | 1    | Thermoswitch         |
| 110  | 98-7778     | 1    | Thermostat ASM       |
| 120  | 104-4804    | 1    | Outlet-Water         |
| 130  | 105-3748    | 1    | Gasket-Thermostat    |
| 140  | 98-7777     | 2    | Bolt                 |



## Water Pump Assembly

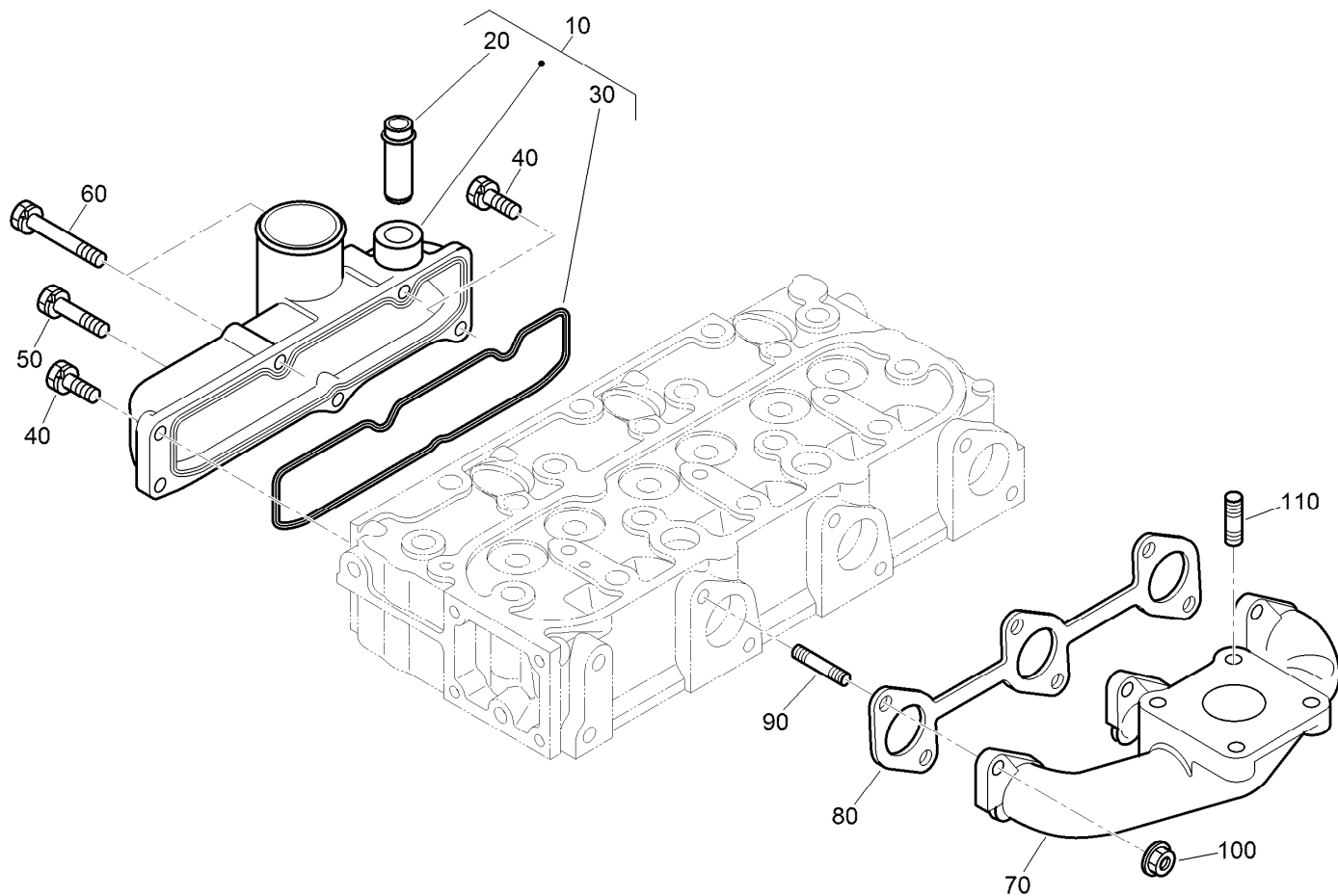
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 107-9089    | 1    | Water Pump ASM       |
| 20   | 99-3516     | 1    | Flange-Pump, Water   |
| 40   | 105-3750    | 1    | Mechanical Seal ASM  |
| 50   | 112-7017    | 1    | Impeller-Pump, Water |
| 60   | 100-1932    | 1    | Pipe-Return, Water   |
| 70   | 99-3454     | 1    | Gasket-Pump, Water   |
| 80   | 98-9353     | 4    | Bolt                 |
| 90   | 107-9090    | 2    | Bolt                 |
| 100  | 98-9716     | 1    | Pipe-Water           |
| 110  | 107-9091    | 1    | Pipe-Water           |
| 120  | 127-0439    | 2    | Clamp-Hose           |



## Valve and Rocker Arm Assembly

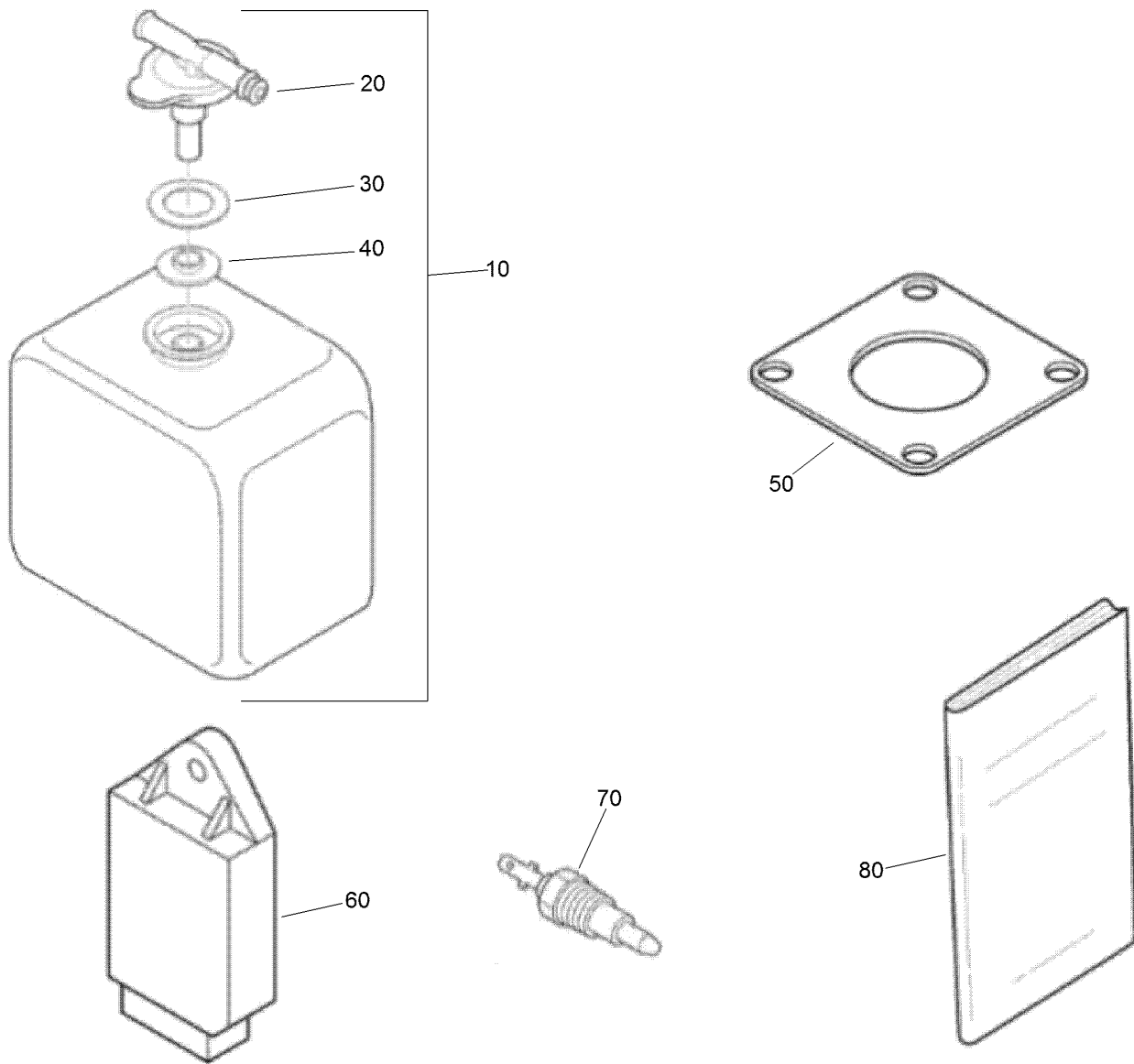
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 140-2459    | 3    | Valve-Inlet          |
| 20   | 140-2460    | 3    | Valve-Exhaust        |
| 30   | 98-9648     | 6    | Spring-Valve         |
| 40   | 107-9092    | 6    | Retainer-Spring      |
| 50   | 117-7572    | 6    | Collet-Spring, Valve |
| 60   | 99-8385     | 6    | Seal-Stem, Valve     |
| 70   | 98-9497     | 6    | Cap-Valve            |
| 80   | 130-1248    | 1    | Shaft-Arm, Rocker    |
| 90   | 99-8363     | 2    | Bolt-Flange          |
| 100  | 98-9505     | 3    | Bracket-Arm, Rocker  |

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 110  | 105-3758    | 1    | Pin-Spring               |
| 120  | 98-9507     | 2    | Washer-Shaft, Rocker Arm |
| 130  | 110-3832    | 2    | Washer-Plain             |
| 140  | 98-9504     | 2    | Spring-Arm, Rocker       |
| 160  | 112-7020    | 6    | Rocker Arm ASM           |
| 170  | 98-9502     | 6    | Screw-Adjusting          |
| 180  | 98-9503     | 6    | Nut                      |
| 190  | 98-9506     | 3    | Stud                     |
| 200  | 131-6563    | 3    | Nut-Flange               |



## Inlet and Exhaust Manifold Assembly

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 10   | 107-7843    | 1    | Manifold Inlet ASM       |
| 20   | 98-9492     | 1    | Joint-Pipe, Breather     |
| 30   | 98-9609     | 1    | Gasket-Manifold, Inlet   |
| 40   | 127-0403    | 3    | Bolt-Flange              |
| 50   | 98-9353     | 1    | Bolt                     |
| 60   | 125-9063    | 2    | Bolt-Sems                |
| 70   | 107-9093    | 1    | Manifold-Exhaust         |
| 80   | 99-8327     | 1    | Gasket-Manifold, Exhaust |
| 90   | 98-9588     | 6    | Stud                     |
| 100  | 98-9665     | 6    | Nut                      |
| 110  | 98-7769     | 4    | Stud                     |



## Miscellaneous Engine Parts

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 10          | 104-9318           | 1           | Bottle-Overflow    |
| 20          | 115-4132           | 1           | Cap                |
| 30          | 105-3755           | 1           | Gasket             |
| 40          | 105-3756           | 1           | Plate              |
| 50          | 99-8343            | 1           | Gasket-Muffler     |
| 60          | 140-2463           | 1           | Controller-Glow    |
| 70          | 140-2462           | 1           | Thermoswitch       |
| 80          | 140-2461           | 1           | Manual-Operator    |

# Attachments and Accessories

## For 30807 Groundsmaster 3500-D Rotary Mower

| Product Name                                                 | Model/Part  |
|--------------------------------------------------------------|-------------|
| Operator Cooling Fan .....                                   | 03247       |
| Switch Panel-Universal Sunshade.....                         | 03248       |
| Roller Scraper Kit.....                                      | 104-5168    |
| Blade-High Lift .....                                        | 104-5183    |
| Blade-Angle Sail .....                                       | 105-9810-03 |
| Blade-Atomic .....                                           | 107-0235-03 |
| 27in Blade Service Pack (qty 6) .....                        | 108-1462    |
| Blade-27in Combo .....                                       | 108-9026    |
| Wireless Hourmeter .....                                     | 115-4754    |
| External Antenna Kit, Wireless Hourmeter System .....        | 115-9524    |
| Base Station Kit, Wireless Hourmeter System .....            | 115-9542    |
| Repeater Kit, Wireless Hourmeter System .....                | 115-9543    |
| Roller Asm (UHMW) .....                                      | 131-7800    |
| Hi-Back Seat Cover .....                                     | 133-1308    |
| PX Hydraulic Fluid (5 Gal) .....                             | 133-8086    |
| PX Hydraulic Fluid (55 Gal).....                             | 133-8087    |
| Ballast Kit (27in C/U) .....                                 | 136-2881    |
| Wheel Weight Kit .....                                       | 136-3315    |
| LH Liftarm Assembly.....                                     | 136-3421    |
| RH Liftarm Assembly .....                                    | 136-3423    |
| 3in Dia, 27in Sectional Roller Assembly.....                 | 137-6145    |
| Beacon Kit .....                                             | 138-2699    |
| Sunshade Work Lights Kit.....                                | 138-2700    |
| Power Harness Kit .....                                      | 138-2993    |
| Hydraulic Booster-10.5 fl oz.....                            | 145-5286    |
| Bimini Sunshade for 2-Post Roll-Over Protection System ..... | 30358       |
| Premium Seat Kit.....                                        | 30629       |
| White Universal Sunshade .....                               | 30669       |
| Red Universal Sunshade .....                                 | 30671       |
| 27in Rotary Cutting Unit.....                                | 30834       |
| Leaf Mulching Kit .....                                      | 30836       |
| LED Work Light Kit.....                                      | 31692       |
| New Red Paint - Gallon .....                                 | 361-11      |
| Dark Metallic Gray Aerosol Paint .....                       | 361-12      |
| Semi-Gloss Black Spray Paint.....                            | 361-9       |
| 1000 Hour MVP Kit .....                                      | 44963       |
| Air Dry Red Paint - Qt .....                                 | 5340        |

**Notes:**

**Notes:**



**Count on it.**