



**Count on it.**

# Parts Catalog

## Groundsmaster® 3505-D Rotary Mower

Model No. 30849—Serial No. 314000001 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.

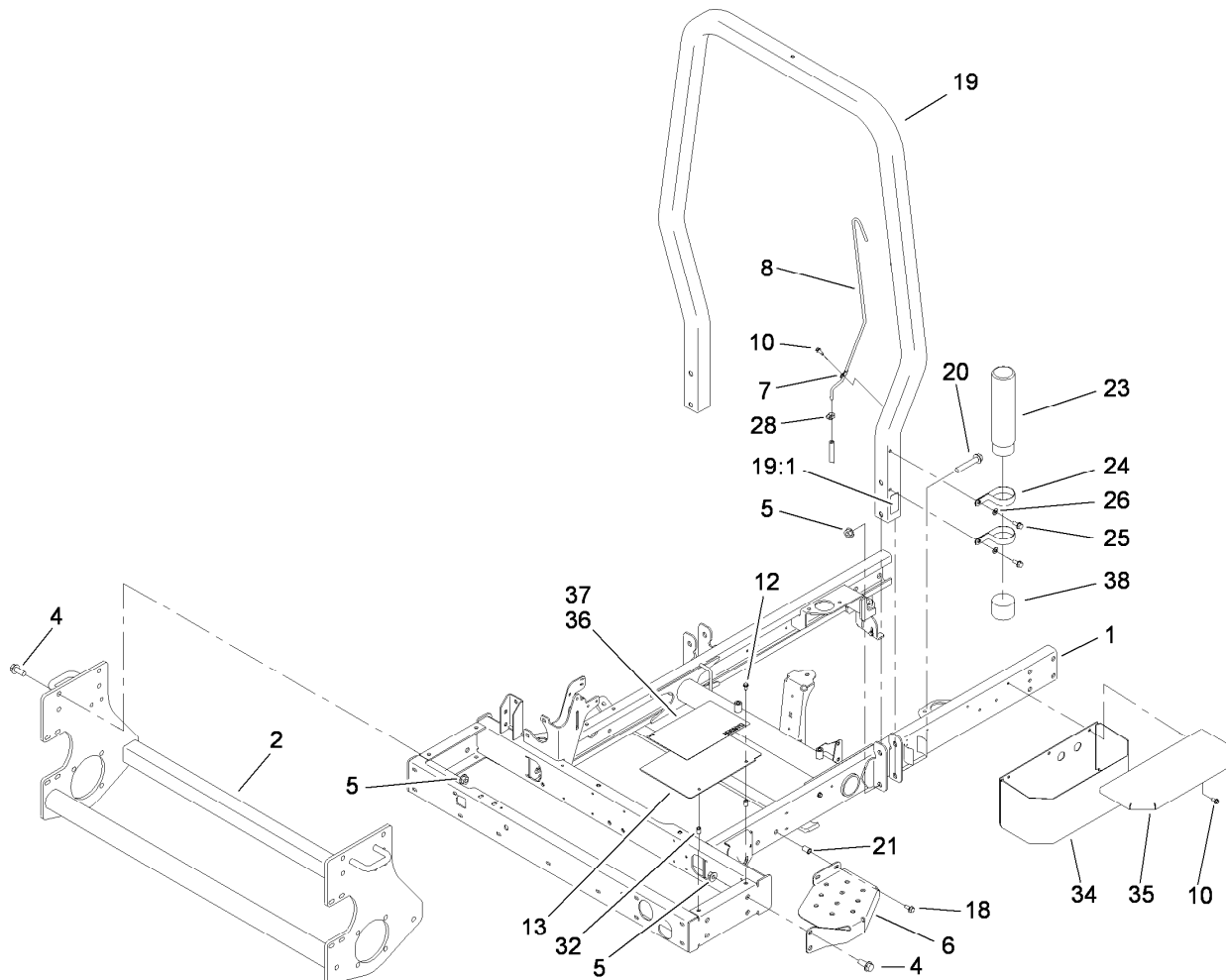
For example, in an illustration, the reference number 2X 37 means that two of the parts identified by reference number 37 are indicated.

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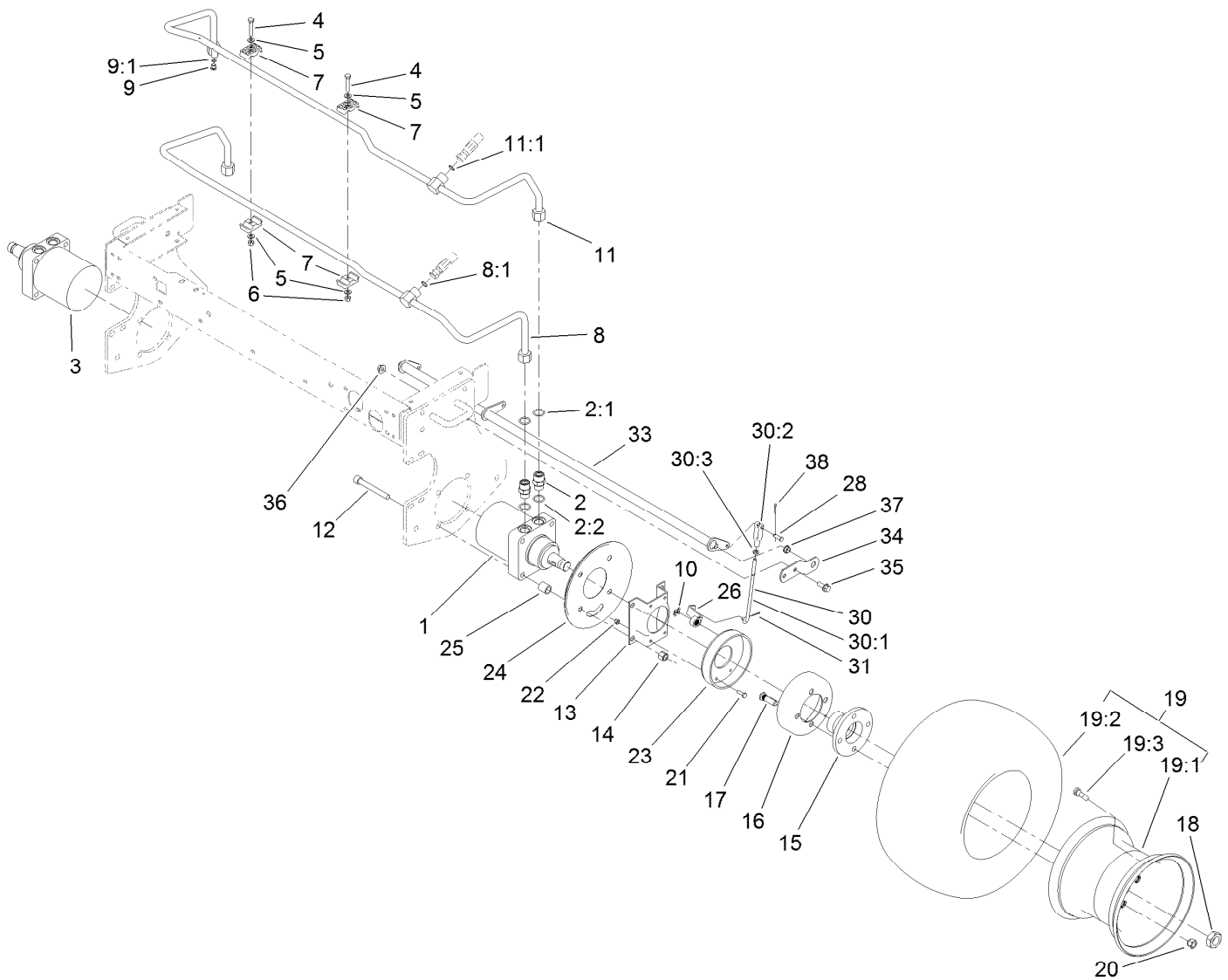
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## Frame Assembly

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 1    | 120-3549-03 | 1    | Frame                  |
| 2    | 95-8568-03  | 1    | Frame-Lower            |
| 4    | 3234-38     | 8    | Screw-HHF              |
| 5    | 32128-49    | 12   | Nut-HHF                |
| 6    | 99-3375-03  | 1    | Step                   |
| 7    | 2412-72     | 3    | Clip-Closed, Insulated |
| 8    | 95-8615     | 1    | Tube-Breather          |
| 10   | 32144-10    | 6    | Screw-HWH              |
| 12   | 3234-4      | 2    | Screw-HHF              |
| 13   | 104-0468-01 | 1    | Cover-Frame            |
| 18   | 3234-5      | 2    | Screw-HHF              |
| 19   | 107-7833    | 1    | ROPS ASM               |
| 19:1 | 107-7831    | 1    | Decal-ROPS             |

| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 20   | 3234-40     | 4    | Screw-HF         |
| 21   | 32148-8     | 2    | Nut-Clinch       |
| 23   | 104-7050    | 1    | Tube-Manual      |
| 24   | 2412-133    | 2    | Clamp-R          |
| 25   | 32144-70    | 2    | Screw-HWHTF      |
| 26   | 3256-23     | 2    | Washer-Plain     |
| 28   | 2412-108    | 1    | Clamp-Worm       |
| 32   | 32148-6     | 2    | Nut-Clinch       |
| 34   | 104-4634-03 | 1    | Toolbox          |
| 35   | 104-4633-03 | 1    | Cover-Toolbox    |
| 36   | 108-9015    | 1    | Decal-Danger     |
| 37   | 104-5181    | 1    | Decal-Danger, CE |
| 38   | 104-7048    | 1    | Cap-Housing      |

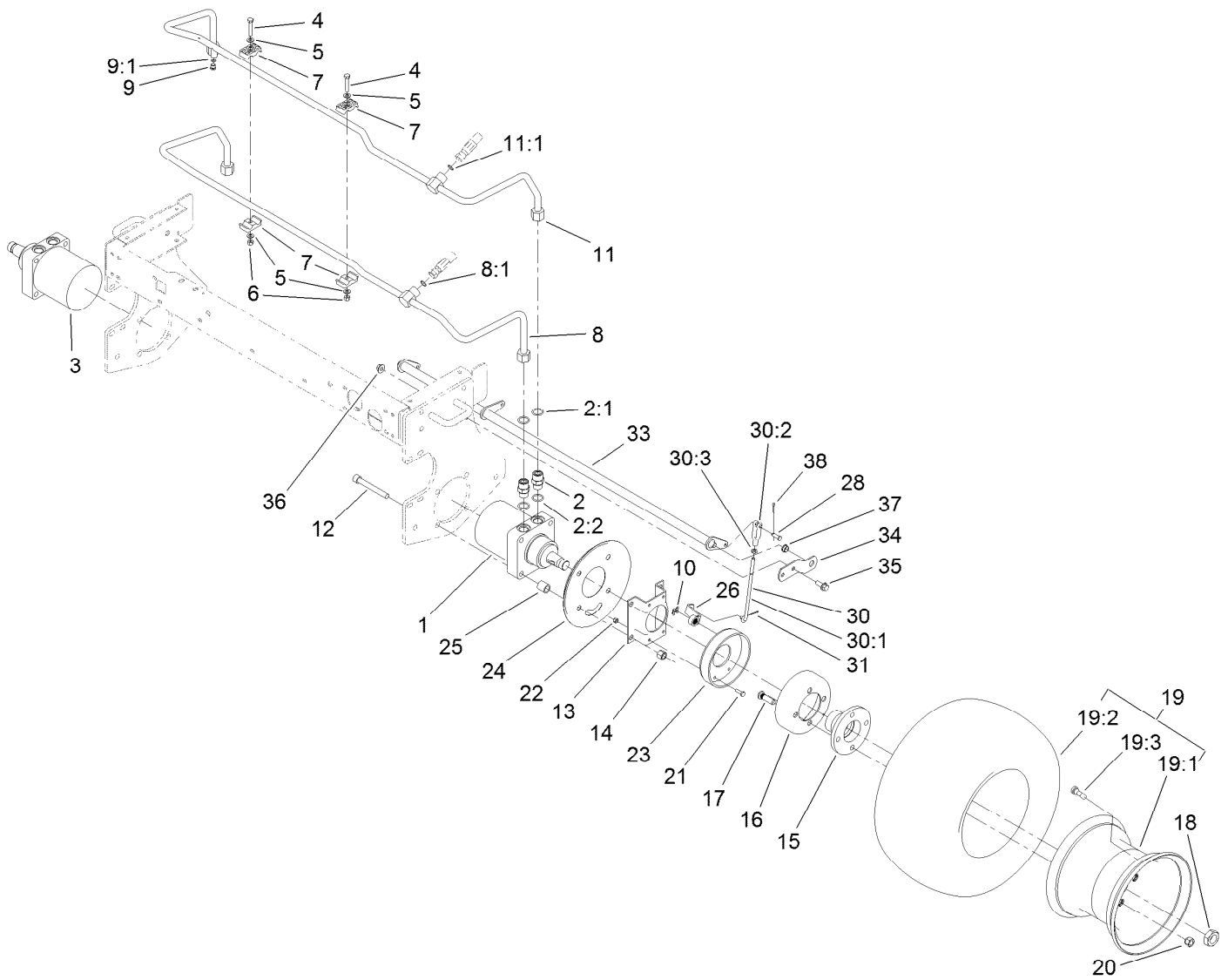


## Front Wheel and Brake Assembly

| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 1    | 110-8785    | 1    | HYD Motor ASM (CCW) |
| 2    | 340-7       | 4    | Fitting-Straight    |
| 2:1  | 237-65      | 1    | O-Ring              |
| 2:2  | 237-80      | 1    | O-Ring              |
| 3    | 110-8786    | 1    | HYD Motor ASM (CW)  |
| 4    | 322-9       | 2    | Screw-HH            |
| 5    | 3256-23     | 4    | Washer-Plain        |
| 6    | 3296-29     | 2    | Nut-Lock, NI        |
| 7    | 56-7971     | 4    | Clamp-Tube          |
| 8    | 95-8783     | 1    | Tube ASM            |
| 8:1  | 237-65      | 1    | O-Ring              |
| 9    | 353-990     | 1    | Plug ASM            |
| 9:1  | 237-78      | 1    | O-Ring              |
| 10   | 104-7706    | 2    | E-Ring, Bowed       |
| 11   | 95-8784     | 1    | Tube ASM            |
| 11:1 | 237-65      | 1    | O-Ring              |
| 12   | 3274-99     | 8    | Screw-HSH           |
| 13   | 84-2000-03  | 2    | Bracket-Brake       |

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 14   | 3296-23     | 8    | Nut-Lock, NI       |
| 15   | 93-6838     | 2    | Hub-Wheel          |
| 16   | 10-6850     | 2    | Drum-Brake         |
| 17   | 85-6540     | 8    | Stud-Drive         |
| 18   | 26-3790     | 2    | Nut-Lock           |
| 19   |             | 2    | Tire And Rim ASM ● |
| 19:1 | 121-3550    | 1    | Rim                |
| 19:2 | 115-1572    | 1    | Tire               |
| 19:3 | 232-27      | 1    | Stem-Valve         |
| 20   | 242-50      | 8    | Nut-Lug            |
| 21   | 321-5       | 8    | Screw-HH           |
| 22   | 3296-42     | 8    | Nut-Lock, NI       |
| 23   | 104-7705    | 2    | Brake ASM          |
| 24   | 104-0485-03 | 2    | Shield-Wheel       |
| 25   | 119-8238    | 8    | Spacer-Deck Pulley |
| 26   | 114-2726    | 2    | Lever-Brake        |
| 28   | 283-1       | 2    | Pin-Clevis         |
| 30   | 115-6672    | 2    | Brake Lever ASM    |

● Not serviced separately

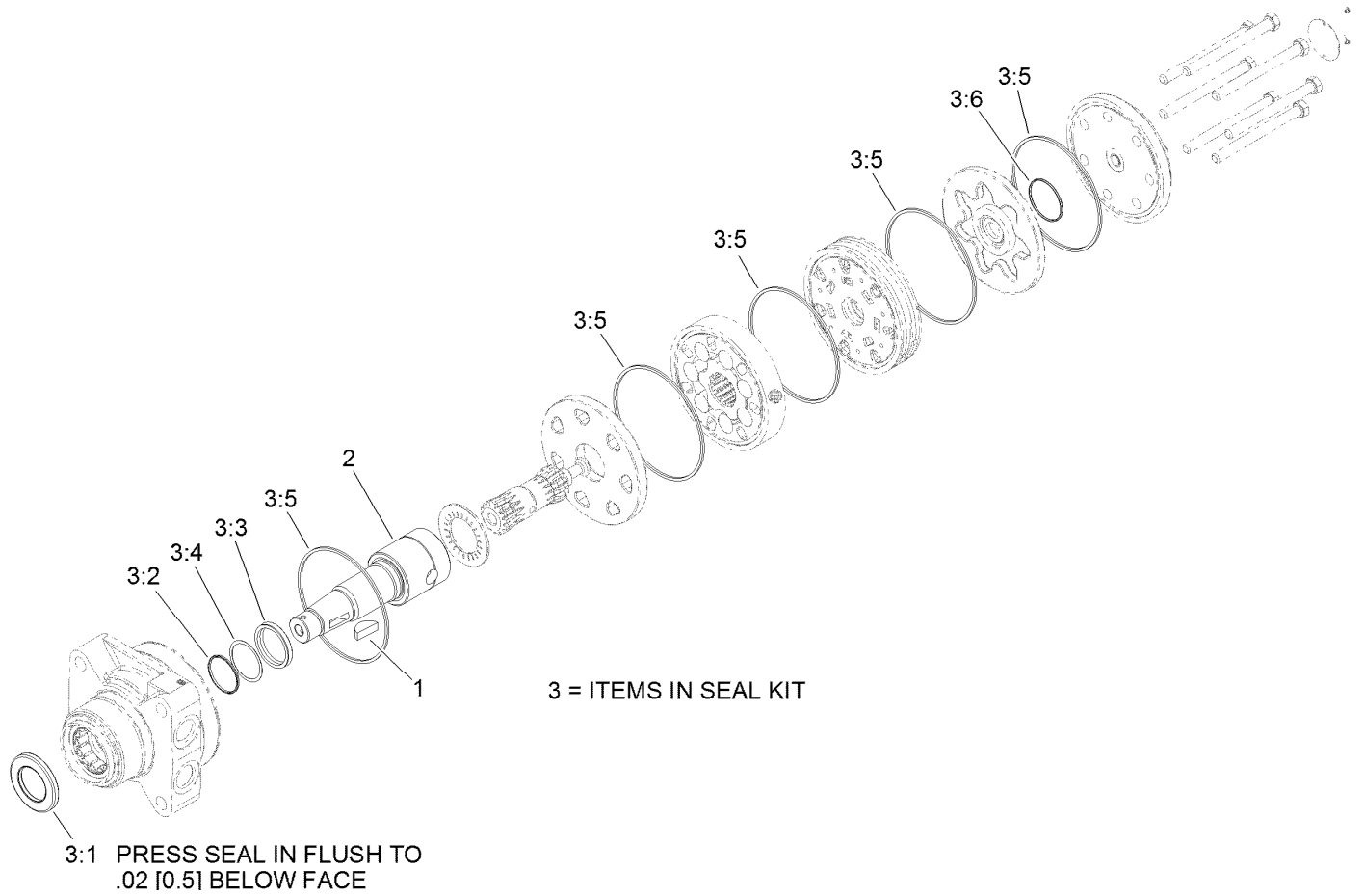


## Front Wheel and Brake Assembly (continued)

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 30:1 | 104-4627    | 1    | Rod-Adjusting      |
| 30:2 | 1-303105    | 1    | Yoke-Adjustable    |
| 30:3 | 3220-2      | 1    | Nut-Jam            |
| 31   | 3272-6      | 2    | Pin-Cotter         |
| 33   | 104-4625-03 | 1    | Shaft-Pivot, Brake |

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 34   | 95-8683     | 2    | Bracket-Pivot, Brake |
| 35   | 3234-11     | 4    | Screw-HHF            |
| 36   | 32128-43    | 4    | Nut-Flange           |
| 37   | 256-156     | 2    | Bushing-Flange       |
| 38   | 3272-10     | 2    | Pin-Cotter           |

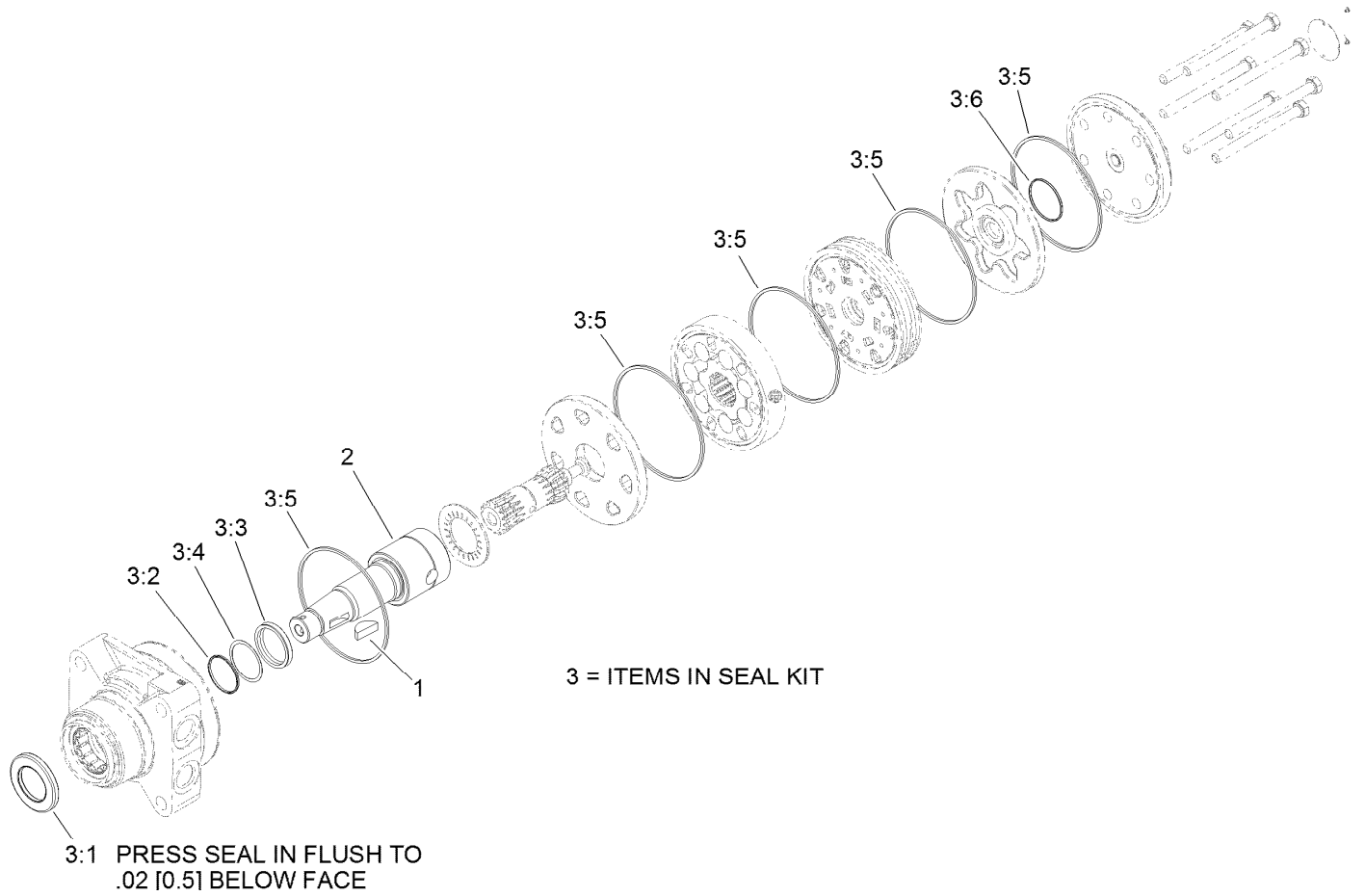
● Not serviced separately



## Hydraulic Motor Assembly No. 110-8785

| Ref. | Part Number | Qty. | Description                 |
|------|-------------|------|-----------------------------|
| 1    | 3257-42     | 1    | Key-Woodruff                |
| 2    | 99-3090     | 1    | Shaft-Coupling              |
| 3    | 94-8178     | 1    | Seal Kit                    |
| 3:1  |             | 1    | Seal-Dirt And Water ●       |
| 3:2  |             | 1    | Backup-Ring ●               |
| 3:3  |             | 1    | Seal-Shaft ●                |
| 3:4  |             | 1    | Washer-Backup ●             |
| 3:5  |             | 5    | Seal-Square, Ring (Inner) ● |
| 3:6  |             | 1    | Seal-Commutator ●           |

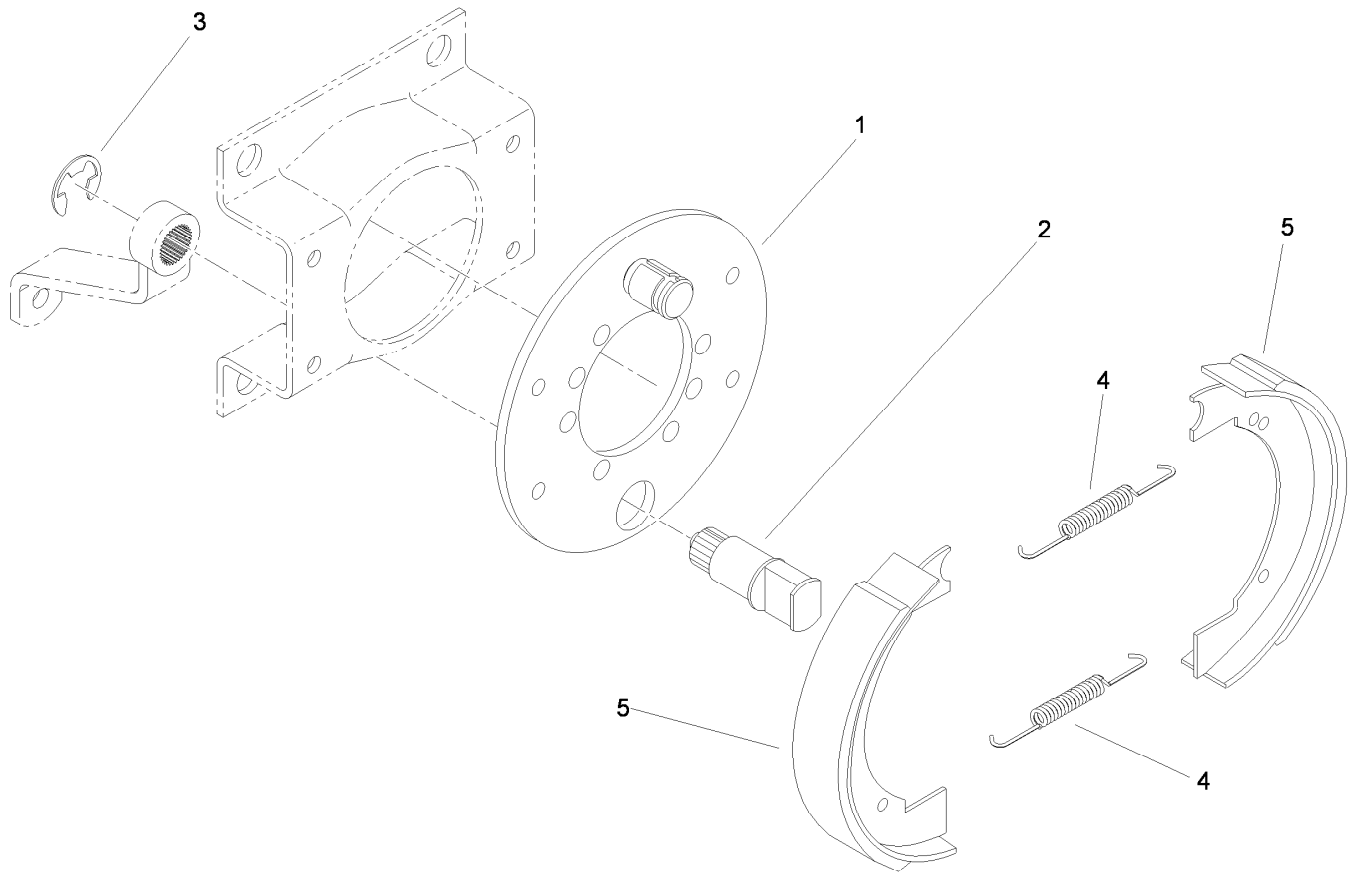
● Not serviced separately



## Hydraulic Motor Assembly No. 110-8786

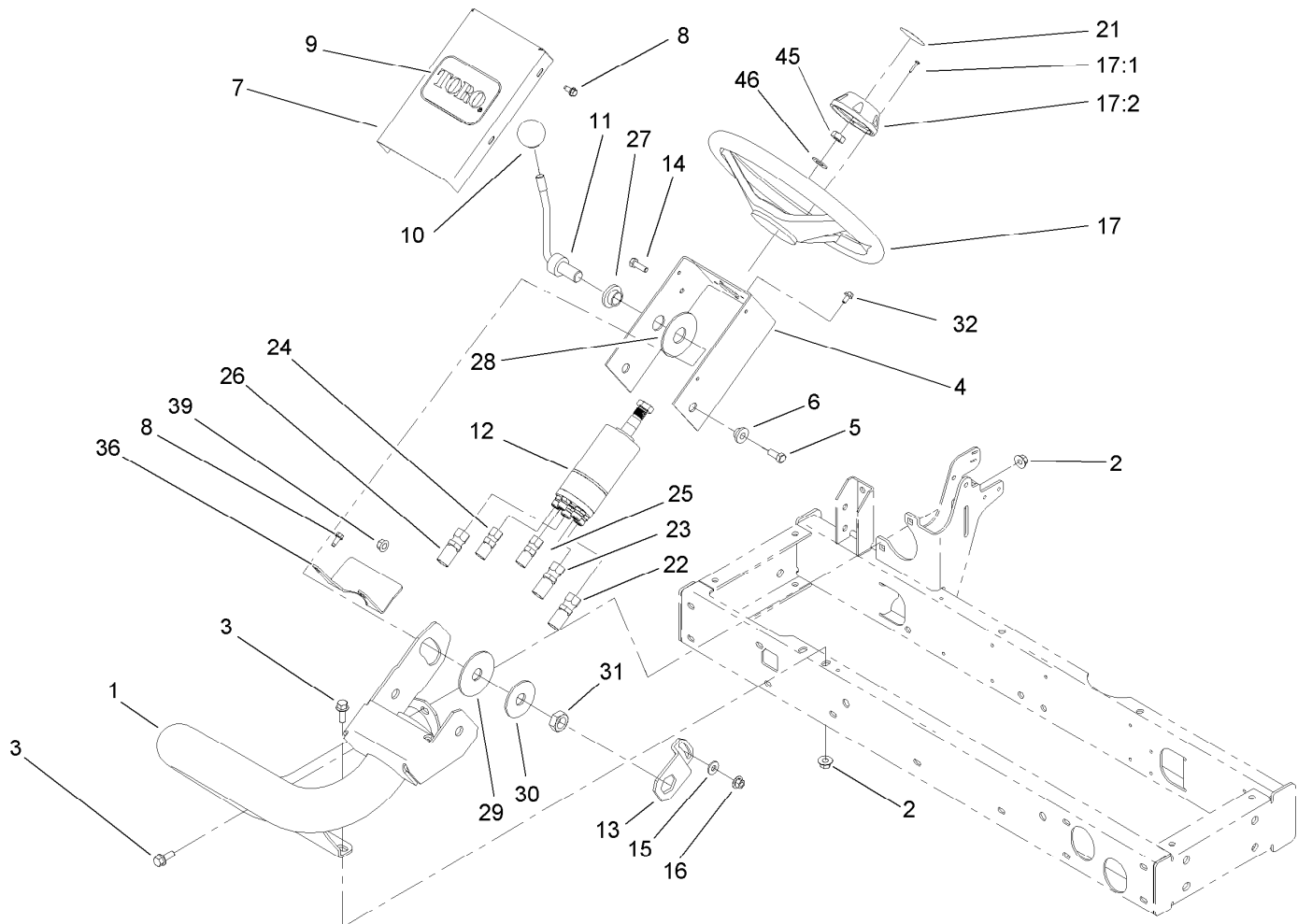
| Ref. | Part Number | Qty. | Description                 |
|------|-------------|------|-----------------------------|
| 1    | 3257-42     | 1    | Key-Woodruff                |
| 2    | 99-3090     | 1    | Shaft-Coupling              |
| 3    | 94-8178     | 1    | Seal Kit                    |
| 3:1  |             | 1    | Seal-Dirt And Water ●       |
| 3:2  |             | 1    | Backup-Ring ●               |
| 3:3  |             | 1    | Seal-Shaft ●                |
| 3:4  |             | 1    | Washer-Backup ●             |
| 3:5  |             | 5    | Seal-Square, Ring (Inner) ● |
| 3:6  |             | 1    | Seal-Commutator ●           |

● Not serviced separately



## Brake Assembly No. 104-7705

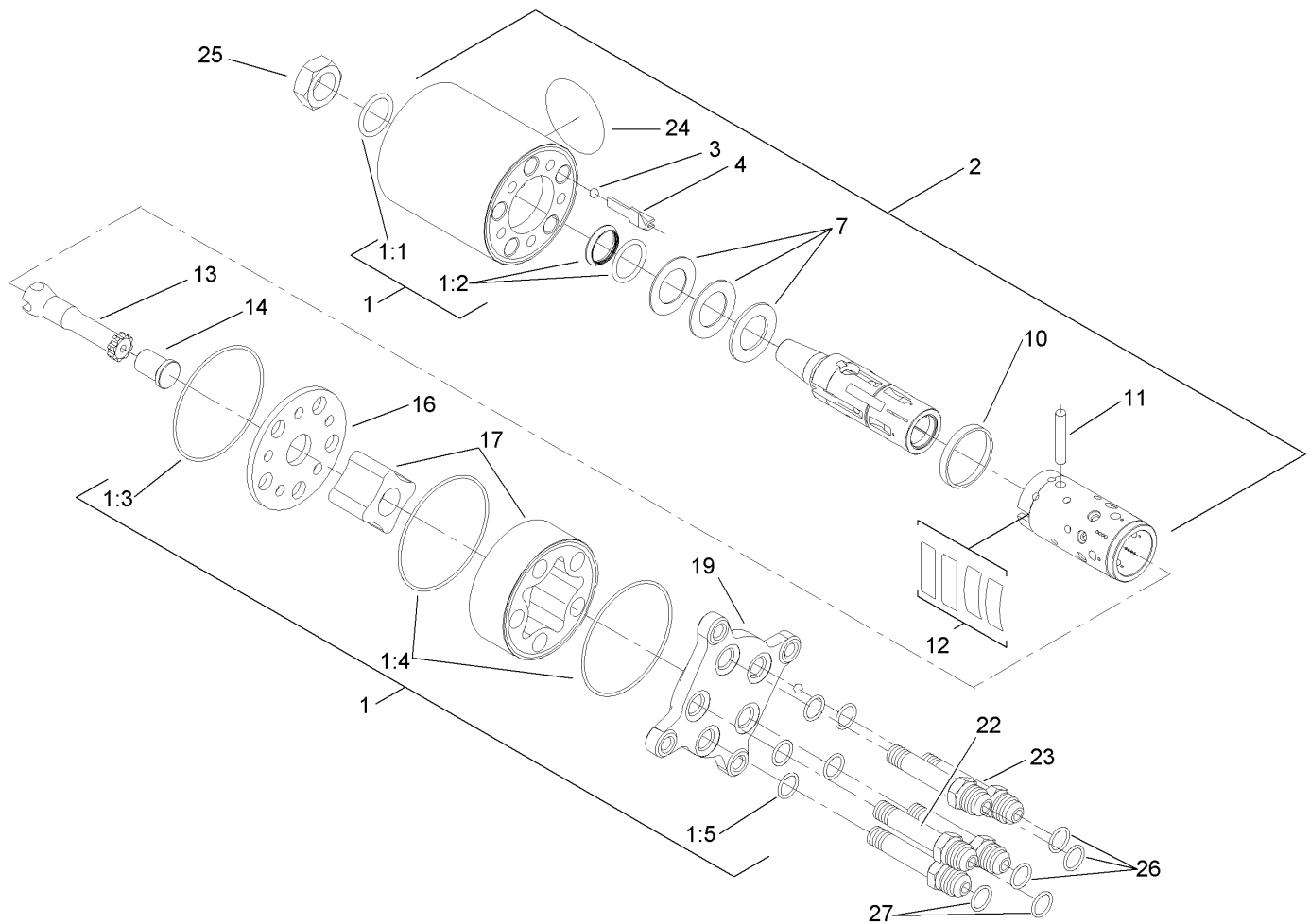
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 70-9870            | 1           | Plate-Backing      |
| 2           | 104-7707           | 1           | Shaft-Cam, Brake   |
| 3           | 104-7706           | 1           | E-Ring, Bowed      |
| 4           | 70-9880            | 2           | Spring-Return      |
| 5           | 70-9840            | 2           | Shoe-Brake         |



## Steering Column Assembly

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    | 108-9003-01 | 1    | Arm-Steering            |
| 2    | 32128-43    | 4    | Nut-Flange              |
| 3    | 3234-11     | 4    | Screw-HHF               |
| 4    | 104-5185-01 | 1    | Bracket-Valve, Steering |
| 5    | 323-5       | 2    | Screw-HH                |
| 6    | 93-5988     | 2    | Hub-Pivot               |
| 7    | 95-8794-01  | 1    | Cover-Valve, Steering   |
| 8    | 32144-10    | 5    | Screw-HWH               |
| 9    | 67-1300     | 1    | Decal                   |
| 10   | 233-48      | 1    | Knob                    |
| 11   | 95-8798-03  | 1    | Lever-Steering          |
| 12   | 104-5180    | 1    | Steering Valve ASM      |
| 13   | 80-2880     | 1    | Bracket-Tilt            |
| 14   | 322-5       | 1    | Screw-HH                |
| 15   | 3256-3      | 1    | Washer-Flat             |
| 16   | 32128-44    | 1    | Nut                     |
| 17   | 75-0560     | 1    | Steering Wheel ASM      |
| 17:1 | 32144-21    | 1    | Screw                   |

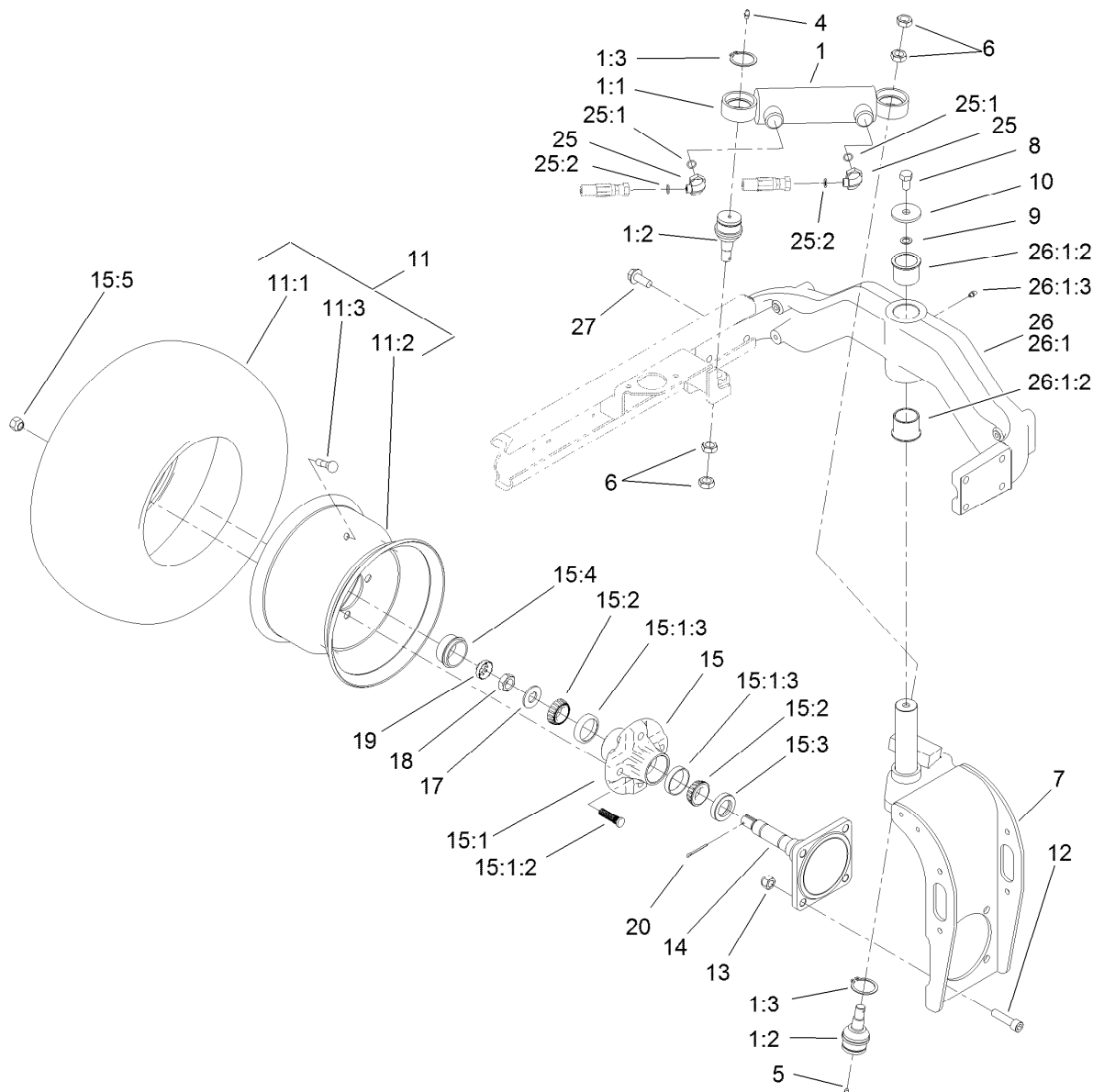
| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 17:2 | 68-5140     | 1    | Cap-Wheel, Steering |
| 21   | 68-5370     | 1    | Decal               |
| 22   | 95-8842     | 1    | Hose-HYD            |
| 23   | 95-8843     | 1    | Hose-HYD            |
| 24   | 100-4892    | 1    | Hose-HYD            |
| 25   | 100-4893    | 1    | Hose-HYD            |
| 26   | 95-8846     | 1    | Hose-HYD            |
| 27   | 99-3502     | 1    | Boss                |
| 28   | 31-0390     | 1    | Disc-Friction       |
| 29   | 82-9010     | 1    | Disc-Friction       |
| 30   | 80-2930     | 1    | Washer-Flat         |
| 31   | 3218-7      | 1    | Nut-Jam             |
| 32   | 33103-012   | 4    | Screw-HHF           |
| 36   | 99-3405-01  | 1    | Shield-Steering     |
| 39   | 32128-21    | 2    | Nut-HF Lock         |
| 45   | 3296-33     | 1    | Nut-Lock, NI        |
| 46   | 3256-27     | 1    | Washer-Flat         |



## Steering Valve Assembly No. 104-5180

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

● Not serviced separately

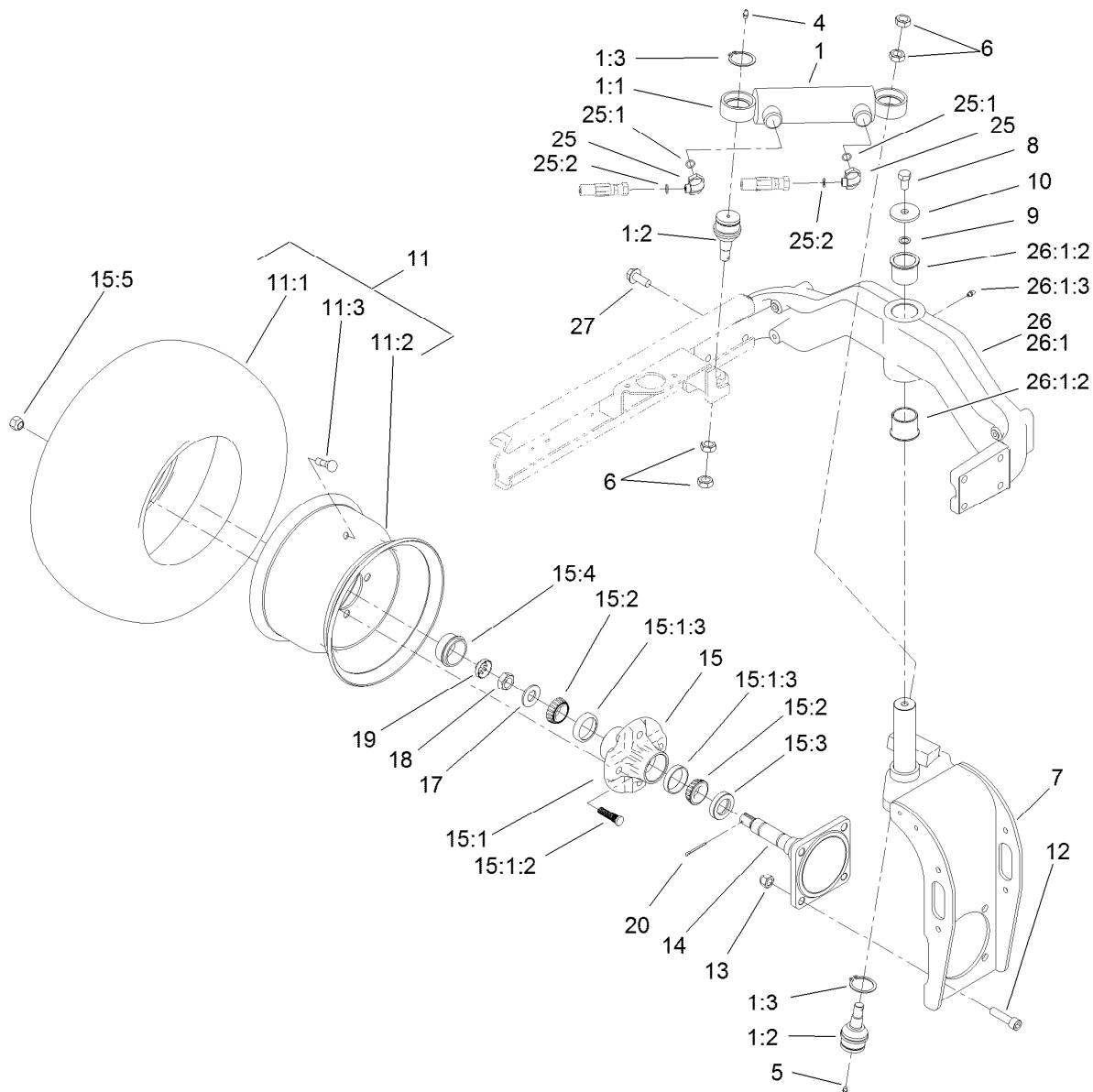


## Rear Fork and Tire Assembly

| Ref. | Part Number | Qty. | Description                         |
|------|-------------|------|-------------------------------------|
| 1    |             | 1    | Steering Cylinder / Balljoint ASM ● |
| 1:1  | 94-8141     | 1    | HYD Cylinder ASM                    |
| 1:2  | 106-6774    | 2    | Joint-Ball                          |
| 1:3  | 32151-104   | 2    | Ring-Retaining, External            |
| 4    | 302-5       | 1    | Fitting-Grease                      |
| 5    | 302-59      | 1    | Plug-EXT Hex Spl                    |
| 6    | 3220-6      | 4    | Nut-Jam                             |
| 7    | 95-8905-01  | 1    | Fork-Rear                           |
| 8    | 325-3       | 1    | Screw-HH                            |
| 9    | 3255-2      | 1    | Washer-Lock, EXT                    |
| 10   | 75-7730     | 1    | Washer-Thrust                       |
| 11   |             | 1    | Wheel And Tire ASM ●                |
| 11:1 | 117-5129    | 1    | Rim                                 |
| 11:2 | 115-1572    | 1    | Tire                                |
| 11:3 | 232-27      | 1    | Stem-Valve                          |
| 12   | 3274-5      | 4    | Screw-HSH                           |
| 13   | 3296-23     | 4    | Nut-Lock, NI                        |

| Ref.   | Part Number | Qty. | Description           |
|--------|-------------|------|-----------------------|
| 14     | 115-6655-03 | 1    | Spindle               |
| 15     | 117-5115    | 1    | Hub And Bearing ASM   |
| 15:1   | 117-8251    | 1    | Hub ASM               |
| 15:1:2 | 114-3918    | 4    | Stud-Wheel            |
| 15:1:3 | 254-72      | 2    | Bearing-Cup, Tapered  |
| 15:2   | 254-94      | 2    | Bearing-Cone, Tapered |
| 15:3   | 112-1690    | 1    | Seal-Oil              |
| 15:4   | 241-119     | 1    | Cap-Dust              |
| 15:5   | 242-50      | 4    | Nut-Lug               |
| 17     | 93-0309     | 1    | Washer-Tab            |
| 18     | 3220-7      | 1    | Nut-Jam               |
| 19     | 93-0307     | 1    | Nut-Lock, Retainer    |
| 20     | 3272-13     | 1    | Pin-Cotter            |
| 25     | 340-132     | 2    | Fitting-Elbow, 90 DEG |
| 25:1   | 237-78      | 1    | O-Ring                |
| 25:2   | 237-21      | 1    | O-Ring                |
| 26     | 107-7828-03 | 1    | Casting-Rear          |
| 26:1   |             | 1    | Rear Casting ASM ●    |

● Not serviced separately

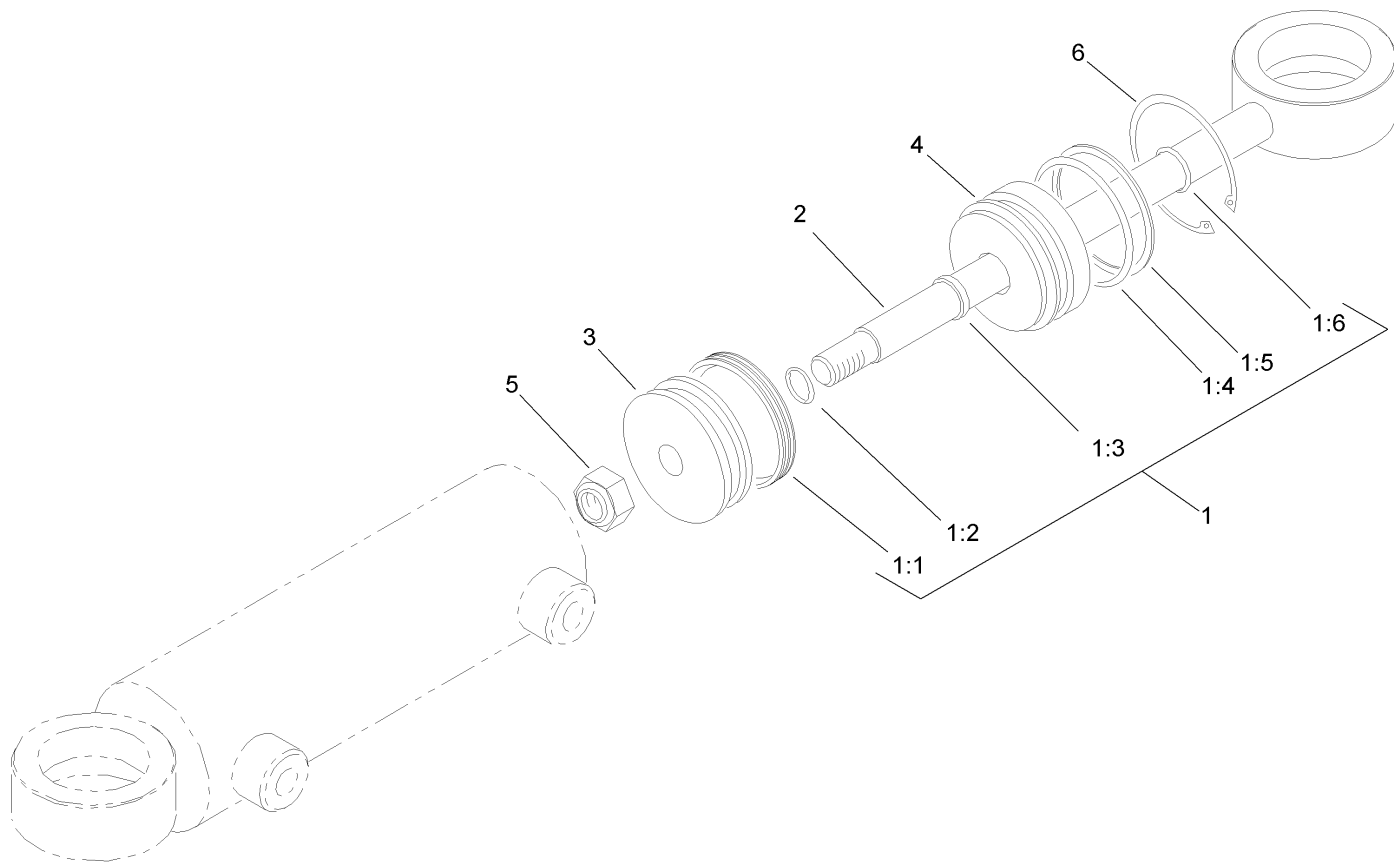


## Rear Fork and Tire Assembly (continued)

| Ref.   | Part Number | Qty. | Description |
|--------|-------------|------|-------------|
| 26:1:2 | 95-8805     | 2    | Bushing     |

| Ref.   | Part Number | Qty. | Description    |
|--------|-------------|------|----------------|
| 26:1:3 | 302-5       | 1    | Fitting-Grease |
| 27     | 3234-38     | 8    | Screw-HHF      |

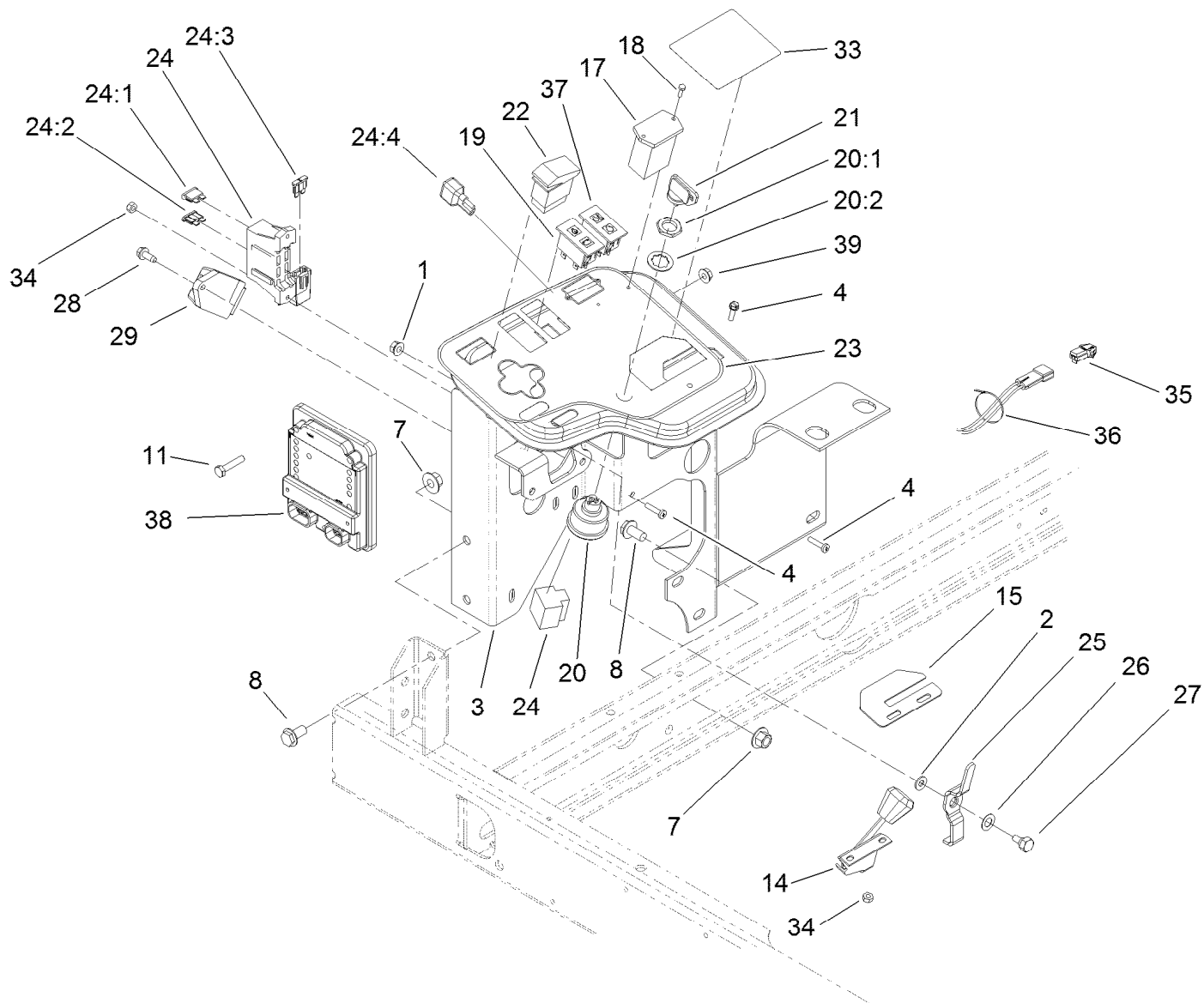
● Not serviced separately



## Hydraulic Cylinder Assembly No. 94-8141

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 86-5390            | 1           | Seal Kit           |
| 1:1         |                    | 1           | Uniring ●          |
| 1:2         |                    | 1           | O-Ring ●           |
| 1:3         |                    | 1           | Seal-Rod ●         |
| 1:4         |                    | 1           | O-Ring ●           |
| 1:5         |                    | 1           | Ring-Backup ●      |
| 1:6         |                    | 1           | O-Ring ●           |
| 2           |                    | 1           | Rod ●              |
| 3           |                    | 1           | Piston ●           |
| 4           |                    | 1           | Gland ●            |
| 5           |                    | 1           | Nut-Lock ●         |
| 6           |                    | 1           | Ring-Retaining ●   |

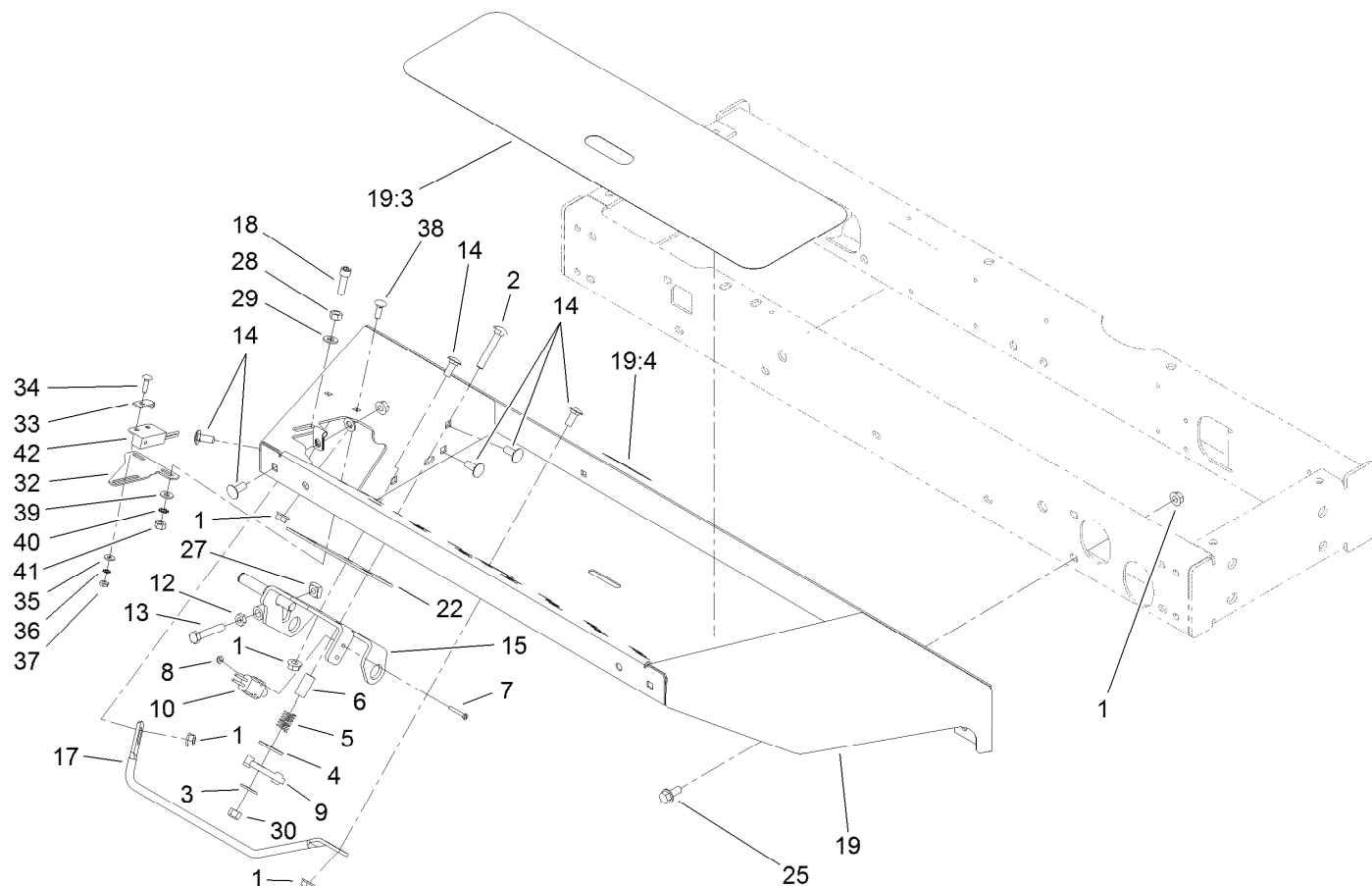
● Not serviced separately



## Control Panel Assembly

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 1    | 32128-32    | 1    | Nut-HHF              |
| 2    | 3256-22     | 1    | Washer-Flat          |
| 3    | 115-3496-03 | 1    | Panel-Control        |
| 4    | 3290-134    | 4    | Screw                |
| 7    | 32128-43    | 5    | Nut-Flange           |
| 8    | 3234-1      | 5    | Screw-HHF            |
| 11   | 321-8       | 3    | Screw-HH             |
| 14   | 110-8795    | 1    | Cable-Throttle       |
| 15   | 104-0421    | 1    | Plate-Stop, Throttle |
| 17   | 75-6820     | 1    | Hourmeter            |
| 18   | 32144-18    | 2    | Screw-HWH            |
| 19   | 100-8070    | 1    | Lamp-Warning         |
| 20   | 104-2541    | 1    | Ignition Switch ASM  |
| 20:1 | 218-461     | 1    | Nut-HH               |
| 20:2 | 3254-5      | 1    | Washer-Lock          |
| 21   | 63-8360     | 2    | Key-Ignition         |
| 22   | 93-9999     | 1    | Switch-PTO           |
| 23   | 121-3581    | 1    | Decal-Console        |

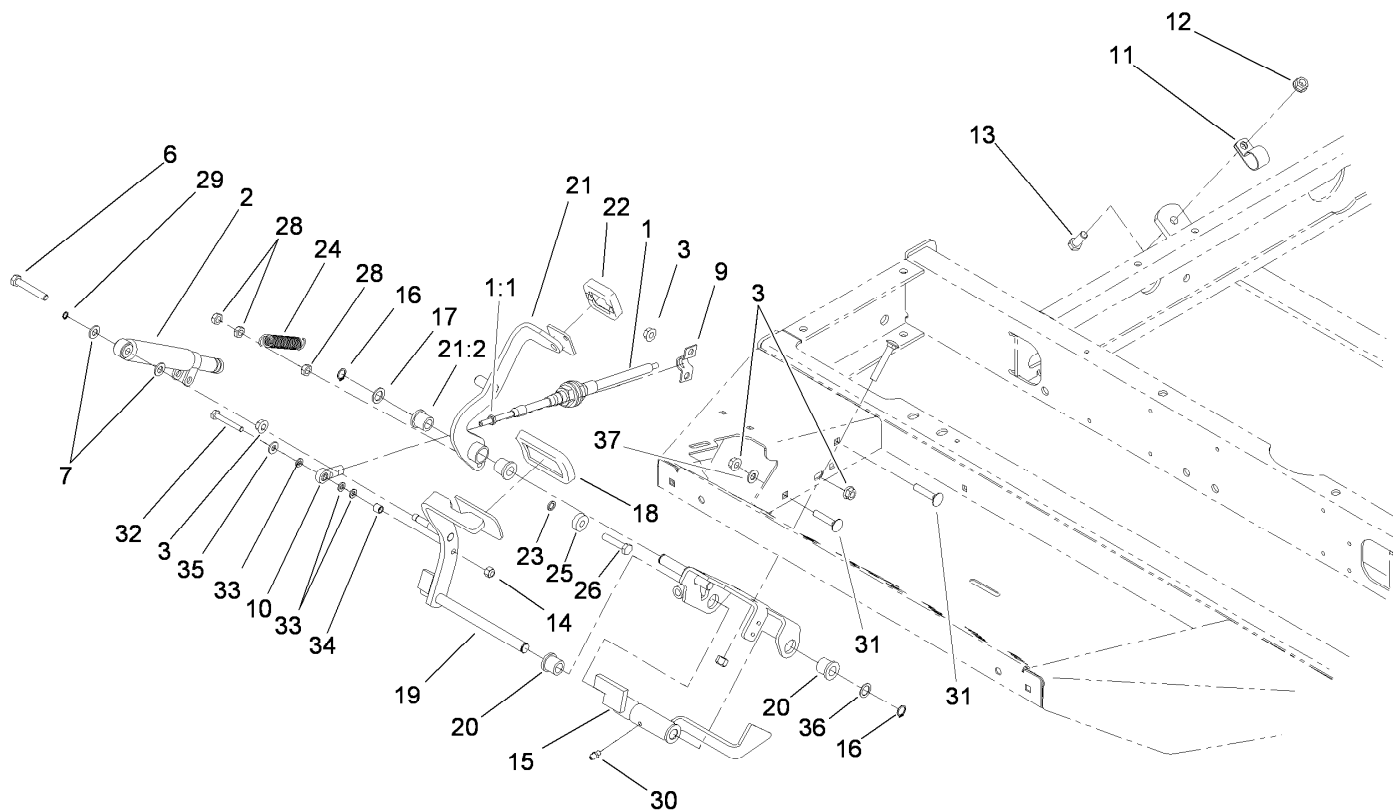
| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 24   | 122-0258    | 1    | Harness-Wire             |
| 24:1 | 218-578     | 1    | Fuse-Blade, 10 Amp       |
| 24:2 | 109355      | 1    | Fuse-Blade, 15 Amp       |
| 24:3 | 94-6710     | 1    | Fuse-2 Amp               |
| 24:4 | 100-4918    | 1    | Diode                    |
| 25   | 99-3401-03  | 1    | Lever-Valve, Lock        |
| 26   | 3290-477    | 1    | Washer-Curved            |
| 27   | 63-3410     | 1    | Screw-Shoulder           |
| 28   | 32144-10    | 1    | Screw-HWH                |
| 29   | 98-7611     | 1    | Controller-Glow          |
| 33   | 99-3558     | 1    | Decal-Console, CE        |
| 34   | 3290-148    | 4    | Nut-HF                   |
| 35   | 104-4875    | 1    | Harness-Wire, Jumper     |
| 36   | 3290-379    | 1    | Tie-Cable                |
| 37   | 100-8071    | 1    | Lamp-Warning             |
| 38   | 106-9277    | 1    | Module-Control, Standard |
| 39   | 32128-33    | 3    | Nut-HF                   |



## Front Platform Assembly

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    | 32128-20    | 17   | Nut-HF                  |
| 2    | 3230-6      | 1    | Bolt-CARR               |
| 3    | 3256-3      | 1    | Washer-Flat             |
| 4    | 3256-40     | 1    | Washer-Flat             |
| 5    | 65-9940     | 1    | Spring                  |
| 6    | 95-8866     | 1    | Tube-Arm, Rocker        |
| 7    | 32105-9     | 2    | Screw                   |
| 8    | 3296-9      | 2    | Nut-Hex                 |
| 9    | 99-3593     | 1    | Arm-Rocker              |
| 10   | 95-8900     | 1    | Switch                  |
| 12   | 3218-2      | 1    | Nut-Hex Jam             |
| 13   | 322-41      | 1    | Bolt-Hex,TAP            |
| 14   | 3230-23     | 6    | Bolt-CARR               |
| 15   | 95-8869-03  | 1    | Bracket-Pedal, Traction |
| 17   | 95-8893     | 1    | Bar-Deflector           |
| 18   | 3274-22     | 1    | Screw-HSH               |
| 19   | 106-4154    | 1    | Floorplate ASM          |
| 19:3 | 99-3478     | 1    | Tread-Foot              |

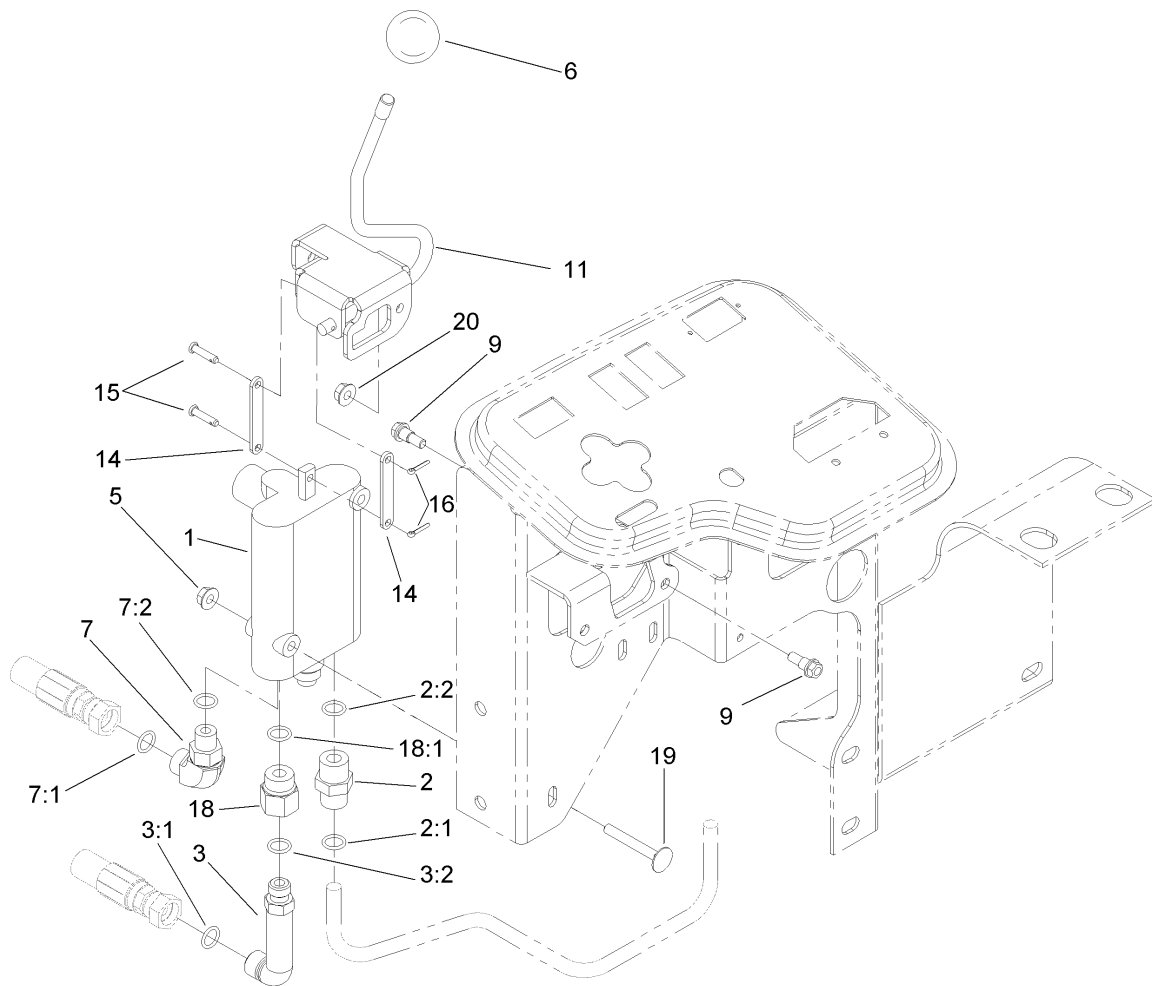
| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 19:4 | 99-3444     | 1    | Decal-Mow / Transport   |
| 22   | 106-2661-01 | 1    | Plate-Support           |
| 25   | 3234-5      | 10   | Screw-HHF               |
| 27   | 99-3565     | 1    | Nut-Square              |
| 28   | 3217-6      | 1    | Nut-Hex                 |
| 29   | 3256-23     | 1    | Washer-Plain            |
| 30   | 3296-29     | 1    | Nut-Lock, NI            |
| 32   | 100-4871    | 1    | Bracket-Switch, Neutral |
| 33   | 100-4872    | 1    | Plate-Switch, Neutral   |
| 34   | 3229-20     | 1    | Screw-CARR              |
| 35   | 3256-14     | 1    | Washer-Flat             |
| 36   | 3255-17     | 1    | Washer-Lock, EXT        |
| 37   | 3296-2      | 1    | Nut-Lock, NI            |
| 38   | 3229-1      | 2    | Screw-CARR              |
| 39   | 3256-22     | 2    | Washer-Flat             |
| 40   | 3255-7      | 2    | Washer-Lock/EXT         |
| 41   | 3217-5      | 2    | Nut-Hex                 |
| 42   | 100-1270    | 1    | Switch-Proximity        |



## Traction Pedal Assembly

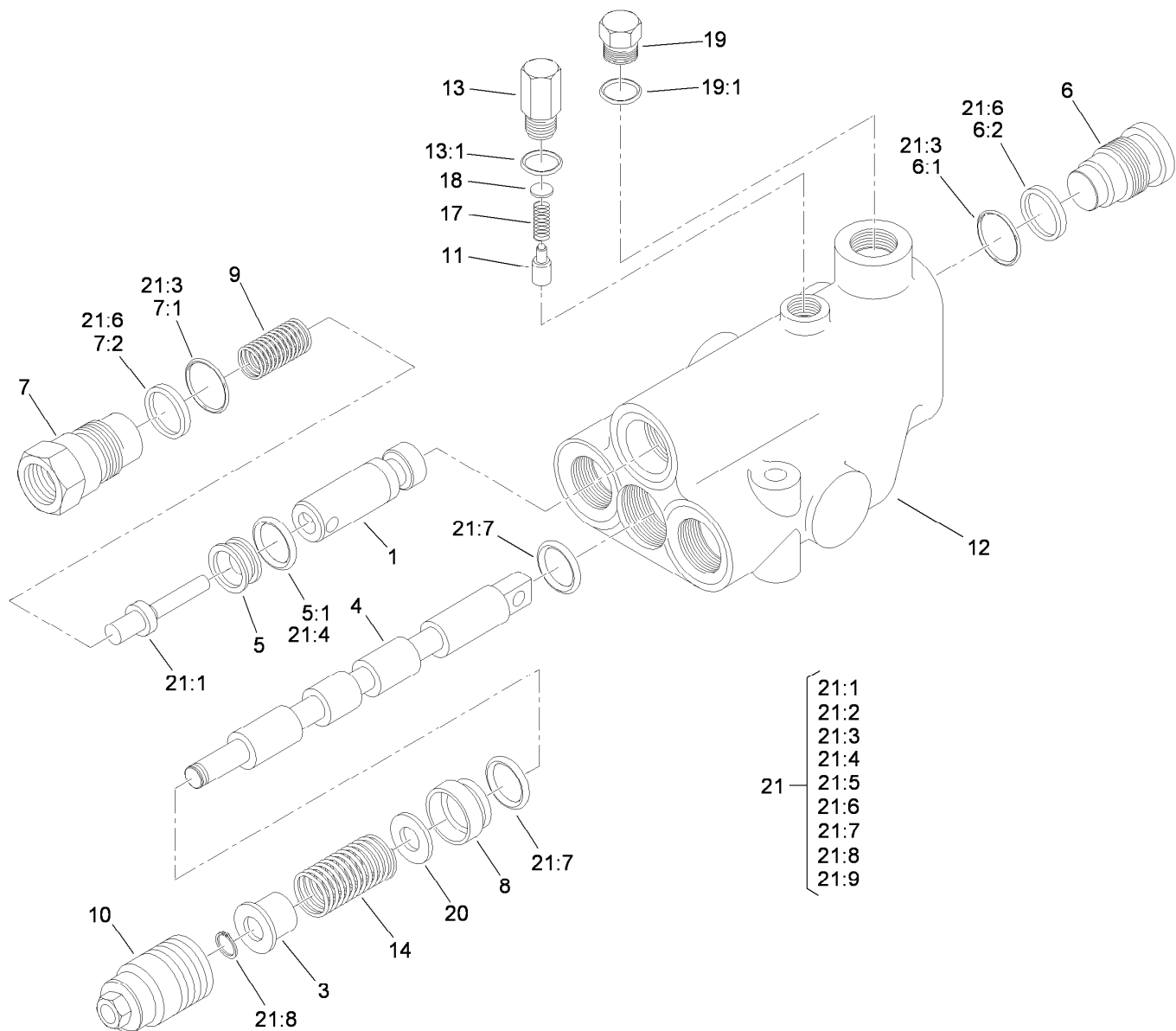
| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    | 100-4815    | 1    | Cable-Control, Traction |
| 1:1  | 3220-1      | 2    | Nut-Jam                 |
| 2    | 76-8870     | 1    | Damper-Lever            |
| 3    | 32128-20    | 5    | Nut-HF                  |
| 6    | 322-10      | 1    | Screw-HH                |
| 7    | 3256-23     | 2    | Washer-Plain            |
| 9    | 93-2092     | 1    | Clamp-Cable             |
| 10   | 2411-41     | 1    | Rod End-Ball Joint      |
| 11   | 2412-41     | 1    | Clamp-R                 |
| 12   | 3290-357    | 1    | Nut-HHF, Whiz           |
| 13   | 323-6       | 1    | Screw-HH                |
| 14   | 3296-42     | 1    | Nut-Lock, NI            |
| 15   | 95-8861     | 1    | Slide                   |
| 16   | 32151-84    | 2    | Ring-Shaft, EXT         |
| 17   | 41-8440     | 1    | Washer                  |
| 18   | 74-9100     | 1    | Pad-Pedal, Forward      |
| 19   | 104-4852-03 | 1    | Pedal-Traction          |
| 20   | 256-243     | 2    | Bearing-Flange          |

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 21   | 99-3379     | 1    | Pedal-Reverse ASM  |
| 21:2 | 256-243     | 2    | Bearing-Flange     |
| 22   | 74-9110     | 1    | Pad-Pedal, Reverse |
| 23   | 75-5470     | 1    | Spacer-Bearing     |
| 24   | 99-3476     | 1    | Spring-Extension   |
| 25   | 251-259     | 1    | Bearing-Ball       |
| 26   | 322-7       | 1    | Screw-HH           |
| 28   | 3296-47     | 3    | Nut-Lock, NI       |
| 29   | 32151-3     | 1    | Ring-Grip          |
| 30   | 302-5       | 1    | Fitting-Grease     |
| 31   | 3230-27     | 1    | Screw-CARR         |
| 32   | 321-10      | 1    | Screw-HH           |
| 33   | 33093-00    | 3    | Washer-Flat        |
| 34   | 99-3545     | 1    | Spacer             |
| 35   | 3256-22     | 1    | Washer-Flat        |
| 36   | 73-0040     | 4    | Washer-Thrust      |
| 37   | 3256-24     | 1    | Washer-Flat        |



## Control Valve Assembly

| Ref. | Part Number | Qty. | Description                    |
|------|-------------|------|--------------------------------|
| 1    | 95-8689     | 1    | Single Spool Control Valve ASM |
| 2    | 340-3       | 1    | Fitting-Straight               |
| 2:1  | 237-22      | 1    | O-Ring                         |
| 2:2  | 237-79      | 1    | O-Ring                         |
| 3    | 69-4320     | 1    | Fitting-HYD, 90 DEG            |
| 3:1  | 237-22      | 1    | O-Ring                         |
| 3:2  | 237-42      | 1    | O-Ring                         |
| 5    | 32128-33    | 2    | Nut-HF                         |
| 6    | 233-42      | 1    | Knob                           |
| 7    | 340-77      | 1    | Fitting-Elbow, 90 DEG          |
| 7:1  | 237-22      | 1    | O-Ring                         |
| 7:2  | 237-42      | 1    | O-Ring                         |
| 9    | 42-3560     | 2    | Bolt-Shoulder                  |
| 11   | 95-8692     | 1    | Lever ASM                      |
| 14   | 95-8634     | 2    | Link                           |
| 15   | 283-16      | 2    | Pin-Clevis                     |
| 16   | 3272-1      | 2    | Pin-Cotter                     |
| 18   | 353-397     | 1    | Reducer-Adapter                |
| 18:1 | 237-79      | 1    | O-Ring                         |
| 19   | 3230-33     | 2    | Screw-CARR                     |
| 20   | 32128-32    | 2    | Nut-HHF                        |

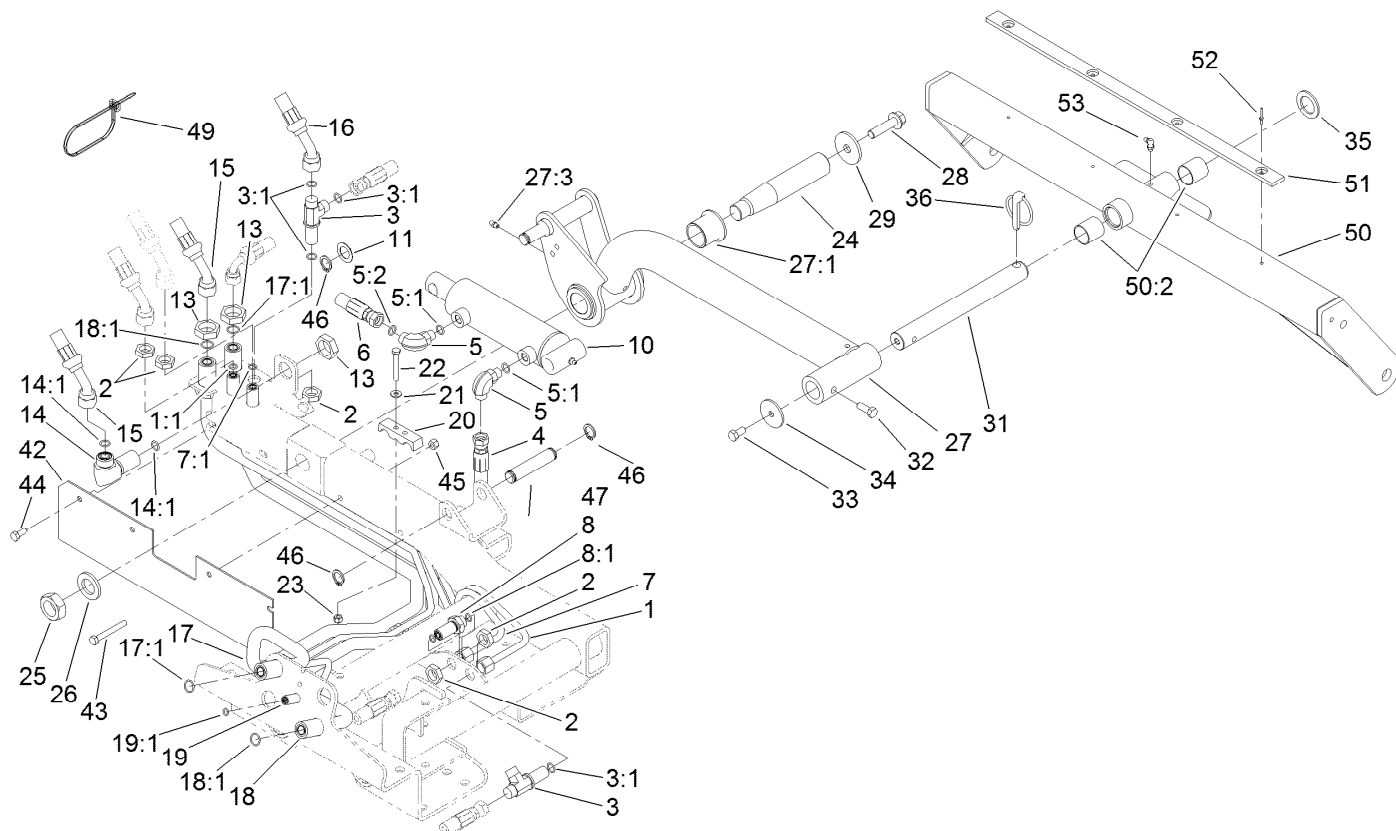


## Single Spool Control Valve Assembly No. 95-8689

| Ref. | Part Number | Qty. | Description    |
|------|-------------|------|----------------|
| 1    | 99-3586     | 1    | Plunger        |
| 3    | 58-6310     | 1    | Spacer         |
| 4    |             | 1    | Spool ●        |
| 5    | 58-6330     | 1    | Seat           |
| 5:1  | 58-6340     | 1    | O-Ring         |
| 6    | 58-6350     | 1    | Plug           |
| 6:1  | 60-5720     | 1    | O-Ring         |
| 6:2  | 58-6370     | 1    | Washer         |
| 7    | 69-1800     | 1    | Plug ASM       |
| 7:1  | 60-5720     | 1    | O-Ring         |
| 7:2  | 58-6370     | 1    | Washer         |
| 8    | 58-6400     | 1    | Bushing        |
| 9    | 69-1810     | 1    | Spring         |
| 10   | 58-6420     | 1    | Cap            |
| 11   | 99-3585     | 1    | Detent-Plunger |
| 12   |             | 1    | Body ●         |
| 13   | 99-3588     | 1    | Plug ASM       |

| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 13:1 | 60-6410     | 1    | O-Ring           |
| 14   | 99-3531     | 1    | Spring           |
| 17   | 99-3587     | 1    | Spring           |
| 18   | 60-6450     | 1    | Disc             |
| 19   | 353-989     | 1    | Plug-Hex, Hollow |
| 19:1 | 237-42      | 1    | O-Ring           |
| 20   | 65-2770     | 1    | Washer           |
| 21   | 99-3589     | 1    | Seal Kit         |
| 21:1 | 58-6290     | 2    | Poppet           |
| 21:2 | 58-6320     | 1    | Wiper            |
| 21:3 | 60-5720     | 2    | O-Ring           |
| 21:4 | 58-6340     | 2    | O-Ring           |
| 21:5 | 93-6314     | 1    | O-Ring           |
| 21:6 | 58-6370     | 2    | Washer           |
| 21:7 | 58-6450     | 2    | O-Ring           |
| 21:8 | 58-6460     | 1    | Ring-Retaining   |
| 21:9 |             | 1    | O-Ring ●         |

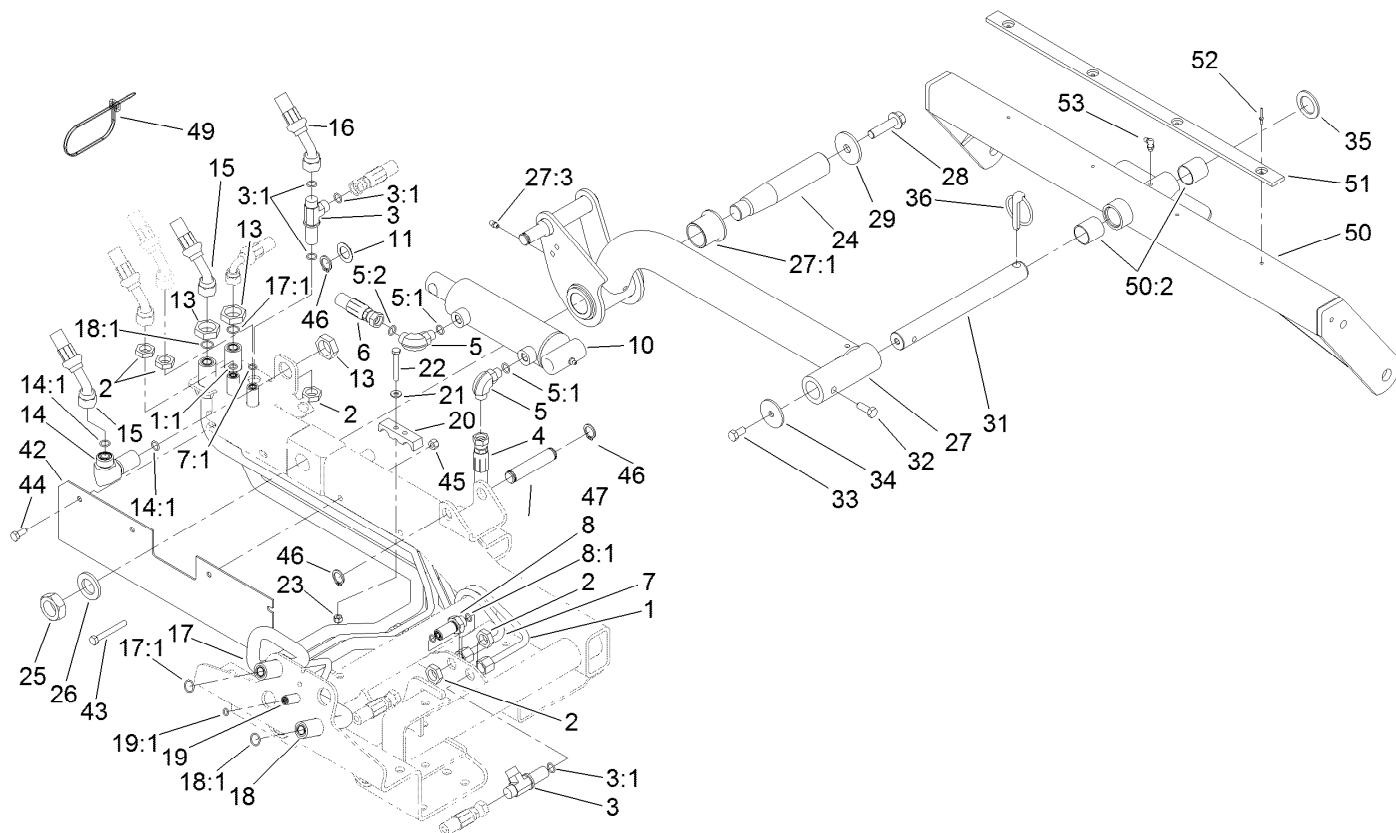
● Not serviced separately



## Rear Lift Arm Assembly

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 1    | 104-0402    | 1    | Tube-HYD                   |
| 1:1  | 237-22      | 1    | O-Ring                     |
| 2    | 340-70      | 5    | Nut-Lock                   |
| 3    | 340-68      | 2    | Fitting-Tee, Bulkhead      |
| 3:1  | 237-22      | 3    | O-Ring                     |
| 4    | 104-0407    | 1    | Hose-HYD                   |
| 5    | 340-77      | 2    | Fitting-Elbow, 90 DEG      |
| 5:1  | 237-22      | 1    | O-Ring                     |
| 5:2  | 237-42      | 1    | O-Ring                     |
| 6    | 99-3579     | 1    | Hose-HYD                   |
| 7    | 104-0403    | 1    | Tube ASM                   |
| 7:1  | 237-22      | 1    | O-Ring                     |
| 8    | 340-71      | 1    | Fitting-Straight, Bulkhead |
| 8:1  | 237-22      | 2    | O-Ring                     |
| 10   | 112-9916    | 1    | HYD Cylinder ASM           |
| 11   | 3-6498      | 1    | Washer-Thrust              |
| 13   | 340-74      | 3    | Nut-Lock, Bulkhead         |
| 14   | 340-72      | 1    | Fitting-Bulkhead, 90 DEG   |
| 14:1 | 237-65      | 2    | O-Ring                     |
| 15   | 108-9004    | 2    | Hose ASM                   |
| 16   | 115-3412    | 1    | Hose-HYD                   |

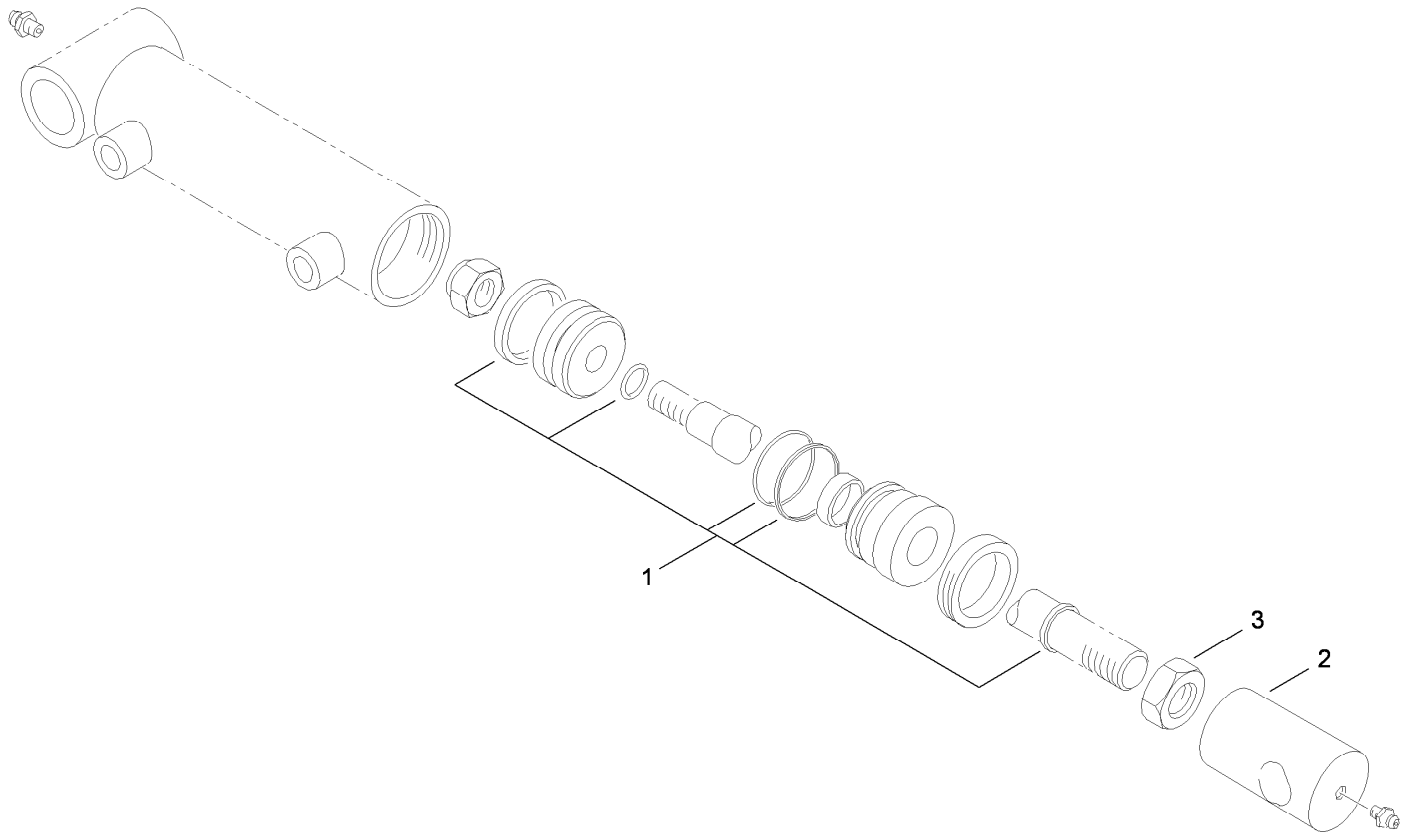
| Ref. | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 17   | 104-0401    | 1    | Tube ASM                  |
| 17:1 | 237-65      | 2    | O-Ring                    |
| 18   | 104-0400    | 1    | Tube ASM                  |
| 18:1 | 237-65      | 2    | O-Ring                    |
| 19   | 104-0404    | 1    | Tube ASM                  |
| 19:1 | 237-21      | 1    | O-Ring                    |
| 20   | 99-3641     | 2    | Clamp-Tube                |
| 21   | 3256-22     | 4    | Washer-Flat               |
| 22   | 321-11      | 2    | Screw-HH                  |
| 23   | 3296-42     | 2    | Nut-Lock, NI              |
| 24   | 95-8990     | 1    | Shaft-Pivot, Rear         |
| 25   | 3220-9      | 1    | Nut-Jam                   |
| 26   | 86-1480     | 1    | Washer                    |
| 27   | 115-3473    | 1    | Rear Liftarm ASM          |
| 27:1 | 69-6470     | 2    | Bushing-Caster            |
| 27:3 | 302-5       | 1    | Fitting-Grease            |
| 28   | 3234-27     | 1    | Screw-HHF                 |
| 29   | 75-7730     | 1    | Washer-Thrust             |
| 31   | 100-4944    | 1    | Shaft-Pivot, Cutting Unit |
| 32   | 323-6       | 1    | Screw-HH                  |
| 33   | 323-4       | 1    | Screw-HH                  |



## Rear Lift Arm Assembly (continued)

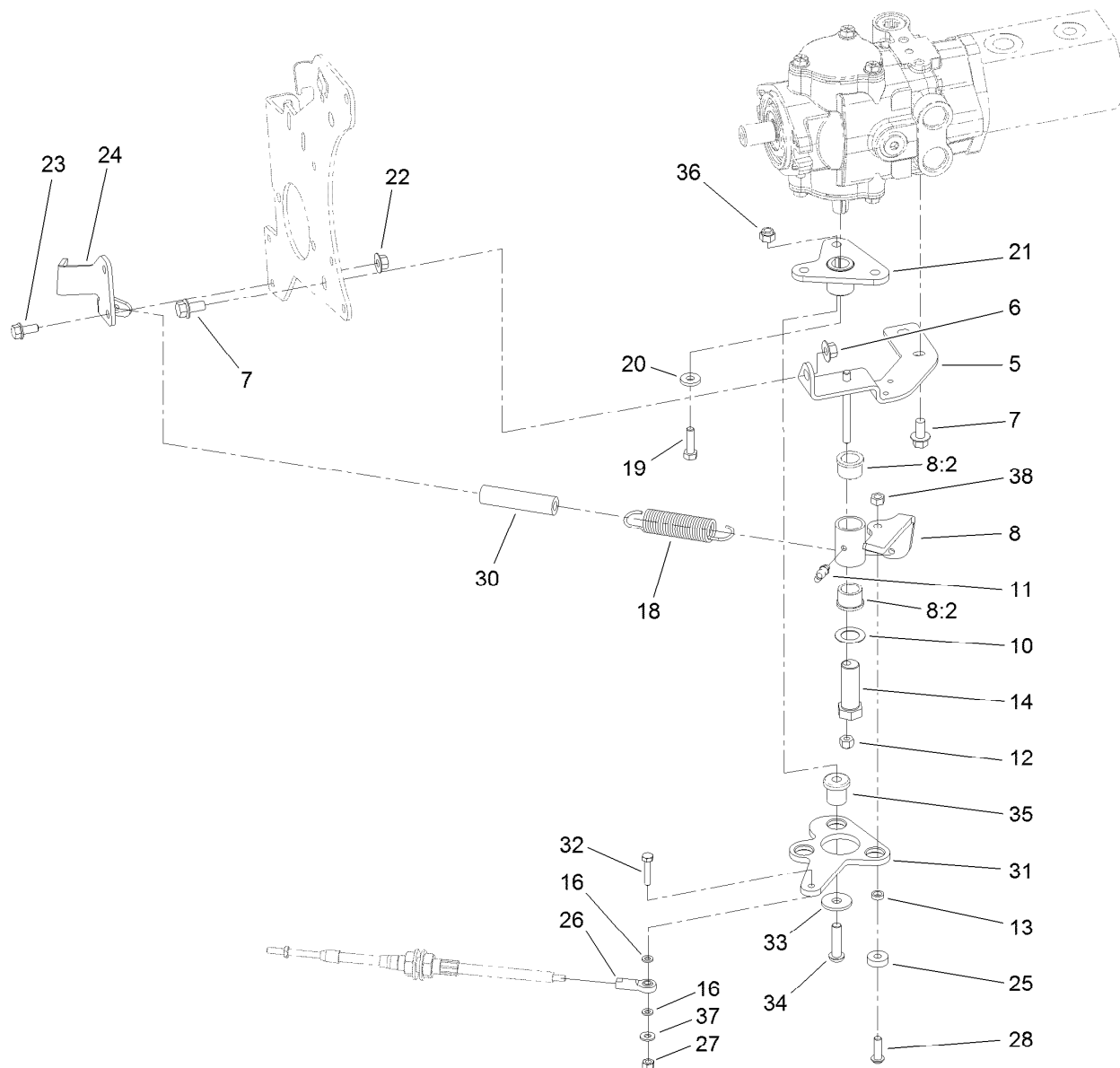
| Ref. | Part Number | Qty. | Description    |
|------|-------------|------|----------------|
| 34   | 63-7400     | 1    | Washer-Rebound |
| 35   | 3-6781      | 1    | Washer-Thrust  |
| 36   | 283-71      | 1    | Pin-Lynch      |
| 42   | 104-0453-03 | 1    | Guard          |
| 43   | 322-12      | 2    | Screw-HH       |
| 44   | 322-3       | 2    | Screw-HH       |
| 45   | 32128-20    | 4    | Nut-HF         |
| 46   | 32120-93    | 3    | Ring-Retaining |

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 47   | 95-8575     | 1    | Pin-Clevis             |
| 49   | 3334-945    | 2    | Tie-Cable              |
| 50   | 104-4229    | 1    | Rear Carrier Frame ASM |
| 50:2 | 108-4000    | 2    | Bushing                |
| 51   | 95-8936     | 1    | Strip-Wear             |
| 52   | 3269-18     | 4    | Rivet-Blind            |
| 53   | 302-60      | 1    | Fitting-Grease         |



## Hydraulic Cylinder Assembly No. 112-9916

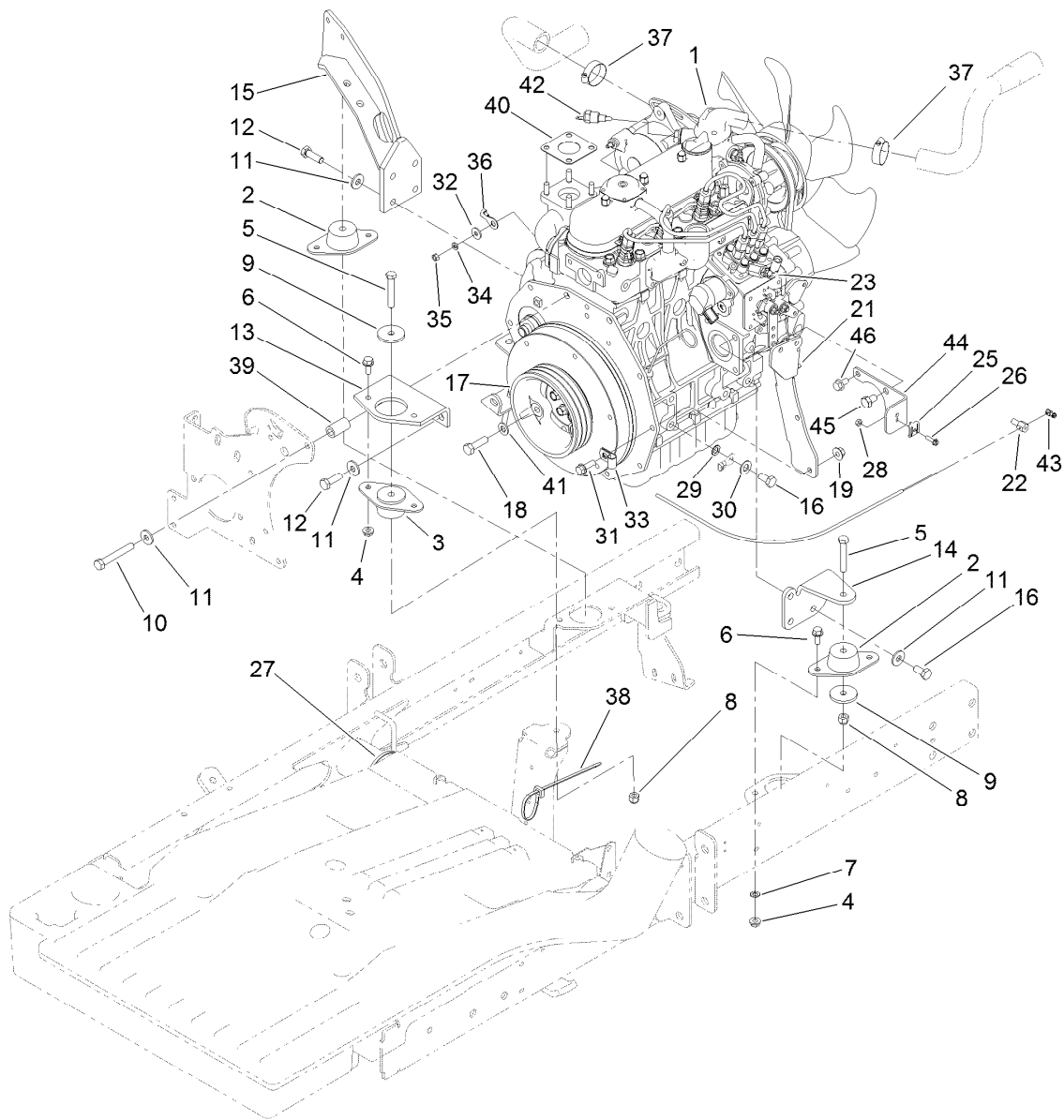
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 115-3410           | 1           | Seal Kit           |
| 2           | 108-9035           | 1           | Clevis             |
| 3         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



## Neutral Arm Assembly

| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 5    | 95-8960-03  | 1    | Bracket-Neutral  |
| 6    | 32128-43    | 1    | Nut-Flange       |
| 7    | 3234-1      | 3    | Screw-HHF        |
| 8    | 104-0422    | 1    | Neutral Arm ASM  |
| 8:2  | 256-113     | 2    | Bushing-Flange   |
| 10   | 3-6498      | 1    | Washer-Thrust    |
| 11   | 302-60      | 1    | Fitting-Grease   |
| 12   | 3296-29     | 1    | Nut-Lock, NI     |
| 13   | 100-4817    | 1    | Spacer           |
| 14   | 76-8640     | 1    | Stud-Traction    |
| 16   | 33093-00    | 2    | Washer-Flat      |
| 18   | 94-1369     | 1    | Spring-Extension |
| 19   | 3210-6      | 1    | Screw-HH         |
| 20   | 88-7200     | 1    | Washer-Flat      |
| 21   | 120-5566    | 1    | Hub              |
| 22   | 32128-44    | 2    | Nut              |

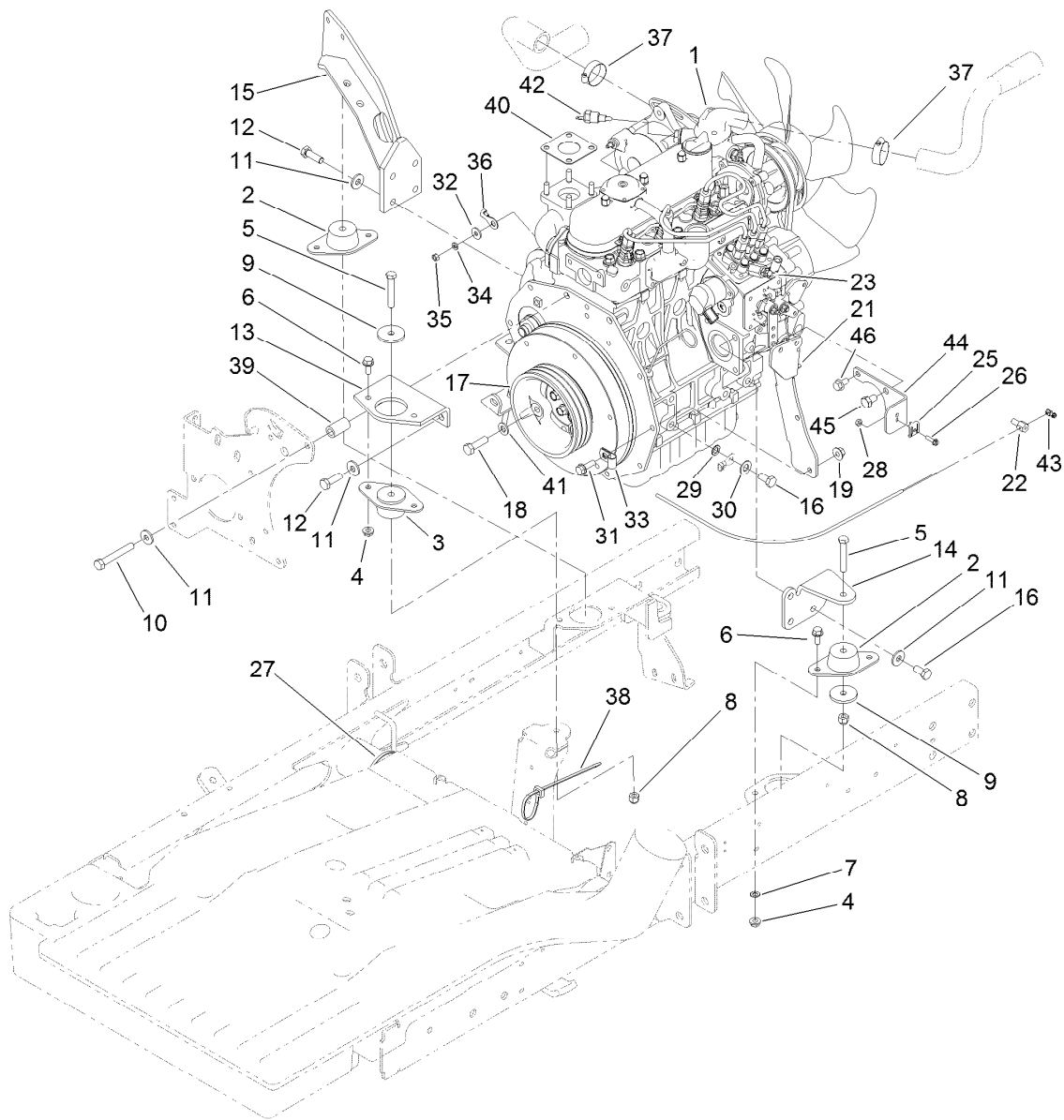
| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 23   | 3234-5      | 2    | Screw-HHF              |
| 24   | 104-0464-03 | 1    | Bracket-Support, Cable |
| 25   | 251-259     | 1    | Bearing-Ball           |
| 26   | 2411-41     | 1    | Rod End-Ball Joint     |
| 27   | 3296-42     | 1    | Nut-Lock, NI           |
| 28   | 3274-104    | 1    | Screw-HSBH             |
| 30   | 99-3556     | 1    | Hose                   |
| 31   | 99-3594-03  | 1    | Lever-Pump             |
| 32   | 321-8       | 1    | Screw-HH               |
| 33   | 2844        | 3    | Washer                 |
| 34   | 95-3857     | 3    | Screw-HSBH             |
| 35   | 63-9750     | 3    | Mount                  |
| 36   | 3296-39     | 3    | Nut-Lock, NI           |
| 37   | 3256-22     | 1    | Washer-Flat            |
| 38   | 32153-3     | 1    | Nut-Hex, Side Deform   |



## Engine Assembly

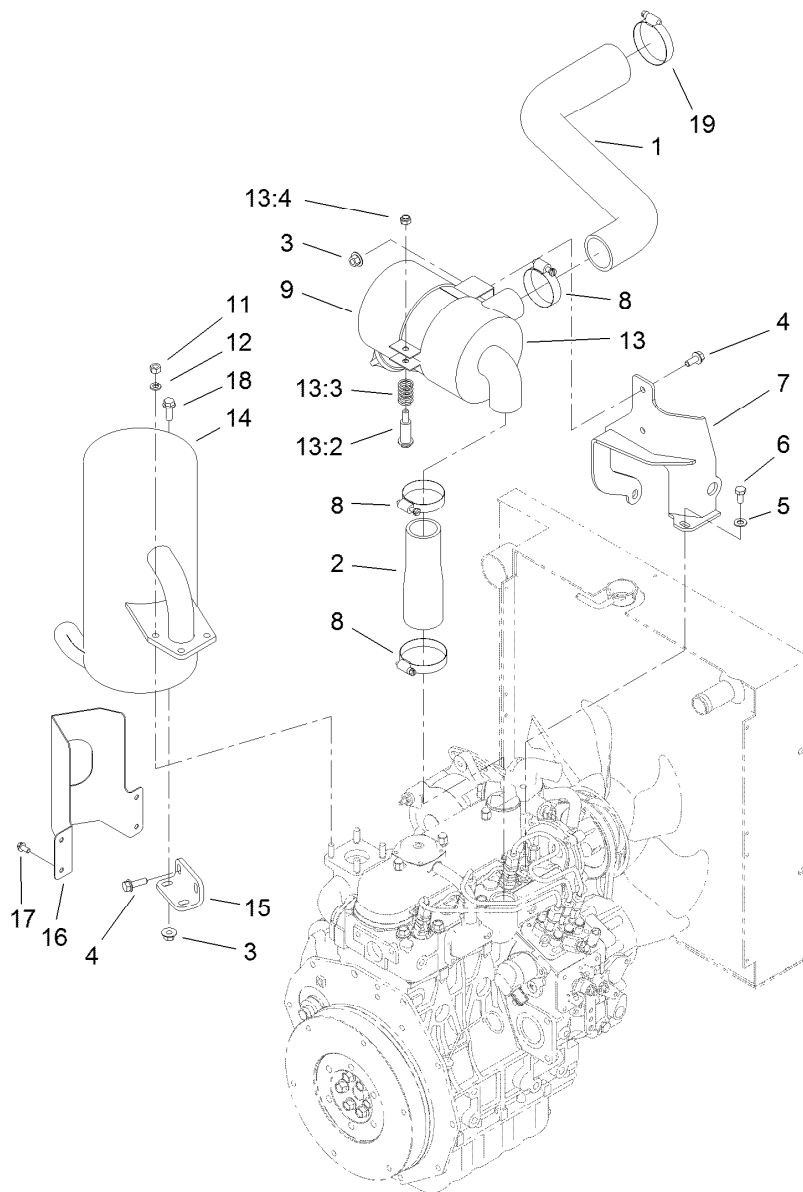
| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 1    | 127-9662    | 1    | Engine-Kubota, D1105       |
| 2    | 121-9076    | 2    | Mount-Engine               |
| 3    | 93-5265     | 1    | Mount-Engine               |
| 4    | 32128-20    | 6    | Nut-HF                     |
| 5    | 323-11      | 3    | Screw-HH                   |
| 6    | 3234-5      | 6    | Screw-HHF                  |
| 7    | 3255-8      | 1    | Washer-Lock                |
| 8    | 3296-39     | 3    | Nut-Lock, NI               |
| 9    | 80-8560     | 3    | Washer-Hardened            |
| 10   | 42-9370     | 1    | Screw-HH                   |
| 11   | 80-6990     | 9    | Washer-Hardened            |
| 12   | 95-8812     | 5    | Screw-HH                   |
| 13   | 99-3618-03  | 1    | Mount-Engine, Front        |
| 14   | 95-8937-03  | 1    | Mount-Engine, LH           |
| 15   | 100-4838-03 | 1    | Mount-Engine               |
| 16   | 63-7790     | 4    | Screw-Cap                  |
| 17   | 99-3626     | 1    | Pulley-3V                  |
| 18   | 56-2140     | 3    | Screw-HH                   |
| 19   | 32128-44    | 2    | Nut                        |
| 21   | 115-3487-03 | 1    | Bracket-Mount, Fuel Filter |
| 22   | 98-9311     | 1    | Swivel-Throttle            |

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 23   | 3296-20     | 1    | Nut-Lock, NI               |
| 25   | 81-1690     | 1    | Clamp-Cable                |
| 26   | 32105-13    | 1    | Screw-HWH                  |
| 27   | 3290-379    | 2    | Tie-Cable                  |
| 28   | 3296-2      | 1    | Nut-Lock, NI               |
| 29   | 3255-9      | 1    | Washer-Lock                |
| 30   | 3256-25     | 1    | Washer-Flat                |
| 31   | 3234-17     | 2    | Screw-HHF                  |
| 32   | 3256-78     | 1    | Washer-Flat                |
| 33   | 2412-10     | 1    | Clamp-R                    |
| 34   | 43-5930     | 1    | Washer-Lock, Spring        |
| 35   | 48-7890     | 1    | Nut-Hex                    |
| 36   | 99-3441     | 1    | Harness-Wire, Fusible Link |
| 37   | 2412-34     | 2    | Clamp-Hose                 |
| 38   | 3290-378    | 14   | Tie-Cable                  |
| 39   | 95-8736     | 1    | Spacer                     |
| 40   | 98-9611     | 1    | Gasket                     |
| 41   | 3256-24     | 3    | Washer-Flat                |
| 42   | 106-7772    | 1    | Thermoswitch               |
| 43   | 112-9919    | 1    | Stop-Cable, Throttle       |
| 44   | 110-9009-03 | 1    | Bracket-Cable, Throttle    |



## Engine Assembly (continued)

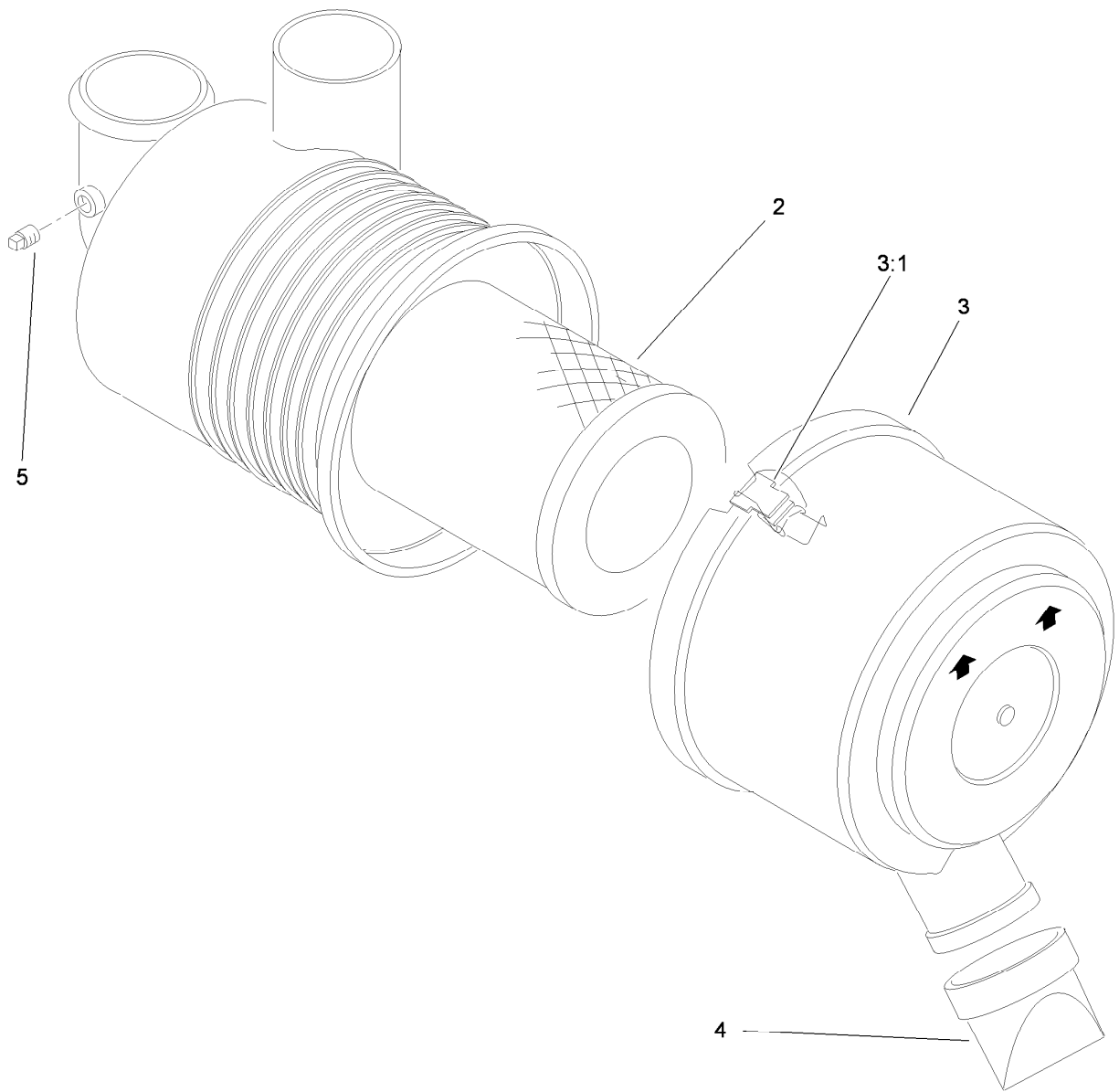
| Ref. | Part Number | Qty. | Description |
|------|-------------|------|-------------|
| 45   | 70-8470     | 1    | Screw-HH    |
| 46   | 33104-016   | 1    | Screw-HHF   |



## Air Cleaner and Muffler Assembly

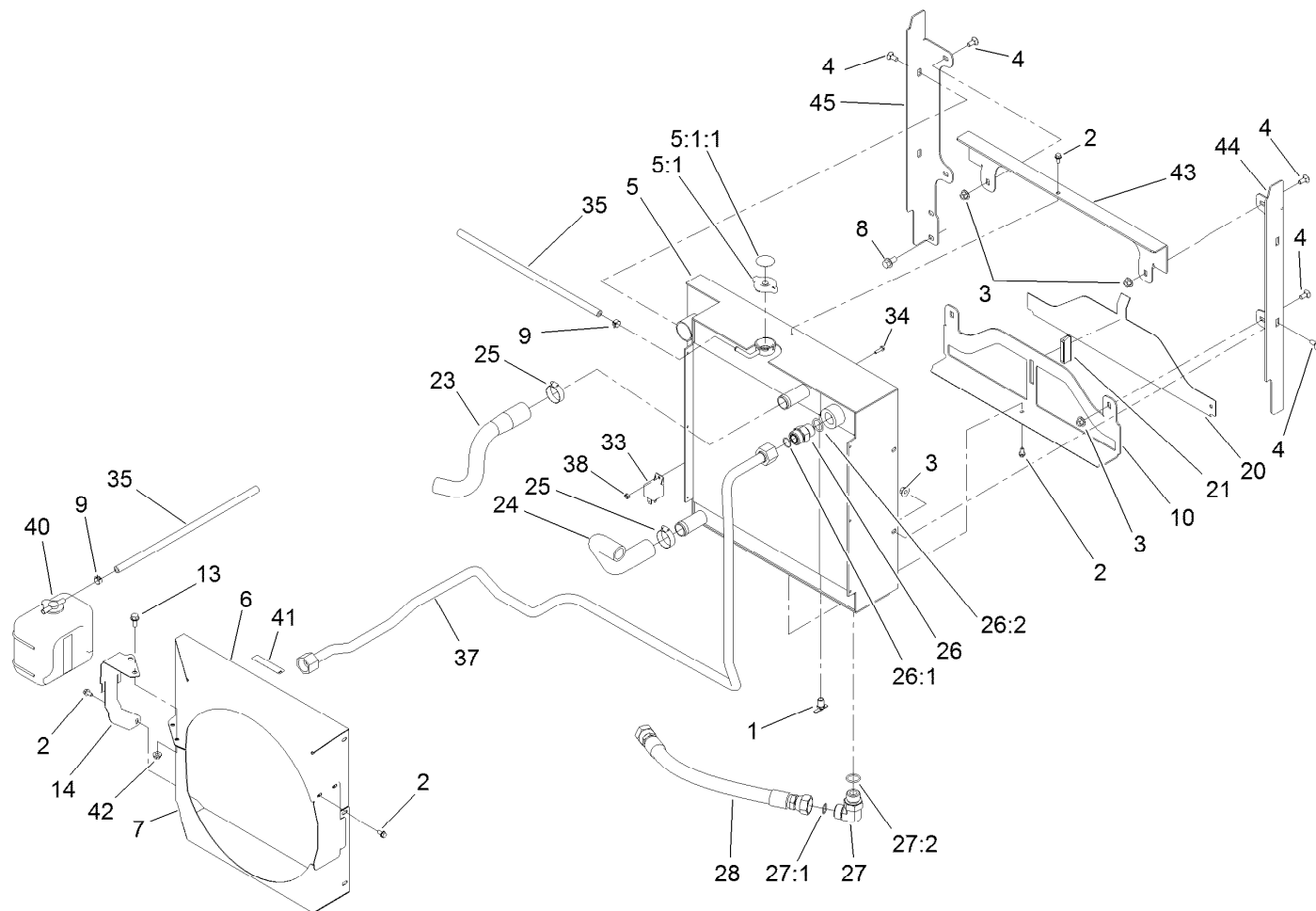
| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 120-3354    | 1    | Hose-Air Inlet, Upper |
| 2    | 95-8947     | 1    | Hose-Air Inlet, Lower |
| 3    | 32128-44    | 6    | Nut                   |
| 4    | 3234-5      | 3    | Screw-HHF             |
| 5    | 3256-23     | 2    | Washer-Plain          |
| 6    | 33114-016   | 2    | Screw-HH              |
| 7    | 99-3355-03  | 1    | Bracket-Filter, Air   |
| 8    | 2412-92     | 3    | Clamp-Hose            |
| 9    | 93-2190     | 1    | Air Cleaner ASM       |
| 11   | 33014-00    | 4    | Nut-Hex               |
| 12   | 3253-4      | 4    | Washer-Lock           |

| Ref. | Part Number | Qty. | Description                   |
|------|-------------|------|-------------------------------|
| 13   | 93-2191     | 1    | Air Cleaner Mounting Band ASM |
| 13:2 | 94-3653     | 1    | Bolt                          |
| 13:3 | 94-3654     | 1    | Spring                        |
| 13:4 | 48-9510     | 1    | Nut                           |
| 14   | 104-4834    | 1    | Muffler                       |
| 15   | 95-8943-03  | 1    | Bracket-Muffler               |
| 16   | 99-3425-03  | 1    | Guard-Exhaust                 |
| 17   | 32144-4     | 4    | Screw-HWH                     |
| 18   | 3234-17     | 3    | Screw-HHF                     |
| 19   | 2412-130    | 1    | Clamp-Hose                    |



## Air Cleaner Assembly No. 93-2190

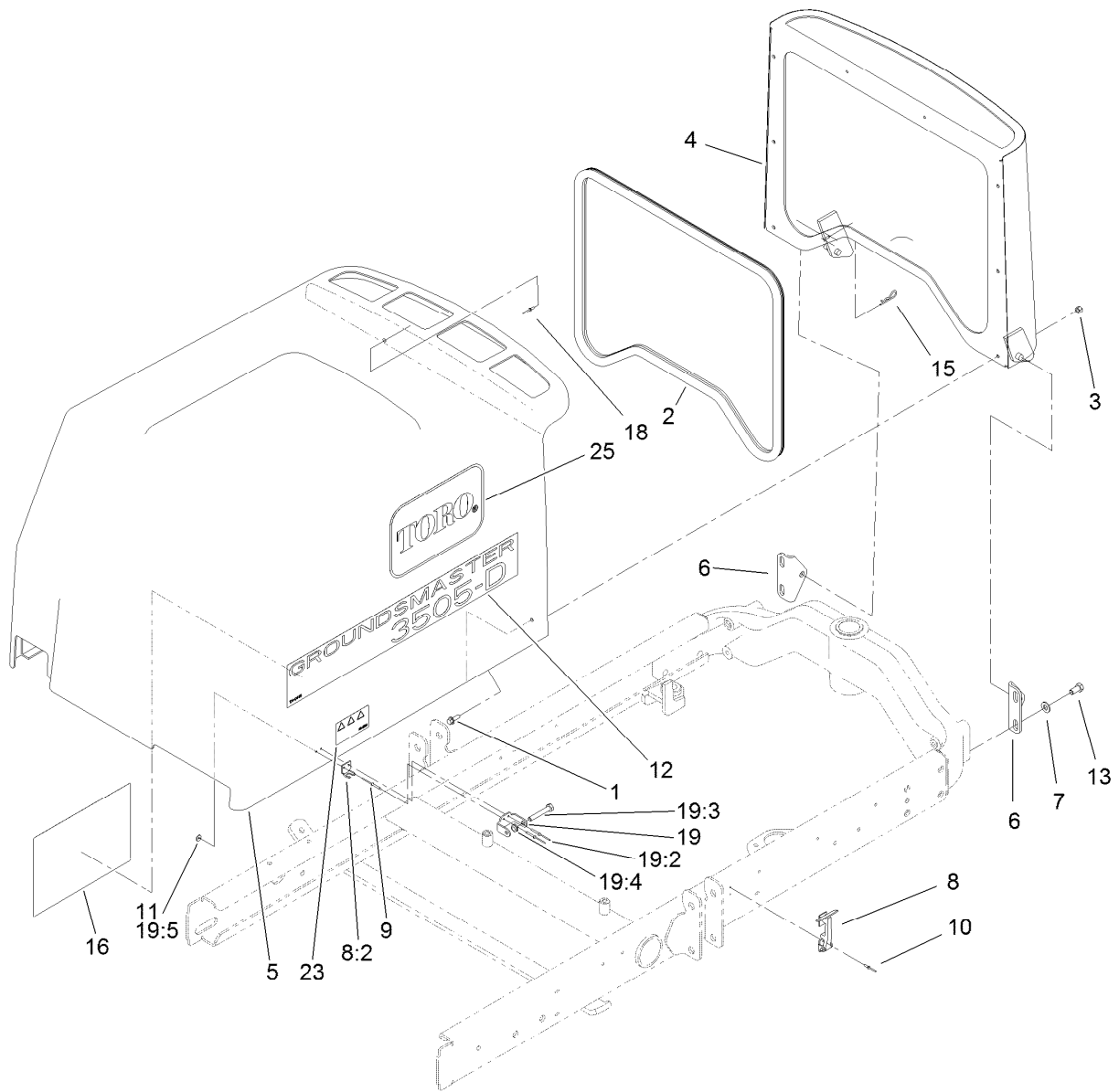
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 2           | 108-3811           | 1           | Filter-Air         |
| 3           | 94-3652            | 1           | Cover ASM          |
| 3:1       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



## Radiator Assembly

| Ref.  | Part Number | Qty. | Description                    |
|-------|-------------|------|--------------------------------|
| 1     | 304-46      | 1    | Draincock                      |
| 2     | 32104-116   | 10   | Screw-HWHTF                    |
| 3     | 32128-44    | 8    | Nut                            |
| 4     | 3230-1      | 8    | Bolt-CARR                      |
| 5     | 119-2028    | 1    | Radiator And Oil Cooler<br>ASM |
| 5:1   | 115-7766    | 1    | Cap-Radiator                   |
| 5:1:1 | 106-6755    | 1    | Decal-Cap, Radiator            |
| 6     | 121-3556-03 | 1    | Shroud-Fan, Upper              |
| 7     | 121-3552-03 | 1    | Shroud-Fan, Lower              |
| 8     | 3234-1      | 4    | Screw-HHF                      |
| 9     | 92-2379     | 2    | Clamp-Hose                     |
| 10    | 120-3530-03 | 1    | Bracket-Radiator, Bottom       |
| 13    | 3234-5      | 2    | Screw-HHF                      |
| 14    | 121-3557-03 | 1    | Bracket-Reservoir              |
| 20    | 95-8702-03  | 1    | Shield-Radiator, Lower         |
| 21    | 99-3497     | 1    | Magnet                         |
| 23    | 121-3558    | 1    | Hose-Radiator, Upper           |
| 24    | 120-3399    | 1    | Hose-Radiator, Lower           |

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 25   | 2412-34     | 2    | Clamp-Hose            |
| 26   | 340-9       | 1    | Fitting-STR           |
| 26:1 | 237-58      | 1    | O-Ring                |
| 26:2 | 237-81      | 1    | O-Ring                |
| 27   | 340-142     | 1    | Fitting-Elbow, 90 DEG |
| 27:1 | 237-58      | 1    | O-Ring                |
| 27:2 | 237-81      | 1    | O-Ring                |
| 28   | 92-7536     | 1    | Hose-HYD              |
| 33   | 99-7435     | 1    | Relay                 |
| 34   | 32105-13    | 1    | Screw-HWH             |
| 35   | 109-0274    | 1    | Hose-Fuel             |
| 37   | 121-3568    | 1    | Tube-HYD              |
| 38   | 3296-2      | 1    | Nut-Lock, NI          |
| 40   | 104-9318    | 1    | Bottle-Overflow       |
| 41   | 93-6681     | 1    | Decal-Warning, Fan    |
| 42   | 32128-20    | 2    | Nut-HF                |
| 43   | 120-3529-03 | 1    | Bracket-Radiator, Top |
| 44   | 120-3531-03 | 1    | Bracket-Radiator, LH  |
| 45   | 120-3532-03 | 1    | Bracket-Radiator, RH  |

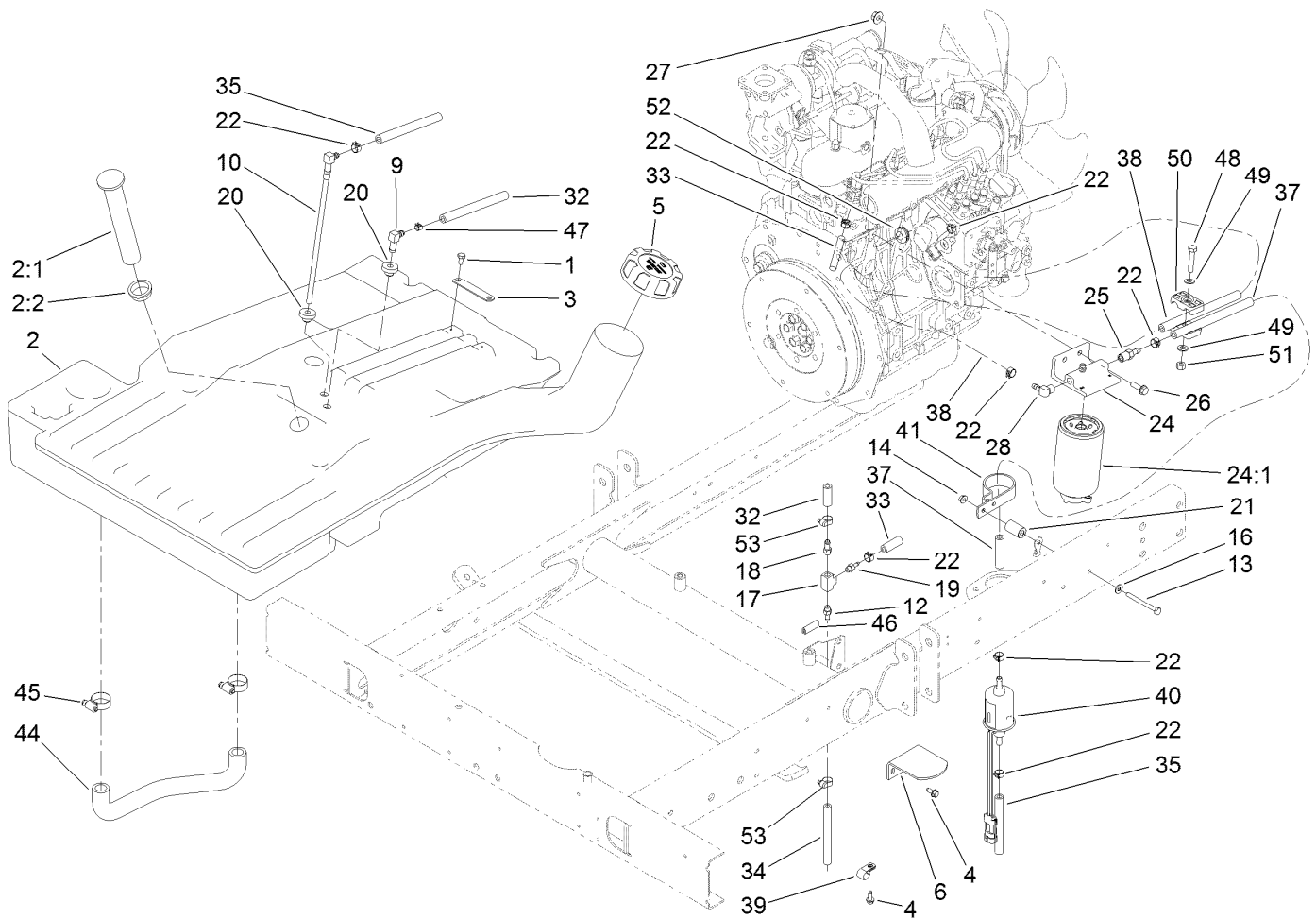


## Hood Assembly

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 1    | 3234-4      | 6    | Screw-HHF              |
| 2    | 100-4932    | 1    | Trim-Seal              |
| 3    | 3296-42     | 6    | Nut-Lock, NI           |
| 4    | 104-4853-03 | 1    | Screen-Hood            |
| 5    | 100-4855    | 1    | Hood                   |
| 5:1  | 106-8115    | 1    | Heat Tape Repair Kit ● |
| 6    | 95-8728     | 2    | Bracket-Pivot, Hood    |
| 7    | 3256-24     | 8    | Washer-Flat            |
| 8    | 59-9740     | 2    | Flex Draw Latch ASM    |
| 8:2  | 249-40      | 1    | Keeper                 |
| 9    | 107-0333    | 4    | Rivet-Pop              |
| 10   | 3290-55     | 4    | Rivet-Pop              |
| 11   | 3269-10     | 4    | Washer-Back            |

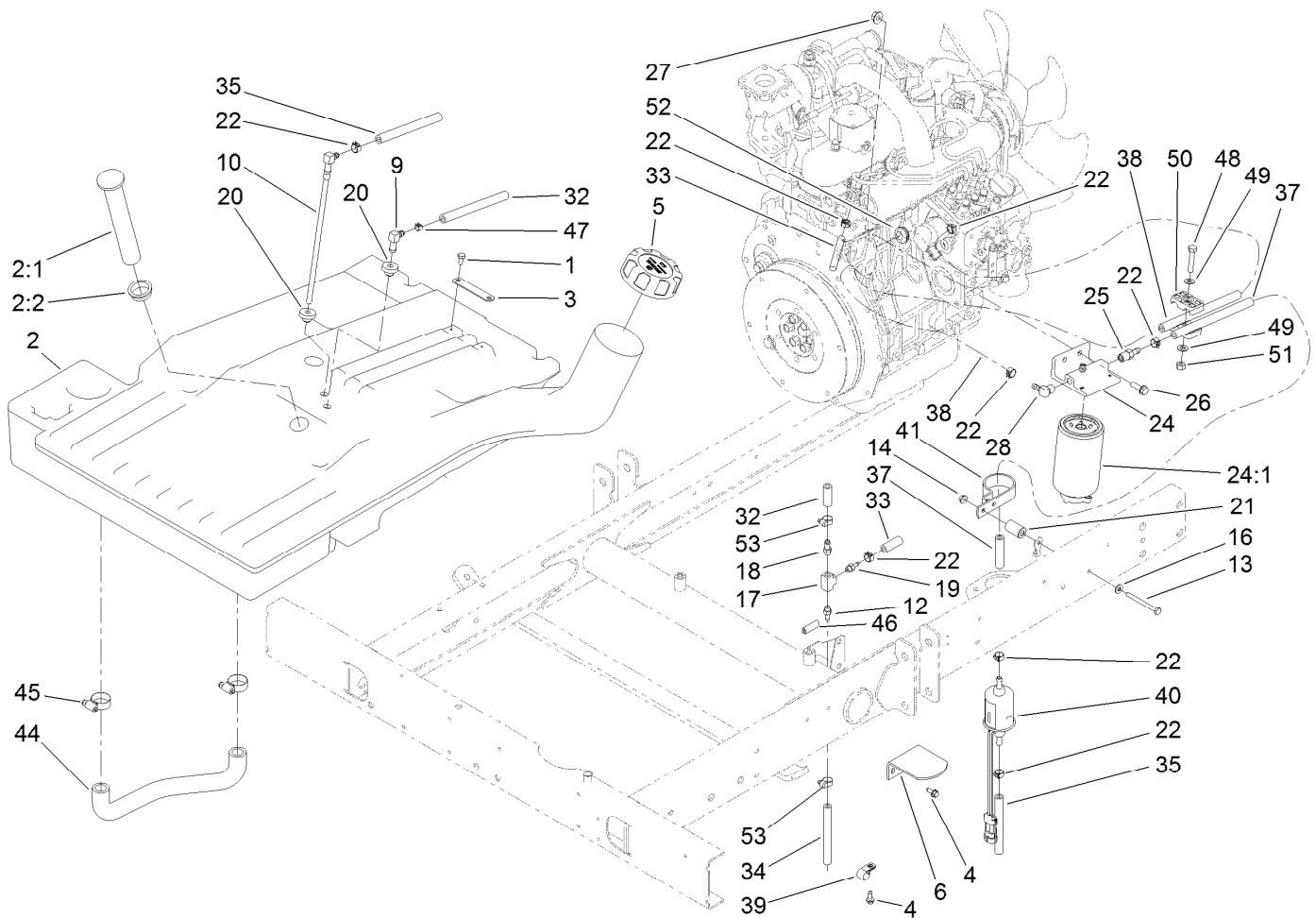
| Ref. | Part Number | Qty. | Description   |
|------|-------------|------|---------------|
| 12   | 108-9007    | 2    | Decal-Hood    |
| 13   | 323-6       | 4    | Screw-HH      |
| 15   | 3290-467    | 1    | Pin-Hair      |
| 16   | 117-5103    | 1    | Decal-Service |
| 18   | 3269-21     | 2    | Rivet-Pop     |
| 19   | 119-2004    | 1    | CE Latch Kit  |
| 19:2 | 107-0333    | 2    | Rivet-Pop     |
| 19:3 | 322-10      | 1    | Screw-HH      |
| 19:4 | 3296-47     | 1    | Nut-Lock,NI   |
| 19:5 | 3269-10     | 2    | Washer-Back   |
| 23   | 106-6754    | 1    | Decal-Danger  |
| 25   | 66-6140     | 2    | Decal         |

● Not illustrated



## Fuel System Assembly

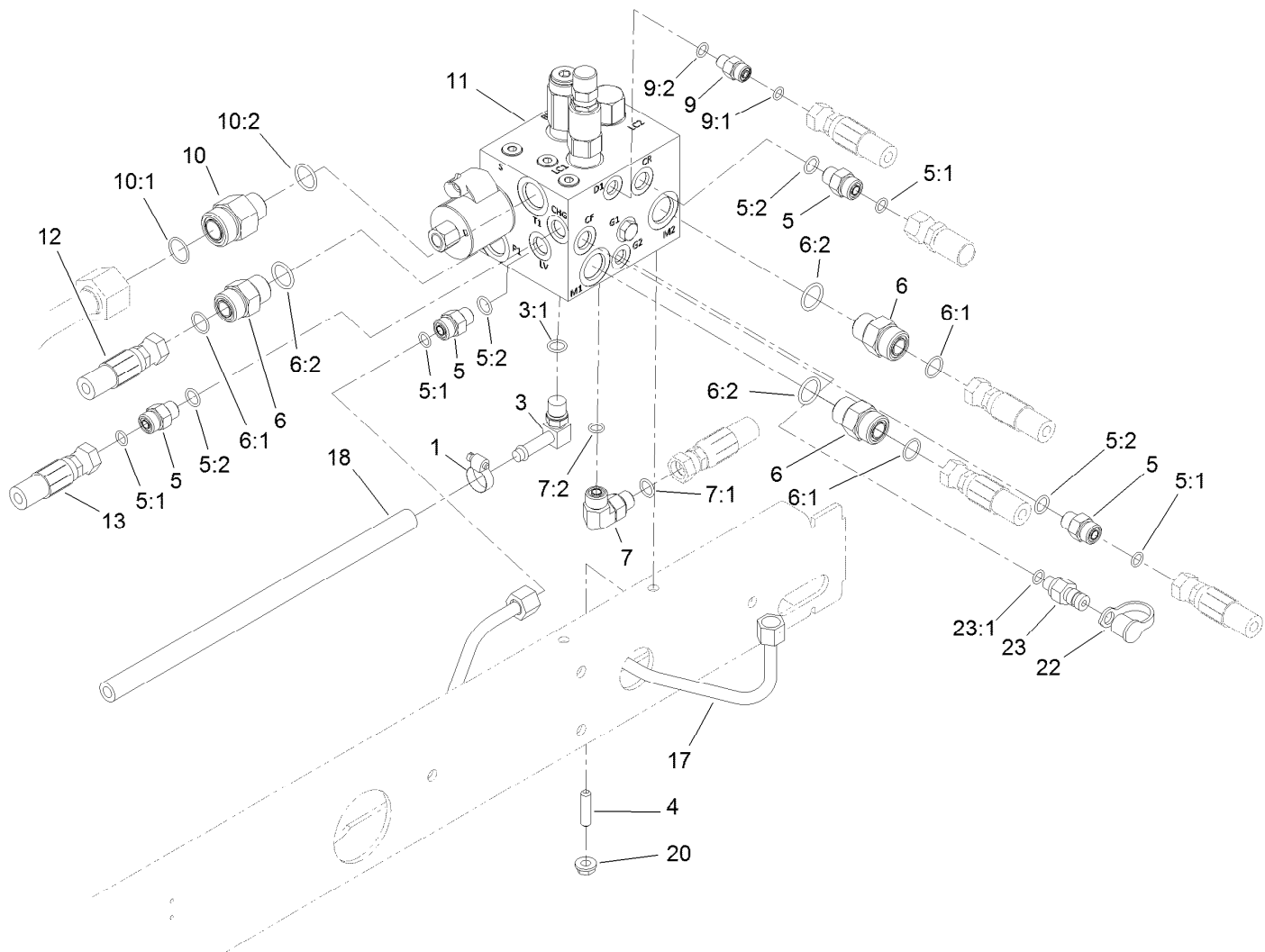
| Ref. | Part Number | Qty. | Description           | Ref. | Part Number | Qty. | Description                |
|------|-------------|------|-----------------------|------|-------------|------|----------------------------|
| 1    | 321-2       | 2    | Screw-HH              | 24:1 | 110-9049    | 1    | Filter-Spin On, Fuel/Water |
| 2    | 105-7865    | 1    | Tank-Fuel             | 25   | 353-783     | 1    | Fitting-STR                |
| 2:1  | 95-8971     | 1    | Gauge-Fuel            | 26   | 3234-17     | 2    | Screw-HHF                  |
| 2:2  | 95-8972     | 1    | Grommet               | 27   | 32128-44    | 2    | Nut                        |
| 3    | 95-8881     | 1    | Strap-Line, Fuel      | 28   | 353-781     | 1    | Fitting-HYD, 90            |
| 4    | 32144-10    | 3    | Screw-HWH             | 32   | 110-6187    | 1    | Hose-Fuel                  |
| 5    | 114-5064    | 1    | Cap-Diesel            | 33   | 110-8751    | 1    | Hose-Fuel                  |
| 6    | 95-8968-03  | 1    | Support-Tank, Fuel    | 34   | 110-5701    | 1    | Hose-Fuel                  |
| 9    | 46-6550     | 1    | Fitting-Elbow, 90 DEG | 35   | 110-4100    | 1    | Hose-Fuel                  |
| 10   | 110-9689    | 1    | Pipe-Stand            | 37   | 110-4109    | 1    | Hose-Fuel                  |
| 12   | 304-73      | 1    | Fitting-Straight      | 38   | 110-4113    | 1    | Hose-Fuel                  |
| 13   | 321-14      | 1    | Screw-HH              | 39   | 2412-73     | 1    | Clamp-R                    |
| 14   | 32128-33    | 1    | Nut-HF                | 40   | 110-8806    | 1    | Pump-Fuel                  |
| 16   | 3256-22     | 1    | Washer-Flat           | 41   | 110-8817    | 1    | Bracket-Pump, Fuel         |
| 17   | 354-20      | 1    | Fitting-Tee           | 44   | 105-4094    | 1    | Hose-Formed                |
| 18   | 354-21      | 1    | Fitting-Barbed        | 45   | 2412-129    | 2    | Clamp-Hose                 |
| 19   | 354-22      | 1    | Fitting-Barbed        | 46   | 110-8754    | 1    | Trim                       |
| 20   | 46-6560     | 2    | Bushing               | 47   | 2412-80     | 2    | Clamp-Hose                 |
| 21   | 77-3180     | 1    | Spacer                | 48   | 322-8       | 1    | Screw-HH                   |
| 22   | 92-2379     | 7    | Clamp-Hose            | 49   | 3256-23     | 2    | Washer-Plain               |
| 24   | 110-9044    | 1    | Separator-Filter      | 50   | 56-7971     | 2    | Clamp-Tube                 |



## Fuel System Assembly (continued)

| Ref. | Part Number | Qty. | Description  |
|------|-------------|------|--------------|
| 51   | 3296-29     | 1    | Nut-Lock, NI |

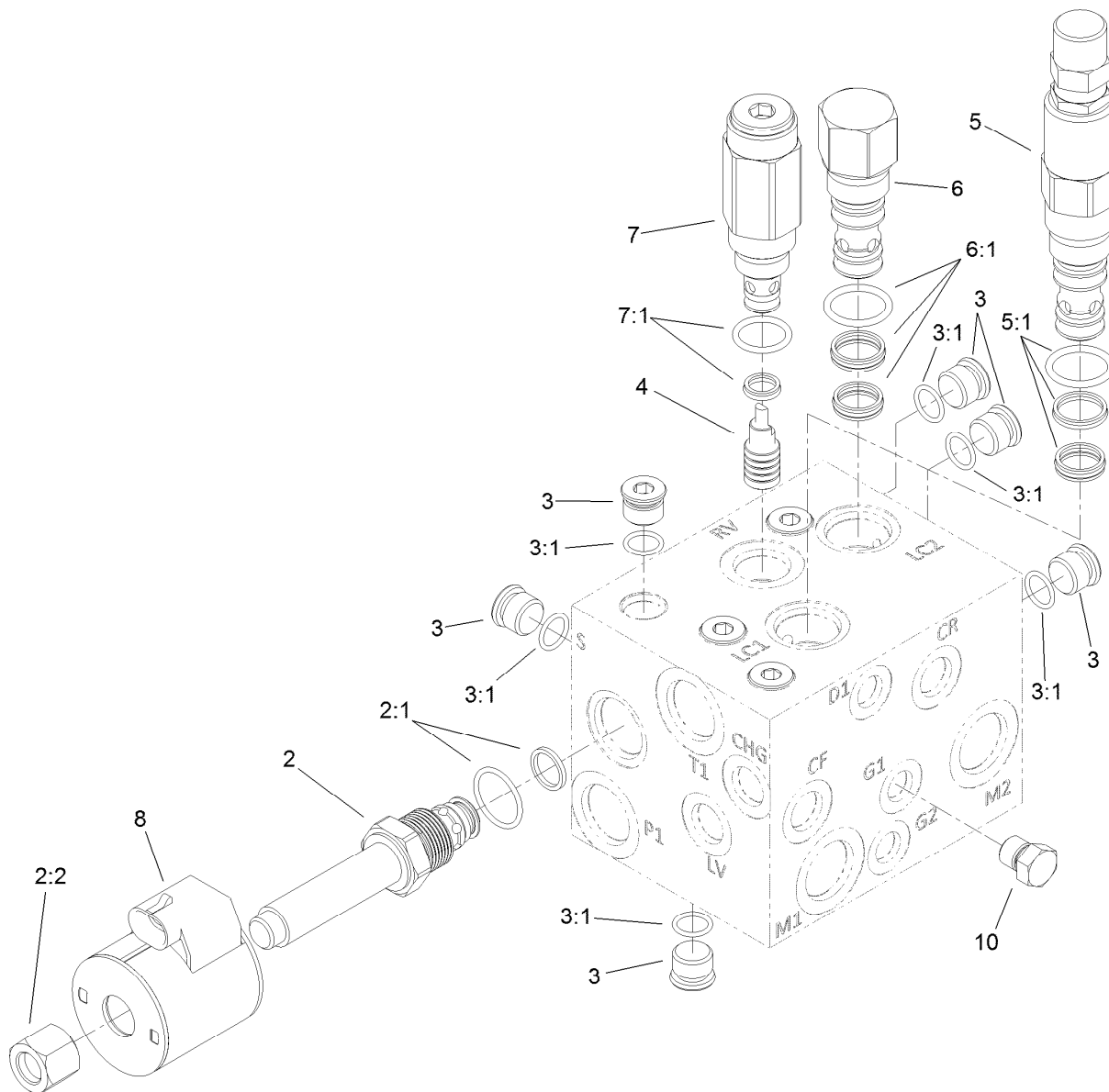
| Ref. | Part Number | Qty. | Description |
|------|-------------|------|-------------|
| 52   | 1-543296    | 1    | Grommet     |
| 53   | 2412-108    | 2    | Clamp-Worm  |



## Manifold Block Installation Assembly

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 2412-36     | 1    | Clamp-Hose            |
| 3    | 100-4887    | 1    | Fitting-Elbow, 90     |
| 3:1  | 237-42      | 1    | O-Ring                |
| 4    | 104-0430    | 2    | Stud                  |
| 5    | 340-2       | 4    | Fitting-Straight      |
| 5:1  | 237-22      | 1    | O-Ring                |
| 5:2  | 237-42      | 1    | O-Ring                |
| 6    | 340-7       | 3    | Fitting-Straight      |
| 6:1  | 237-65      | 1    | O-Ring                |
| 6:2  | 237-80      | 1    | O-Ring                |
| 7    | 340-77      | 1    | Fitting-Elbow, 90 DEG |
| 7:1  | 237-22      | 1    | O-Ring                |
| 7:2  | 237-42      | 1    | O-Ring                |
| 9    | 340-92      | 1    | Fitting-Straight      |

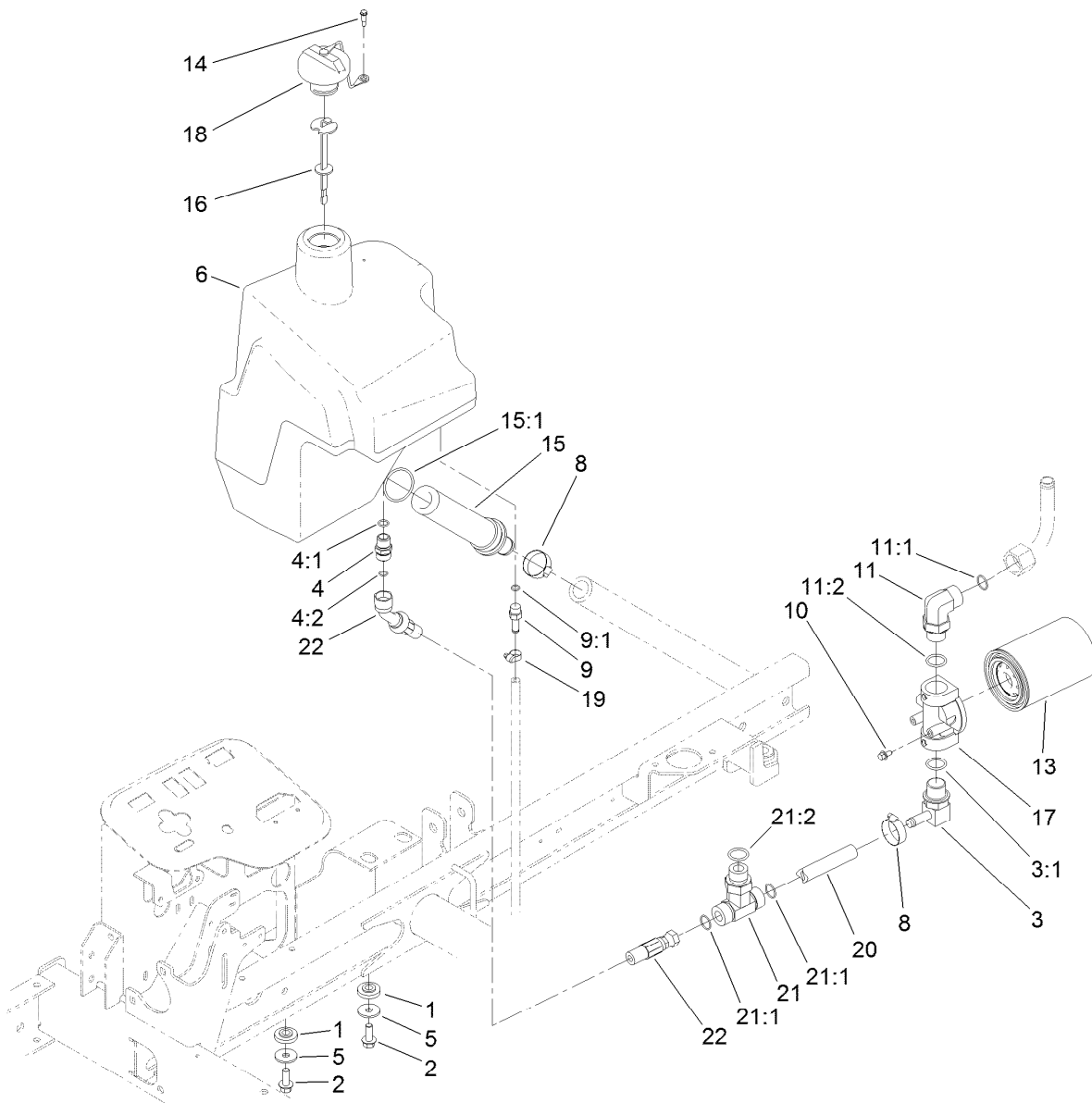
| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 9:1  | 237-78      | 1    | O-Ring           |
| 9:2  | 237-21      | 1    | O-Ring           |
| 10   | 340-66      | 1    | Fitting-Straight |
| 10:1 | 237-80      | 1    | O-Ring           |
| 10:2 | 237-58      | 1    | O-Ring           |
| 11   | 121-3570    | 1    | Manifold ASM     |
| 12   | 104-0488    | 1    | Hose-HYD         |
| 13   | 92-7595     | 1    | Hose-HYD         |
| 17   | 108-9005    | 1    | Tube ASM         |
| 18   | 80-7342     | 1    | Hose-HYD         |
| 20   | 32128-20    | 2    | Nut-HF           |
| 22   | 354-79      | 1    | Cap-Dust         |
| 23   | 354-77      | 1    | Fitting-Quick    |
| 23:1 | 237-78      | 1    | O-Ring           |



## Hydraulic Manifold Assembly No. 121-3570

| Ref. | Part Number | Qty. | Description                       |
|------|-------------|------|-----------------------------------|
| 2    | 110-8768    | 1    | Valve-Relief, Solenoid (3000 PSI) |
| 2:1  | 110-6316    | 1    | Seal Kit ●                        |
| 2:2  | 130-8180    | 1    | Nut-Coil                          |
| 3    | 353-512     | 9    | Plug                              |
| 3:1  | 237-78      | 1    | O-Ring                            |
| 4    | 105-9157    | 1    | Piston-Pilot                      |
| 5    | 119-2011    | 1    | Valve-Logic, Adjustable           |
| 5:1  | 119-2159    | 1    | Seal Kit                          |
| 6    | 105-9153    | 1    | Element-Logic, Vented             |
| 6:1  | 119-2159    | 1    | Seal Kit                          |
| 7    | 112-5259    | 1    | Valve-Relief                      |
| 7:1  | 105-9156    | 1    | Seal Kit                          |
| 8    | 110-6344    | 1    | Coil-12V, DC                      |
| 10   | 117-0115    | 1    | Plug                              |

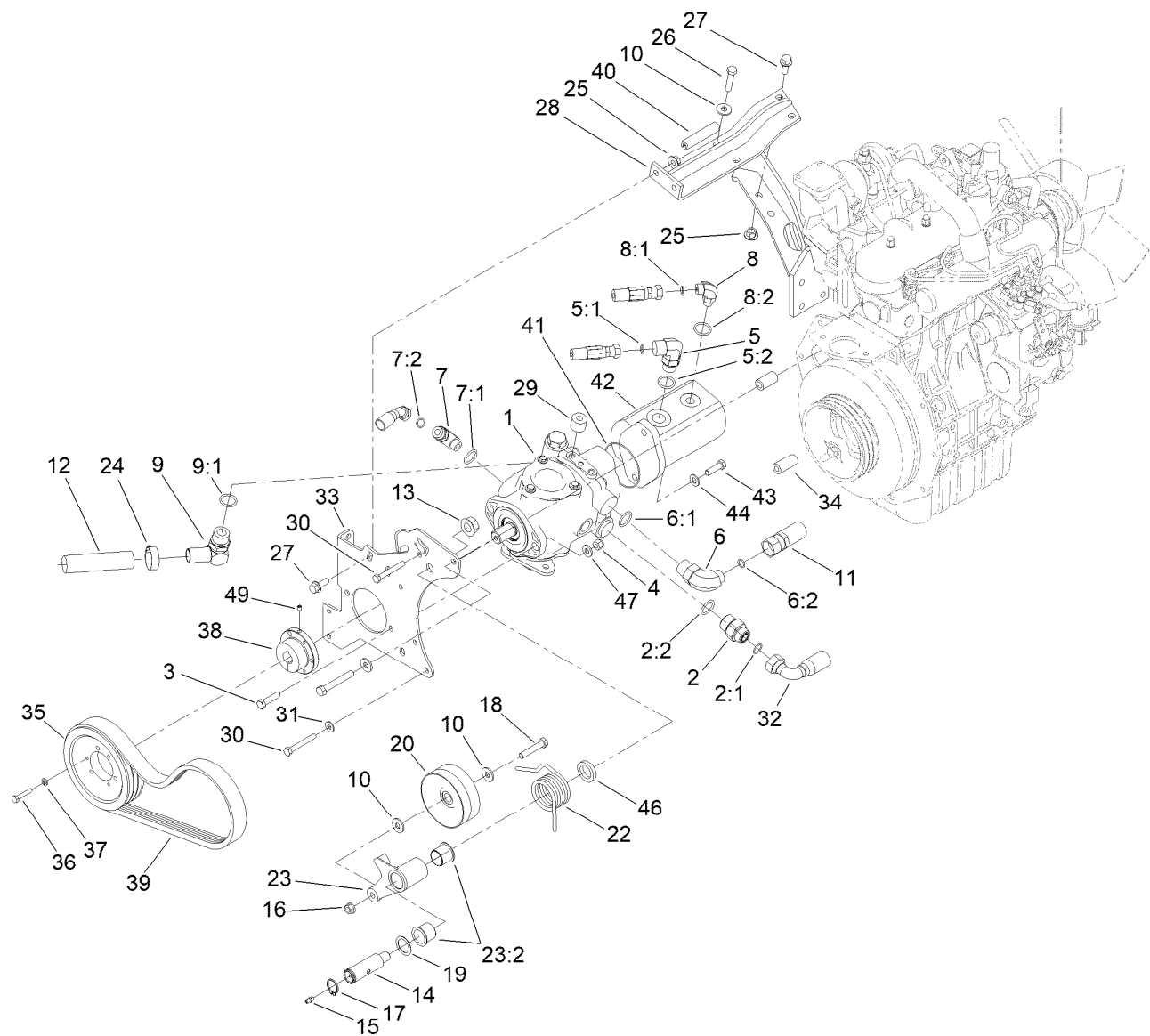
● Not illustrated



## Hydraulic Tank Assembly

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 240-11      | 4    | Bushing-Flange        |
| 2    | 3234-11     | 4    | Screw-HHF             |
| 3    | 353-987     | 1    | Fitting-Elbow, 90     |
| 3:1  | 237-81      | 1    | O-Ring                |
| 4    | 100-4890    | 1    | Fitting-Check         |
| 4:1  | 237-79      | 1    | O-Ring                |
| 4:2  | 237-30      | 1    | O-Ring                |
| 5    | 63-8410     | 4    | Washer                |
| 6    | 104-4840    | 1    | Tank-HYD              |
| 8    | 2412-34     | 2    | Clamp-Hose            |
| 9    | 353-979     | 1    | Fitting-STR           |
| 9:1  | 237-42      | 1    | O-Ring                |
| 10   | 3234-13     | 2    | Screw-HHF             |
| 11   | 340-142     | 1    | Fitting-Elbow, 90 DEG |
| 11:1 | 237-58      | 1    | O-Ring                |

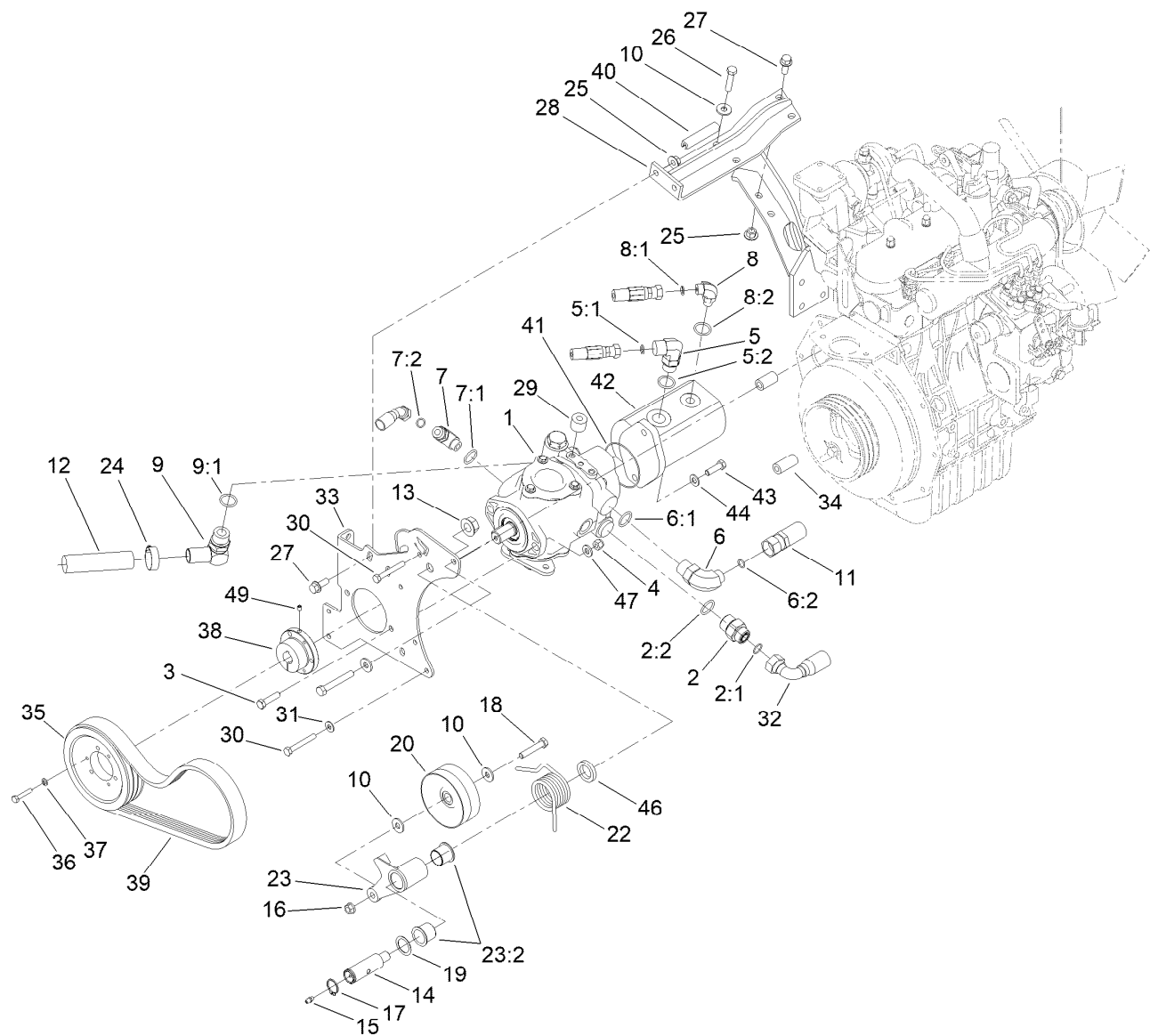
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 11:2 | 237-81      | 1    | O-Ring            |
| 13   | 86-3010     | 1    | Filter-Oil        |
| 14   | 57-5420     | 1    | Screw-Shoulder    |
| 15   | 104-7546    | 1    | Tank Strainer ASM |
| 15:1 | 340-136     | 1    | O-Ring            |
| 16   | 119-6968    | 1    | Dipstick-Oil      |
| 17   | 92-5821     | 1    | Head-Filter       |
| 18   | 93-7160     | 1    | Cap-Oil, HYD      |
| 19   | 2412-36     | 1    | Clamp-Hose        |
| 20   | 104-0486    | 1    | Hose-HYD          |
| 21   | 104-4836    | 1    | Fitting-Tee       |
| 21:1 | 237-58      | 2    | O-Ring            |
| 21:2 | 237-81      | 1    | O-Ring            |
| 22   | 104-0487    | 1    | Hose-HYD          |



## Hydrostat Assembly

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 104-4890    | 1    | Piston Pump ASM       |
| 2    | 340-8       | 1    | Fitting-Straight      |
| 2:1  | 237-65      | 1    | O-Ring                |
| 2:2  | 237-81      | 1    | O-Ring                |
| 3    | 323-8       | 2    | Screw-HH              |
| 4    | 3296-39     | 2    | Nut-Lock, NI          |
| 5    | 340-17      | 1    | Fitting-Elbow, 90 DEG |
| 5:1  | 237-65      | 1    | O-Ring                |
| 5:2  | 237-80      | 1    | O-Ring                |
| 6    | 340-139     | 1    | Fitting-Elbow 90      |
| 6:1  | 237-81      | 1    | O-Ring                |
| 6:2  | 237-65      | 1    | O-Ring                |
| 7    | 340-18      | 1    | Fitting-HYD, 90 DEG   |
| 7:1  | 237-79      | 1    | O-Ring                |
| 7:2  | 237-22      | 1    | O-Ring                |
| 8    | 340-77      | 1    | Fitting-Elbow, 90 DEG |
| 8:1  | 237-22      | 1    | O-Ring                |
| 8:2  | 237-42      | 1    | O-Ring                |
| 9    | 95-3502     | 1    | Fitting-Elbow 90      |
| 9:1  | 237-81      | 1    | O-Ring                |
| 10   | 80-6990     | 4    | Washer-Hardened       |

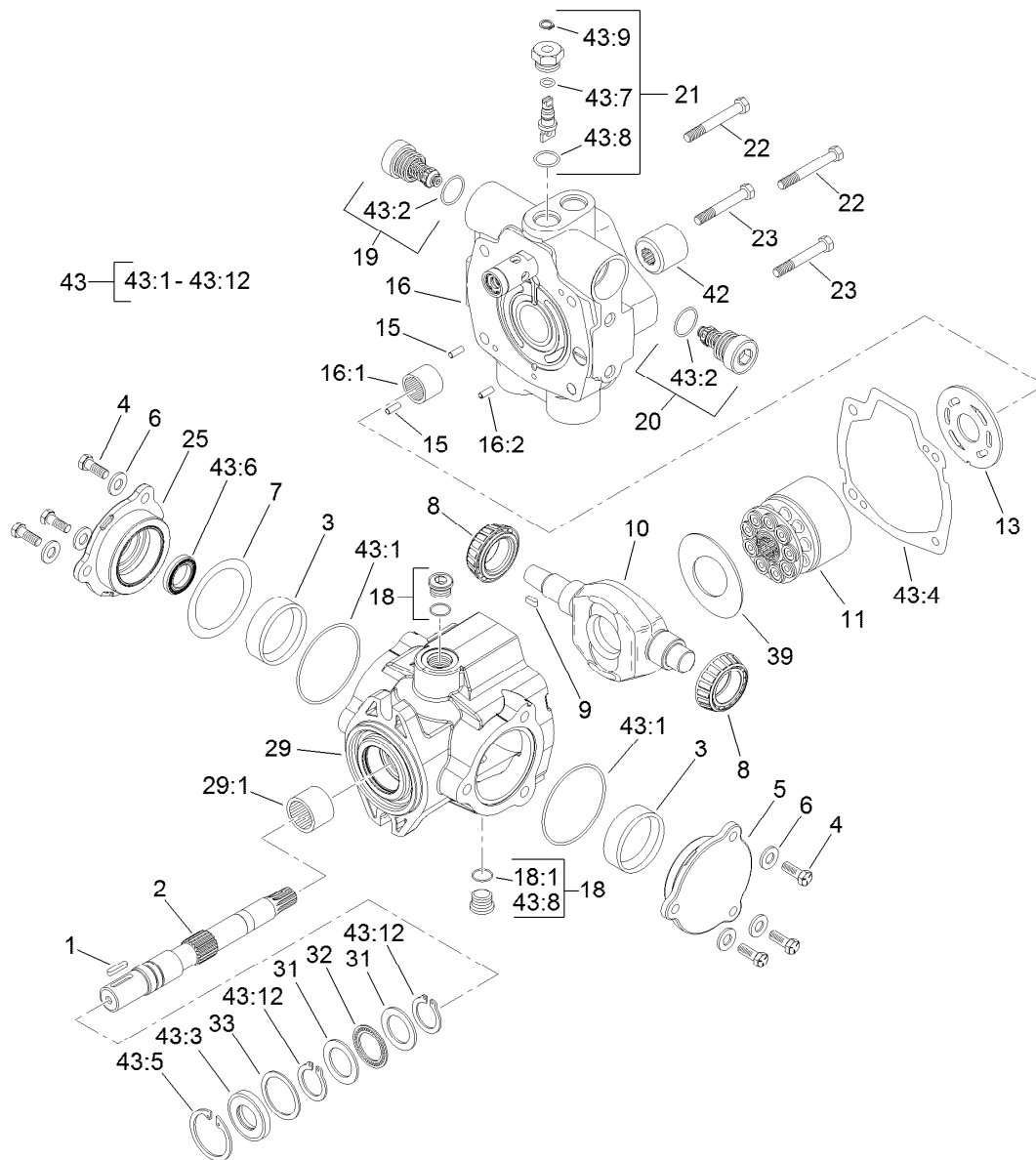
| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 11   | 108-9008    | 1    | Hose ASM           |
| 12   | 104-5486    | 1    | Hose               |
| 13   | 32128-54    | 1    | Nut-HF             |
| 14   | 99-3624     | 1    | Shaft-Pivot, Idler |
| 15   | 302-5       | 1    | Fitting-Grease     |
| 16   | 32128-21    | 1    | Nut-HF Lock        |
| 17   | 32151-36    | 1    | Ring-Retaining     |
| 18   | 323-10      | 1    | Screw-HH           |
| 19   | 74-1810     | 1    | Washer             |
| 20   | 139-6031    | 1    | Pulley-Idler       |
| 22   | 115-3488    | 1    | Spring-Torsion     |
| 23   | 137-1653    | 1    | Idler Arm ASM      |
| 23:2 | 126-1963    | 2    | Bushing-Pivot      |
| 24   | 2412-34     | 1    | Clamp-Hose         |
| 25   | 32128-43    | 4    | Nut-Flange         |
| 26   | 323-19      | 2    | Screw-HH           |
| 27   | 3234-11     | 4    | Screw-HHF          |
| 28   | 99-3436-0P  | 1    | Support-Pump       |
| 29   | 99-3440     | 2    | Spacer             |
| 30   | 33114-060   | 4    | Screw-HH           |
| 31   | 87-8640     | 3    | Washer-Flat        |



## Hydrostat Assembly (continued)

| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 32   | 105-1214    | 1    | Hose-HYD            |
| 33   | 120-3375-0P | 1    | Plate-Mount, Pump   |
| 34   | 95-8941     | 4    | Spacer-Mount, Pump  |
| 35   | 120-3350    | 1    | Pulley-3V           |
| 36   | 321-13      | 3    | Screw-HH            |
| 37   | 3253-3      | 3    | Washer-Lock         |
| 38   | 100-4813    | 1    | Bushing-Lock, Taper |
| 39   | 120-3351    | 1    | Belt-3V             |

| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 40   | 70-2041     | 1    | Trim              |
| 41   | 353-949     | 1    | O-Ring            |
| 42   | 108-9036    | 1    | HYD Gear Pump ASM |
| 43   | 323-7       | 2    | Screw-HH          |
| 44   | 3256-24     | 2    | Washer-Flat       |
| 46   | 99-3625     | 1    | Spacer-Arm, Idler |
| 47   | 100-4852    | 2    | Washer-Hardened   |
| 49   | 3245-7      | 1    | Screw-Set         |



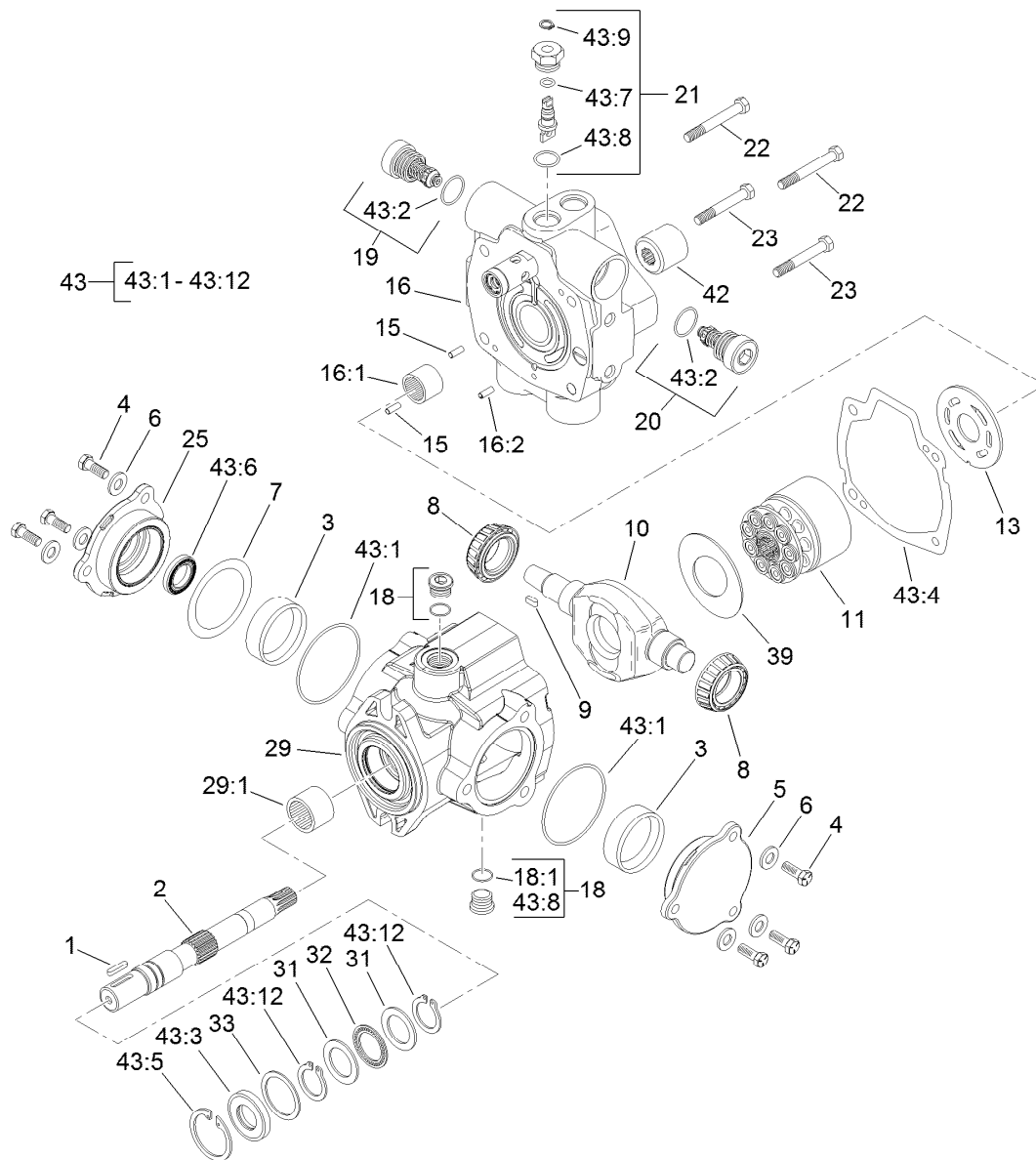
## Hydraulic Pump Assembly No. 104-4890

| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 1    | 94-3645     | 1    | Key              |
| 2    | 94-6359     | 1    | Shaft-Drive      |
| 3    | 104-4046    | 2    | Bearing-Cup      |
| 4    | 98-4640     | 6    | Screw-Cap        |
| 5    | 98-4644     | 1    | Plate-Cover      |
| 6    | 105-9762    | 6    | Washer           |
| 7    | 100-3182    | 2    | Shim Kit         |
| 8    | 98-4639     | 2    | Bearing-Cone     |
| 9    | 94-3646     | 1    | Key              |
| 10   | 104-4888    | 1    | Swashplate       |
| 11   | 76-6070     | 1    | Rotating Kit     |
| 13   | 104-0429    | 1    | Plate-Valve      |
| 15   | 76-6150     | 2    | Pin-Dowel        |
| 16   | 105-3813    | 1    | Endcover Sub ASM |
| 16:1 | 94-6368     | 1    | Bearing          |
| 16:2 |             | 1    | Pin-Roll ■       |
| 18   | 74-9280     | 2    | Plug ASM         |
| 18:1 |             | 1    | O-Ring ■         |

| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 19   | 104-4889    | 1    | Relief Valve ASM  |
| 20   | 105-3812    | 1    | Valve-Check       |
| 21   | 105-3811    | 1    | Valve-Bypass      |
| 22   | 76-6170     | 2    | Capscrew          |
| 23   | 76-6160     | 2    | Capscrew          |
| 25   | 98-4645     | 1    | Plate-Cover       |
| 29   | 100-3176    | 1    | Housing ASM       |
| 29:1 | 94-6363     | 1    | Bearing           |
| 31   | 252-71      | 2    | Washer-Thrust     |
| 32   | 252-66      | 1    | Bearing-Thrust    |
| 33   | 33-3720     | 1    | Washer            |
| 39   | 98-4635     | 1    | Insert-Plate, Cam |
| 42   | 74-9040     | 1    | Coupler           |
| 43   | 120-5754    | 1    | Seal Kit          |
| 43:1 |             | 2    | O-Ring ■          |
| 43:2 |             | 2    | O-Ring ■          |
| 43:3 |             | 1    | Seal-Shaft ■      |
| 43:4 |             | 1    | Gasket ■          |

● Not illustrated

■ Not serviced separately



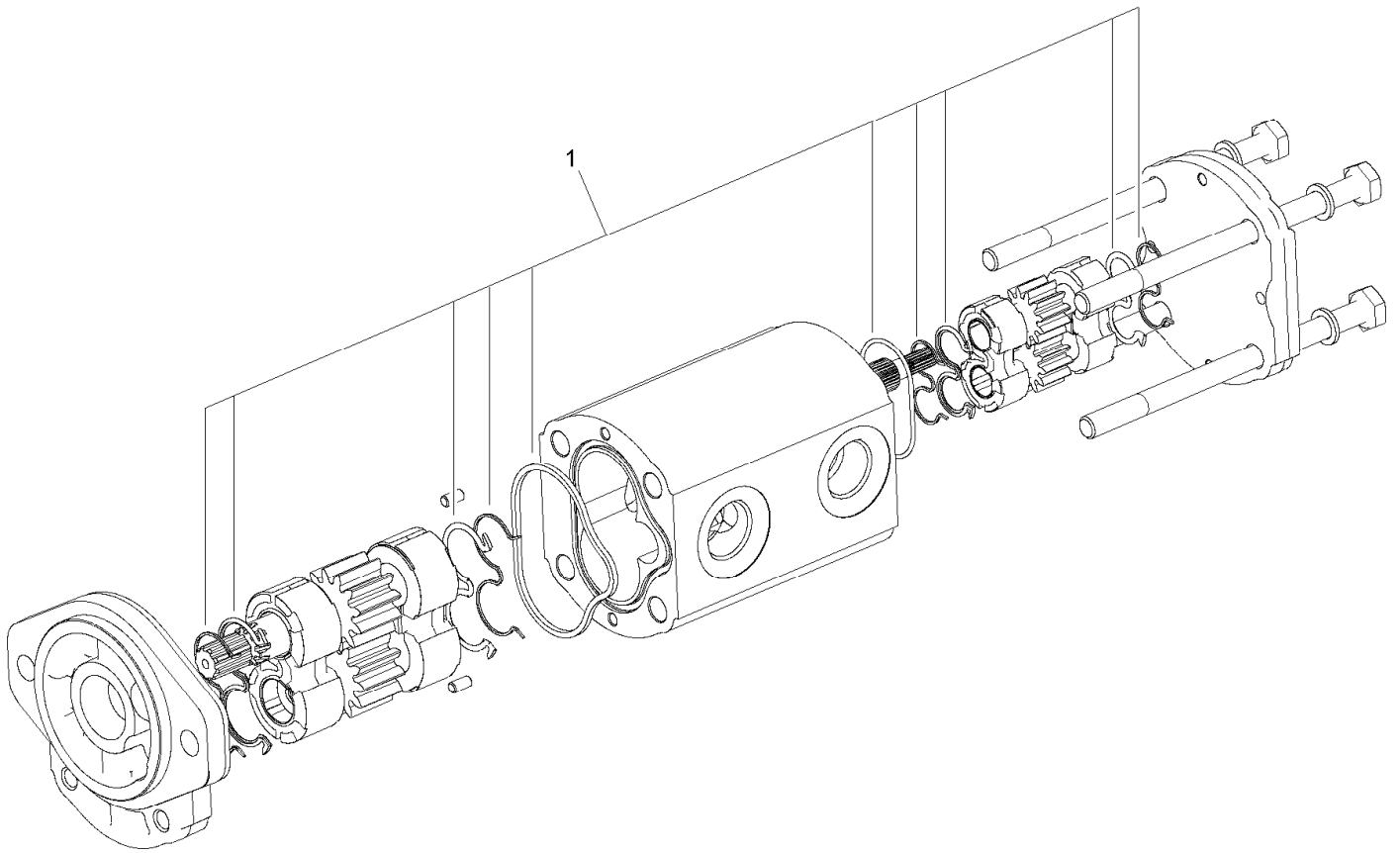
## Hydraulic Pump Assembly No. 104-4890 (continued)

| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 43:5 |             | 1    | Ring-Retaining ■ |
| 43:6 |             | 1    | Seal-Shaft ■     |
| 43:7 |             | 1    | O-Ring ■         |
| 43:8 |             | 5    | O-Ring ■         |
| 43:9 |             | 1    | Ring-Retaining ■ |

| Ref.  | Part Number | Qty. | Description      |
|-------|-------------|------|------------------|
| 43:10 |             | 1    | O-Ring ●■        |
| 43:11 |             | 1    | O Ring-Molded ●■ |
| 43:12 |             | 2    | Ring-Retaining ■ |
| 43:13 |             | 1    | O-Ring ■         |

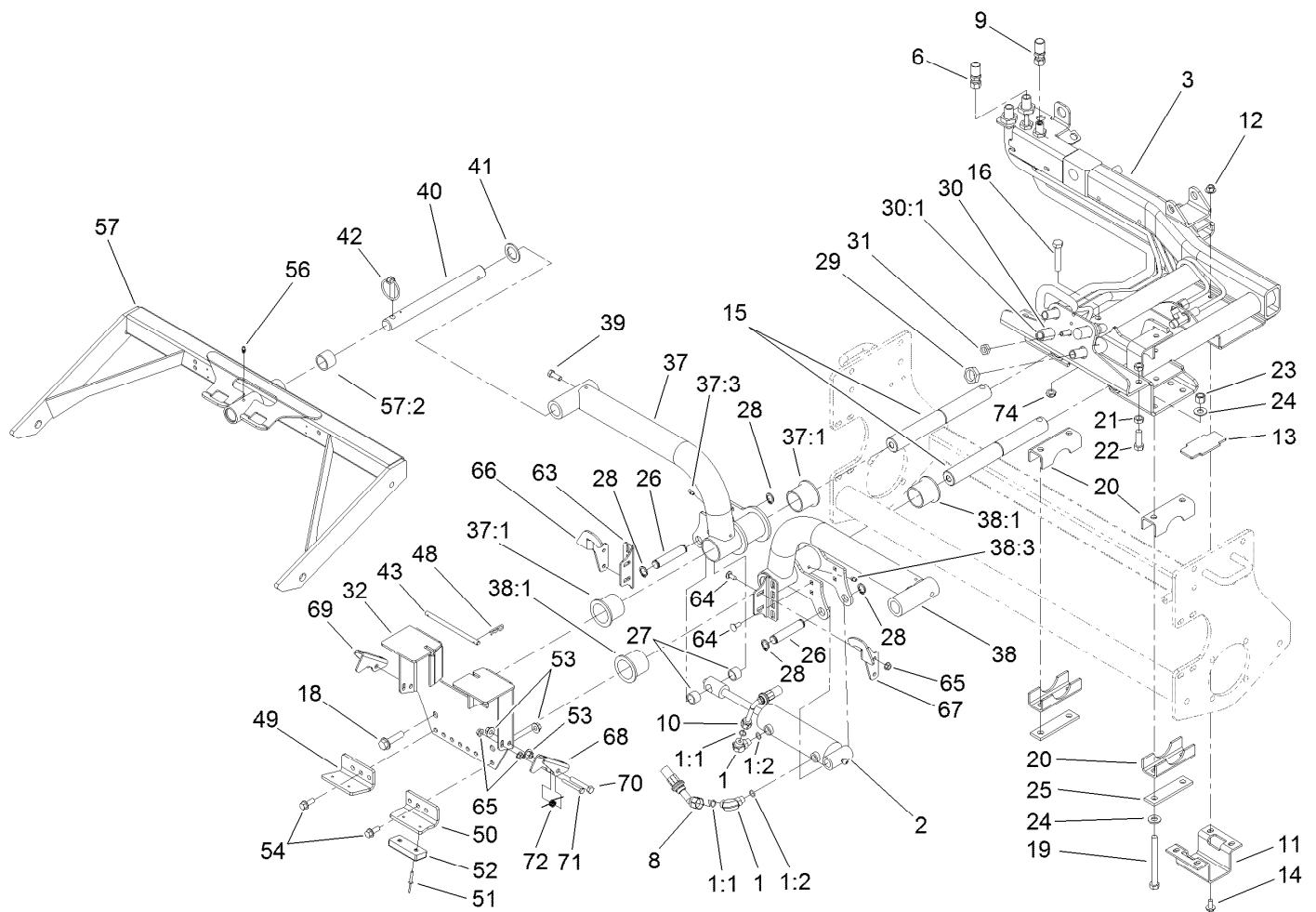
● Not illustrated

■ Not serviced separately



## Hydraulic Gear Pump Assembly No. 108-9036

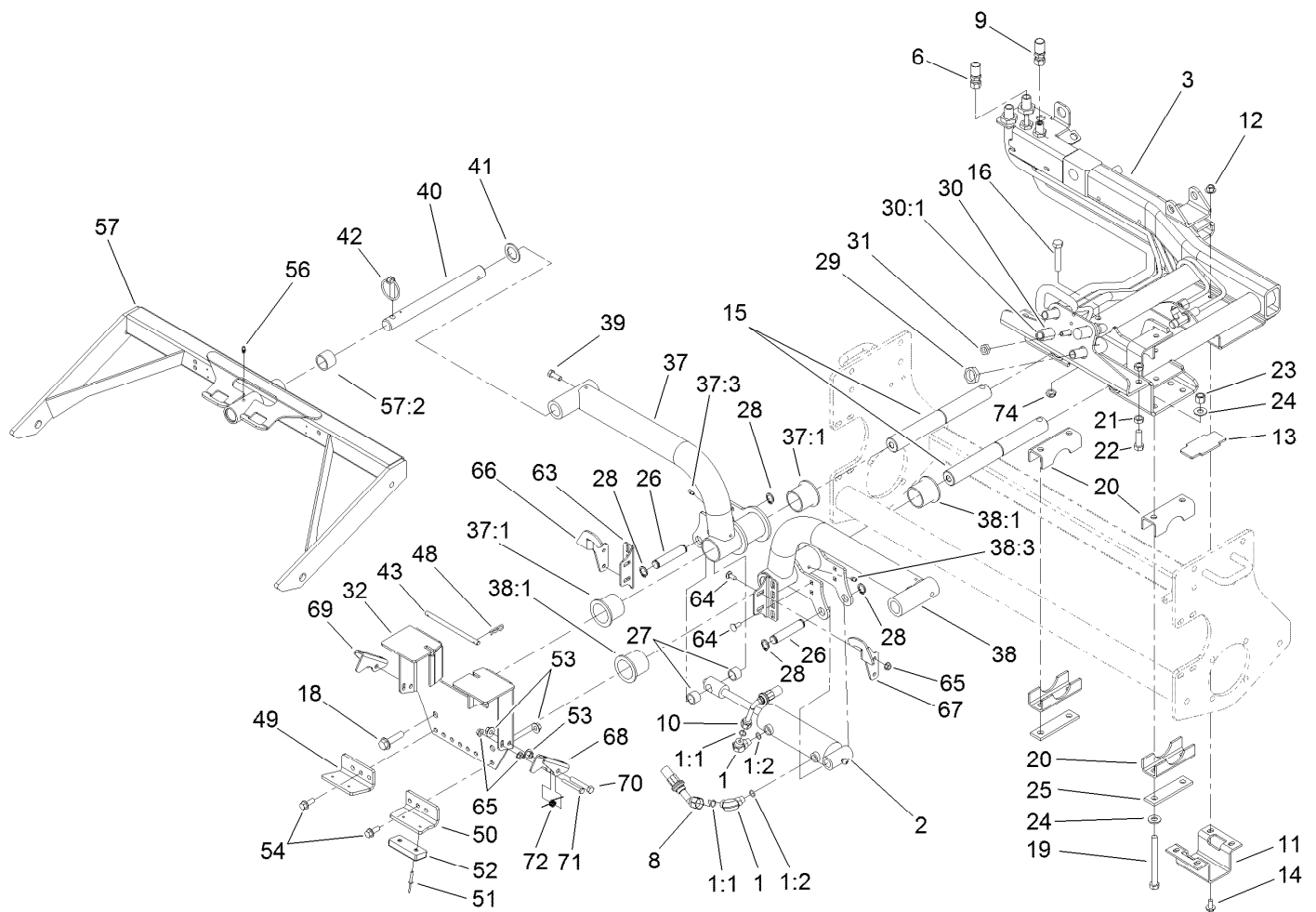
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 110-8755           | 1           | Seal Kit           |



## Carrier Assembly

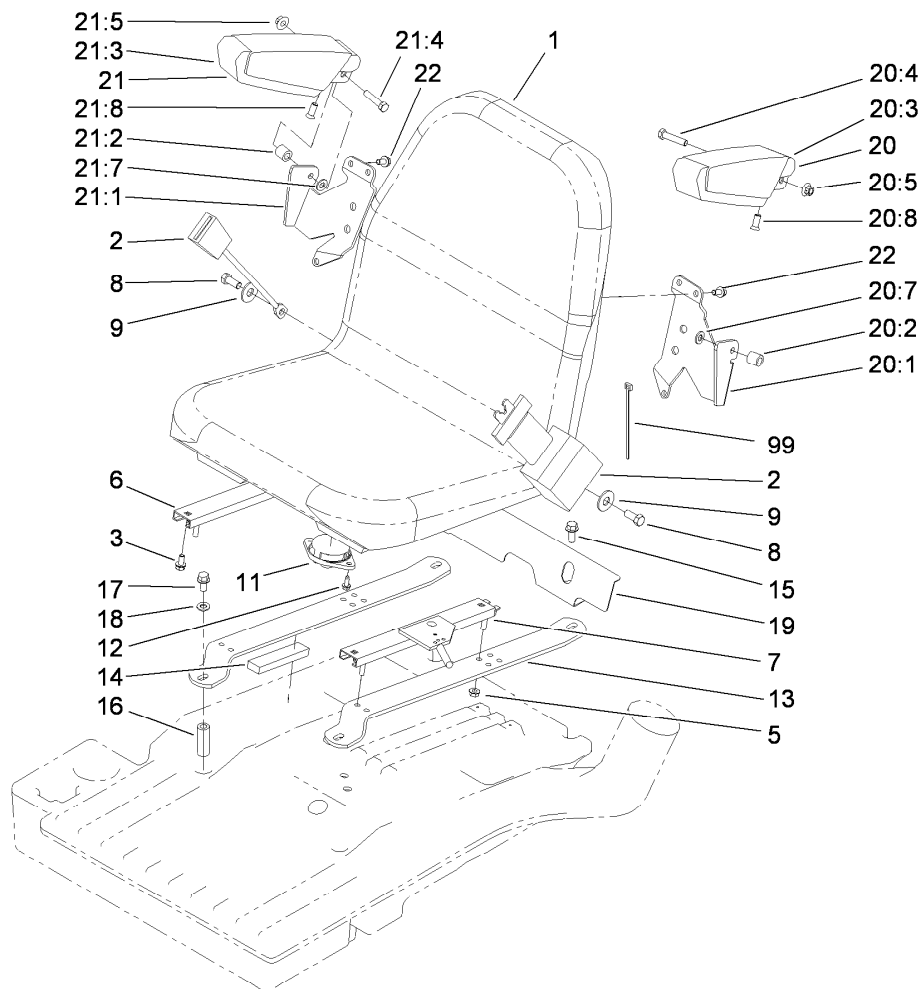
| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 340-77      | 2    | Fitting-Elbow, 90 DEG |
| 1:1  | 237-22      | 1    | O-Ring                |
| 1:2  | 237-42      | 1    | O-Ring                |
| 2    | 112-9916    | 1    | HYD Cylinder ASM      |
| 3    | 100-4939-03 | 1    | Carrier-Sidewinder    |
| 6    | 99-3575     | 1    | Hose-HYD              |
| 8    | 104-0405    | 1    | Hose-HYD              |
| 9    | 108-9013    | 1    | Hose ASM              |
| 10   | 104-0406    | 1    | Hose-HYD              |
| 11   | 95-8904-03  | 1    | Bracket-Clamp         |
| 12   | 32128-43    | 4    | Nut-Flange            |
| 13   | 95-8538     | 1    | Slide-Plastic         |
| 14   | 3234-11     | 4    | Screw-HHF             |
| 15   | 95-8531     | 2    | Shaft-Pivot, Liftarm  |
| 16   | 325-10      | 2    | Screw-HH              |
| 18   | 3234-27     | 2    | Screw-HHF             |
| 19   | 325-19      | 4    | Screw-HH              |
| 20   | 95-8884     | 4    | Clamp                 |
| 21   | 3218-5      | 4    | Nut-Jam               |
| 22   | 325-7       | 2    | Screw-HH              |
| 23   | 3296-23     | 4    | Nut-Lock, NI          |

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 24   | 87-7270     | 8    | Washer-Thrust         |
| 25   | 99-3373     | 2    | Bar-Support, Slide    |
| 26   | 95-8575     | 2    | Pin-Clevis            |
| 27   | 75-9590     | 2    | Spacer-Cylinder       |
| 28   | 32120-93    | 4    | Ring-Retaining        |
| 29   | 340-74      | 4    | Nut-Lock, Bulkhead    |
| 30   | 99-3640     | 1    | Tube ASM              |
| 30:1 | 237-65      | 2    | O-Ring                |
| 31   | 340-78      | 1    | Nut-Lock              |
| 32   | 104-4820-03 | 1    | Bracket-Stop, Carrier |
| 37   | 115-3466    | 1    | RH Short Liftarm ASM  |
| 37:1 | 69-6470     | 2    | Bushing-Caster        |
| 37:3 | 302-5       | 1    | Fitting-Grease        |
| 38   | 115-3465    | 1    | LH Short Liftarm ASM  |
| 38:1 | 69-6470     | 2    | Bushing-Caster        |
| 38:3 | 302-5       | 1    | Fitting-Grease        |
| 39   | 323-6       | 2    | Screw-HH              |
| 40   | 95-8979     | 2    | Shaft                 |
| 41   | 3-6781      | 2    | Washer-Thrust         |
| 42   | 283-71      | 2    | Pin-Lynch             |
| 43   | 104-0472    | 1    | Rod                   |



## Carrier Assembly (continued)

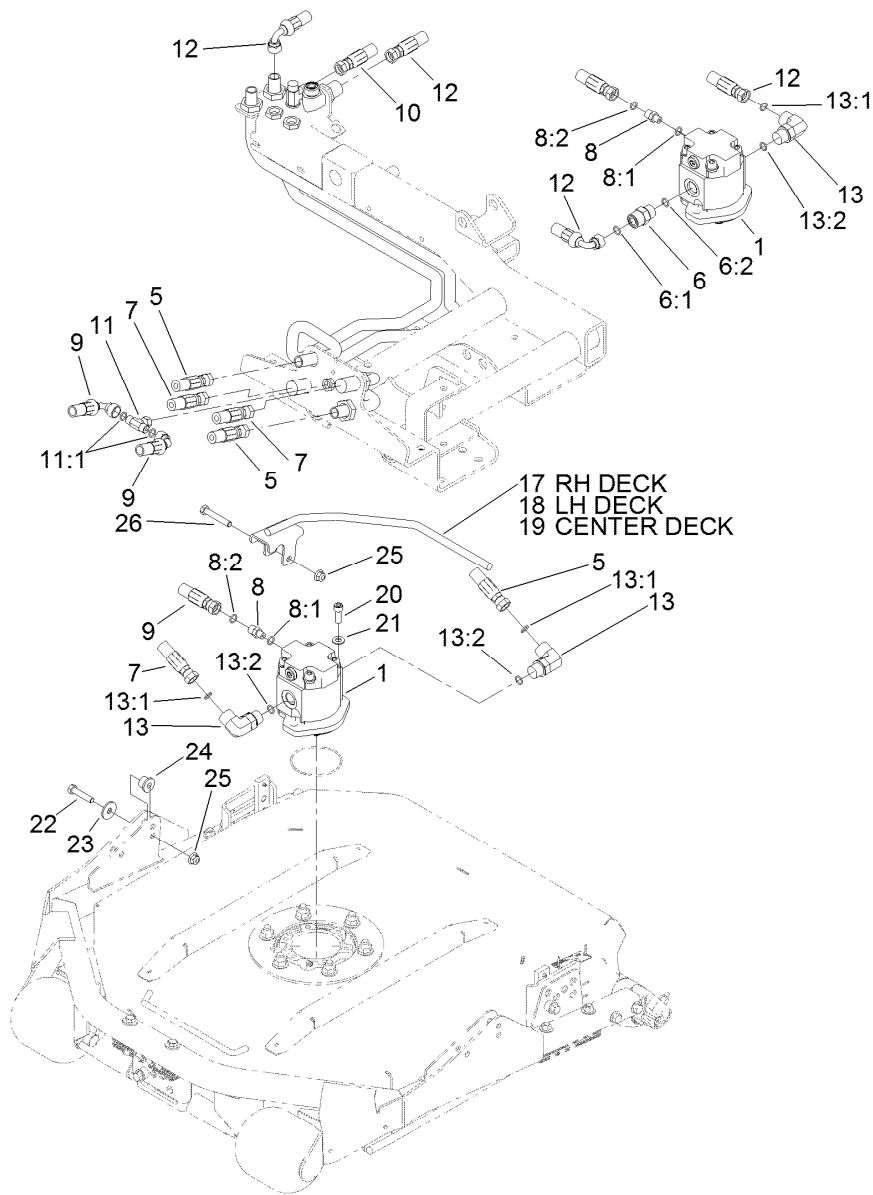
| Ref. | Part Number | Qty. | Description             | Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------------|------|-------------|------|-------------------|
| 48   | 3290-467    | 2    | Pin-Hair                | 64   | 3230-23     | 8    | Bolt-CARR         |
| 49   | 110-8793-03 | 1    | Stop-Deck, RH           | 65   | 32128-44    | 12   | Nut               |
| 50   | 110-8794-03 | 1    | Stop-Deck, LH           | 66   | 104-4826-03 | 1    | Actuator-RH       |
| 51   | 3269-11     | 4    | Rivet-Pop               | 67   | 104-4827-03 | 1    | Actuator-LH       |
| 52   | 86-5350     | 2    | Bumper-Rubber           | 68   | 104-4819-03 | 1    | Bracket-Pivot, LH |
| 53   | 32128-43    | 4    | Nut-Flange              | 69   | 104-4825-03 | 1    | Bracket-Pivot, RH |
| 54   | 3234-11     | 4    | Screw-HHF               | 70   | 323-11      | 2    | Screw-HH          |
| 56   | 302-5       | 2    | Fitting-Grease          | 71   | 322-11      | 2    | Screw-HH          |
| 57   | 110-8787    | 2    | Front Carrier Frame ASM | 72   | 104-4821    | 2    | Spring-Torsion    |
| 57:2 | 108-4000    | 2    | Bushing                 | 74   | 3296-45     | 2    | Nut-Hex           |
| 63   | 104-4828-03 | 2    | Bracket-Actuator        |      |             |      |                   |



## Seat Mounting Assembly

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 1    | 104-4620    | 1    | Seat                       |
| 2    | 100-4928    | 1    | Belt-Seat                  |
| 3    | 3234-14     | 4    | Screw-HHF                  |
| 5    | 104-8300    | 4    | Nut-HF, NI                 |
| 6    | 92-8990     | 1    | Adjuster-Seat, Non-Locking |
| 7    | 92-8991     | 1    | Adjuster (W/Latch)         |
| 8    | 3212-4      | 2    | Screw-HH                   |
| 9    | 3253-6      | 2    | Washer-Lock                |
| 11   | 92-6282     | 1    | Switch-Seat                |
| 12   | 32144-10    | 2    | Screw-HWH                  |
| 13   | 104-0467-03 | 2    | Strap-Support, Seat        |
| 14   | 95-8896     | 2    | Foam                       |
| 15   | 3234-11     | 2    | Screw-HHF                  |
| 16   | 104-0466    | 2    | Spacer                     |
| 17   | 323-14      | 2    | Screw-HH                   |
| 18   | 3256-24     | 2    | Washer-Flat                |
| 19   | 104-4833-03 | 1    | Shield-Heat                |
| 20   | 92-7307     | 1    | LH Armrest ASM             |

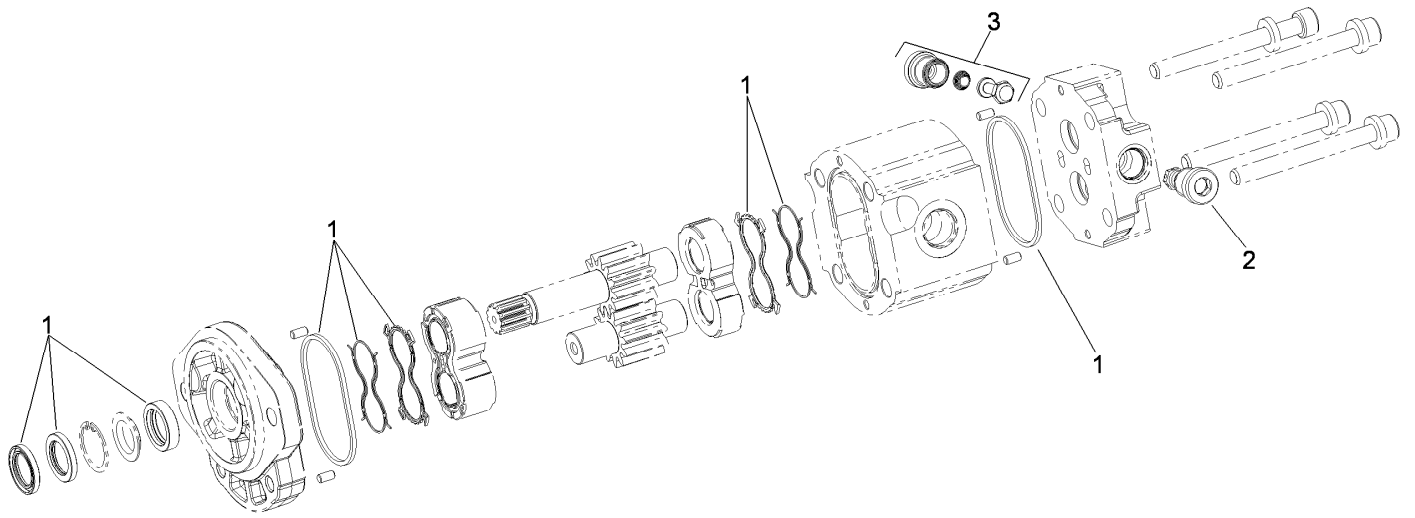
| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 20:1 | 69-0760     | 1    | Bracket-Arm, LH        |
| 20:2 | 92-7301     | 1    | Spacer                 |
| 20:3 | 69-1180     | 1    | Armrest                |
| 20:4 | 323-9       | 1    | Screw-HH               |
| 20:5 | 32128-19    | 1    | Nut-HF Lock, Large Flg |
| 20:7 | 3256-24     | 1    | Washer-Flat            |
| 20:8 | 92-7318     | 1    | Screw                  |
| 21   | 92-7306     | 1    | RH Armrest ASM         |
| 21:1 | 69-0770     | 1    | Bracket-Arm, RH        |
| 21:2 | 92-7301     | 1    | Spacer                 |
| 21:3 | 69-1180     | 1    | Armrest                |
| 21:4 | 323-9       | 1    | Screw-HH               |
| 21:5 | 32128-19    | 1    | Nut-HF Lock, Large Flg |
| 21:7 | 3256-24     | 1    | Washer-Flat            |
| 21:8 | 92-7318     | 1    | Screw                  |
| 22   | 3234-14     | 6    | Screw-HHF              |
| 99   | 3290-378    | 1    | Tie-Cable              |



## Rotary Motor and Cutting Unit Assembly

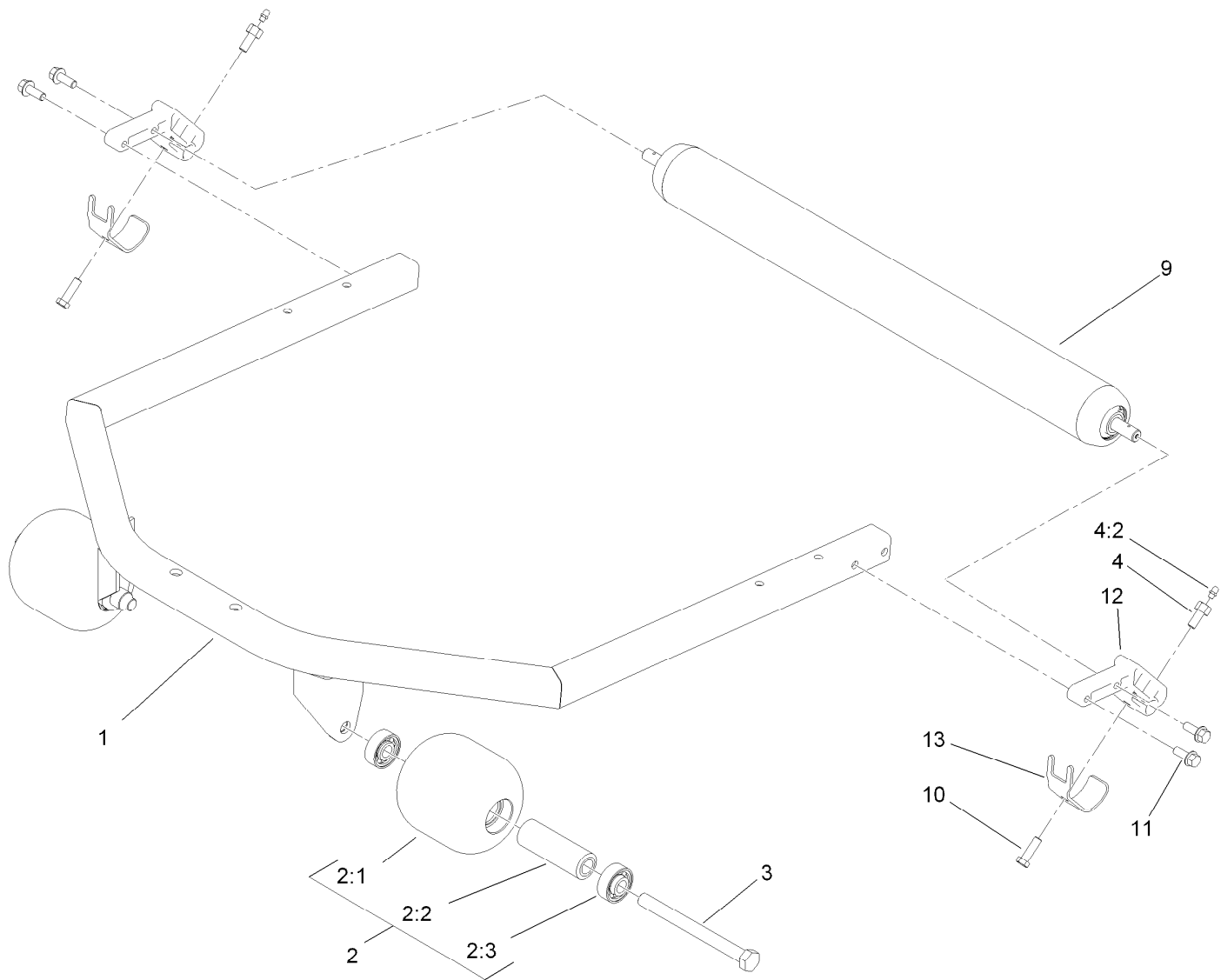
| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 1    | 117-5141    | 3    | HYD Motor ASM    |
| 5    | 105-1216    | 2    | Hose-HYD         |
| 6    | 340-7       | 1    | Fitting-Straight |
| 6:1  | 237-65      | 1    | O-Ring           |
| 6:2  | 237-80      | 1    | O-Ring           |
| 7    | 105-1215    | 2    | Hose-HYD         |
| 8    | 340-92      | 3    | Fitting-Straight |
| 8:1  | 237-78      | 1    | O-Ring           |
| 8:2  | 237-21      | 1    | O-Ring           |
| 9    | 104-1080    | 2    | Hose-HYD         |
| 10   | 100-4876    | 1    | Hose-HYD         |
| 11   | 99-3477     | 1    | Fitting-Tee      |
| 11:1 | 237-42      | 2    | O-Ring           |
| 12   | 100-4880    | 2    | Hose-HYD         |

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 13   | 340-17      | 5    | Fitting-Elbow, 90 DEG |
| 13:1 | 237-65      | 1    | O-Ring                |
| 13:2 | 237-80      | 1    | O-Ring                |
| 17   | 112-9901-03 | 1    | Guard-Foot, RH        |
| 18   | 112-9902-03 | 1    | Guard-Foot, LH        |
| 19   | 112-9900-03 | 1    | Guard-Foot            |
| 20   | 3274-7      | 6    | Screw-HSH             |
| 21   | 3256-24     | 6    | Washer-Flat           |
| 22   | 323-52      | 6    | Screw-HH              |
| 23   | 93-8806     | 6    | Washer-Hardened       |
| 24   | 95-8803     | 6    | Bushing-Flange        |
| 25   | 104-8301    | 10   | Nut-HF, NI            |
| 26   | 323-11      | 4    | Screw-HH              |



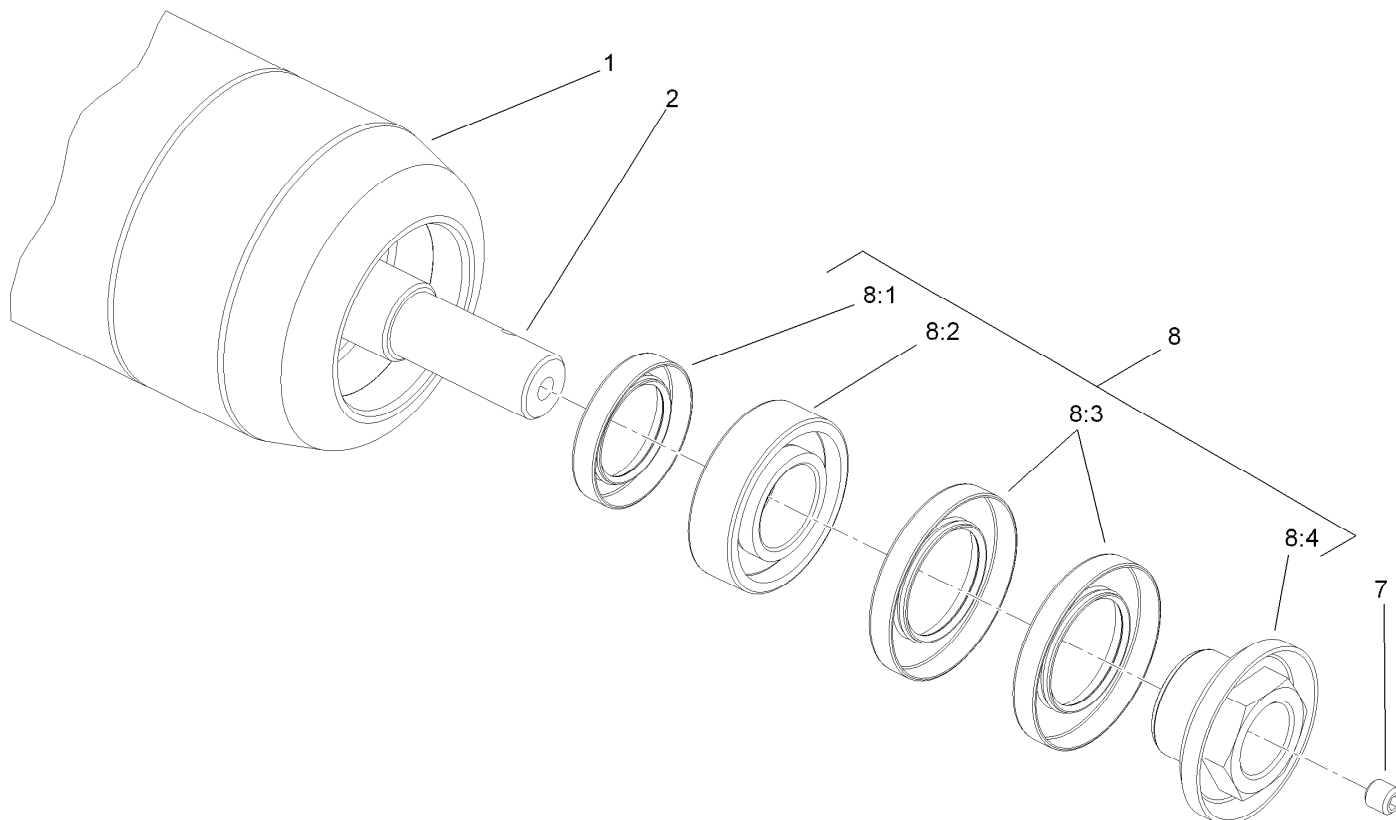
## Gear Motor Assembly No. 117-5141

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



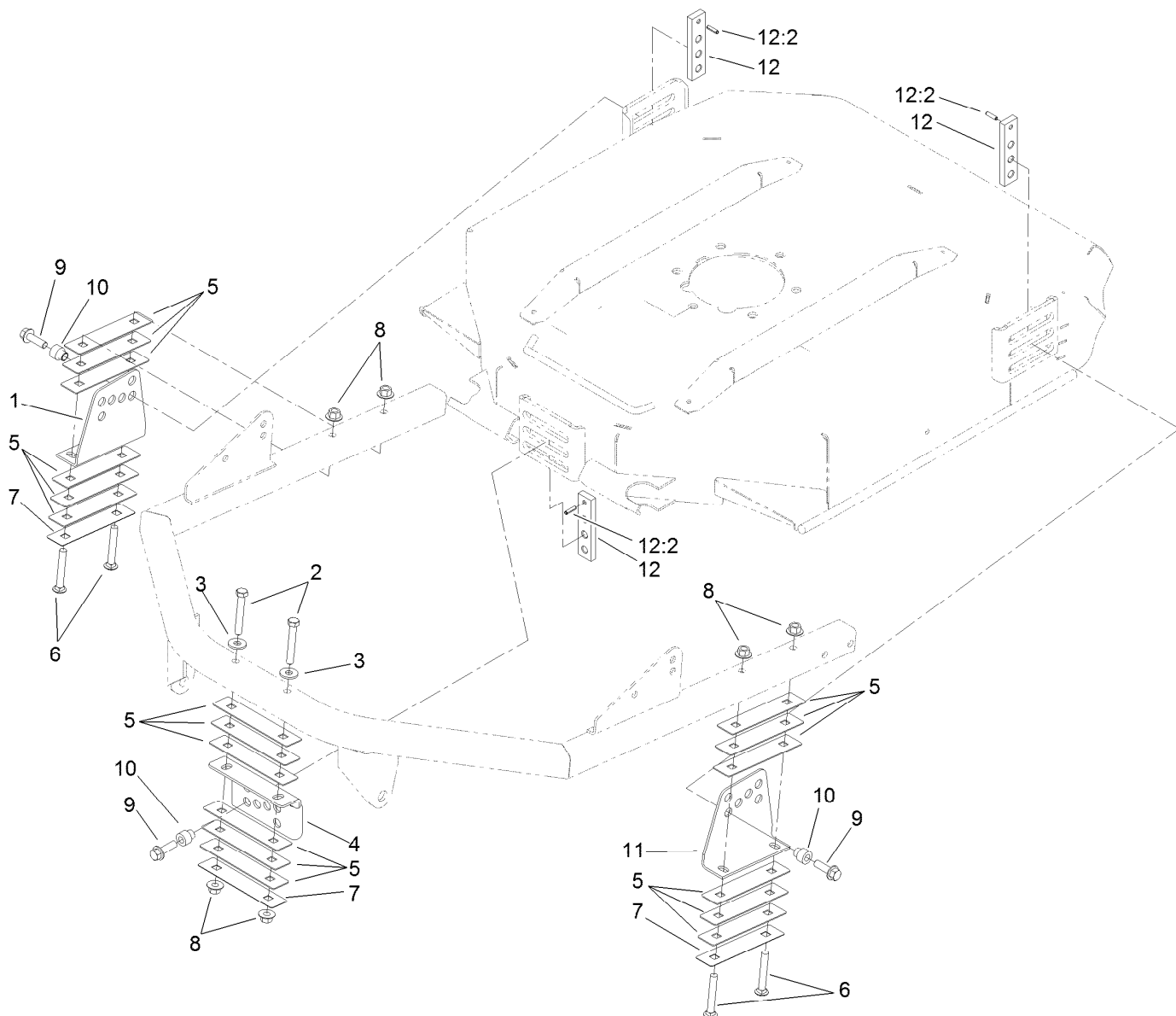
## Roller and Carrier Frame Assembly

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 1    | 100-5780-03 | 1    | Frame-Deck             |
| 2    | 115-3418    | 2    | Roller ASM             |
| 2:1  | 104-1093    | 1    | Roller                 |
| 2:2  | 100-5762    | 1    | Spacer-Bearing         |
| 2:3  | 120-3366    | 2    | Bearing                |
| 3    | 327-15      | 2    | Screw-HH               |
| 4    | 112-5270    | 2    | Roller Shaft Screw ASM |
| 4:2  | 302-5       | 1    | Fitting-Grease         |
| 9    | 112-5265    | 1    | Roller ASM             |
| 10   | 323-7       | 2    | Screw-HH               |
| 11   | 3234-11     | 4    | Screw-HHF              |
| 12   | 112-5268    | 2    | Mount-Roller           |
| 13   | 107-7816    | 2    | Bracket-Skid           |



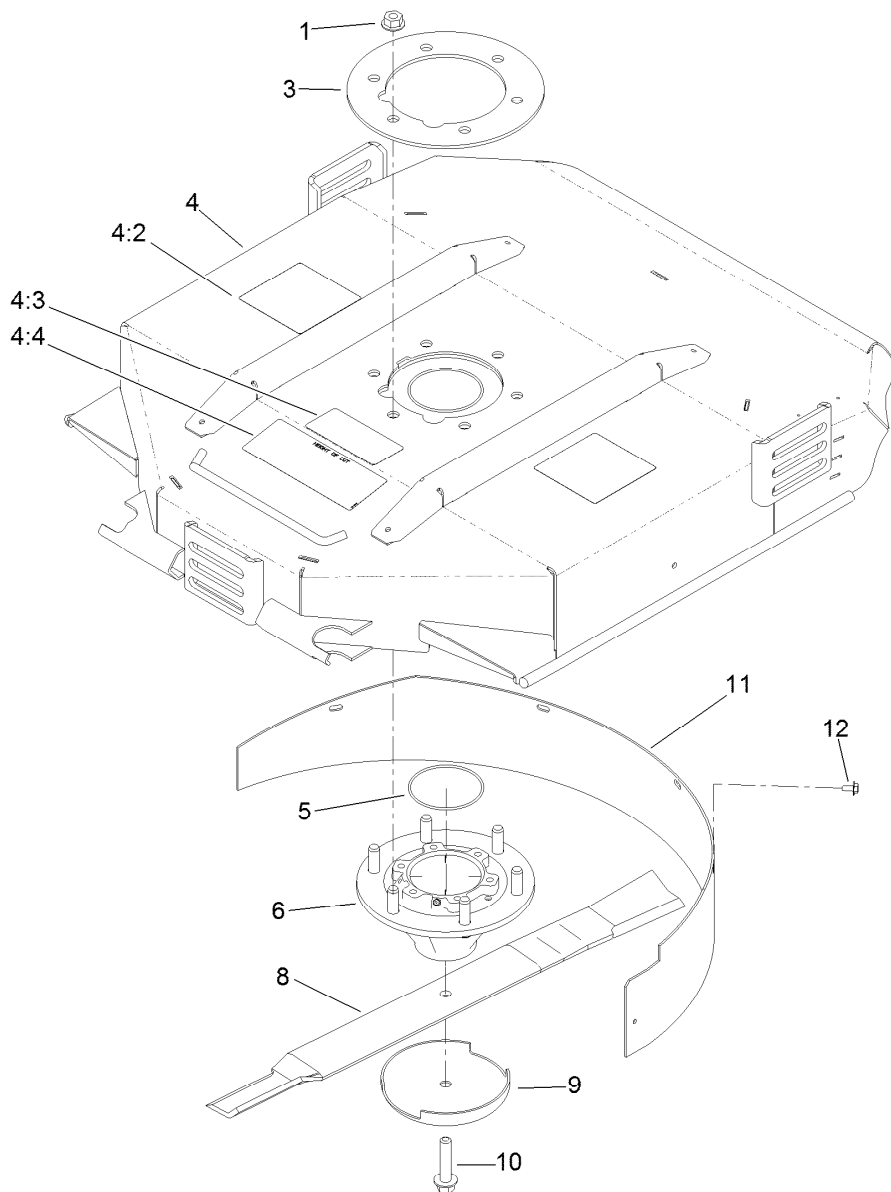
## Roller Assembly No. 112-5265

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>       |
|-------------|--------------------|-------------|--------------------------|
| 1           | 112-5274-03        | 1           | Tube ASM                 |
| 2           | 117-5100           | 1           | Shaft-Roller, Rear       |
| 7           | 108-0989           | 2           | Screw-Set                |
| 8           | 114-5430           | 1           | Roller Rebuild Kit       |
| 8:1         | 114-3717           | 2           | Seal-Oil                 |
| 8:2         | 112-5290           | 2           | Bearing-Steel, Stainless |
| 8:3         | 112-7494           | 4           | Seal                     |
| 8:4         | 114-5411           | 2           | Nut-Lock, Bearing        |



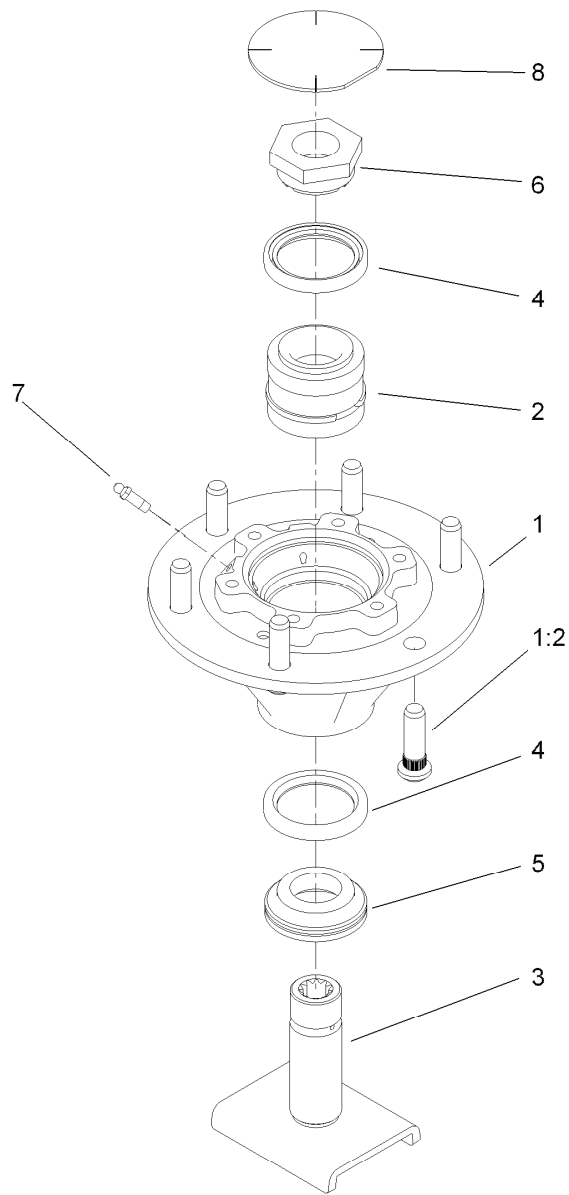
## Height-of-Cut Bracket Assembly

| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 1    | 100-5797-03 | 1    | Bracket-HOC, RH     |
| 2    | 323-12      | 2    | Screw-HH            |
| 3    | 80-6990     | 2    | Washer-Hardened     |
| 4    | 104-1052-03 | 1    | Bracket-HOC, Front  |
| 5    | 100-5799    | 18   | Shim-HOC, .060 Inch |
| 6    | 3231-9      | 4    | Screw-CARR          |
| 7    | 104-4641    | 3    | Shim-HOC, .030 Inch |
| 8    | 32128-43    | 6    | Nut-Flange          |
| 9    | 3234-24     | 3    | Screw-HHF           |
| 10   | 121-3575    | 3    | Spacer-HOC          |
| 11   | 104-4624-03 | 1    | Bracket-HOC, LH     |
| 12   | 105-9225    | 3    | HOC Plate ASM       |
| 12:2 | 32121-3     | 1    | Pin-Spring          |



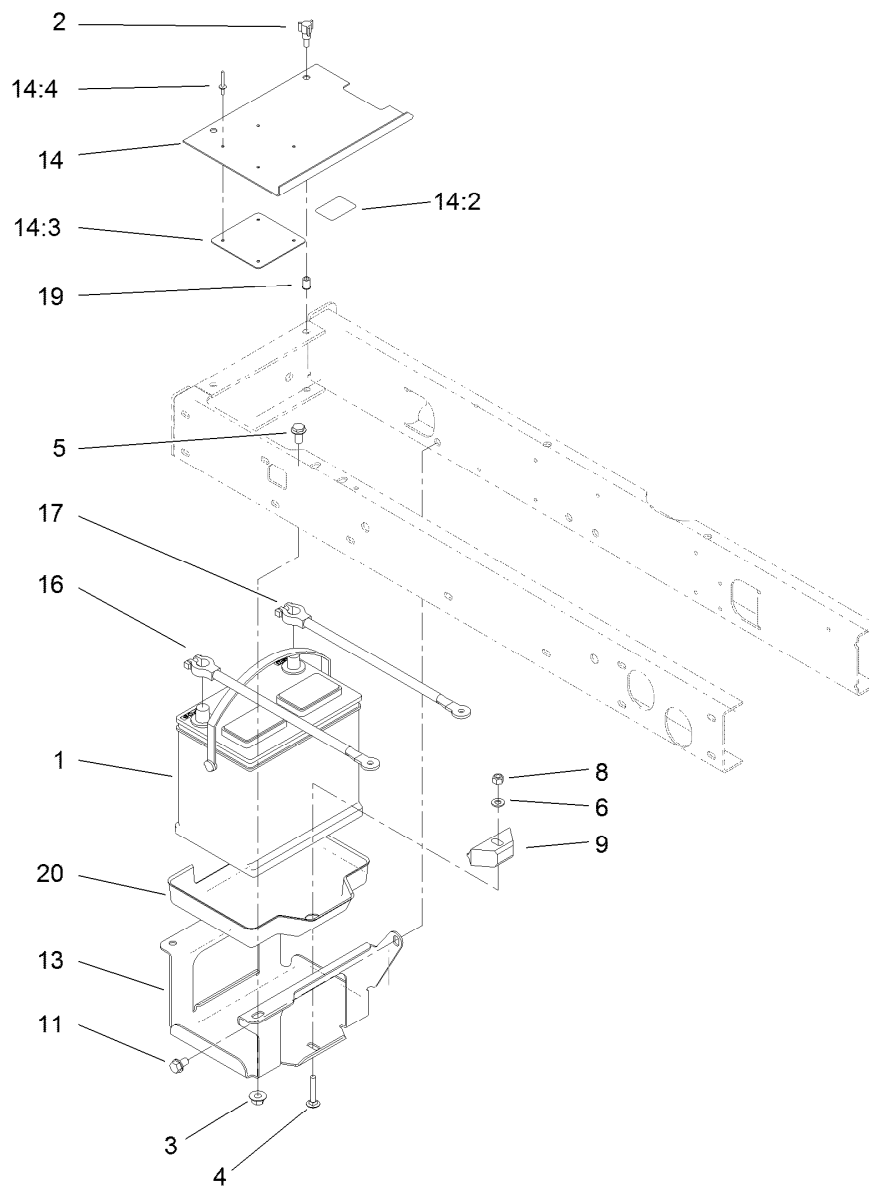
## Chamber, Blade and Spindle Assembly

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 1    | 32128-39    | 6    | Nut-HHF                  |
| 3    | 104-1051-03 | 1    | Plate-Spindle            |
| 4    | 115-3479    | 1    | Chamber ASM              |
| 4:2  | 117-4764    | 2    | Decal-Danger             |
| 4:3  | 93-7818     | 1    | Decal-Torque, Blade Bolt |
| 4:4  | 104-1086    | 1    | Decal-HOC                |
| 5    | 237-161     | 1    | O-Ring                   |
| 6    | 115-3435    | 1    | Spindle ASM              |
| 8    | 107-0235-03 | 1    | Blade-Atomic             |
| 8    | 108-9026-03 | 1    | Blade-Combo              |
| 9    | 72-9361     | 1    | Cup-Scalp, Anti          |
| 10   | 92-5816     | 1    | Bolt-Blade               |
| 11   | 108-9025-01 | 1    | Baffle-Mulching          |
| 12   | 46-8560     | 5    | Screw-HHFTF              |



## Spindle Assembly No. 115-3435

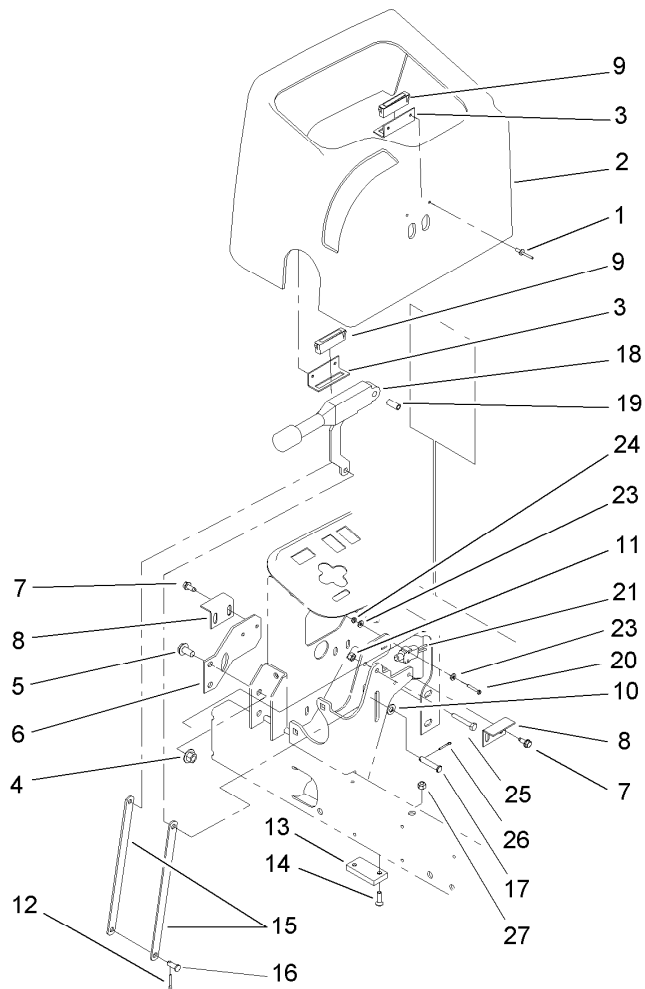
| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 1    | 115-3434    | 1    | Spindle                |
| 1:2  | 10-6830     | 6    | Stud-Type, Drive       |
| 2    | 100-5703    | 1    | Spacer And Bearing ASM |
| 3    | 100-5705    | 1    | Spindle Shaft ASM      |
| 4    | 253-154     | 2    | Seal-Oil               |
| 5    | 69-6950     | 1    | Spacer-Shaft, Spindle  |
| 6    | 100-5709    | 1    | Nut-Spindle, Spcl      |
| 7    | 302-62      | 2    | Fitting-Grease         |
| 8    | 94-2703     | 1    | Plug                   |



## Battery Assembly

| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 1    | 104-9979    | 1    | Battery          |
| 2    | 233-70      | 2    | Knob-Star, Three |
| 3    | 32128-43    | 3    | Nut-Flange       |
| 4    | 3230-6      | 1    | Bolt-CARR        |
| 5    | 3234-1      | 3    | Screw-HHF        |
| 6    | 3256-23     | 1    | Washer-Plain     |
| 8    | 3296-29     | 1    | Nut-Lock, NI     |
| 9    | 66-2490     | 1    | Retainer-Battery |
| 11   | 32144-15    | 1    | Screw-HHFTF      |

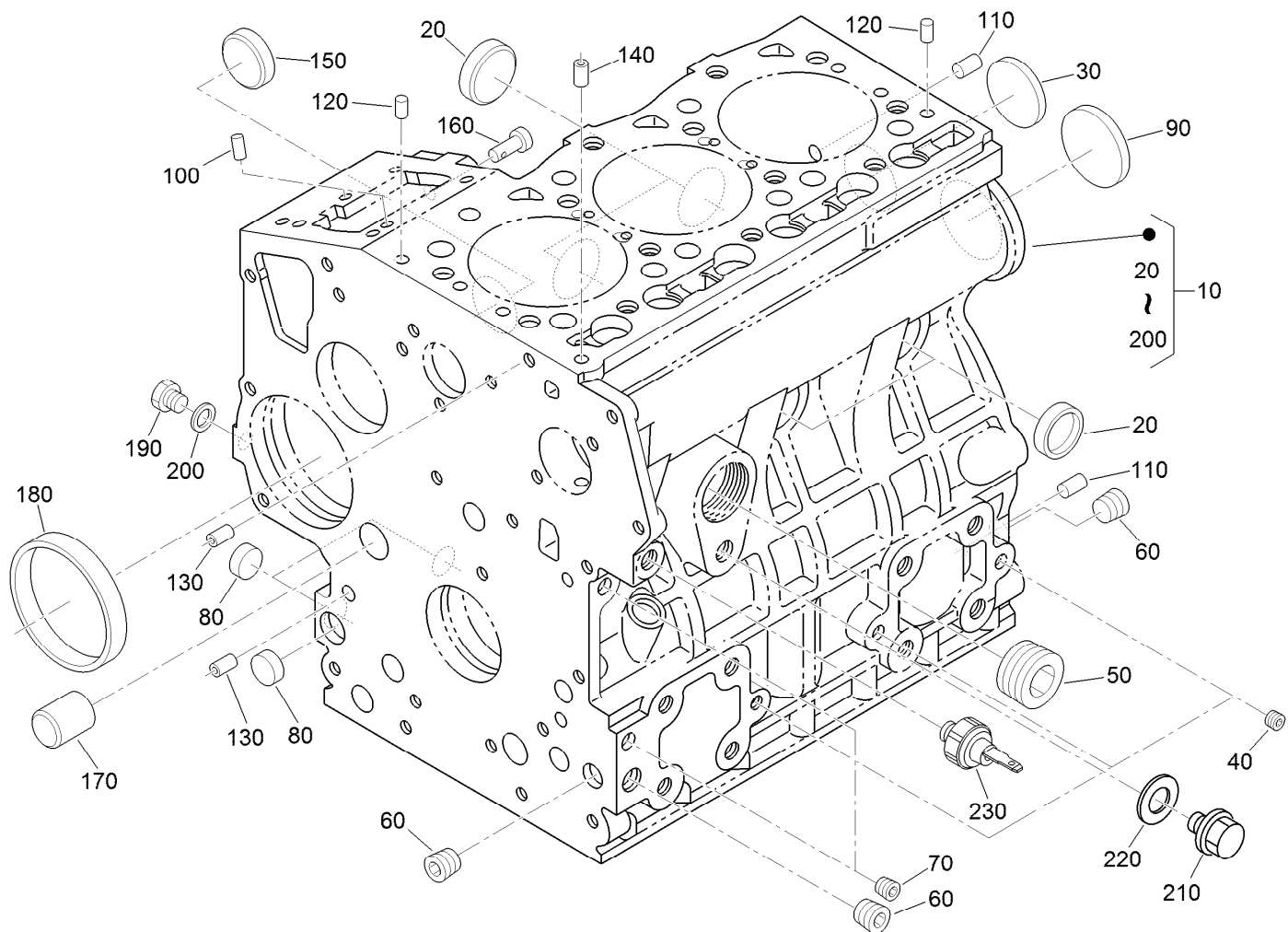
| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 13   | 95-8796-03  | 1    | Support-Battery          |
| 14   | 99-3602     | 1    | Battery Cover ASM        |
| 14:2 | 93-7276     | 1    | Decal-Danger             |
| 14:3 | 87-7620     | 1    | Shield-Terminal, Battery |
| 14:4 | 3269-27     | 4    | Rivet-Snap               |
| 16   | 95-8853     | 1    | Cable-Battery, Positive  |
| 17   | 95-8854     | 1    | Cable-Battery, Negative  |
| 19   | 32148-6     | 2    | Nut-Clinch               |
| 20   | 99-3513     | 1    | Tray-Battery             |



## Parking Brake Assembly

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 1    | 3269-5      | 4    | Rivet-Pop                |
| 2    | 95-8707     | 1    | Cover-Dash               |
| 3    | 95-8763     | 2    | Bracket-Hold Down, Cover |
| 4    | 32128-43    | 2    | Nut-Flange               |
| 5    | 3234-1      | 2    | Screw-HHF                |
| 6    | 95-8764-03  | 1    | Support-Magnet           |
| 7    | 32144-10    | 4    | Screw-HWH                |
| 8    | 95-8765     | 2    | Bracket-Strike, Magnet   |
| 9    | 58-4250     | 2    | Catch-Magnetic           |
| 10   | 3256-23     | 3    | Washer-Plain             |
| 11   | 3296-42     | 1    | Nut-Lock, NI             |
| 12   | 3272-10     | 1    | Pin-Cotter               |
| 13   | 95-8684     | 1    | Pad-Bumper               |

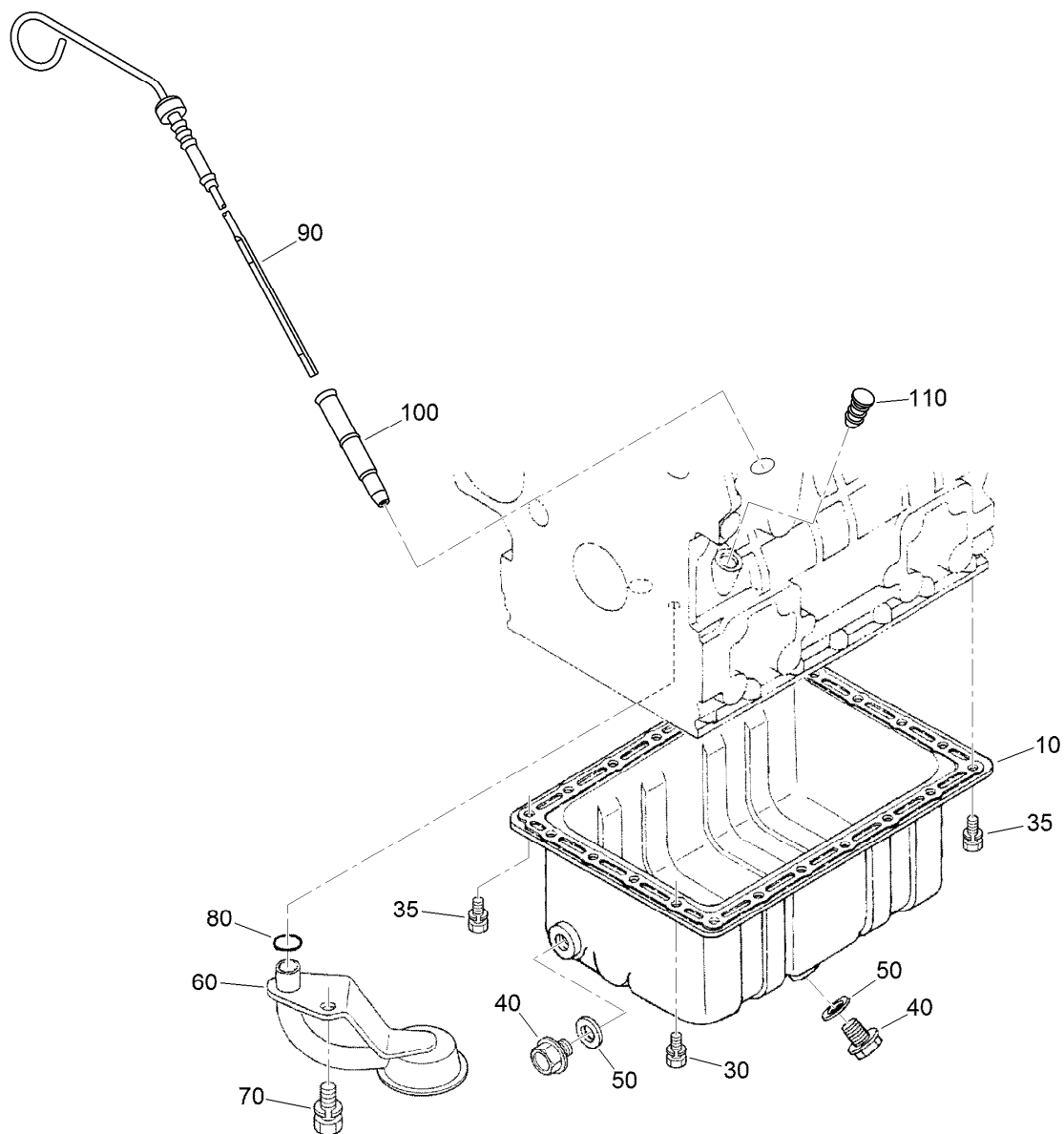
| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 14   | 3289-4      | 2    | Screw-FH              |
| 15   | 104-4628-03 | 2    | Link-Brake, Parking   |
| 16   | 283-62      | 1    | Pin-Clevis            |
| 17   | 94-3829     | 1    | Pin-Clevis            |
| 18   | 104-4817    | 1    | Lever-Brake           |
| 19   | 87-4710     | 1    | Spacer-Brake, Parking |
| 20   | 32105-9     | 2    | Screw                 |
| 21   | 95-8900     | 1    | Switch                |
| 23   | 3256-21     | 4    | Washer-Flat           |
| 24   | 3296-9      | 2    | Nut-Hex               |
| 25   | 321-10      | 1    | Screw-HH              |
| 26   | 3272-6      | 1    | Pin-Cotter            |
| 27   | 32128-32    | 2    | Nut-HHF               |



## Crankcase Assembly

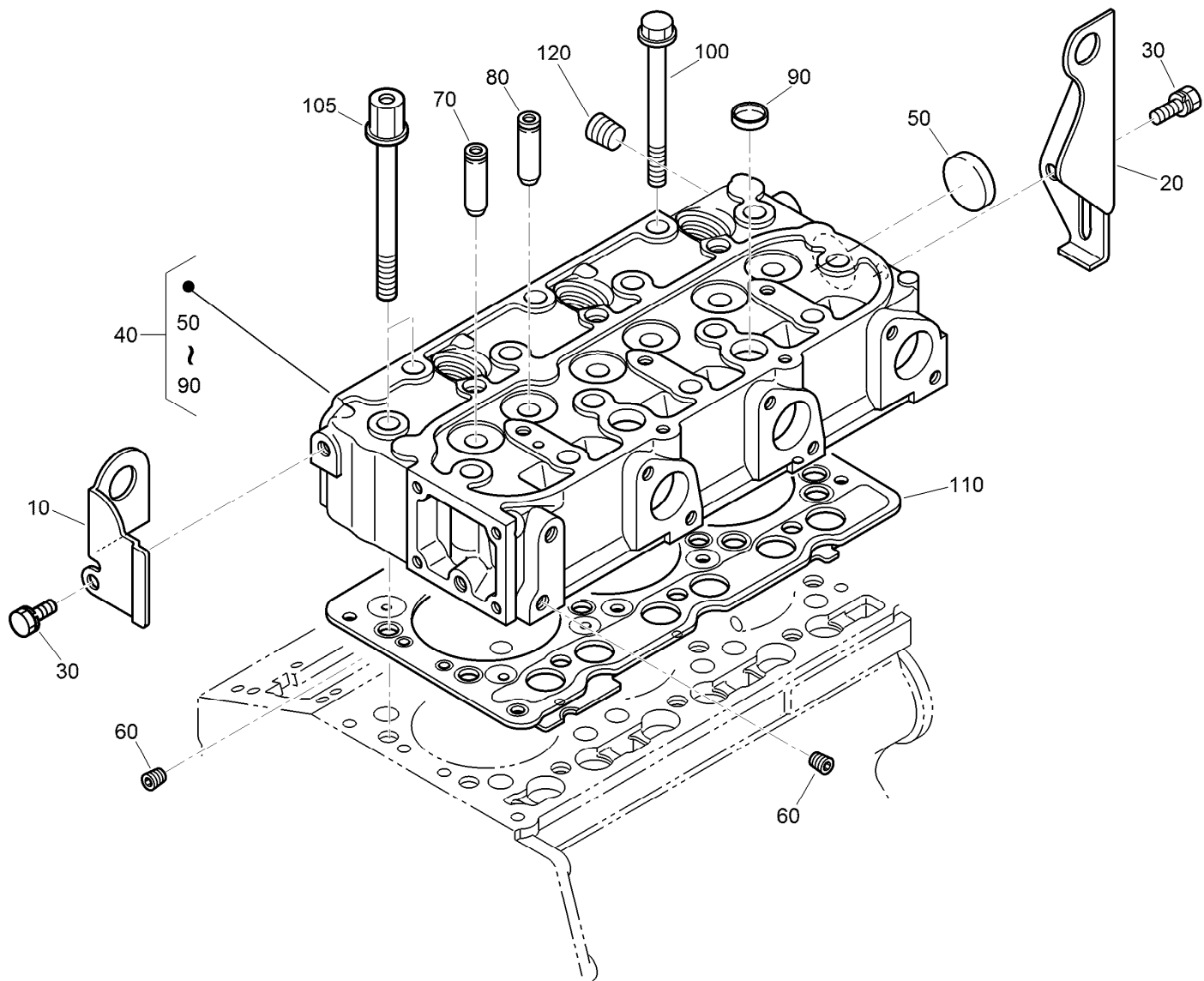
| Ref. | Part Number | Qty. | Description    |
|------|-------------|------|----------------|
| 10   | 115-3443    | 1    | Crankcase ASM  |
| 20   | 98-9398     | 4    | Cap-Sealing    |
| 30   | 98-7539     | 1    | Cap-Sealing    |
| 40   | 98-9687     | 3    | Plug           |
| 50   | 105-3779 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

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 130  | 98-9387     | 2    | Pin-Pipe               |
| 140  | 98-9539     | 1    | Pin-Pipe               |
| 150  | 98-9599     | 1    | Plug                   |
| 160  | 98-9630     | 1    | Pin-Spring, Start      |
| 170  | 98-9675     | 1    | Plug                   |
| 180  | 98-9656     | 1    | Bushing-Governor, Gear |
| 190  | 120-2559    | 1    | Plug                   |
| 200  | 98-7428     | 1    | Gasket                 |
| 210  | 99-3447     | 1    | Plug                   |
| 220  | 106-7056    | 1    | Gasket                 |
| 230  | 98-9416     | 1    | Switch-Oil             |



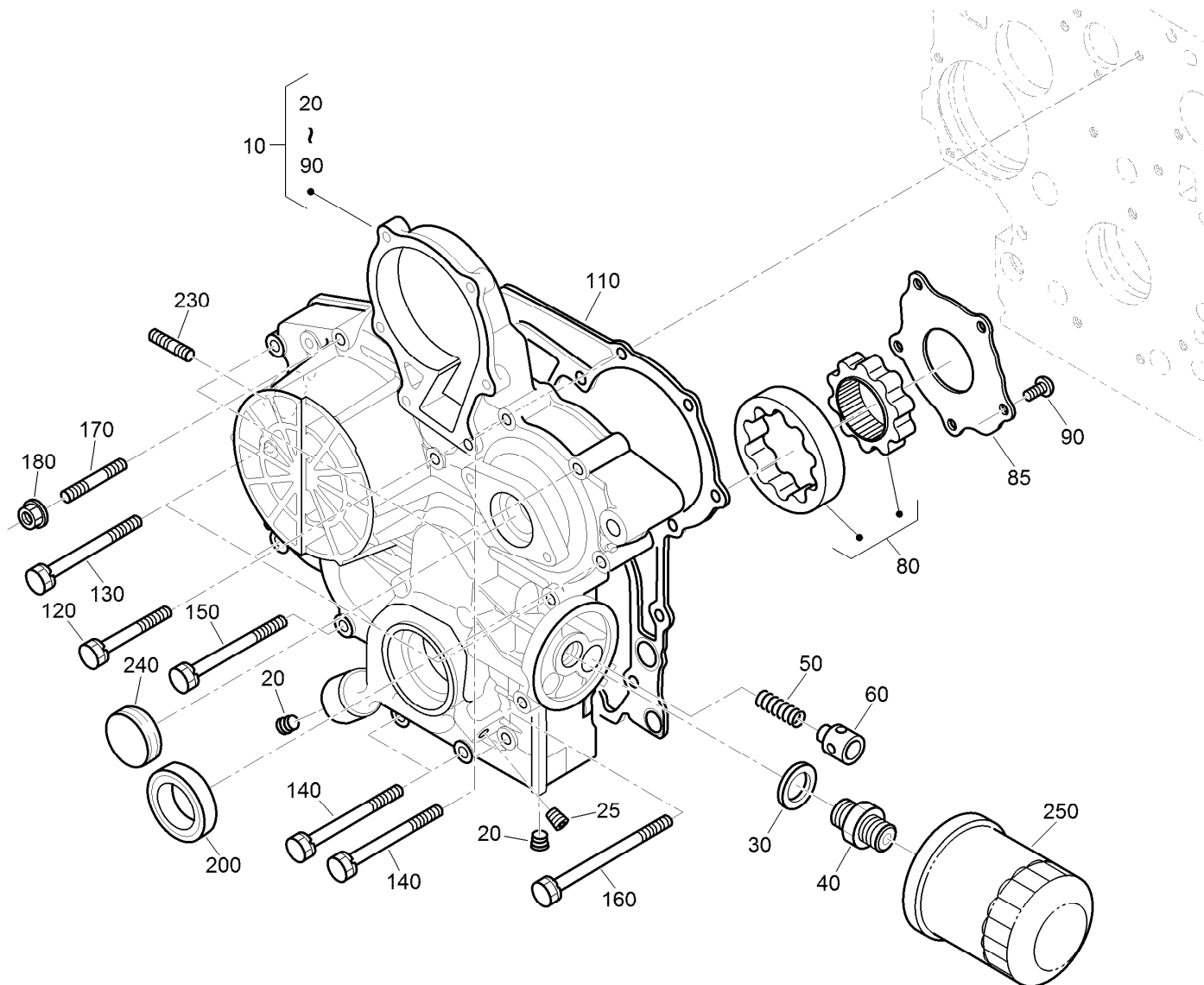
## Oil Pan and Dipstick Assembly

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



## Cylinder Head Assembly

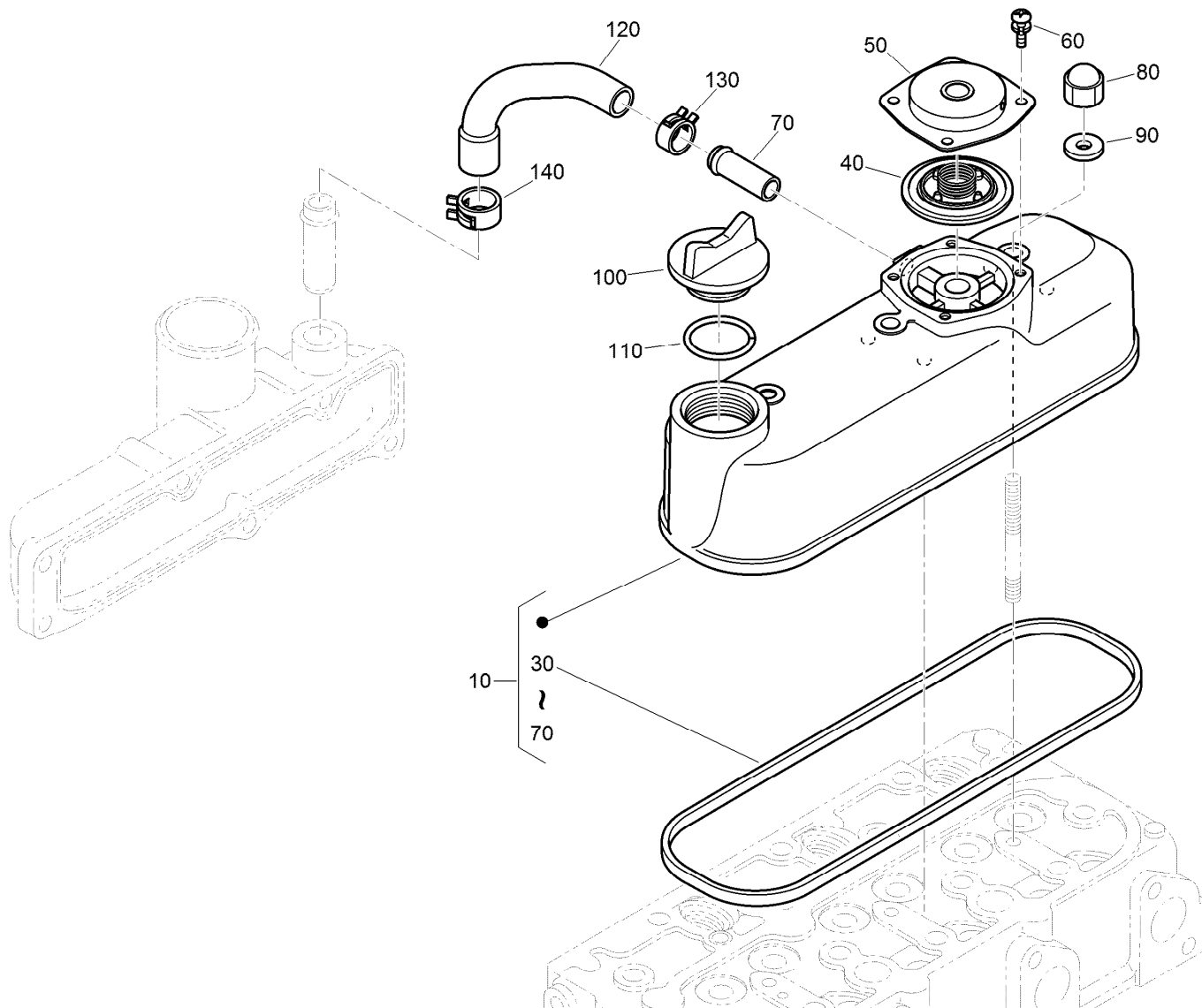
| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 10   | 130-1231    | 1    | Hook-Engine           |
| 20   | 98-9478     | 1    | Hook-Engine           |
| 30   | 100-9195    | 2    | Bolt                  |
| 40   | 130-1544    | 1    | Cylinder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



## Gear Case and Oil Filter Cartridge Assembly

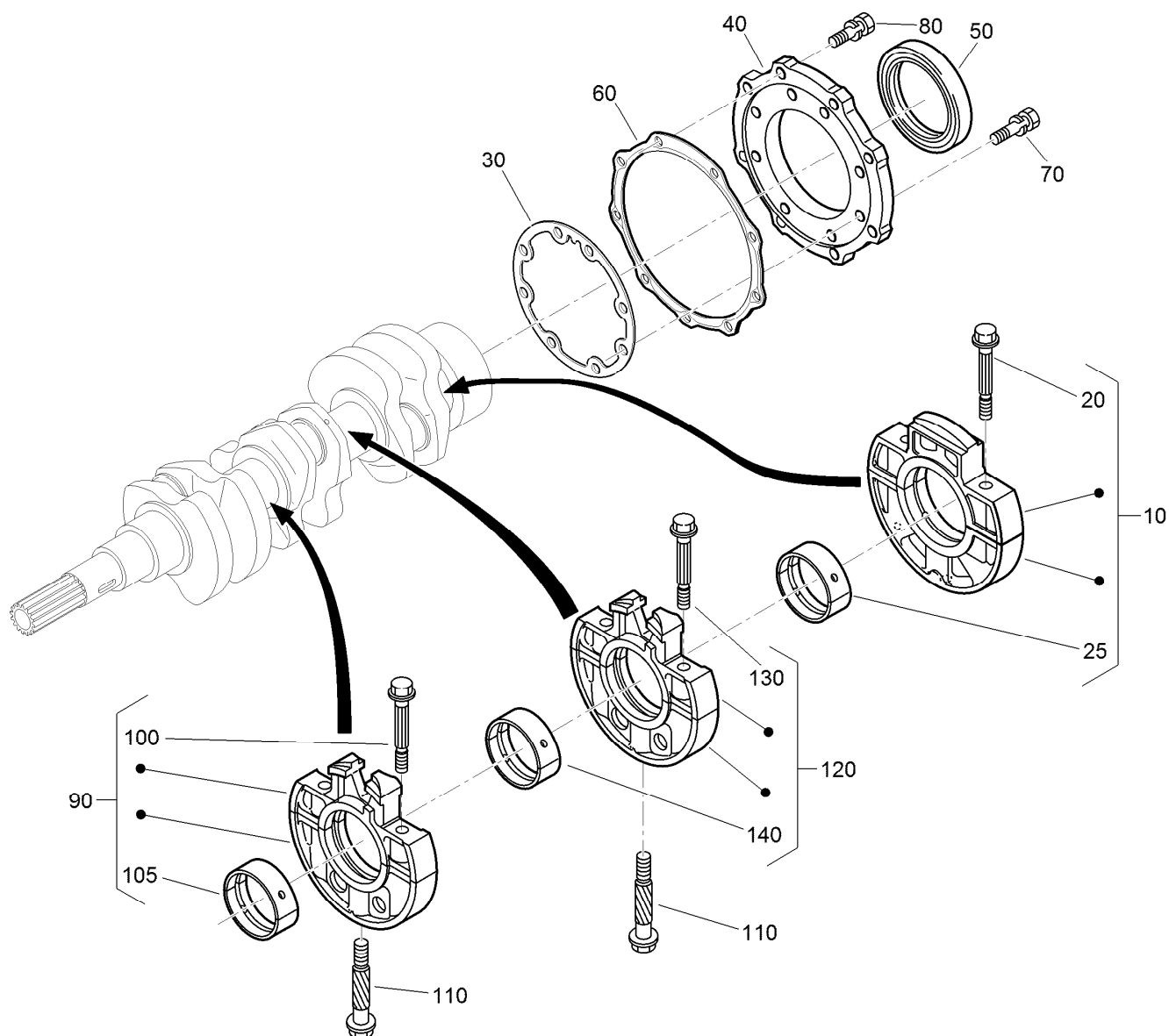
| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 10   | 130-1243    | 1    | *obs* Gear Case ASM |
| 20   | 98-9598     | 2    | Plug                |
| 25   | 98-7487     | 1    | Plug                |
| 30   | 98-7562     | 1    | Washer-Plain        |
| 40   | 98-9388     | 1    | Joint-Pipe          |
| 50   | 130-1511    | 1    | Spring              |
| 60   | 130-1510    | 1    | Valve-Relief        |
| 80   | 130-1508    | 1    | Rotor ASM           |
| 85   | 130-1509    | 1    | Cover-Pump, Oil     |
| 90   | 130-1164    | 5    | Screw-Binding       |
| 110  | 98-9633     | 1    | Gasket-Case, Gear   |

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 120  | 100-1765    | 3    | Bolt                  |
| 130  | 125-9063    | 4    | Bolt-Sems             |
| 140  | 98-9356     | 4    | Bolt                  |
| 150  | 107-9074    | 1    | Bolt                  |
| 160  | 98-9586     | 1    | Bolt                  |
| 170  | 105-3709    | 1    | Stud                  |
| 180  | 100-2203    | 1    | Nut-Flange            |
| 200  | 119-8038    | 1    | Seal-Oil              |
| 230  | 105-3710    | 2    | Stud                  |
| 240  | 98-9641     | 1    | Cover-Case, Gear      |
| 250  | 130-1569    | 1    | Cartridge-Filter, Oil |



## Cylinder Head Cover Assembly

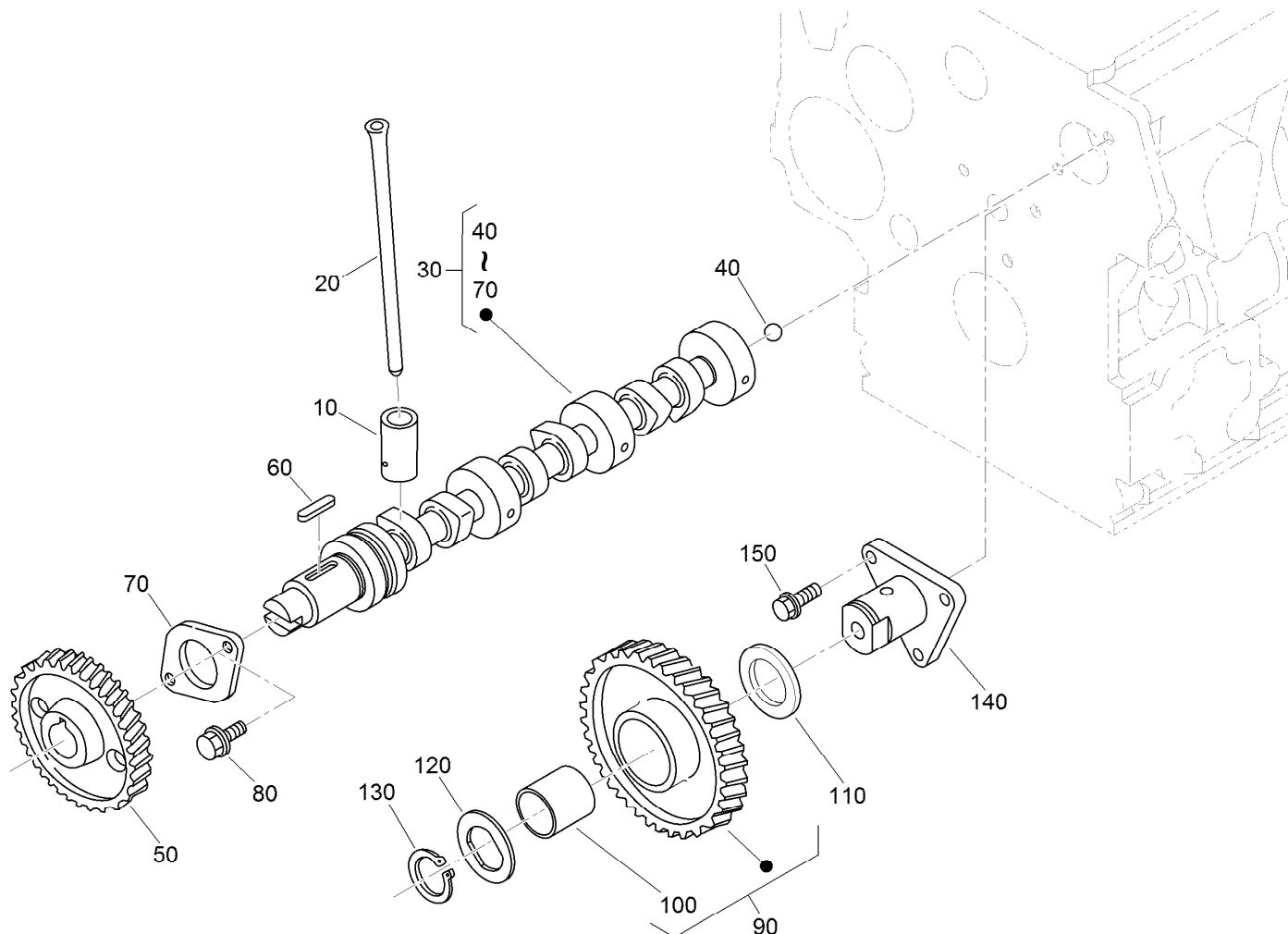
| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 10   | 130-1372    | 1    | Cylinder Head Cover ASM |
| 30   | 130-1249    | 1    | Gasket-Head Cover       |
| 40   | 110-3715    | 1    | Valve-Breather          |
| 50   | 110-3714    | 1    | Cover-Breather          |
| 60   | 98-9364     | 4    | Screw (With Washer)     |
| 70   | 98-7766     | 1    | Pipe-Return, Water      |
| 80   | 98-9455     | 3    | Nut-Cap                 |
| 90   | 98-9454     | 3    | Gasket                  |
| 100  | 107-9075    | 1    | Plug-Filler, Oil        |
| 110  | 99-3446     | 1    | O-Ring                  |
| 120  | 107-7836    | 1    | Tube-Breather           |
| 130  | 108-2859    | 1    | Clamp-Hose              |
| 140  | 108-2860    | 1    | Clamp-Hose              |



## Main Bearing Case Assembly

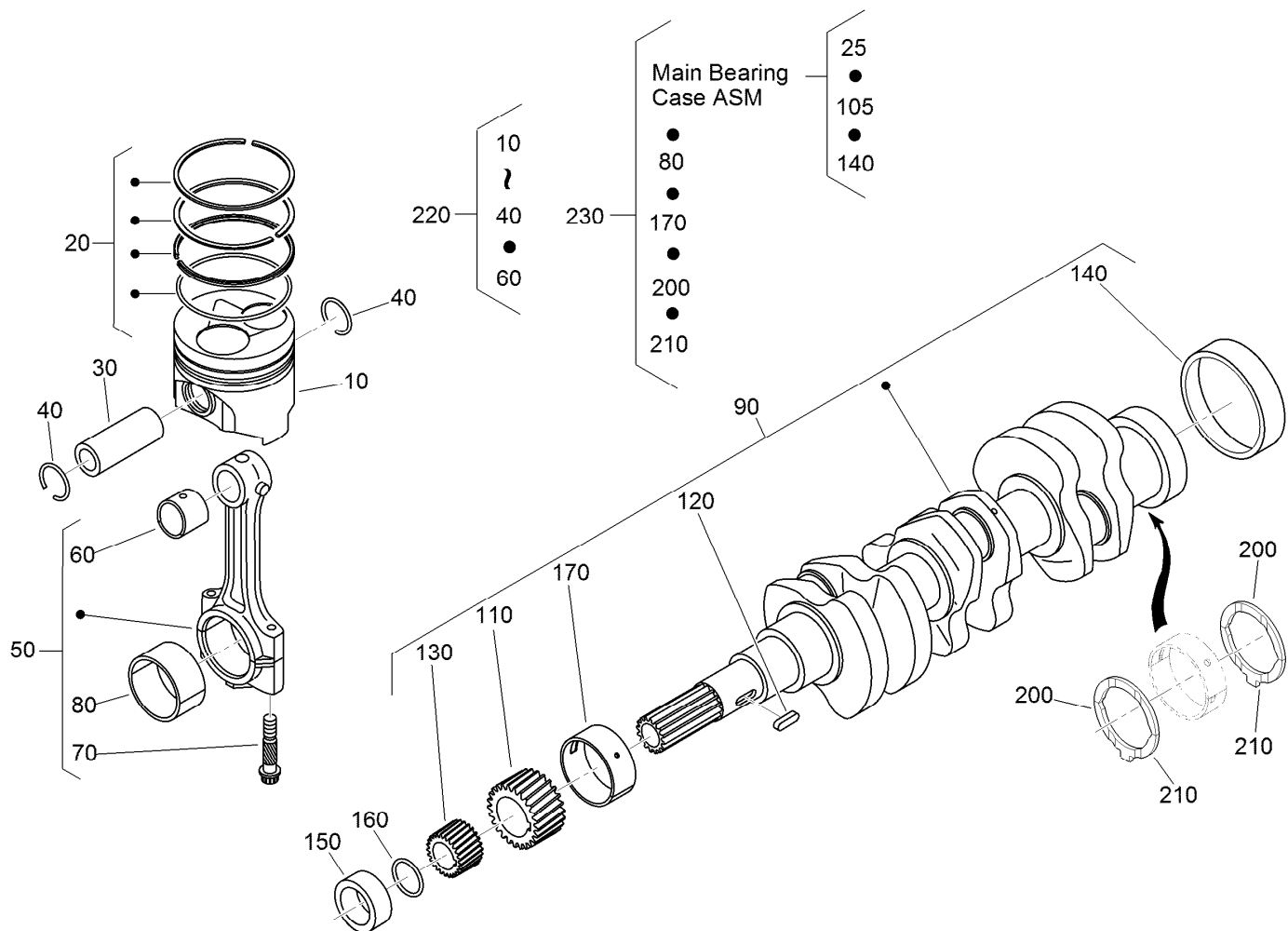
| Ref. | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 10   | 112-7026    | 1    | Wheel Bearing Case ASM    |
| 20   | 98-9484     | 2    | Bolt-Case, Bearing        |
| 25   | 115-4121    | 1    | Metal-Crankshaft (STD)    |
| 25   | 112-7039    | 1    | Metal-Crankshaft (0.2Mm)  |
| 25   | 112-7040    | 1    | Metal-Crankshaft (-0.4Mm) |
| 30   | 127-0440    | 1    | Gasket-Case, Bearing      |
| 40   | 112-7046    | 1    | Cover-Case, Bearing       |
| 50   | 112-0180    | 1    | Seal-Oil                  |
| 60   | 112-7037    | 1    | Gasket-Cover, Case        |
| 70   | 127-0441    | 8    | Bolt                      |
| 80   | 127-0442    | 9    | Bolt                      |

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



## Camshaft and Idle Gear Shaft Assembly

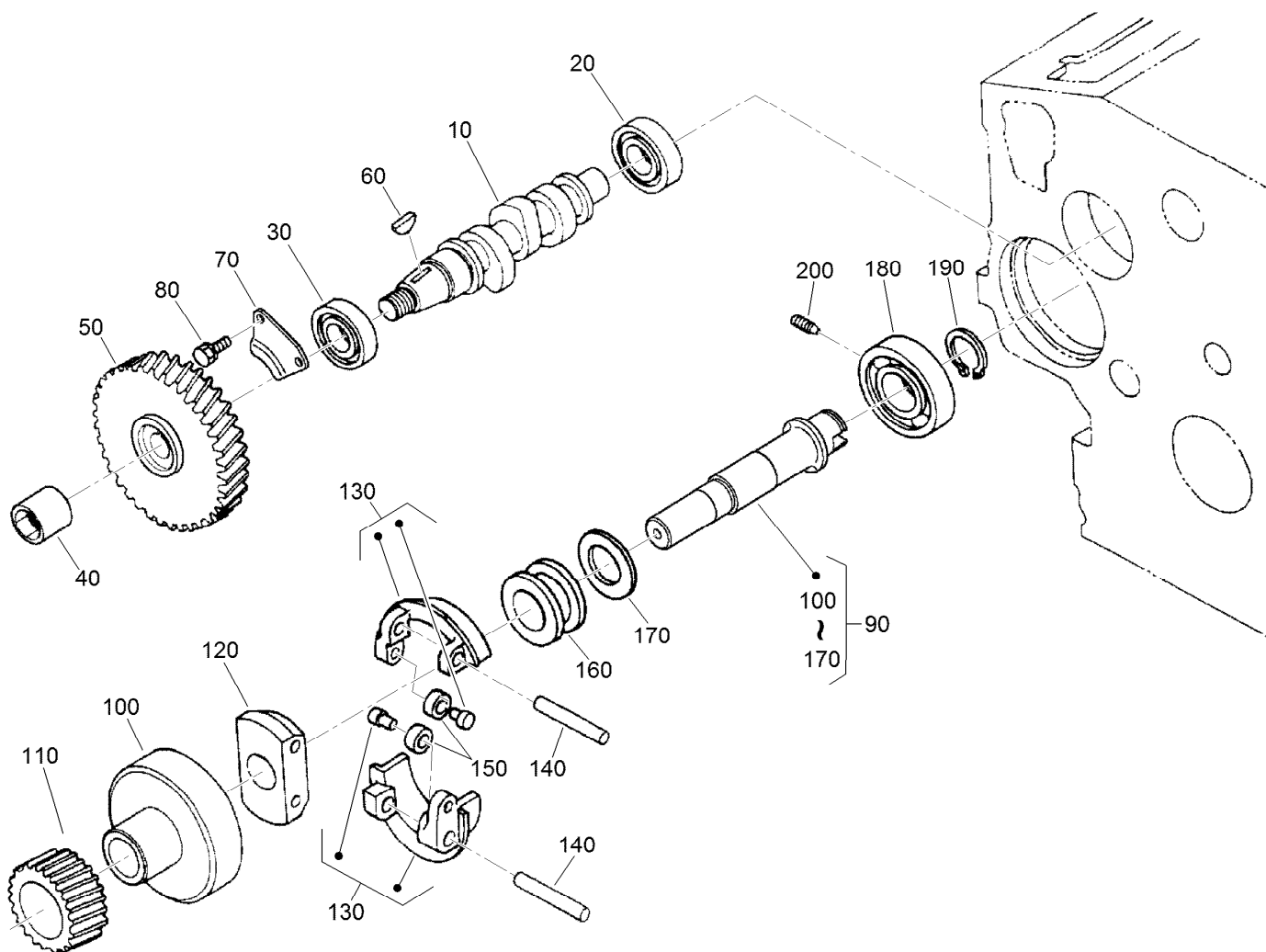
| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 10   | 112-0185    | 6    | Tappet             |
| 20   | 127-0421    | 6    | Rod-Push           |
| 30   | 130-1545    | 1    | Camshaft ASM       |
| 40   | 110-3729    | 1    | Ball               |
| 50   | 98-9512     | 1    | Gear-Cam           |
| 60   | 98-9378     | 1    | Key-Feather        |
| 70   | 98-9510     | 1    | Stopper-Camshaft   |
| 80   | 98-7692     | 2    | Bolt               |
| 90   | 117-7584    | 1    | Idler Gear ASM     |
| 100  | 117-7585    | 1    | Bushing-Gear, Idle |
| 110  | 98-9535     | 1    | Collar-Gear, Idle  |
| 120  | 98-9536     | 1    | Collar-Gear, Idle  |
| 130  | 98-9534     | 1    | Circlip-Gear, Idle |
| 140  | 98-9533     | 1    | Shaft-Gear, Idle   |
| 150  | 98-7692     | 3    | Bolt               |



## Piston and Crankshaft Assembly

| Ref. | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 10   | 130-1546    | 3    | Piston (STD)              |
| 10   | 130-1549    | 3    | Piston (+0.50MM)          |
| 20   | 130-1506    | 3    | Piston Ring ASM (STD)     |
| 20   | 130-1507    | 3    | Piston Ring ASM (+0.50MM) |
| 30   | 98-9513     | 3    | Pin-Piston                |
| 40   | 98-9514     | 6    | Circlip-Pin, Piston       |
| 50   | 117-7586    | 3    | Connecting Rod ASM        |
| 60   | 115-3014    | 3    | Bushing-Pin, Piston       |
| 70   | 98-9517     | 6    | Bolt-Rod, Connecting      |
| 80   | 98-9553     | 3    | Bearing-Rod (STD)         |
| 80   | 117-7587    | 3    | Metal-Crankpin (-0.2MM)   |
| 80   | 117-7588    | 3    | Metal-Crankpin (-0.4MM)   |
| 90   | 130-1375    | 1    | Crankshaft ASM            |
| 110  | 117-7561    | 1    | Gear-Crankshaft           |
| 120  | 98-9666     | 1    | Key                       |
| 130  | 127-0445    | 1    | Gear-Drive, Oil Pump      |
| 140  | 98-9522     | 1    | Sleeve-Crankshaft         |
| 150  | 127-0444    | 1    | Collar-Crankshaft         |

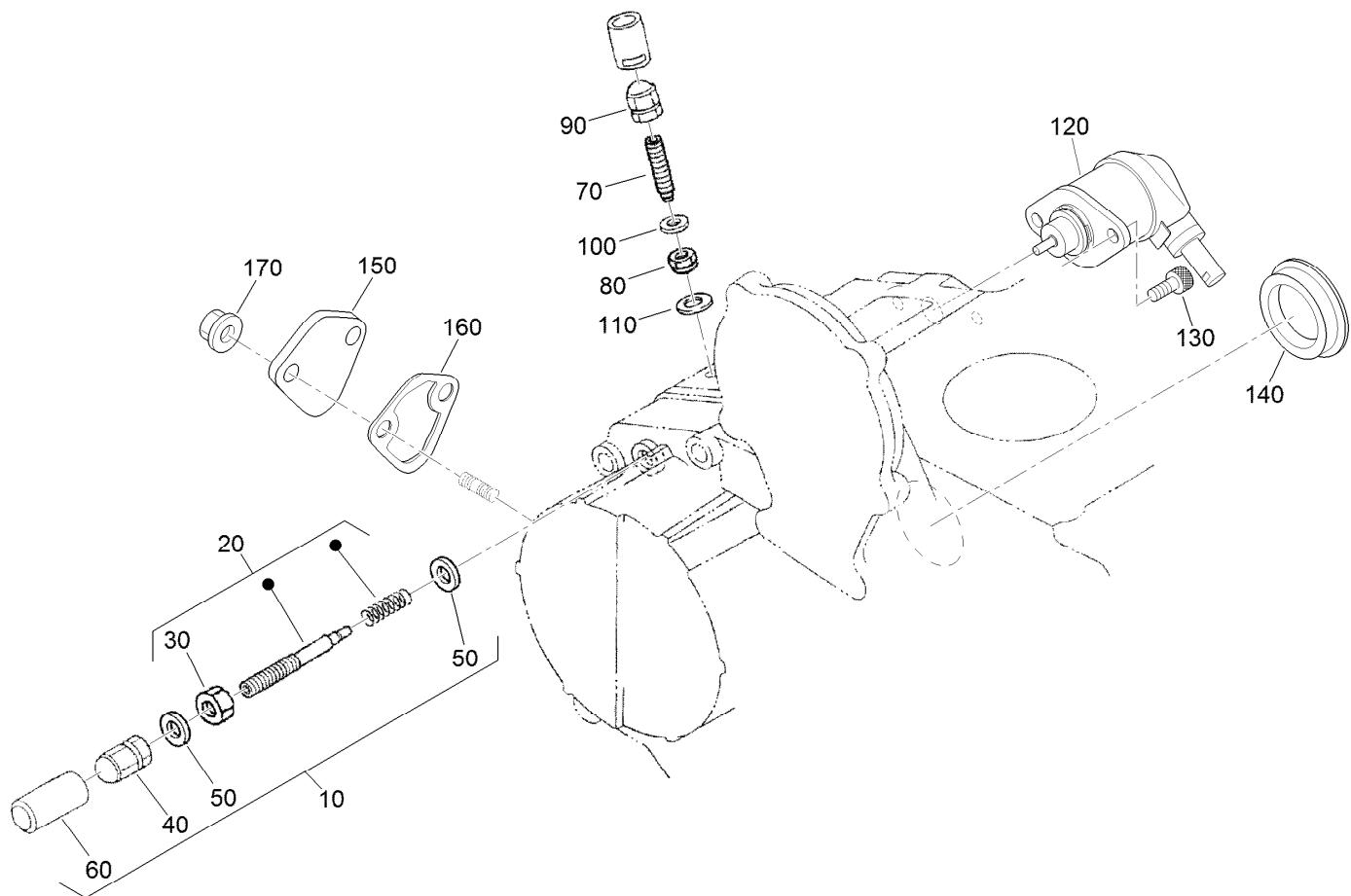
| Ref. | Part Number | Qty. | Description                        |
|------|-------------|------|------------------------------------|
| 160  | 105-3783    | 1    | O-Ring                             |
| 170  | 112-7005    | 1    | Bearing-Main (STD)                 |
| 170  | 98-9528     | 1    | Bearing-Main (-0.2MM)              |
| 170  | 130-1274    | 1    | Metal-Crankshaft (-0.40Mm)         |
| 200  | 98-9413     | 2    | Bearing-Thrust (STD)               |
| 200  | 127-0416    | 2    | Metal-Side (+0.2Mm)                |
| 200  | 127-0417    | 2    | Metal-Side (+0.40Mm)               |
| 210  | 98-9688     | 2    | Bearing-Thrust (STD)               |
| 210  | 127-0437    | 2    | Metal-Side (+0.2MM)                |
| 210  | 127-0438    | 2    | Metal-Side (+0.40MM)               |
| 220  | 130-1547    | 3    | Piston Kit                         |
| 220  | 130-1548    | 3    | Piston Kit                         |
| 230  | 130-1501    | 1    | Engine Metal Kit (STD)             |
| 230  | 130-1498    | 1    | Engine Metal Kit (-0.20Mm/+0.20Mm) |
| 230  | 130-1499    | 1    | Engine Metal Kit (-0.40Mm/+0.40Mm) |



## Fuel Camshaft and Governor Shaft Assembly

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 10   | 98-9459     | 1    | Camshaft-Fuel          |
| 20   | 107-9077    | 1    | Bearing-Ball           |
| 30   | 107-9078    | 1    | Bearing-Ball           |
| 40   | 130-1512    | 1    | Nut                    |
| 50   | 120-2562    | 1    | Gear-Pump, Injection   |
| 60   | 98-9595     | 1    | Key-Woodruff           |
| 70   | 98-9511     | 1    | Stopper-Fuel, Camshaft |
| 80   | 98-7692     | 2    | Bolt                   |
| 90   | 130-1255    | 1    | Governor Shaft ASM     |
| 100  | 98-9562     | 1    | Holder-Gear, Governor  |

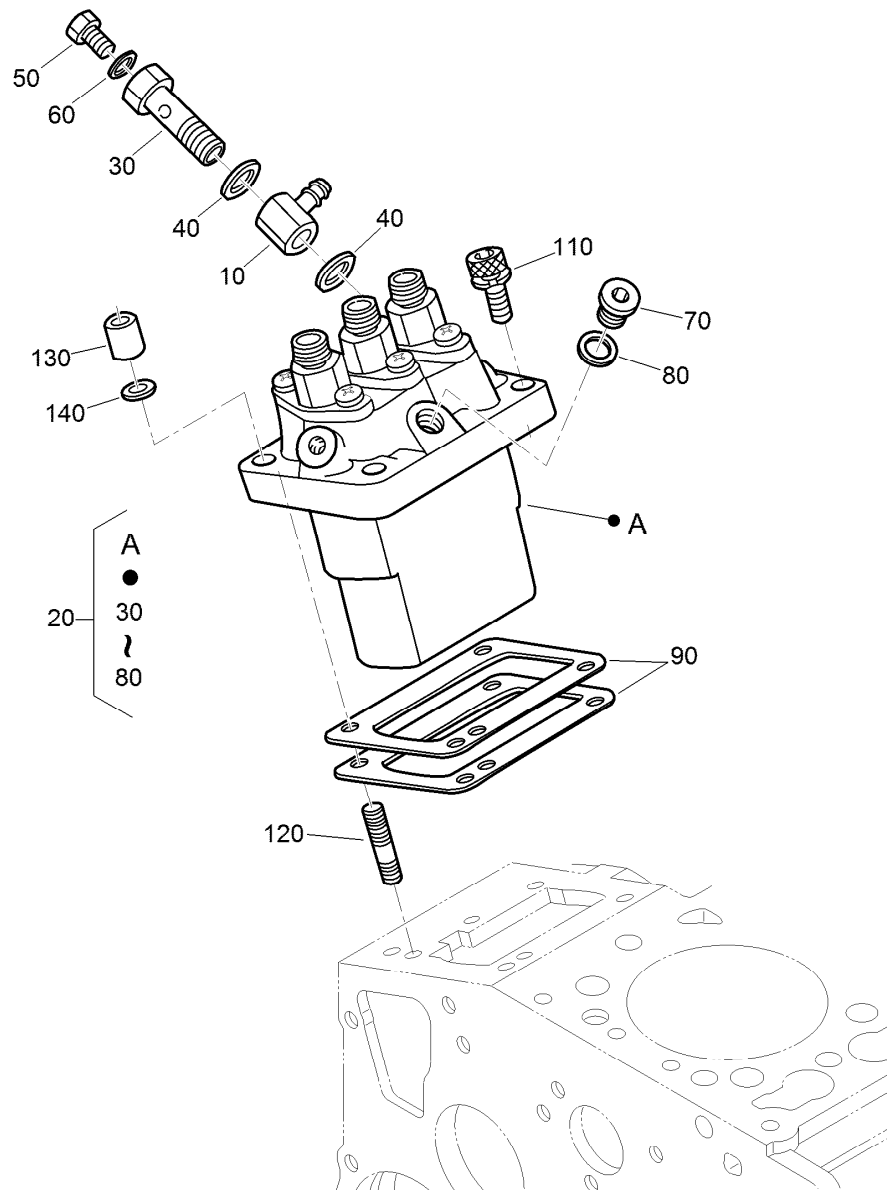
| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 110  | 98-9673     | 1    | Gear-Governor           |
| 120  | 98-9561     | 1    | Holder-Weight, Governor |
| 130  | 130-1240    | 2    | Governor Weight ASM     |
| 140  | 98-9560     | 2    | Shaft-Weight, Governor  |
| 150  | 98-9692     | 2    | Roller                  |
| 160  | 98-9563     | 1    | Sleeve-Governor         |
| 170  | 98-9564     | 1    | Washer-Thrust           |
| 180  | 107-9079    | 1    | Bearing-Ball            |
| 190  | 98-9657     | 1    | Circlip-Shaft, Governor |
| 200  | 98-9565     | 1    | Screw-Set               |



## Idle Apparatus and Stop Solenoid Assembly

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 10   | 98-9678     | 1    | Idle Apparatus ASM |
| 20   | 112-7014    | 1    | Adjusting Bolt ASM |
| 30   | 98-9439     | 1    | Nut                |
| 40   | 112-0181    | 1    | Nut                |
| 50   | 98-7654     | 2    | Gasket             |
| 60   | 98-7656     | 1    | Cap                |
| 70   | 112-7015    | 1    | Bolt-Adjusting     |
| 80   | 100-2175    | 1    | Nut-Lock           |
| 90   | 112-0181    | 1    | Nut                |

| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 100  | 98-7654     | 1    | Gasket            |
| 110  | 107-9081    | 1    | Gasket            |
| 120  | 104-5155    | 1    | Solenoid-Stop     |
| 130  | 130-1155    | 2    | Screw-HSH         |
| 140  | 112-7016    | 1    | Cover-Pump        |
| 150  | 99-3514     | 1    | Cover             |
| 160  | 117-7562    | 1    | Gasket-Pump, Fuel |
| 170  | 100-2203    | 2    | Nut-Flange        |

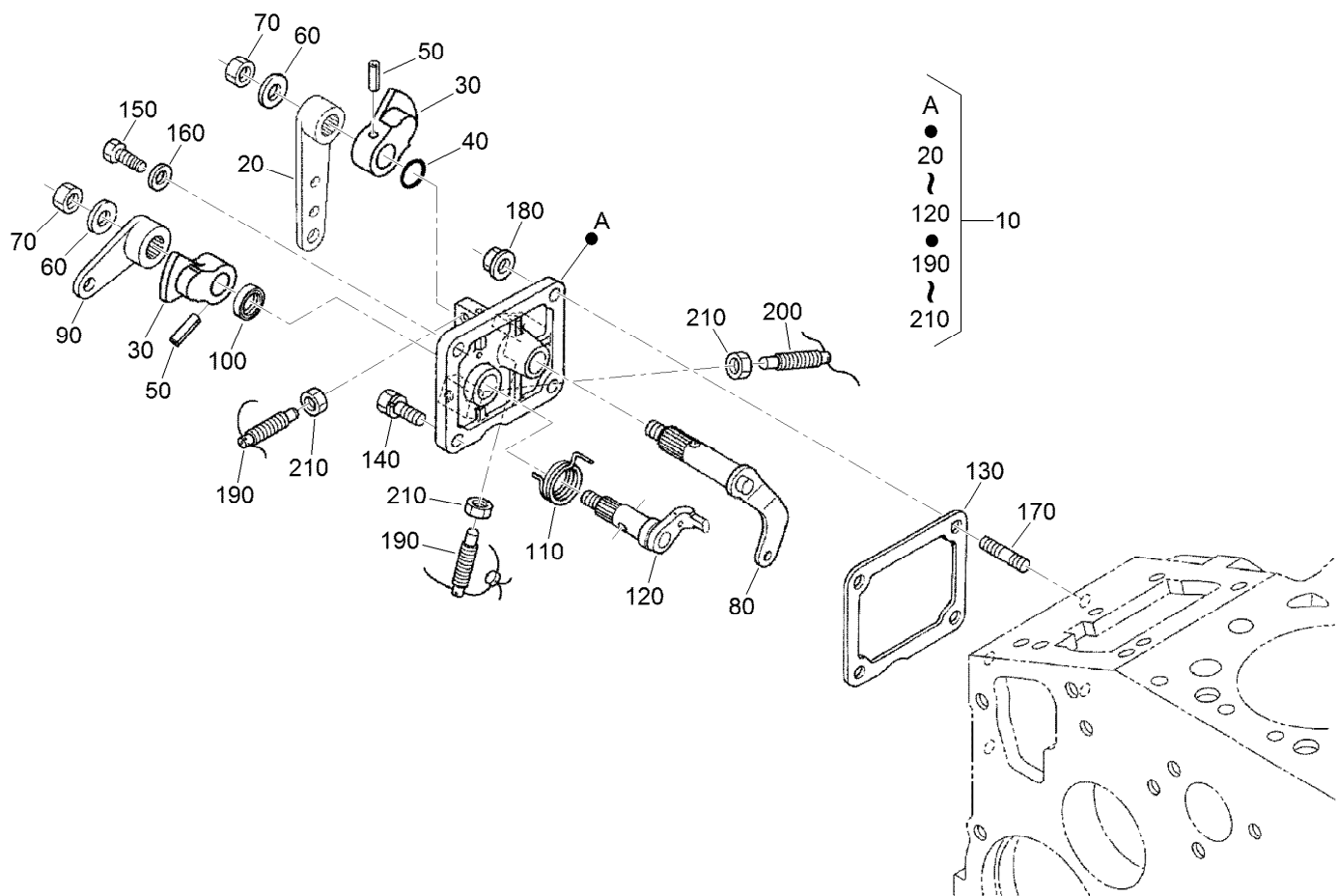


## Injection Pump Assembly

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 10   | 98-9596     | 1    | Joint-Eye               |
| 20   | 98-9643     | 1    | Injection Pump ASM      |
| 30   | 98-9464     | 1    | Bolt-Joint              |
| 40   | 98-9445     | 2    | Gasket                  |
| 50   | 98-9430     | 1    | Screw                   |
| 60   | 98-9446     | 1    | Gasket                  |
| 70   | 98-9466     | 1    | Plug                    |
| 80   | 98-9451     | 1    | Gasket                  |
| 90   | 98-9456     | 1    | Shim-Injection (0.20MM) |

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

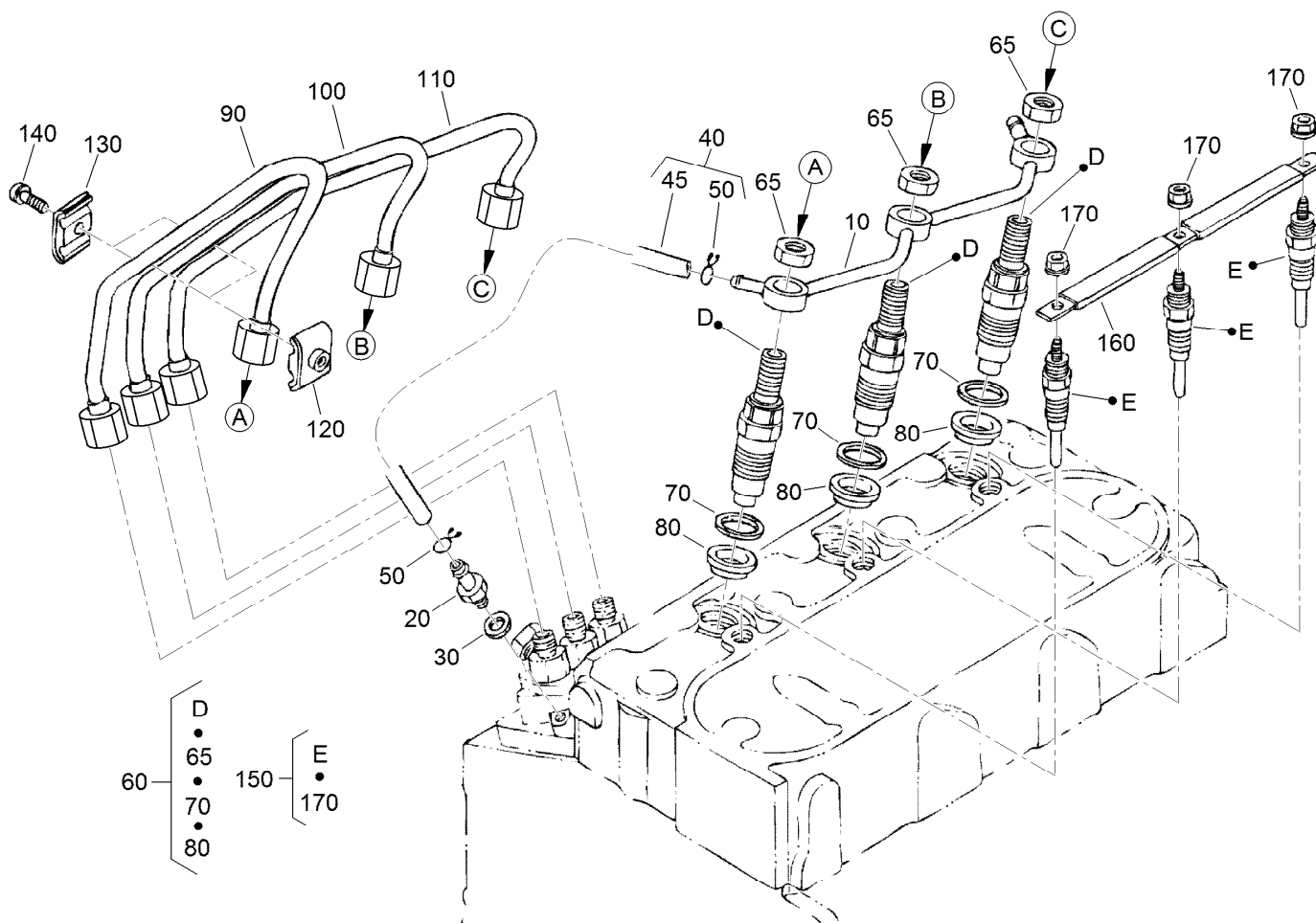




## Speed Control Plate Assembly

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

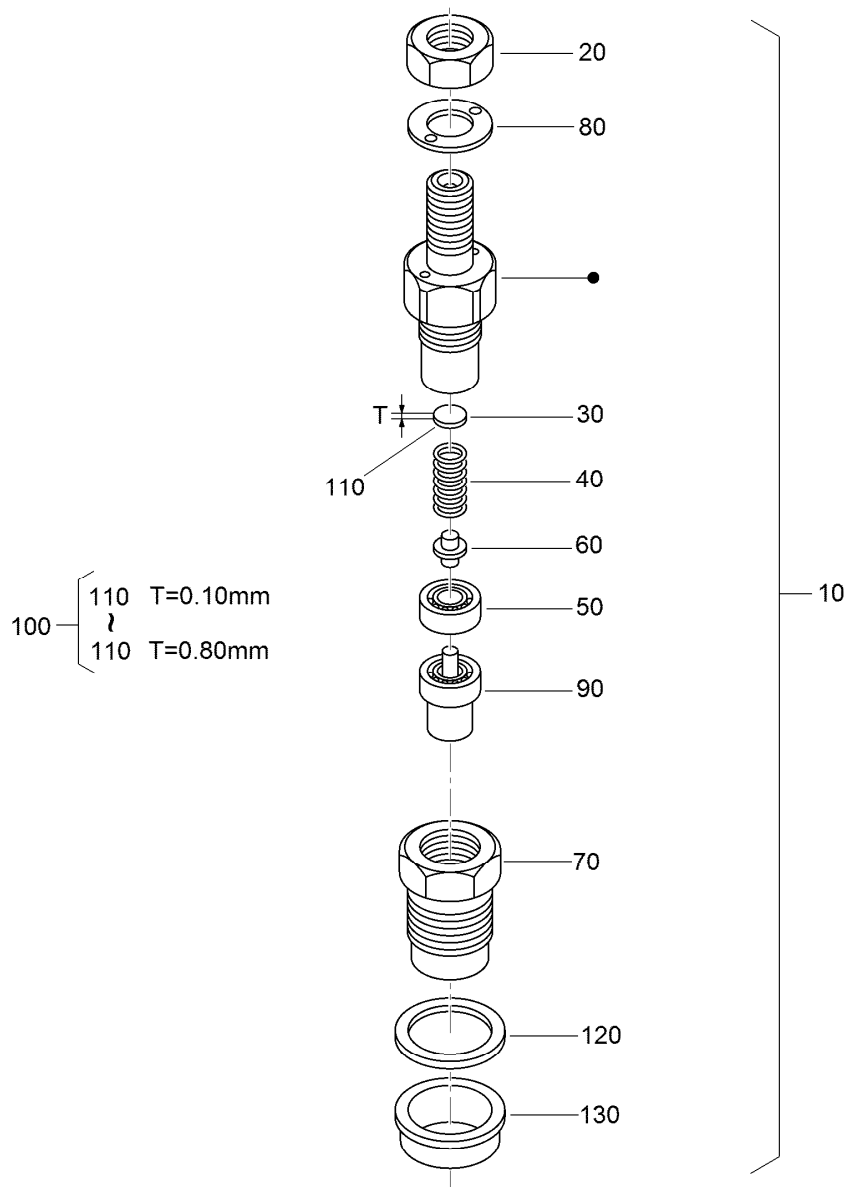
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 120  | 98-9664     | 1    | Shaft-Lever, Stop |
| 130  | 98-9637     | 1    | Gasket            |
| 140  | 98-7692     | 1    | Bolt              |
| 150  | 127-0401    | 1    | Bolt-Hex          |
|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



## Nozzle Holder and Glow Plug Assembly

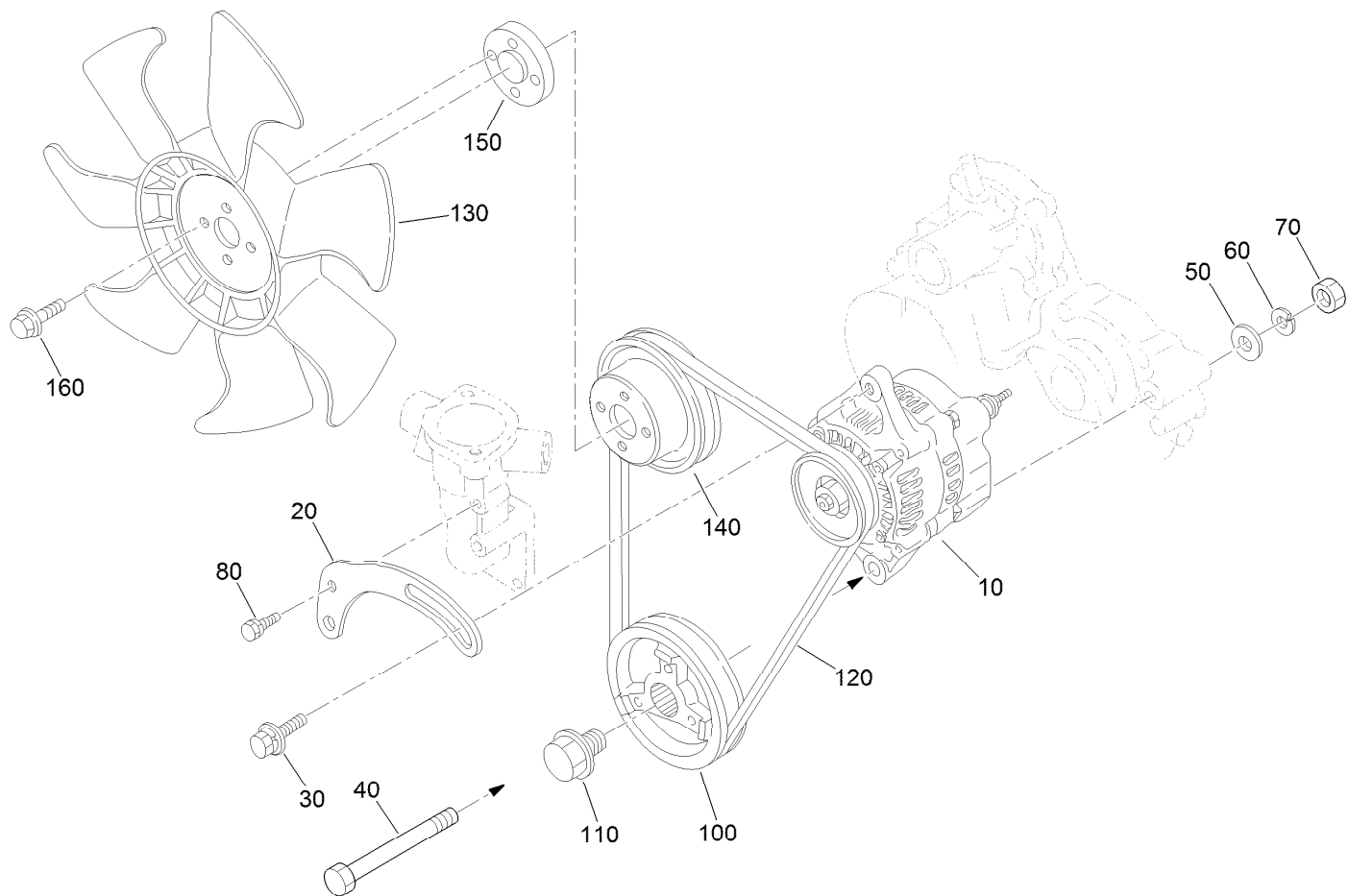
| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 10   | 98-9620     | 1    | Overflow Pipe ASM  |
| 20   | 98-9431     | 1    | Screw-Bleeder, Air |
| 30   | 98-7654     | 1    | Gasket             |
| 40   | 98-9420     | 1    | Overflow Pipe ASM  |
| 45   | 112-0182    | 1    | Pipe-Overflow      |
| 50   | 98-7671     | 2    | Clip-Pipe          |
| 60   | 130-1410    | 3    | Nozzle Holder Kit  |
| 65   | 121-2411    | 3    | Nut                |
| 70   | 98-7676     | 3    | Gasket             |
| 80   | 98-7677     | 3    | Seal-Heat          |

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



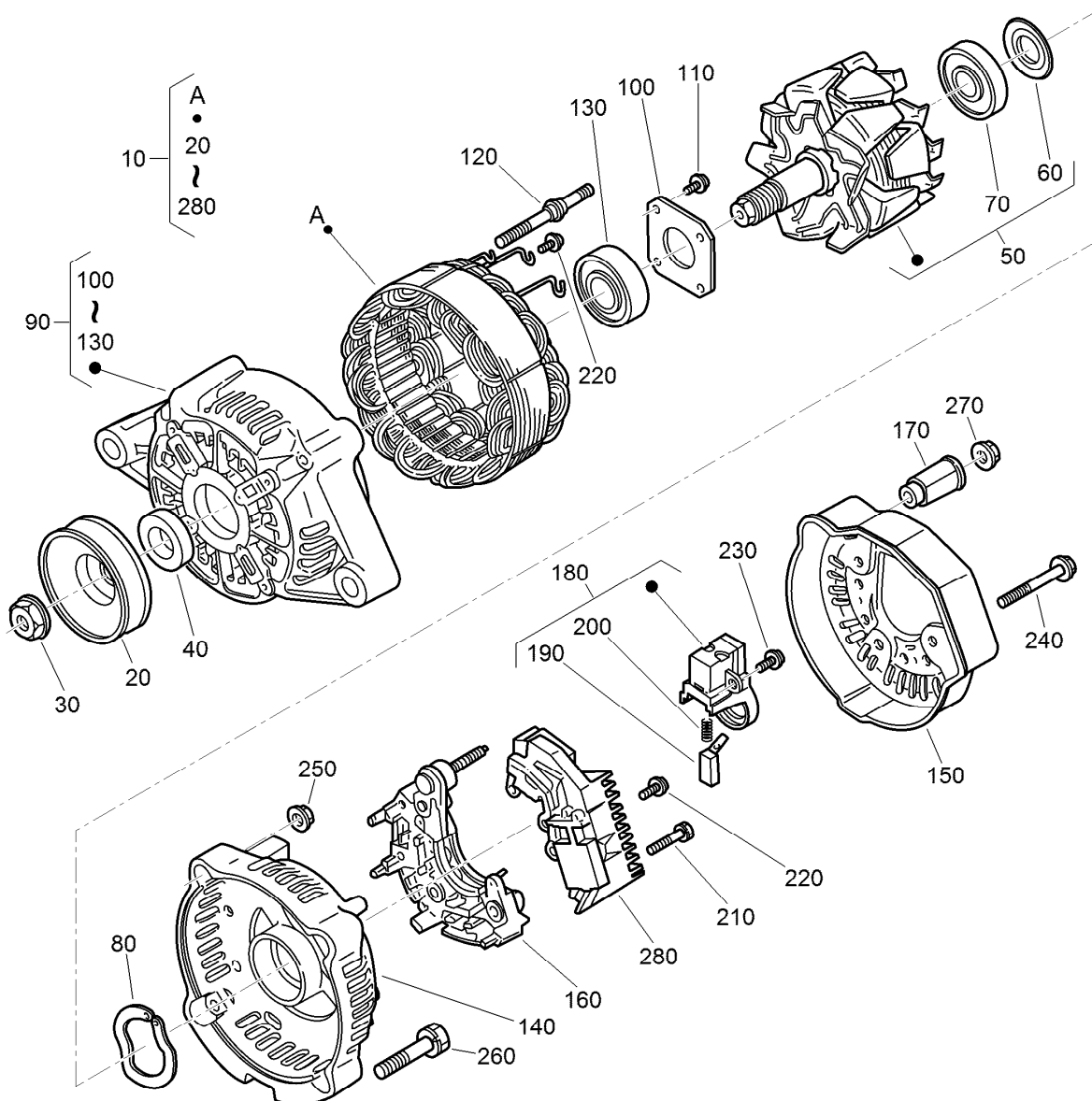
## Nozzle Holder Assembly

| Ref. | Part Number | Qty. | Description            | Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|------|-------------|------|------------------------|
| 10   | 130-1410    | 3    | Nozzle Holder Kit      | 110  | 99-8311     | 3    | Washer-Adjust (0.20MM) |
| 20   | 121-2411    | 3    | Nut                    | 110  | 99-8312     | 3    | Washer-Adjust (0.30MM) |
| 30   | 99-8302     | 3    | Washer-Adjusting       | 110  | 99-8313     | 3    | Washer-Adjust (0.40MM) |
| 40   | 99-8303     | 3    | Spring-Nozzle          | 110  | 99-8314     | 3    | Washer-Adjust (0.50MM) |
| 50   | 99-8304     | 3    | Spacer-Distance        | 110  | 99-8315     | 3    | Washer-Adjust (0.52MM) |
| 60   | 99-8305     | 3    | Rod-Push               | 110  | 99-8316     | 3    | Washer-Adjust (0.54MM) |
| 70   | 99-8306     | 3    | Nut-Nozzle             | 110  | 99-8317     | 3    | Washer-Adjust (0.56MM) |
| 80   | 99-8307     | 3    | Washer-Plain           | 110  | 99-8318     | 3    | Washer-Adjust (0.58MM) |
| 90   | 115-3020    | 3    | Piece-Nozzle           | 110  | 99-8319     | 3    | Washer-Adjust (0.80MM) |
| 100  | 99-8309     | 3    | Adjusting Washer ASM   | 120  | 98-7676     | 3    | Gasket                 |
| 110  | 99-8310     | 3    | Washer-Adjust (0.10MM) | 130  | 98-7677     | 3    | Seal-Heat              |



## Alternator, Pulley and Fan Assembly

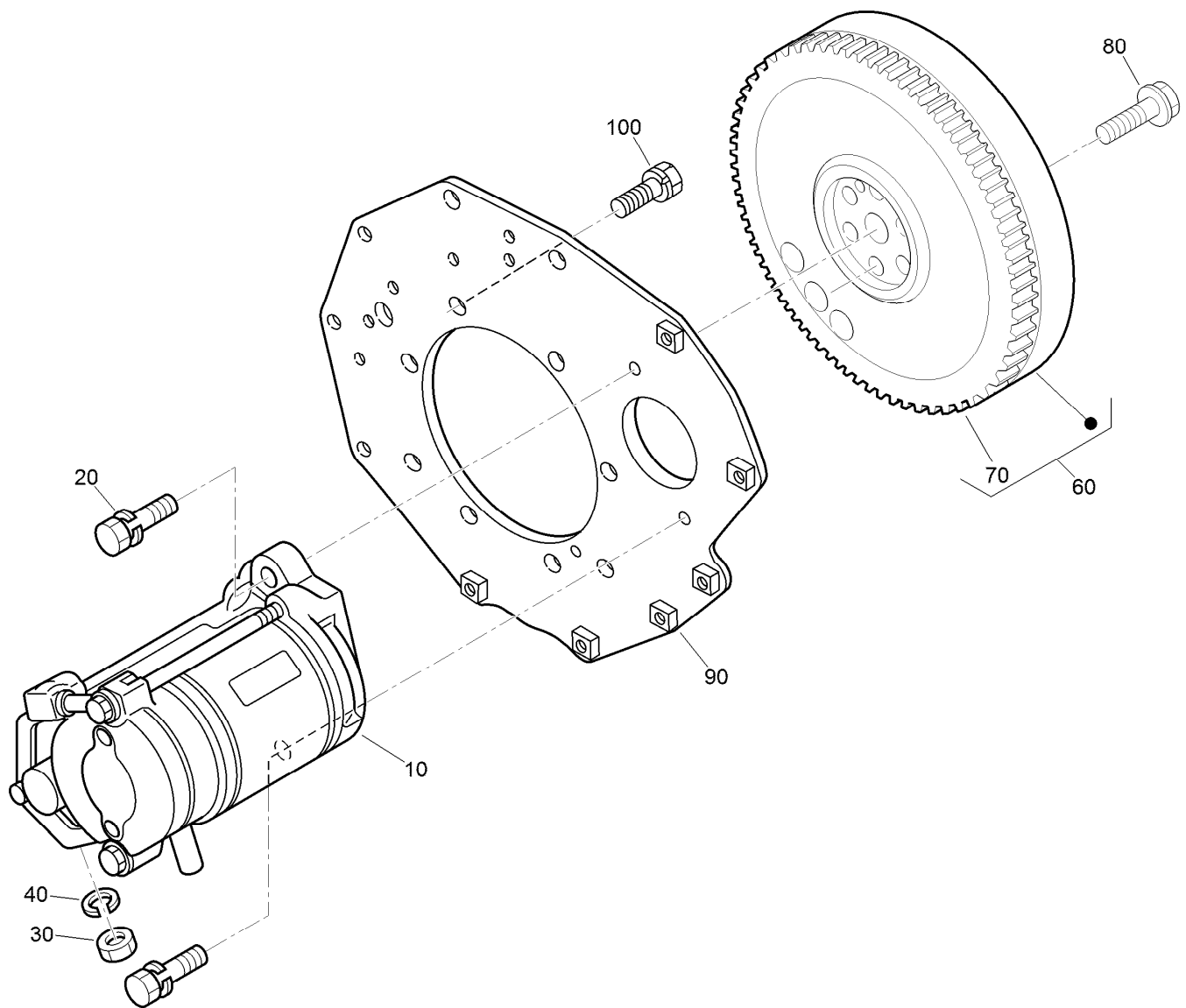
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 10   | 98-9474     | 1    | Alternator ASM    |
| 20   | 112-7047    | 1    | Stay-Dynamo       |
| 30   | 108-7088    | 1    | Bolt              |
| 40   | 98-9360     | 1    | Bolt              |
| 50   | 98-9366     | 1    | Washer-Plain      |
| 60   | 98-7738     | 1    | Washer-Spring     |
| 70   | 98-7737     | 1    | Nut               |
| 80   | 98-7692     | 1    | Bolt              |
| 100  | 98-9473     | 1    | Pulley-Drive, Fan |
| 110  | 98-9585     | 1    | Bolt              |
| 120  | 104-3494    | 1    | Belt-V            |
| 130  | 104-4246    | 1    | Fan-Engine        |
| 140  | 130-1567    | 1    | Pulley-Fan        |
| 150  | 108-2872    | 1    | Collar-Fan        |
| 160  | 108-2873    | 4    | Bolt-Flange       |



## Alternator Components Assembly

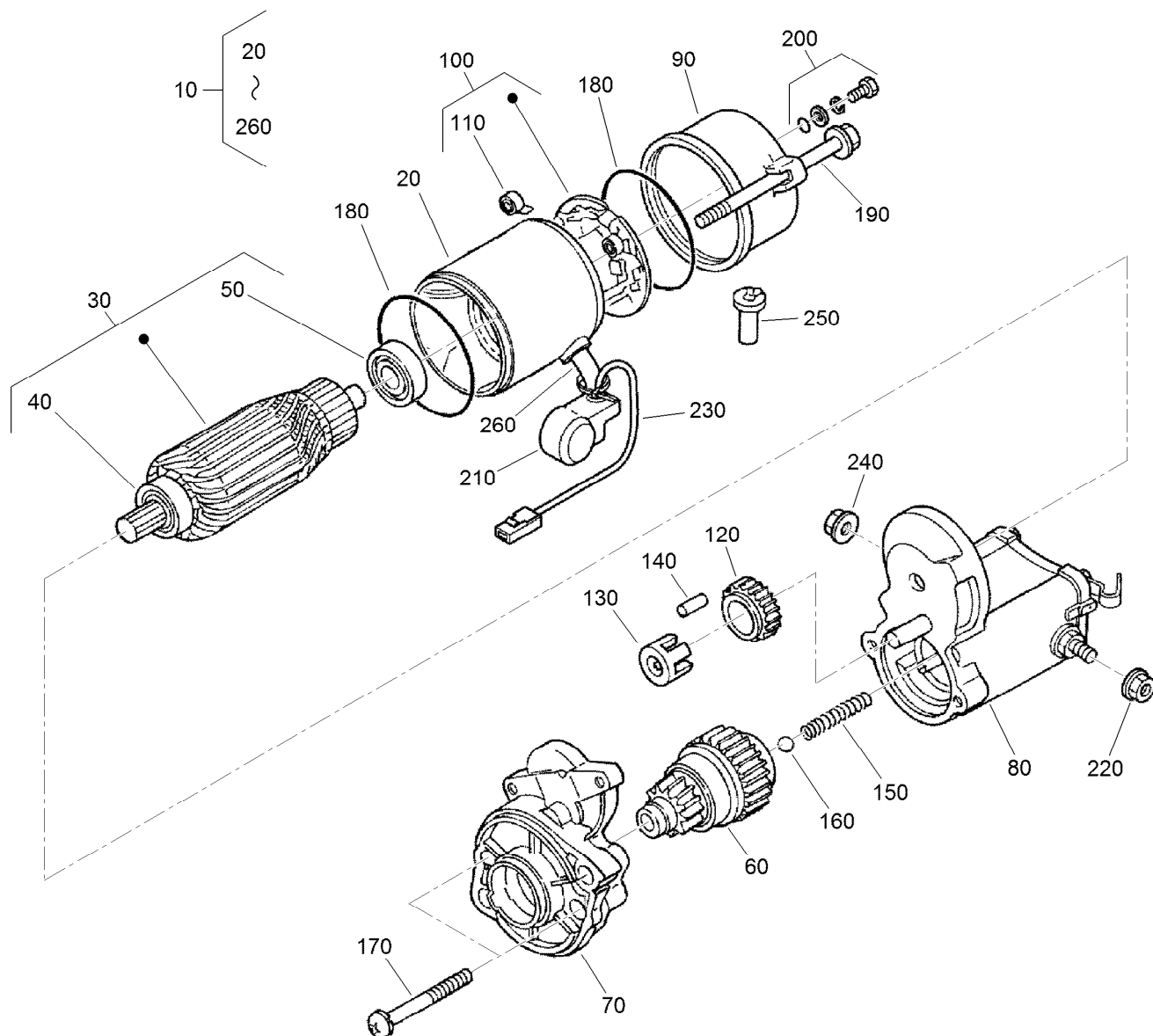
| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 10   | 98-9474     | 1    | Alternator ASM      |
| 20   | 98-9453     | 1    | Pulley-Dynamo       |
| 30   | 98-7708     | 1    | Nut                 |
| 40   | 98-7709     | 1    | Collar              |
| 50   | 107-0136    | 1    | Rotor ASM           |
| 60   | 98-7711     | 1    | Cover-Bearing       |
| 70   | 107-0138    | 1    | Bearing-Ball        |
| 80   | 98-7713     | 1    | Washer-Thrust       |
| 90   | 107-0139    | 1    | Drive End Frame ASM |
| 100  | 98-7715     | 1    | Plate-Retainer      |
| 110  | 98-7716     | 4    | Screw-Head, Round   |
| 120  | 98-7717     | 2    | Bolt-Through        |
| 130  | 107-0137    | 1    | Bearing-Ball        |
| 140  | 107-9087    | 1    | Frame-End           |

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 150  | 107-0140    | 1    | Cover-End          |
| 160  | 127-1612    | 1    | Rectifier ASM      |
| 170  | 98-7722     | 1    | Bushing-Insulation |
| 180  | 107-0141    | 1    | Brush Holder ASM   |
| 190  | 98-7724     | 2    | Brush              |
| 200  | 98-7725     | 2    | Spring-Brush       |
| 210  | 98-7726     | 2    | Screw-Head, Round  |
| 220  | 98-7727     | 6    | Screw-Head, Round  |
| 230  | 98-7728     | 1    | Screw-Head, Round  |
| 240  | 98-7729     | 3    | Bolt               |
| 250  | 98-7730     | 2    | Nut                |
| 260  | 98-7731     | 2    | Bolt               |
| 270  | 98-7732     | 1    | Nut                |
| 280  | 110-3799    | 1    | Regulator ASM      |



## Starter and Flywheel Assembly

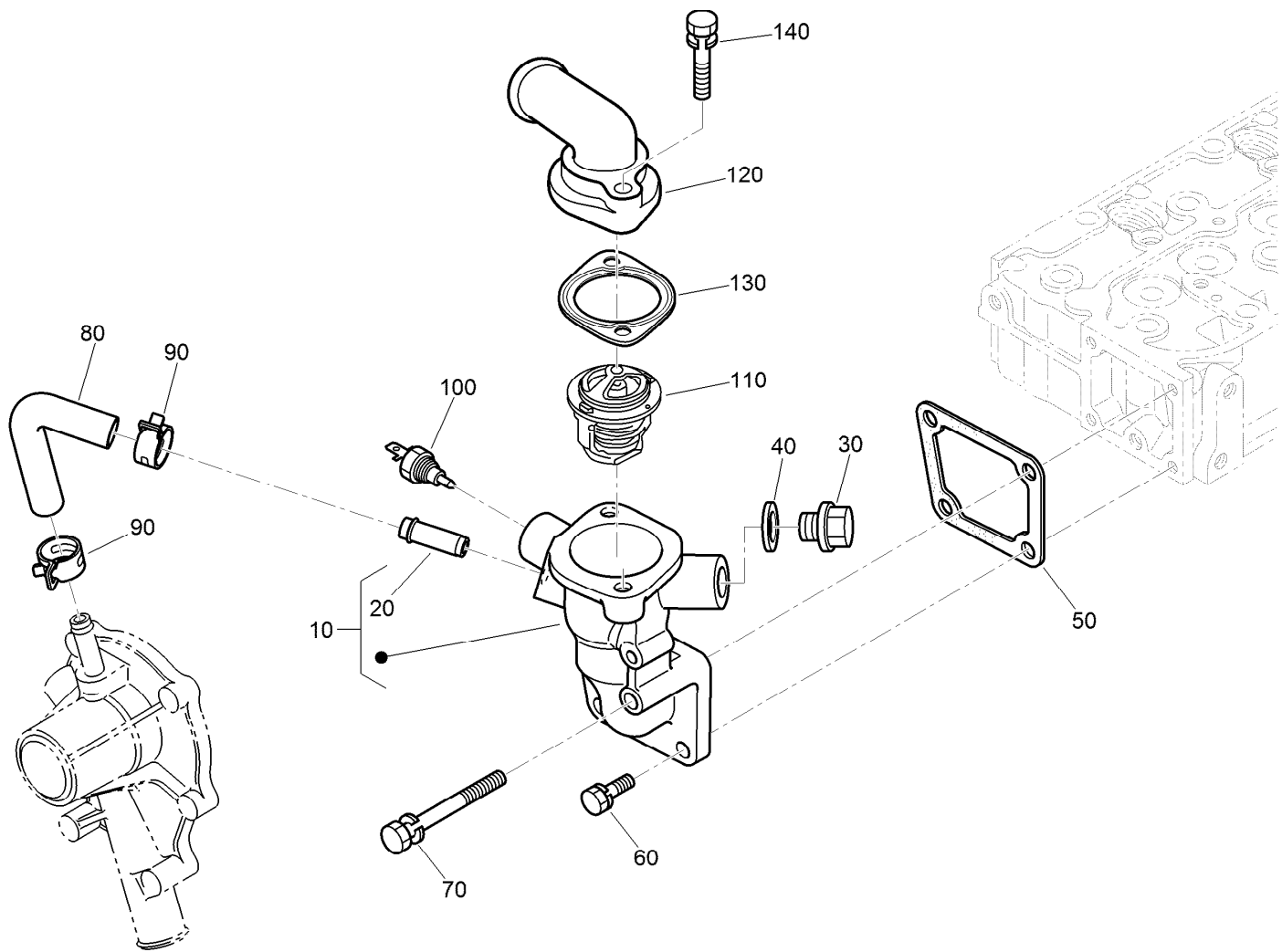
| Ref. | Part Number | Qty. | Description     |
|------|-------------|------|-----------------|
| 10   | 98-9705     | 1    | Starter ASM     |
| 20   | 98-7697     | 2    | Bolt            |
| 30   | 98-7739     | 1    | Nut             |
| 40   | 105-2893    | 1    | Washer-Spring   |
| 60   | 105-3784    | 1    | Flywheel ASM    |
| 70   | 115-3015    | 1    | Gear-Ring       |
| 80   | 98-9537     | 6    | Bolt-Flywheel   |
| 90   | 98-9486     | 1    | Plate-End, Rear |
| 100  | 98-9392     | 8    | Bolt            |



## Starter Component Assembly

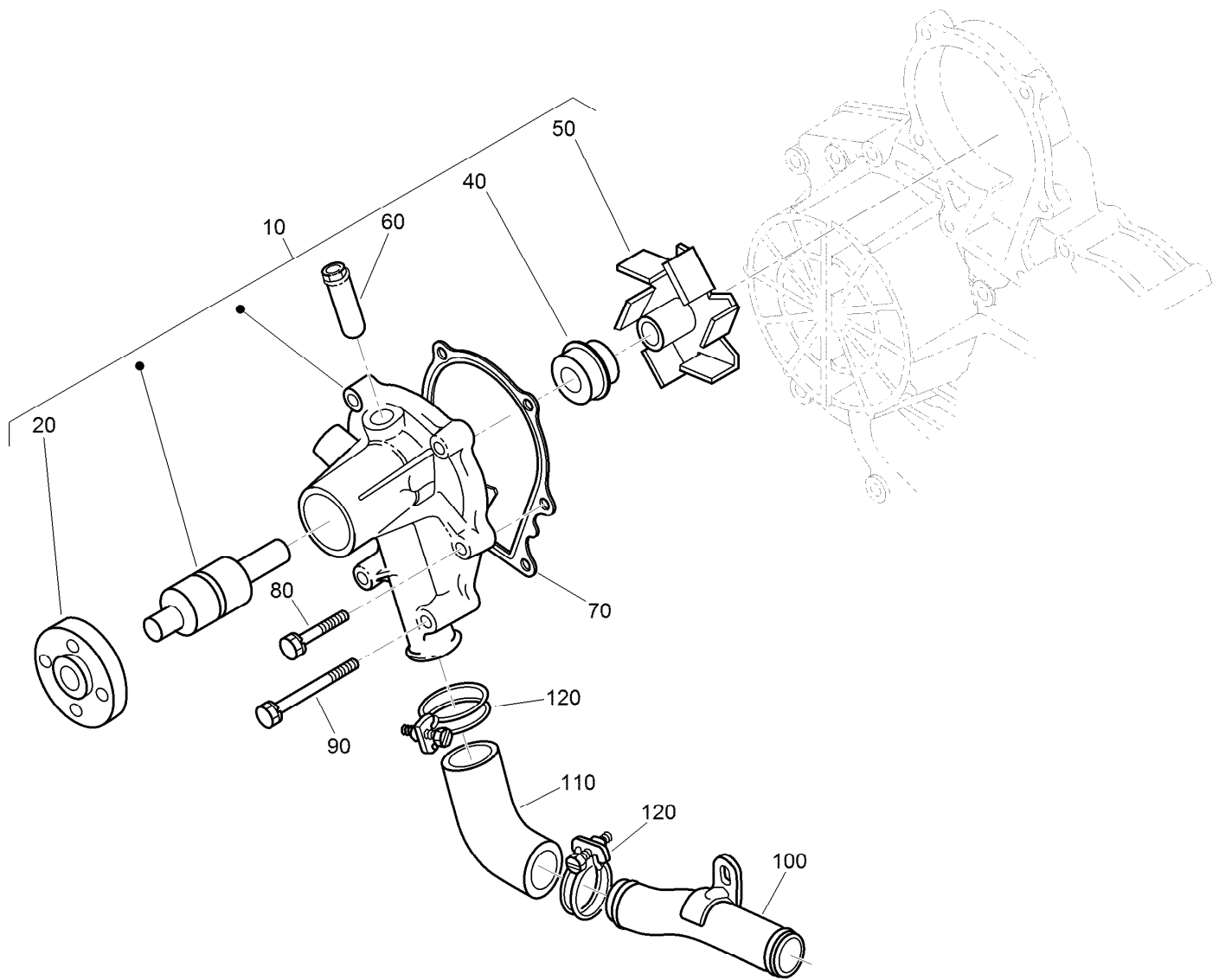
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 98-9705     | 1    | Starter ASM          |
| 20   | 104-8608    | 1    | Yoke ASM             |
| 30   | 98-7742     | 1    | Armature ASM         |
| 40   | 98-7744     | 1    | Bearing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

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



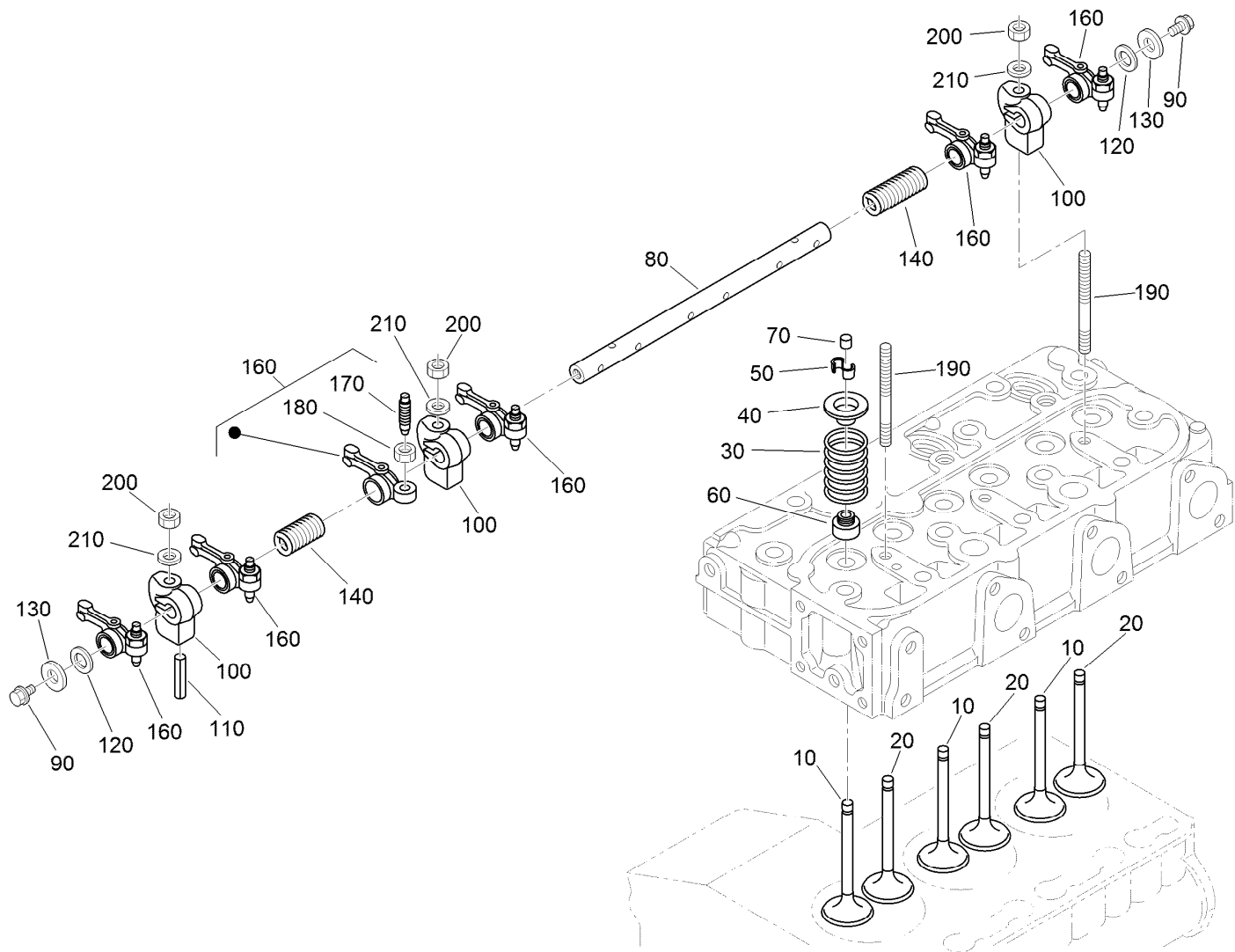
## Water Flange and Thermostat Assembly

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 98-9713     | 1    | Water Flange ASM     |
| 20   | 98-9580     | 1    | Pipe-Return, Water   |
| 30   | 100-2203    | 2    | Nut-Flange           |
| 30   | 105-3747    | 1    | Plug                 |
| 40   | 99-3583     | 1    | Gasket               |
| 50   | 98-9638     | 1    | Gasket-Flange, Water |
| 60   | 98-7692     | 3    | Bolt                 |
| 70   | 98-9356     | 1    | Bolt                 |
| 80   | 98-9578     | 1    | Pipe-Return, Water   |
| 90   | 125-9078    | 2    | Clamp-Hose           |
| 100  | 98-9719     | 1    | Thermoswitch         |
| 110  | 98-7778     | 1    | Thermostat ASM       |
| 120  | 104-4804    | 1    | Outlet-Water         |
| 130  | 105-3748    | 1    | Gasket-Thermostat    |
| 140  | 98-7777     | 2    | Bolt                 |



## Water Pump and Water Pipe Assembly

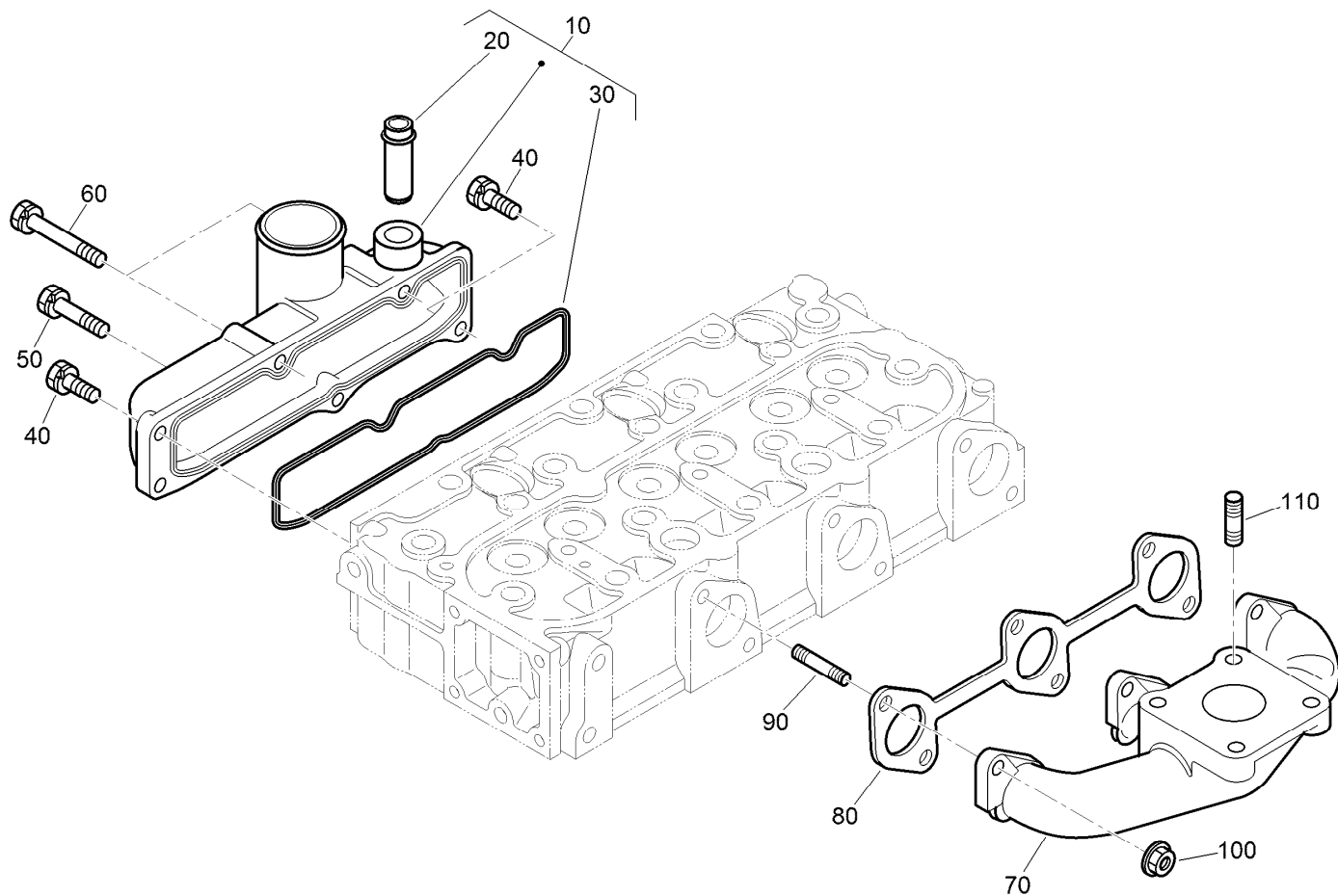
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 107-9089    | 1    | Water Pump ASM       |
| 20   | 99-3516     | 1    | Flange-Pump, Water   |
| 40   | 105-3750    | 1    | Mechanical Seal ASM  |
| 50   | 112-7017    | 1    | Impeller-Pump,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



## Valve and Rocker Arm Assembly

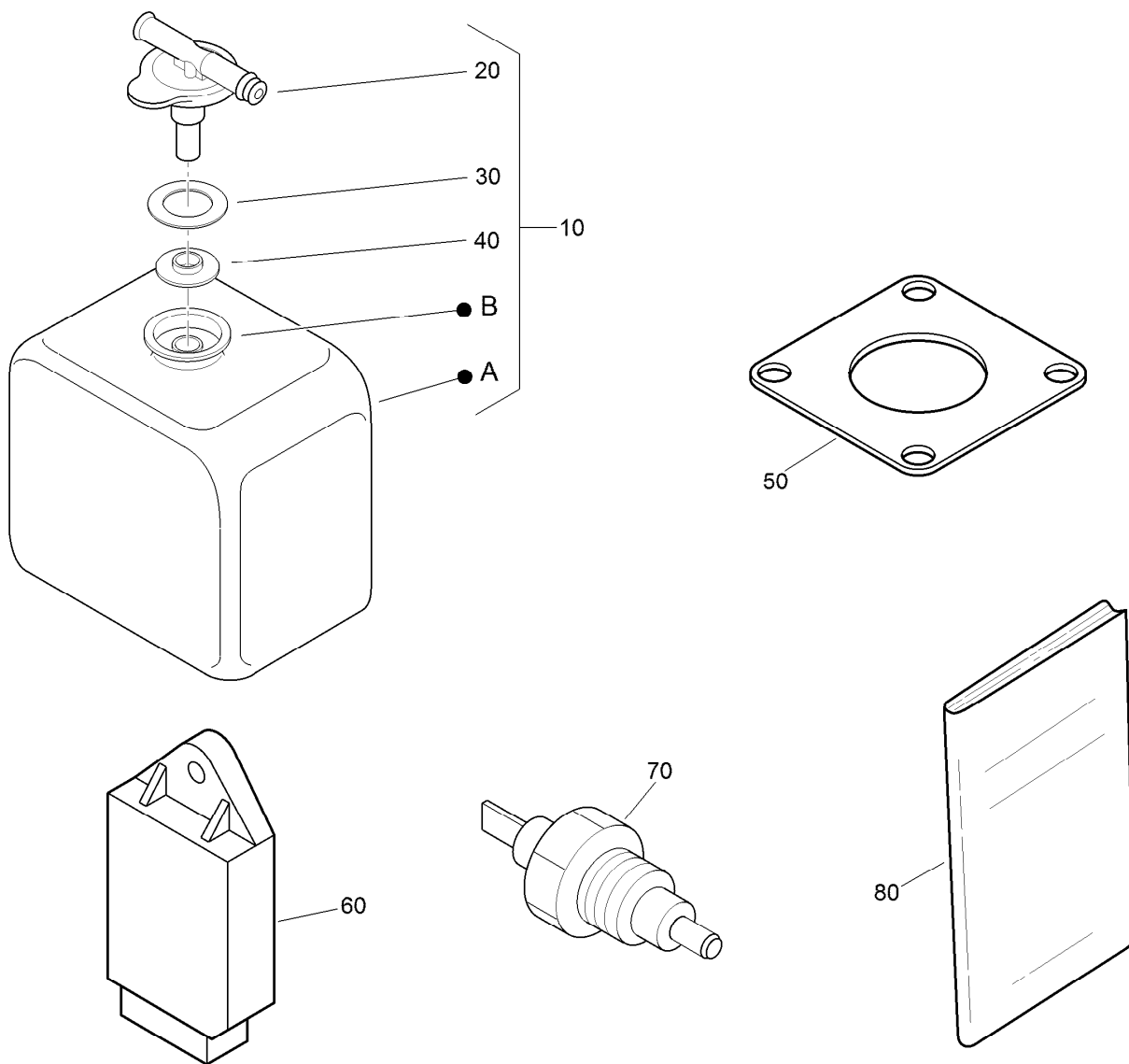
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 112-7018    | 3    | Valve-Inlet          |
| 20   | 120-2564    | 3    | Valve-Exhaust        |
| 30   | 98-9648     | 6    | Spring-Valve         |
| 40   | 107-9092    | 6    | Retainer-Spring      |
| 50   | 117-7572    | 6    | Collet-Spring, Valve |
| 60   | 99-8385     | 6    | Seal-Stem, Valve     |
| 70   | 98-9497     | 6    | Cap-Valve            |
| 80   | 130-1248    | 1    | Shaft-Arm, Rocker    |
| 90   | 99-8363     | 2    | Bolt-Flange          |
| 100  | 98-9505     | 3    | Bracket-Arm, Rocker  |

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 110  | 105-3758    | 1    | Pin-Spring               |
| 120  | 98-9507     | 2    | Washer-Shaft, Rocker Arm |
| 130  | 110-3832    | 2    | Washer-Plain             |
| 140  | 98-9504     | 2    | Spring-Arm, Rocker       |
| 160  | 112-7020    | 6    | Rocker Arm ASM           |
| 170  | 98-9502     | 6    | Screw-Adjusting          |
| 180  | 98-9503     | 6    | Nut                      |
| 190  | 98-9506     | 3    | Stud                     |
| 200  | 98-9393     | 3    | Nut                      |
| 210  | 98-9385     | 3    | Washer-Flat              |



## Inlet and Exhaust Manifold Assembly

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



## Miscellaneous Engine Parts

| Ref. | Part Number | Qty. | Description     |
|------|-------------|------|-----------------|
| 10   | 104-9318    | 1    | Bottle-Overflow |
| 20   | 115-4132    | 1    | Cap             |
| 30   | 105-3755    | 1    | Gasket          |
| 40   | 105-3756    | 1    | Plate           |
| 50   | 99-8343     | 1    | Gasket-Muffler  |
| 60   | 98-7611     | 1    | Controller-Glow |
| 70   | 106-7772    | 1    | Thermoswitch    |
| 80   | 130-1543    | 1    | Manual-Operator |

# Attachments and Accessories

## For 30849 Groundsmaster 3505-D Rotary Mower

| Product Name                              | Model/Part  |
|-------------------------------------------|-------------|
| Blade-High Lift .....                     | 104-5183    |
| Blade-Angle Sail .....                    | 105-9810-03 |
| Blade-Atomic .....                        | 107-0235-03 |
| 27in Blade Service Pack (qty 6) .....     | 108-1462    |
| Blade-Combo.....                          | 108-9026-03 |
| Sectional Roller Assembly .....           | 117-5121    |
| 400-hour Filter Maintenance MVP Kit ..... | 30058       |
| 400-hour Filter Maintenance MVP Kit ..... | 30090       |
| Premium Seat Kit.....                     | 30629       |
| 27in Rotary Cutting Unit.....             | 30834       |
| Leaf Mulching Kit .....                   | 30836       |
| Work Light Kit .....                      | 30841       |

**Notes:**

**Notes:**



**Count on it.**