



Form No. 3482-961 Rev A

**Count on it.**

# Parts Catalog

## **Groundsmaster® 3200**

### **All-Wheel Drive Traction Unit**

Model No. 31901A—Serial No. 421000000 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

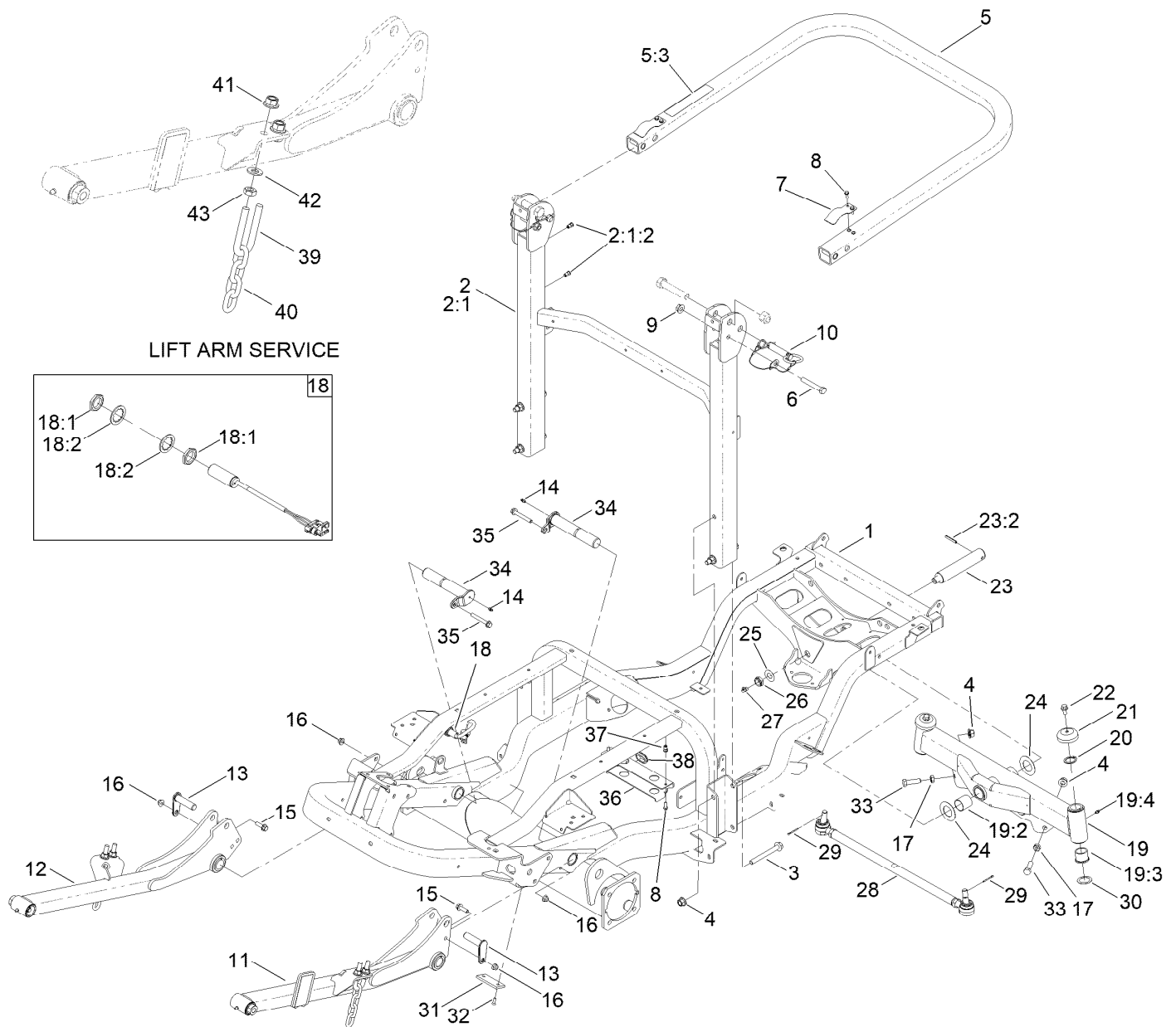
In an illustration, if a reference number indicates more than one part, the reference number has the form nX y. The n represents the quantity of the part, the X is the multiplication symbol, and the y represents the reference number.

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

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# Frame and Roll-Over Protection System Assembly

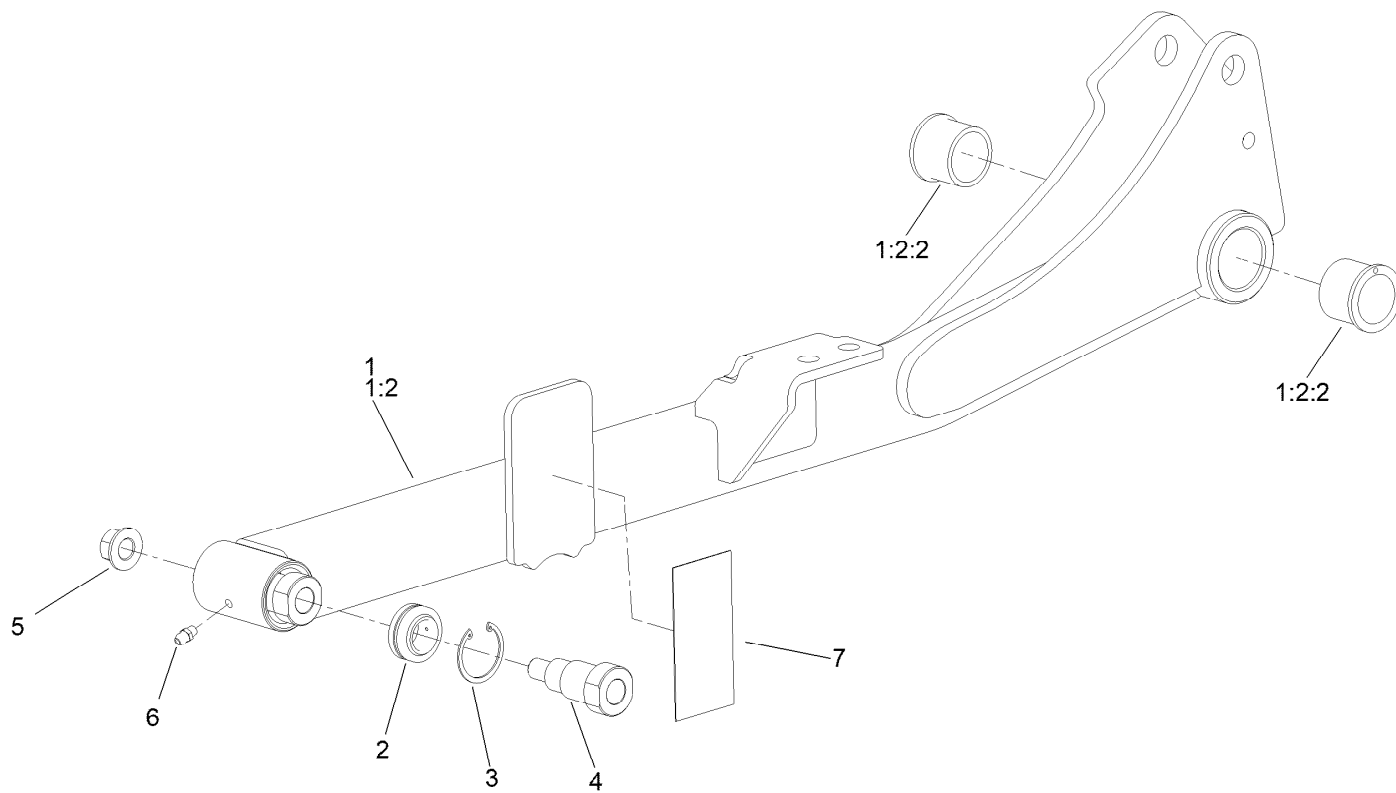


# Frame and Roll-Over Protection System Assembly (continued)

| <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           | 145-6050SP         | 1           | Frame ASM                    | 19:4        | 302-5              | 2           | Fitting-Grease           |
| 2           | 139-6254SP         | 1           | ROPS ASM, Lower              | 20          | 32151-77           | 2           | Ring-Retaining, External |
| 2:1         |                    | 1           | Lower ROPS ASM ●             | 21          | 69-8890            | 2           | Cap-Spindle              |
| 2:1:2       | 138-2758           | 4           | Nut-Clinch,Hex               | 22          | 3234-1             | 2           | Screw-HHF                |
| 3           | 117-3176           | 4           | Screw-HHF                    | 23          | 140-6101           | 1           | Pin ASM-Axle Pivot       |
| 4           | 139-1689           | 6           | Nut-HF                       | 23:2        | 32121-32           | 1           | Pin-Roll                 |
| 5           | 138-7470           | 1           | ROPS ASM, Upper              | 24          | 99-8432            | 2           | Washer-Thrust            |
| 5:3         | 108-2073           | 1           | Decal-Warning                | 25          | 71-4540            | 1           | Washer-Thrust            |
| 6           | 325-13             | 2           | Screw-HH                     | 26          | 3296-15            | 1           | Nut-Lock, NI             |
| 7           | 110-5696           | 2           | Spring-Leaf                  | 27          | 302-33             | 1           | Fitting-Grease           |
| 8           | 32105-15           | 6           | Screw-HWH                    | 28          | 144-3900           | 1           | Tie Rod ASM              |
| 9           | 32128-23           | 2           | Nut-HF                       | 29          | 3272-12            | 2           | Pin-Cotter               |
| 10          | 161-4477           | 2           | ROPS Pin ASM                 | 30          | 76-2980            | 2           | Washer-Thrust            |
| 11          | 144-3943           | 1           | Lift Arm ASM. LH             | 31          | 138-4452           | 2           | Pad-Stop, Deck           |
| 12          | 144-3942           | 1           | Lift Arm ASM. RH             | 32          | 3289-4             | 4           | Screw-FH                 |
| 13          | 138-7489           | 2           | Pin (Machined)               | 33          | 325-7              | 2           | Screw-HH                 |
| 14          | 302-40             | 2           | Fitting-Grease, 90 DEG       | 34          | 138-4593           | 2           | Pin                      |
| 15          | 119-4061           | 2           | Screw-HHF                    | 35          | 133-9682           | 2           | Screw-Hfh                |
| 16          | 119-4042           | 4           | Nut-HF, NI                   | 36          | 147-0045-0P        | 1           | Channel-Harness Retainer |
| 17          | 3218-5             | 2           | Nut-Jam                      | 37          | 138-2758           | 2           | Nut-Clinch,Hex           |
| 18          | 115-5300           | 1           | Sensor, Proximity Sensor ASM | 38          | 240-5              | 1           | Grommet                  |
| 18:1        | 117-3207           | 2           | Nut-Hex                      | 39          | 104-0108           | 2           | U-Bolt                   |
| 18:2        | 117-3208           | 2           | Washer-Lock, Internal Tooth  | 40          | 95-6231            | 2           | Chain-HOC                |
| 19          | 161-2404           | 1           | Axle ASM                     | 41          | 139-1689           | 4           | Nut-HF                   |
| 19:2        | 99-6964            | 2           | Bushing-Axle                 | 42          | 3256-26            | 4           | Washer-Flat              |
| 19:3        | 104-0015           | 4           | Bushing-Flange               | 43          | 3218-5             | 4           | Nut-Jam                  |

● Not serviced separately

# LH Lift Arm Assembly No. 144-3943



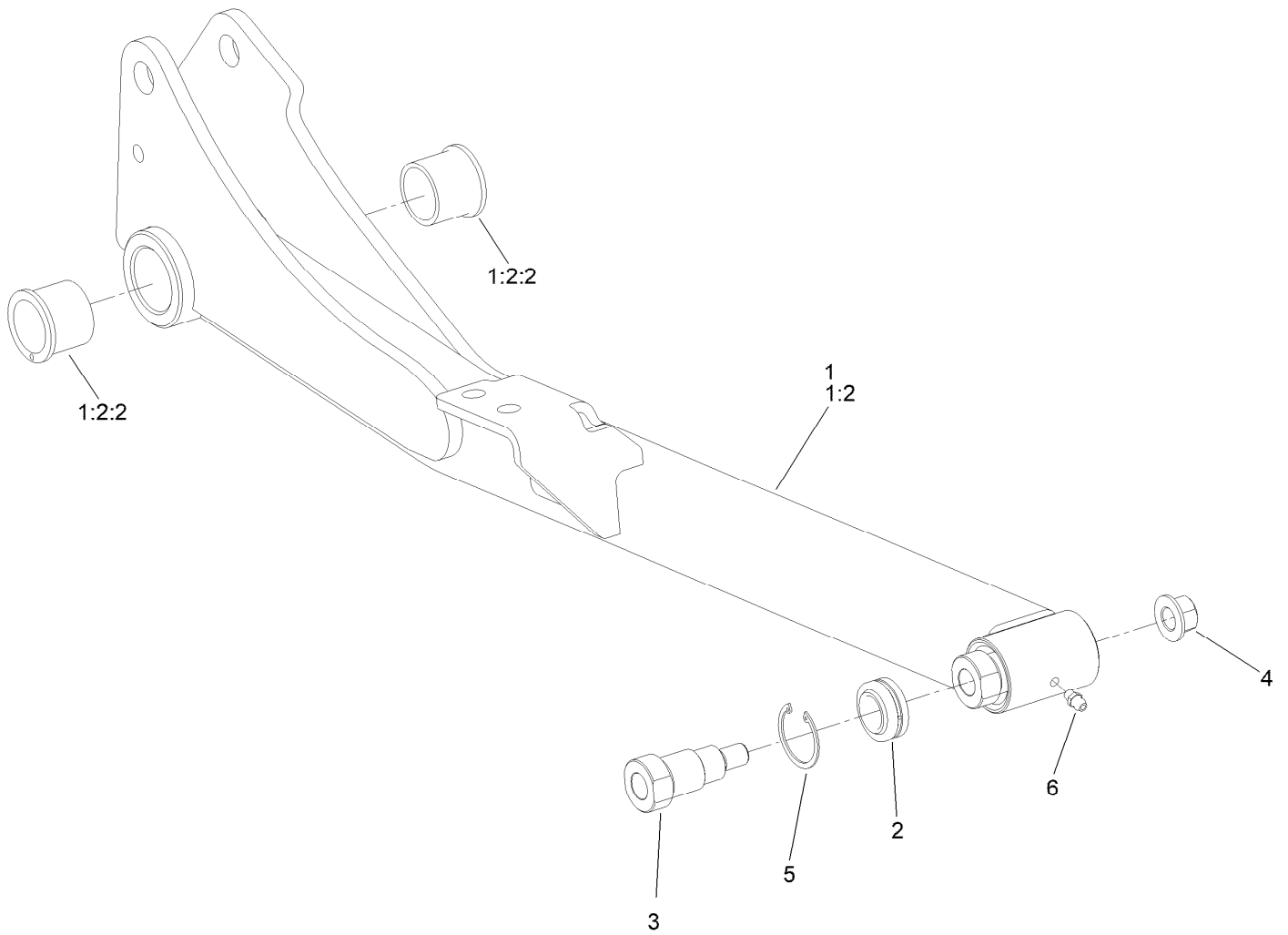
# LH Lift Arm Assembly No. 144-3943 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           |                    | 1           | Lift Arm ASM, LH ● |
| 1:2         |                    | 1           | Hub-ASM ●          |
| 1:2:2       | 104-0015           | 2           | Bushing-Flange     |
| 2           | 105-7441           | 1           | Bearing-Spherical  |
| 3           | 32151-34           | 1           | Ring-Retaining     |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 4           | 139-0910           | 1           | Bolt-Shoulder      |
| 5           | 139-1689           | 1           | Nut-HF             |
| 6           | 302-5              | 1           | Fitting-Grease     |
| 7           | 139-0948           | 1           | Pad-Ride, Pin      |

● Not serviced separately

# RH Lift Arm Assembly No. 144-3942

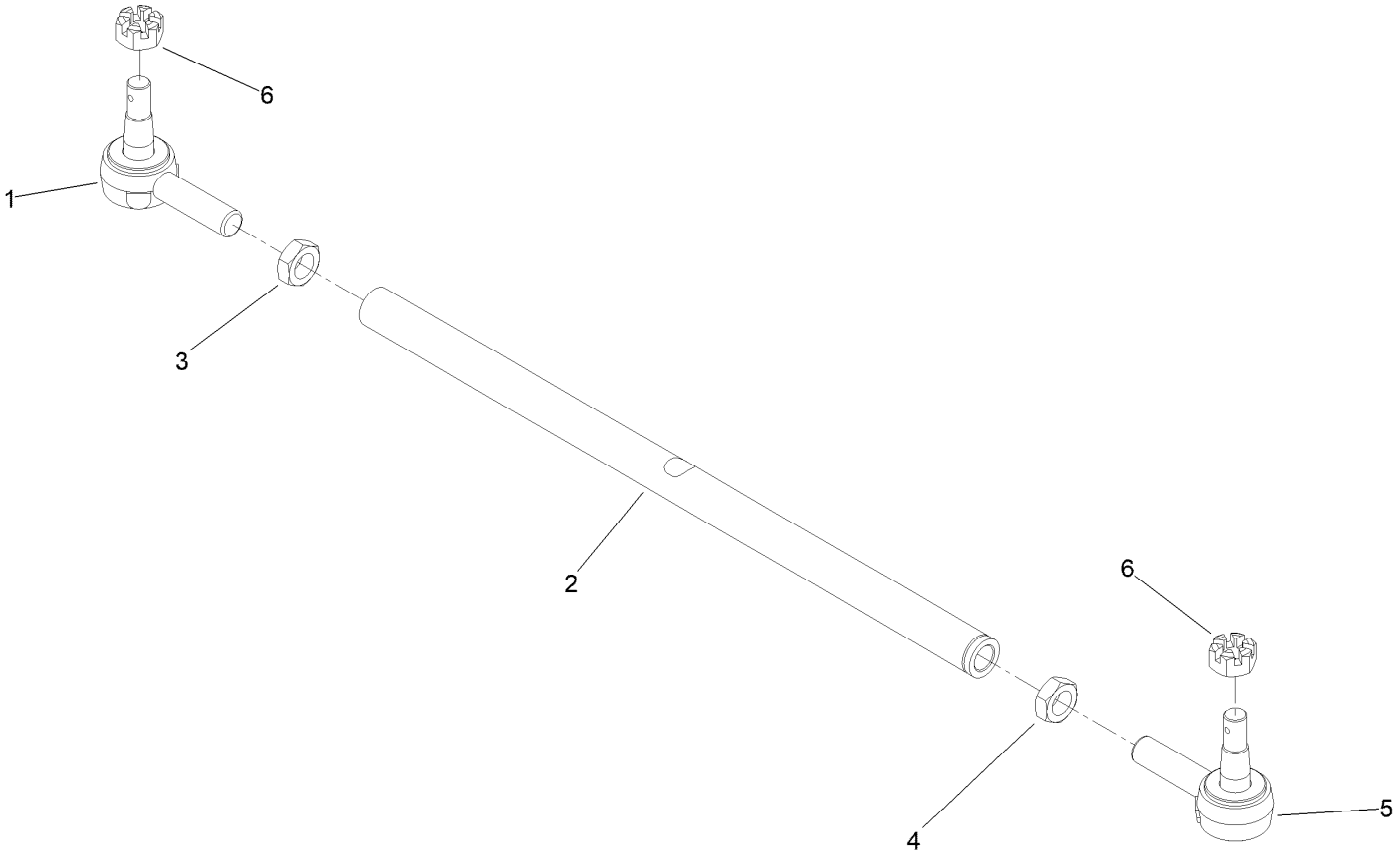


## RH Lift Arm Assembly No. 144-3942 (continued)

| <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           | Lift Arm ASM, RH ● | 3           | 139-0910           | 1           | Bolt-Shoulder      |
| 1:2         |                    | 1           | Hub-ASM ●          | 4           | 139-1689           | 1           | Nut-HF             |
| 1:2:2       | 104-0015           | 2           | Bushing-Flange     | 5           | 32151-34           | 1           | Ring-Retaining     |
| 2           | 105-7441           | 1           | Bearing-Spherical  | 6           | 302-5              | 1           | Fitting-Grease     |

● Not serviced separately

**Tie Rod Assembly No. 144-3900**

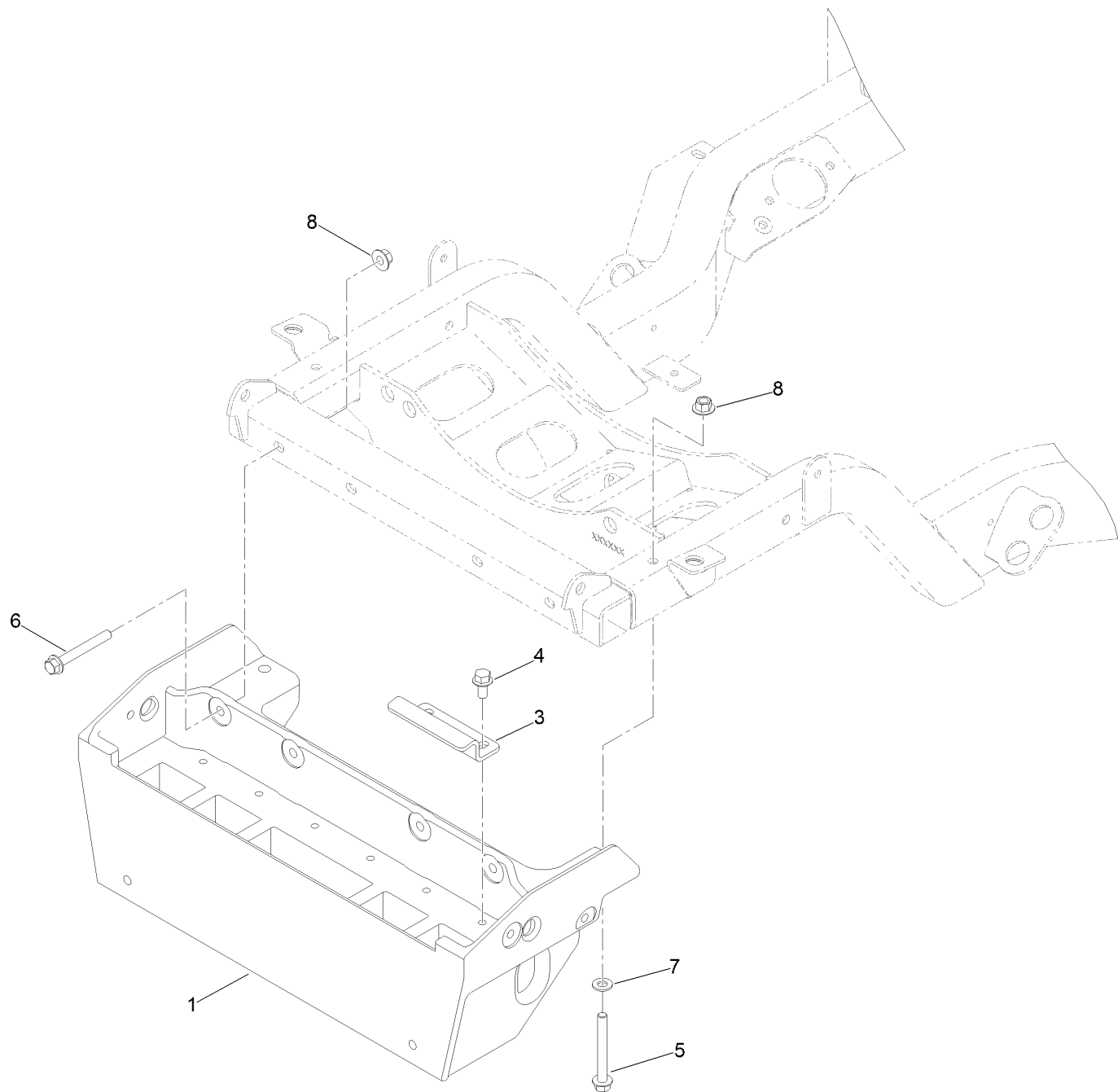


## Tie Rod Assembly No. 144-3900 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 144-3901           | 1           | End-Rod, Tie       |
| 2           | 133-6463           | 1           | Tie-Rod            |
| 3           | 84-5300            | 1           | Nut-Jam            |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 4           | 110-5337           | 1           | Nut-Jam            |
| 5           | 144-3902           | 1           | End-Rod, Tie       |
| 6           | 140-6135           | 2           | Nut-Hex, Slotted   |

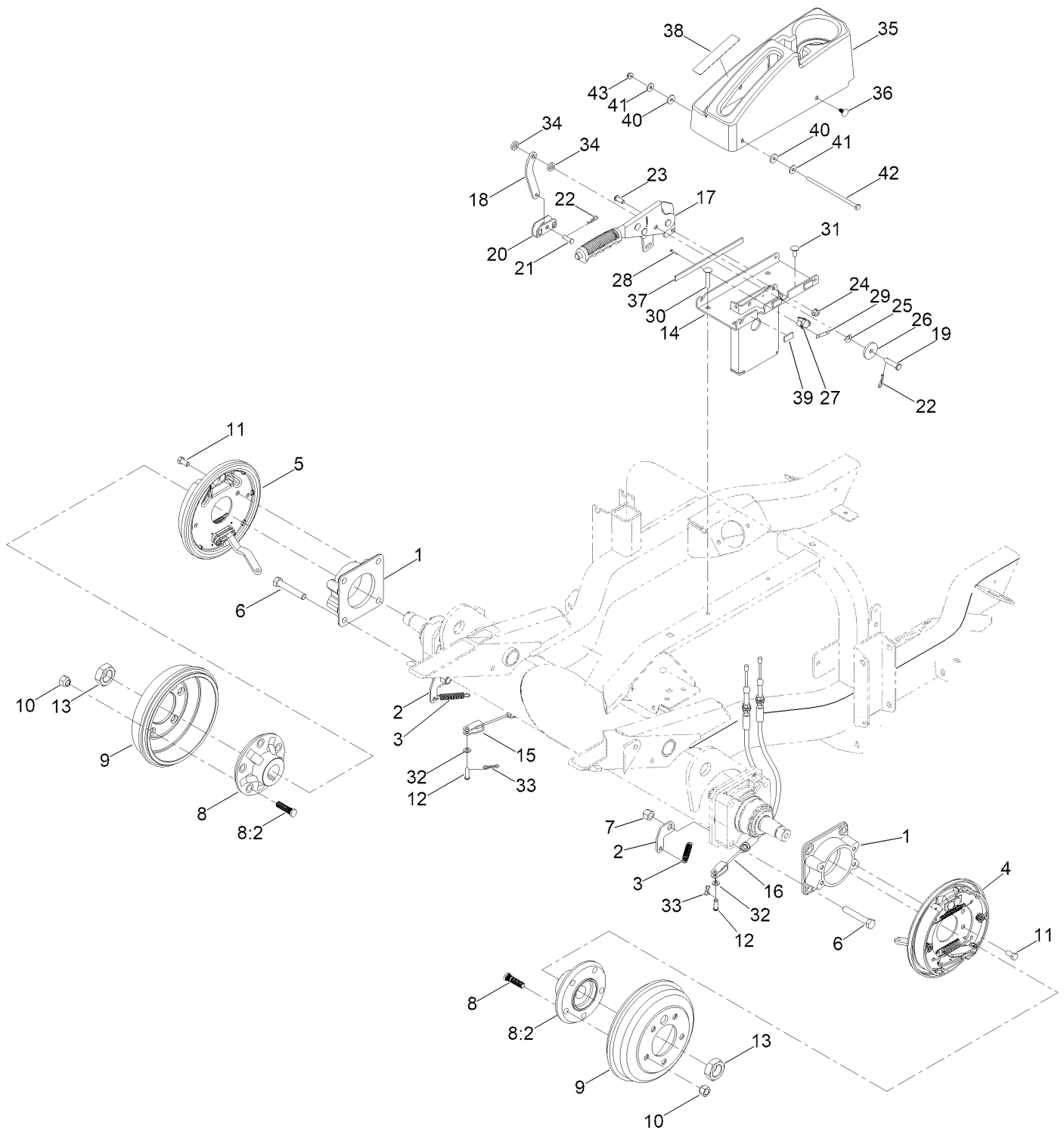
# Rear Bumper Assembly



## Rear Bumper Assembly (continued)

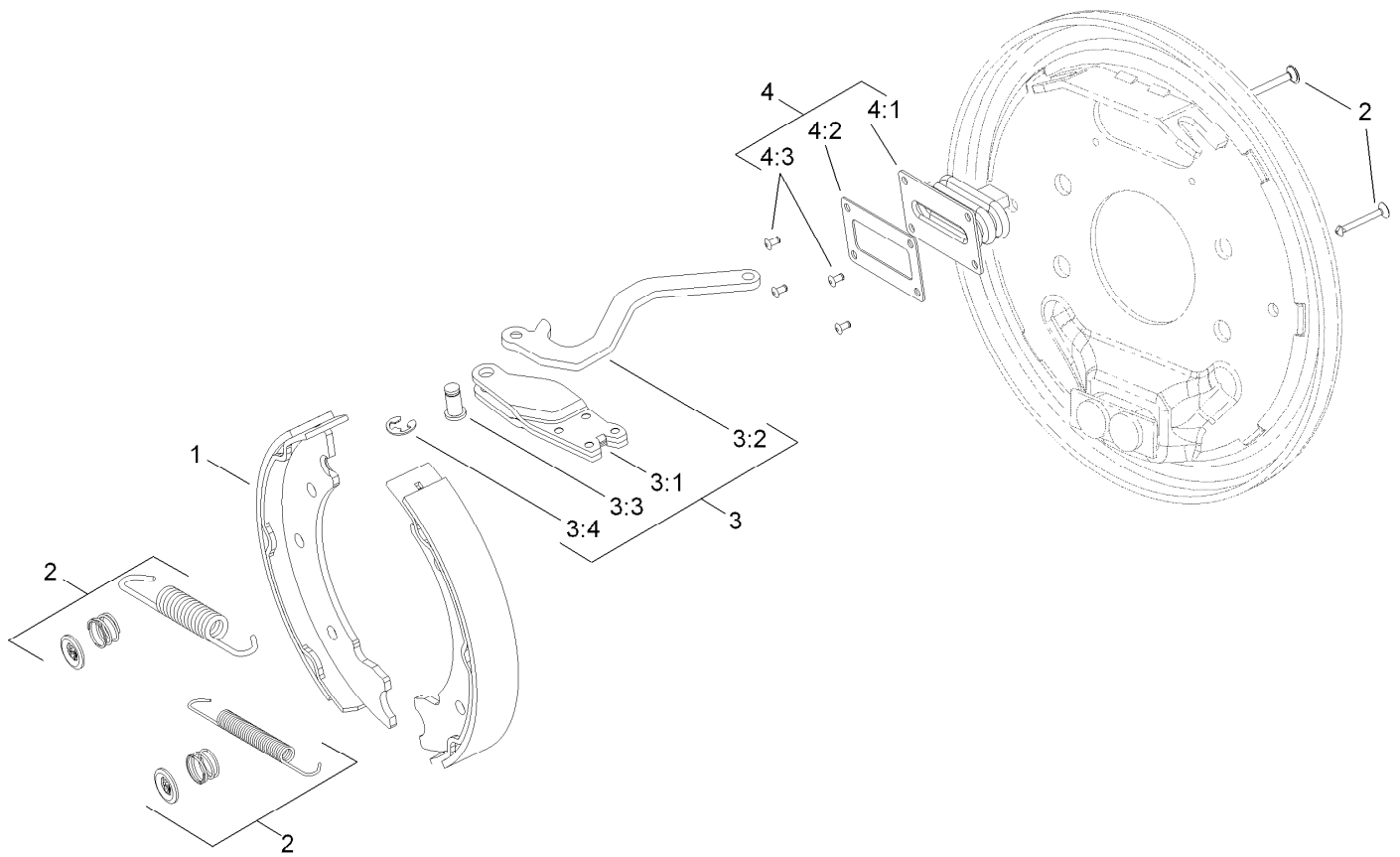
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>      | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|-------------------------|-------------|--------------------|-------------|--------------------|
| 1           | 147-3589SP         | 1           | Bumper-Rear             | 6           | 139-2429           | 4           | Screw-HHF          |
| 3           | 161-8910           | 3           | Bracket-Weight Retainer | 7           | 3256-24            | 2           | Washer-Plain       |
| 4           | 3234-1             | 6           | Screw-HHF               | 8           | 32128-43           | 6           | Nut-Flange         |
| 5           | 3234-41            | 2           | Screw-HHF               |             |                    |             |                    |

## Brake Assembly



## Brake Assembly (continued)

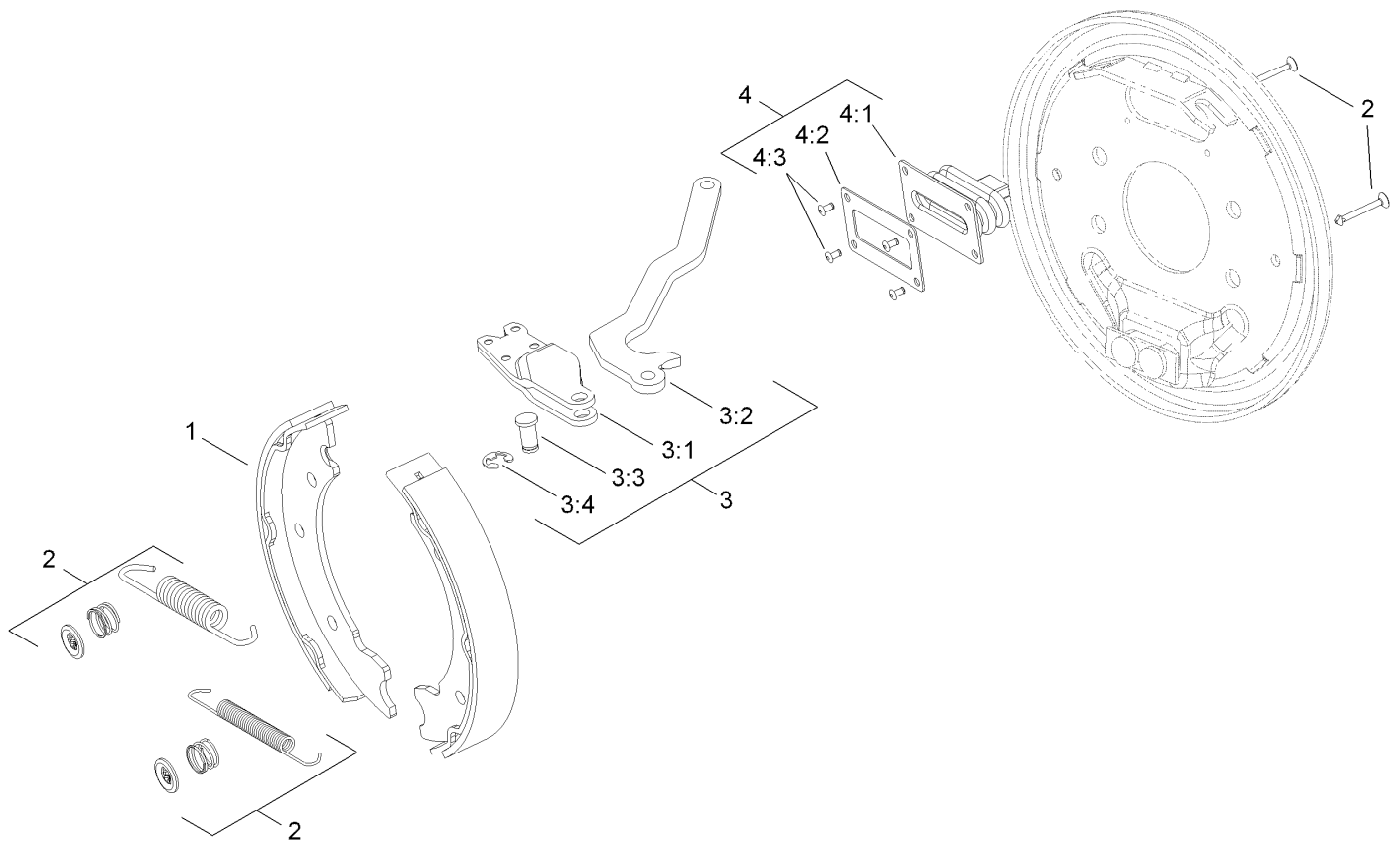
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>         | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>   |
|-------------|--------------------|-------------|----------------------------|-------------|--------------------|-------------|----------------------|
| 1           | 147-3594           | 2           | Adapter-Brake              | 22          | 1-806003           | 2           | Pin-Cotter           |
| 2           | 138-4499           | 2           | Clip-Spring                | 23          | 3274-55            | 2           | Screw-HSBH           |
| 3           | 137-2591           | 2           | Spring-Extension           | 24          | 119-4041           | 6           | Nut-HF               |
| 4           | 120-0235           | 1           | LH Brake ASM               | 25          | 121-4605           | 1           | Washer-Spring        |
| 5           | 120-0233           | 1           | RH Brake ASM               | 26          | 131-8496           | 1           | Washer-Plain         |
| 6           | 325-12             | 8           | Screw-HH                   | 27          | 108-6496           | 1           | Switch (W/Boot)      |
| 7           | 3296-23            | 8           | Nut-Lock, NI               | 28          | 95-3003            | 2           | Screw-PPHTF          |
| 8           | 137-2470           | 2           | Hub ASM                    | 29          | 3290-354           | 1           | Nut-Speed            |
| 8:2         | 114-3918           | 5           | Stud-Wheel                 | 30          | 116-0629           | 2           | Screw-CARR           |
| 9           | 114-8864           | 2           | Drum-Brake                 | 31          | 137-3061           | 2           | Bolt-CARR            |
| 10          | 139-2564           | 10          | Nut-Lug                    | 32          | 3256-74            | 2           | Washer-Flat          |
| 11          | 323-4              | 8           | Screw-HH                   | 33          | 119-1415           | 2           | Pin-Cotter, Locking  |
| 12          | 283-58             | 2           | Pin-Clevis                 | 34          | 3-3287             | 2           | Spacer               |
| 13          | 107-9319           | 2           | Nut-Hex                    | 35          | 138-7475           | 1           | Cover-Brake, Parking |
| 14          | 147-0064-0P        | 1           | Mount-Brake, Parking       | 36          | 117-2382           | 2           | Plug-Plastic         |
| 15          | 137-2640           | 1           | Cable-Brake, Adjustable RH | 37          | 132-7282           | 1           | Strip-Foam           |
| 16          | 137-2641           | 1           | Cable-Brake, Adjustable LH | 38          | 139-6224           | 1           | Decal-Brake, Parking |
| 17          | 131-8320           | 1           | Lever-Brake, Park          | 39          | 115-5417           | 3           | Strip-Foam           |
| 18          | 144-0516           | 1           | Link-Park, Brake           | 40          | 144-0499           | 2           | Washer-Epdm          |
| 19          | 283-10             | 1           | Pin-Clevis                 | 41          | 3256-78            | 2           | Washer-Flat          |
| 20          | 87-3480            | 1           | Bracket-Equalizer, Cable   | 42          | 321-21             | 1           | Screw-HH             |
| 21          | 1-808280           | 1           | Pin-Clevis                 | 43          | 104-7201           | 1           | Nut-HF, NI           |



## Left Hand Brake Assembly No. 120-0235

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 1    | 139-5950    | 1    | Brake Shoe Kit     |
| 2    | 108-6983    | 1    | Brake Hardware Kit |
| 3    | 120-0236    | 1    | LH Actuator Kit    |
| 3:1  |             | 1    | Housing ●          |
| 3:2  |             | 1    | Lever-LH ●         |
| 3:3  |             | 1    | Pin-Pivot ●        |
| 3:4  |             | 1    | E-Ring ●           |
| 4    | 110-8885    | 1    | Dust Boot Kit      |
| 4:1  |             | 1    | Boot ●             |
| 4:2  |             | 1    | Plate-Back Up ●    |
| 4:3  |             | 2    | Rivet ●            |

● Not serviced separately

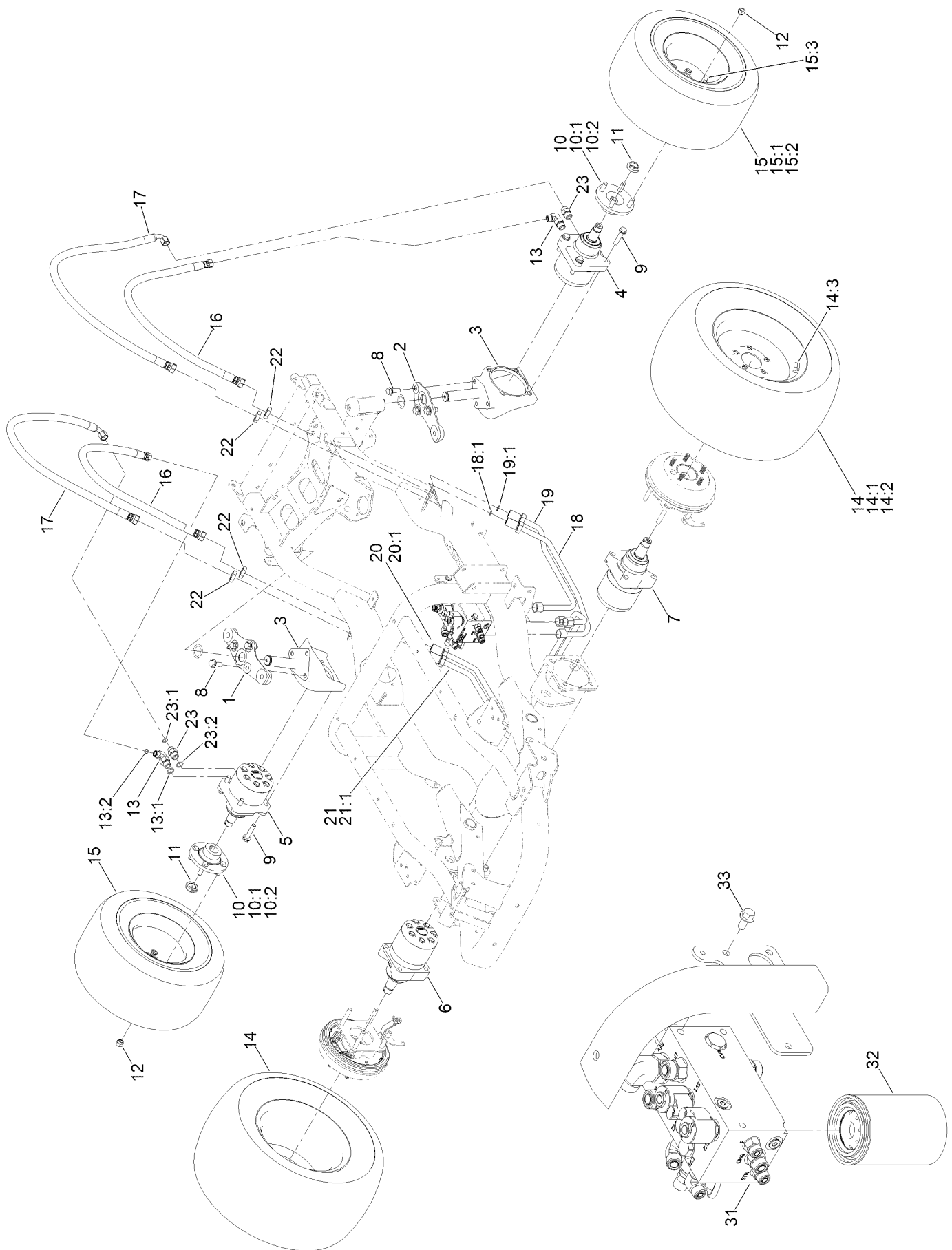


## Right Hand Brake Assembly No. 120-0233

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 1    | 139-5950    | 1    | Brake Shoe Kit     |
| 2    | 108-6983    | 1    | Brake Hardware Kit |
| 3    | 120-0234    | 1    | RH Actuator Kit    |
| 3:1  |             | 1    | Housing ●          |
| 3:2  |             | 1    | Lever-RH ●         |
| 3:3  |             | 1    | Pin-Pivot ●        |
| 3:4  |             | 1    | E-Ring ●           |
| 4    | 110-8885    | 1    | Dust Boot Kit      |
| 4:1  |             | 1    | Boot ●             |
| 4:2  |             | 1    | Plate-Back Up ●    |
| 4:3  |             | 2    | Rivet ●            |

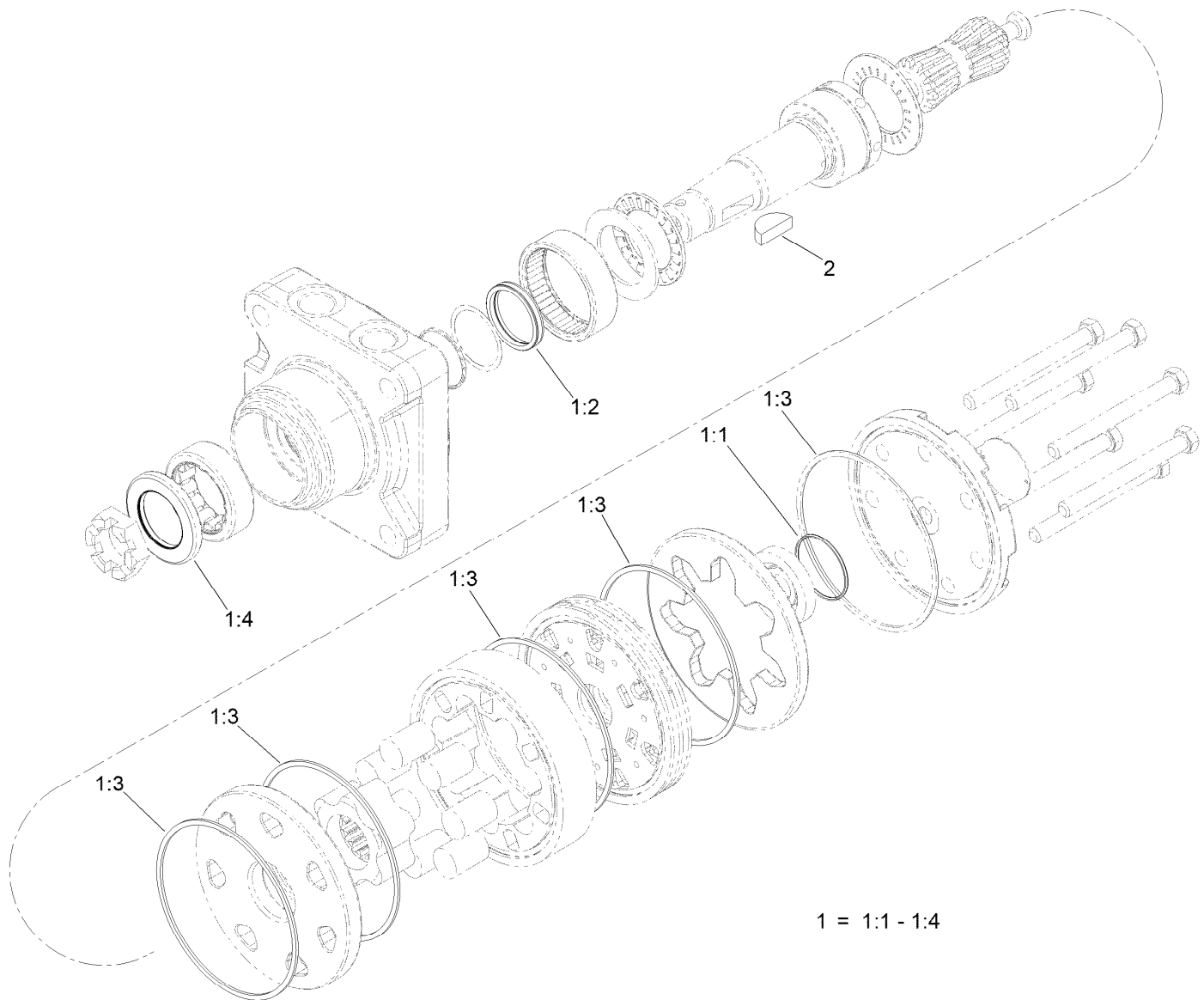
● Not serviced separately

# Hydraulic Drive Assembly



## Hydraulic Drive 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           | 140-3142           | 1           | Link-Drag, RH         | 15          | 137-2592           | 2           | Wheel ASM                  |
| 2           | 140-3144           | 1           | Link-Drag, LH         | 15:1        | 137-2596           | 1           | Tire                       |
| 3           | 161-5128           | 2           | Housing-Motor         | 15:2        | 137-2597           | 1           | Rim                        |
| 4           | 138-0435           | 1           | Motor-Hydraulic, CCW  | 15:3        | 232-27             | 1           | Stem-Valve                 |
| 5           | 138-0436           | 1           | Motor-Hydraulic, CW   | 16          | 144-3929           | 2           | Hose ASM, Hydraulic        |
| 6           | 137-2479           | 1           | Motor-Hydraulic, CW   | 17          | 144-3928           | 2           | Hose ASM, Hydraulic        |
| 7           | 137-2459           | 1           | Motor-Hydraulic, CCW  | 18          | 138-0334           | 1           | Hydraulic Tube ASM         |
| 8           | 3234-38            | 6           | Screw-HHF             | 18:1        | 237-65             | 1           | O-Ring                     |
| 9           | 3234-46            | 8           | Screw-HHF             | 19          | 138-0335           | 1           | Hydraulic Tube ASM         |
| 10          | 18-3209            | 2           | Wheel Hub/Stud ASM    | 19:1        | 237-65             | 1           | O-Ring                     |
| 10:1        | 10-6870-03         | 1           | Hub-Wheel             | 20          | 145-6069           | 1           | Hydraulic Tube ASM         |
| 10:2        | 10-6830            | 4           | Stud-Type, Drive      | 20:1        | 237-65             | 1           | O-Ring                     |
| 11          | 116-1399           | 2           | Locknut               | 21          | 145-6071           | 1           | Hydraulic Tube ASM         |
| 12          | 139-2564           | 8           | Nut-Lug               | 21:1        | 237-65             | 1           | O-Ring                     |
| 13          | 340-105            | 2           | Fitting-Elbow, 90 DEG | 22          | 340-74             | 4           | Nut-Lock, Bulkhead         |
| 13:1        | 237-80             | 1           | O-Ring                | 23          | 340-6              | 2           | Fitting-Straight           |
| 13:2        | 237-30             | 1           | O-Ring                | 23:1        | 237-30             | 1           | O-Ring                     |
| 14          | 137-2593           | 2           | Wheel ASM             | 23:2        | 237-80             | 1           | O-Ring                     |
| 14:1        | 137-2595           | 1           | Rim                   | 31          | 145-6080           | 1           | Manifold Steering/Lift-4Wd |
| 14:2        | 137-2581           | 1           | Tire                  | 32          | 86-3010            | 1           | Filter-Oil                 |
| 14:3        | 232-27             | 1           | Stem-Valve            | 33          | 3234-1             | 3           | Screw-HHF                  |

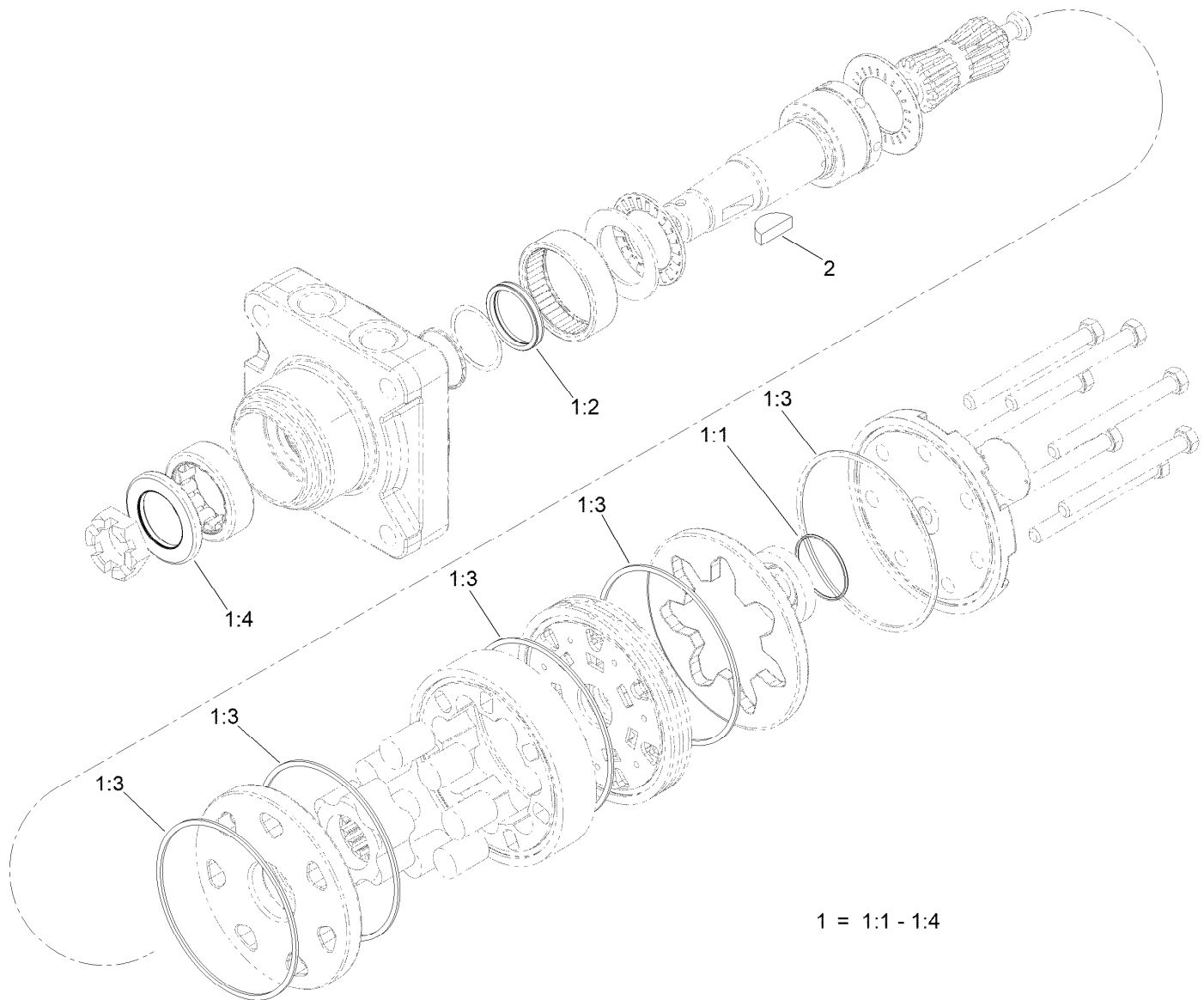


## Hydraulic Motor Assembly No. 138-0435

| Ref. | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 1    | 110-8897    | 1    | Seal Kit ●                |
| 1:1  |             | 1    | Seal-Commutator, Vespel ■ |
| 1:2  |             | 1    | Seal-Shaft ■              |
| 1:3  |             | 5    | Seal-Body, Buna ■         |
| 1:4  |             | 1    | Seal-Dirt / Water ■       |
| 2    | 3257-42     | 1    | Key-Woodruff              |

● Not illustrated

■ Not serviced separately

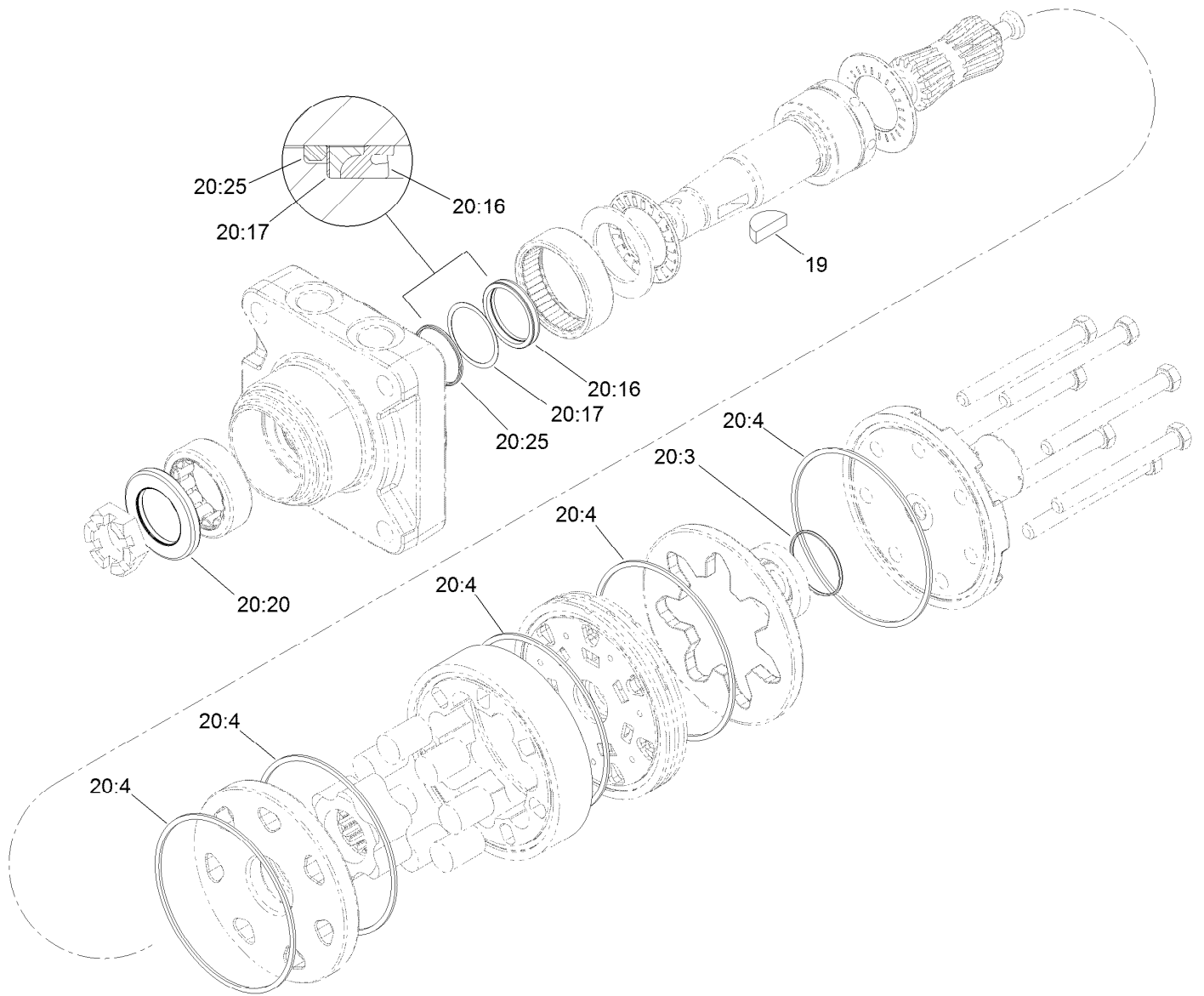


## Hydraulic Motor Assembly No. 138-0436

| Ref. | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 1    | 110-8897    | 1    | Seal Kit ●                |
| 1:1  |             | 1    | Seal-Commutator, Vespel ■ |
| 1:2  |             | 1    | Seal-Shaft ■              |
| 1:3  |             | 5    | Seal-Body, Buna ■         |
| 1:4  |             | 1    | Seal-Dirt / Water ■       |
| 2    | 3257-42     | 1    | Key-Woodruff              |

● Not illustrated

■ Not serviced separately

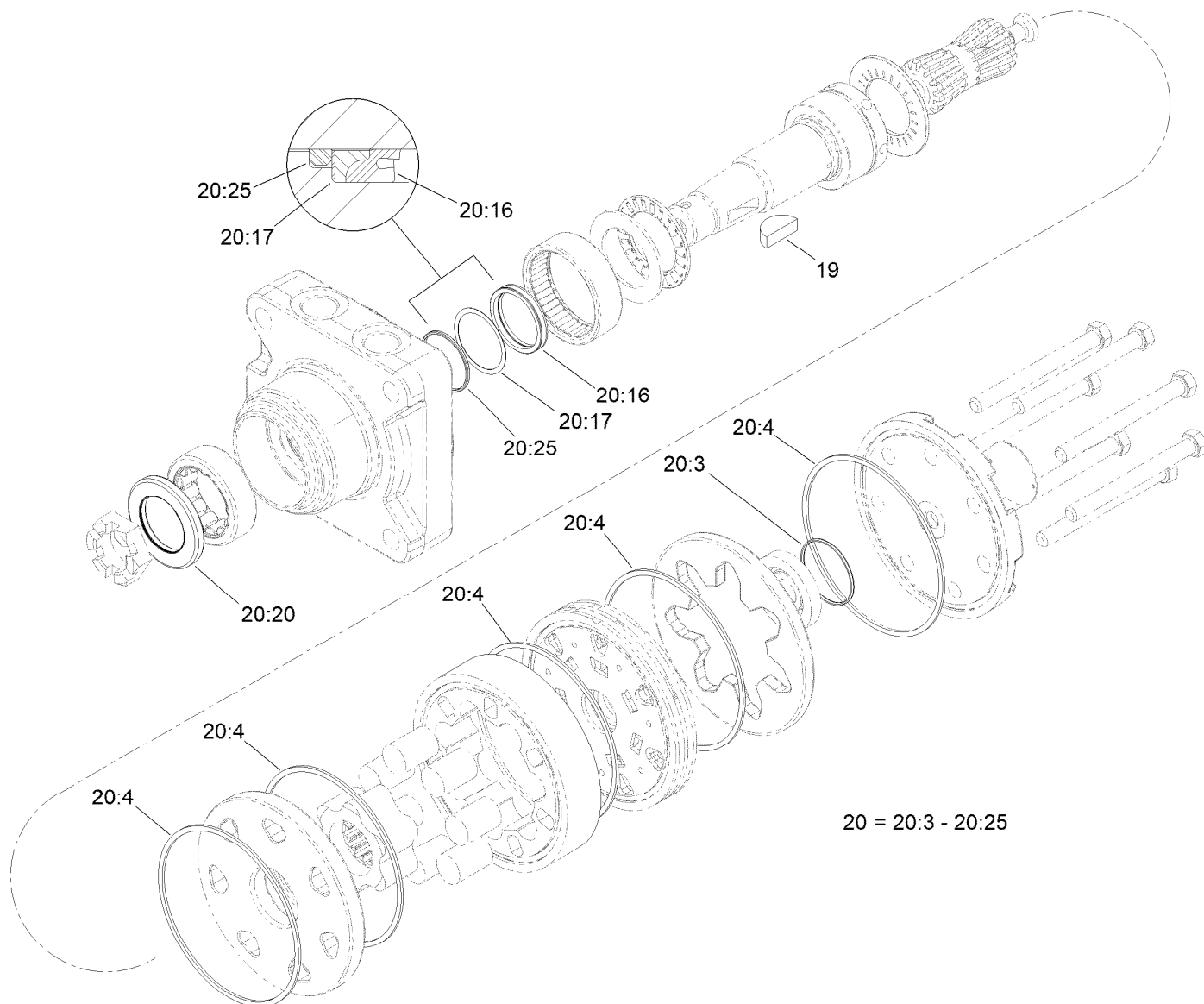


## Hydraulic Motor Assembly No. 137-2479

| Ref.  | Part Number | Qty. | Description               |
|-------|-------------|------|---------------------------|
| 19    | 3257-42     | 1    | Key-Woodruff              |
| 20    | 110-8896    | 1    | Seal Kit ●                |
| 20:3  |             | 1    | Seal-Commutator, Vespel ■ |
| 20:4  |             | 6    | Seal-Body, Buna ■         |
| 20:16 |             | 1    | Seal-Shaft ■              |
| 20:17 |             | 1    | Washer-Back Up ■          |
| 20:20 |             | 1    | Seal-Dirt/Water ■         |
| 20:25 |             | 1    | Ring-Back Up ■            |

● Not illustrated

■ Not serviced separately



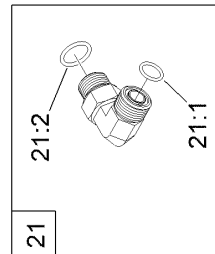
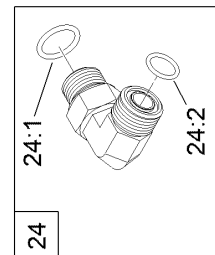
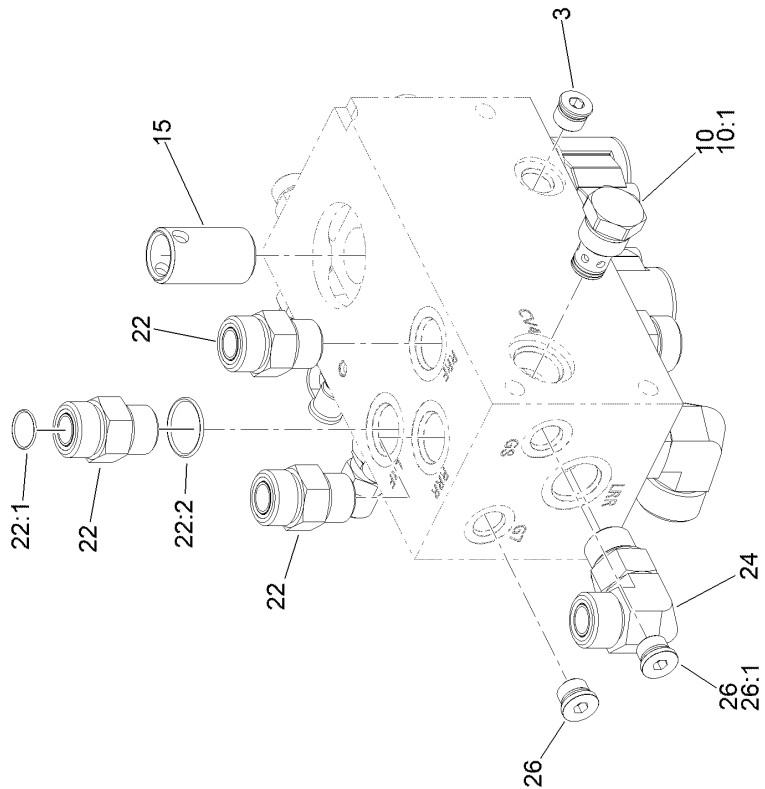
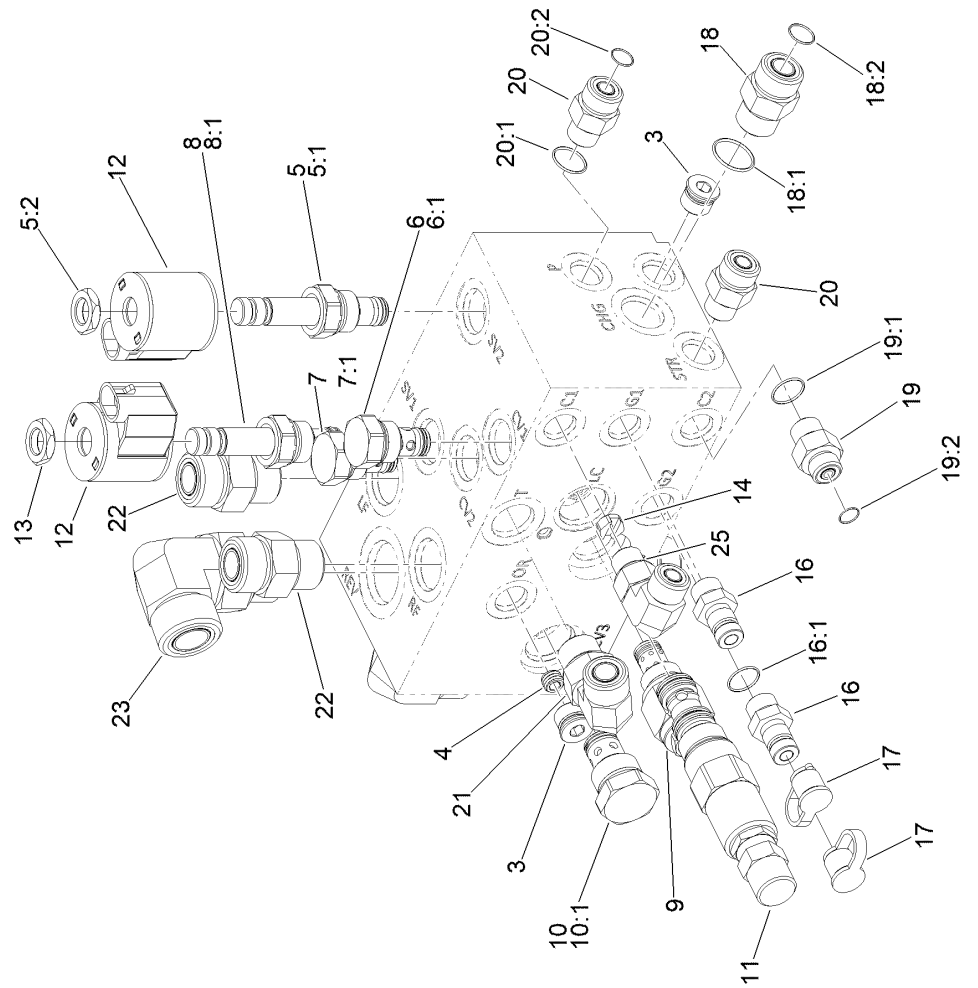
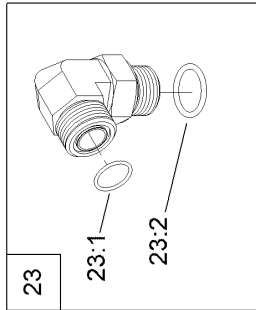
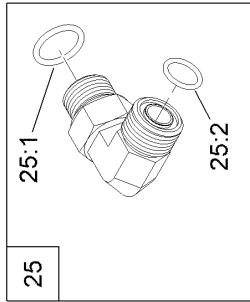
## Hydraulic Motor Assembly No. 137-2459

| Ref.  | Part Number | Qty. | Description               |
|-------|-------------|------|---------------------------|
| 19    | 3257-42     | 1    | Key-Woodruff              |
| 20    | 110-8896    | 1    | Seal Kit ●                |
| 20:3  |             | 1    | Seal-Commutator, Vespel ■ |
| 20:4  |             | 6    | Seal-Body, Buna ■         |
| 20:16 |             | 1    | Seal-Shaft ■              |
| 20:17 |             | 1    | Washer-Back Up ■          |
| 20:20 |             | 1    | Seal-Dirt/Water ■         |
| 20:25 |             | 1    | Ring-Back Up ■            |

● Not illustrated

■ Not serviced separately

# Steering/Lift Manifold Assembly No. 145-6080

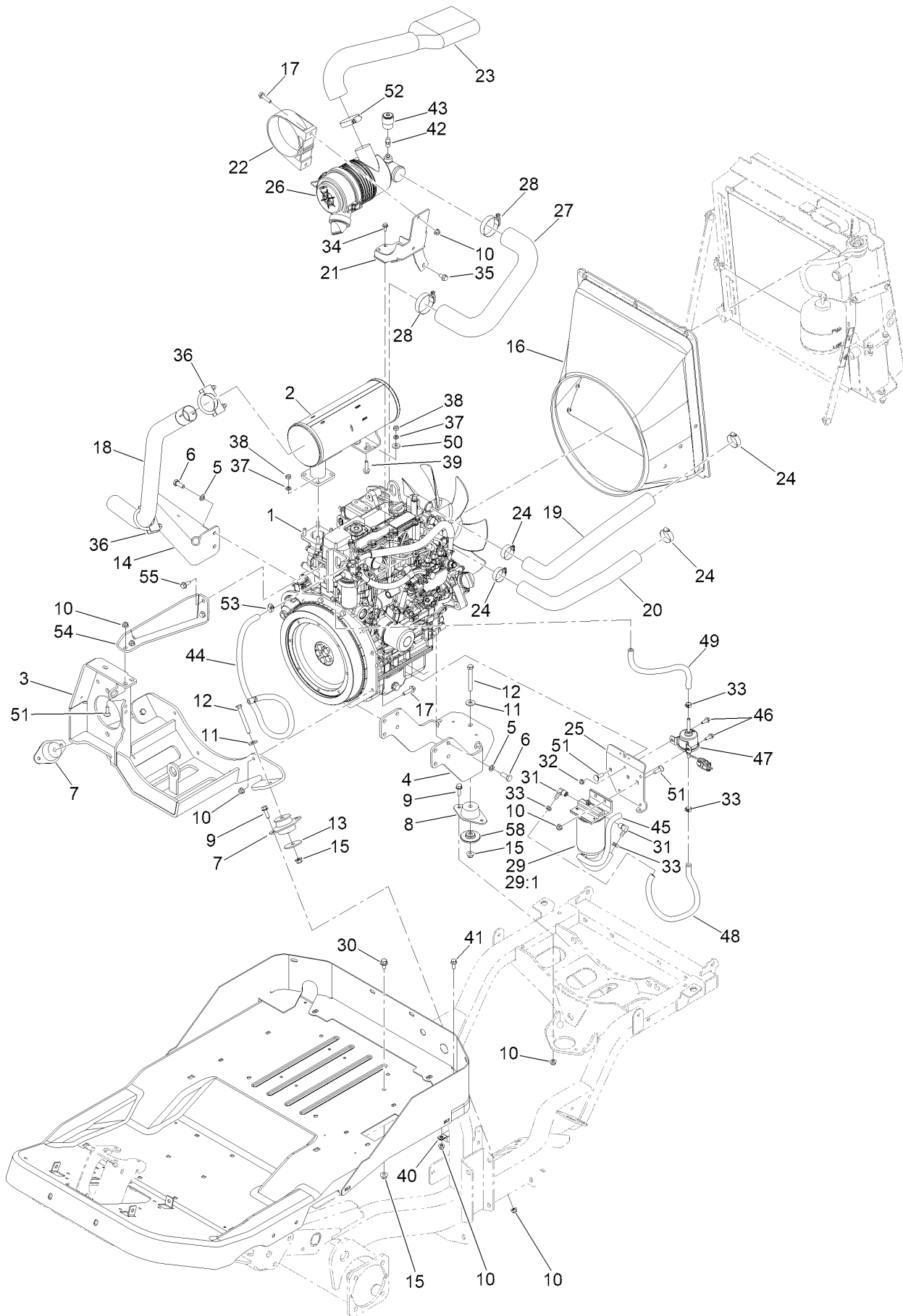


# Steering/Lift Manifold Assembly No. 145-6080 (continued)

| <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>    |
|-------------|--------------------|-------------|--------------------------------------|-------------|--------------------|-------------|-----------------------|
| 3           | 112-9213           | 3           | Plug                                 | 18:2        | 237-79             | 1           | O-Ring                |
| 4           | 110-8883           | 1           | Plug-Orifice (0.040)                 | 19          | 340-1              | 1           | Fitting-Straight      |
| 5           | 112-9206           | 1           | Solenoid Valve ASM                   | 19:1        | 237-21             | 1           | O-Ring                |
| 5:1         | 105-9156           | 1           | Seal Kit                             | 19:2        | 237-42             | 1           | O-Ring                |
| 5:2         | 110-2634           | 1           | Nut-Coil                             | 20          | 340-2              | 2           | Fitting-Straight      |
| 6           | 114-2873           | 1           | Check Valve ASM                      | 20:1        | 237-22             | 1           | O-Ring                |
| 6:1         | 105-9156           | 1           | Seal Kit                             | 20:2        | 237-42             | 1           | O-Ring                |
| 7           | 139-1213           | 1           | Valve-Check                          | 21          | 340-98             | 1           | Fitting-Elbow, 90 DEG |
| 7:1         | 105-9156           | 1           | Seal Kit                             | 21:1        | 237-79             | 1           | O-Ring                |
| 8           | 120-6562           | 1           | Valve-Solenoid                       | 21:2        | 237-30             | 1           | O-Ring                |
| 8:1         | 105-9156           | 1           | Seal Kit                             | 22          | 340-7              | 5           | Fitting-Straight      |
| 9           | 139-6298           | 1           | Valve-Relief (Bi-Directional)        | 22:1        | 237-65             | 1           | O-Ring                |
| 10          | 110-8881           | 2           | Valve-Check                          | 22:2        | 237-80             | 1           | O-Ring                |
| 10:1        | 105-9159           | 1           | Seal Kit ●                           | 23          | 340-142            | 1           | Fitting-Elbow, 90 DEG |
| 11          | 144-0501           | 1           | Valve-Logic, 220 PSI<br>(Adjustable) | 23:1        | 237-58             | 1           | O-Ring                |
| 12          | 110-0497           | 2           | Coil-Solenoid                        | 23:2        | 237-81             | 1           | O-Ring                |
| 13          | 110-2634           | 2           | Nut-Coil                             | 24          | 340-17             | 1           | Fitting-Elbow, 90 DEG |
| 14          | 139-6296           | 1           | Orifice-Check 0.100 DIA              | 24:1        | 237-65             | 1           | O-Ring                |
| 15          | 139-6297           | 1           | Nipple-Filter                        | 24:2        | 237-80             | 1           | O-Ring                |
| 16          | 59-7410            | 2           | Fitting-Diagnostic                   | 25          | 340-77             | 1           | Fitting-Elbow, 90 DEG |
| 16:1        | 237-42             | 1           | O-Ring                               | 25:1        | 237-22             | 1           | O-Ring                |
| 17          | 354-79             | 2           | Cap-Dust                             | 25:2        | 237-42             | 1           | O-Ring                |
| 18          | 340-4              | 1           | Fitting-Straight                     | 26          | 353-989            | 2           | Plug-Hex, Hollow      |
| 18:1        | 237-30             | 1           | O-Ring                               | 26:1        | 237-42             | 1           | O-Ring                |

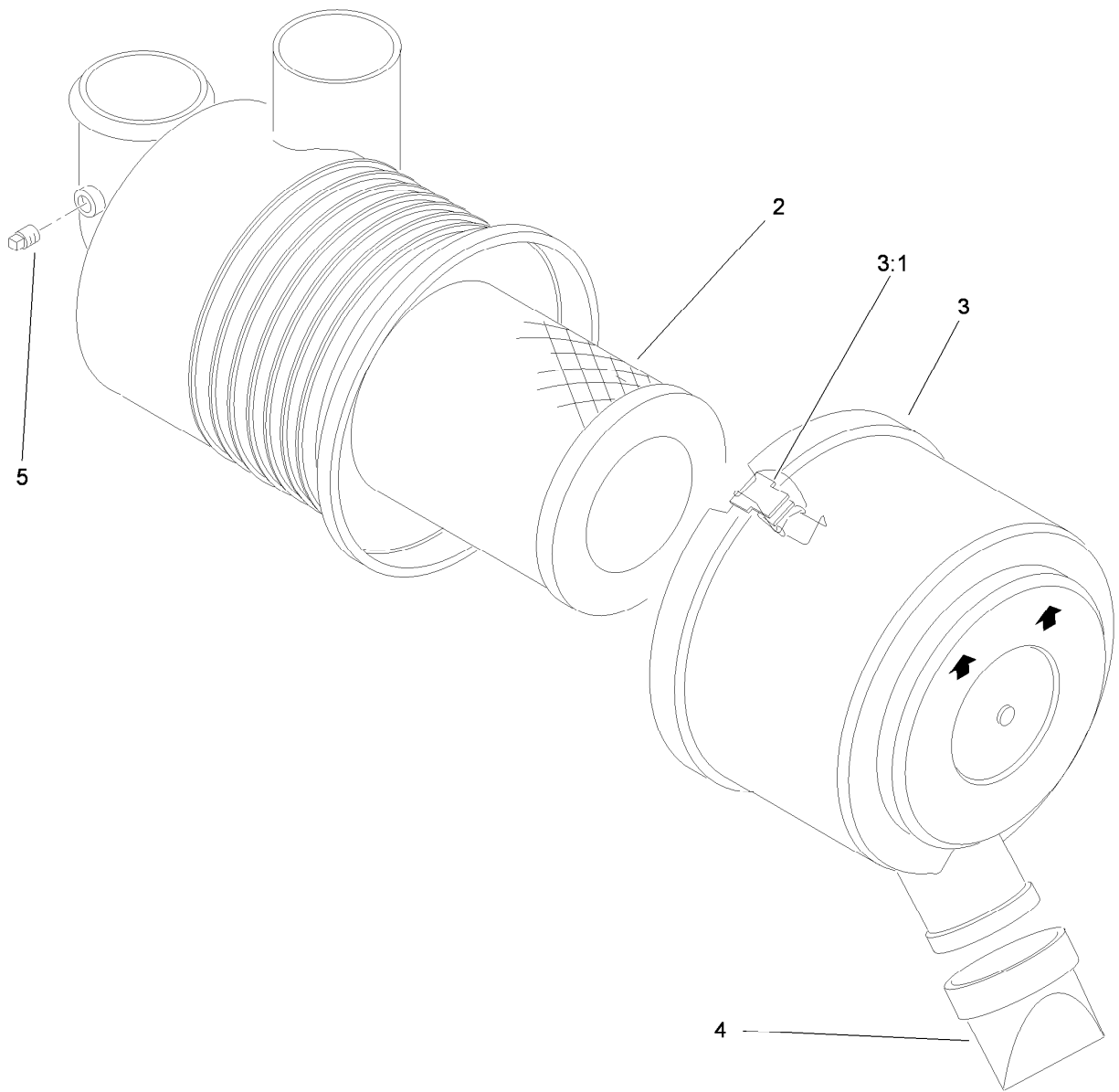
● Not illustrated

# Engine, Muffler and Air Cleaner Assembly



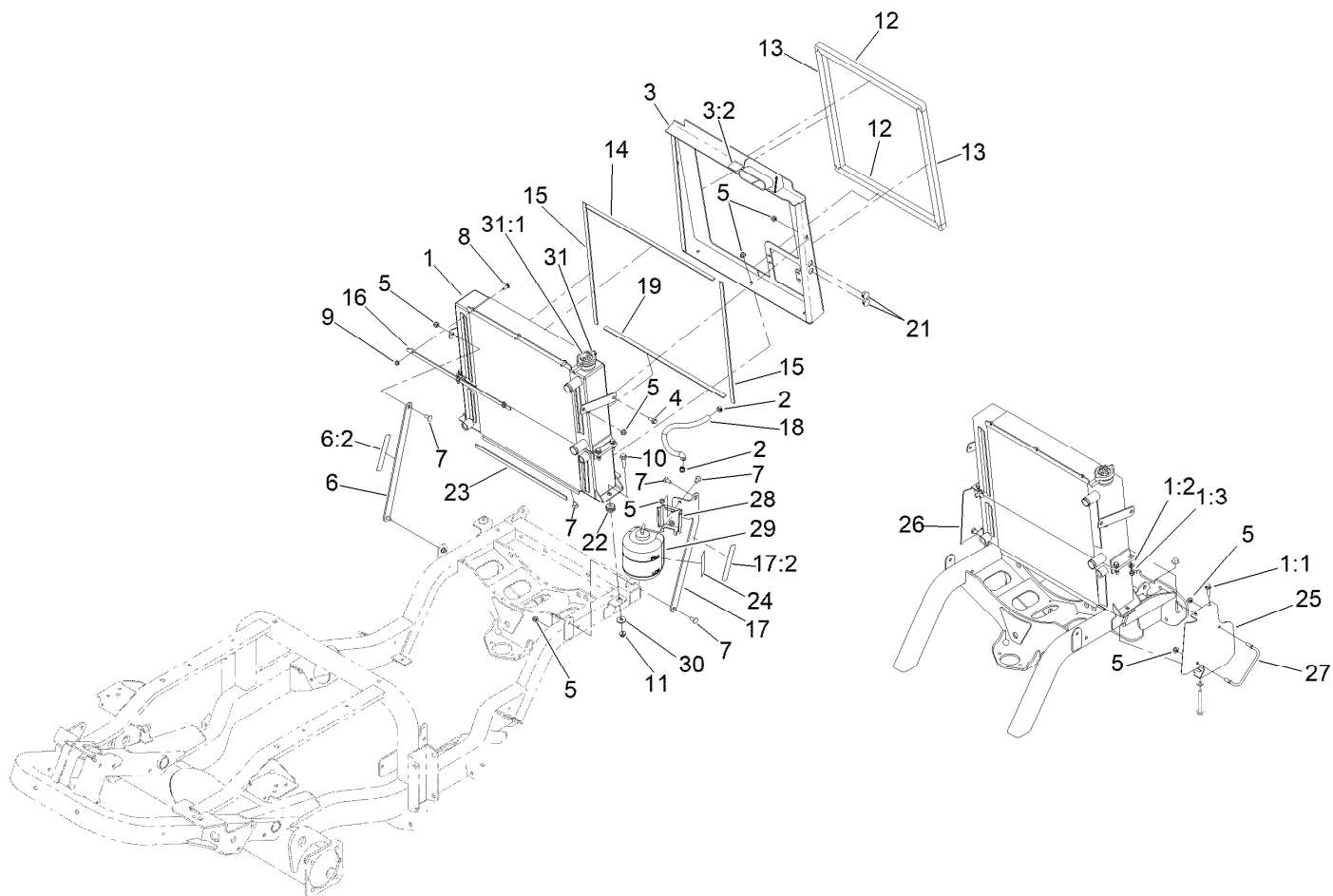
## Engine, Muffler and Air Cleaner Assembly (continued)

| <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           | 163-1721           | 1           | Engine-Yanmar<br>(3Tnv80F-N7Dtr) (Service) | 29          | 110-9044           | 1           | Separator-Filter           |
| 2           | 139-6269           | 1           | Muffler ASM                                | 29:1        | 110-9049           | 1           | Filter-Spin On, Fuel/Water |
| 3           | 145-5951-0P        | 1           | Bracket-Mount, Pump                        | 30          | 3234-9             | 1           | Screw-HHF                  |
| 4           | 138-0424-0P        | 1           | Mount-Engine, Rear 24HP                    | 31          | 353-781            | 2           | Fitting-HYD, 90            |
| 5           | 48-9590            | 8           | Washer-Lock                                | 32          | 104-7201           | 2           | Nut-HF, NI                 |
| 6           | 33115-025          | 8           | Screw-HH                                   | 33          | 92-2379            | 4           | Clamp-Hose                 |
| 7           | 130-2486           | 2           | Mount                                      | 34          | 33103-016          | 3           | Screw-HHF                  |
| 8           | 125-5244           | 1           | Mount-Engine                               | 35          | 33104-016          | 1           | Screw-HHF                  |
| 9           | 3234-29            | 6           | Screw-HHF                                  | 36          | 18-2130            | 2           | Clamp                      |
| 10          | 119-4041           | 19          | Nut-HF                                     | 37          | 3253-4             | 6           | Washer-Lock                |
| 11          | 80-6990            | 3           | Washer-Hardened                            | 38          | 33014-00           | 6           | Nut-Hex                    |
| 12          | 323-14             | 3           | Screw-HH                                   | 39          | 33104-030          | 2           | Screw-HHF                  |
| 13          | 83-1040            | 2           | Washer-Flat                                | 40          | 120-1959           | 1           | Clamp                      |
| 14          | 144-0515-03        | 1           | Support-Tailpipe                           | 41          | 3234-47            | 1           | Screw-HHF                  |
| 15          | 119-4042           | 4           | Nut-HF, NI                                 | 42          | 94-1416            | 1           | Adapter-Indicator          |
| 16          | 139-6279           | 1           | Shroud-Fan ASM                             | 43          | 93-9164            | 1           | Indicator-Mini             |
| 17          | 3234-36            | 6           | Screw-HHF                                  | 44          | 132-7563           | 1           | Hose-Fuel                  |
| 18          | 144-0570           | 1           | Pipe-Exhaust                               | 45          | 110-4112           | 1           | Hose-Fuel                  |
| 19          | 138-4493           | 1           | Hose-Radiator, Upper                       | 46          | 3234-4             | 2           | Screw-HHF                  |
| 20          | 138-4494           | 1           | Hose-Radiator, Lower                       | 47          | 121-5613           | 1           | Pump-Fuel, Electric        |
| 21          | 138-4486-0P        | 1           | Bracket-Air Cleaner                        | 48          | 110-4101           | 1           | Hose-Fuel                  |
| 22          | 95-5806            | 1           | Bracket-Mounting, Air<br>Cleaner           | 49          | 110-4104           | 1           | Hose-Fuel                  |
| 23          | 138-4460           | 1           | Hose-Intake, Air Cleaner                   | 50          | 88-7200            | 2           | Washer-Flat                |
| 24          | 2412-34            | 4           | Clamp-Hose                                 | 51          | 3230-2             | 6           | Bolt-CARR                  |
| 25          | 138-4472-0P        | 1           | Angle-Filter Mount                         | 52          | 2412-130           | 1           | Clamp-Hose                 |
| 26          | 93-2190            | 1           | Air Cleaner ASM                            | 53          | 2412-108           | 2           | Clamp-Worm                 |
| 27          | 137-5881           | 1           | Hose-Intake                                | 54          | 145-5958-0P        | 1           | Strap-Mount, Pump          |
| 28          | 2412-92            | 2           | Clamp-Hose                                 | 55          | 33104-020          | 2           | Screw-HHF                  |
|             |                    |             |                                            | 58          | 138-6462           | 1           | Support-Isolator           |



## Air Cleaner Assembly No. 93-2190

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 2    | 108-3811    | 1    | Filter-Air V-Twin HD |
| 3    | 94-3652     | 1    | Cover ASM            |
| 3:1  | 1-643283    | 2    | Latch-Cleaner, Air   |
| 4    | 87-9400     | 1    | Valve-Vacuator       |
| 5    | 285-17      | 1    | Plug-Pipe            |

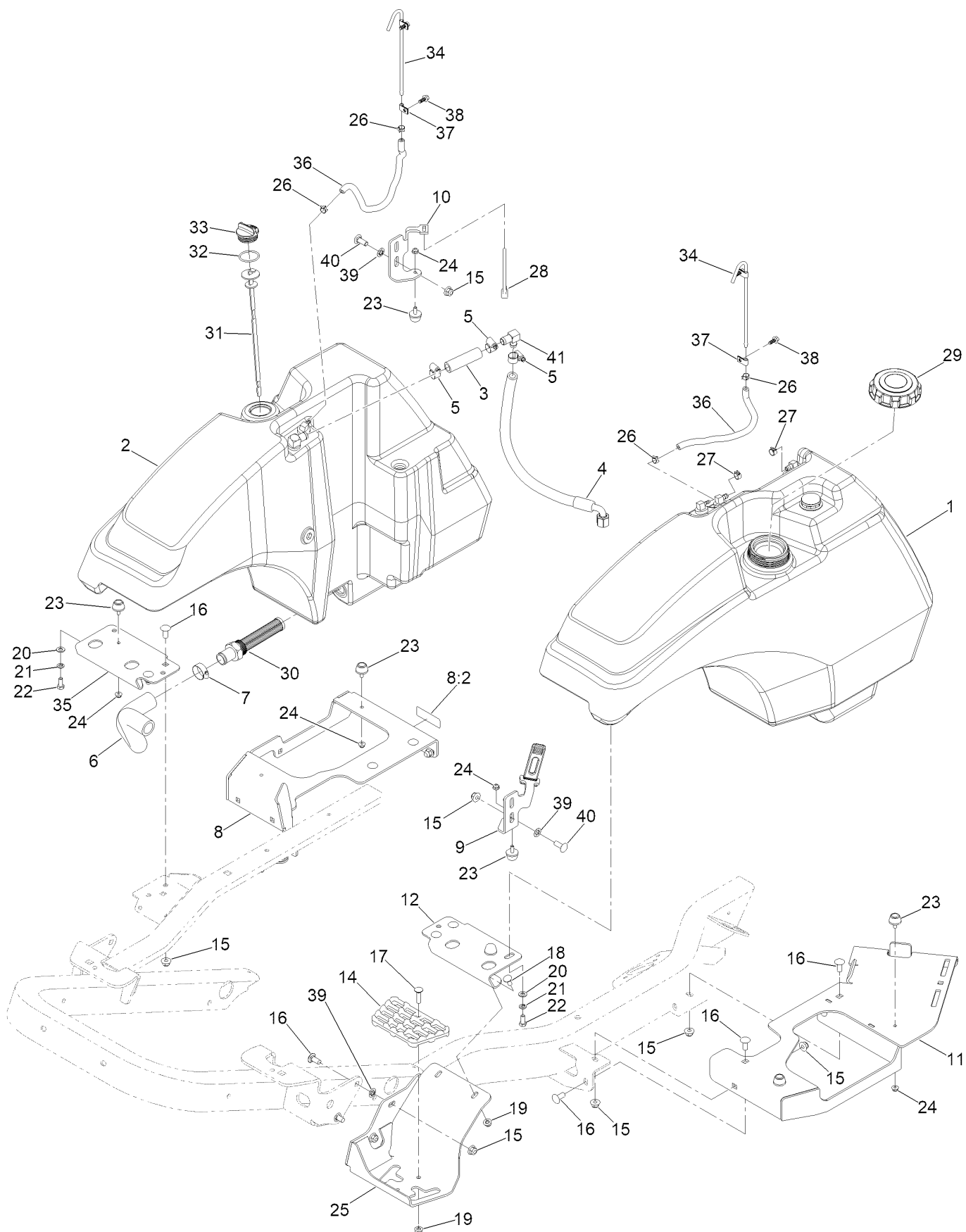


## Radiator and Cooler Assembly

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    | 147-0062    | 1    | Radiator/Oil Cooler ASM |
| 1:1  | 119-4036    | 4    | Screw-HHF               |
| 1:2  | 3256-23     | 4    | Washer-Plain            |
| 1:3  | 137-3093    | 4    | Nut-Hex                 |
| 2    | 92-2379     | 2    | Clamp-Hose              |
| 3    | 139-6232    | 1    | Shroud-Cooler ASM       |
| 3:2  | 115-8155    | 1    | Decal-Warning           |
| 4    | 3234-47     | 2    | Screw-HHF               |
| 5    | 119-4041    | 15   | Nut-HF                  |
| 6    | 139-6229    | 1    | Strap-Cooler            |
| 6:2  | 93-7272     | 1    | Decal-Warning           |
| 7    | 137-3061    | 9    | Bolt-CARR               |
| 8    | 1-807512    | 3    | Bolt-CARR               |
| 9    | 104-7201    | 3    | Nut-HF, NI              |
| 10   | 114-4681    | 2    | Screw-HHF               |
| 11   | 119-4042    | 2    | Nut-HF, NI              |
| 12   | 138-4410    | 2    | Seal-Foam               |
| 13   | 138-4411    | 2    | Seal-Foam               |
| 14   | 138-4453    | 1    | Foam-Radiator           |

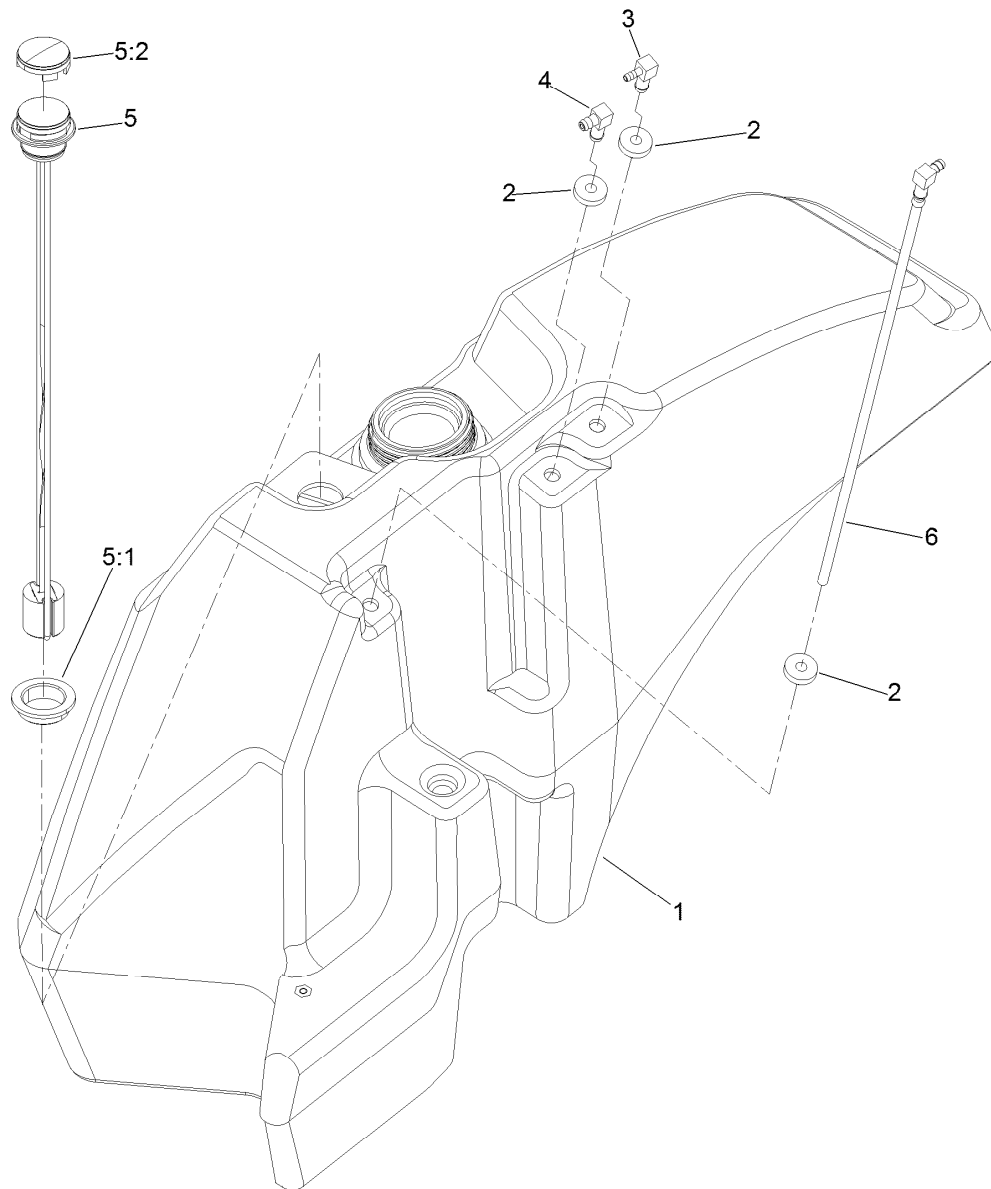
| Ref. | Part Number  | Qty. | Description              |
|------|--------------|------|--------------------------|
| 15   | 138-4454     | 2    | Foam-Radiator, Side      |
| 16   | 138-4461-0P  | 1    | Bracket-Shroud Retainer  |
| 17   | 139-6230     | 1    | Bracket-Bottle Mount     |
| 17:2 | 93-7272      | 1    | Decal-Warning            |
| 18   | 106-1126     | 1    | Hose-Fuel                |
| 19   | 108-1393     | 1    | Strip-Foam               |
| 21   | 130-8439     | 2    | Plug-Dome                |
| 22   | 63-9750      | 2    | Mount                    |
| 23   | 130-9182     | 1    | Foam-Radiator, Short     |
| 24   | 144-0472     | 1    | Decal-Coolant Level      |
| 25   | 163-1701-03  | 1    | Bracket-Cooler Shroud LH |
| 26   | 163-1702-03  | 1    | Bracket-Cooler Shroud RH |
| 27   | 144-3905     | 2    | Guide-Hose               |
| 28   | 140-7165     | 1    | Bracket-Tank             |
| 29   | 140-7185RT01 | 1    | Tank ASM                 |
| 30   | 52-2861      | 2    | Washer                   |
| 31   | 117-5138     | 1    | Cap-Radiator             |
| 31:1 | 117-3276     | 1    | Decal-Danger             |

# Fuel System Assembly



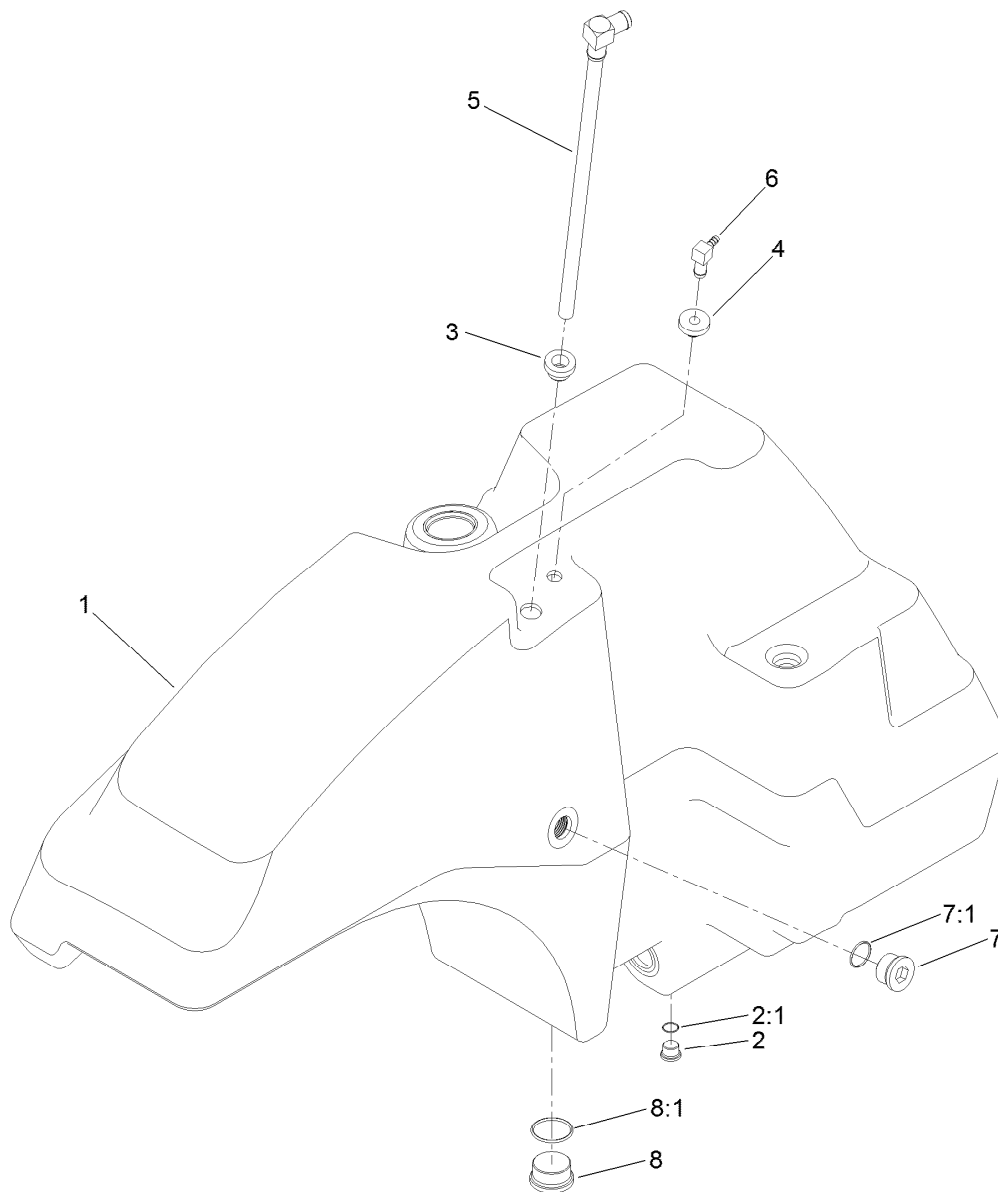
## Fuel System Assembly (continued)

| <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           | 138-0291           | 1           | Fuel Tank                       | 21          | 3253-4             | 2           | Washer-Lock                     |
| 2           | 138-4418           | 1           | Hydraulics Tank ASM             | 22          | 322-3              | 2           | Screw-HH                        |
| 3           | 114-4920           | 1           | Hose                            | 23          | 109-2365           | 8           | Bumper-Rubber                   |
| 4           | 145-5933           | 1           | Hose ASM-Hydraulic              | 24          | 104-7201           | 8           | Nut-HF, NI                      |
| 5           | 2412-119           | 3           | Clamp-Hose                      | 25          | 139-0927-01        | 1           | Bracket-Mount, Step             |
| 6           | 138-7361           | 1           | Hose-Suction                    | 26          | 2412-98            | 4           | Clamp-Hose                      |
| 7           | 2412-34            | 1           | Clamp-Hose                      | 27          | 92-2379            | 2           | Clamp-Hose                      |
| 8           | 145-6099           | 1           | Tank Support-Hydraulic          | 28          | 131-8402           | 2           | Strap-Down, Hold                |
| 8:2         | 127-0392           | 1           | Decal-Hot Surface               | 29          | 125-9171           | 1           | Cap-Fuel                        |
| 9           | 138-0441-03        | 1           | Bracket-Tank Hold Down,<br>LH   | 30          | 138-7499           | 1           | Fitting-Strainer                |
| 10          | 138-7315-03        | 1           | Bracket-Tank Hold Down,<br>RH   | 31          | 138-7388           | 1           | Dipstick                        |
| 11          | 145-6031           | 1           | Tank And Battery Tray ASM       | 32          | 94-8166            | 1           | O-Ring                          |
| 12          | 138-7365-03        | 1           | Bracket-Tank Mount, Front<br>LH | 33          | 93-7498            | 1           | Plug-Plastic                    |
| 14          | 126-4781           | 1           | Step-Deck                       | 34          | 139-6252           | 2           | Tube-Vent                       |
| 15          | 119-4042           | 19          | Nut-HF, NI                      | 35          | 139-0940-03        | 1           | Bracket-Tank Mount, Front<br>RH |
| 16          | 3231-27            | 15          | Screw-CARR                      | 36          | 139-6253           | 2           | Hose-Fuel                       |
| 17          | 3230-3             | 1           | Screw-CARR                      | 37          | 2412-72            | 4           | Clip-Closed, Insulated          |
| 18          | 137-3061           | 2           | Bolt-CARR                       | 38          | 99-6810            | 4           | Screw-HHF                       |
| 19          | 119-4041           | 3           | Nut-HF                          | 39          | 107-3154           | 6           | Nut-Push                        |
| 20          | 3256-23            | 2           | Washer-Plain                    | 40          | 3231-22            | 4           | Screw-CARR                      |
|             |                    |             |                                 | 41          | 117-0943           | 1           | Fitting-Elbow                   |



## Fuel Tank Assembly No. 138-0291

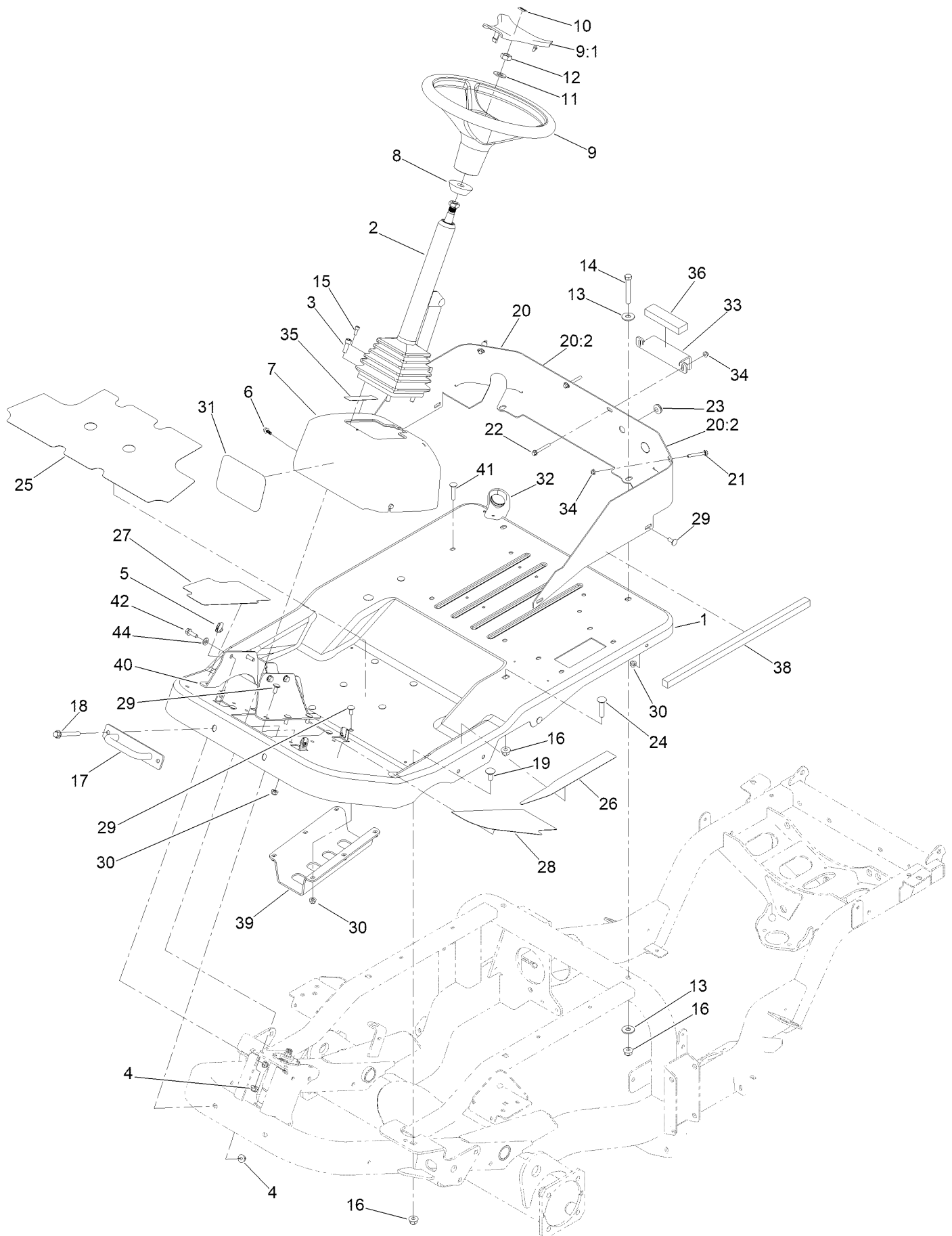
| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    | 138-7385    | 1    | Fuel Tank W/Inserts ASM |
| 2    | 46-6560     | 3    | Bushing                 |
| 3    | 104-5228    | 1    | Fitting-Elbow, 90 DEG   |
| 4    | 46-6550     | 1    | Fitting-Elbow, 90 DEG   |
| 5    | 139-0872    | 1    | Gauge-Fuel              |
| 5:1  | 119-0508    | 1    | Seal                    |
| 5:2  | 117-8404    | 1    | Dial-Gauge              |
| 6    | 138-7389    | 1    | Pipe-Stand              |



## Hydraulic Tank Assembly No. 138-4418

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 1    | 138-7386    | 1    | Tank-Hydraulic W/Inserts |
| 2    | 353-989     | 1    | Plug-Hex, Hollow         |
| 2:1  | 237-42      | 1    | O-Ring                   |
| 3    | 104-0790    | 1    | Bushing                  |
| 4    | 46-6560     | 1    | Bushing                  |
| 5    | 138-7384    | 1    | Tube-Drop                |
| 6    | 104-5228    | 1    | Fitting-Elbow, 90 DEG    |
| 7    | 139-6333    | 1    | Fitting-Plug             |
| 7:1  | 237-81      | 1    | O-Ring                   |
| 8    | 105-3921    | 1    | Fitting-Plug             |
| 8:1  | 237-146     | 1    | O-Ring                   |

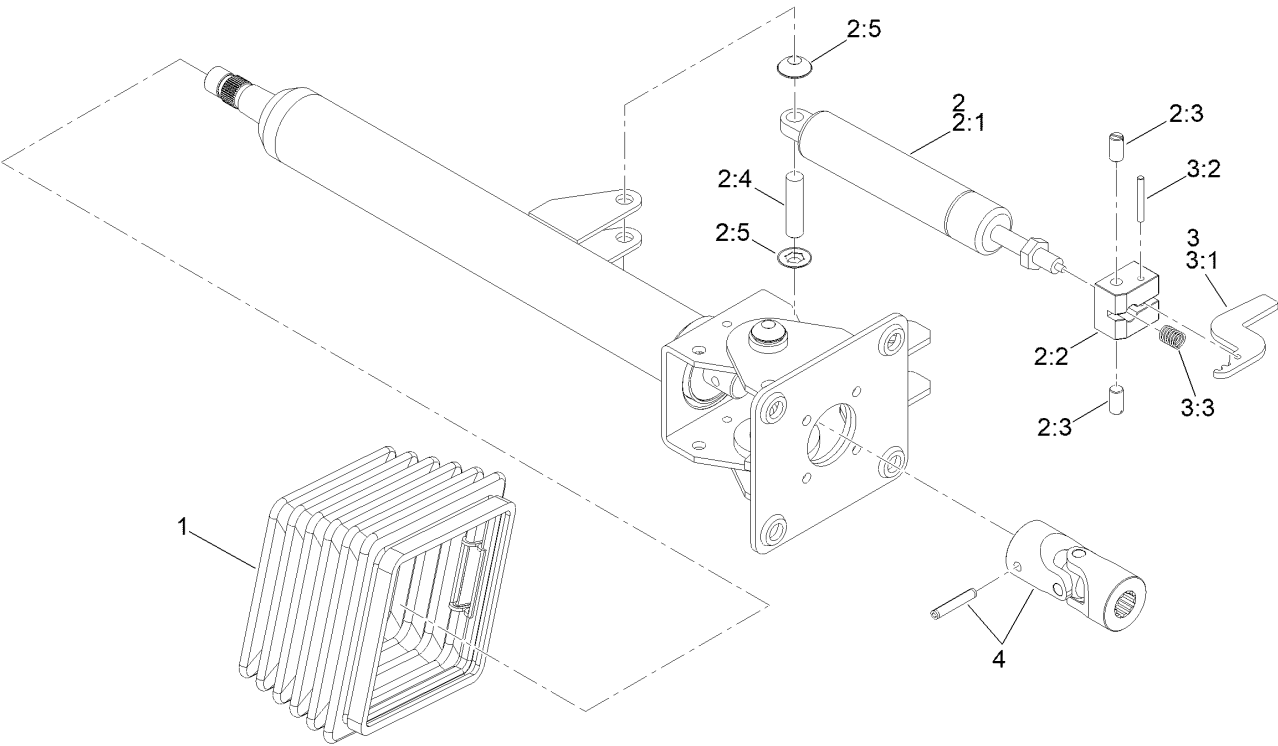
# Platform, Steering and Console Assembly



## Platform, Steering and Console 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           | 144-4030SP         | 1           | Platform-Stamped      | 21          | 125-4287           | 2           | Screw-HHF              |
| 2           | 139-0857           | 1           | Column-Steering, Tilt | 22          | 3234-34            | 2           | Screw-HHF              |
| 3           | 3274-7             | 4           | Screw-HSH             | 23          | 1-633630           | 1           | Grommet                |
| 4           | 119-4042           | 6           | Nut-HF, NI            | 24          | 3232-5             | 2           | Screw-CARR             |
| 5           | 107069             | 4           | Clip                  | 25          | 144-4029           | 1           | Tread-Foot, Main       |
| 6           | 99-6810            | 4           | Screw-HHF             | 26          | 139-0859           | 1           | Tread-Foot, Side       |
| 7           | 138-7494           | 1           | Cover-Steering        | 27          | 139-0885           | 1           | Tread-Foot, Front RH   |
| 8           | 93-5429            | 1           | Collar-Foam           | 28          | 139-0886           | 1           | Tread-Foot, Front LH   |
| 9           | 98-1471            | 1           | Wheel-Steering        | 29          | 137-3061           | 15          | Bolt-CARR              |
| 9:1         | 98-1468            | 1           | Cover-Wheel, Steering | 30          | 119-4041           | 21          | Nut-HF                 |
| 10          | 98-1459            | 1           | Decal                 | 31          | 105-1217           | 1           | Decal                  |
| 11          | 3256-27            | 1           | Washer-Flat           | 32          | 144-0473           | 1           | Plug-Harness, Firewall |
| 12          | 3296-33            | 1           | Nut-Lock, NI          | 33          | 139-2166-0P        | 1           | Bracket-Hood Support   |
| 13          | 3256-40            | 4           | Washer-Flat           | 34          | 104-7201           | 4           | Nut-HF, NI             |
| 14          | 324-12             | 2           | Screw-HH              | 35          | 140-1460           | 1           | Decal-Traction Pedal   |
| 15          | 105-2409           | 4           | Screw-HSH             | 36          | 139-6202           | 1           | Foam-Strip             |
| 16          | 114-8417           | 6           | Nut-HF, NI            | 38          | 139-6207           | 1           | Foam-Strip             |
| 17          | 138-0288           | 1           | Bracket-Down, Tie     | 39          | 144-3954-03        | 1           | Guard-Tubes, Hydraulic |
| 18          | 3234-41            | 2           | Screw-HHF             | 40          | 145-5983-0P        | 1           | Bracket-Mount,Steering |
| 19          | 3232-1             | 2           | Screw-CARR            | 41          | 116-0629           | 2           | Screw-CARR             |
| 20          | 144-0528           | 1           | Plate-Firewall, Lower | 42          | 3234-29            | 4           | Screw-HHF              |
| 20:2        | 132-1316           | 2           | Decal-Danger, Belt    | 44          | 3256-38            | 4           | Washer-Flat            |

Steering Column Assembly No. 132-6230



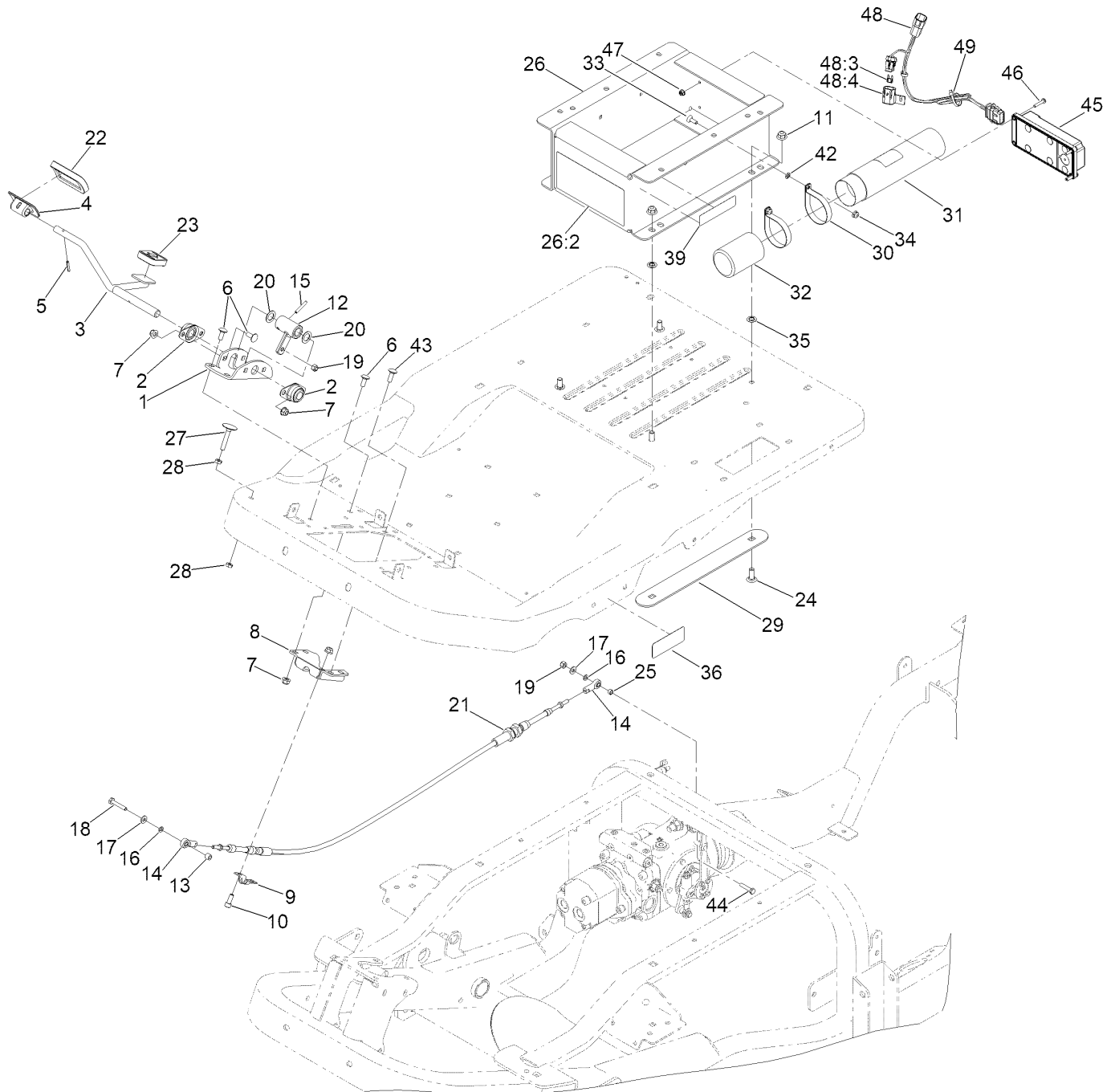
## Steering Column Assembly No. 132-6230 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>   |
|-------------|--------------------|-------------|----------------------|
| 1           | 110-6462           | 1           | Bellows-Rubber       |
| 2           | 110-6463           | 1           | Cylinder Service Kit |
| 2:1         |                    | 1           | Cylinder-Gas ●       |
| 2:2         |                    | 1           | Block-Pedal ●        |
| 2:3         |                    | 2           | Bolt ●               |
| 2:4         |                    | 1           | Pin ●                |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>  |
|-------------|--------------------|-------------|---------------------|
| 2:5         |                    | 2           | Washer-Lock ●       |
| 3           | 136-4385           | 1           | Pedal Service Kit   |
| 3:1         |                    | 1           | Pedal ●             |
| 3:2         |                    | 1           | Pin ●               |
| 3:3         |                    | 1           | Spring ●            |
| 4           | 120-6256           | 1           | Universal Joint Kit |

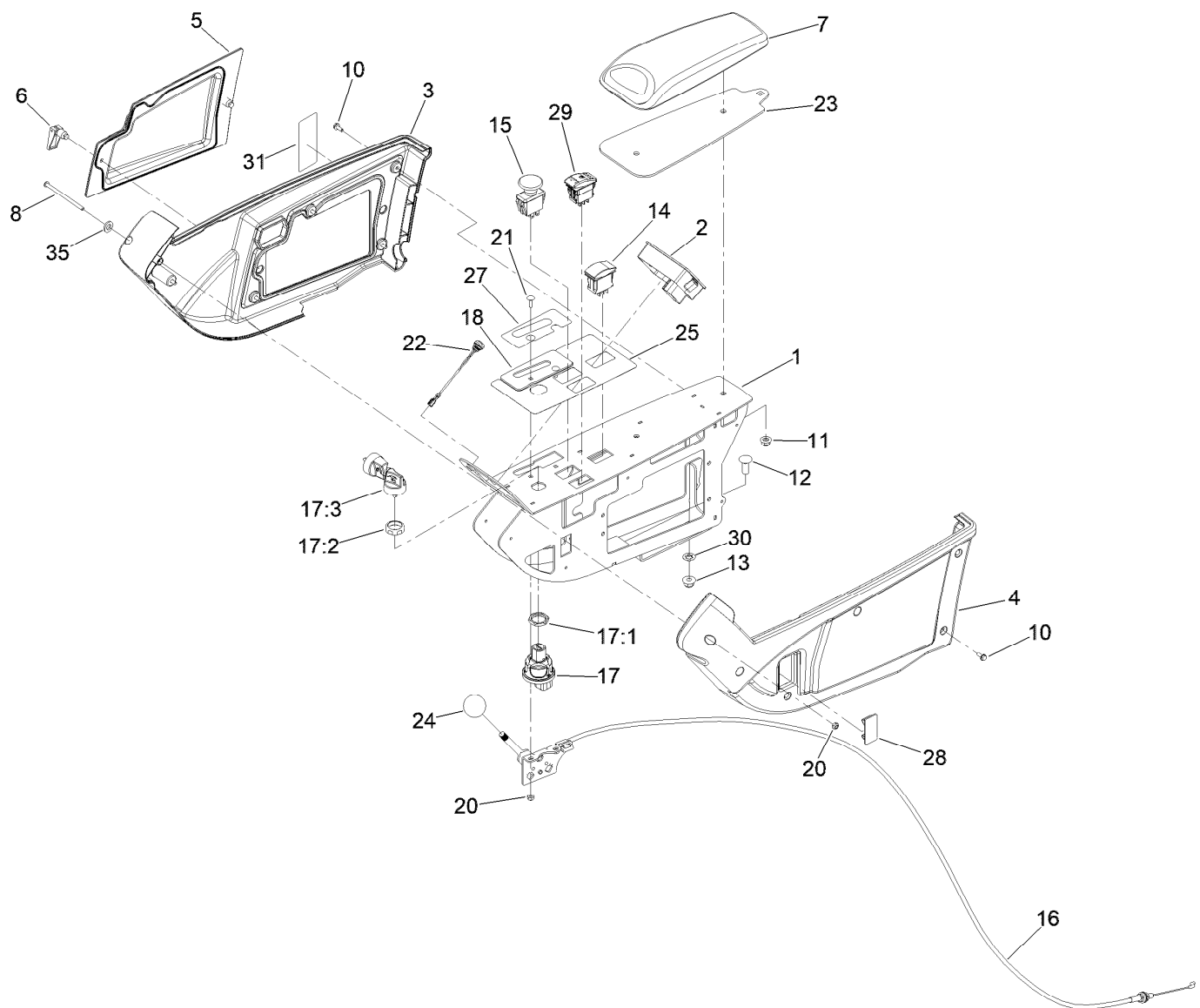
● Not serviced separately

# Pedal Assembly



## Pedal Assembly (continued)

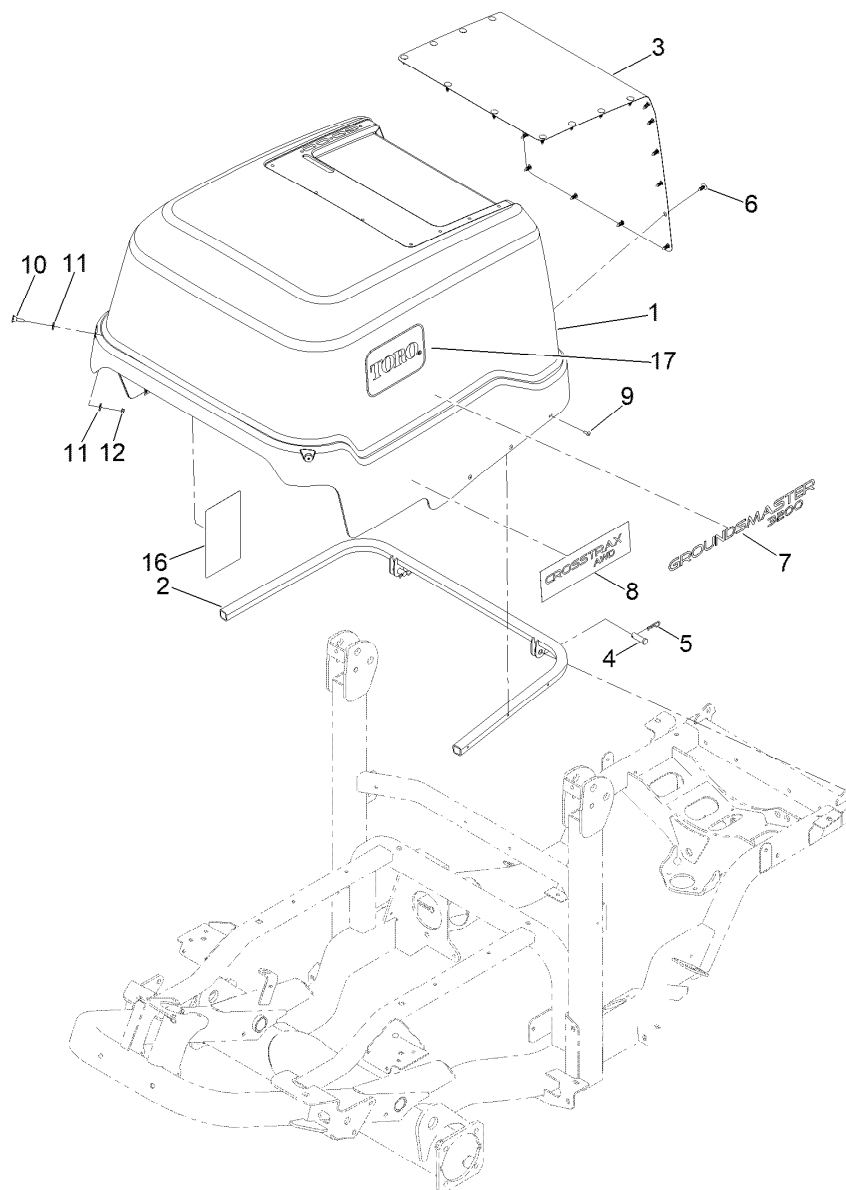
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>      | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>     |
|-------------|--------------------|-------------|-------------------------|-------------|--------------------|-------------|------------------------|
| 1           | 138-7477-01        | 1           | Bracket-Pedal, Traction | 25          | 130-9691           | 1           | Spacer                 |
| 2           | 256-236            | 2           | Bearing-Mount, Flange   | 26          | 139-6221           | 1           | Seat Box ASM           |
| 3           | 138-4594           | 1           | Pedal-Traction          | 26:2        | 163-1839           | 1           | Decal-Warning          |
| 4           | 117-9507           | 1           | Pedal-Accelerator       | 27          | 115-8240           | 1           | Screw-Elevator         |
| 5           | 32121-45           | 1           | Pin-Spring              | 28          | 3218-2             | 2           | Nut-Hex Jam            |
| 6           | 137-3061           | 11          | Bolt-CARR               | 29          | 138-7422-0P        | 2           | Strip-Seat Mount       |
| 7           | 119-4041           | 14          | Nut-HF                  | 30          | 107-1865           | 2           | R-Clamp                |
| 8           | 138-7446-01        | 1           | Bracket-Cable, Traction | 31          | 104-7050           | 1           | Tube-Manual            |
| 9           | 93-2092            | 1           | Clamp-Cable             | 32          | 104-7048           | 1           | Cap-Housing            |
| 10          | 3274-10            | 2           | Screw-HSH               | 33          | 1-807512           | 2           | Bolt-CARR              |
| 11          | 119-4042           | 4           | Nut-HF, NI              | 34          | 104-7201           | 2           | Nut-HF, NI             |
| 12          | 117-5199           | 1           | Hub-Pedal, Traction     | 35          | 107-3154           | 4           | Nut-Push               |
| 13          | 66-8010            | 1           | Spacer                  | 36          | 106-9206           | 2           | Decal-Torque, Wheel    |
| 14          | 2411-41            | 2           | Rod End-Ball Joint      | 39          | 133-8062           | 1           | Decal-Spark Arrestor   |
| 15          | 32121-6            | 1           | Pin-Roll, Slotted       | 42          | 32115-15           | 2           | Nut-Push               |
| 16          | 33093-00           | 2           | Washer-Flat             | 43          | 3230-10            | 1           | Bolt-CARR              |
| 17          | 3256-22            | 2           | Washer-Flat             | 44          | 321-8              | 1           | Screw-HH               |
| 18          | 321-9              | 1           | Screw-HH                | 45          | 161-9001           | 1           | Gateway-Telematics     |
| 19          | 3296-42            | 2           | Nut-Lock, NI            | 46          | 131-6456           | 4           | Screw-HWH              |
| 20          | 137-2601           | 2           | Washer                  | 47          | 120-4578           | 4           | Nut-HF                 |
| 21          | 145-6040           | 1           | Cable-ASM, Traction     | 48          | 122-2160           | 1           | Harness-Wire           |
| 22          | 74-9100            | 1           | Pad-Pedal, Forward      | 48:3        | 121-8861           | 1           | Fuse-Mini Blade, 2 Amp |
| 23          | 74-9110            | 1           | Pad-Pedal, Reverse      | 48:4        | 32180-101          | 1           | Cover-Fuse, Single     |
| 24          | 3231-22            | 4           | Screw-CARR              | 49          | 3290-378           | 1           | Tie-Cable              |



## Control Console Assembly

| Ref. | Part Number | Qty. | Description                  |
|------|-------------|------|------------------------------|
| 1    | 133-6406-03 | 1    | Panel                        |
| 2    | 132-9751    | 1    | Tdm 2001                     |
| 3    | 108-7605    | 1    | Cover-RH                     |
| 4    | 108-7604    | 1    | Cover-LH                     |
| 5    | 108-7616    | 1    | Panel-Access                 |
| 6    | 74-5950     | 2    | Latch-Swell                  |
| 7    | 131-9637    | 1    | Armrest-Quick Find           |
| 8    | 161-8374    | 1    | Screw-HSH                    |
| 10   | 32144-112   | 10   | Screw-HWH                    |
| 11   | 119-4041    | 2    | Nut-HF                       |
| 12   | 3231-22     | 2    | Screw-CARR                   |
| 13   | 119-4042    | 2    | Nut-HF, NI                   |
| 14   | 100-1535    | 1    | Switch-Rocker, (On)-Off-(On) |
| 15   | 93-9999     | 1    | Switch-PTO                   |
| 16   | 138-4549    | 1    | Cable-Throttle               |
| 17   | 161-4693    | 1    | Switch-Ignition              |

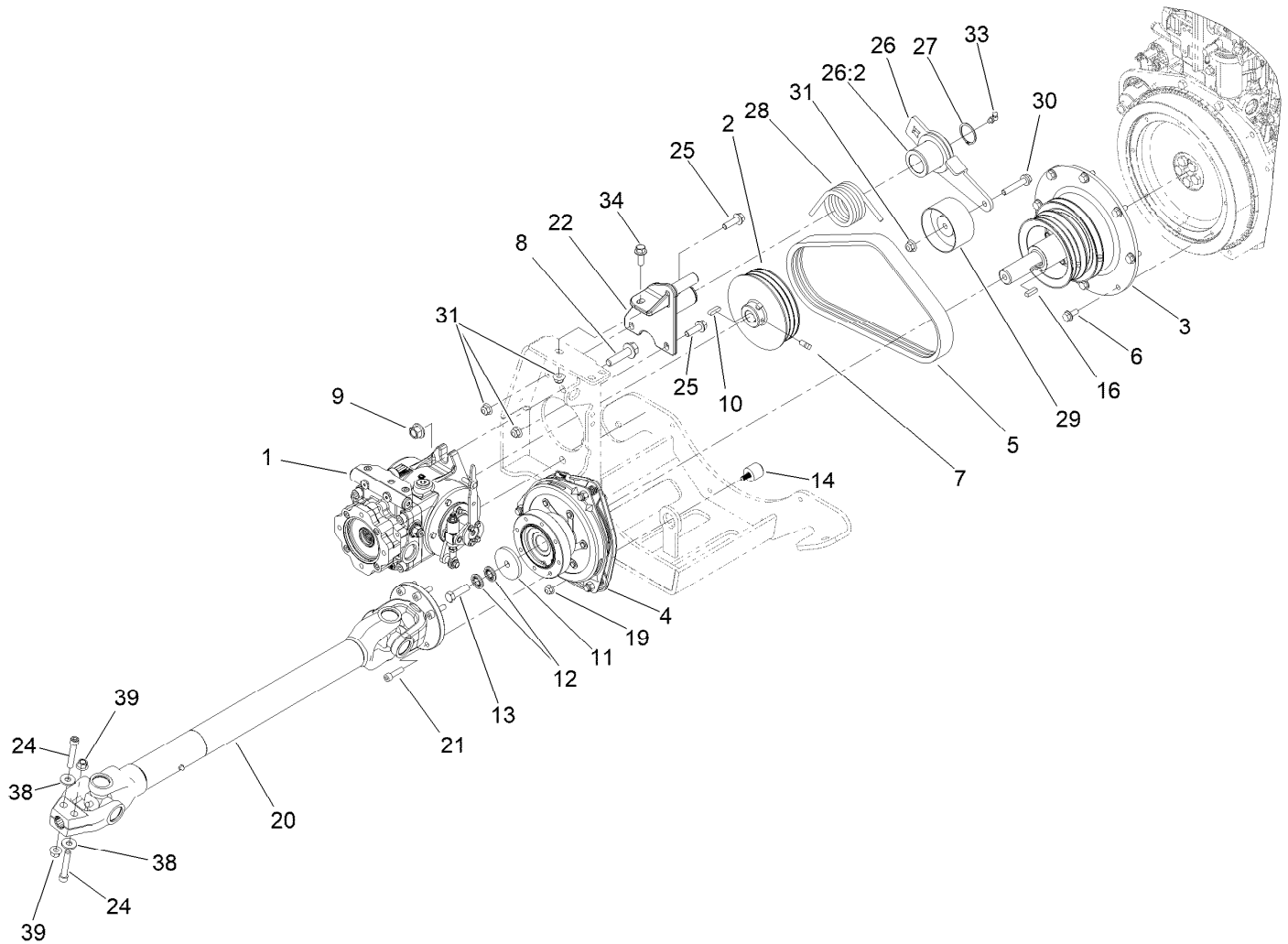
| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 17:1 | 121-5160    | 1    | Nut-Hex                    |
| 17:2 | 122-2704    | 1    | Nut-Face, M22 (Plastic)    |
| 17:3 | 121-5162    | 1    | Set-Key, Ignition          |
| 18   | 137-2510    | 1    | Cover-Throttle, Lever      |
| 20   | 3296-2      | 3    | Nut-Lock, NI               |
| 21   | 1-807533    | 2    | Bolt-CARR                  |
| 22   | 136-9678    | 1    | Cable Assy-Pushbutton      |
| 23   | 138-4548-03 | 1    | Plate-Spacer, Console Pad  |
| 24   | 1-603175    | 1    | Knob-Ball                  |
| 25   | 138-7471    | 1    | Decal-Console              |
| 27   | 138-7473    | 1    | Decal-Throttle             |
| 28   | 99-7420     | 1    | Plug-Hole                  |
| 29   | 110-0811    | 1    | Switch-Rocker On-None-(On) |
| 30   | 107-3154    | 2    | Nut-Push                   |
| 31   | 140-3125    | 1    | Decal-Fuse                 |
| 35   | 3256-51     | 1    | Washer-Flat                |



## Hood Assembly

| Ref. | Part Number | Qty. | Description             | Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|------|-------------|------|-------------------------|
| 1    | 138-7330SP  | 1    | Hood                    | 7    | 139-6151    | 2    | Decal-Identification    |
| 1:2  | 139-6225    | 1    | Tape-Heat, Hood Front ● | 8    | 110-8859    | 2    | Decal                   |
| 1:3  | 139-6226    | 1    | Tape-Heat, Hood Rear ●  | 9    | 114439      | 10   | Rivet-Blind             |
| 1:4  | 139-6227    | 1    | Tape-Heat, Hood Side ●  | 10   | 139-0855    | 2    | Screw-Countersunk, Oval |
| 2    | 138-7331-03 | 1    | Support-Hood            | 11   | 3256-2      | 4    | Washer-Flat             |
| 3    | 138-7474-03 | 1    | Screen-Cooler           | 12   | 3296-56     | 2    | Nut-Lock, NI            |
| 4    | 283-68      | 2    | Pin-Clevis              | 16   | 144-0518    | 1    | Decal-Service, Gm3200   |
| 5    | 3290-467    | 2    | Pin-Hair                | 17   | 62-7400     | 2    | Decal-Toro Logo         |
| 6    | 117-2382    | 24   | Plug-Plastic            |      |             |      |                         |

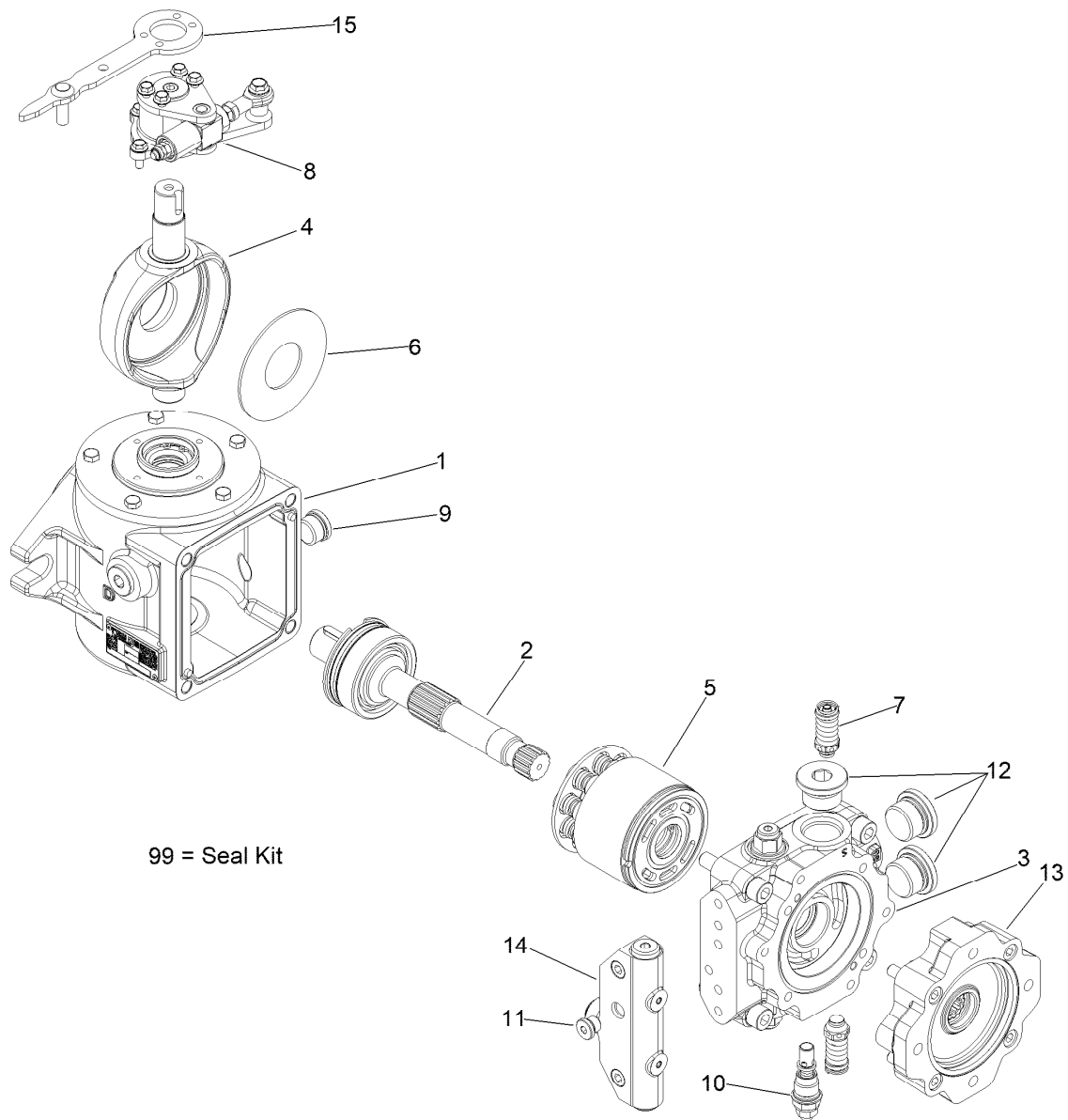
● Not illustrated



## Pump, Driveshaft and Clutch Assembly

| Ref. | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 1    | 145-5940    | 1    | Pump-Bondioli             |
| 2    | 145-6044    | 1    | Pulley-3/3V               |
| 3    | 147-0050    | 1    | Stubshaft-3/3V            |
| 4    | 145-5987    | 1    | Clutch-Gt5 W/Integral Con |
| 5    | 139-6259    | 1    | Belt-3/3V                 |
| 6    | 138-0690    | 8    | Screw-HHF, Patch          |
| 7    | 1-803022    | 2    | Screw-Set                 |
| 8    | 133-0041    | 2    | Screw-HF                  |
| 9    | 139-1689    | 2    | Nut-HF                    |
| 10   | 94-3645     | 1    | Key                       |
| 11   | 139-6238    | 1    | Washer                    |
| 12   | 1-603610    | 2    | Washer-Spring             |
| 13   | 109-9761    | 1    | Screw-HH                  |
| 14   | 147-0060    | 1    | Bumper                    |
| 16   | 10-7070     | 1    | Key-Square                |
| 19   | 119-4041    | 2    | Nut-HF                    |

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 20   | 163-1700SP  | 1    | Driveshaft             |
| 21   | 144-0452    | 6    | Screw-HSH, Patch       |
| 22   | 140-6200    | 1    | Idler Pivot (Mach)     |
| 24   | 131-8591    | 2    | Screw-HSH              |
| 25   | 119-4061    | 2    | Screw-HHF              |
| 26   | 140-6179    | 1    | Idler Arm ASM          |
| 26:2 | 93-4510     | 2    | Bushing-Caster         |
| 27   | 32120-84    | 1    | Ring-Snap, External    |
| 28   | 140-3102    | 1    | Spring-Torsion         |
| 29   | 144-3904    | 1    | Pulley-Tensioner       |
| 30   | 108-3742    | 1    | Screw-HHF              |
| 31   | 119-4042    | 4    | Nut-HF, NI             |
| 33   | 302-40      | 1    | Fitting-Grease, 90 DEG |
| 34   | 3234-42     | 1    | Screw-HHF              |
| 38   | 80-6990     | 2    | Washer-Hardened        |
| 39   | 32128-36    | 2    | Nut-HF                 |

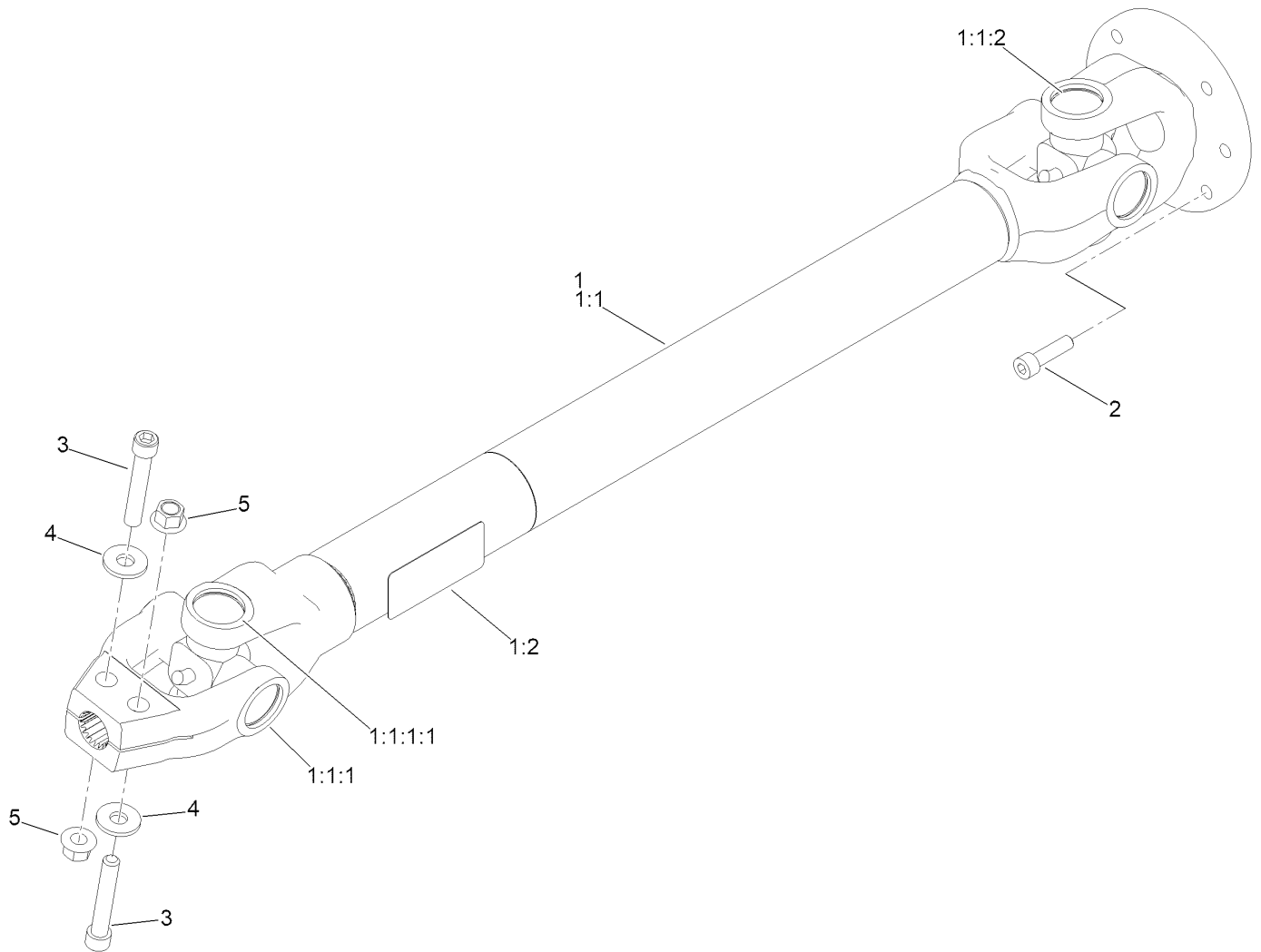


## Pump Assembly No. 145-5940

| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 1    | 147-0161    | 1    | Housing-Pump        |
| 2    | 147-0162    | 1    | Shaft ASM           |
| 3    | 147-0163    | 1    | Valve Body          |
| 4    | 147-0164    | 1    | Plate-Swash         |
| 5    | 147-0165    | 1    | Rotating ASM        |
| 6    | 147-0166    | 1    | Plate-Swash, Insert |
| 7    | 147-0167    | 1    | Valve, 250 Bar      |
| 8    | 147-0168    | 1    | Spring Return ASM   |

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 9    | 147-0169    | 1    | Cap-Seal               |
| 10   | 147-0170    | 1    | Valve-Relief 10-15 Bar |
| 11   | 147-0171    | 1    | Plug, 7/16-20 Unf      |
| 12   | 147-0172    | 1    | Plug, 1-1/16-12 Unf    |
| 13   | 147-0173    | 1    | Endcap-Pump            |
| 14   | 147-0174    | 1    | Exchange Valve ASM     |
| 15   | 147-0175    | 1    | Lever-Control          |
| 99   | 147-0176    | 1    | Seal Kit               |

# Driveshaft Assembly No. 163-1700SP



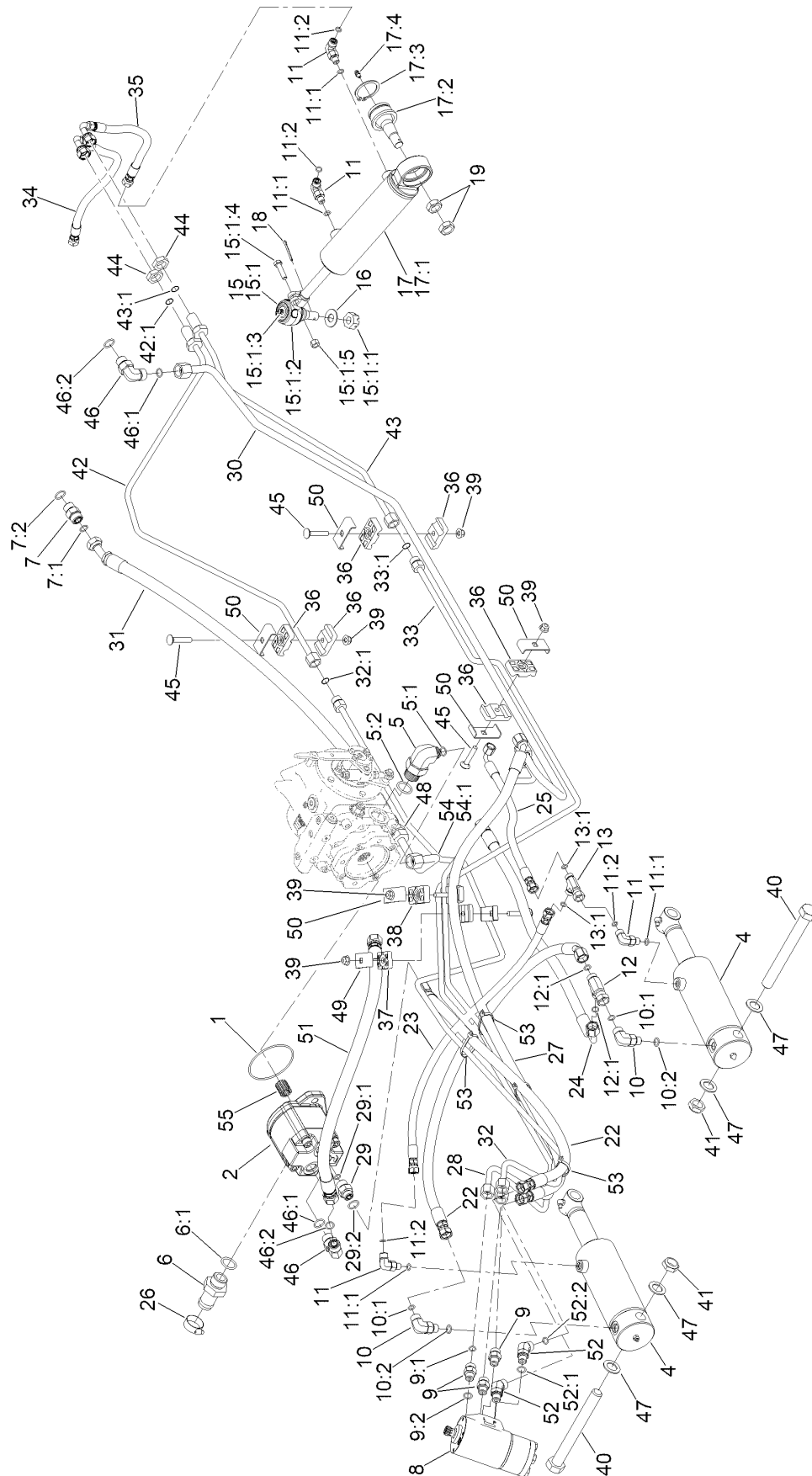
## Driveshaft Assembly No. 163-1700SP (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>            |
|-------------|--------------------|-------------|-------------------------------|
| 1           |                    | 1           | Driveshaft ASM ●              |
| 1:1         |                    | 1           | Shaft-Drive ●                 |
| 1:1:1       | 144-0519           | 1           | Yoke-Splined W/Cross Joint    |
| 1:1:1:1     | 144-0550           | 1           | Bearing-Cross Joint           |
| 1:1:2       | 144-0550           | 1           | Bearing-Cross Joint           |
| 1:2         | 139-6304           | 1           | Decal-Danger,<br>Entanglement |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 2           | 144-0452           | 6           | Screw-HSH, Patch   |
| 3           | 131-8591           | 2           | Screw-HSH          |
| 4           | 80-6990            | 2           | Washer-Hardened    |
| 5           | 32128-36           | 2           | Nut-HF             |

● Not serviced separately

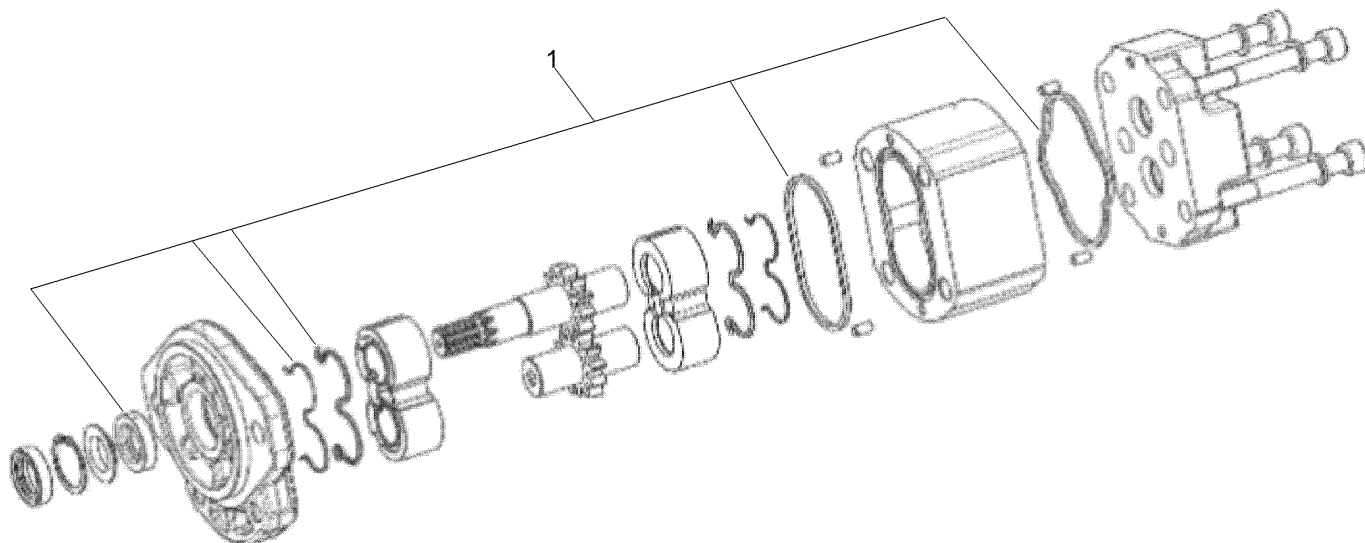
# Hydraulic Assembly



## Hydraulic Assembly (continued)

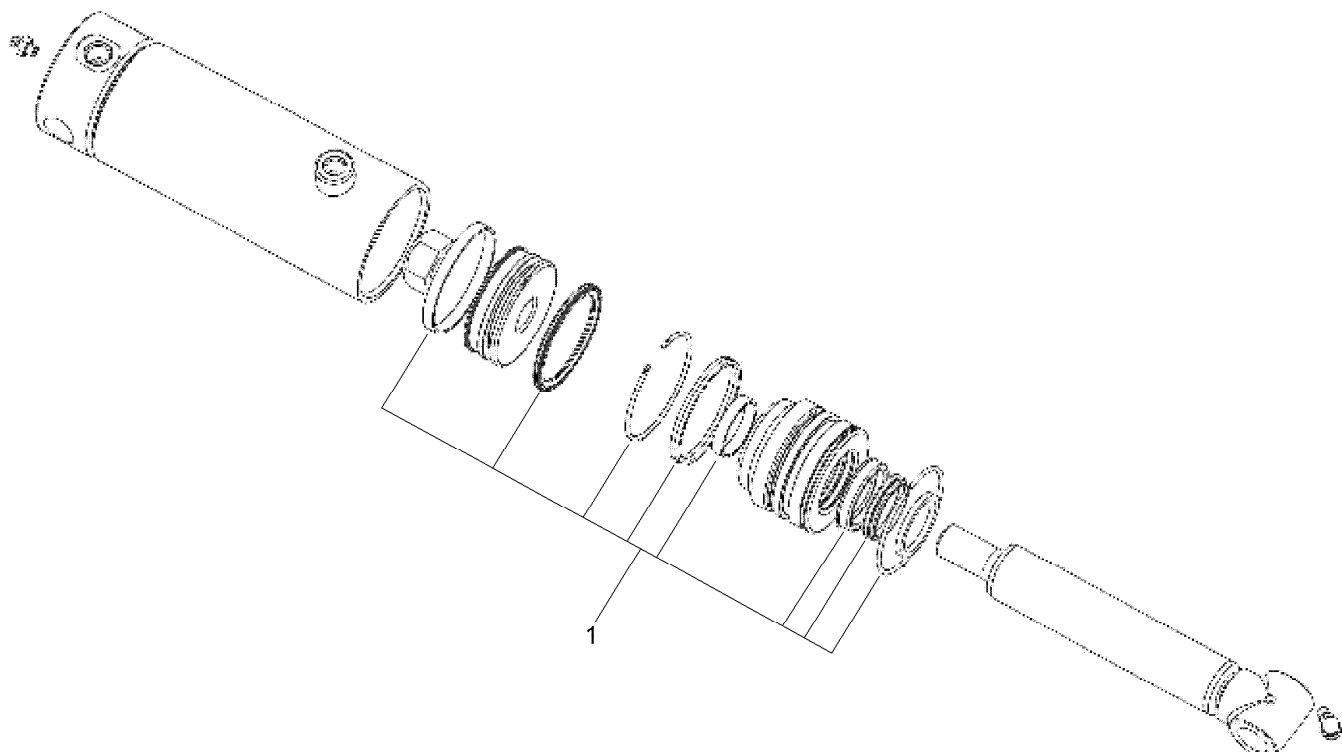
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>       | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>     |
|-------------|--------------------|-------------|--------------------------|-------------|--------------------|-------------|------------------------|
| 1           | 237-161            | 1           | O-Ring                   | 24          | 137-5846           | 1           | Hose ASM               |
| 2           | 147-5115           | 1           | Pump-Gear                | 25          | 137-5847           | 1           | Hose ASM               |
| 4           | 139-0854           | 2           | Cylinder-Hydraulic       | 26          | 2412-34            | 1           | Clamp-Hose             |
| 5           | 340-131            | 1           | Fitting-HYD, 90 DEG      | 27          | 140-3097           | 1           | Hose ASM               |
| 5:1         | 237-30             | 1           | O-Ring                   | 28          | 138-0331           | 1           | Hydraulic Tube ASM     |
| 5:2         | 237-81             | 1           | O-Ring                   | 29          | 340-3              | 1           | Fitting-Straight       |
| 6           | 99-3017            | 1           | Fitting                  | 29:1        | 237-22             | 1           | O-Ring                 |
| 6:1         | 237-81             | 1           | O-Ring                   | 29:2        | 237-79             | 1           | O-Ring                 |
| 7           | 340-4              | 1           | Fitting-Straight         | 30          | 138-7448           | 1           | Hydraulic Tube ASM     |
| 7:1         | 237-30             | 1           | O-Ring                   | 31          | 145-5934           | 1           | Hose ASM-Hydraulic     |
| 7:2         | 237-79             | 1           | O-Ring                   | 32          | 145-5959           | 1           | Hydraulic Tube ASM     |
| 8           | 114-8119           | 1           | Steering Valve ASM       | 32:1        | 237-22             | 1           | O-Ring                 |
| 9           | 340-2              | 3           | Fitting-Straight         | 33          | 145-5930           | 1           | Hydraulic Tube ASM     |
| 9:1         | 237-22             | 1           | O-Ring                   | 33:1        | 237-22             | 1           | O-Ring                 |
| 9:2         | 237-42             | 1           | O-Ring                   | 34          | 115-0383           | 1           | Hose ASM               |
| 10          | 340-77             | 2           | Fitting-Elbow, 90 DEG    | 35          | 137-2584           | 1           | Hose ASM               |
| 10:1        | 237-22             | 1           | O-Ring                   | 36          | 56-7972            | 6           | Clamp-Tube             |
| 10:2        | 237-42             | 1           | O-Ring                   | 37          | 56-7973            | 2           | Clamp-Tube             |
| 11          | 340-132            | 4           | Fitting-Elbow, 90 DEG    | 38          | 56-7970            | 2           | Clamp-Tube             |
| 11:1        | 237-78             | 1           | O-Ring                   | 39          | 119-4041           | 5           | Nut-HF                 |
| 11:2        | 237-21             | 1           | O-Ring                   | 40          | 328-23             | 2           | Screw-HH               |
| 12          | 340-115            | 1           | Fitting-Tee              | 41          | HDW02059           | 2           | Nut-Hex                |
| 12:1        | 237-22             | 2           | O-Ring                   | 42          | 138-0343           | 1           | Hydraulic Tube ASM     |
| 13          | 340-151            | 1           | Fitting-Tee              | 42:1        | 237-22             | 1           | O-Ring                 |
| 13:1        | 237-21             | 2           | O-Ring                   | 43          | 138-0344           | 1           | Hydraulic Tube ASM     |
| 15          | 106-6895-03        | 1           | Ball Joint ASM           | 43:1        | 237-22             | 1           | O-Ring                 |
| 15:1        |                    | 1           | Joint-Ball ●             | 44          | 340-70             | 2           | Nut-Lock               |
| 15:1:1      | 32136-13           | 1           | Nut-SHH                  | 45          | 3230-5             | 5           | Bolt-CARR              |
| 15:1:2      | 106-6896           | 1           | Seal                     | 46          | 340-98             | 2           | Fitting-Elbow, 90 DEG  |
| 15:1:3      | 302-5              | 1           | Fitting-Grease           | 46:1        | 237-79             | 1           | O-Ring                 |
| 15:1:4      | 3210-7             | 1           | Screw-HH                 | 46:2        | 237-30             | 1           | O-Ring                 |
| 15:1:5      | 32152-5            | 1           | Nut-Hex                  | 47          | 126-7888           | 4           | Washer-Nylon           |
| 16          | 69-8980            | 1           | Washer                   | 48          | 340-127            | 1           | Nut-Bulkhead           |
| 17          |                    | 1           | Steering Cylinder ASM ●  | 49          | 119-1418           | 2           | Plate-Clamp, Short     |
| 17:1        | 139-6277           | 1           | Steering Cylinder        | 50          | 119-1419           | 6           | Plate-Clamp            |
| 17:2        | 106-6774           | 1           | Joint-Ball               | 51          | 145-5931           | 1           | Hose ASM-Hydraulic     |
| 17:3        | 32151-104          | 1           | Ring-Retaining, External | 52          | 340-87             | 2           | Fitting-Elbow, 45 DEG  |
| 17:4        | 302-5              | 1           | Fitting-Grease           | 52:1        | 237-22             | 1           | O-Ring                 |
| 18          | 3272-12            | 1           | Pin-Cotter               | 52:2        | 237-42             | 1           | O-Ring                 |
| 19          | 3220-6             | 2           | Nut-Jam                  | 53          | 3290-378           | 4           | Tie-Cable              |
| 22          | 137-5844           | 2           | Hose ASM                 | 54          | 145-5945           | 1           | Hydraulic Tube ASM     |
| 22          | 137-5844RT03       | 1           | Hose ASM                 | 54:1        | 237-30             | 1           | O-Ring                 |
| 23          | 137-5845           | 1           | Hose ASM                 | 55          | 147-0196           | 1           | Coupler-Pump, Bondioli |

● Not serviced separately



## **Gear Pump Assembly No. 147-5115**

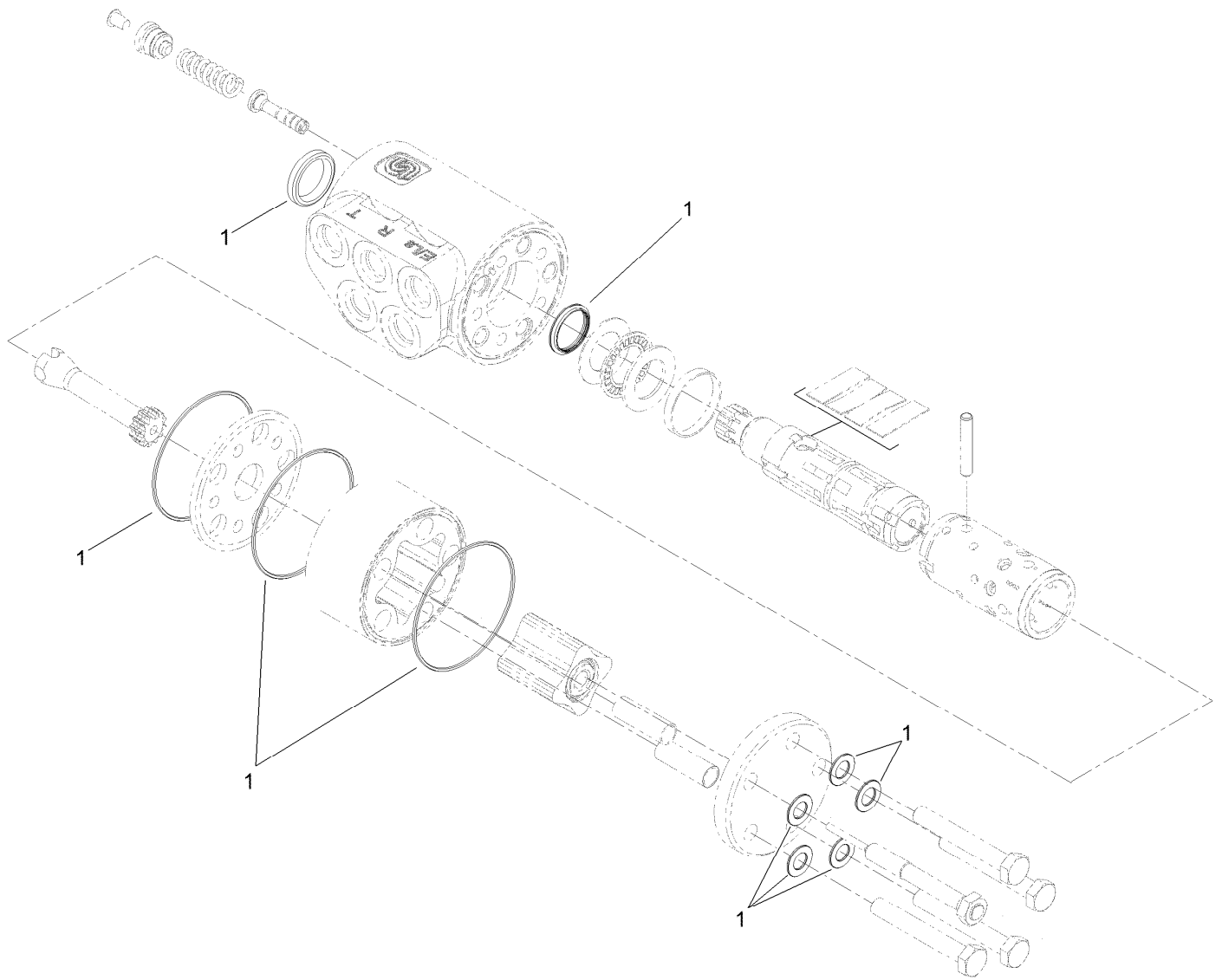
| <b><i>Ref.</i></b> | <b><i>Part Number</i></b> | <b><i>Qty.</i></b> | <b><i>Description</i></b> |
|--------------------|---------------------------|--------------------|---------------------------|
| 1                  | 145-2794                  | 1                  | Seal Kit                  |



## Hydraulic Cylinder No. 139-0854

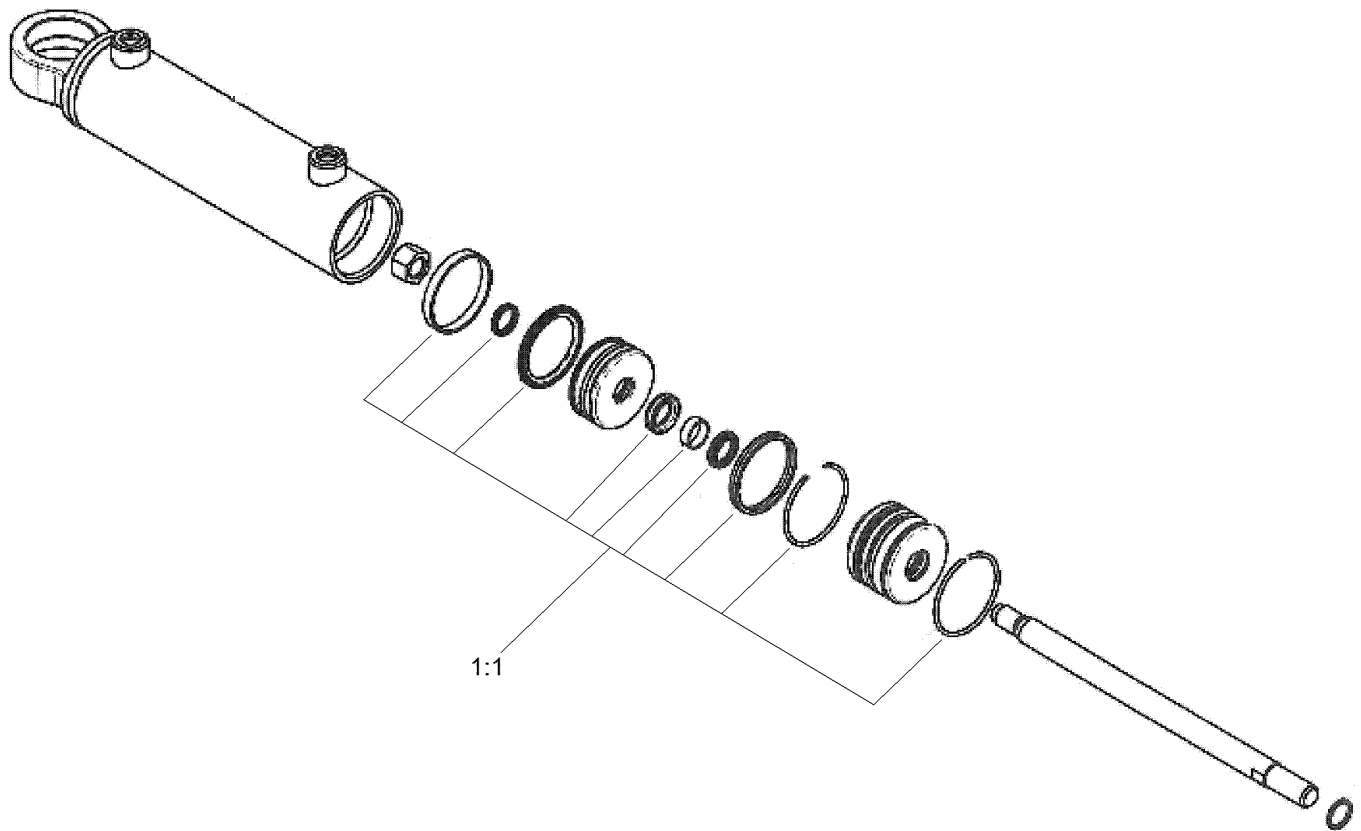
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 140-3110           | 1           | Kit-Seal ●         |

● Not illustrated



## Steering Valve Assembly No. 114-8119

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 106-6716           | 1           | Seal Kit           |

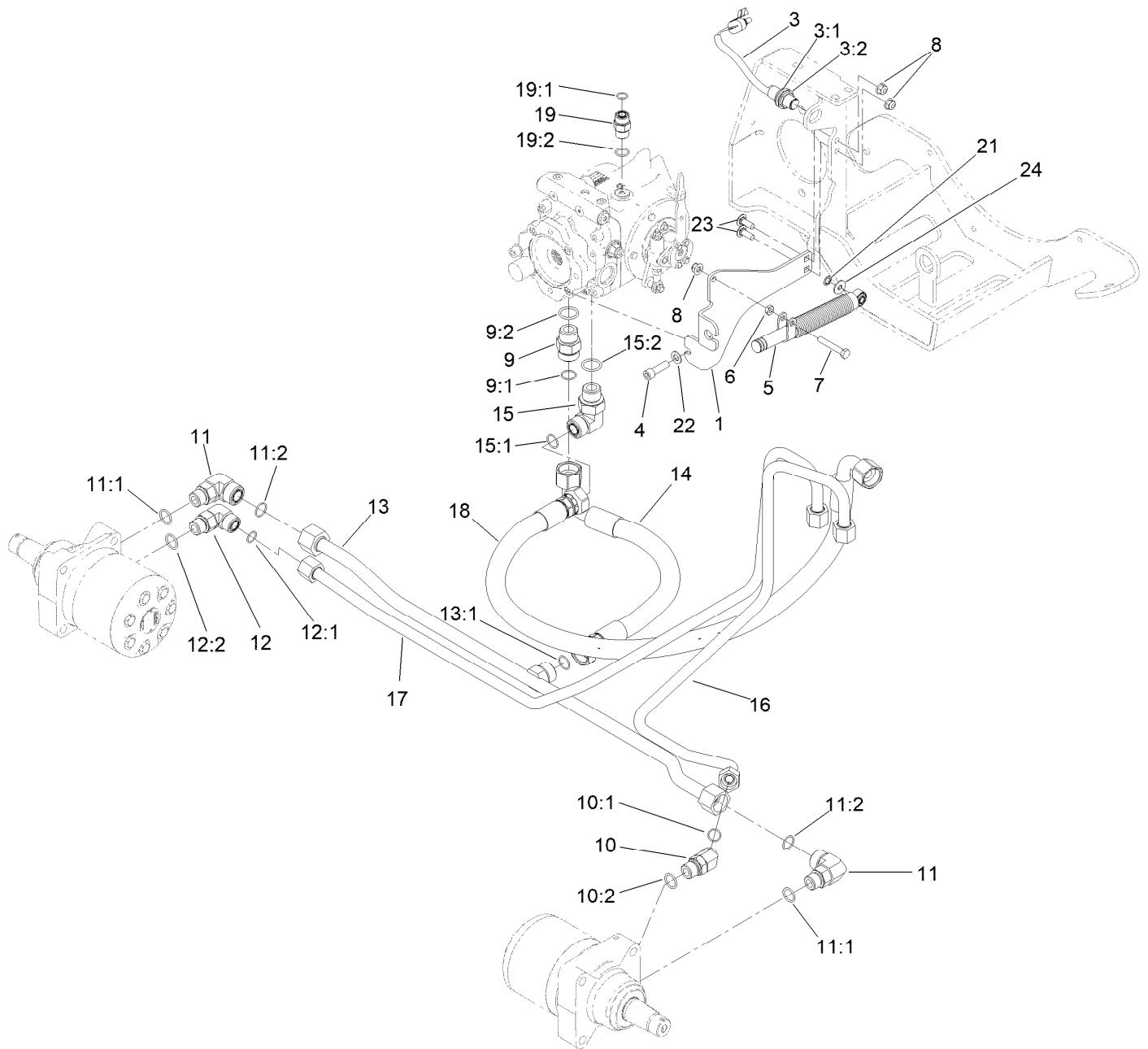


## Steering Cylinder Assembly No. 139-6277

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>  |
|-------------|--------------------|-------------|---------------------|
| 1:1         | 131-7756           | 1           | Cylinder Seal Kit ● |

● Not illustrated

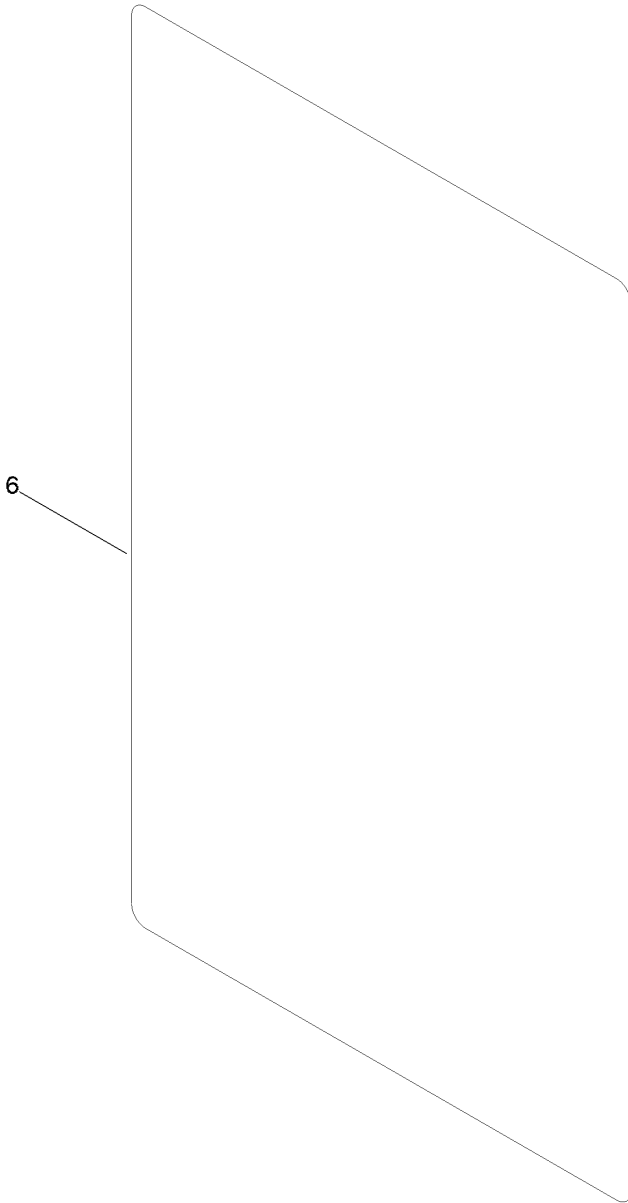
# Hydraulic Traction Assembly



## Hydraulic Traction 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           | 145-6065-0P        | 1           | Plate-Cable Mount               | 12:1        | 237-65             | 1           | O-Ring                              |
| 3           | 115-5300           | 1           | Sensor, Proximity Sensor<br>ASM | 12:2        | 237-80             | 1           | O-Ring                              |
| 3:1         | 117-3207           | 2           | Nut-Hex                         | 13          | 138-0340           | 1           | Hydraulic Tube ASM                  |
| 3:2         | 117-3208           | 2           | Washer-Lock, Internal Tooth     | 13:1        | 237-58             | 1           | O-Ring                              |
| 4           | ST80801            | 2           | Screw-HSH                       | 14          | 145-5928           | 1           | Hose ASM-Hydraulic                  |
| 5           | 140-6248           | 1           | Damper                          | 15          | 340-142            | 1           | Fitting-Elbow, 90 DEG               |
| 6           | 3218-2             | 1           | Nut-Hex Jam                     | 15:1        | 237-58             | 1           | O-Ring                              |
| 7           | 322-10             | 1           | Screw-HH                        | 15:2        | 237-81             | 1           | O-Ring                              |
| 8           | 119-4041           | 3           | Nut-HF                          | 16          | 145-5929           | 1           | Hydraulic Tube ASM                  |
| 9           | 340-9              | 1           | Fitting-STR                     | 17          | 145-5923           | 1           | Hydraulic Tube ASM                  |
| 9:1         | 237-58             | 1           | O-Ring                          | 18          | 145-5927           | 1           | Hose ASM-Hydraulic                  |
| 9:2         | 237-81             | 1           | O-Ring                          | 19          | 340-4              | 1           | Fitting-Straight                    |
| 10          | 340-14             | 1           | Fitting-HYD, 45 DEG             | 19:1        | 237-30             | 1           | O-Ring                              |
| 10:1        | 237-65             | 1           | O-Ring                          | 19:2        | 237-79             | 1           | O-Ring                              |
| 10:2        | 237-80             | 1           | O-Ring                          | 21          | 32151-72           | 1           | Ring-Retaining                      |
| 11          | 340-16             | 2           | Fitting-HYD, 90 DEG             | 22          | 107-1413           | 2           | Washer-Hardened                     |
| 11:1        | 237-80             | 1           | O-Ring                          | 23          | 3230-10            | 2           | Bolt-CARR                           |
| 11:2        | 237-58             | 1           | O-Ring                          | 24          | HDW14535           | 1           | Flat Washer, 5/16<br>Nom,ST/ST,18-8 |
| 12          | 340-17             | 1           | Fitting-Elbow, 90 DEG           |             |                    |             |                                     |

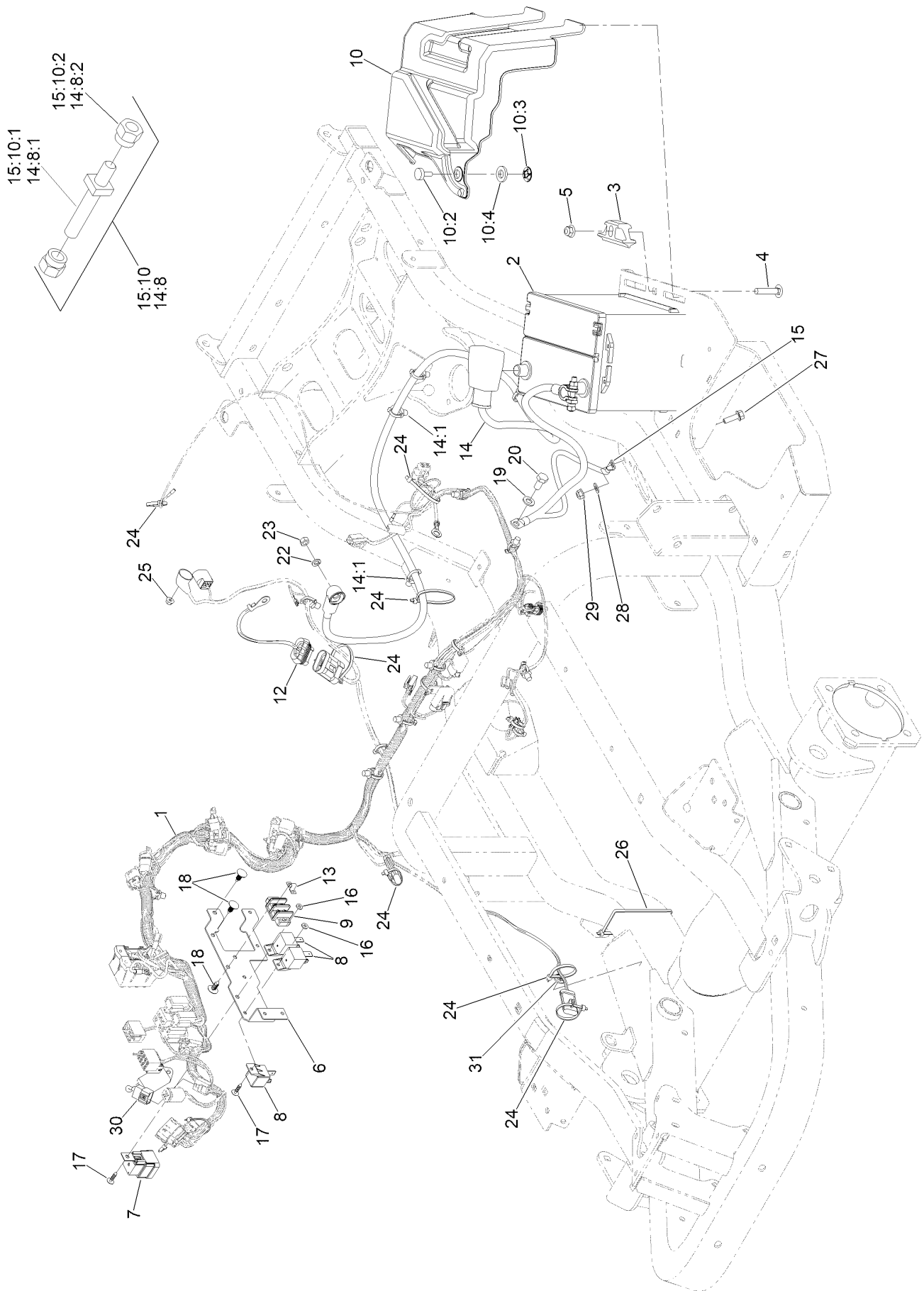
# Miscellaneous Parts Assembly



## Miscellaneous Parts Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 6           | 144-3952           | 1           | Decal-Slope        |

# Electrical Assembly



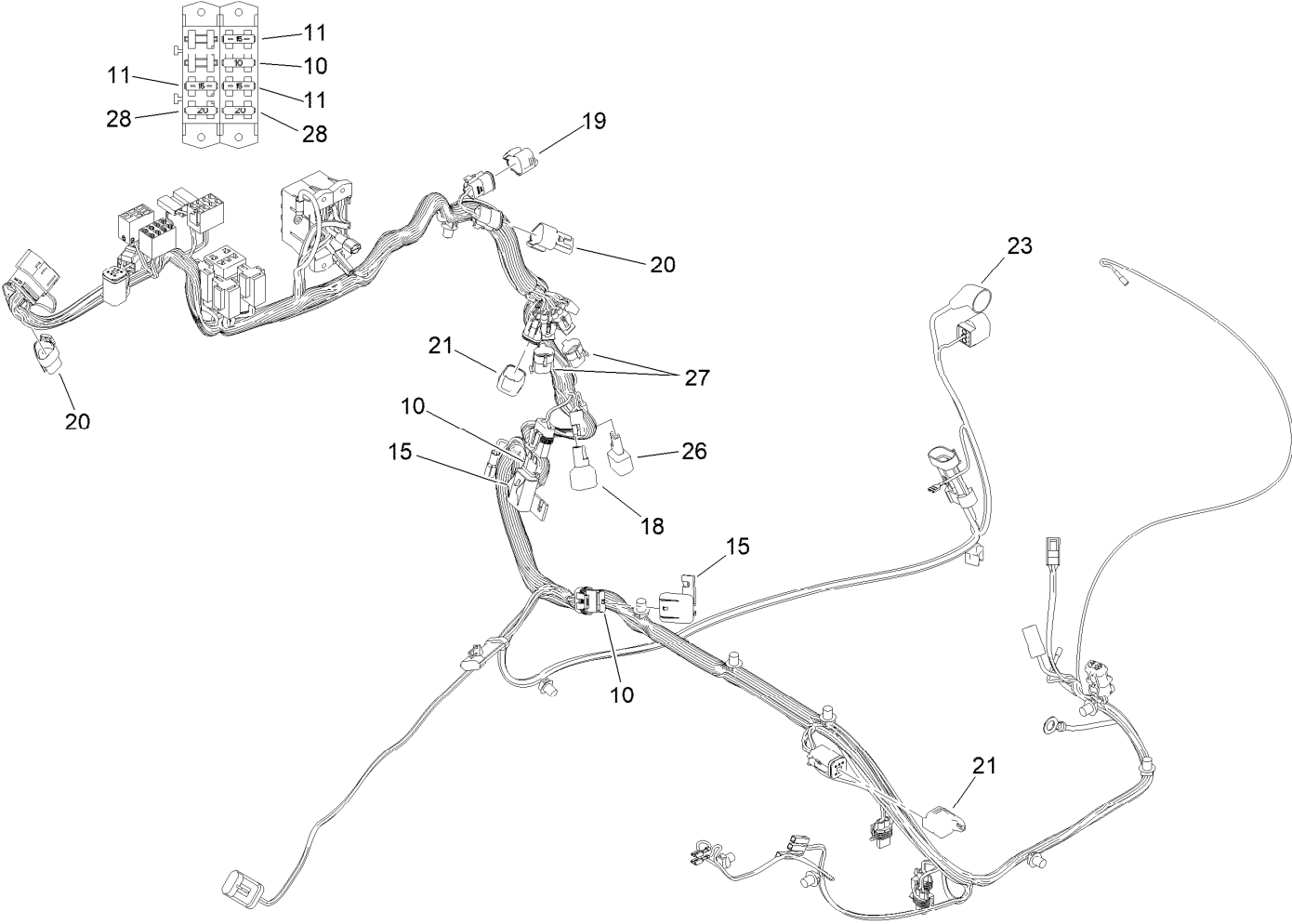
## Electrical Assembly (continued)

| <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           | 122-2518           | 1           | Harness-Wire, Main                | 15          | 122-1276           | 1           | Cable-Battery, Negative  |
| 2           |                    | 1           | Battery - Wet, 12V, 540 CCA<br>■▲ |             |                    |             | ASM                      |
| 3           | 138-6335           | 1           | Retainer-Battery                  | 15:10       |                    | 1           | Bolt ASM ●▲              |
| 4           | 3231-29            | 1           | Screw-CARR                        | 15:10:1     | 32180-107          | 1           | Bolt-Clamp, Battery      |
| 5           | 119-4042           | 1           | Nut-HF, NI                        | 15:10:2     | 32180-108          | 2           | Nut-Hex Shoulder         |
| 6           | 138-7467-0P        | 1           | Bracket-Electrical                | 16          | 3256-21            | 2           | Washer-Flat              |
| 7           | 99-7430            | 1           | Relay-Mini                        | 17          | 125-8067           | 2           | Plug-Plastic             |
| 8           | 99-7435            | 3           | Relay                             | 18          | 117-2382           | 8           | Plug-Plastic             |
| 9           | 42862              | 1           | Block-Terminal, Ground            | 19          | 33095-00           | 1           | Washer-Flat              |
| 10          | 140-9010           | 1           | Battery Cover ASM                 | 20          | 33115-020          | 1           | Screw-HH                 |
| 10:2        | 140-9033           | 1           | Knob-Stud                         | 22          | 3253-4             | 1           | Washer-Lock              |
| 10:3        | 32115-15           | 1           | Nut-Push                          | 23          | 33014-00           | 1           | Nut-Hex                  |
| 10:4        | 3256-22            | 1           | Washer-Flat                       | 24          | 3290-378           | 7           | Tie-Cable                |
| 12          | 99-3441            | 1           | Harness-Wire, Fusible Link        | 25          | 33003-00           | 1           | Nut-HF                   |
| 13          | 42863              | 1           | Strip-Jumper                      | 26          | 3290-379           | 1           | Tie-Cable                |
| 14          | 122-1275           | 1           | Cable-Battery, Positive ASM       | 27          | 3234-29            | 1           | Screw-HHF                |
| 14:1        | 32180-115          | 1           | Panduit, Cable Tie                | 28          | 120-9683           | 1           | Washer-Plain             |
| 14:8        |                    | 1           | Bolt ASM ●▲                       | 29          | 119-4041           | 1           | Nut-HF                   |
| 14:8:1      | 32180-107          | 1           | Bolt-Clamp, Battery               | 30          | 134-1507RT01       | 1           | Timer-Glowplug           |
| 14:8:2      | 32180-108          | 2           | Nut-Hex Shoulder                  | 31          | 32180-139          | 1           | Mount-Tie Wrap, Magnetic |

● Not illustrated  
▲ Not serviced separately

■ Obtain locally.

Wire Harness Assembly No. 122-2518

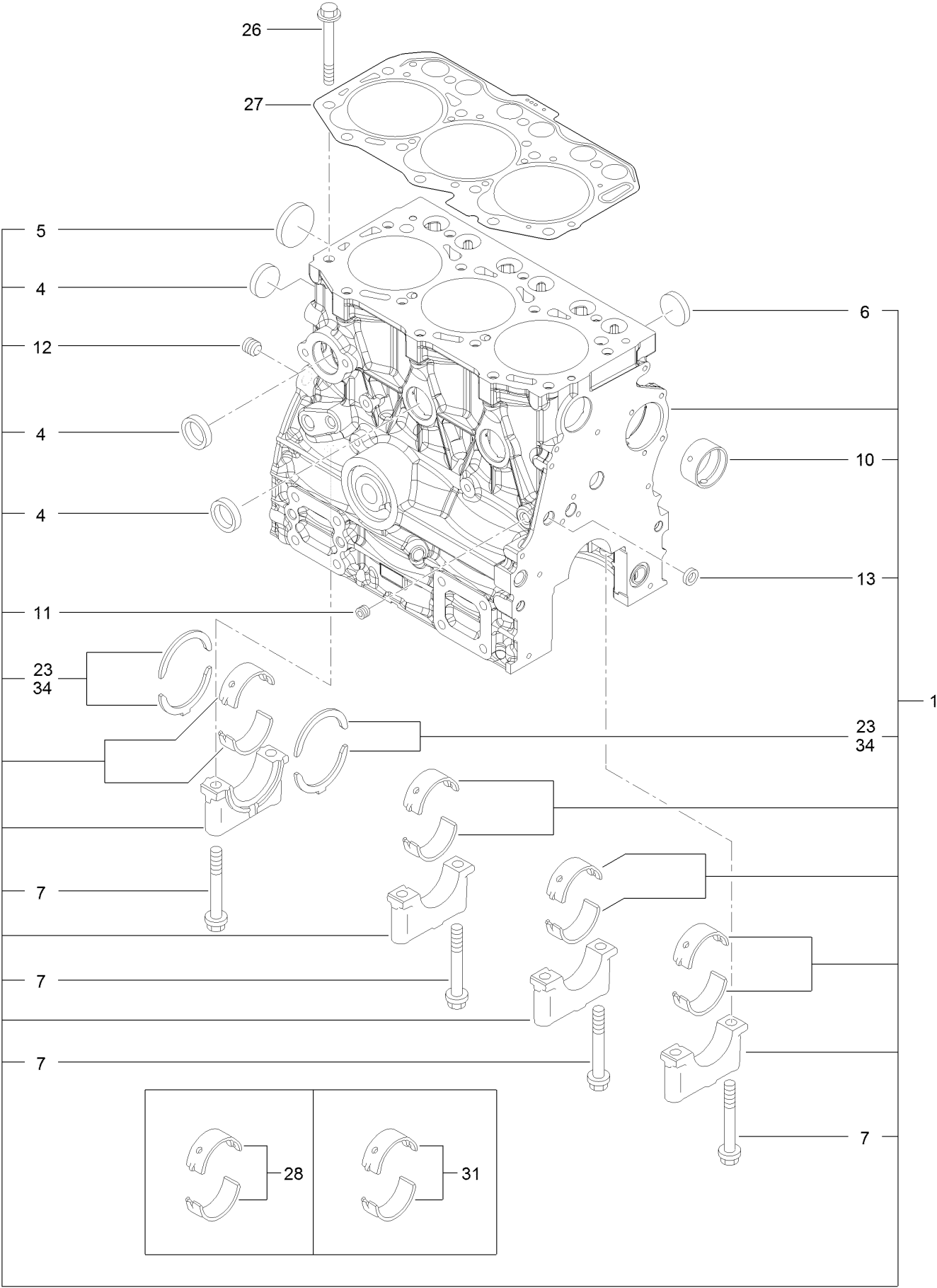


## Wire Harness Assembly No. 122-2518 (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 10          | 218-578            | 3           | Fuse-Blade, 10 Amp |
| 11          | 109355             | 3           | Fuse-Blade, 15 Amp |
| 15          | 32180-019          | 2           | Cover-Fuse, Single |
| 18          | 108-9493           | 1           | Diode-Tvs          |
| 19          | 32180-089          | 1           | Cap-Plug, 3 Way    |
| 20          | 32180-043          | 2           | Resistor-120 Ohm   |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>        |
|-------------|--------------------|-------------|---------------------------|
| 21          | 32180-156          | 2           | Cap-Plug, 6 Way           |
| 23          | 32180-017          | 1           | Insulator-Terminal, Black |
| 26          | 104-4022           | 1           | Resistor-75 Ohm           |
| 27          | 32180-056          | 2           | Cap                       |
| 28          | 109101             | 2           | Fuse-Blade, 20 Amp        |

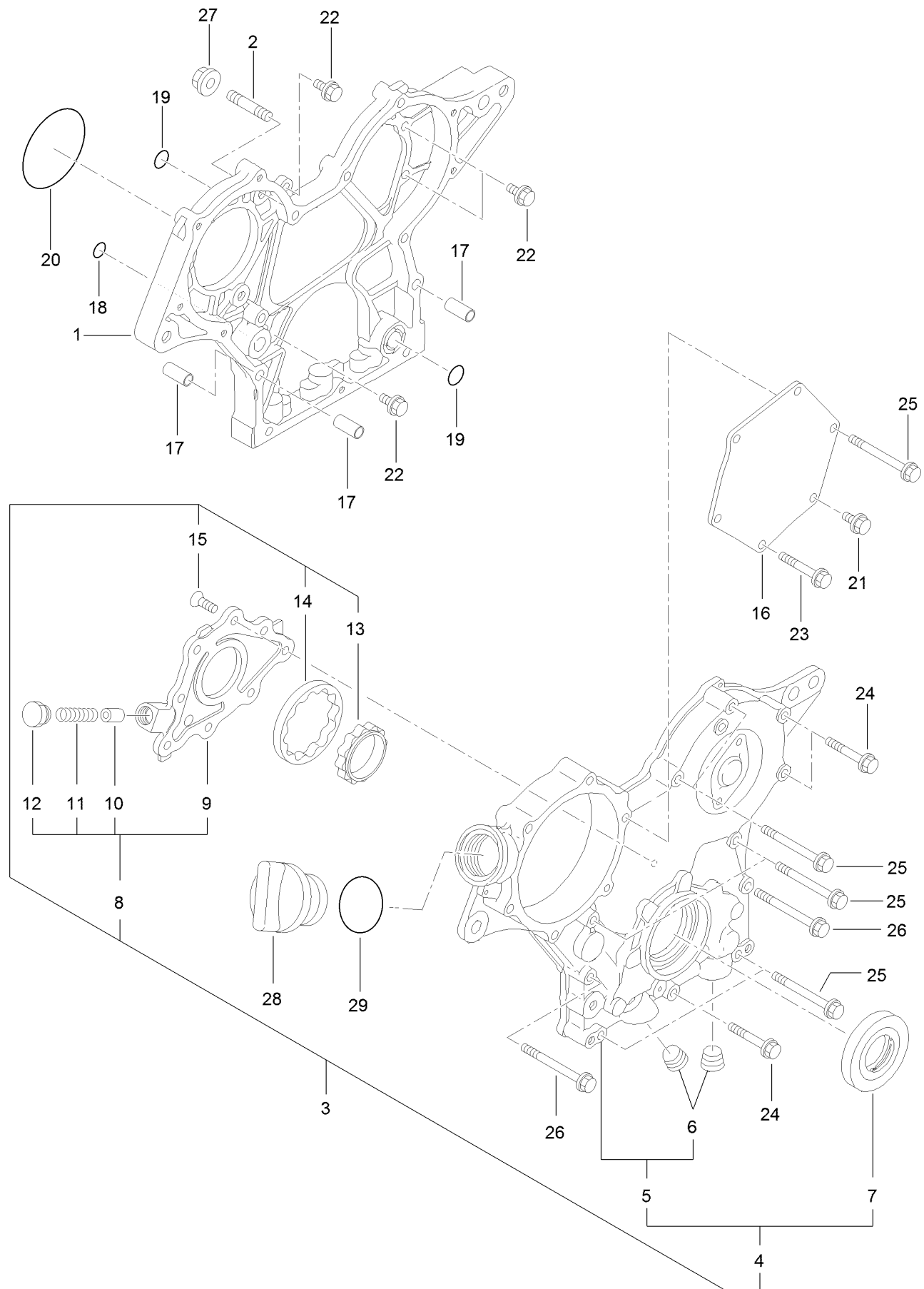
# Cylinder Block Assembly



## Cylinder Block 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           | 135-4030           | 1           | Cylinder Block ASM | 13          | 125-7237           | 1           | Plug                |
| 4           | 135-4031           | 4           | Plug-Cup           | 23          | 135-4036           | 2           | Thrust Bearing ASM  |
| 5           | 135-4032           | 1           | Plug-Dish          | 26          | 135-4037           | 14          | Bolt-Head, Cylinder |
| 6           | 135-4033           | 3           | Plug-Cup           | 27          | 135-4038           | 1           | Head Gasket Set     |
| 7           | 135-4034           | 8           | Bolt-Cap           | 28          | 135-4039           | 1           | Main Bearing ASM    |
| 10          | 135-4035           | 1           | Bushing-Camshaft   | 31          | 135-4040           | 2           | Main Bearing ASM    |
| 11          | 125-6969           | 1           | Plug               | 34          | 135-4041           | 2           | Bearing-Thrust      |
| 12          | 125-6973           | 1           | Plug               |             |                    |             |                     |

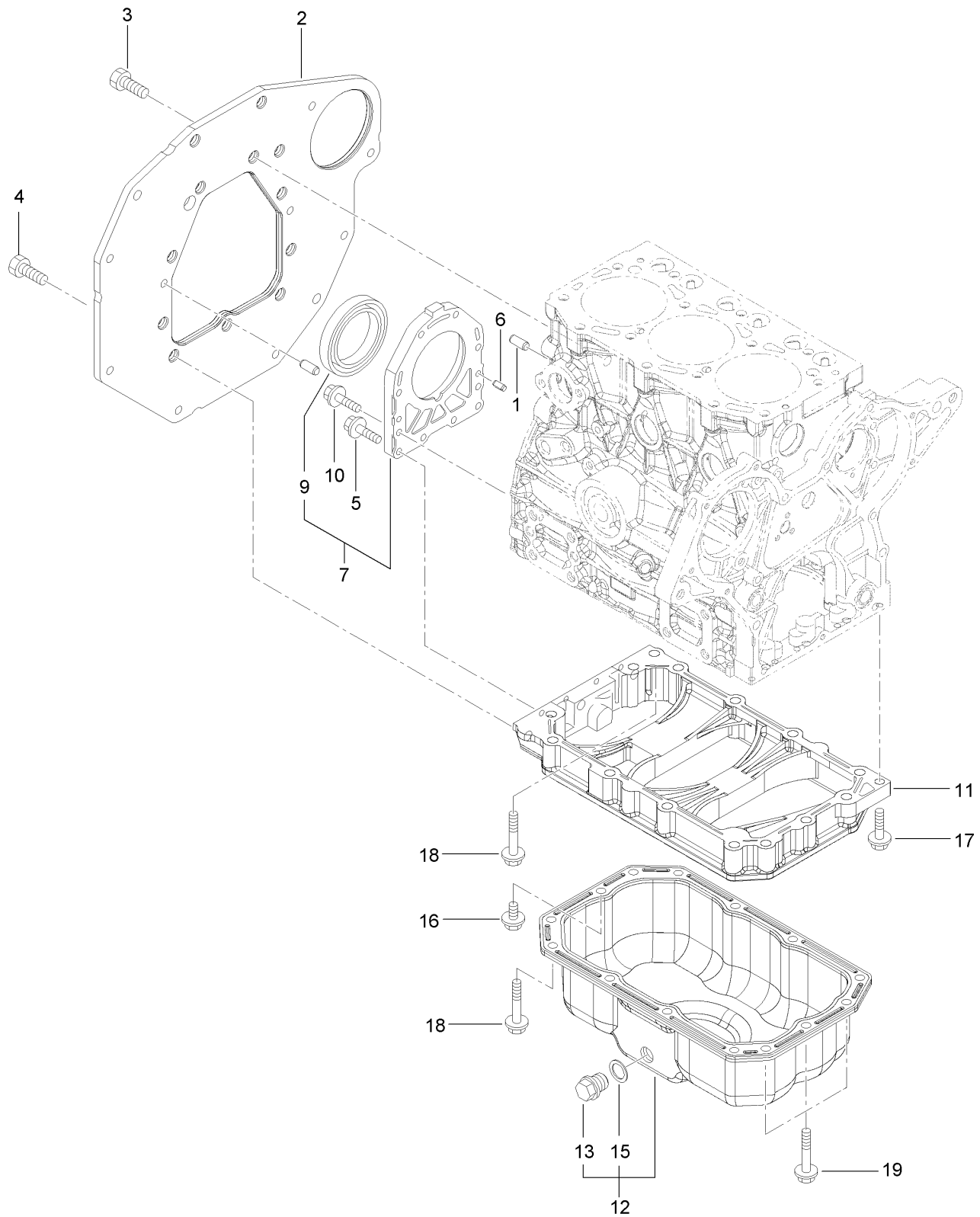
# Gear Housing Assembly



## Gear Housing 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           | 135-4042           | 1           | Case-Gear           | 16          | 135-4056           | 1           | Cover-Pump         |
| 2           | 135-4043           | 3           | Bolt-Stud           | 17          | 135-4057           | 4           | Dowel-Pipe         |
| 3           | 135-4044           | 1           | Gear Case Cover ASM | 18          | 127-2973           | 1           | O-Ring             |
| 4           | 135-4045           | 1           | Gear Case Cover ASM | 19          | 135-4058           | 3           | O-Ring             |
| 5           | 135-4046           | 1           | Cover-Case, Gear    | 20          | 125-6957           | 1           | O-Ring             |
| 6           | 133-6798           | 2           | Plug                | 21          | 125-7206           | 1           | Bolt               |
| 7           | 135-4047           | 1           | Seal-Oil            | 22          | 125-7208           | 4           | Bolt               |
| 8           | 135-4048           | 1           | Cover ASM           | 23          | 125-7211           | 4           | Bolt               |
| 9           | 135-4049           | 1           | Cover-Pump          | 24          | 125-7211           | 3           | Bolt               |
| 10          | 135-4050           | 1           | Valve-Relief        | 25          | 135-4059           | 7           | Bolt               |
| 11          | 135-4051           | 1           | Spring              | 26          | 136-8257           | 2           | Bolt               |
| 12          | 135-4052           | 1           | Plug                | 27          | 125-7229           | 3           | Nut                |
| 13          | 135-4053           | 1           | Rotor-Inner         | 28          | 125-6972           | 1           | Cover-Filler       |
| 14          | 135-4054           | 1           | Rotor-Outer         | 29          | 125-7197           | 1           | O-Ring             |
| 15          | 135-4055           | 8           | Screw               |             |                    |             |                    |

# Mounting Flange and Oil Sump Assembly

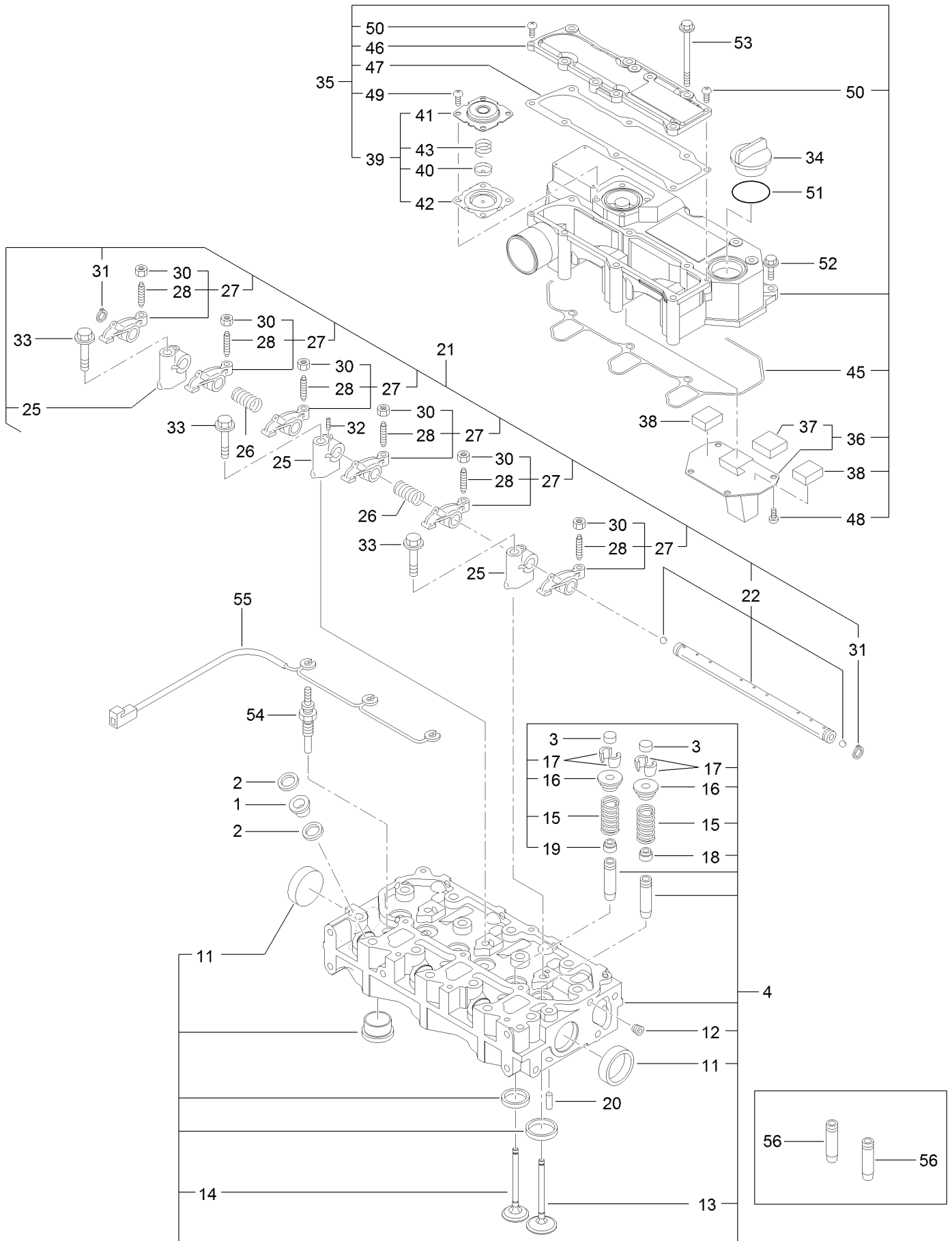


## Mounting Flange and Oil Sump Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 125-6995           | 2           | Pin                |
| 2           | 140-7156           | 1           | Flange-Mounting    |
| 3           | 140-7181           | 9           | Bolt               |
| 4           | 125-7226           | 3           | Bolt               |
| 5           | 140-7152           | 4           | Bolt               |
| 6           | 135-4062           | 2           | Pin-Parallel       |
| 7           | 140-7160           | 1           | Case Oil Seal ASM  |
| 9           | 135-4064           | 1           | Seal-Oil           |
| 10          | 135-4065           | 6           | Bolt               |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 11          | 135-4066           | 1           | Spacer-Pan, Oil    |
| 12          | 134-1398           | 1           | Oil Pan ASM        |
| 13          | 135-4068           | 1           | Plug               |
| 15          | 136-8236           | 1           | Washer-Seal        |
| 16          | 125-7212           | 1           | Bolt               |
| 17          | 125-7216           | 1           | Bolt               |
| 18          | 125-7219           | 11          | Bolt               |
| 19          | 125-7220           | 3           | Bolt               |

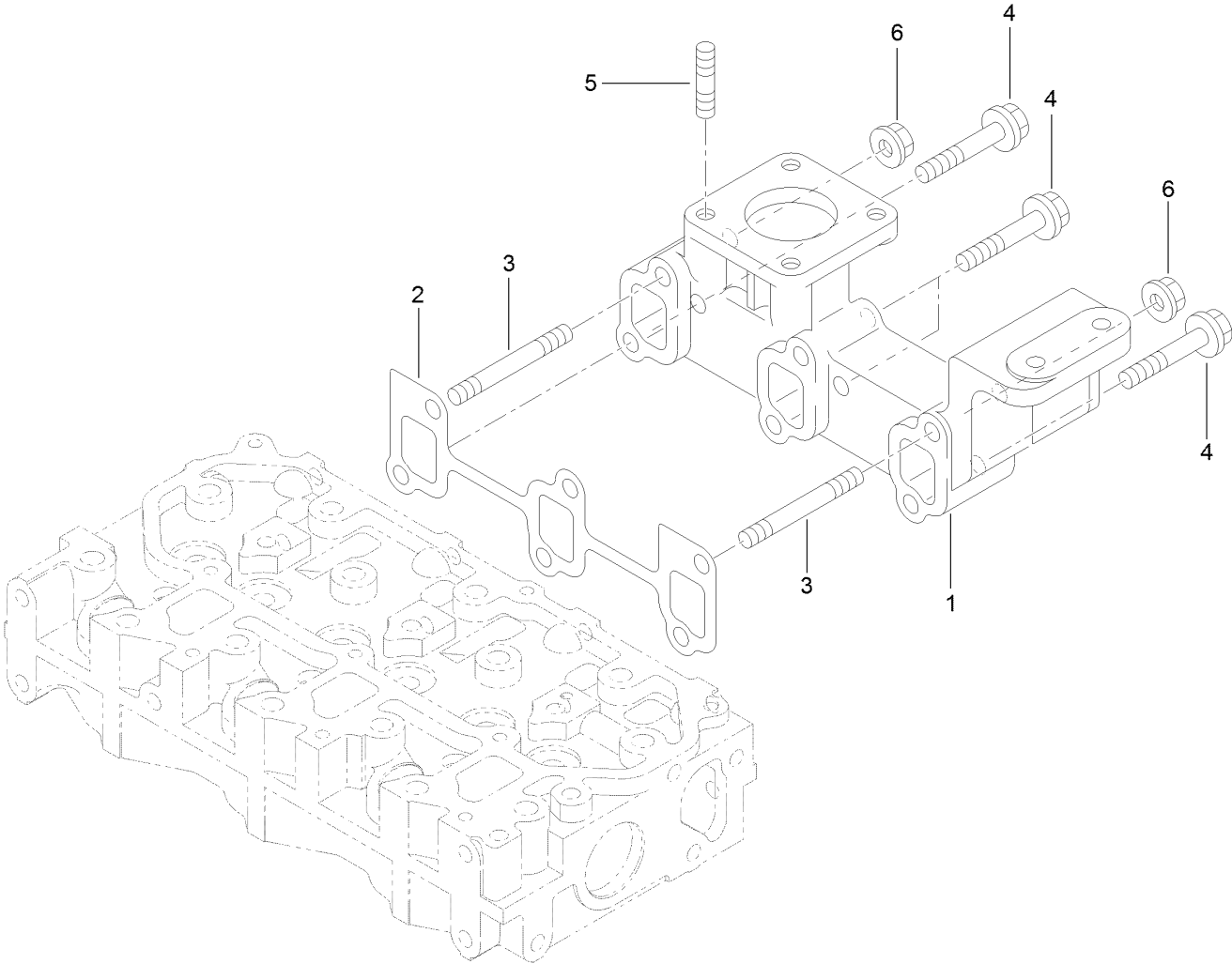
# Cylinder Head and Cover Assembly



## Cylinder Head and 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           | 135-4069           | 3           | Protector-Nozzle    | 34          | 125-6972           | 1           | Cover-Filler                |
| 2           | 135-4070           | 6           | Gasket-Nozzle       | 35          | 134-1402           | 1           | Cylinder Head Cover ASM     |
| 3           | 135-4071           | 6           | Cap-Valve           | 36          | 135-4085           | 1           | Plate-Baffle                |
| 4           | 134-4001           | 1           | Cylinder Head ASM   | 37          | 135-4086           | 1           | Baffle-Breather             |
| 11          | 135-4073           | 2           | Plug-Cup            | 38          | 135-4086           | 2           | Baffle-Breather             |
| 12          | 133-6797           | 1           | Plug                | 39          | 135-4088           | 1           | Diaphragm ASM               |
| 13          | 135-4074           | 3           | Valve-Suction       | 40          | 135-4089           | 1           | Plate-Diaphragm             |
| 14          | 135-4075           | 3           | Valve-Exhaust       | 41          | 135-4090           | 1           | Cover-Diaphragm             |
| 15          | 135-4076           | 6           | Spring-Valve        | 42          | 135-4091           | 1           | Diaphragm                   |
| 16          | 125-7054           | 6           | Retainer            | 43          | 135-4092           | 1           | Spring-Diaphragm            |
| 17          | 125-6914           | 12          | Cotter              | 45          | 135-4093           | 1           | Gasket-Cover, Cylinder Head |
| 18          | 125-6915           | 3           | Seal-Stem, Valve    | 46          | 134-1401           | 1           | Cover-Head, Cylinder        |
| 19          | 125-6916           | 3           | Seal-Stem, Valve    | 47          | 135-4095           | 1           | Gasket                      |
| 20          | 125-7184           | 2           | Pin-Spring          | 48          | 125-7186           | 4           | Screw                       |
| 21          | 135-4077           | 1           | Rocker Support ASM  | 49          | 125-7186           | 4           | Screw                       |
| 22          | 135-4078           | 1           | Rocker Shaft ASM    | 50          | 127-3168           | 2           | Screw                       |
| 25          | 135-4079           | 3           | Support-Arm, Rocker | 51          | 125-7197           | 1           | O-Ring                      |
| 26          | 135-4080           | 2           | Spring-Rocker       | 52          | 125-7209           | 3           | Bolt                        |
| 27          | 135-4081           | 6           | Rocker Arm ASM      | 53          | 135-4096           | 6           | Bolt                        |
| 28          | 125-7013           | 6           | Screw-Adjust, Valve | 54          | 135-4291           | 3           | Plug-Glow                   |
| 30          | 125-7014           | 6           | Nut                 | 55          | 134-1443           | 1           | Connector-Plug, Glow        |
| 31          | 135-7082           | 2           | Ring                | 56          | 125-6917           | 6           | Guide                       |
| 32          | 135-4083           | 1           | Screw               |             |                    |             |                             |
| 33          | 125-7218           | 3           | Bolt                |             |                    |             |                             |

# Exhaust Manifold Assembly

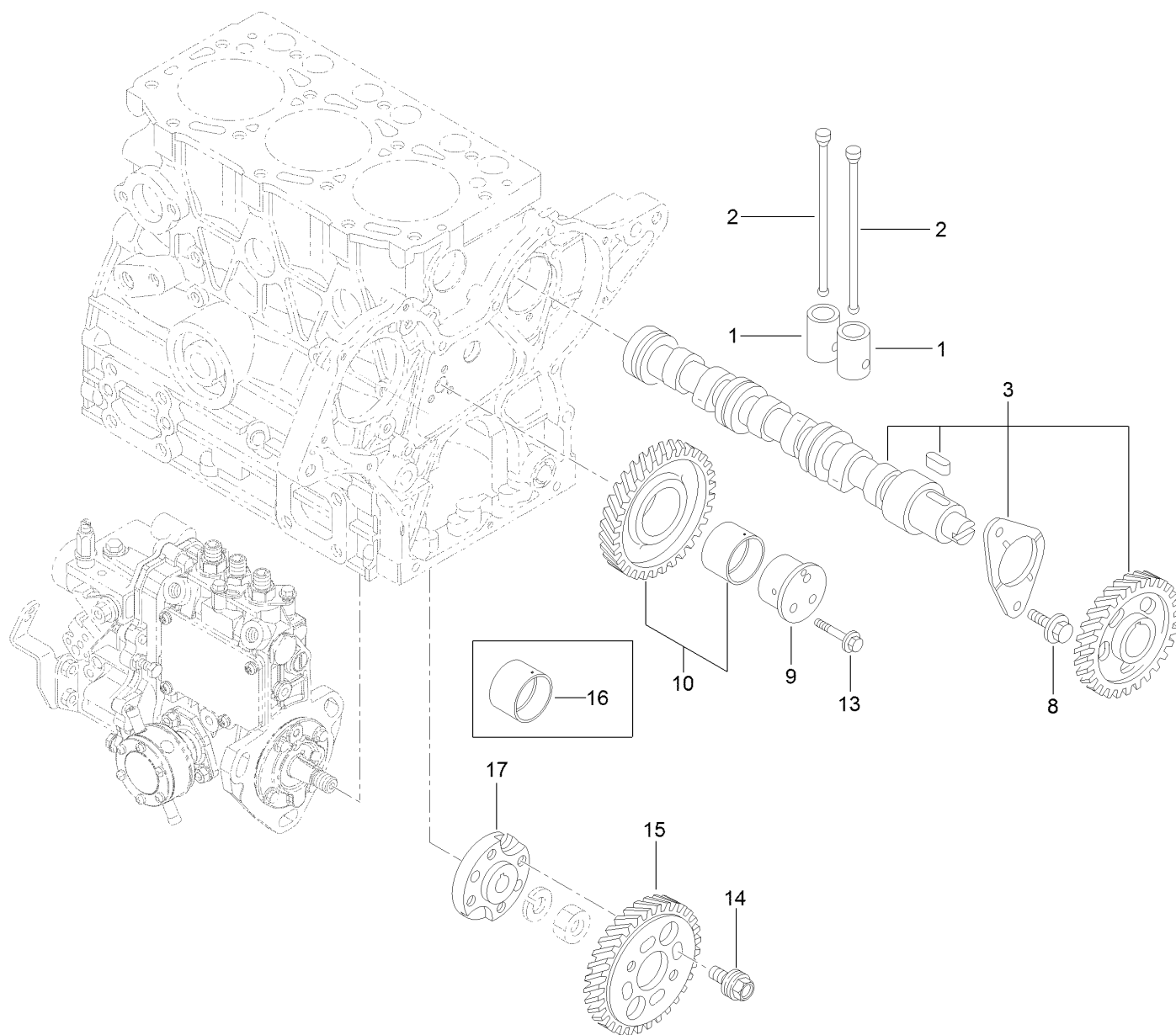


## Exhaust Manifold Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>       |
|-------------|--------------------|-------------|--------------------------|
| 1           | 140-7161           | 1           | Manifold-Exhaust         |
| 2           | 135-4107           | 1           | Gasket-Manifold, Exhaust |
| 3           | 134-1404           | 2           | Bolt-Stud                |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 4           | 133-6714           | 4           | Bolt               |
| 5           | 125-6906           | 4           | Stud               |
| 6           | 125-7229           | 2           | Nut                |

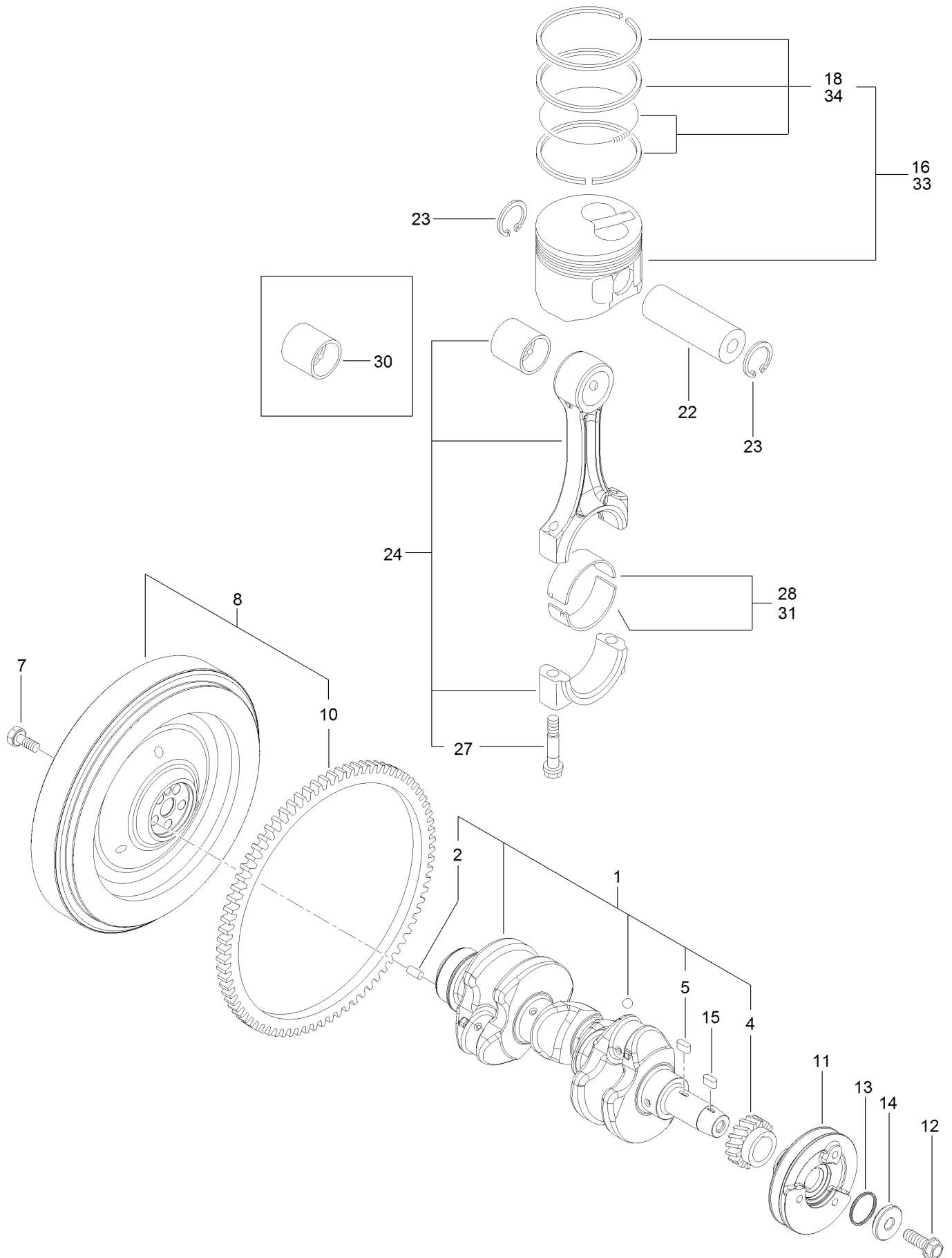
# Camshaft and Driving Gear Assembly



## Camshaft and Driving Gear 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           | 135-4108           | 6           | Tappet             | 13          | 135-4147           | 3           | Bolt               |
| 2           | 135-4109           | 6           | Push-Rod           | 14          | 125-7020           | 4           | Bolt               |
| 3           | 135-4110           | 1           | Camshaft ASM       | 15          | 135-4148           | 1           | Gear-Pump          |
| 8           | 125-7206           | 2           | Bolt               | 16          | 135-4149           | 1           | Bushing-Gear, Idle |
| 9           | 135-4145           | 1           | Shaft-Idle         | 17          | 135-4150           | 1           | Flange             |
| 10          | 135-4146           | 1           | Idle Gear ASM      |             |                    |             |                    |

# Crankshaft and Piston Assembly

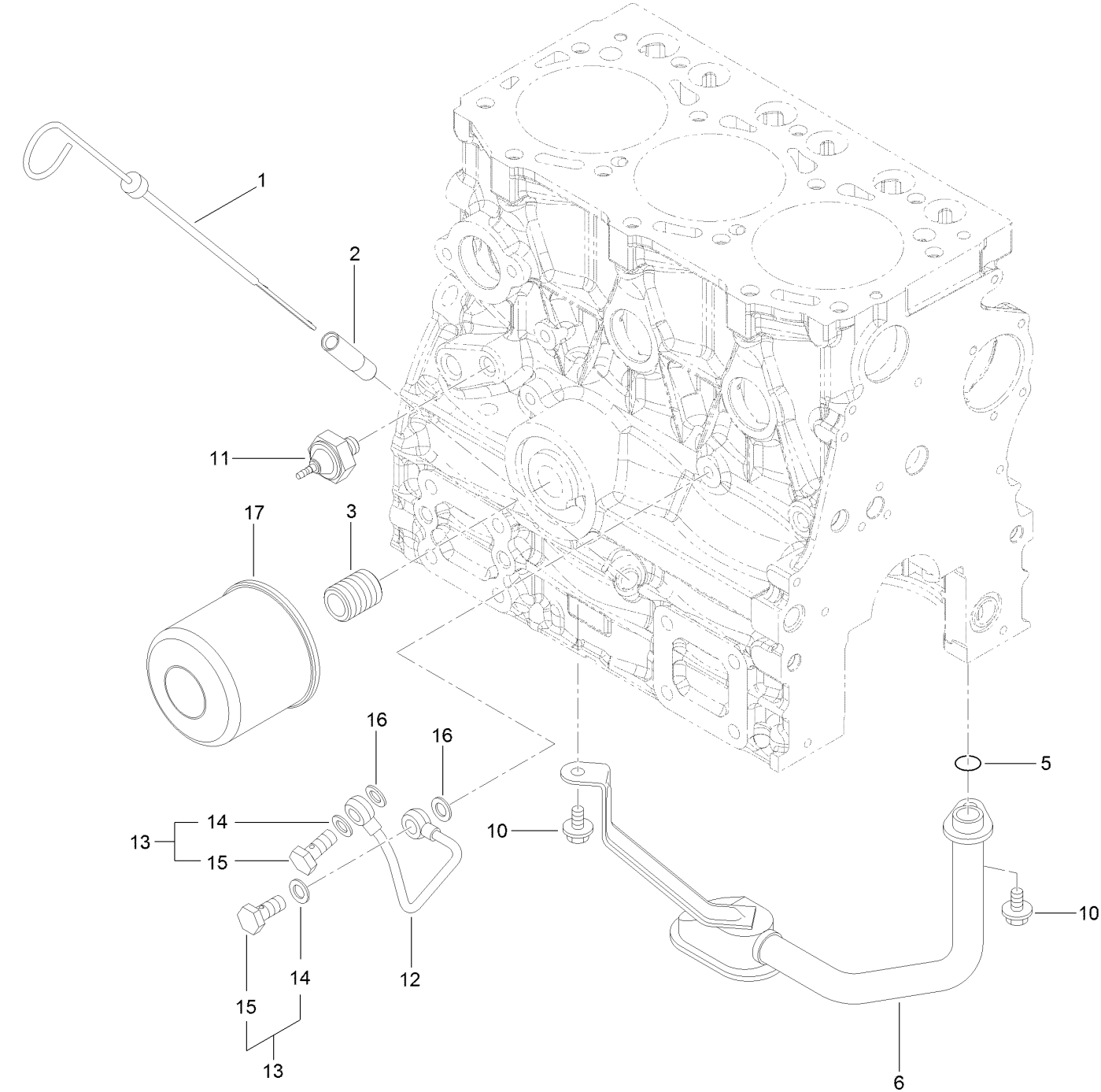


## Crankshaft and Piston Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>   |
|-------------|--------------------|-------------|----------------------|
| 1           | 135-4152           | 1           | Crankshaft ASM       |
| 2           | 125-6995           | 1           | Pin                  |
| 4           | 135-4153           | 1           | Gear-Crankshaft      |
| 5           | 135-4154           | 1           | Key                  |
| 7           | 125-6951           | 5           | Bolt                 |
| 8           | 140-7164           | 1           | Flywheel ASM         |
| 10          | 125-6943           | 1           | Gear                 |
| 11          | 135-4158           | 1           | V-Pulley, Crankshaft |
| 12          | 135-4159           | 1           | Bolt-Flange          |
| 13          | 134-4004           | 1           | Packing-Washer       |
| 14          | 135-4161           | 1           | Washer               |
| 15          | 135-4154           | 1           | Key                  |

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>   |
|-------------|--------------------|-------------|----------------------|
| 16          | 135-4163           | 3           | Piston ASM           |
| 18          | 135-4164           | 3           | Ring ASM             |
| 22          | 135-4165           | 3           | Pin-Piston           |
| 23          | 135-4166           | 6           | Ring                 |
| 24          | 134-4005           | 3           | Connecting Rod ASM   |
| 27          | 135-4168           | 6           | Bolt-Rod, Connecting |
| 28          | 135-4169           | 3           | Bearing-Pin, Crank   |
| 30          | 134-4006           | 3           | Bushing-Pin, Piston  |
| 31          | 135-4171           | 3           | Bearing-Pin (0.25)   |
| 33          | 134-4007           | 3           | Piston ASM (0.25 Os) |
| 34          | 135-4173           | 3           | Ring ASM             |

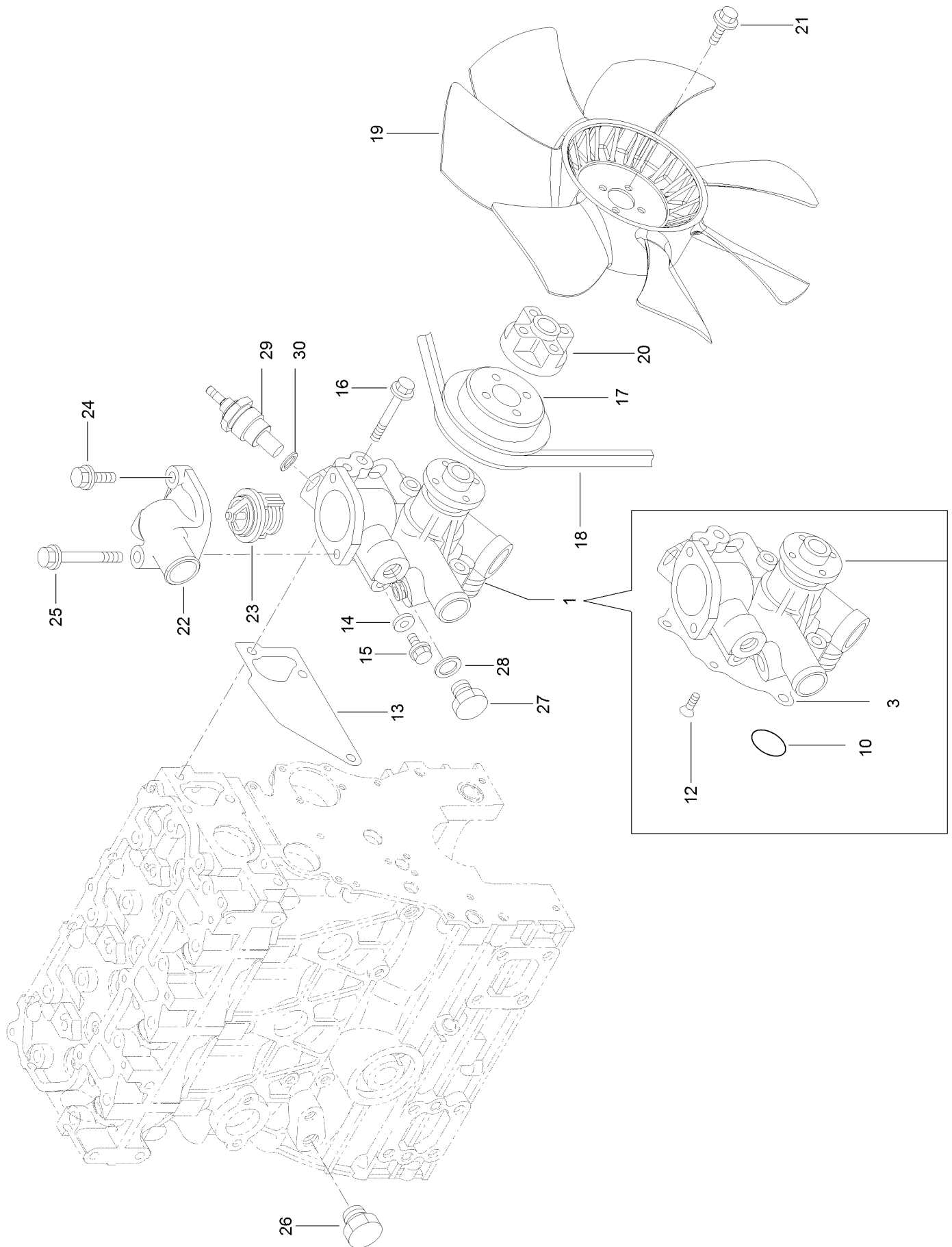
# Lubrication and Oil System Assembly



## Lubrication and Oil 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           | 134-1413           | 1           | Dipstick           | 12          | 135-4182           | 1           | Pipe-Oil           |
| 2           | 125-6954           | 1           | Guide-Dipstick     | 13          | 125-6988           | 2           | Joint Bolt ASM     |
| 3           | 134-4008           | 1           | Stud               | 14          | 125-7174           | 2           | Washer-Seal        |
| 5           | 135-4178           | 1           | O-Ring             | 15          | 125-7194           | 2           | Bolt-Joint         |
| 6           | 134-1414           | 1           | Oil Inlet Pipe ASM | 16          | 125-7174           | 2           | Washer-Seal        |
| 10          | 125-7205           | 2           | Bolt               | 17          | 135-4181           | 1           | Filter-Oil, Engine |
| 11          | 134-1377           | 1           | Switch-Hydraulic   |             |                    |             |                    |

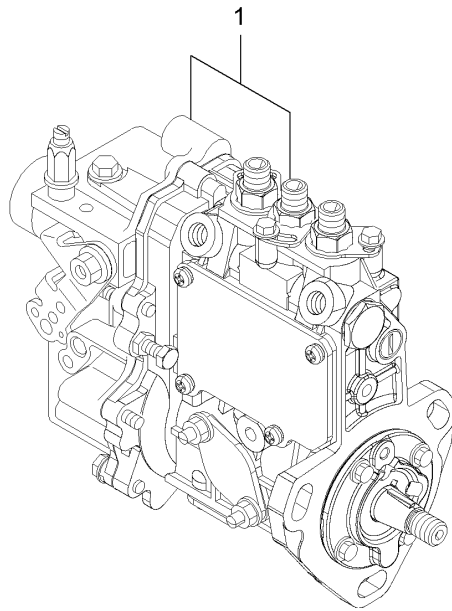
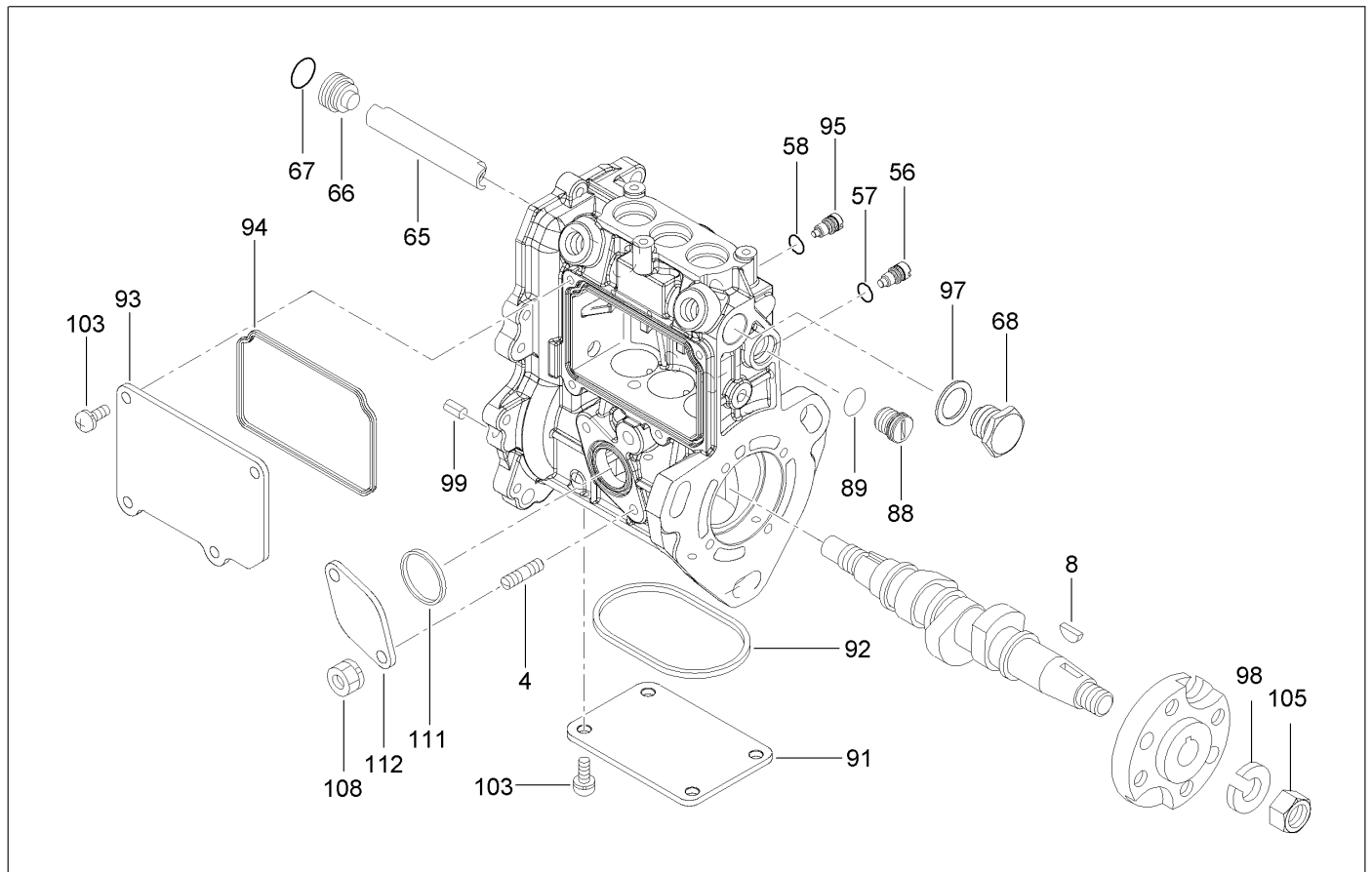
# Cooling Water System Assembly



## Cooling Water 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           | 134-4009           | 1           | CW Pump ASM        | 21          | 131-2739           | 4           | Bolt                                |
| 3           | 135-4188           | 1           | Gasket             | 22          | 135-4199           | 1           | Cover-Thermostat                    |
| 10          | 135-4190           | 1           | O-Ring             | 23          | 135-4200           | 1           | Thermostat                          |
| 12          | 133-2504           | 4           | Screw              | 24          | 135-4201           | 1           | Bolt                                |
| 13          | 135-4193           | 1           | Gasket-Pump, Water | 25          | 135-4202           | 1           | Bolt                                |
| 14          | 125-7192           | 1           | Gasket             | 26          | 125-7171           | 1           | Plug-Drain                          |
| 15          | 125-7212           | 1           | Bolt               | 27          | 125-6953           | 1           | Plug                                |
| 16          | 125-7220           | 3           | Bolt               | 28          | 125-6979           | 1           | Gasket                              |
| 17          | 134-1417           | 1           | V-Pulley           | 29          | 134-3128           | 1           | Sensor-Temperature (X1<br>Terminal) |
| 18          | 140-7179           | 1           | V-Belt             | 30          | 134-4010           | 1           | Gasket                              |
| 19          | 140-7157           | 1           | Fan-Cooling        |             |                    |             |                                     |
| 20          | 131-2705           | 1           | Spacer             |             |                    |             |                                     |

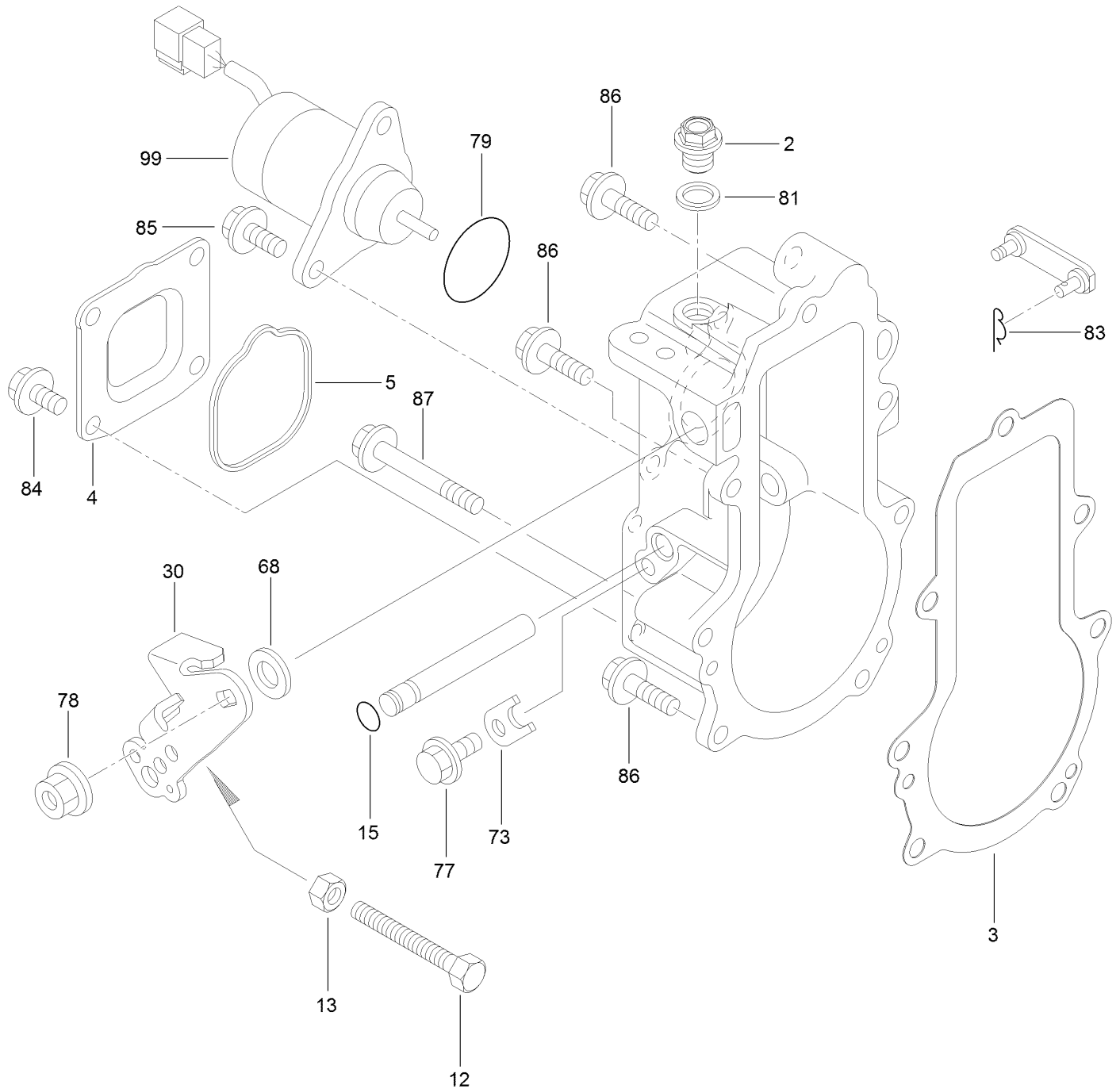
# Fuel Injection Pump Assembly



## Fuel Injection 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           | 140-7183           | 1           | Fuel Injection Equipment ASM | 91          | 135-4215           | 1           | Cover              |
| 4           | 135-4205           | 2           | Bolt-Stud                    | 92          | 135-4216           | 1           | Gasket             |
| 8           | 135-4206           | 1           | Key-Feather, Woodruff        | 93          | 135-4217           | 1           | Cover              |
| 56          | 125-7156           | 3           | Stopper                      | 94          | 135-4218           | 1           | Gasket             |
| 57          | 135-4207           | 3           | O-Ring                       | 95          | 135-4219           | 1           | Stopper-Rack       |
| 58          | 135-4207           | 1           | O-Ring                       | 97          | 136-8236           | 1           | Washer-Seal        |
| 65          | 135-4209           | 1           | Deflector                    | 98          | 135-4220           | 1           | Washer-Spring      |
| 66          | 135-4210           | 1           | Plug-Deflector               | 99          | 125-7183           | 2           | Pin-Spring         |
| 67          | 135-4211           | 1           | O-Ring                       | 103         | 135-4221           | 8           | Screw              |
| 68          | 135-4212           | 1           | Plug-Deflector               | 105         | 133-2506           | 1           | Nut                |
| 88          | 135-4213           | 1           | Plug-Rack                    | 108         | 135-4222           | 2           | Nut                |
| 89          | 135-4214           | 1           | O-Ring                       | 111         | 135-4223           | 1           | Gasket             |
|             |                    |             |                              | 112         | 135-4224           | 1           | Cover-Pump         |

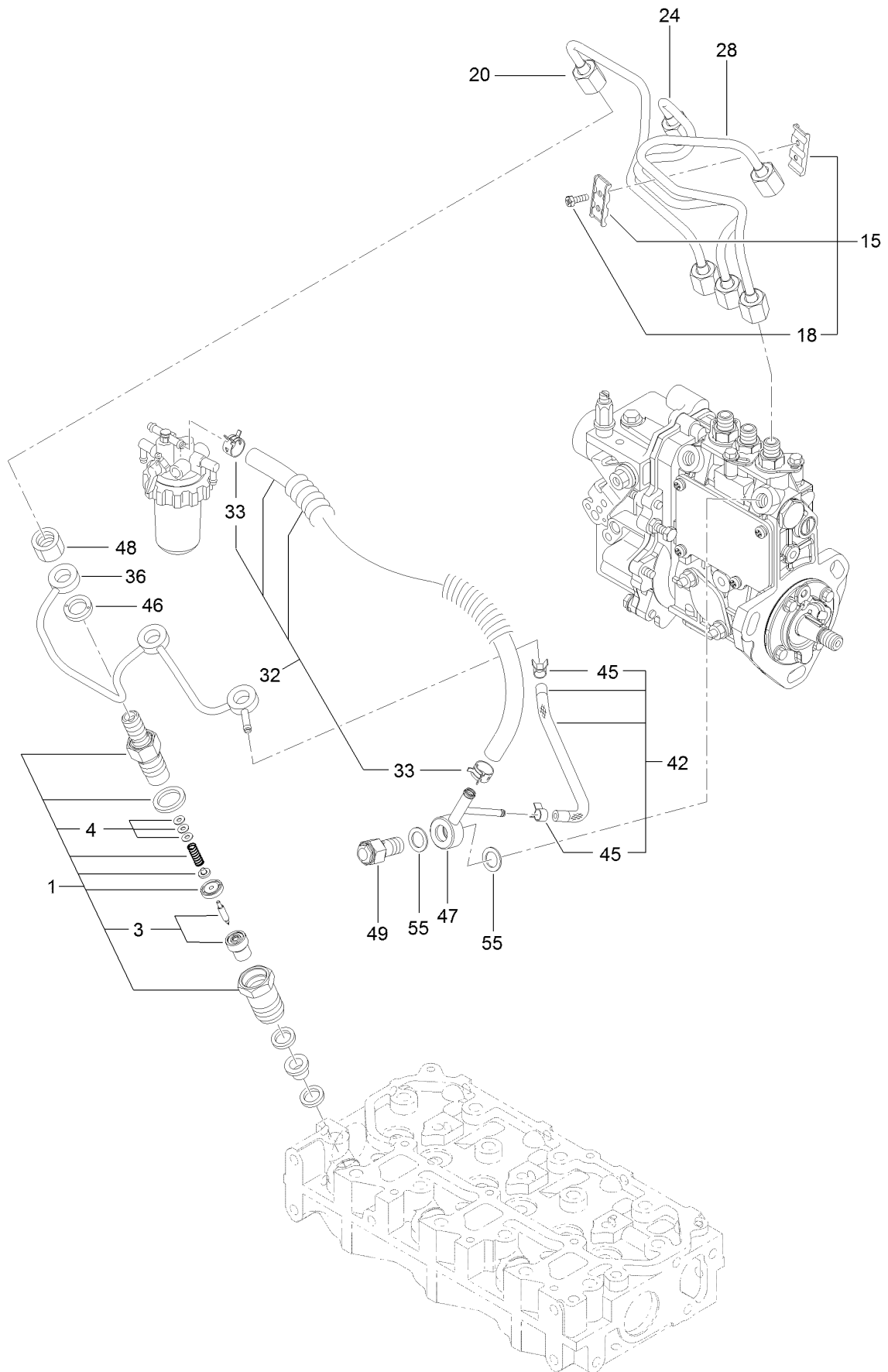
# Governor Assembly



## Governor 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> |
|-------------|--------------------|-------------|----------------------|-------------|--------------------|-------------|--------------------|
| 2           | 135-4226           | 1           | Plug                 | 77          | 125-7205           | 1           | Bolt               |
| 3           | 135-4227           | 1           | Gasket               | 78          | 134-4012           | 1           | Nut-M8             |
| 4           | 140-7159           | 1           | Cover-Case, Governor | 79          | 134-1520           | 1           | O-Ring             |
| 5           | 134-1435           | 1           | Gasket               | 81          | 125-7175           | 1           | Washer-Seal        |
| 12          | 134-4013           | 1           | Bolt-Limit, Idle     | 83          | 134-1529           | 1           | Pin                |
| 13          | 134-4014           | 1           | Nut                  | 84          | 125-7205           | 4           | Bolt               |
| 15          | 135-4207           | 1           | O-Ring               | 85          | 125-7207           | 2           | Bolt               |
| 30          | 134-1385           | 1           | Lever-Control        | 86          | 125-7209           | 4           | Bolt               |
| 68          | 134-1518           | 1           | Shim Set             | 87          | 136-8256           | 3           | Bolt               |
| 73          | 134-1395           | 1           | Stopper-Shaft        | 99          | 140-7172           | 1           | Stop-Solenoid      |

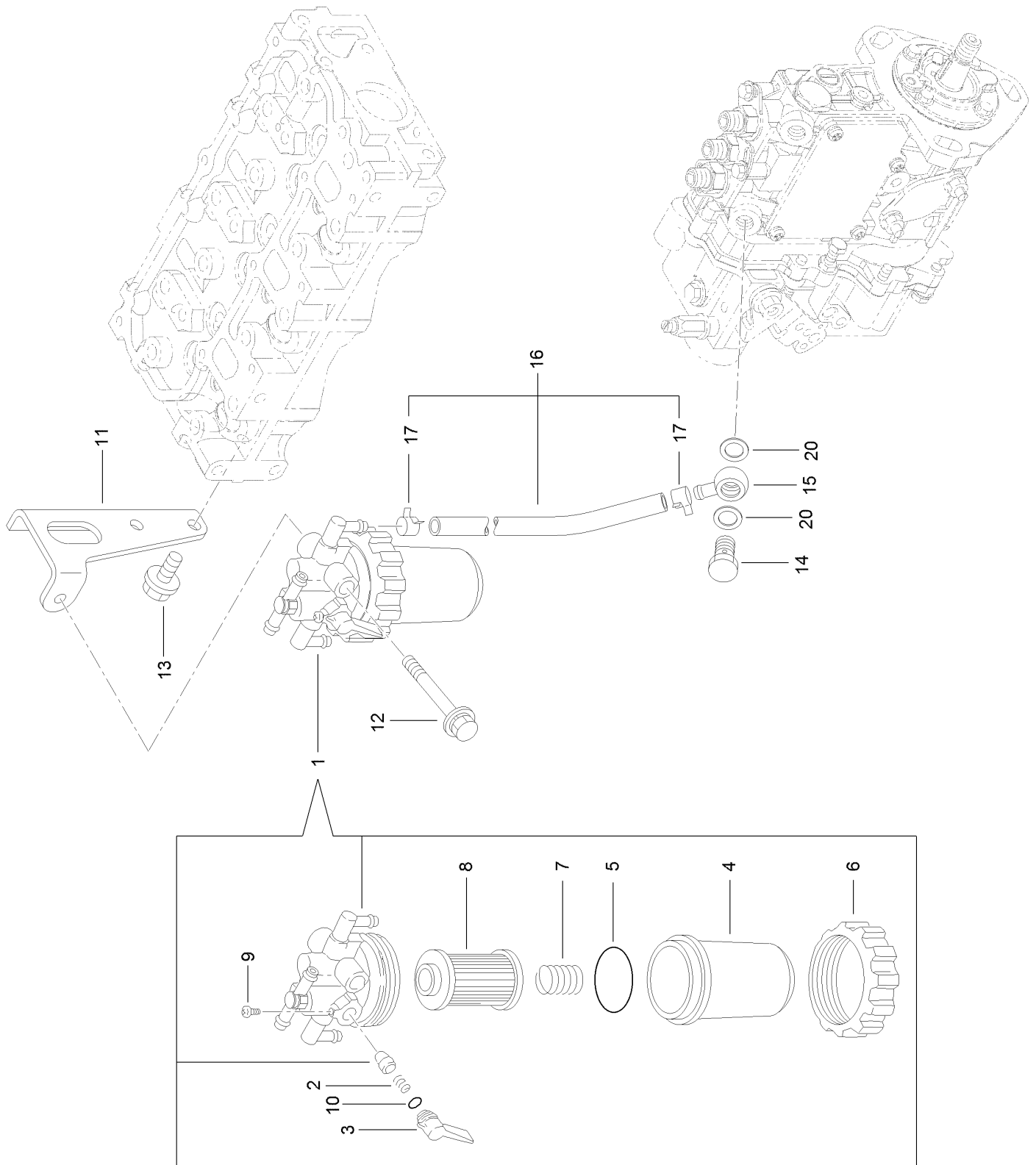
# Fuel Injection Valve Assembly



## Fuel Injection 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           | 135-4229           | 3           | Nozzle ASM         | 33          | 140-7167           | 2           | Clamp-Hose (11.5)  |
| 3           | 135-4230           | 3           | Nozzle ASM         | 36          | 134-1431           | 1           | Return Pipe ASM    |
| 4           | 135-4231           | 3           | Adjusting Shim Set | 42          | 140-7155           | 1           | Fuel Pipe ASM      |
| 15          | 134-1488           | 1           | Retainer-Pipe      | 45          | 125-6970           | 2           | Clip               |
| 18          | 125-7027           | 2           | Bolt               | 46          | 135-4237           | 3           | Gasket             |
| 20          | 135-4233           | 1           | Pipe ASM (Inj No1) | 47          | 135-4239           | 1           | Joint-Over Flow    |
| 24          | 135-4234           | 1           | Pipe ASM (Inj No2) | 48          | 135-4240           | 3           | Nut-Nozzle         |
| 28          | 135-4235           | 1           | Pipe ASM (Inj No3) | 49          | 135-4241           | 1           | Check Valve ASM    |
| 32          | 140-7154           | 1           | Fuel Pipe ASM      | 55          | 125-7176           | 2           | Washer-Seal        |

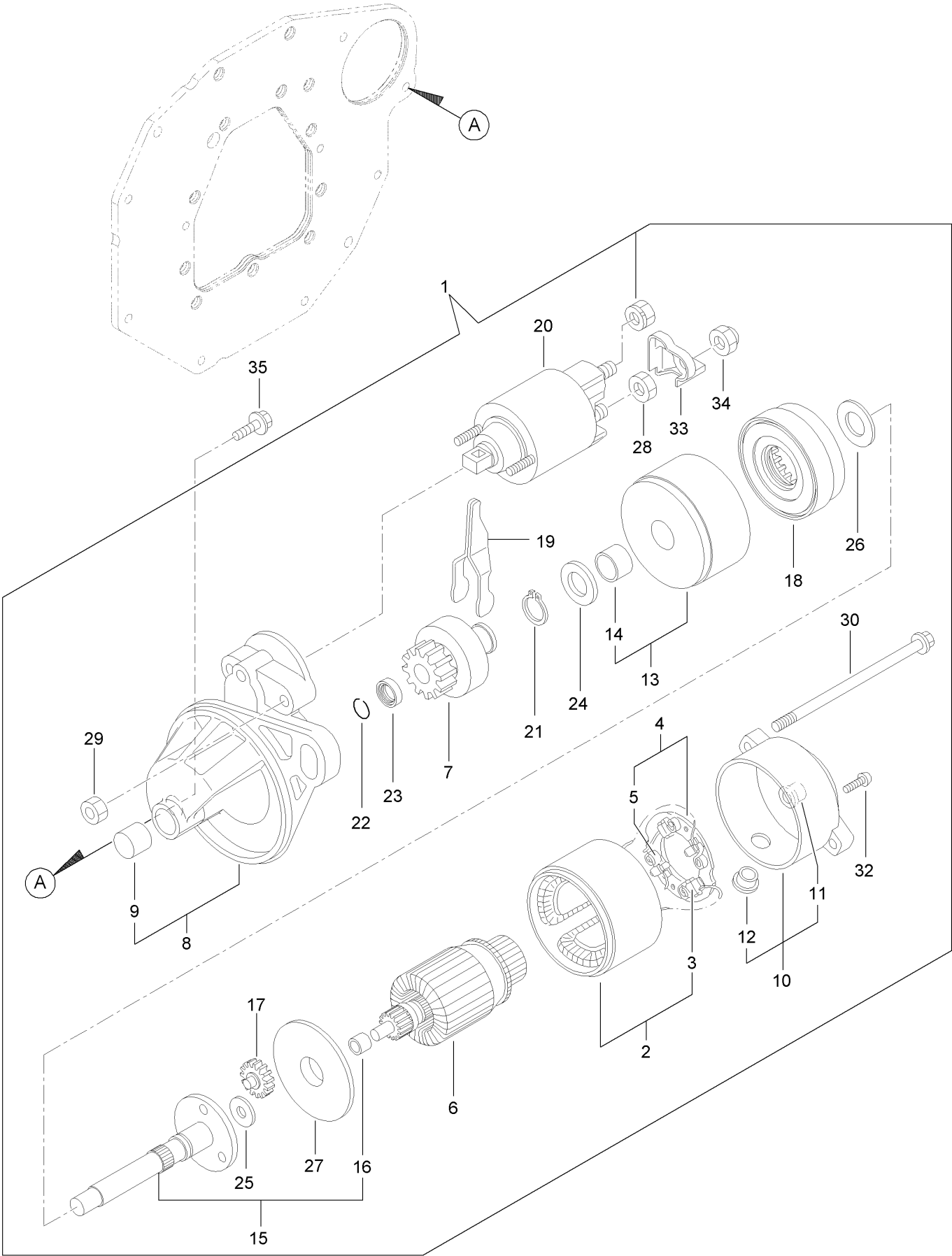
# Fuel Pipe Assembly



## Fuel Pipe 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           | 139-6234           | 1           | Fuel Filter ASM      | 10          | 134-1535           | 1           | O-Ring             |
| 2           | 134-1373           | 1           | Spring-Valve, Fuel   | 11          | 140-7158           | 1           | Bracket, Filter    |
| 3           | 134-1454           | 1           | Lever-Fuel           | 12          | 140-7180           | 1           | Bolt               |
| 4           | 134-1459           | 1           | Cup-Strainer, Fuel   | 13          | 125-7214           | 2           | Bolt               |
| 5           | 134-1371           | 1           | O-Ring               | 14          | 135-4242           | 1           | Bolt-Joint, Pipe   |
| 6           | 134-1376           | 1           | Ring-Retaining, Cup  | 15          | 135-4243           | 1           | Joint-Pipe         |
| 7           | 134-1458           | 1           | Spring-Element       | 16          | 140-7153           | 1           | Fuel Pipe ASM      |
| 8           | 134-3085           | 1           | Element-Filter, Fuel | 17          | 140-7167           | 2           | Clamp-Hose (11.5)  |
| 9           | 134-1375           | 1           | Screw-Pan            | 20          | 125-7176           | 2           | Washer-Seal        |

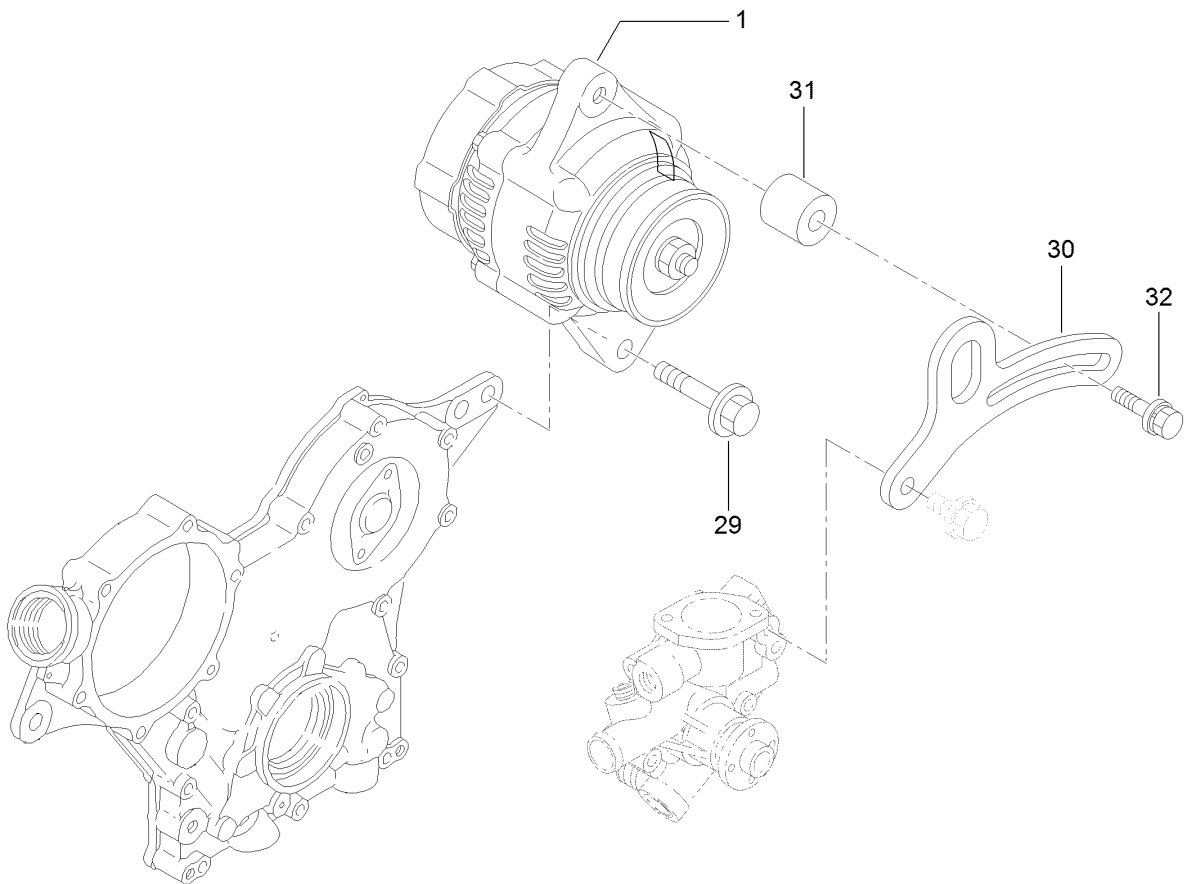
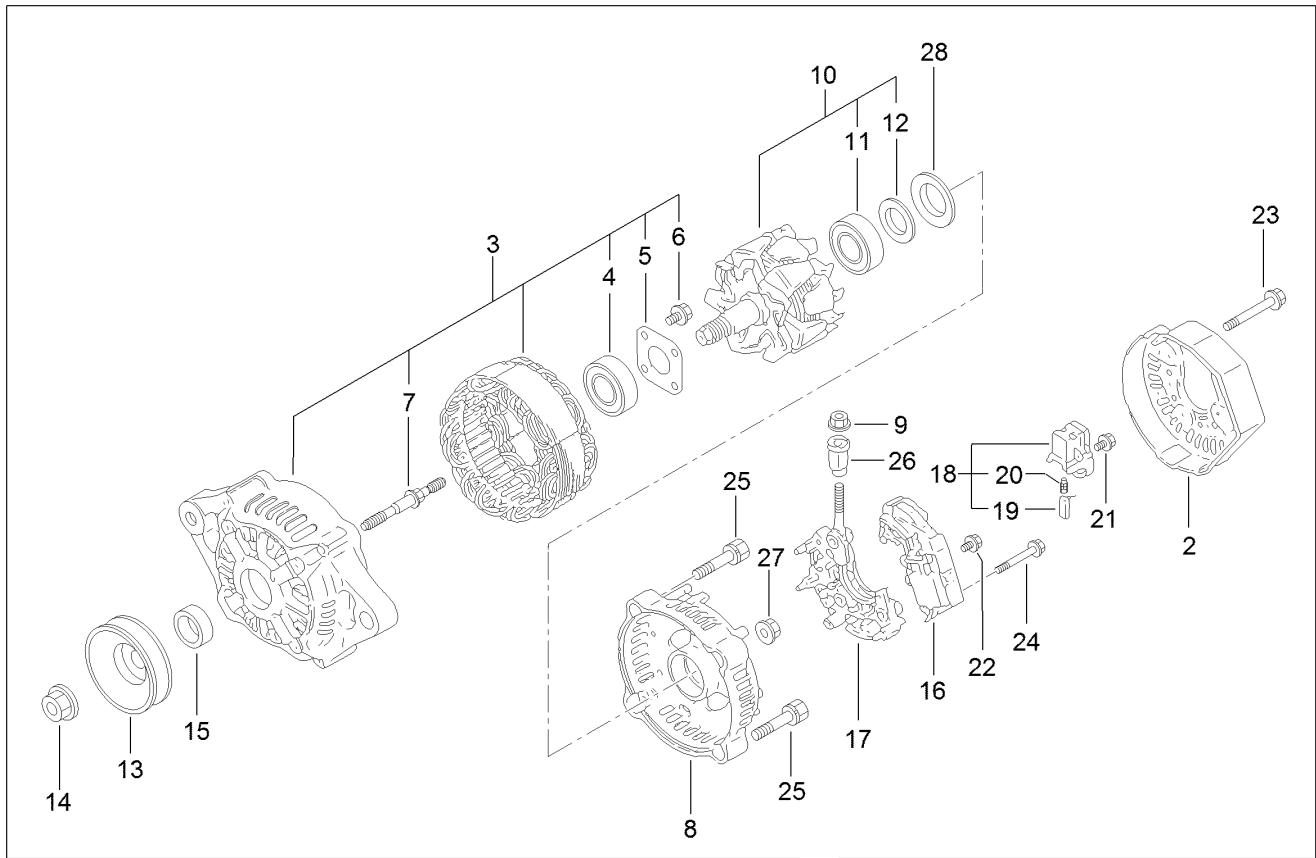
# Starter Motor Assembly



## Starter Motor 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           | 135-4244           | 1           | Starter ASM        | 18          | 135-4261           | 1           | Gear               |
| 2           | 135-4245           | 1           | Yoke ASM           | 19          | 135-4262           | 1           | Lever              |
| 3           | 135-4246           | 2           | Starter Kit        | 20          | 135-4263           | 1           | Switch ASM         |
| 4           | 135-4247           | 1           | Holder ASM         | 21          | 135-4264           | 1           | Ring               |
| 5           | 135-4248           | 4           | Spring             | 22          | 135-4265           | 1           | Ring               |
| 6           | 135-4249           | 1           | Armature ASM       | 23          | 135-4266           | 1           | Nut                |
| 7           | 135-4250           | 1           | Clutch ASM         | 24          | 135-4267           | 1           | Washer             |
| 8           | 135-4251           | 1           | Housing ASM        | 25          | 135-4268           | 1           | Washer             |
| 9           | 135-4252           | 1           | Bearing-Needle     | 26          | 135-4269           | 1           | Washer             |
| 10          | 135-4253           | 1           | Frame ASM          | 27          | 135-4270           | 1           | Plate              |
| 11          | 135-4254           | 1           | Bearing            | 28          | 135-4271           | 1           | Nut                |
| 12          | 135-4255           | 1           | Cover              | 29          | 135-4272           | 2           | Nut                |
| 13          | 135-4256           | 1           | Bearing ASM        | 30          | 135-4273           | 2           | Bolt-Through       |
| 14          | 135-4257           | 1           | Bearing            | 32          | 135-4274           | 2           | Screw              |
| 15          | 135-4258           | 1           | Shaft ASM          | 33          | 135-4275           | 1           | Cover-Terminal     |
| 16          | 135-4259           | 1           | Bearing            | 34          | 135-4276           | 1           | Nut                |
| 17          | 135-4260           | 3           | Gear               | 35          | 133-2496           | 2           | Bolt               |

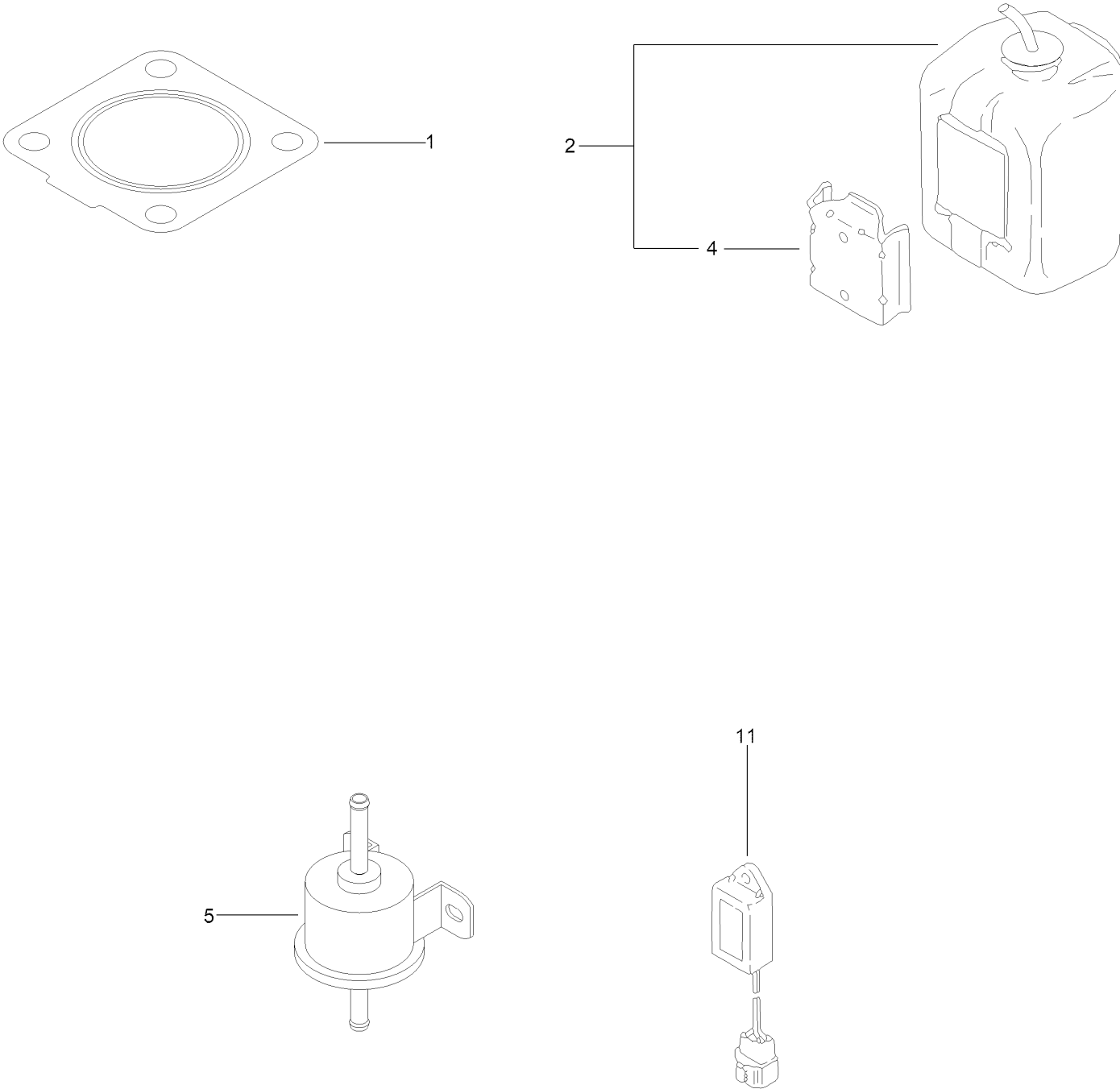
# Generator Assembly



## Generator 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           | 140-7162           | 1           | Alternator (12V-40A) | 17          | 127-2963           | 1           | Holder             |
| 2           | 127-2999           | 1           | Cover                | 18          | 127-2993           | 1           | Holder             |
| 3           | 135-4025           | 1           | Frame ASM            | 19          | 127-2956           | 2           | Brush ASM          |
| 4           | 127-2958           | 1           | Bearing-Ball         | 20          | 127-2964           | 2           | Spring             |
| 5           | 127-2959           | 1           | Plate-Retainer       | 21          | 127-2965           | 6           | Screw              |
| 6           | 127-2960           | 4           | Screw                | 22          | 127-2966           | 1           | Screw              |
| 7           | 127-2961           | 2           | Stud                 | 23          | 127-2967           | 3           | Bolt               |
| 8           | 140-7163           | 1           | Rear Frame ASM       | 24          | 127-2968           | 2           | Screw              |
| 9           | 127-3190           | 1           | Nut                  | 25          | 127-2969           | 2           | Bolt               |
| 10          | 127-2951           | 1           | Rotor ASM            | 26          | 127-2970           | 1           | Bushing-Insulation |
| 11          | 127-2983           | 1           | Bearing-Ball         | 27          | 127-2971           | 2           | Nut                |
| 12          | 127-2962           | 1           | Cover                | 28          | 127-2972           | 1           | Washer             |
| 13          | 127-2954           | 1           | Pulley               | 29          | 135-4277           | 1           | Bolt               |
| 14          | 127-2955           | 1           | Nut                  | 30          | 140-7151           | 1           | Adjuster-Belt      |
| 15          | 127-2957           | 1           | Collar               | 31          | 140-7166           | 1           | Spacer-Adjuster    |
| 16          | 134-4018           | 1           | Regulator ASM        | 32          | 125-7134           | 1           | Bolt               |

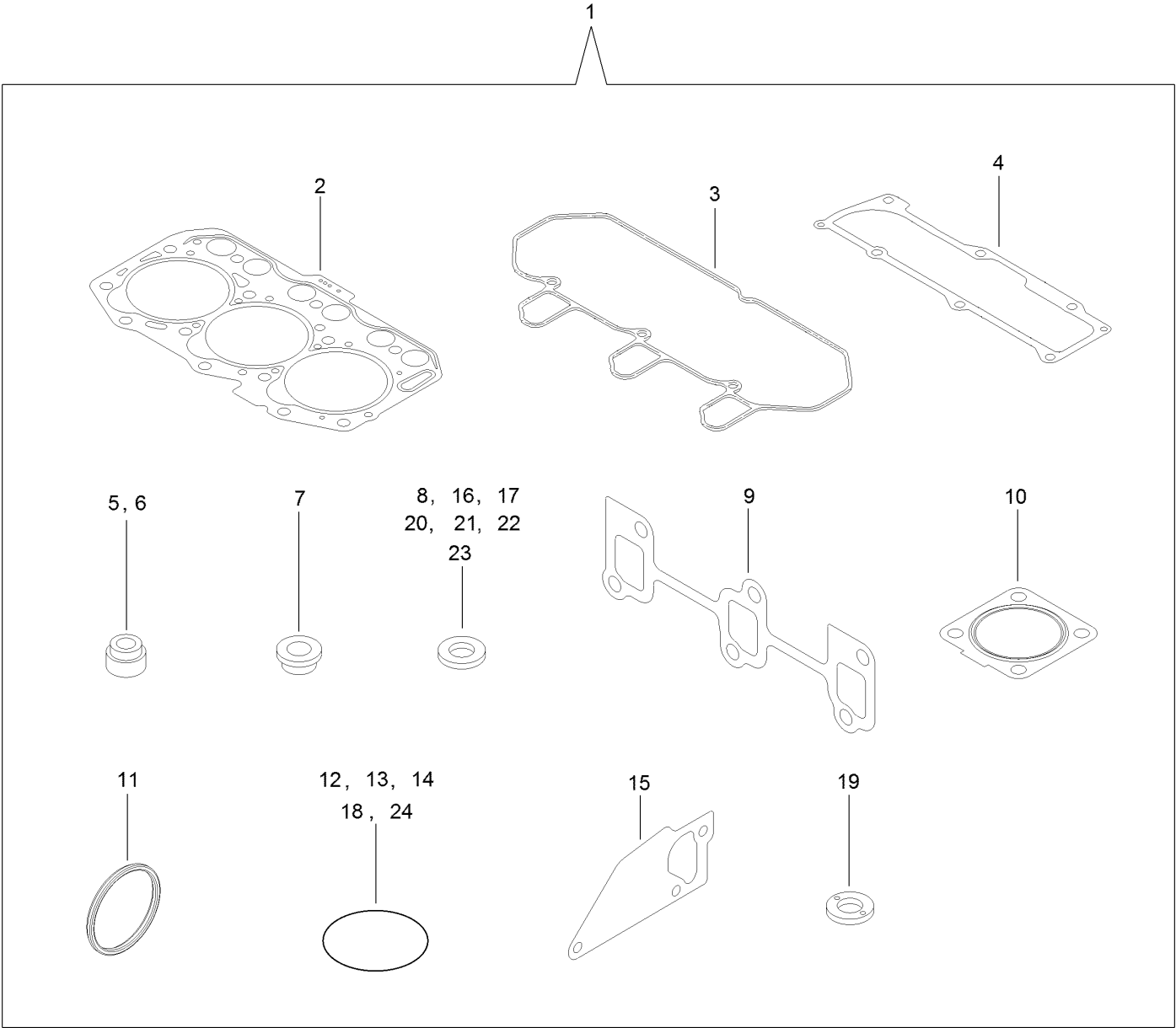
Accessory Assembly



## Accessory 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           | 134-1383           | 1           | Gasket-Silencer    | 5           | 121-5613           | 1           | Pump-Fuel, Electric |
| 2           | 140-7185           | 1           | Tank ASM           | 11          | 134-1507           | 1           | Timer               |
| 4           | 140-7165           | 1           | Bracket-Tank       |             |                    |             |                     |

# Gasket Set



## Gasket Set (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           | 140-7184           | 1           | Gasket Set                     | 13          | 135-4058           | 2           | O-Ring             |
| 2           | 135-4038           | 1           | Head Gasket Set                | 14          | 135-4178           | 1           | O-Ring             |
| 3           | 135-4093           | 1           | Gasket-Cover, Cylinder<br>Head | 15          | 135-4193           | 1           | Gasket-Pump, Water |
| 4           | 135-4095           | 1           | Gasket                         | 16          | 125-6979           | 1           | Gasket             |
| 5           | 125-6915           | 3           | Seal-Stem, Valve               | 17          | 134-4010           | 1           | Gasket             |
| 6           | 125-6916           | 3           | Seal-Stem, Valve               | 18          | 125-6957           | 1           | O-Ring             |
| 7           | 135-4069           | 3           | Protector-Nozzle               | 19          | 135-4237           | 3           | Gasket             |
| 8           | 135-4070           | 6           | Gasket-Nozzle                  | 20          | 125-7174           | 4           | Washer-Seal        |
| 9           | 135-4107           | 1           | Gasket-Manifold, Exhaust       | 21          | 125-7176           | 4           | Washer-Seal        |
| 10          | 134-1383           | 1           | Gasket-Silencer                | 22          | 136-8236           | 1           | Washer-Seal        |
| 11          | 134-4004           | 1           | Packing-Washer                 | 23          | 125-7192           | 1           | Gasket             |
| 12          | 127-2973           | 1           | O-Ring                         | 24          | 125-7197           | 2           | O-Ring             |

# Attachments and Accessories

## For 31901A — Groundsmaster 3200 All-Wheel Drive Traction Unit

| Product Name                                                                              | Model/Part  |
|-------------------------------------------------------------------------------------------|-------------|
| Operator Cooling Fan .....                                                                | 03247       |
| Switch Panel-Universal Sunshade.....                                                      | 03248       |
| Slope Sensor Kit.....                                                                     | 31952       |
| CE Kit, Groundsmaster 3200 or 3300 Series Traction Unit.....                              | 31953       |
| CE Kit, Groundsmaster 3200 or 3300 Series 60in Side Discharge Rotary Mower.....           | 31957       |
| CE Kit, Groundsmaster 3200 or 3300 Series 72in Side Discharge Rotary Mower.....           | 31958       |
| CE Kit, Groundsmaster 3200 or 3300 Series 60in Rear Discharge Rotary Mower .....          | 31959       |
| CE Kit, Groundsmaster 3200 or 3300 Series 72in Rear Discharge Rotary Mower .....          | 31960       |
| Auxiliary HYD Kit .....                                                                   | 31966       |
| 60in SD Deck.....                                                                         | 31970       |
| 60in RD Deck.....                                                                         | 31971       |
| 72in SD Deck.....                                                                         | 31972       |
| 72in RD Deck.....                                                                         | 31973       |
| 60in RD Deck, T2 .....                                                                    | 31974       |
| 72in RD Deck, T2 .....                                                                    | 31975       |
| Recycler Kit 60in/152cm SD .....                                                          | 31976       |
| Recycler Kit, 60In/152cm RD .....                                                         | 31977       |
| Recycler Kit, 72In/183cm SD .....                                                         | 31978       |
| Recycler Kit, 72In/183cm RD .....                                                         | 31979       |
| Seat Assembly-Standard .....                                                              | 32301       |
| Seat Assembly-Mechanical Suspension .....                                                 | 32302       |
| Air Ride Seat Kit .....                                                                   | 32303       |
| Storage Box Kit.....                                                                      | 31983       |
| USB Charging Kit.....                                                                     | 31984       |
| White Universal Sunshade .....                                                            | 30669       |
| Recycler Kit 60in/152cm Rd T2.....                                                        | 31985       |
| Recycler Kit 72in/183cm Rd T2.....                                                        | 31986       |
| Cab-Winter, GM3000 Series .....                                                           | 31990       |
| Road Light Kit (North America) .....                                                      | 31991       |
| Road Light Kit (EU) .....                                                                 | 31992       |
| Universal Wireless Hourmeter Kit .....                                                    | 144-2436    |
| Accessory Control Kit .....                                                               | 31994       |
| Led Beacon Kit .....                                                                      | 31996       |
| Led Work-light Kit (GM3200/3300, Rops) .....                                              | 31997       |
| 15-Pound Cast Weight.....                                                                 | 112-7059-01 |
| 42 Pound Weight .....                                                                     | 114-4096    |
| Red Universal Sunshade .....                                                              | 30671       |
| Beacon Kit .....                                                                          | 138-2699    |
| Work Lights Kit, Groundsmaster and Reelmaster Traction Units with Universal Sunshade..... | 140-1554    |
| Storage Bag Kit.....                                                                      | 139-2020    |
| SMV Kit.....                                                                              | 139-2339    |
| Wrench-Caster Cap/Latch .....                                                             | 138-6367    |
| Air Filter .....                                                                          | 108-3811    |
| Element-Filter, Fuel .....                                                                | 134-3085    |
| Filter-Spin On, Fuel/Water .....                                                          | 110-9049    |
| Transmission Oil Filter .....                                                             | 86-3010     |

## Attachments and Accessories (continued)

|                                                                            |           |
|----------------------------------------------------------------------------|-----------|
| Filter-Oil, Engine.....                                                    | 135-4181  |
| Hydraulic Hose Kit .....                                                   | 31999     |
| Power Harness Kit.....                                                     | 140-1559  |
| Weight Kit .....                                                           | 144-0480  |
| Plate-Weight, 25 LBS .....                                                 | 144-0484  |
| Semi-Gloss Black Spray Paint.....                                          | 361-9     |
| Toro Red 12oz Aerosol Can.....                                             | 361-10    |
| Paint-Black Bottle .....                                                   | 112-0176  |
| Paint-Red Pen .....                                                        | 112-0177  |
| Paint-Red Bottle .....                                                     | 112-0178  |
| PX Hydraulic Fluid (5 Gal) .....                                           | 133-8086  |
| PX Hydraulic Fluid (55 Gal).....                                           | 133-8087  |
| Blade Kit, Std (24.5) 3pk .....                                            | 144-3911  |
| Blade Kit, Med Flow (20.5) 3pk .....                                       | 144-3912  |
| Blade Kit, High Flow (20.5) 3pk.....                                       | 144-3913  |
| Blade Kit, Atomic (20.5) 3pk .....                                         | 144-3914  |
| Blade Kit, Low Flow (24.5) 3pk .....                                       | 144-3915  |
| Blade Kit, Recycling (24.5) 3pk.....                                       | 144-3916  |
| Blade Kit, Low Flow (20.5) 3pk .....                                       | 144-3917  |
| Blade Kit, Recycling (20.5) 3pk.....                                       | 144-3918  |
| Blade Kit, 24.50 Low Flow 3pk.....                                         | 144-3962  |
| Blade Kit, 24.50 Recycler 3pk.....                                         | 144-3963  |
| Blade Kit, 20.50 Low Flow 3pk.....                                         | 144-3964  |
| Blade Kit, 20.50 Recycler 3pk.....                                         | 144-3965  |
| Blade Kit, 24.50 Atomic 3pk.....                                           | 144-3966  |
| Blade Kit, 20.50 Atomic 3pk.....                                           | 144-3967  |
| Hose Replacement Kit, Groundsmaster 3200 or 3300 Series Traction Unit..... | 144-3960  |
| Boss Plow, 5ft Straight Blade .....                                        | MSC23345  |
| Blade Crate (Snowplow), ATV Poly S .....                                   | STB13567B |
| Seat Cover (with Arm Rest) .....                                           | 117-0095  |



**Count on it.**