



**Count on it.**

Form No. 3446-284 Rev C

# Parts Catalog

## Groundsmaster® 3505-D Rotary Mower

Model No. 30849—Serial No. 409000000 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.

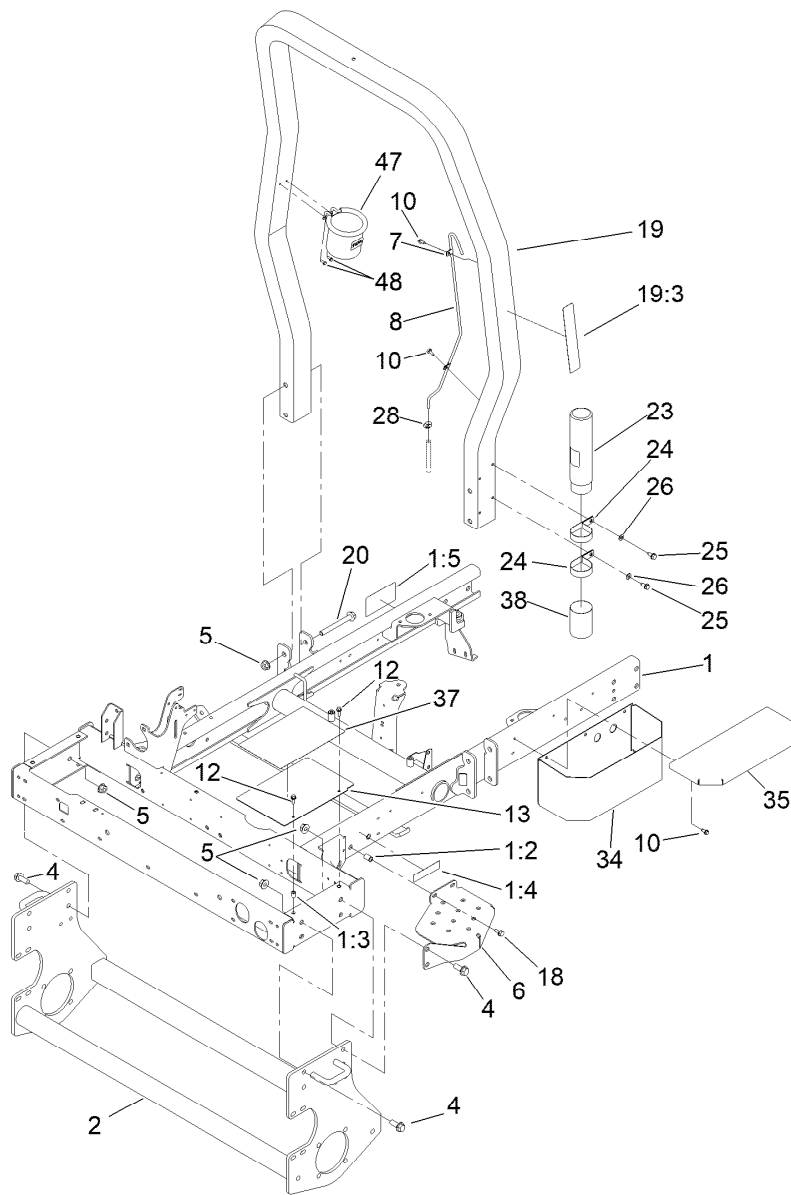
For example, in an illustration, the reference number 2X 37 means that two of the parts identified by reference number 37 are indicated.

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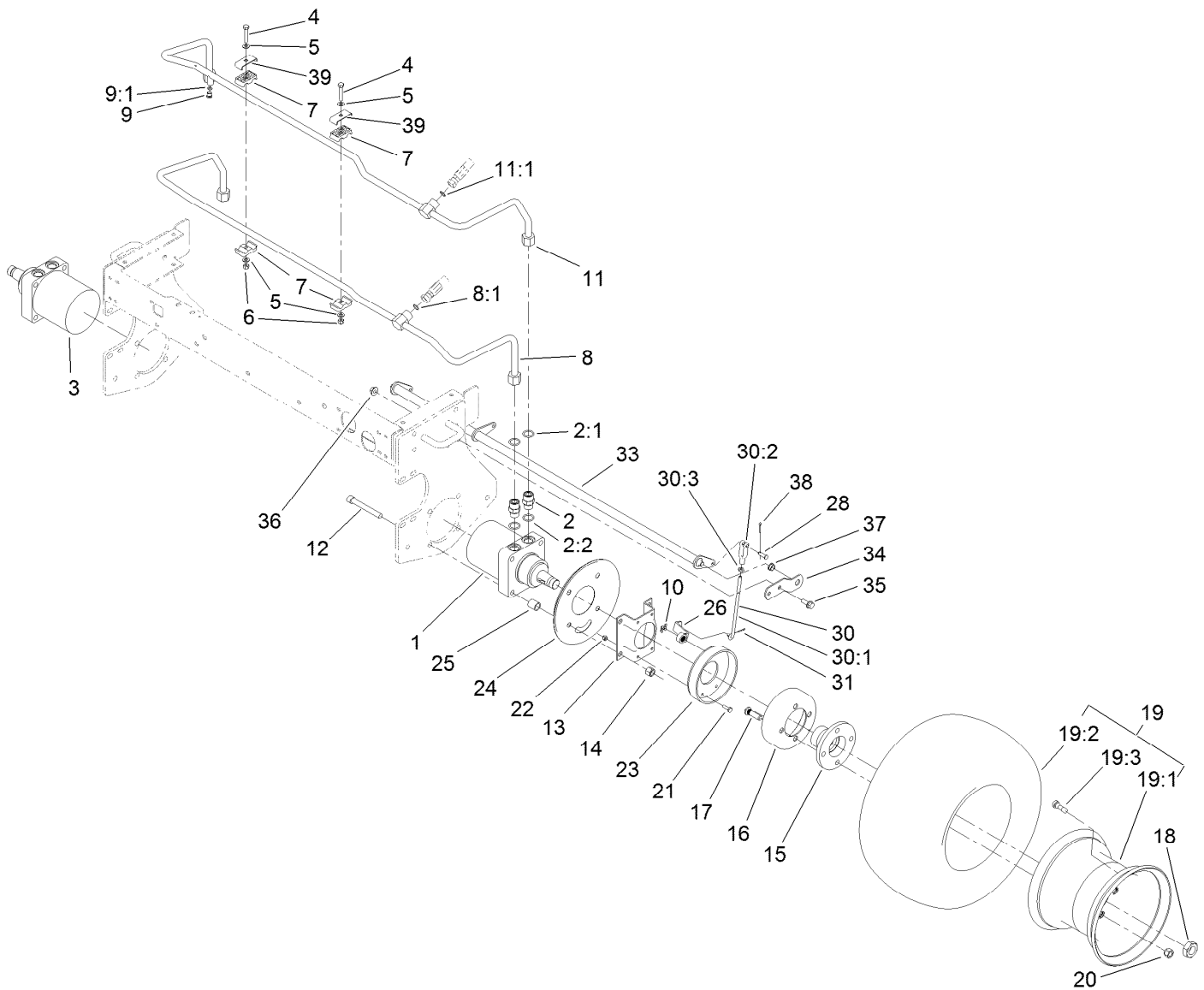
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## Frame and Roll-Over Protection System Assembly

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 1    | 121-3635    | 1    | Frame                  |
| 1:2  | 32148-8     | 2    | Nut-Clinch             |
| 1:3  | 32148-6     | 4    | Nut-Clinch             |
| 1:4  | 133-8062    | 1    | Decal-Spark Arrestor   |
| 1:5  | 117-3270    | 1    | Decal-Danger           |
| 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     | 2    | Clip-Closed, Insulated |
| 8    | 95-8615     | 1    | Tube-Breather          |
| 10   | 32144-10    | 5    | Screw-HWH              |
| 12   | 3234-4      | 2    | Screw-HHF              |
| 13   | 104-0468-01 | 1    | Cover-Frame            |
| 18   | 3234-5      | 2    | Screw-HHF              |

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 19   | 127-8493    | 1    | ROPS ASM           |
| 19:3 | 136-3702    | 1    | Decal-Safety, ROPS |
| 20   | 117-3176    | 4    | Screw-HHF          |
| 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         |
| 34   | 104-4634-03 | 1    | Toolbox            |
| 35   | 104-4633-03 | 1    | Cover-Toolbox      |
| 37   | 121-3623    | 1    | Decal-Danger       |
| 38   | 104-7048    | 1    | Cap-Housing        |
| 47   | 117-2378    | 1    | Holder-Bag         |
| 48   | 32144-1     | 2    | Screw-Taptite      |

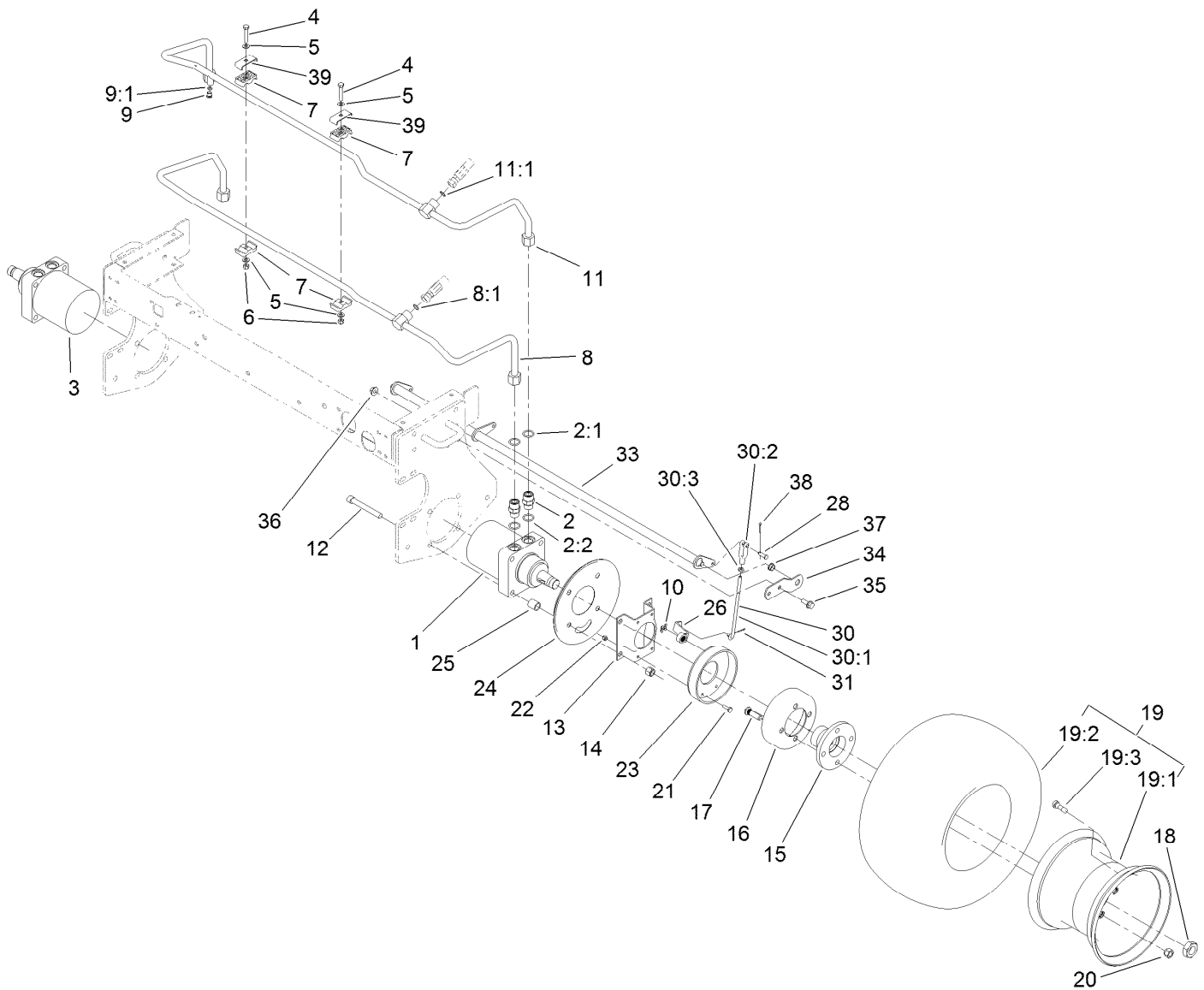


## Front Wheel and Brake Assembly

| 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   | 84-2000-0P  | 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   | 104-0485-0P | 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

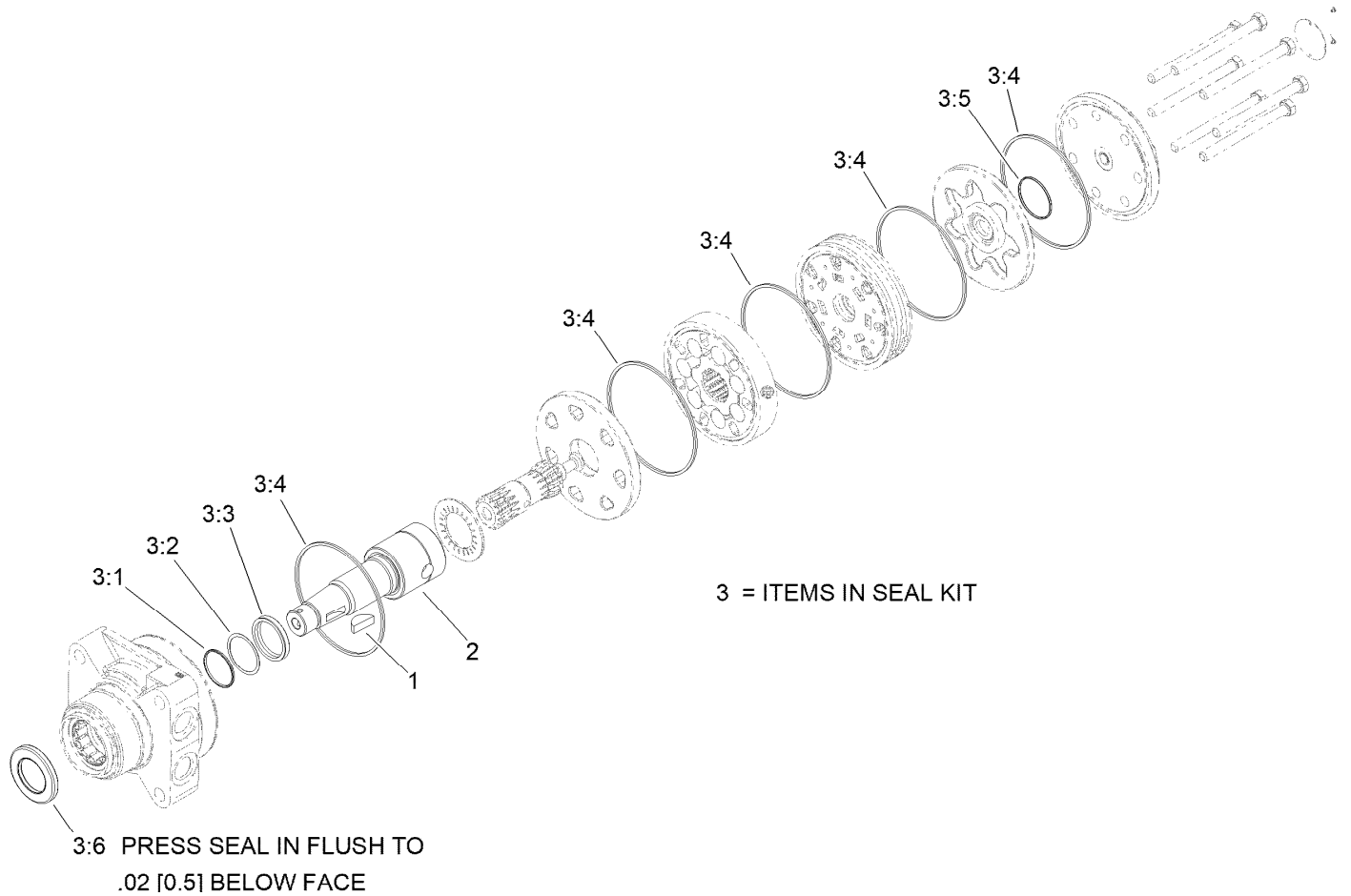


## Front Wheel and Brake Assembly (continued)

| 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   |
| 34   | 95-8683     | 2    | Bracket-Pivot, Brake |

| Ref. | Part Number | Qty. | Description    |
|------|-------------|------|----------------|
| 35   | 3234-11     | 4    | Screw-HHF      |
| 36   | 32128-43    | 4    | Nut-Flange     |
| 37   | 256-156     | 2    | Bushing-Flange |
| 38   | 3272-10     | 2    | Pin-Cotter     |
| 39   | 119-1419    | 4    | Plate-Clamp    |

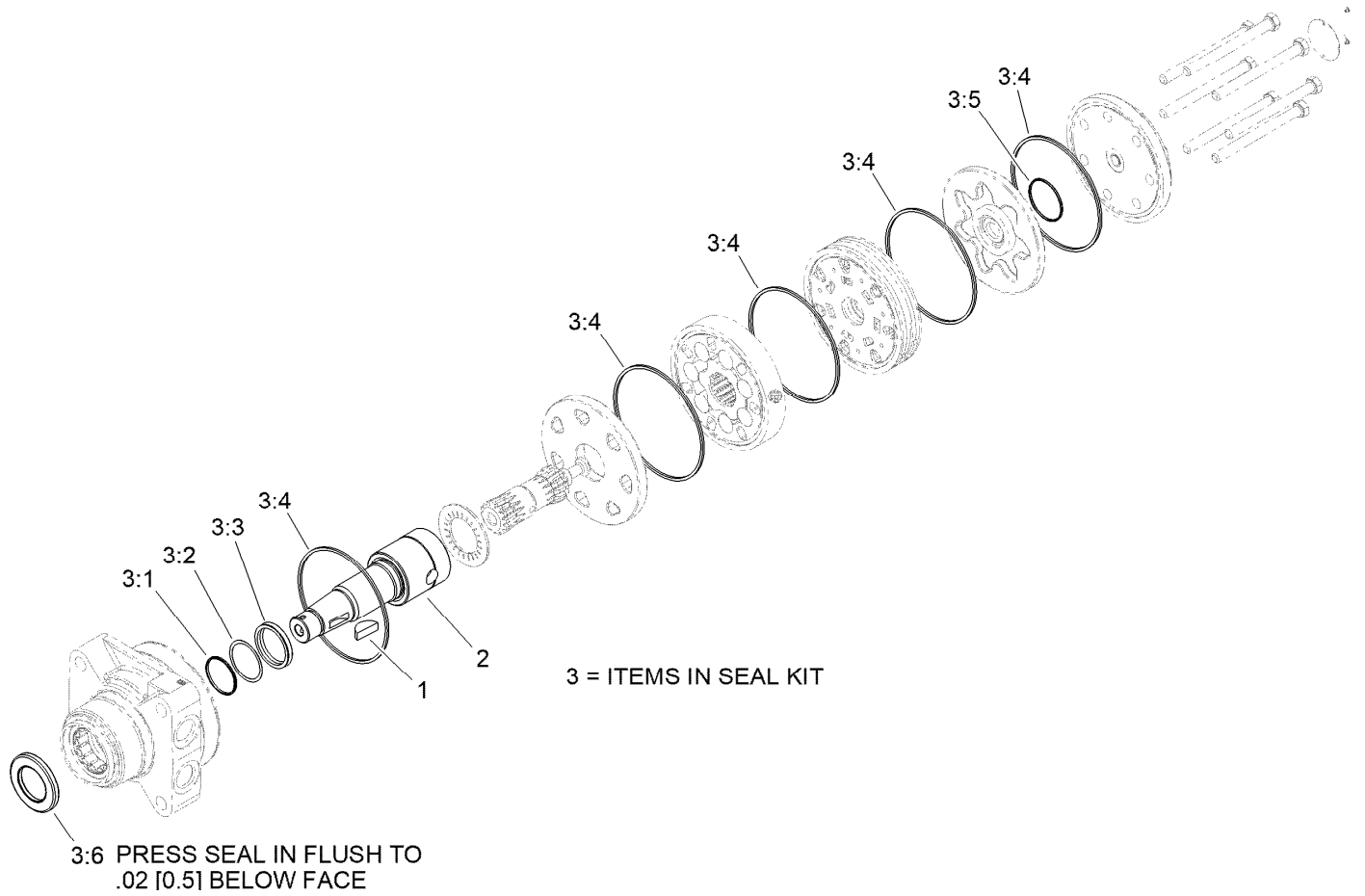
● Not serviced separately



## Hydraulic Motor Assembly No. 110-8785

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 3257-42     | 1    | Key-Woodruff          |
| 2    | 99-3090     | 1    | Shaft-Coupling        |
| 3    | 100-6131    | 1    | Seal Kit              |
| 3:1  |             | 1    | Ring-Back Up ●        |
| 3:2  |             | 1    | Washer-Back Up ●      |
| 3:3  |             | 1    | Seal-Shaft ●          |
| 3:4  |             | 5    | Seal-Ring ●           |
| 3:5  |             | 1    | Seal-Commutator ●     |
| 3:6  |             | 1    | Seal-Dirt And Water ● |

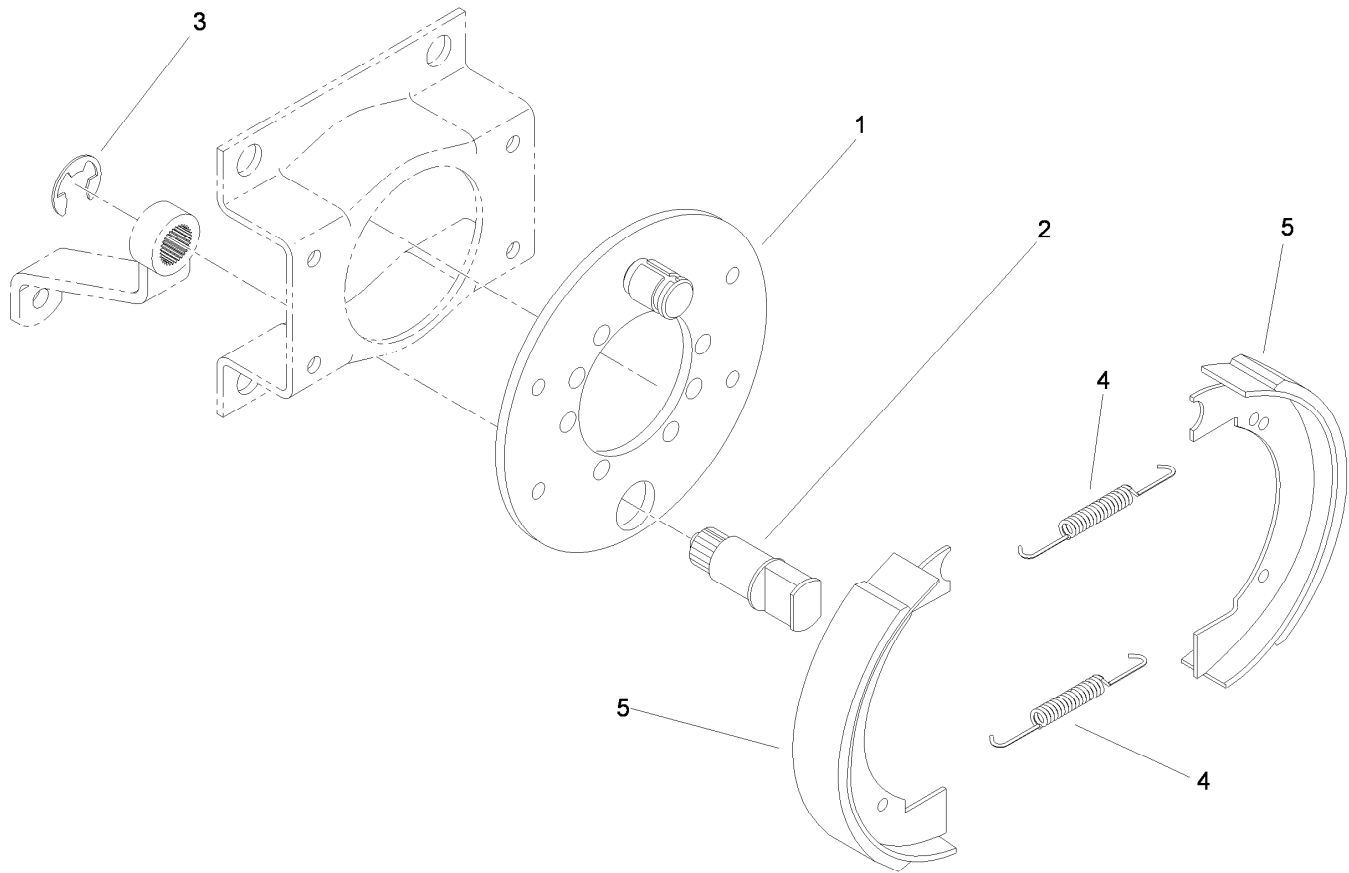
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## Hydraulic Motor Assembly No. 110-8786

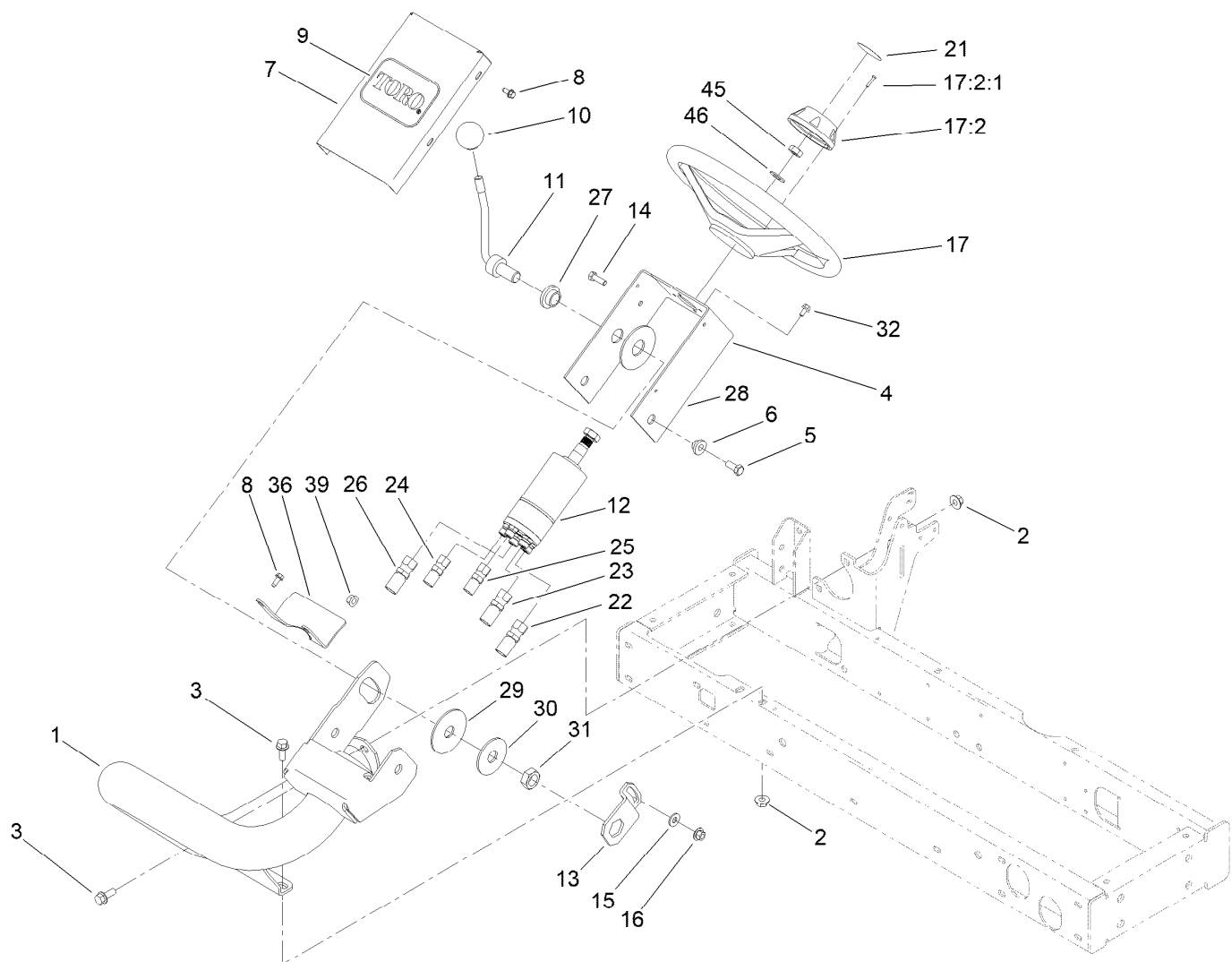
| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 3257-42     | 1    | Key-Woodruff          |
| 2    | 99-3090     | 1    | Shaft-Coupling        |
| 3    | 100-6131    | 1    | Seal Kit              |
| 3:1  |             | 1    | Ring-Back Up ●        |
| 3:2  |             | 1    | Washer-Back Up ●      |
| 3:3  |             | 1    | Seal-Shaft ●          |
| 3:4  |             | 5    | Seal-Ring ●           |
| 3:5  |             | 1    | Seal-Commutator ●     |
| 3:6  |             | 1    | Seal-Dirt And Water ● |

● Not serviced separately



## Brake Assembly No. 104-7705

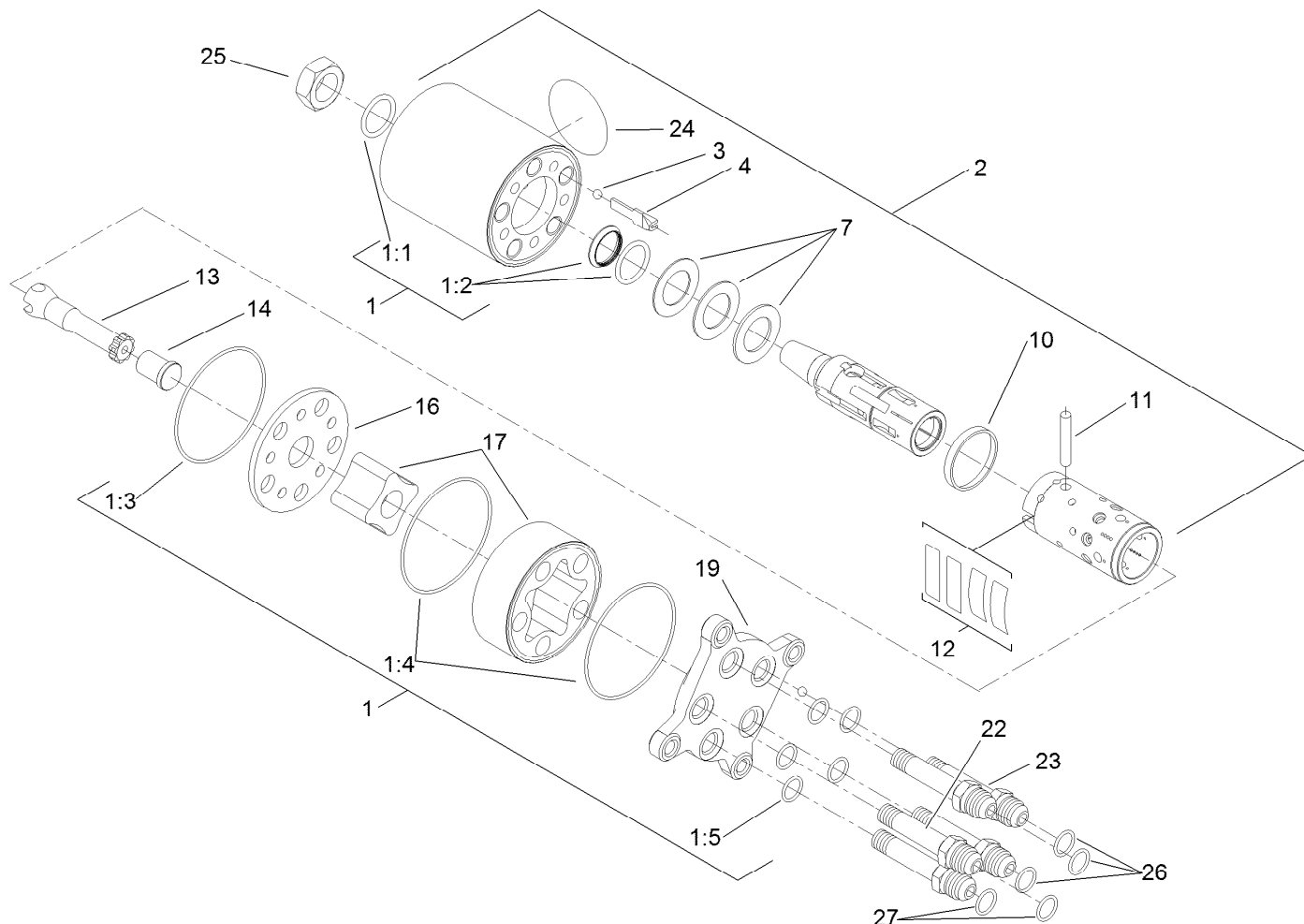
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 70-9870            | 1           | Plate-Backing      |
| 2           | 104-7707           | 1           | Shaft-Cam, Brake   |
| 3           | 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   | 121-7856    | 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      |
| 17:2 | 68-5140     | 1    | Cap-Wheel, Steering     |

| Ref.   | Part Number | Qty. | Description     |
|--------|-------------|------|-----------------|
| 17:2:1 | 32144-21    | 1    | Screw           |
| 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     |

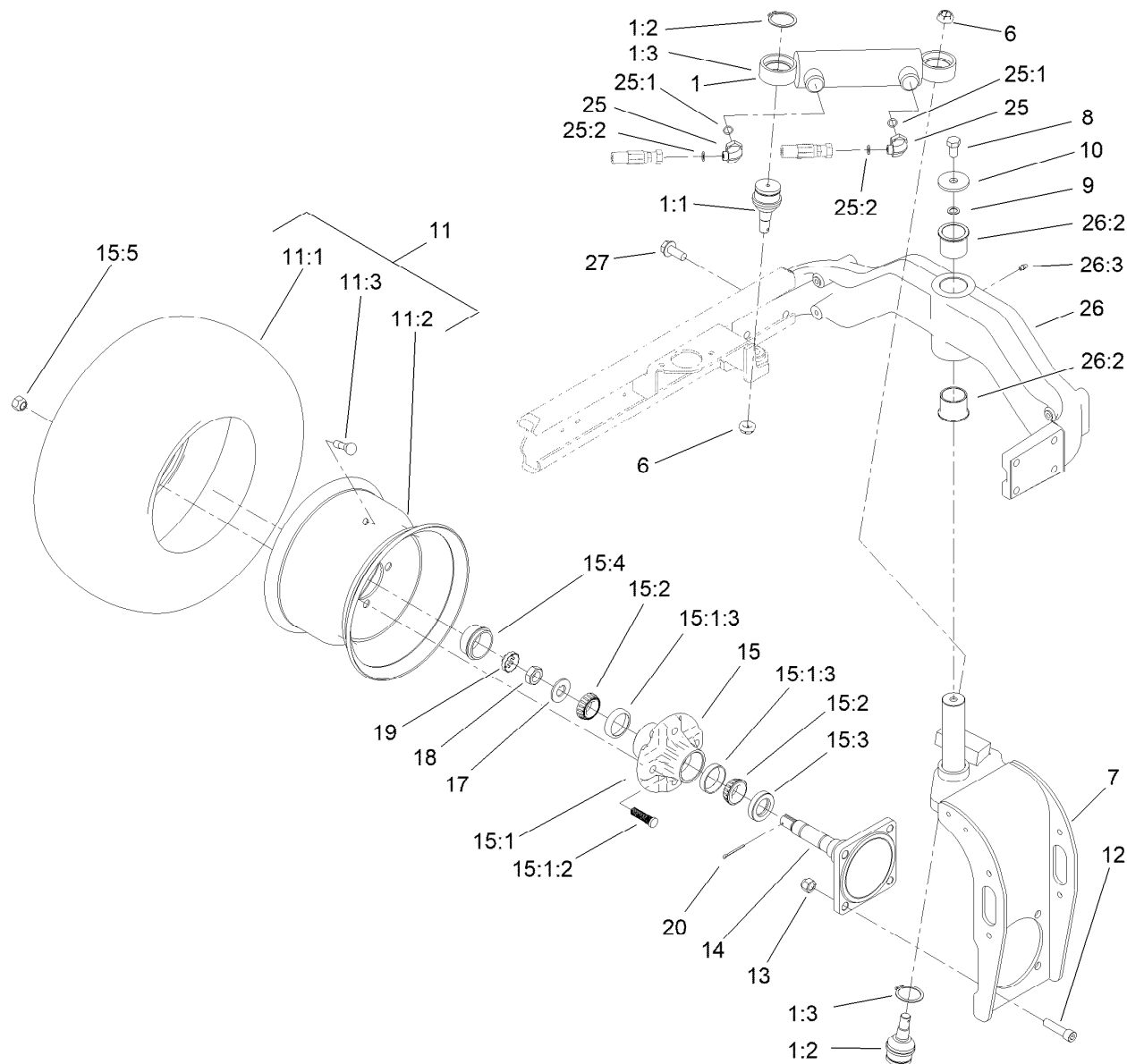


## Steering Valve Assembly No. 121-7856

| 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 ●       |

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

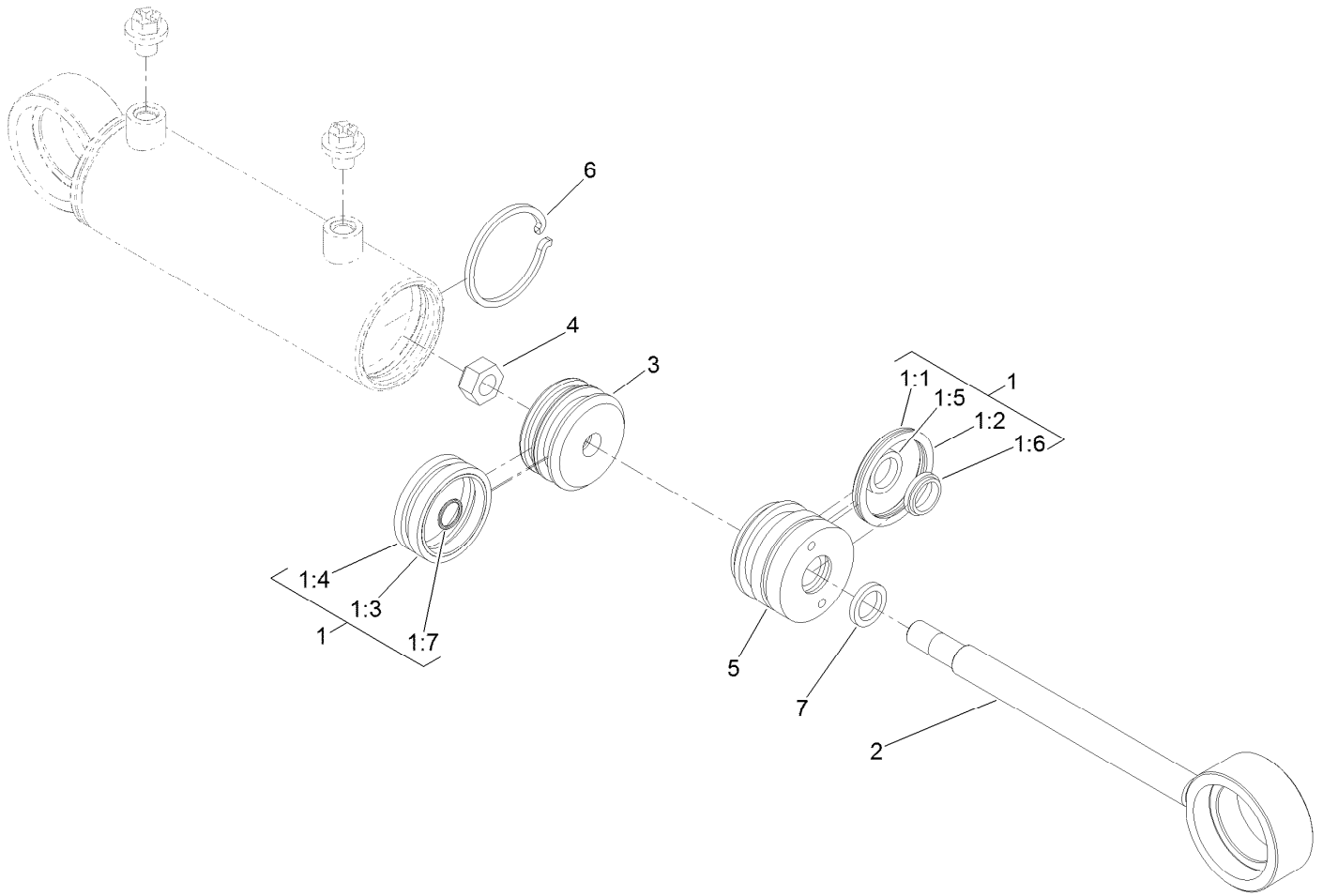


## Rear Fork and Tire Assembly

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 1    |             | 1    | Steering Cylinder ASM ●  |
| 1:1  | 121-3605    | 2    | Ball Joint               |
| 1:2  | 32151-104   | 2    | Ring-Retaining, External |
| 1:3  | 121-3653    | 1    | Cylinder-HYD             |
| 6    | 121-3611    | 2    | Nut-Hex, Flextop         |
| 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             |
| 14   | 115-6655-03 | 1    | Spindle                  |
| 15   | 117-5115    | 1    | Hub And Bearing ASM      |
| 15:1 | 117-8251    | 1    | Hub ASM                  |

| Ref.   | Part Number | Qty. | Description           |
|--------|-------------|------|-----------------------|
| 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    | 1    | Rear Casting ASM      |
| 26:2   | 95-8805     | 2    | Bushing               |
| 26:3   | 302-5       | 1    | Fitting-Grease        |
| 27     | 3234-38     | 8    | Screw-HHF             |

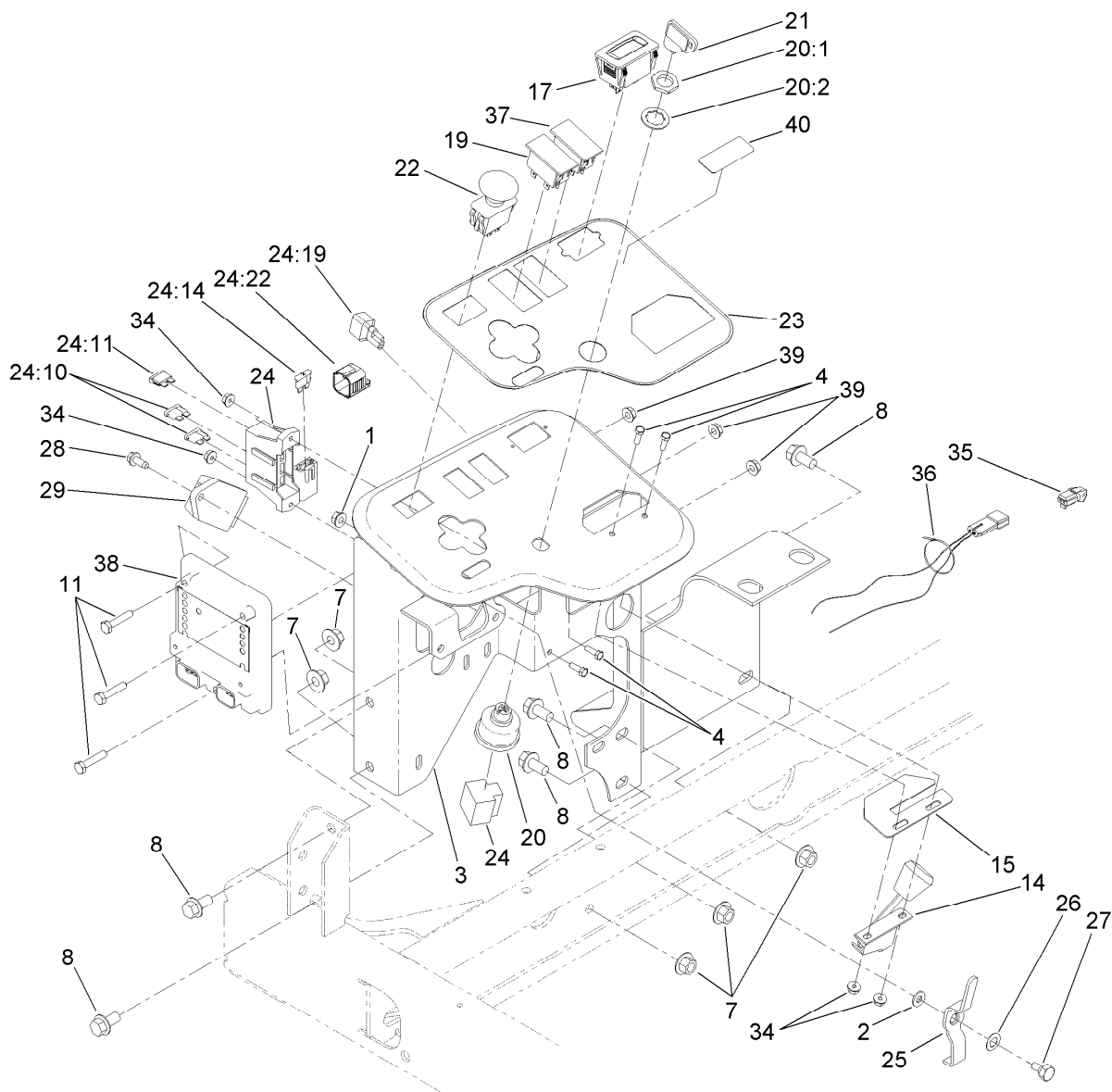
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## Hydraulic Cylinder Assembly No. 121-3653

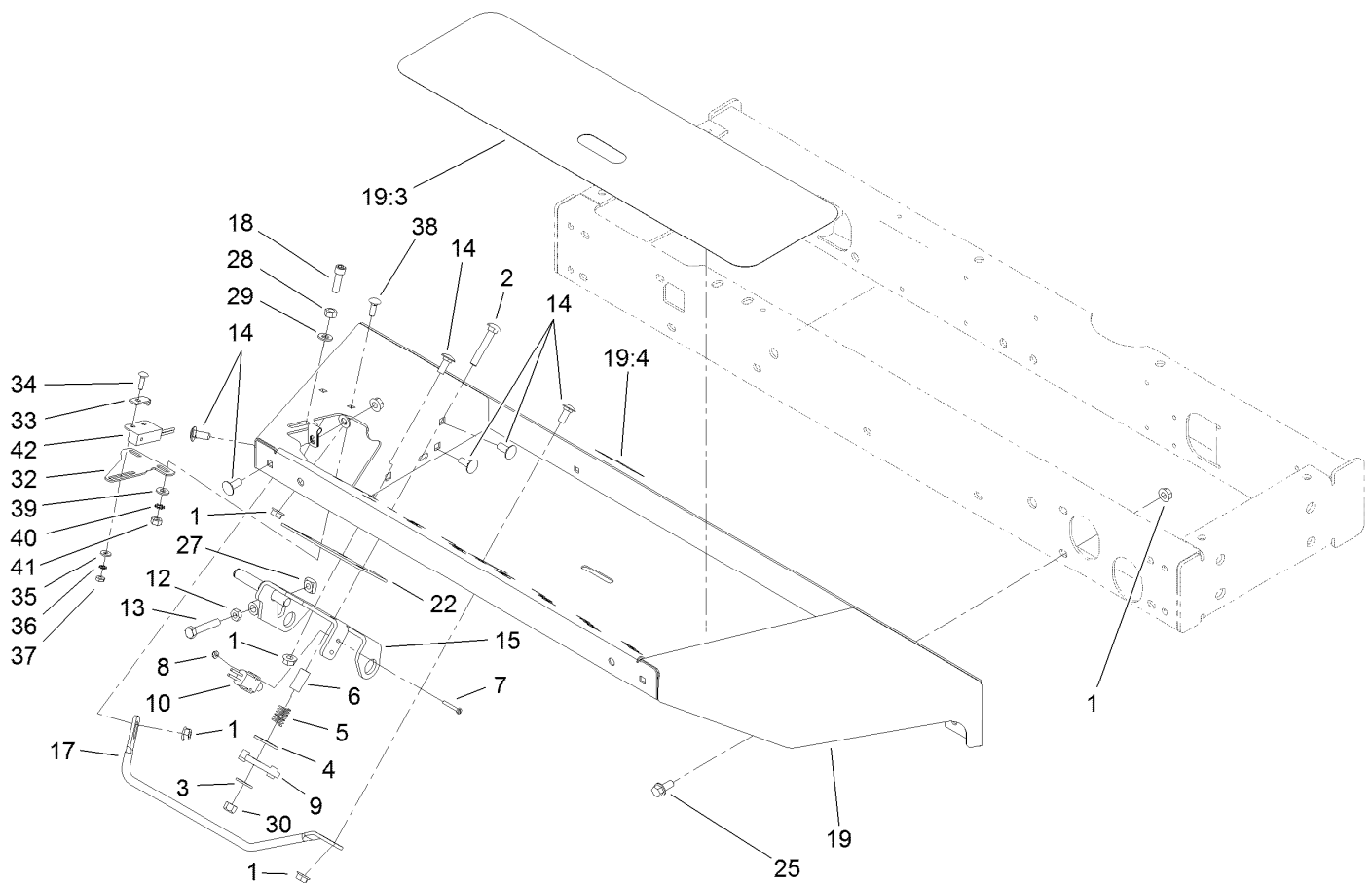
| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 1    | 136-3278    | 1    | Seal Kit         |
| 1:1  |             | 1    | O-Ring ●         |
| 1:2  |             | 1    | Backup ●         |
| 1:3  |             | 1    | Psp Seal ●       |
| 1:4  |             | 1    | Wear Ring ●      |
| 1:5  |             | 1    | Bt Seal ●        |
| 1:6  |             | 1    | Dust Seal ●      |
| 1:7  |             | 1    | O-Ring ●         |
| 2    |             | 1    | Rod ●            |
| 3    |             | 1    | Piston ●         |
| 4    |             | 1    | Head ●           |
| 5    |             | 1    | Lock Nut ●       |
| 6    |             | 1    | Retaining Ring ● |
| 7    |             | 1    | Square O-Ring ●  |

● Not serviced separately



## Control Panel Assembly

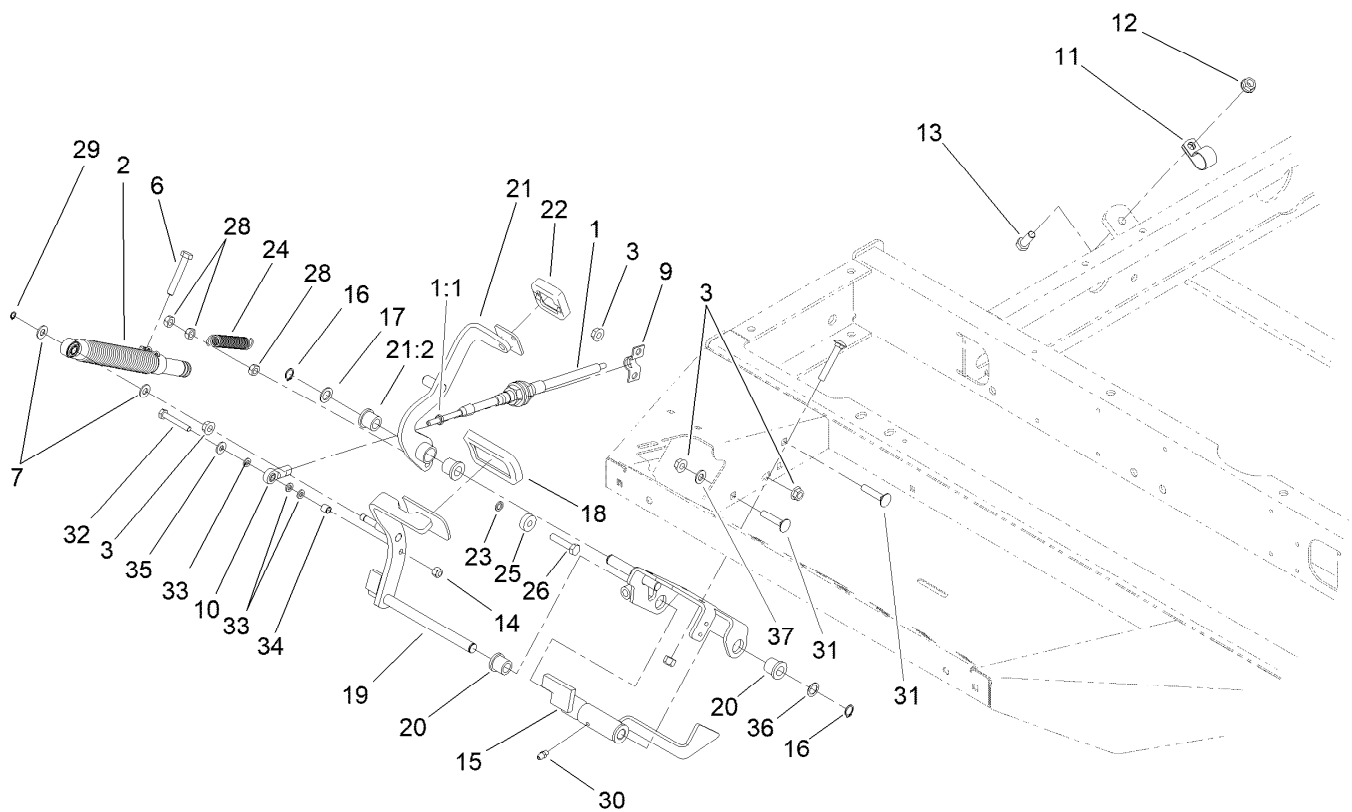
| Ref. | Part Number | Qty. | Description          | Ref.  | Part Number | Qty. | Description              |
|------|-------------|------|----------------------|-------|-------------|------|--------------------------|
| 1    | 32128-32    | 1    | Nut-HHF              | 24:10 | 218-578     | 2    | Fuse-Blade, 10 Amp       |
| 2    | 3256-22     | 1    | Washer-Flat          | 24:11 | 109355      | 1    | Fuse-Blade, 15 Amp       |
| 3    | 115-3496-03 | 1    | Panel-Control        | 24:14 | 94-6710     | 1    | Fuse-2 Amp               |
| 4    | 3290-134    | 4    | Screw                | 24:19 | 100-4918    | 1    | Diode                    |
| 7    | 32128-43    | 5    | Nut-Flange           | 24:22 | 32180-156   | 1    | Cap-Plug, 6 Way          |
| 8    | 3234-1      | 5    | Screw-HHF            | 25    | 99-3401     | 1    | Lever-Lock               |
| 11   | 321-8       | 3    | Screw-HH             | 26    | 3290-477    | 1    | Washer-Curved            |
| 14   | 138-1224    | 1    | Cable-Throttle       | 27    | 63-3410     | 1    | Screw-Shoulder           |
| 15   | 104-0421    | 1    | Plate-Stop, Throttle | 28    | 32144-10    | 1    | Screw-HWH                |
| 17   | 120-2244    | 1    | Hourmeter            | 29    | 98-7611     | 1    | Controller-Glow          |
| 19   | 100-8070    | 1    | Lamp-Warning         | 34    | 3290-148    | 4    | Nut-HF                   |
| 20   | 104-2541    | 1    | Ignition Switch ASM  | 35    | 104-4875    | 1    | Harness-Wire, Jumper     |
| 20:1 | 218-461     | 1    | Nut-HH               | 36    | 3290-379    | 1    | Tie-Cable                |
| 20:2 | 3254-5      | 1    | Washer-Lock          | 37    | 100-8071    | 1    | Lamp-Warning             |
| 21   | 63-8360     | 1    | Key-Ignition         | 38    | 106-9277    | 1    | Module-Control, Standard |
| 22   | 93-9999     | 1    | Switch-PTO           | 39    | 32128-33    | 3    | Nut-HF                   |
| 23   | 139-6026    | 1    | Decal-Console        | 40    | 121-3598    | 1    | Decal-Danger, 17 Degree  |
| 24   | 122-1523    | 1    | Harness-Wire         |       |             |      |                          |



## 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-HH                |
| 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              |

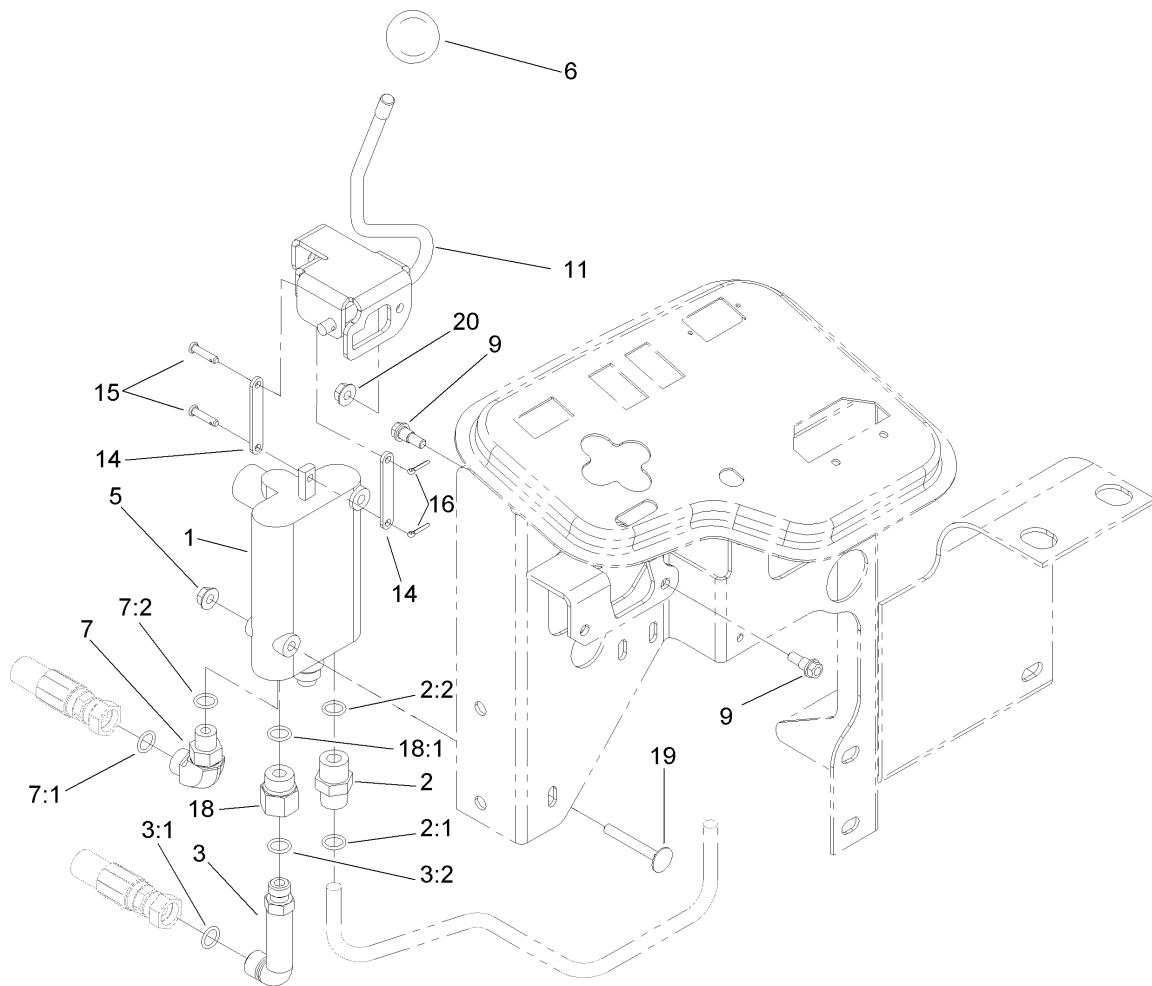
| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 19:4 | 99-3444     | 1    | Decal-Mow / Transport   |
| 22   | 106-2661-01 | 1    | Plate-Support           |
| 25   | 3234-5      | 10   | Screw-HHF               |
| 27   | 99-3565     | 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

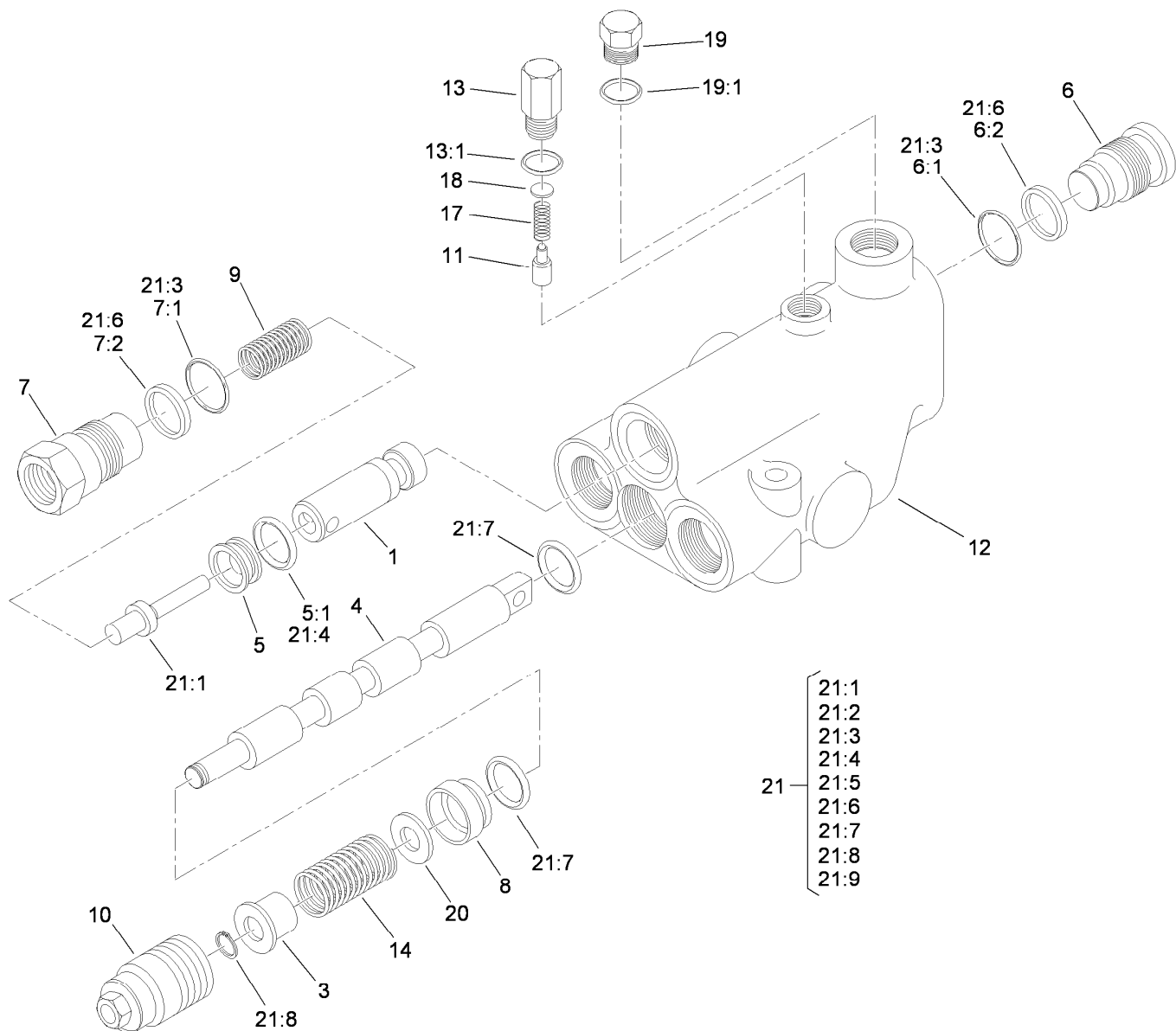
| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    | 100-4815    | 1    | Cable-Control, Traction |
| 1:1  | 3220-1      | 2    | Nut-Jam                 |
| 2    | 140-6248    | 1    | Damper                  |
| 3    | 32128-20    | 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-HSF                 |
| 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-Plain       |



## 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                        |

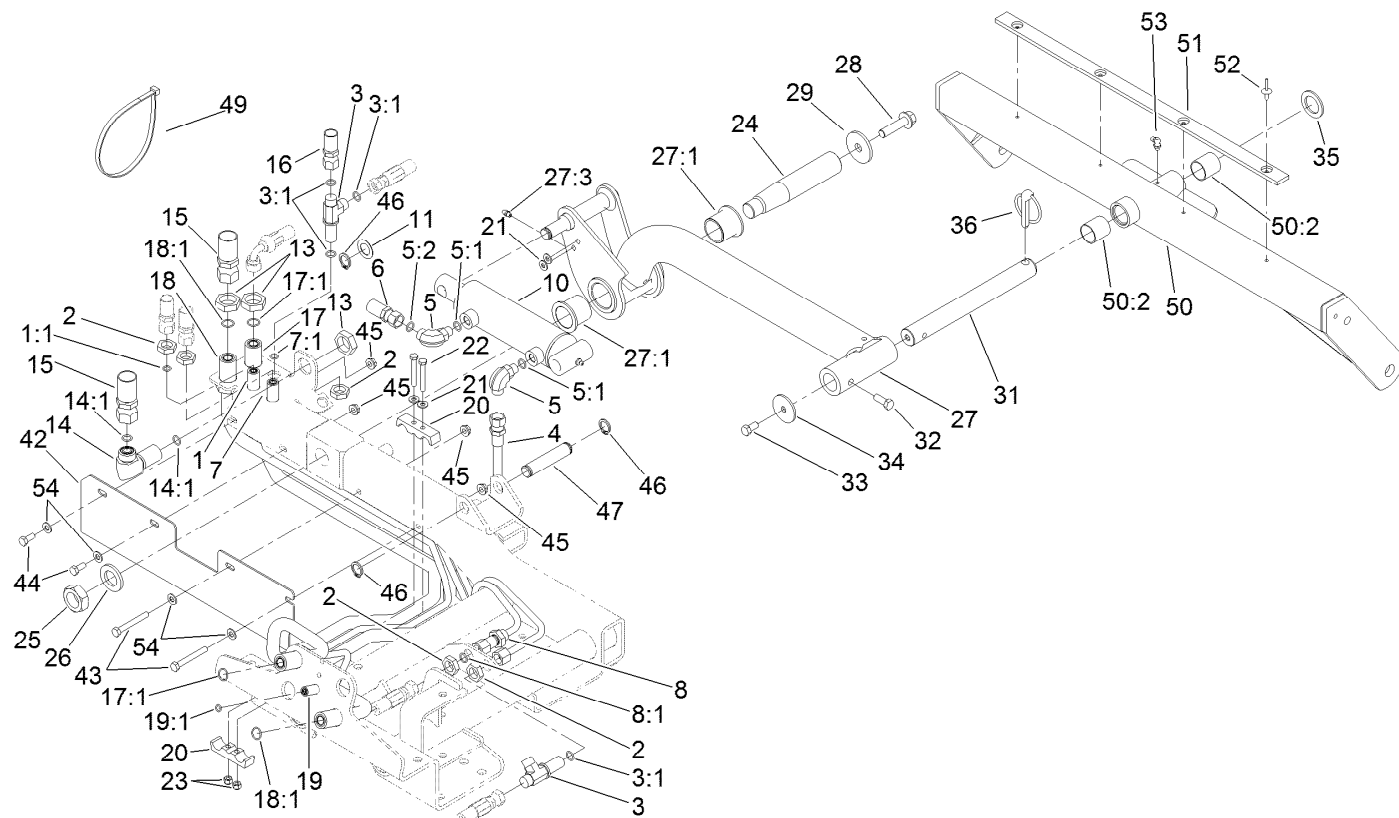


## Single Spool Control Valve Assembly No. 95-8689

| 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 ●         |

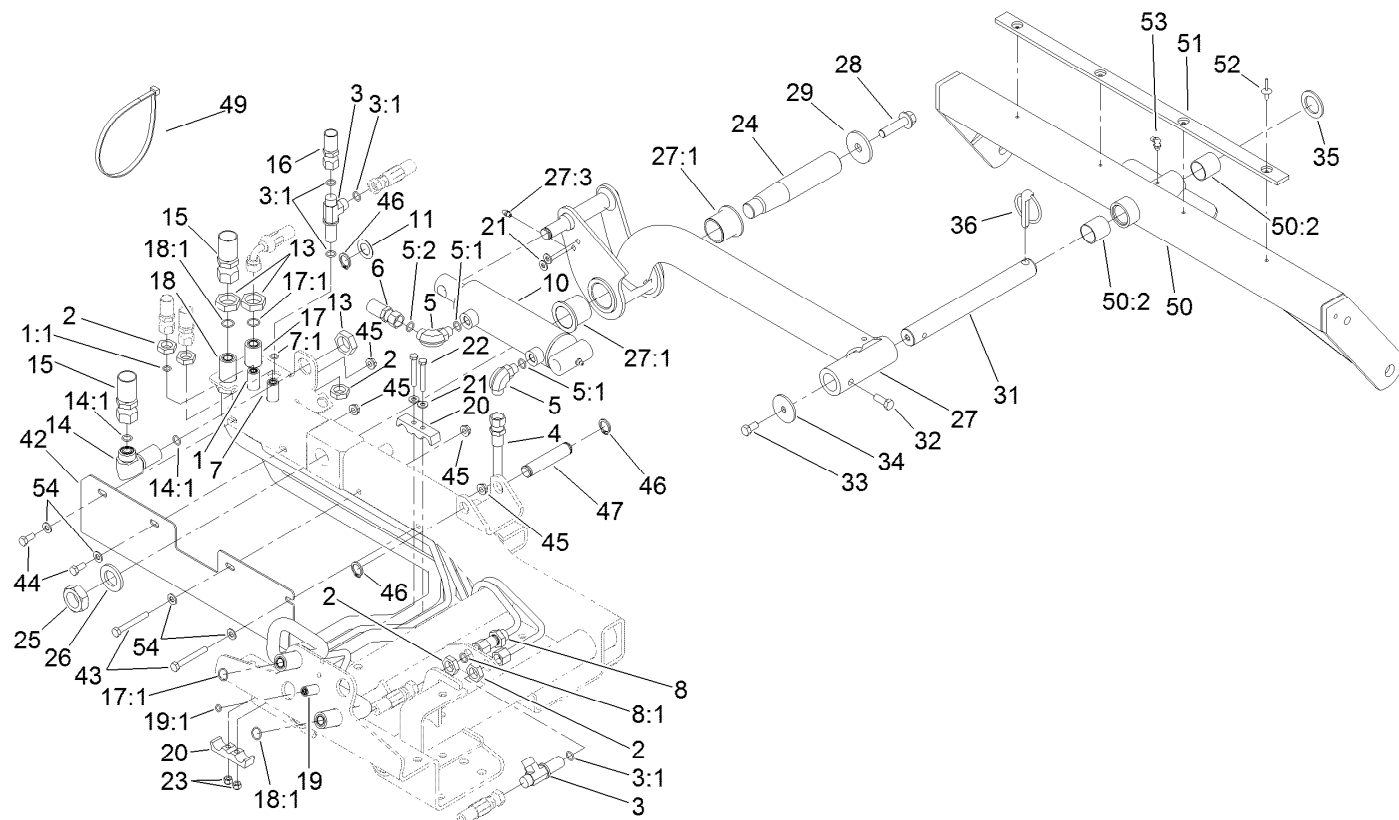
● Not serviced separately



## 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                   |

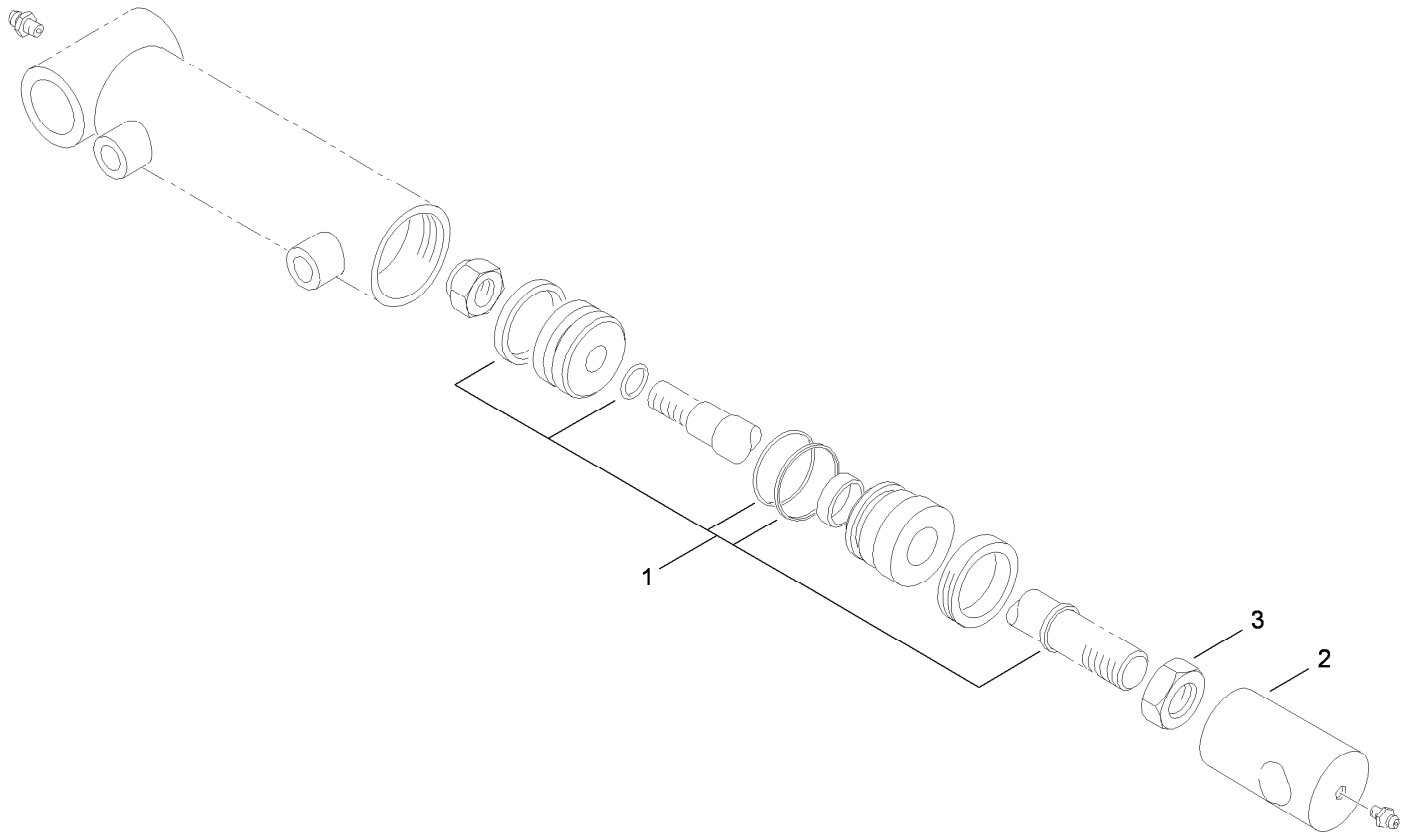
| Ref. | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 17   | 104-0401    | 1    | Tube ASM                  |
| 17:1 | 237-65      | 2    | O-Ring                    |
| 18   | 104-0400    | 1    | Tube ASM                  |
| 18:1 | 237-65      | 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)

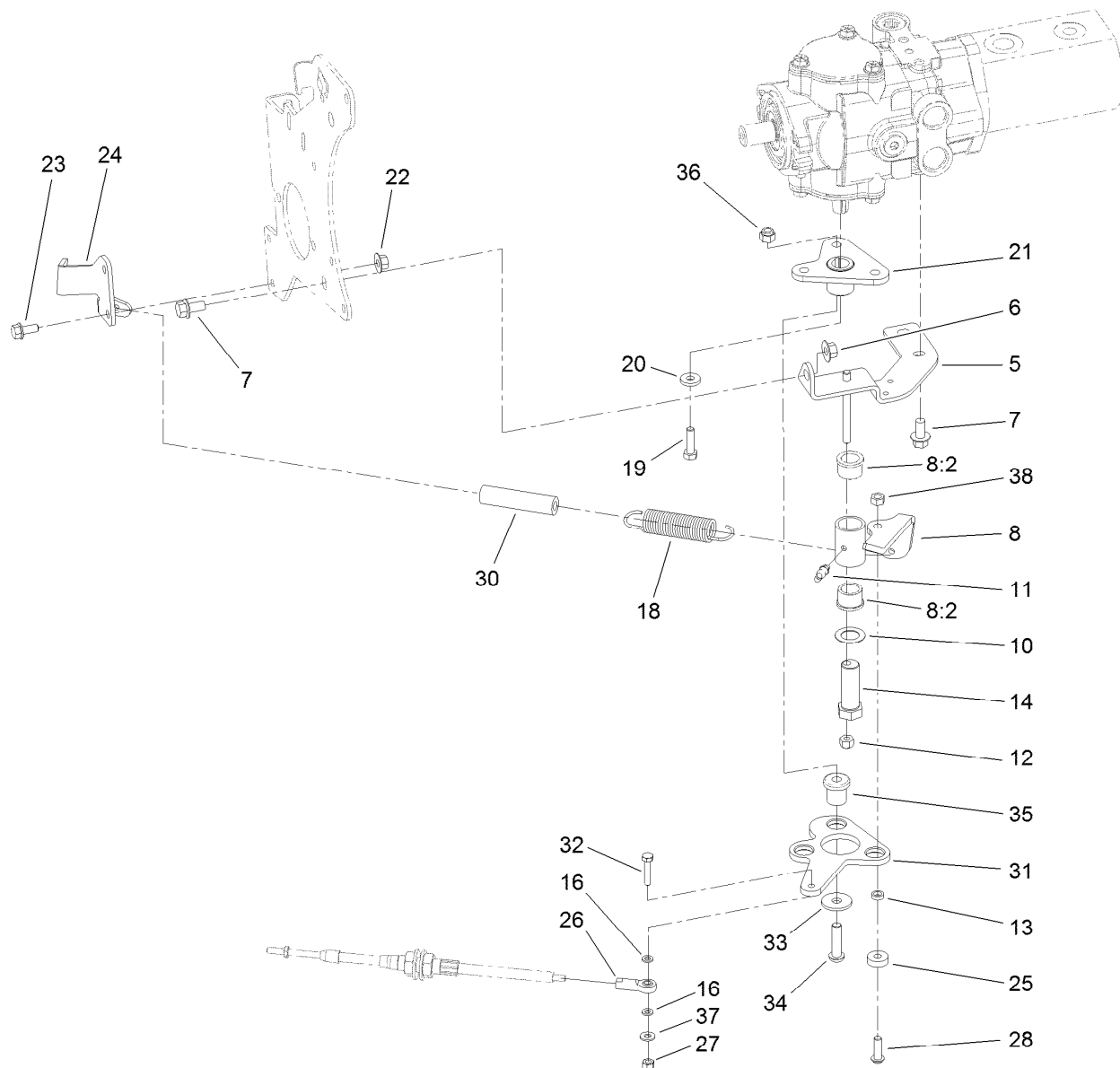
| Ref. | Part Number | Qty. | Description    |
|------|-------------|------|----------------|
| 34   | 63-7400     | 1    | Washer-Rebound |
| 35   | 3-6781      | 1    | Washer-Flat    |
| 36   | 283-71      | 1    | Pin-Lynch      |
| 42   | 121-3616-03 | 1    | Guard          |
| 43   | 322-12      | 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         |
| 54   | 3256-23     | 4    | Washer-Plain           |



## Hydraulic Cylinder Assembly No. 112-9916

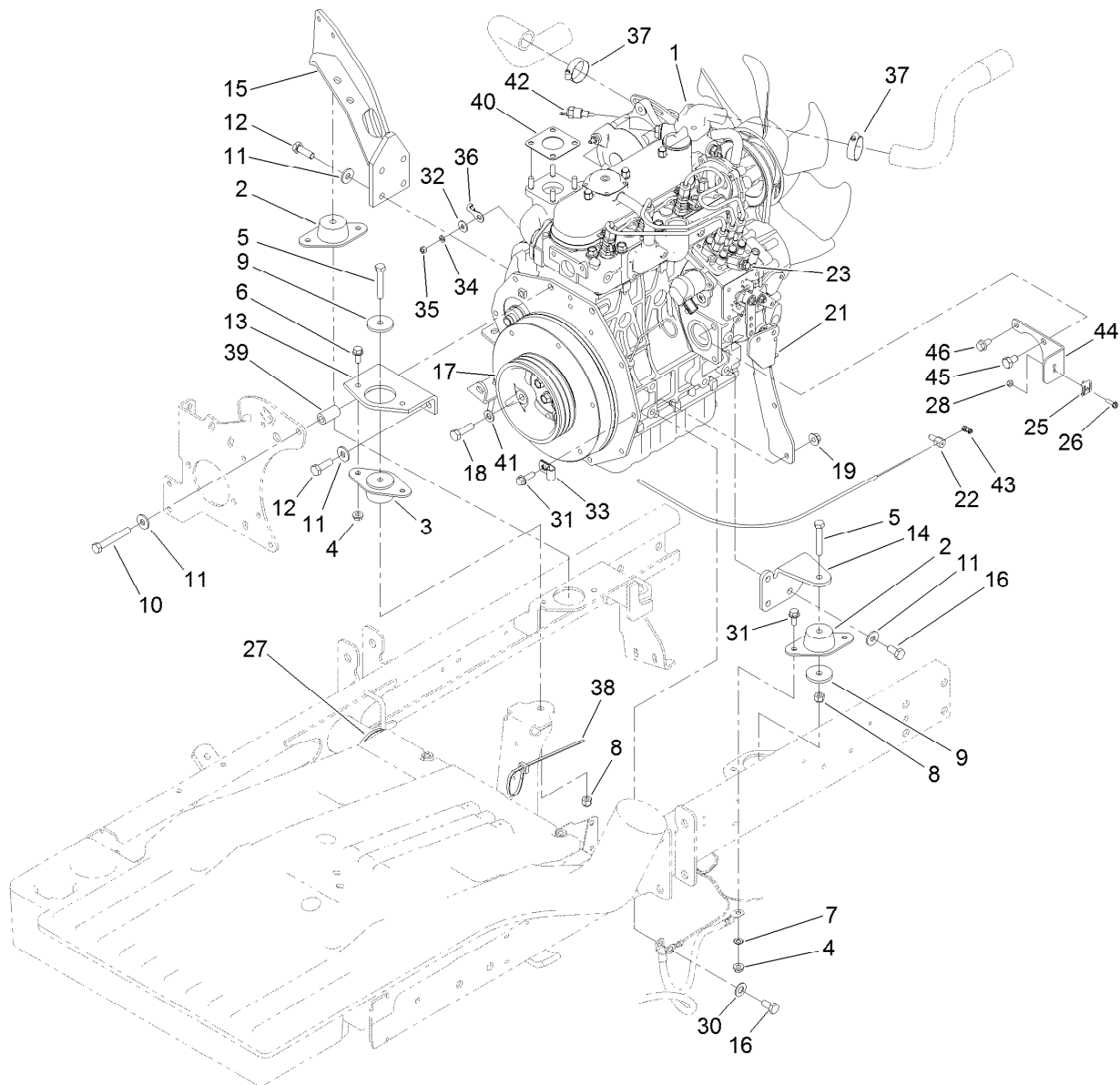
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 115-3410           | 1           | Seal Kit           |
| 2           | 108-9035           | 1           | Clevis             |
| 3         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



## Neutral Arm Assembly

| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 5    | 95-8960-0P  | 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              |

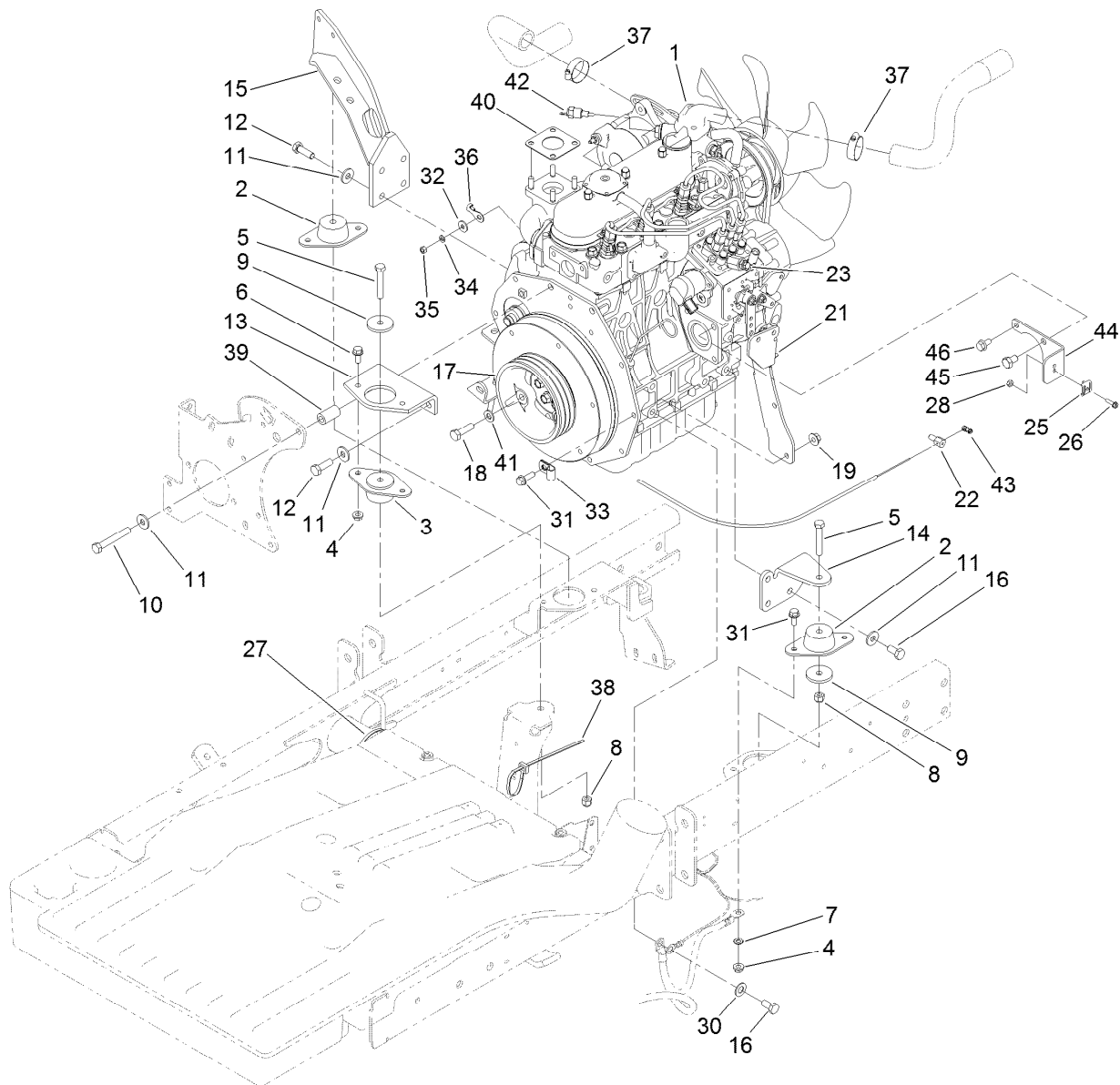
| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 23   | 3234-5      | 2    | Screw-HHF              |
| 24   | 104-0464-03 | 1    | Bracket-Support, Cable |
| 25   | 251-259     | 1    | Bearing-Ball           |
| 26   | 2411-41     | 1    | Rod End-Ball Joint     |
| 27   | 3296-42     | 1    | Nut-Lock, NI           |
| 28   | 3274-104    | 1    | Screw-HSBH             |
| 30   | 99-3556     | 1    | Hose                   |
| 31   | 99-3594-0P  | 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

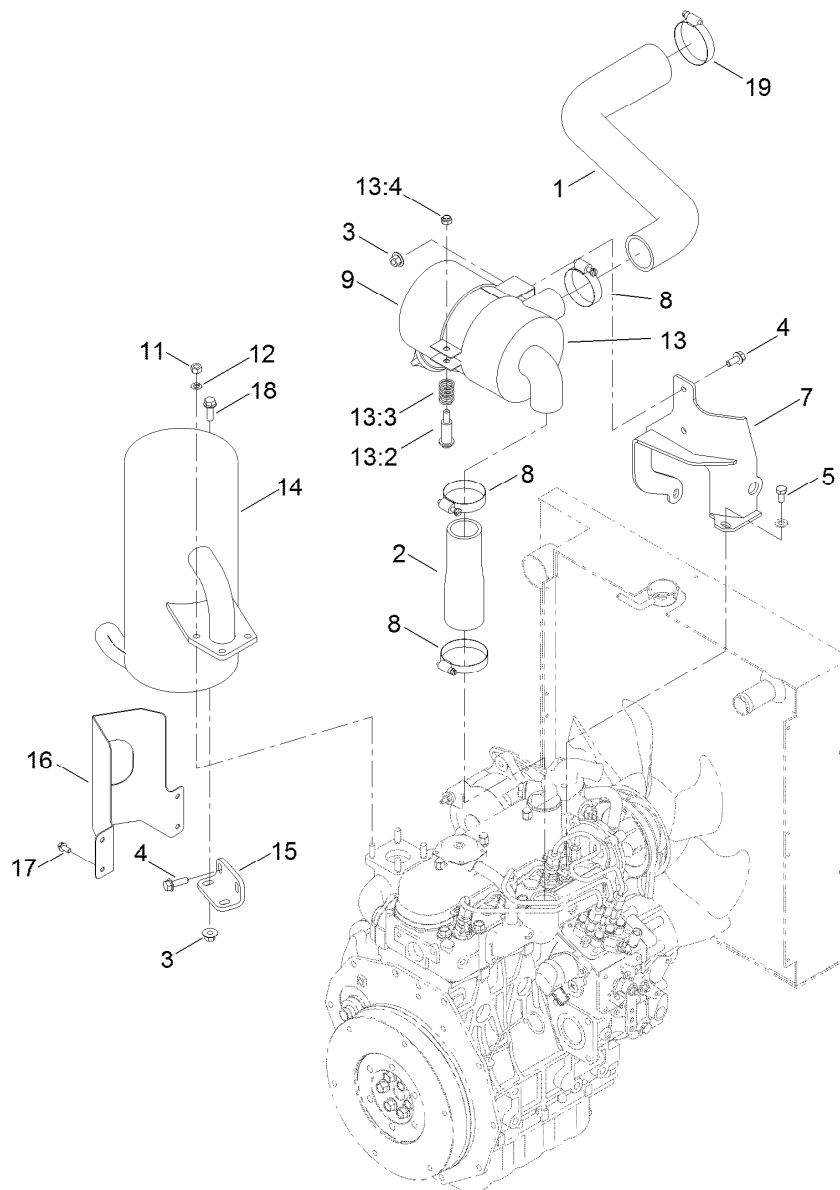
| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 1    | 138-6908    | 1    | Engine-Kubota, D1105       |
| 2    | 121-9076    | 2    | Mount-Engine               |
| 3    | 93-5265     | 1    | Mount-Engine               |
| 4    | 32128-20    | 6    | Nut-HF                     |
| 5    | 323-11      | 3    | Screw-HH                   |
| 6    | 3234-5      | 5    | Screw-HHF                  |
| 7    | 120-9683    | 1    | Washer-Plain               |
| 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   | 99-3618-0P  | 1    | Mount-Engine, Front        |
| 14   | 95-8937-0P  | 1    | Mount-Engine, LH           |
| 15   | 100-4838-0P | 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   | 115-3487-0P | 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               |
| 30   | 33095-00    | 1    | Washer-Flat                |
| 31   | 3234-17     | 3    | 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-Plain               |
| 42   | 106-7772    | 1    | Thermoswitch               |
| 43   | 112-9919    | 1    | Stop-Cable, Throttle       |
| 44   | 110-9009-0P | 1    | Bracket-Cable, Throttle    |



## Engine Assembly (continued)

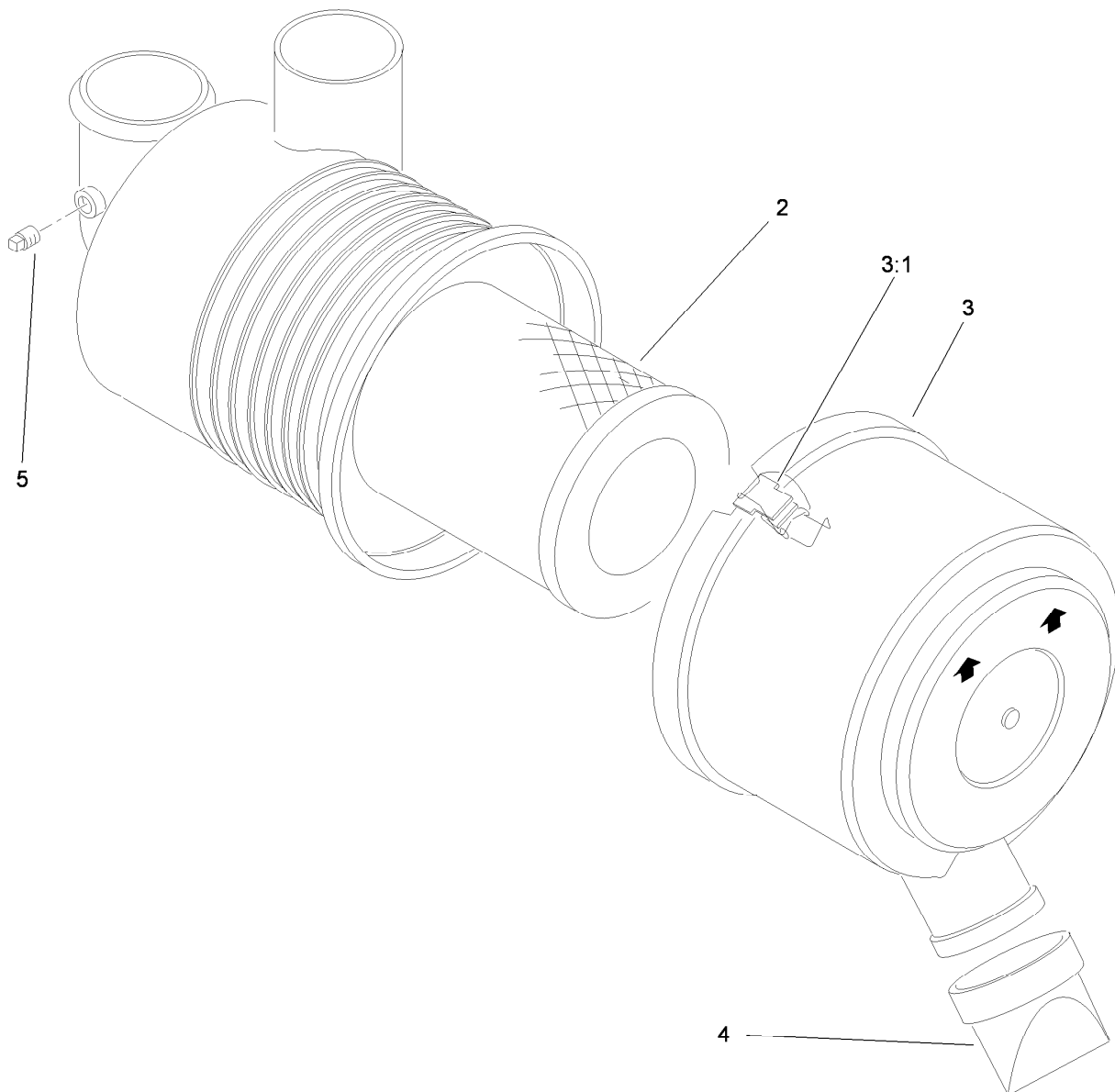
| Ref. | Part Number | Qty. | Description |
|------|-------------|------|-------------|
| 45   | 70-8470     | 1    | Screw-HH    |
| 46   | 33104-016   | 1    | Screw-HHF   |



## Air Cleaner and Muffler Assembly

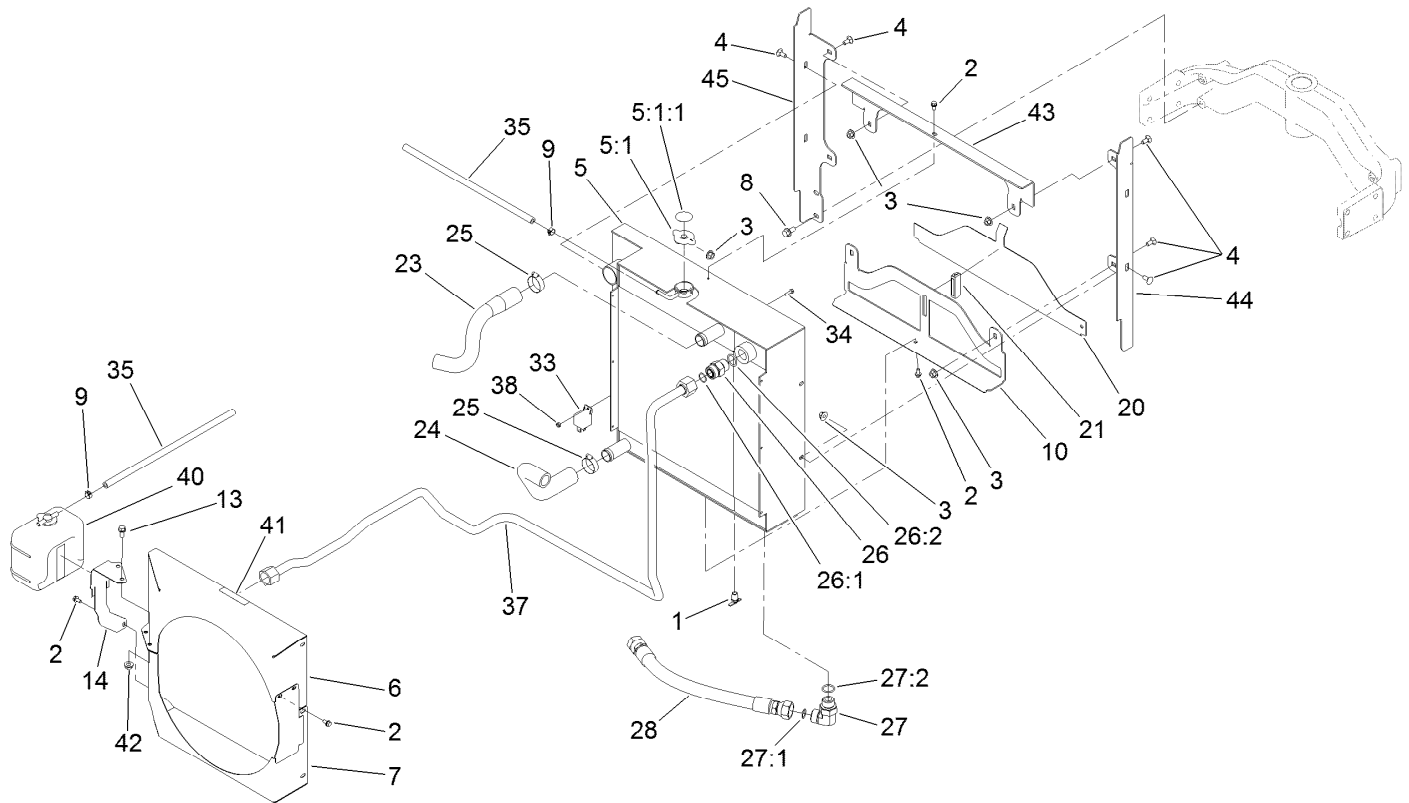
| Ref. | Part Number | Qty. | Description                   |
|------|-------------|------|-------------------------------|
| 1    | 120-3354    | 1    | Hose-Air Inlet, Upper         |
| 2    | 95-8947     | 1    | Hose-Air Inlet, Lower         |
| 3    | 32128-44    | 6    | Nut                           |
| 4    | 3234-5      | 3    | Screw-HHF                     |
| 5    | 33104-016   | 3    | Screw-HHF                     |
| 7    | 136-3154-0P | 1    | Bracket-Cleaner, 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                   |
| 13   | 93-2191     | 1    | Air Cleaner Mounting Band ASM |

| Ref. | Part Number | Qty. | Description     |
|------|-------------|------|-----------------|
| 13:2 | 94-3653     | 1    | Bolt            |
| 13:3 | 94-3654     | 1    | Spring          |
| 13:4 | 48-9510     | 1    | *obs* Nut       |
| 14   | 104-4834    | 1    | Muffler         |
| 15   | 95-8943-0P  | 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

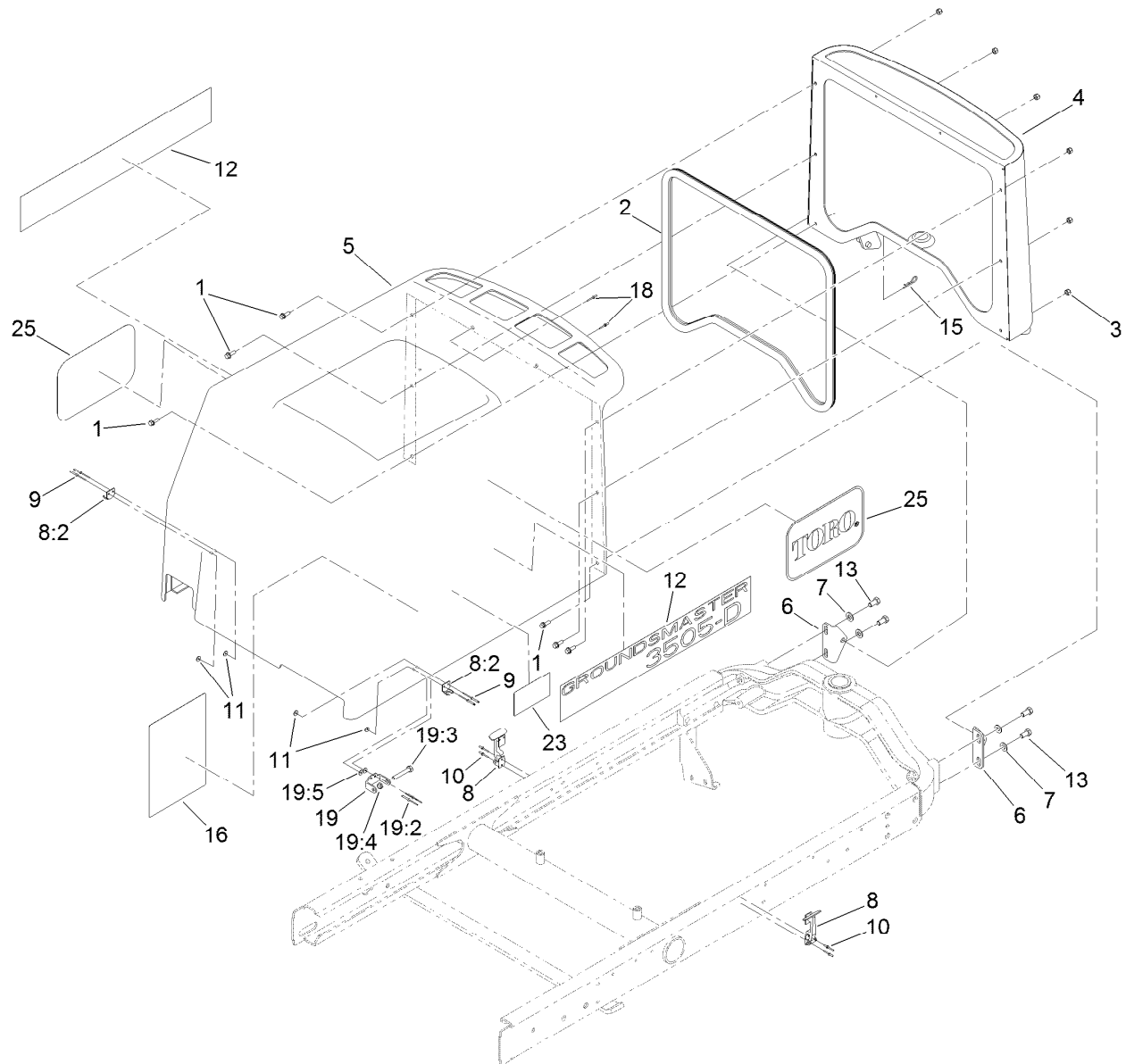
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 2    | 108-3811    | 1    | Filter-Air V-Twin HD |
| 3    | 94-3652     | 1    | Cover ASM            |
| 3:1  | 1-643283    | 2    | Latch-Cleaner, Air   |
| 4    | 87-9400     | 1    | Valve-Vacuator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



## Radiator 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 ASM |
| 5:1   | 115-7766    | 1    | Cap-Radiator                |
| 5:1:1 | 106-6755    | 1    | Decal-Cap, Radiator         |
| 6     | 121-3556-0P | 1    | Shroud-Fan, Upper           |
| 7     | 121-3552-0P | 1    | Shroud-Fan, Lower           |
| 8     | 3234-1      | 4    | Screw-HHF                   |
| 9     | 92-2379     | 2    | Clamp-Hose                  |
| 10    | 120-3530-0P | 1    | Bracket-Radiator, Bottom    |
| 13    | 3234-5      | 2    | Screw-HHF                   |
| 14    | 121-3557-0P | 1    | Bracket-Reservoir           |
| 20    | 95-8702-0P  | 1    | Shield-Radiator, Lower      |
| 21    | 99-3497     | 1    | Magnet                      |
| 23    | 121-3558    | 1    | Hose-Radiator, Upper        |
| 24    | 120-3399    | 1    | Hose-Radiator, Lower        |

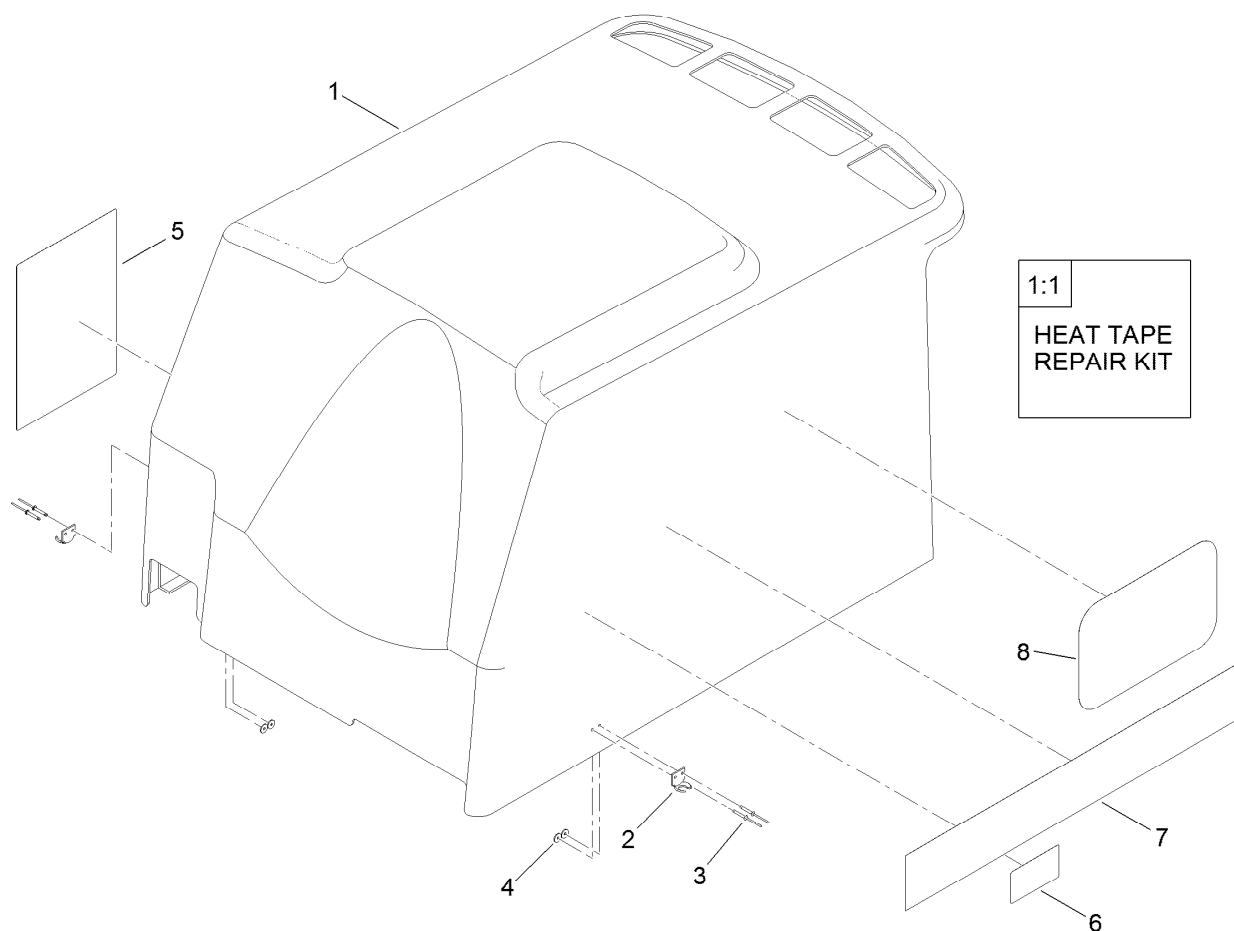
| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 25   | 2412-34     | 2    | Clamp-Hose            |
| 26   | 340-9       | 1    | Fitting-STR           |
| 26:1 | 237-58      | 1    | O-Ring                |
| 26:2 | 237-81      | 1    | O-Ring                |
| 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   | 121-3609    | 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   | 120-3529-0P | 1    | Bracket-Radiator, Top |
| 44   | 120-3531-0P | 1    | Bracket-Radiator, LH  |
| 45   | 120-3532-0P | 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    | 121-3631    | 1    | Hood ASM            |
| 6    | 95-8728     | 2    | Bracket-Pivot, Hood |
| 7    | 3256-24     | 4    | Washer-Plain        |
| 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         |

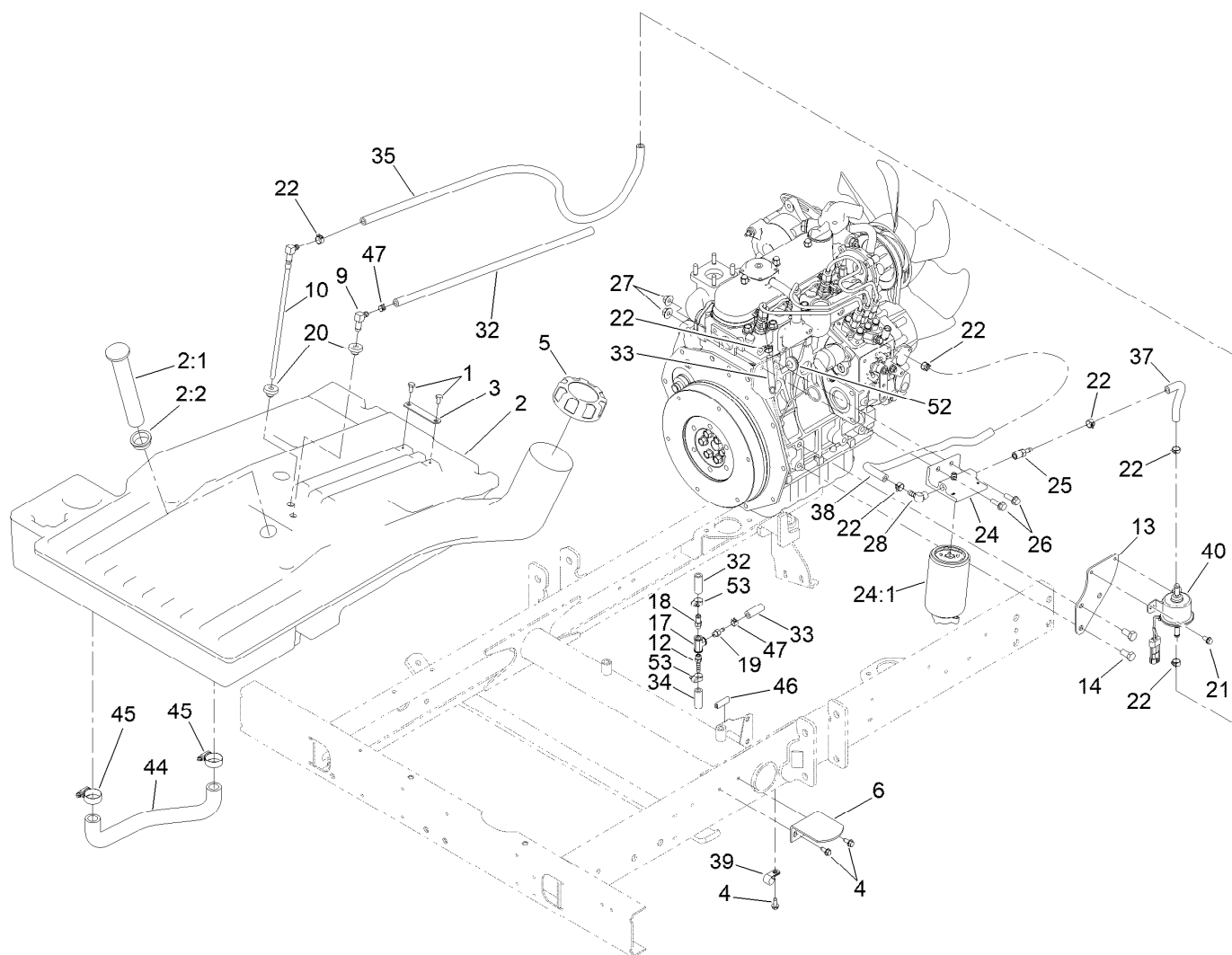
| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 12   | 108-9007    | 2    | Decal-Hood            |
| 13   | 323-6       | 4    | Screw-HH              |
| 15   | 3290-467    | 1    | Pin-Hair              |
| 16   | 138-6974    | 1    | Decal-Service, Gm3500 |
| 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   | 117-3270    | 1    | Decal-Danger          |
| 25   | 66-6140     | 2    | Decal                 |



## Hood Assembly No. 121-3631

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    |             | 1    | Hood ●                |
| 1:1  | 106-8115    | 1    | Heat Tape Repair Kit  |
| 2    | 249-40      | 2    | Keeper                |
| 3    | 107-0333    | 4    | Rivet-Pop             |
| 4    | 3269-10     | 4    | Washer-Back           |
| 5    | 138-6974    | 1    | Decal-Service, Gm3500 |
| 6    | 117-3270    | 1    | Decal-Danger          |
| 7    | 104-5152    | 2    | Decal-Hood            |
| 8    | 66-6140     | 2    | Decal                 |

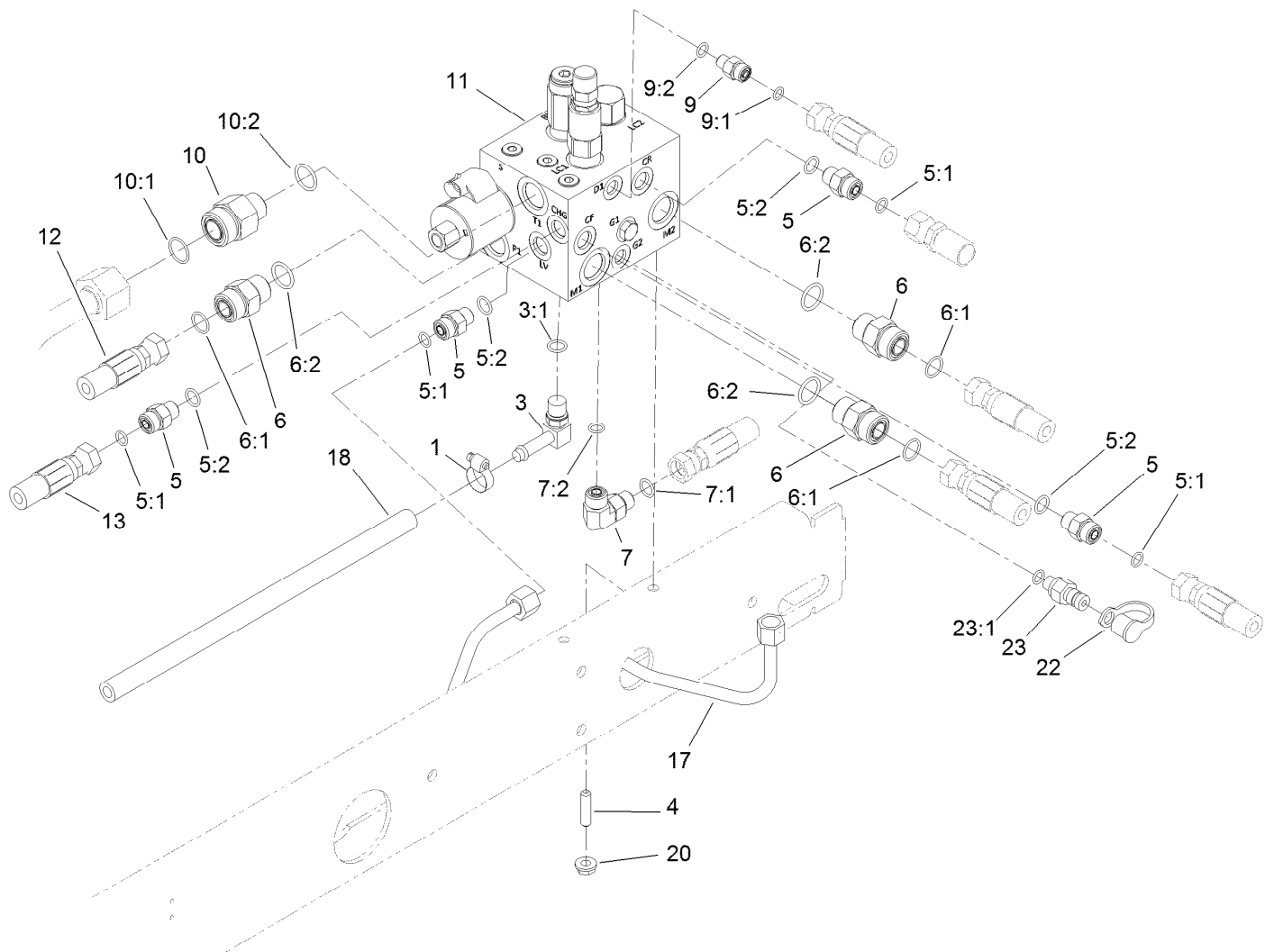
● Not serviced separately



## Fuel System Assembly

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 321-2       | 2    | Screw-HH              |
| 2    | 105-7865    | 1    | Tank-Fuel             |
| 2:1  | 95-8971     | 1    | Gauge-Fuel            |
| 2:2  | 95-8972     | 1    | Grommet               |
| 3    | 95-8881     | 1    | Strap-Line, Fuel      |
| 4    | 32144-10    | 3    | Screw-HWH             |
| 5    | 114-5064    | 1    | Cap-Diesel            |
| 6    | 95-8968-03  | 1    | Support-Tank, Fuel    |
| 9    | 46-6550     | 1    | Fitting-Elbow, 90 DEG |
| 10   | 110-9689    | 1    | Pipe-Stand            |
| 12   | 304-73      | 1    | Fitting-Straight      |
| 13   | 136-3818-0P | 1    | Plate-Fuel Pump       |
| 14   | 63-7790     | 3    | Screw-Cap             |
| 17   | 354-20      | 1    | Fitting-Tee           |
| 18   | 354-21      | 1    | Fitting-Barbed        |
| 19   | 354-22      | 1    | Fitting-Barbed        |
| 20   | 46-6560     | 2    | Bushing               |
| 21   | 32144-4     | 2    | Screw-HWH             |
| 22   | 92-2379     | 7    | Clamp-Hose            |
| 24   | 110-9044    | 1    | Separator-Filter      |

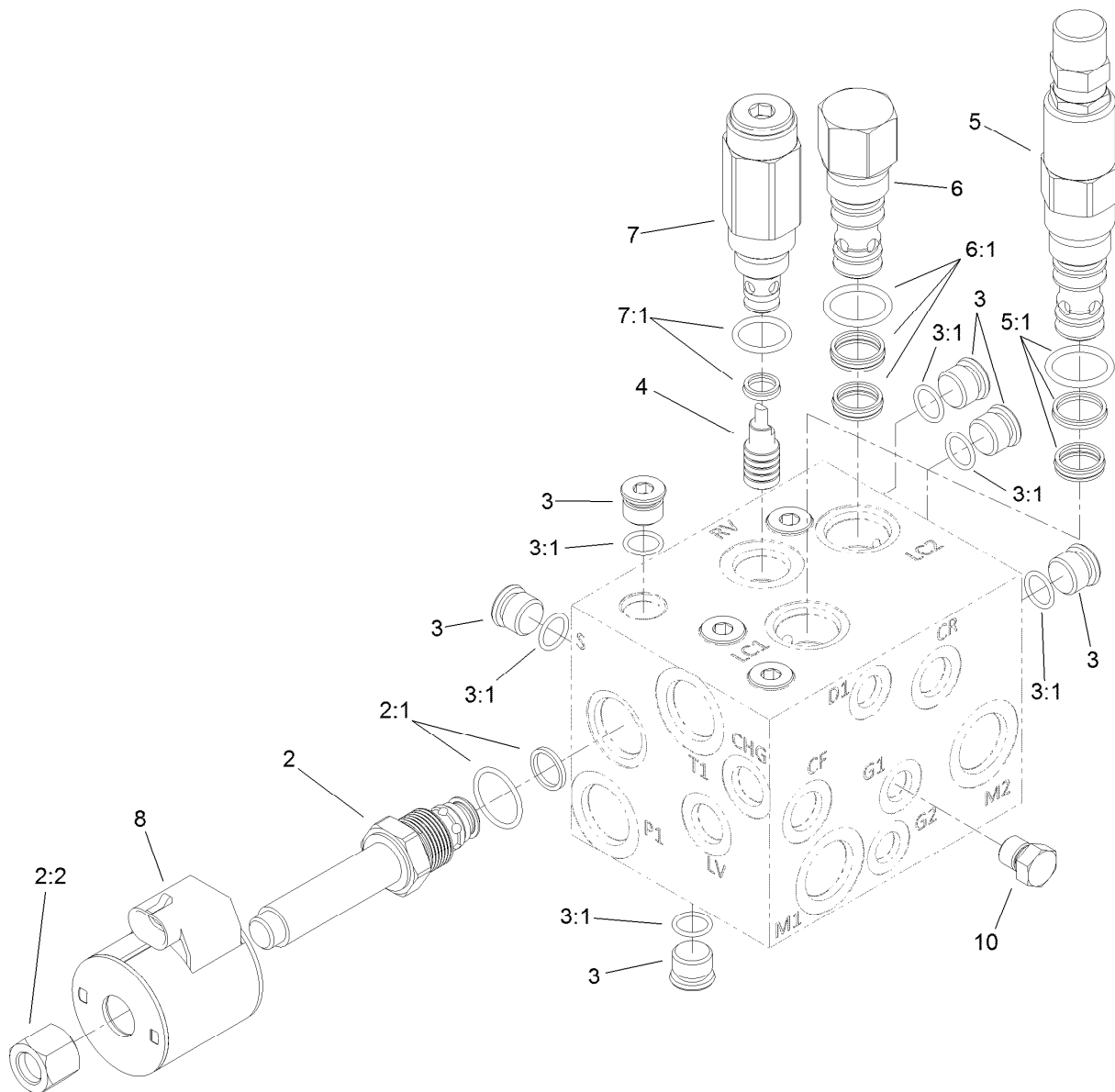
| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 24:1 | 110-9049    | 1    | Filter-Spin On, Fuel/Water |
| 25   | 353-783     | 1    | Fitting-STR                |
| 26   | 3234-17     | 2    | Screw-HHF                  |
| 27   | 32128-44    | 2    | Nut                        |
| 28   | 353-781     | 1    | Fitting-HYD, 90            |
| 32   | 110-6187    | 1    | Hose-Fuel                  |
| 33   | 110-8751    | 1    | Hose-Fuel                  |
| 34   | 110-5701    | 1    | Hose-Fuel                  |
| 35   | 121-7914    | 1    | Hose-Fuel                  |
| 37   | 117-4026    | 1    | Hose-Fuel                  |
| 38   | 121-7852    | 1    | Hose-Fuel                  |
| 39   | 2412-73     | 1    | Clamp-R                    |
| 40   | 145-3154    | 1    | Pump-Fuel, Electric        |
| 44   | 105-4094    | 1    | Hose-Formed                |
| 45   | 2412-129    | 2    | Clamp-Hose                 |
| 46   | 110-8754    | 1    | Trim                       |
| 47   | 2412-80     | 2    | Clamp-Hose                 |
| 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      |

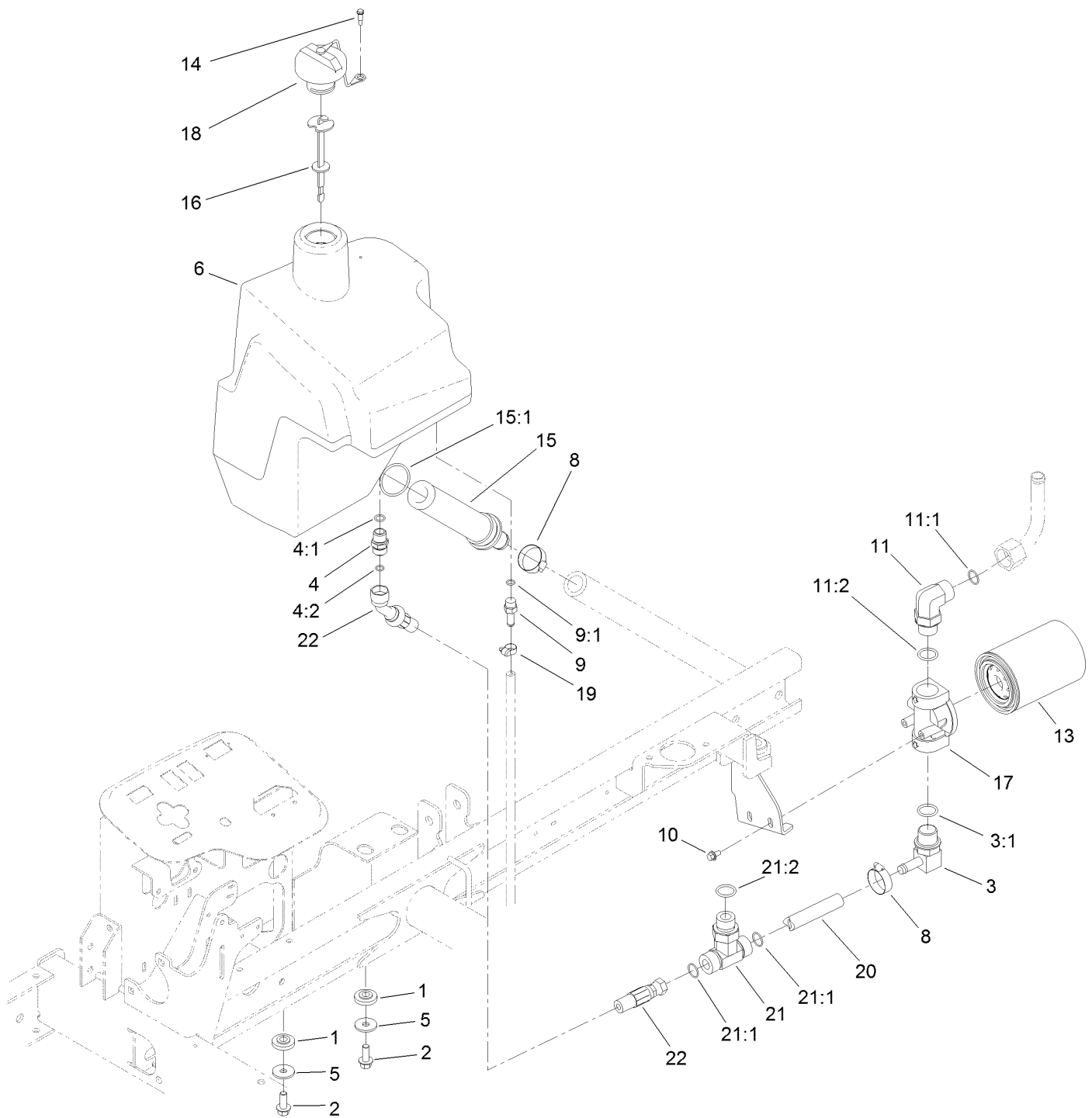
| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 9:1  | 237-78      | 1    | O-Ring           |
| 9:2  | 237-21      | 1    | O-Ring           |
| 10   | 340-66      | 1    | Fitting-Straight |
| 10:1 | 237-80      | 1    | O-Ring           |
| 10:2 | 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 (9/16-24 Unef-2B)        |
| 3    | 353-512     | 9    | Plug                              |
| 3:1  | 237-78      | 1    | O-Ring                            |
| 4    | 105-9157    | 1    | Piston-Pilot                      |
| 5    | 119-2011    | 1    | Valve-Logic, Adjustable           |
| 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                              |

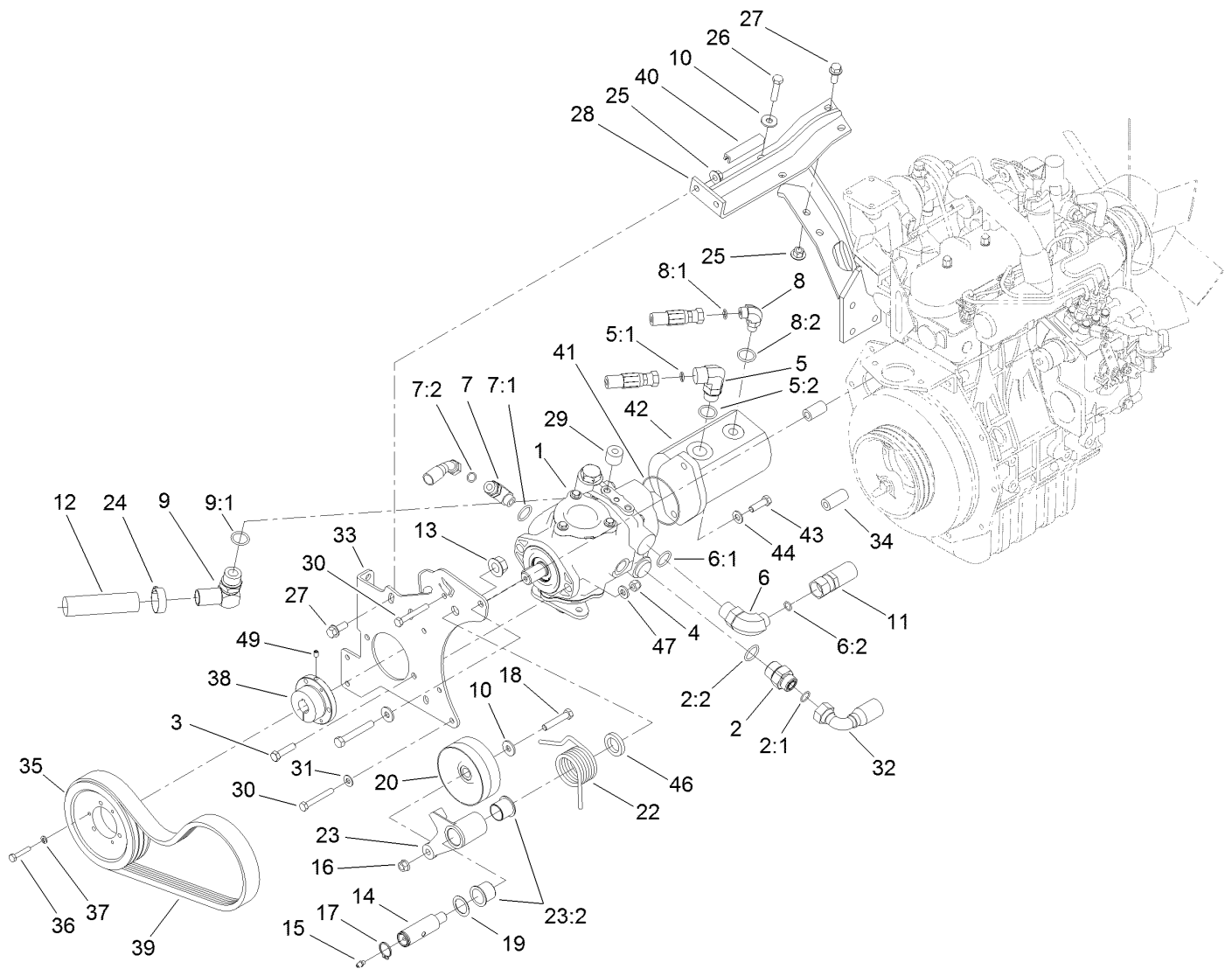
# Hydraulic Tank Assembly



## Hydraulic Tank Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|-----------------------|-------------|--------------------|-------------|--------------------|
| 1           | 240-11             | 4           | Bushing-Flange        | 11:2        | 237-81             | 1           | O-Ring             |
| 2           | 3234-11            | 4           | Screw-HHF             | 13          | 86-3010            | 1           | Filter-Oil         |
| 3           | 353-987            | 1           | Fitting-Elbow, 90     | 14          | 57-5420            | 1           | Screw-Shoulder     |
| 3:1         | 237-81             | 1           | O-Ring                | 15          | 104-7546           | 1           | Tank Strainer ASM  |
| 4           | 100-4890           | 1           | Fitting-Check         | 15:1        | 340-136            | 1           | O-Ring             |
| 4:1         | 237-79             | 1           | O-Ring                | 16          | 119-6968           | 1           | Dipstick-Oil       |
| 4:2         | 237-30             | 1           | O-Ring                | 17          | 92-5821            | 1           | Head-Filter        |
| 5           | 63-8410            | 4           | Washer                | 18          | 93-7160            | 1           | Cap-Oil, HYD       |
| 6           | 104-4840           | 1           | Tank-HYD              | 19          | 2412-36            | 1           | Clamp-Hose         |
| 8           | 2412-34            | 2           | Clamp-Hose            | 20          | 104-0486           | 1           | Hose-HYD           |
| 9           | 353-979            | 1           | Fitting-STR           | 21          | 104-4836           | 1           | Fitting-Tee        |
| 9:1         | 237-42             | 1           | O-Ring                | 21:1        | 237-58             | 2           | O-Ring             |
| 10          | 3234-13            | 2           | Screw-HHF             | 21:2        | 237-81             | 1           | O-Ring             |
| 11          | 340-142            | 1           | Fitting-Elbow, 90 DEG | 22          | 104-0487           | 1           | Hose-HYD           |
| 11:1        | 237-58             | 1           | O-Ring                |             |                    |             |                    |

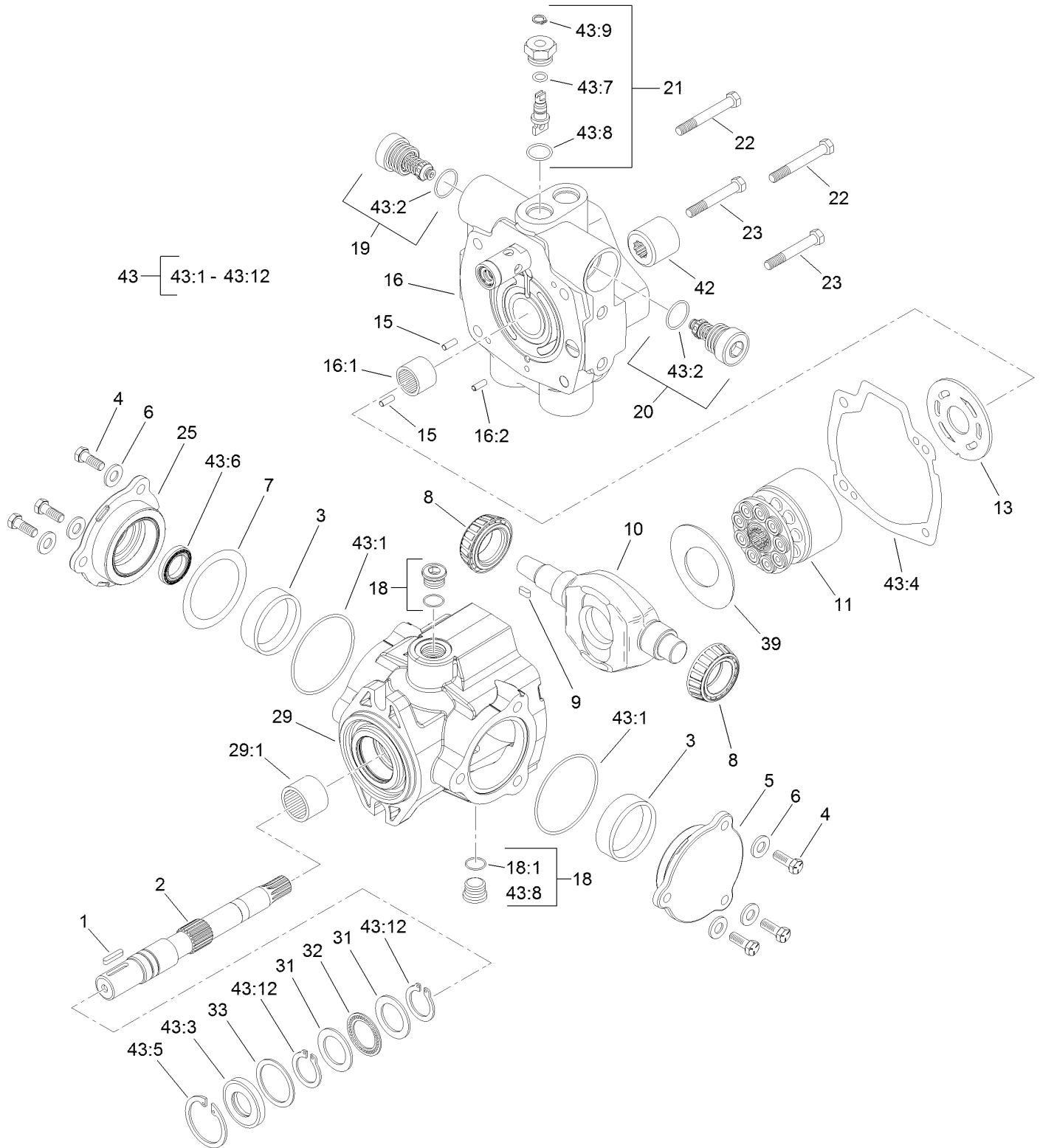
# Hydrostat Assembly



## Hydrostat Assembly (continued)

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>  |
|-------------|--------------------|-------------|-----------------------|-------------|--------------------|-------------|---------------------|
| 1           | 104-4890           | 1           | Piston Pump ASM       | 19          | 74-1810            | 1           | Washer              |
| 2           | 340-8              | 1           | Fitting-Straight      | 20          | 139-6031           | 1           | Pulley-Idler        |
| 2:1         | 237-65             | 1           | O-Ring                | 22          | 115-3488           | 1           | Spring-Torsion      |
| 2:2         | 237-81             | 1           | O-Ring                | 23          | 137-1653           | 1           | Idler Arm ASM       |
| 3           | 323-8              | 2           | Screw-HH              | 23:2        | 126-1963           | 2           | Bushing-Pivot       |
| 4           | 3296-39            | 2           | Nut-Lock, NI          | 24          | 2412-34            | 1           | Clamp-Hose          |
| 5           | 340-17             | 1           | Fitting-Elbow, 90 DEG | 25          | 32128-43           | 4           | Nut-Flange          |
| 5:1         | 237-65             | 1           | O-Ring                | 26          | 323-19             | 2           | Screw-HH            |
| 5:2         | 237-80             | 1           | O-Ring                | 27          | 3234-11            | 4           | Screw-HHF           |
| 6           | 340-139            | 1           | Fitting-Elbow 90      | 28          | 99-3436-0P         | 1           | Support-Pump        |
| 6:1         | 237-81             | 1           | O-Ring                | 29          | 99-3440            | 2           | Spacer              |
| 6:2         | 237-65             | 1           | O-Ring                | 30          | 33114-060          | 4           | Screw-HH            |
| 7           | 340-18             | 1           | Fitting-HYD, 90 DEG   | 31          | 87-8640            | 3           | Washer-Flat         |
| 7:1         | 237-79             | 1           | O-Ring                | 32          | 105-1214           | 1           | Hose-HYD            |
| 7:2         | 237-22             | 1           | O-Ring                | 33          | 120-3375-0P        | 1           | Plate-Mount, Pump   |
| 8           | 340-77             | 1           | Fitting-Elbow, 90 DEG | 34          | 95-8941            | 4           | Spacer-Mount, Pump  |
| 8:1         | 237-22             | 1           | O-Ring                | 35          | 120-3350           | 1           | Pulley-3V           |
| 8:2         | 237-42             | 1           | O-Ring                | 36          | 321-13             | 3           | Screw-HH            |
| 9           | 95-3502            | 1           | Fitting-Elbow 90      | 37          | 3253-3             | 3           | Washer-Lock         |
| 9:1         | 237-81             | 1           | O-Ring                | 38          | 100-4813           | 1           | Bushing-Lock, Taper |
| 10          | 80-6990            | 4           | Washer-Hardened       | 39          | 120-3351           | 1           | Belt-3V             |
| 11          | 108-9008           | 1           | Hose ASM              | 40          | 70-2041            | 1           | Trim - Edge         |
| 12          | 104-5486           | 1           | Hose                  | 41          | 353-949            | 1           | O-Ring              |
| 13          | 32128-54           | 1           | Nut-HF                | 42          | 108-9036           | 1           | HYD Gear Pump ASM   |
| 14          | 99-3624            | 1           | Shaft-Pivot, Idler    | 43          | 323-7              | 2           | Screw-HH            |
| 15          | 302-5              | 1           | Fitting-Grease        | 44          | 3256-24            | 2           | Washer-Plain        |
| 16          | 32128-21           | 1           | Nut-HF Lock           | 46          | 99-3625            | 1           | Spacer-Arm, Idler   |
| 17          | 32151-36           | 1           | Ring-Retaining        | 47          | 100-4852           | 2           | Washer-Hardened     |
| 18          | 323-10             | 1           | Screw-HH              | 49          | 3245-7             | 1           | Screw-Set           |

# Hydraulic Pump Assembly No. 104-4890

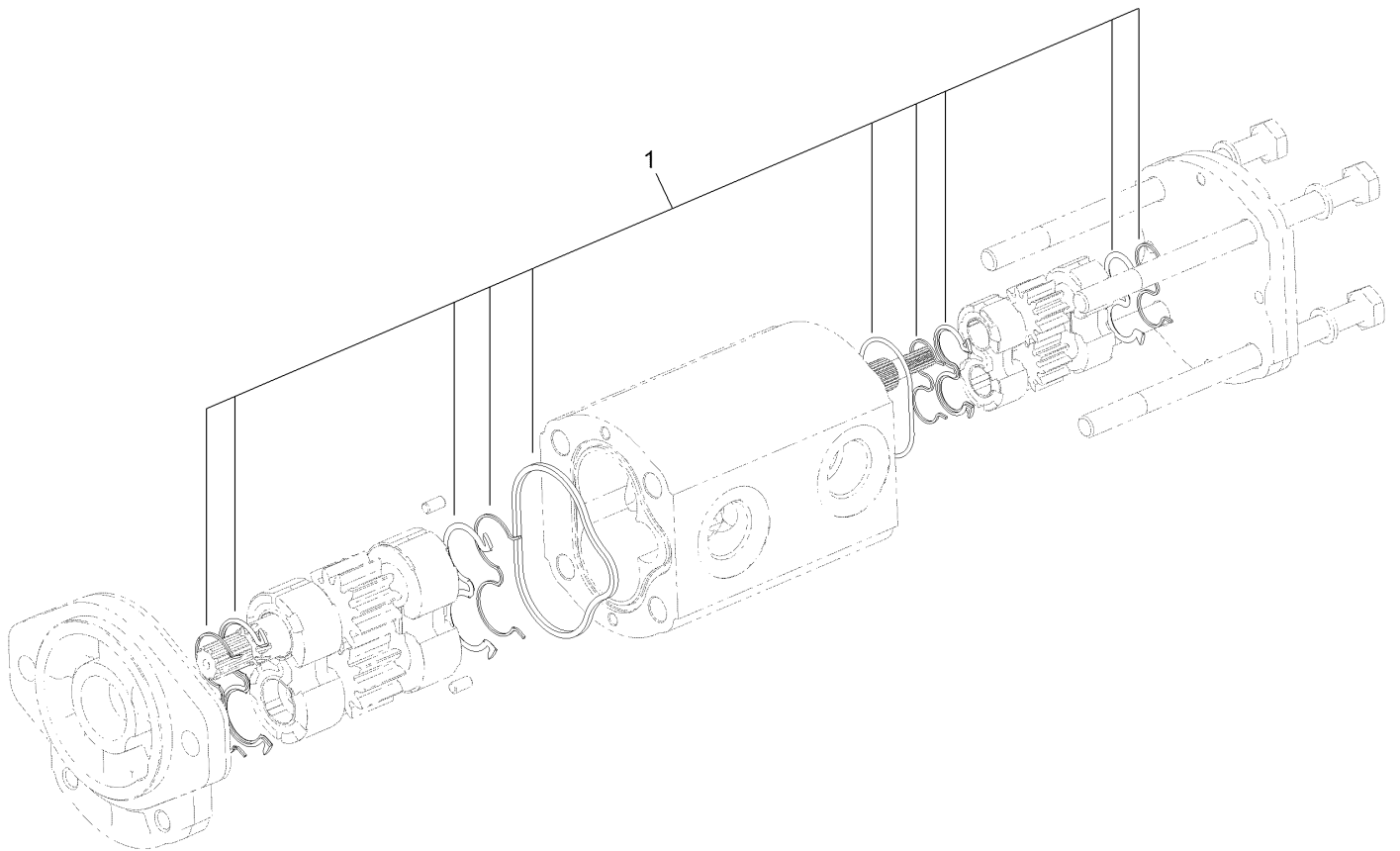


# Hydraulic Pump Assembly No. 104-4890 (continued)

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

● Not serviced separately

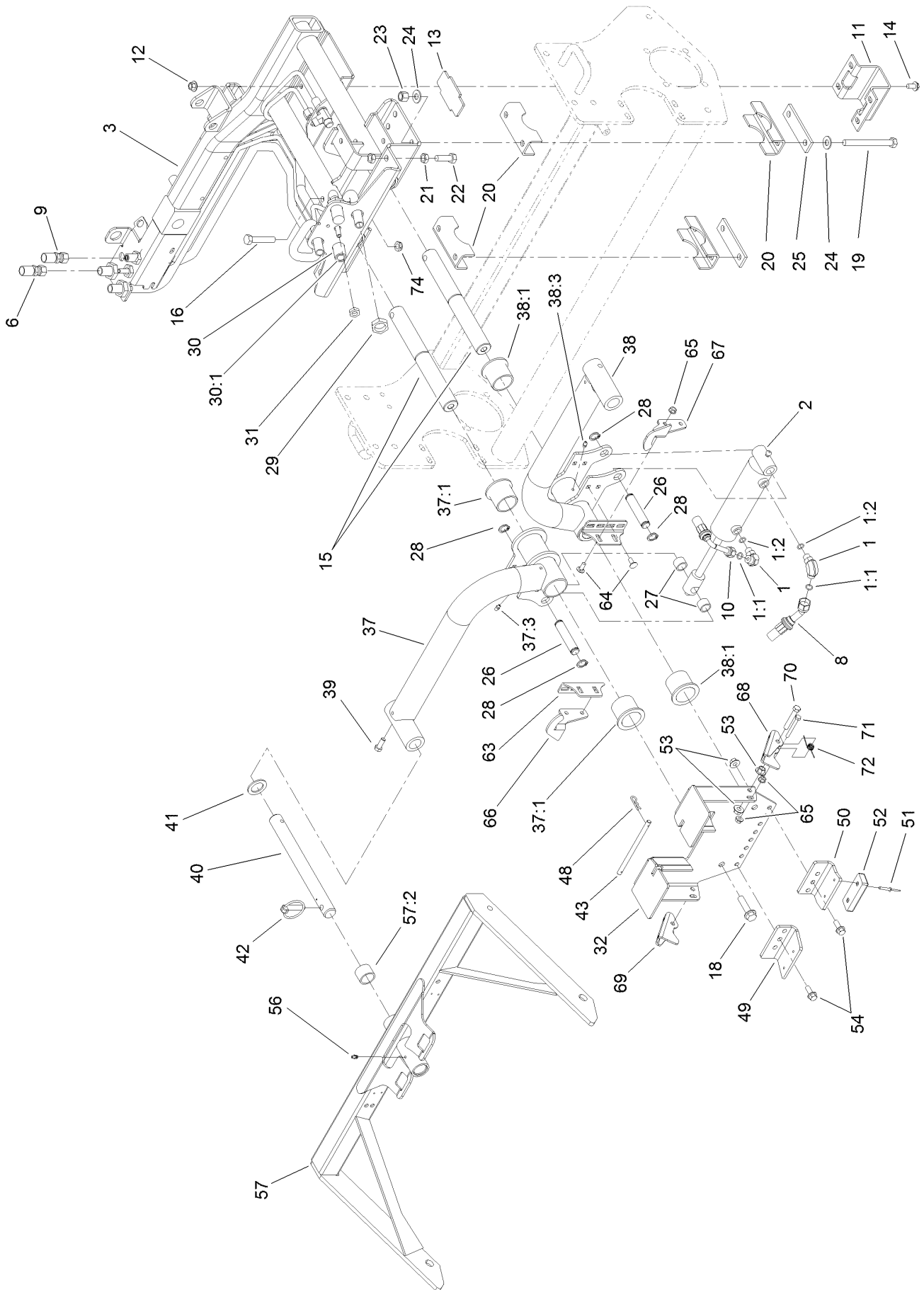
# Hydraulic Gear Pump Assembly No. 108-9036



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

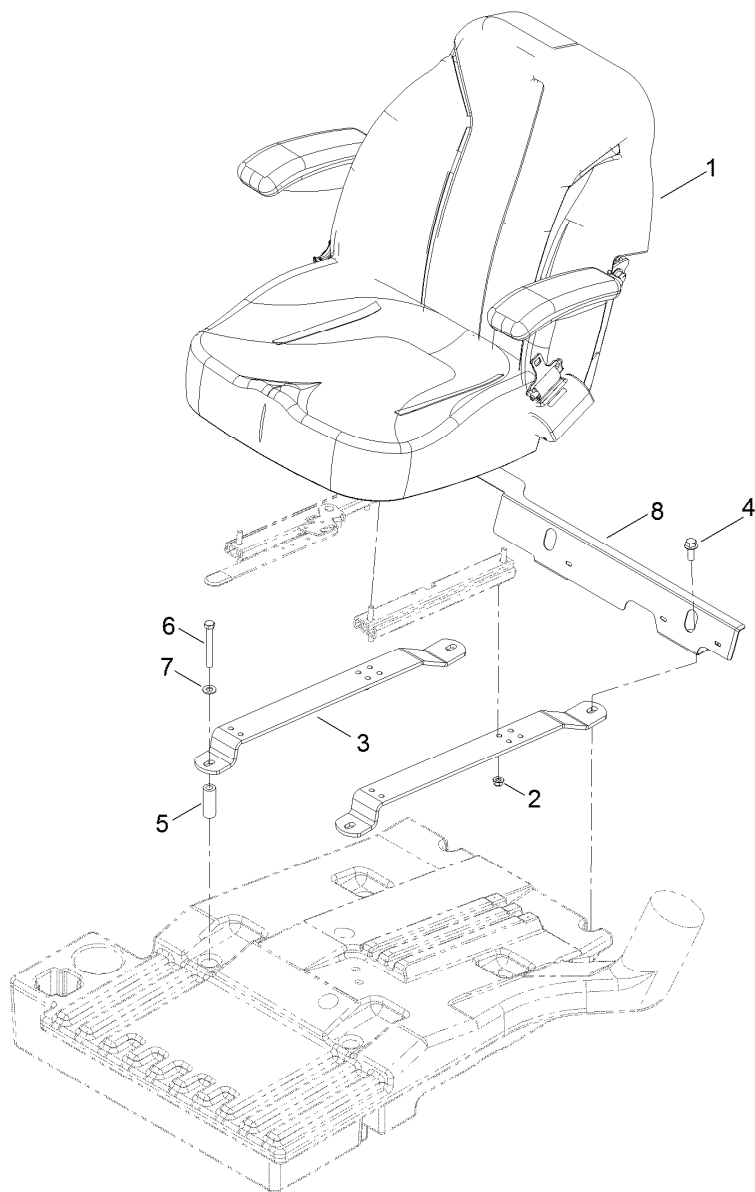
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 110-8755           | 1           | Seal Kit           |

# Carrier Assembly



## Carrier Assembly (continued)

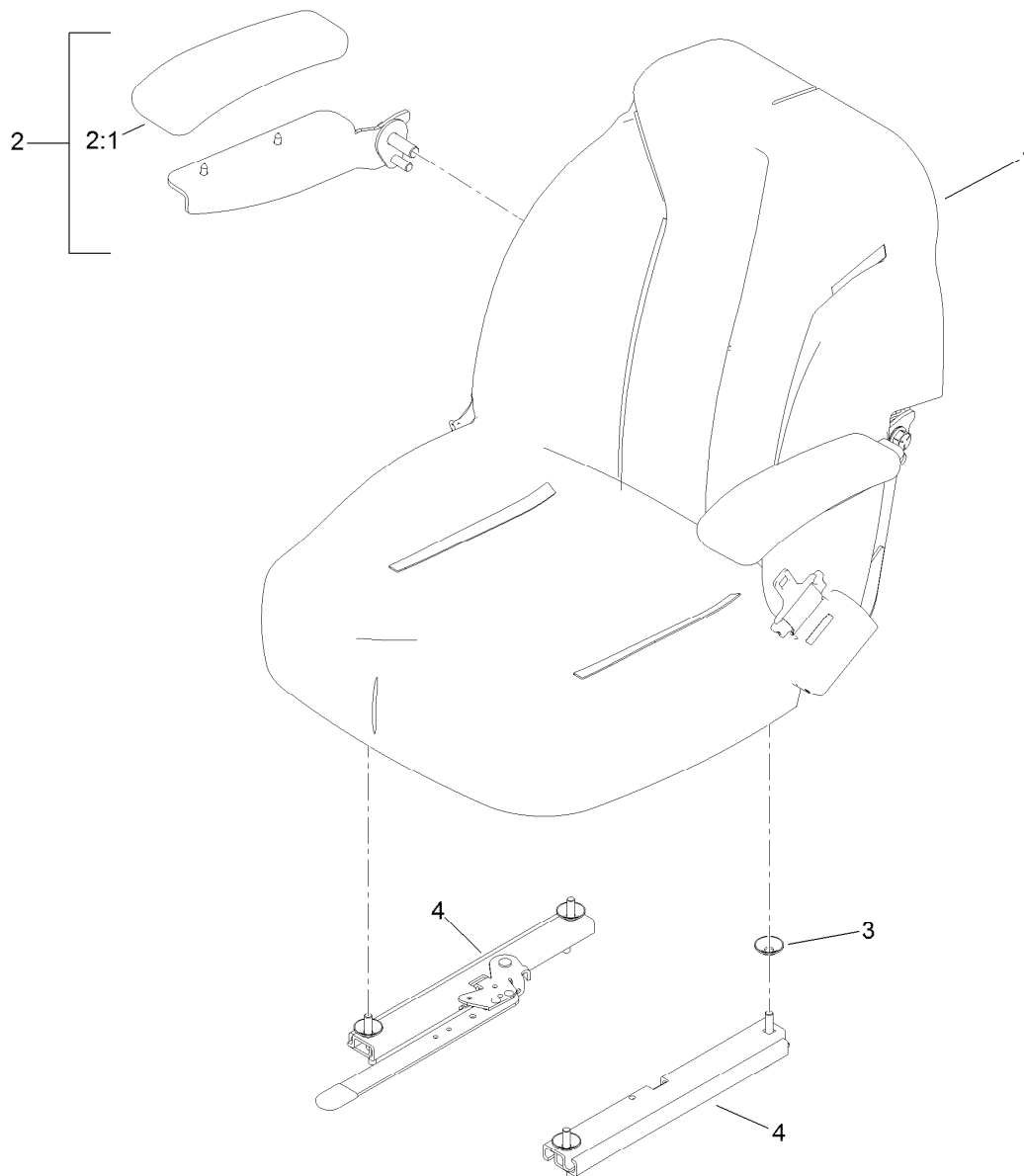
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>    | <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>      |
|-------------|--------------------|-------------|-----------------------|-------------|--------------------|-------------|-------------------------|
| 1           | 340-77             | 2           | Fitting-Elbow, 90 DEG | 37:1        | 69-6470            | 2           | Bushing-Caster          |
| 1:1         | 237-22             | 1           | O-Ring                | 37:3        | 302-5              | 1           | Fitting-Grease          |
| 1:2         | 237-42             | 1           | O-Ring                | 38          | 115-3465           | 1           | LH Short Liftarm ASM    |
| 2           | 112-9916           | 1           | HYD Cylinder ASM      | 38:1        | 69-6470            | 2           | Bushing-Caster          |
| 3           | 100-4939-03        | 1           | Carrier-Sidewinder    | 38:3        | 302-5              | 1           | Fitting-Grease          |
| 6           | 99-3575            | 1           | Hose-HYD              | 39          | 323-6              | 2           | Screw-HH                |
| 8           | 104-0405           | 1           | Hose-HYD              | 40          | 105-7560           | 2           | Shaft-Cu Pivot          |
| 9           | 108-9013           | 1           | Hose ASM              | 41          | 3-6781             | 2           | Washer-Flat             |
| 10          | 104-0406           | 1           | Hose-HYD              | 42          | 283-71             | 2           | Pin-Lynch               |
| 11          | 95-8904-0P         | 1           | Bracket               | 43          | 104-0472           | 1           | Rod                     |
| 12          | 32128-43           | 4           | Nut-Flange            | 48          | 3290-467           | 2           | Pin-Hair                |
| 13          | 95-8538            | 1           | Slide-Plastic         | 49          | 110-8793-03        | 1           | Stop-Deck, RH           |
| 14          | 3234-11            | 4           | Screw-HHF             | 50          | 110-8794-03        | 1           | Stop-Deck, LH           |
| 15          | 95-8531            | 2           | Shaft-Pivot, Liftarm  | 51          | 3269-11            | 4           | Rivet-Pop               |
| 16          | 325-10             | 2           | Screw-HH              | 52          | 86-5350            | 2           | Bumper-Rubber           |
| 18          | 3234-27            | 2           | Screw-HHF             | 53          | 32128-43           | 4           | Nut-Flange              |
| 19          | 325-19             | 4           | Screw-HH              | 54          | 3234-11            | 4           | Screw-HHF               |
| 20          | 95-8884            | 4           | Clamp                 | 56          | 302-5              | 2           | Fitting-Grease          |
| 21          | 3218-5             | 4           | Nut-Jam               | 57          | 110-8787           | 2           | Front Carrier Frame ASM |
| 22          | 325-7              | 2           | Screw-HH              | 57:2        | 108-4000           | 2           | Bushing                 |
| 23          | 3296-23            | 4           | Nut-Lock, NI          | 63          | 104-4828-03        | 2           | Bracket-Actuator        |
| 24          | 87-7270            | 8           | Washer-Thrust         | 64          | 3230-23            | 8           | Bolt-CARR               |
| 25          | 99-3373            | 2           | Bar-Support, Slide    | 65          | 32128-44           | 12          | Nut                     |
| 26          | 95-8575            | 2           | Pin-Clevis            | 66          | 104-4826-03        | 1           | Actuator-RH             |
| 27          | 75-9590            | 2           | Spacer-Cylinder       | 67          | 104-4827-03        | 1           | Actuator-LH             |
| 28          | 32120-93           | 4           | Ring-Retaining        | 68          | 104-4819-03        | 1           | Bracket-Pivot, LH       |
| 29          | 340-74             | 4           | Nut-Lock, Bulkhead    | 69          | 104-4825-03        | 1           | Bracket-Pivot, RH       |
| 30          | 99-3640            | 1           | Tube ASM              | 70          | 323-12             | 2           | Screw-HH                |
| 30:1        | 237-65             | 2           | O-Ring                | 71          | 322-12             | 2           | Screw-HH                |
| 31          | 340-78             | 1           | Nut-Lock              | 72          | 104-4821           | 2           | Spring-Torsion          |
| 32          | 104-4820-03        | 1           | Bracket-Stop, Carrier | 74          | 3296-45            | 2           | Nut-Hex                 |
| 37          | 115-3466           | 1           | RH Short Liftarm ASM  |             |                    |             |                         |



## Seat Assembly

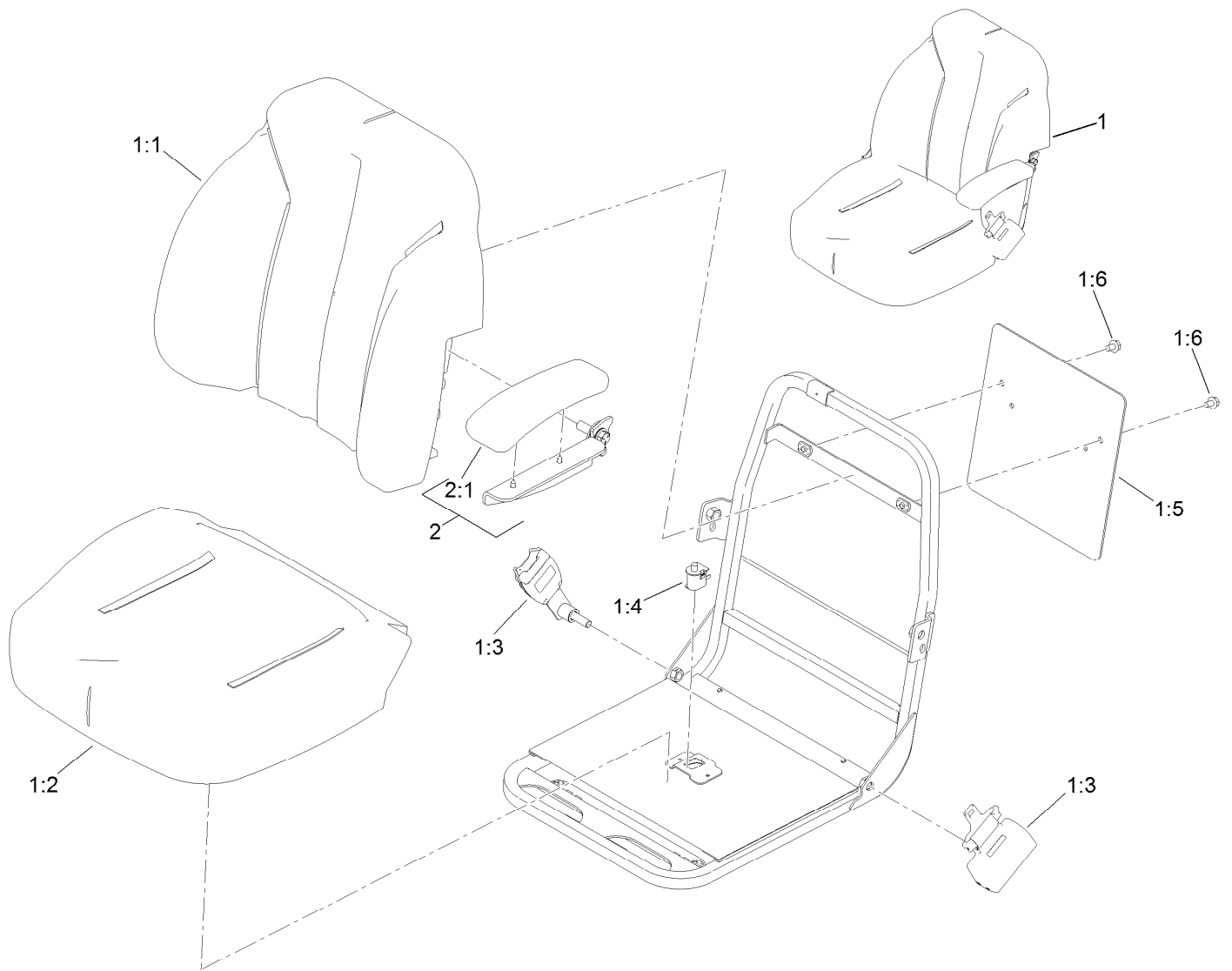
| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 1    | 139-2679    | 1    | Seat And Track ASM  |
| 2    | 104-8300    | 4    | Nut-HF, NI          |
| 3    | 121-3655-03 | 2    | Strap-Support, Seat |
| 4    | 3234-11     | 2    | Screw-HHF           |
| 5    | 104-0466    | 2    | Spacer              |
| 6    | 323-14      | 2    | Screw-HH            |
| 7    | 3256-24     | 2    | Washer-Plain        |
| 8    | 104-4833-03 | 1    | Shield-Heat         |
| 99   | 3290-378    | 1    | Tie-Cable ●         |

● Not illustrated



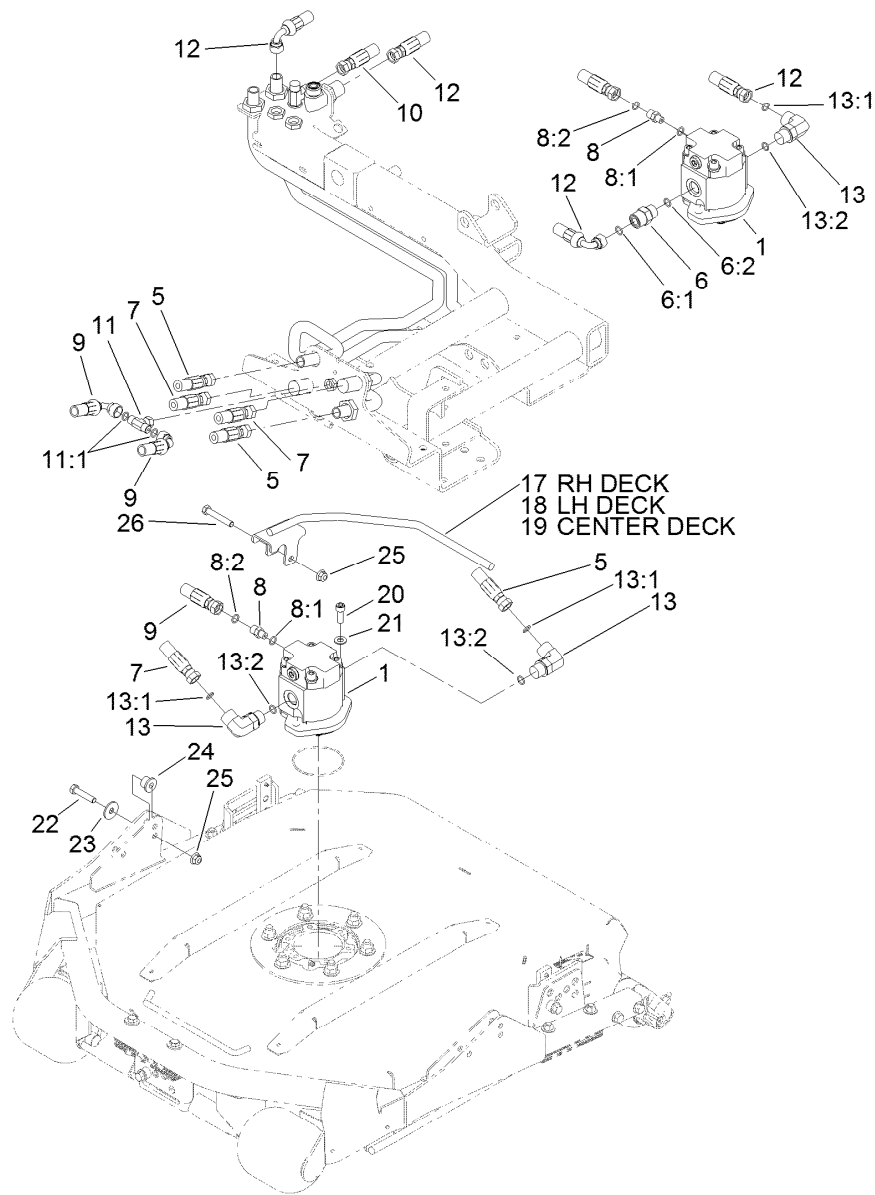
## Seat and Track Assembly No. 139-2679

| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 1    | 139-2700    | 1    | Seat ASM          |
| 2    | 121-3658    | 1    | RH Arm Rest Kit   |
| 2:1  | 110-4163    | 1    | Cushion-Rest, Arm |
| 3    | 136-9002    | 4    | Spacer-Mounting   |
| 4    | 126-2177    | 1    | Track-Seat        |



## Seat Assembly No. 139-2700

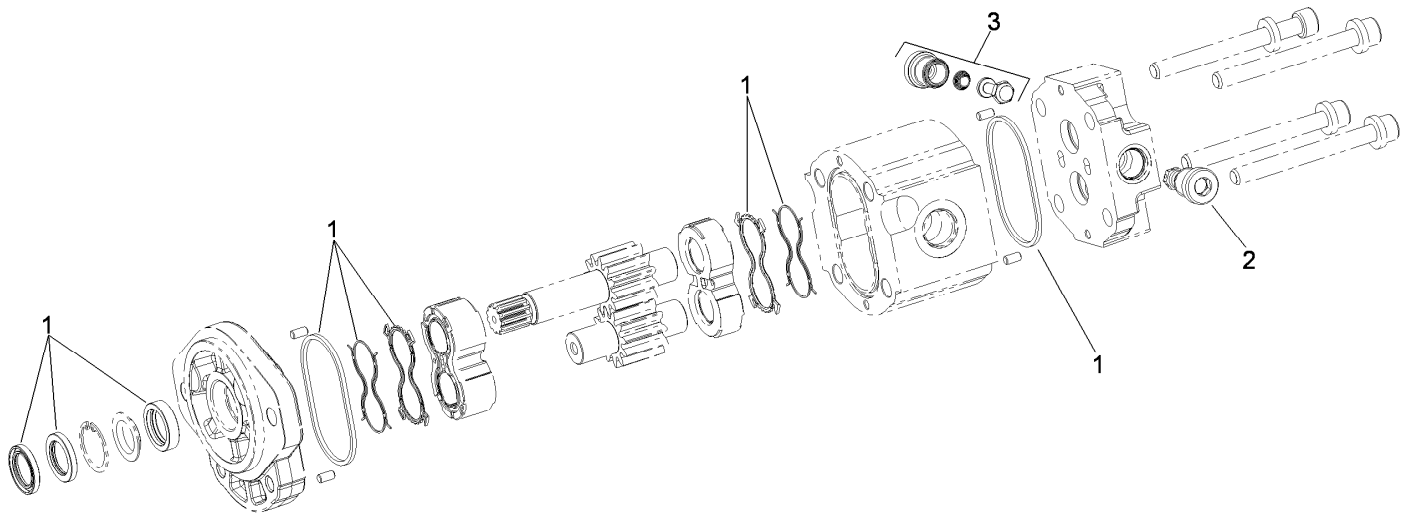
| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 1    | 139-2680    | 1    | Seat ASM           |
| 1:1  | 139-2705    | 1    | Cover-Seat, Back   |
| 1:2  | 139-2706    | 1    | Cover-Seat, Bottom |
| 1:3  | 139-2707    | 1    | Seat Belt Kit      |
| 1:4  | 82-2190     | 1    | Switch-Bail        |
| 1:5  | 139-2701    | 1    | Plate-Decal        |
| 1:6  | 3234-30     | 2    | Screw-HHF          |
| 2    | 121-3660    | 1    | LH Arm Rest Kit    |
| 2:1  | 110-4163    | 1    | Cushion-Rest, Arm  |



## Rotary Motor and Cutting Unit Assembly

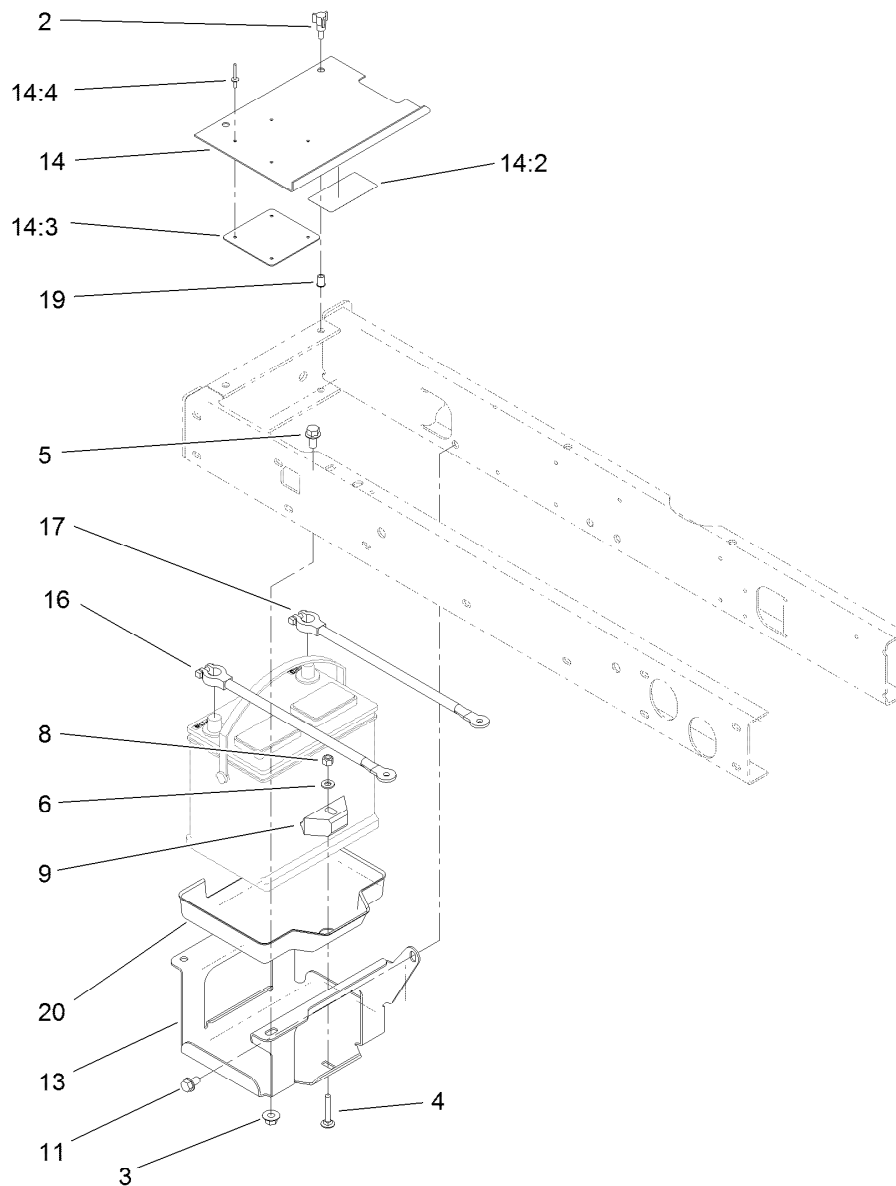
| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 1    | 117-5141    | 3    | HYD Motor ASM    |
| 5    | 105-1216    | 2    | Hose-HYD         |
| 6    | 340-7       | 1    | Fitting-Straight |
| 6:1  | 237-65      | 1    | O-Ring           |
| 6:2  | 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 | 237-21      | 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-Plain          |
| 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

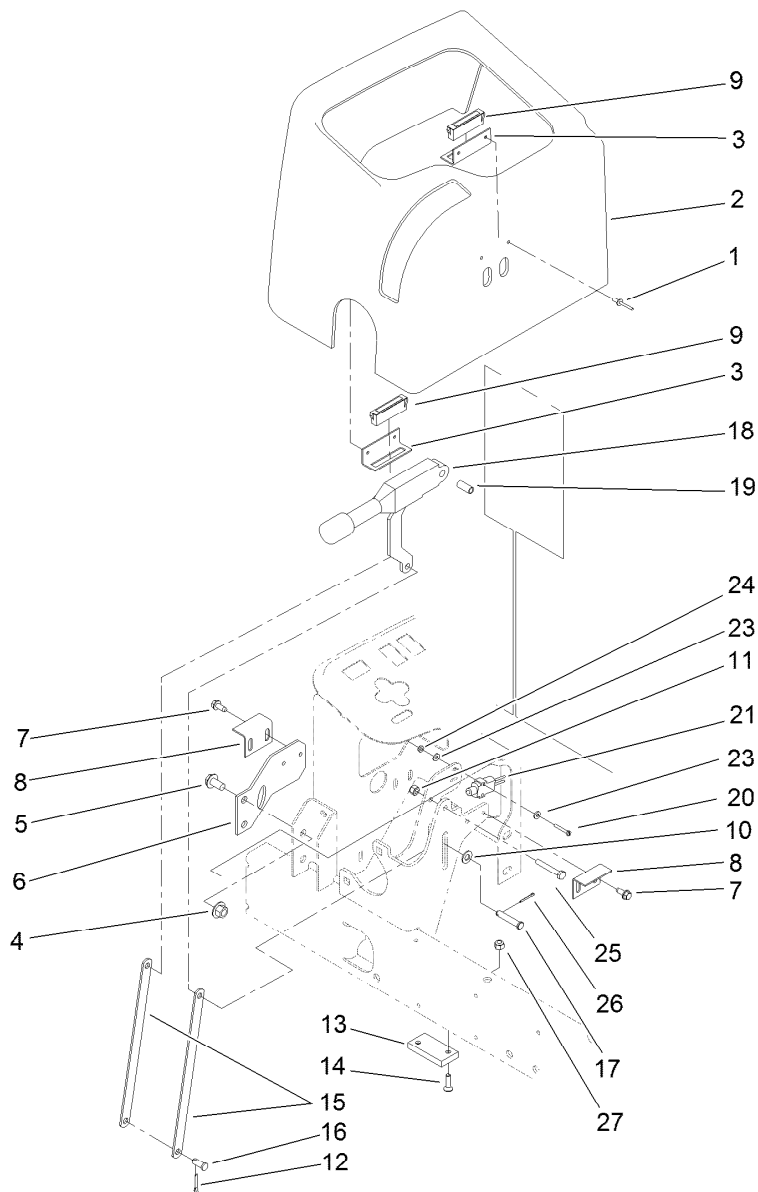
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>   |
|-------------|--------------------|-------------|----------------------|
| 1           | 117-0235           | 1           | Seal Kit             |
| 2           | 107-7820           | 1           | Valve-Relief         |
| 3 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



## Battery Assembly

| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 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    | 138-6335    | 1    | Retainer-Battery |
| 11   | 32144-15    | 1    | Screw-HHFTF      |
| 13   | 95-8796-03  | 1    | Support-Battery  |

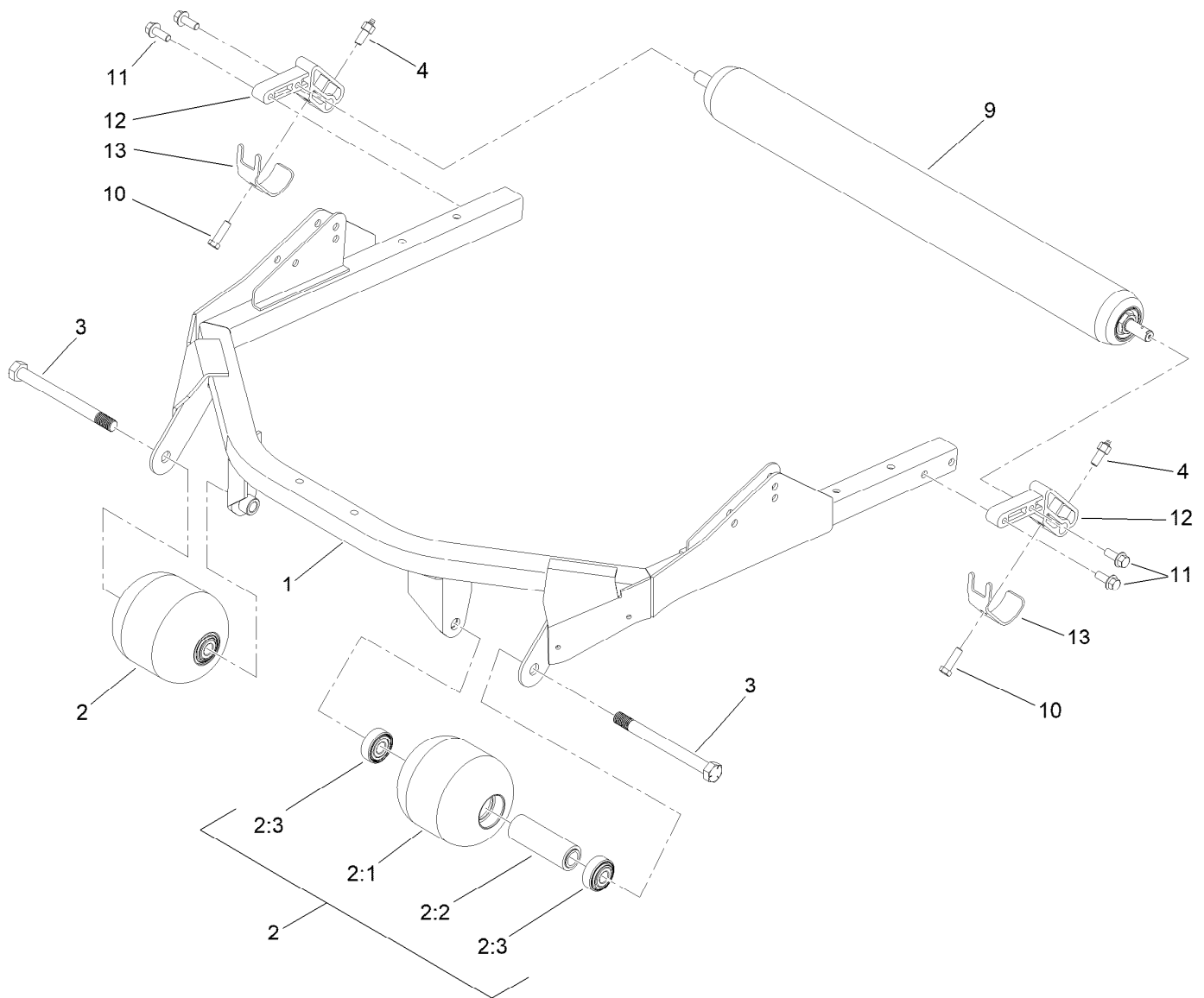
| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 14   | 99-3602     | 1    | Battery Cover ASM        |
| 14:2 | 93-7276     | 1    | Decal-Danger             |
| 14:3 | 87-7620     | 1    | Shield-Terminal, Battery |
| 14:4 | 3269-27     | 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

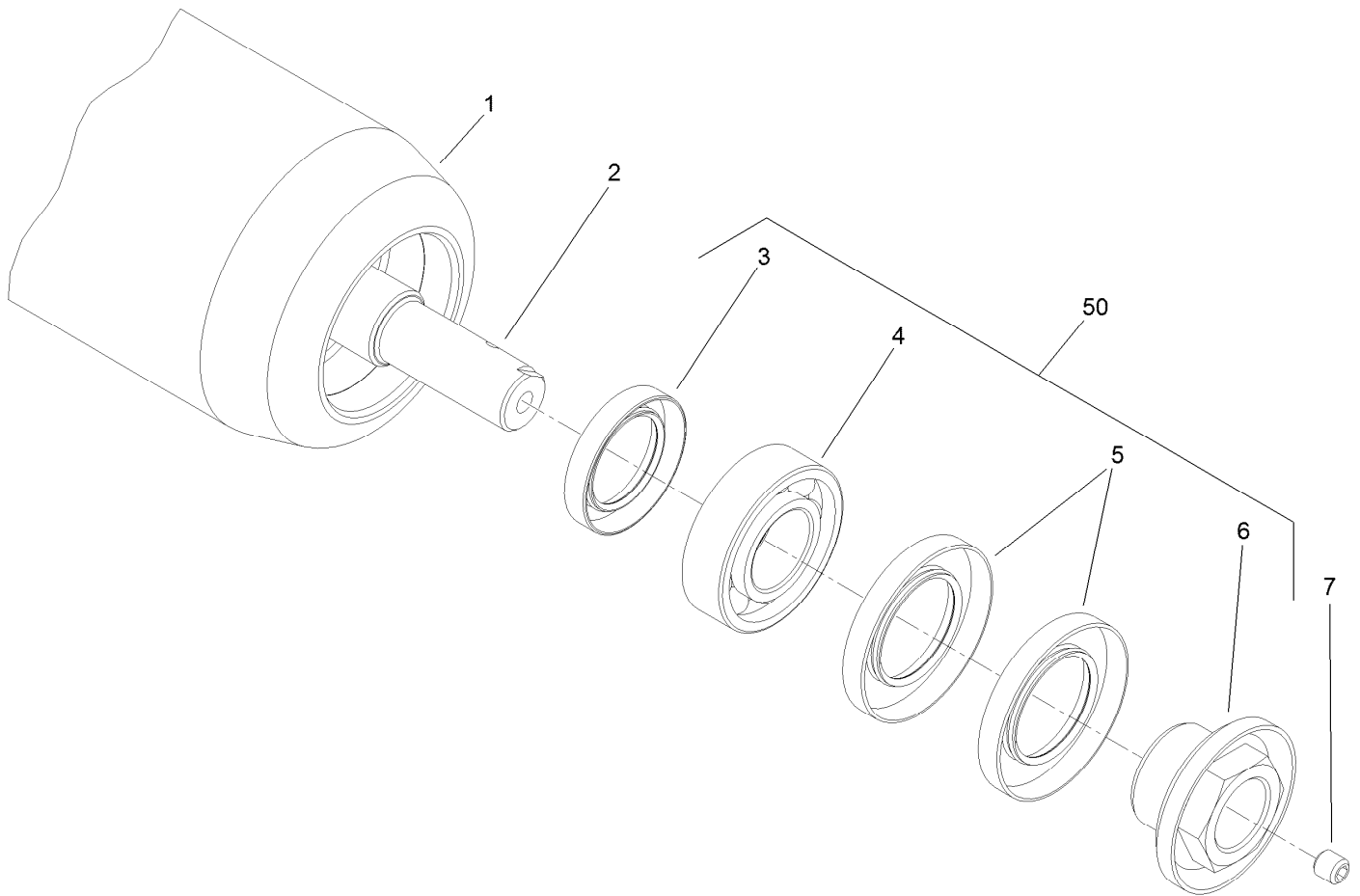
| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 1    | 3269-5      | 4    | Rivet-Pop                |
| 2    | 95-8707     | 1    | Cover-Dash               |
| 3    | 95-8763     | 2    | Bracket-Hold Down, Cover |
| 4    | 32128-43    | 2    | Nut-Flange               |
| 5    | 3234-1      | 2    | Screw-HHF                |
| 6    | 95-8764-0P  | 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    | 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-HH              |
| 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   | 104-7201    | 2    | Nut-HF, NI            |



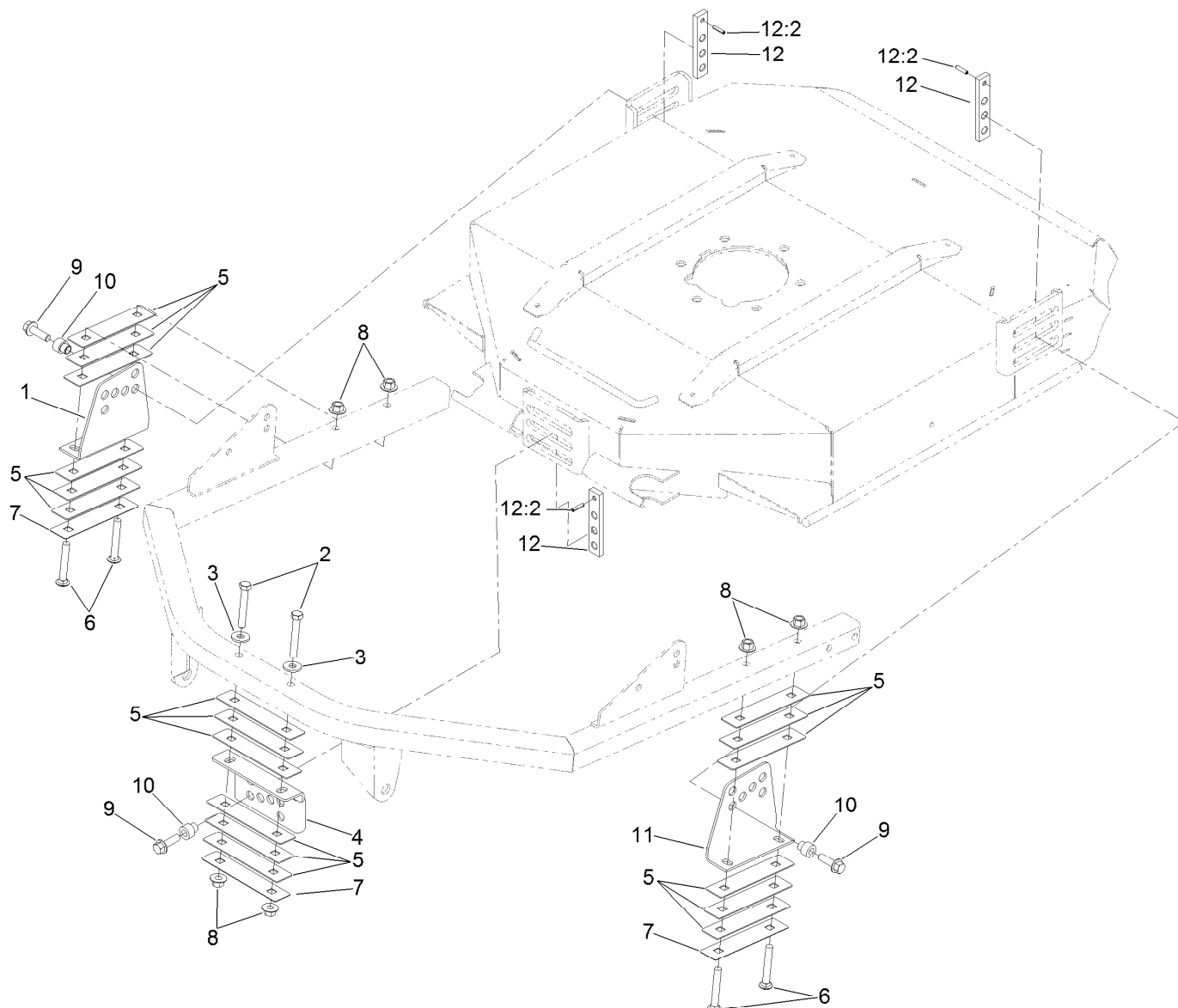
## Roller and Carrier Frame Assembly

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 1    | 100-5780-03 | 1    | Frame-Deck           |
| 2    | 136-2908    | 2    | Roller ASM           |
| 2:1  | 104-1093    | 1    | Roller               |
| 2:2  | 100-5762    | 1    | Spacer-Bearing       |
| 2:3  | 120-3366    | 2    | Bearing              |
| 3    | 136-2924    | 2    | Screw-HH             |
| 4    | 127-6422    | 2    | Screw-Grease, Roller |
| 9    | 137-6141    | 1    | Rear 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         |



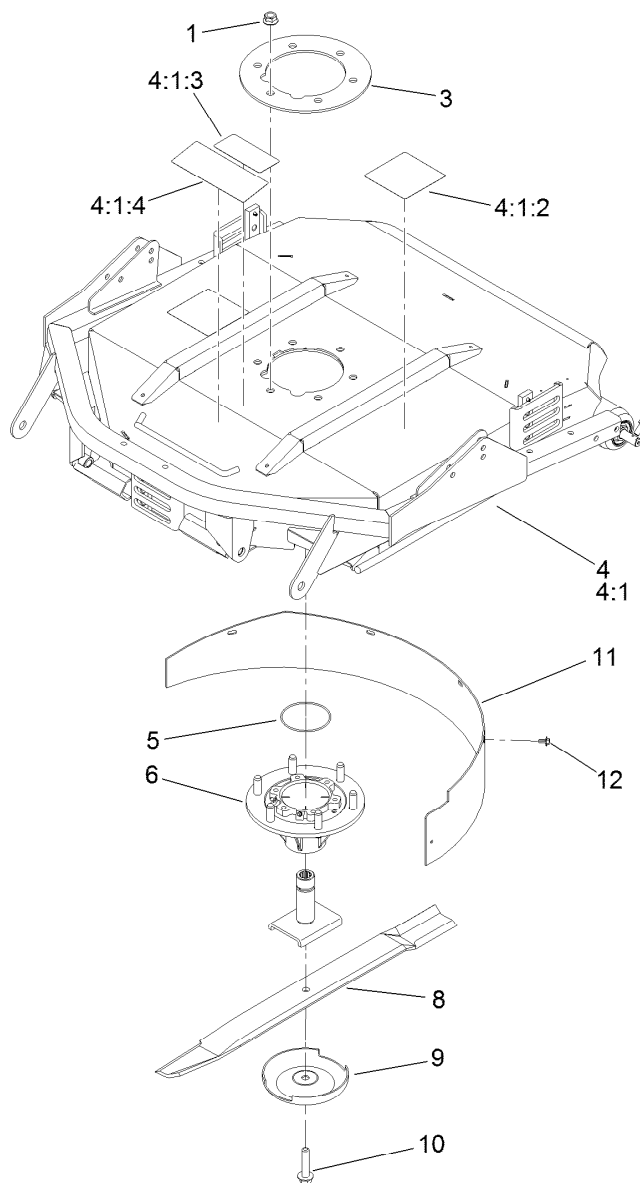
## Rear Roller Assembly No. 137-6141

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



## Height-of-Cut Bracket Assembly

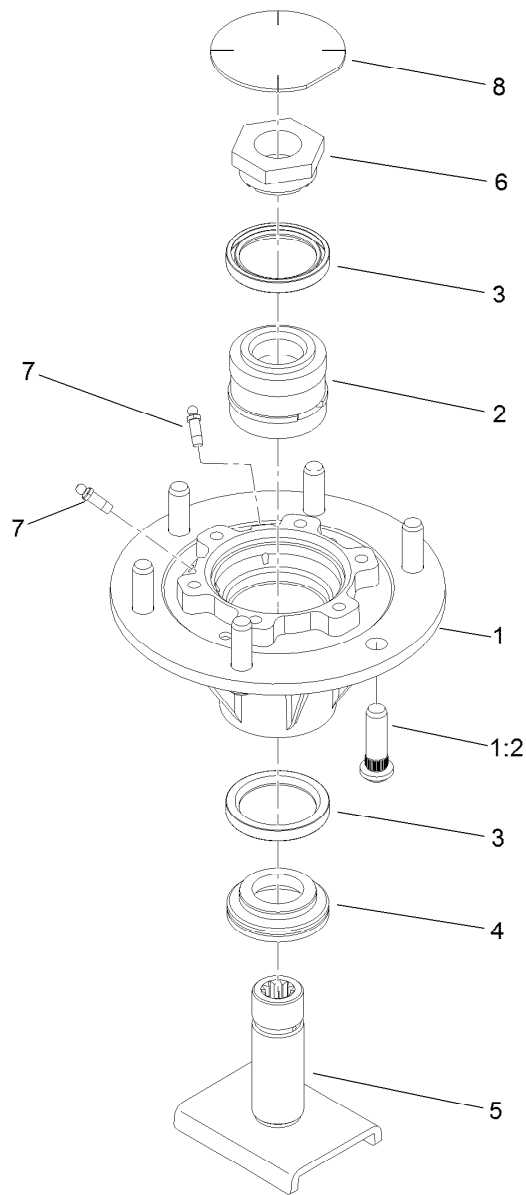
| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 1    | 100-5797-03 | 1    | Bracket-HOC, RH     |
| 2    | 323-12      | 2    | Screw-HH            |
| 3    | 80-6990     | 2    | Washer-Hardened     |
| 4    | 104-1052-03 | 1    | Bracket-HOC, 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   | 136-2921    | 3    | HOC Plate ASM       |
| 12:2 | 32121-5     | 1    | Pin-Spring          |



## Chamber, Blade and Spindle Assembly

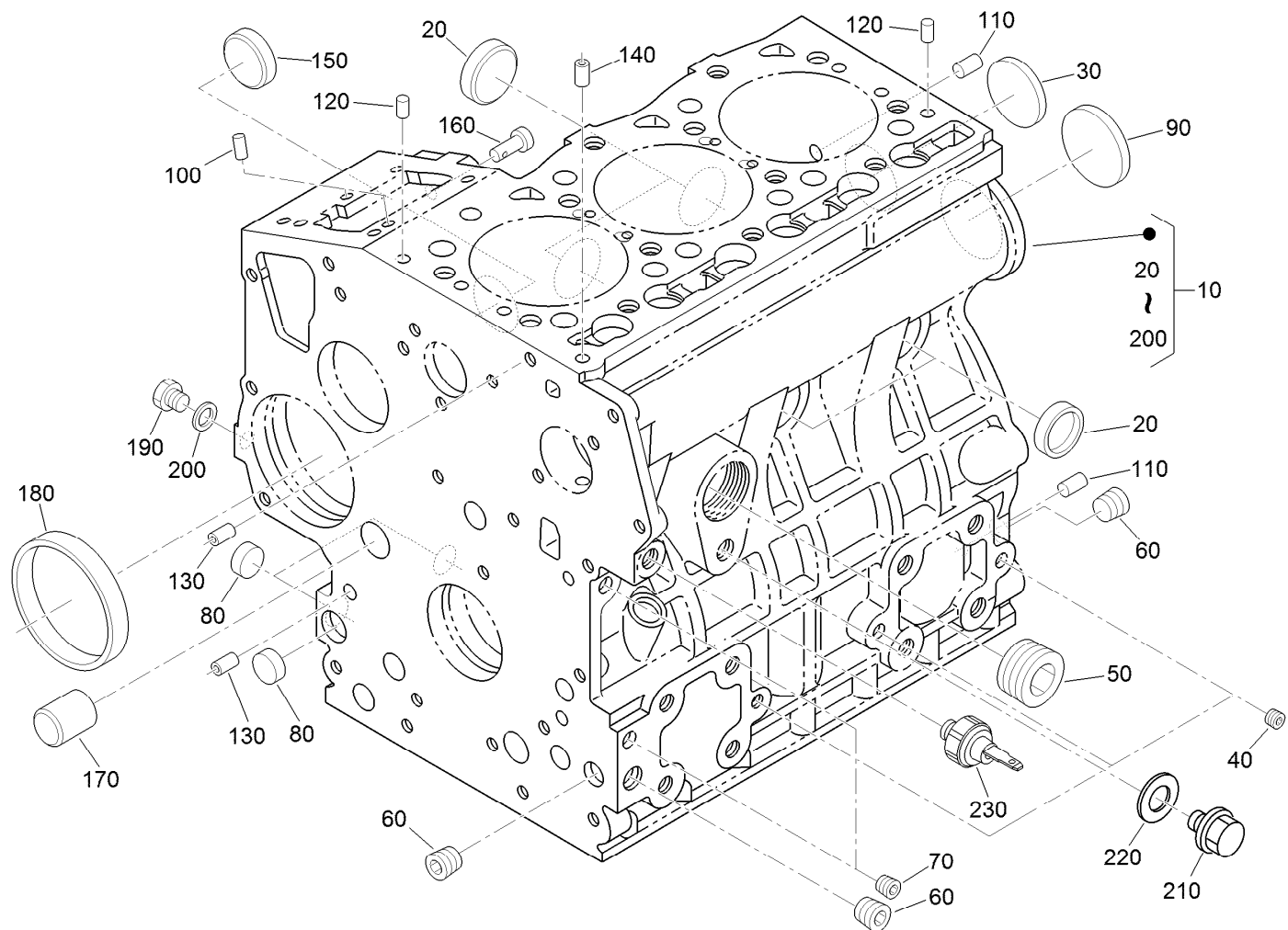
| Ref.  | Part Number | Qty. | Description              |
|-------|-------------|------|--------------------------|
| 1     | 32128-39    | 6    | Nut-HF                   |
| 3     | 104-1051-03 | 1    | Plate-Spindle            |
| 4     | 127-6389    | 1    | Deck Chamber Service ASM |
| 4:1   |             | 1    | Chamber ASM ●            |
| 4:1:2 | 117-4764    | 2    | Decal-Danger             |
| 4:1:3 | 93-7818     | 1    | Decal-Torque, Blade Bolt |
| 4:1:4 | 121-3627    | 1    | Decal-Height Of Cut      |
| 5     | 237-161     | 1    | O-Ring                   |
| 6     | 121-3666    | 1    | Spindle ASM              |
| 8     | 107-0235-03 | 1    | Blade-Atomic             |
| 8     | 108-9026    | 1    | Blade-27", 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              |

● Not serviced separately



## Spindle Assembly No. 121-3666

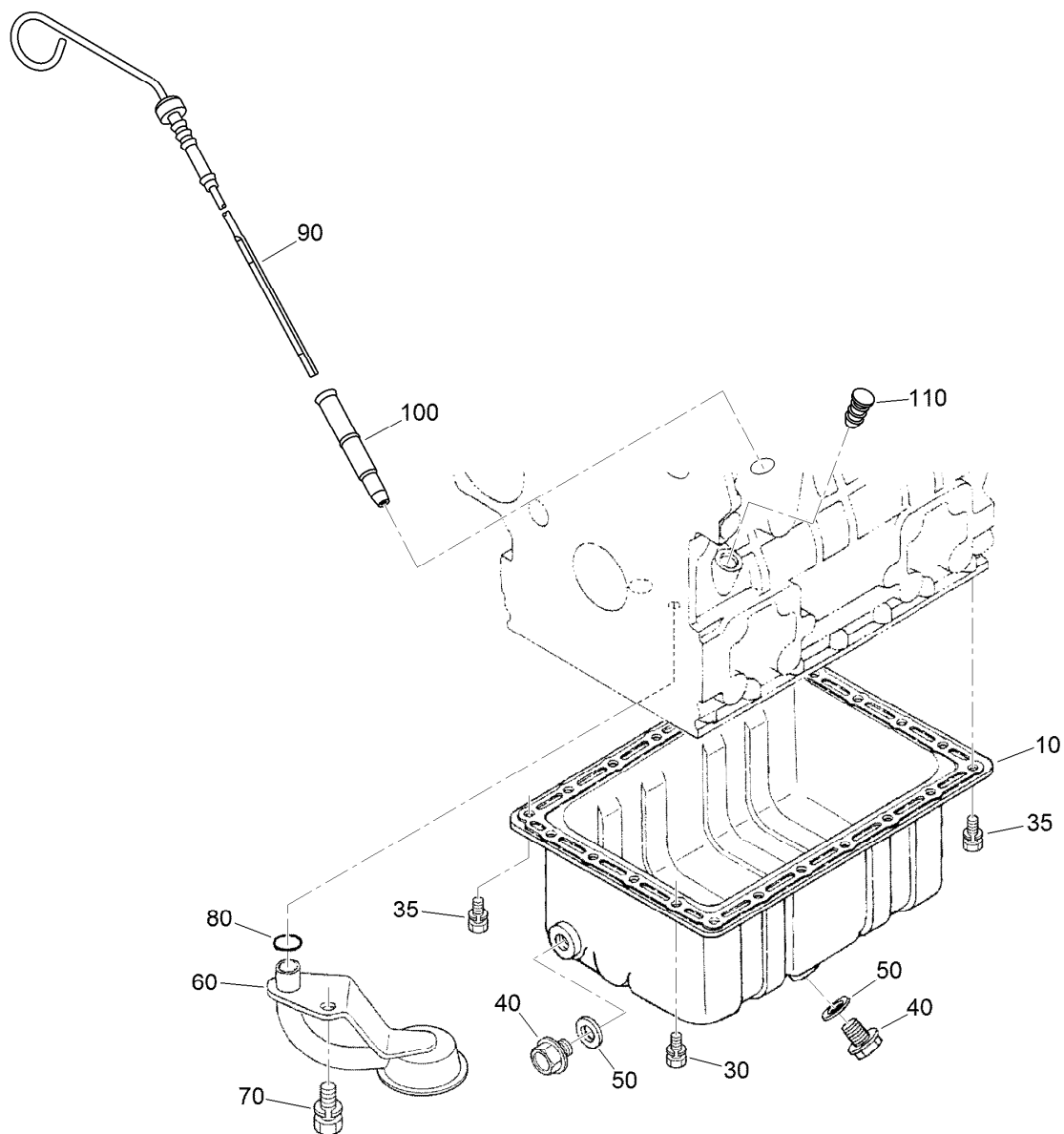
| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 1    | 115-3434    | 1    | Spindle                |
| 1:2  | 10-6830     | 6    | Stud-Type, Drive       |
| 2    | 100-5703    | 1    | Spacer And Bearing ASM |
| 3    | 253-154     | 2    | Seal-Oil               |
| 4    | 138-6416    | 1    | Spacer-Spindle, Shaft  |
| 5    | 121-3664    | 1    | Spindle Shaft ASM      |
| 6    | 100-5709    | 1    | Nut-Spindle, Spcl      |
| 7    | 302-62      | 2    | Fitting-Grease         |
| 8    | 94-2703     | 1    | Plug                   |



## Crankcase Assembly

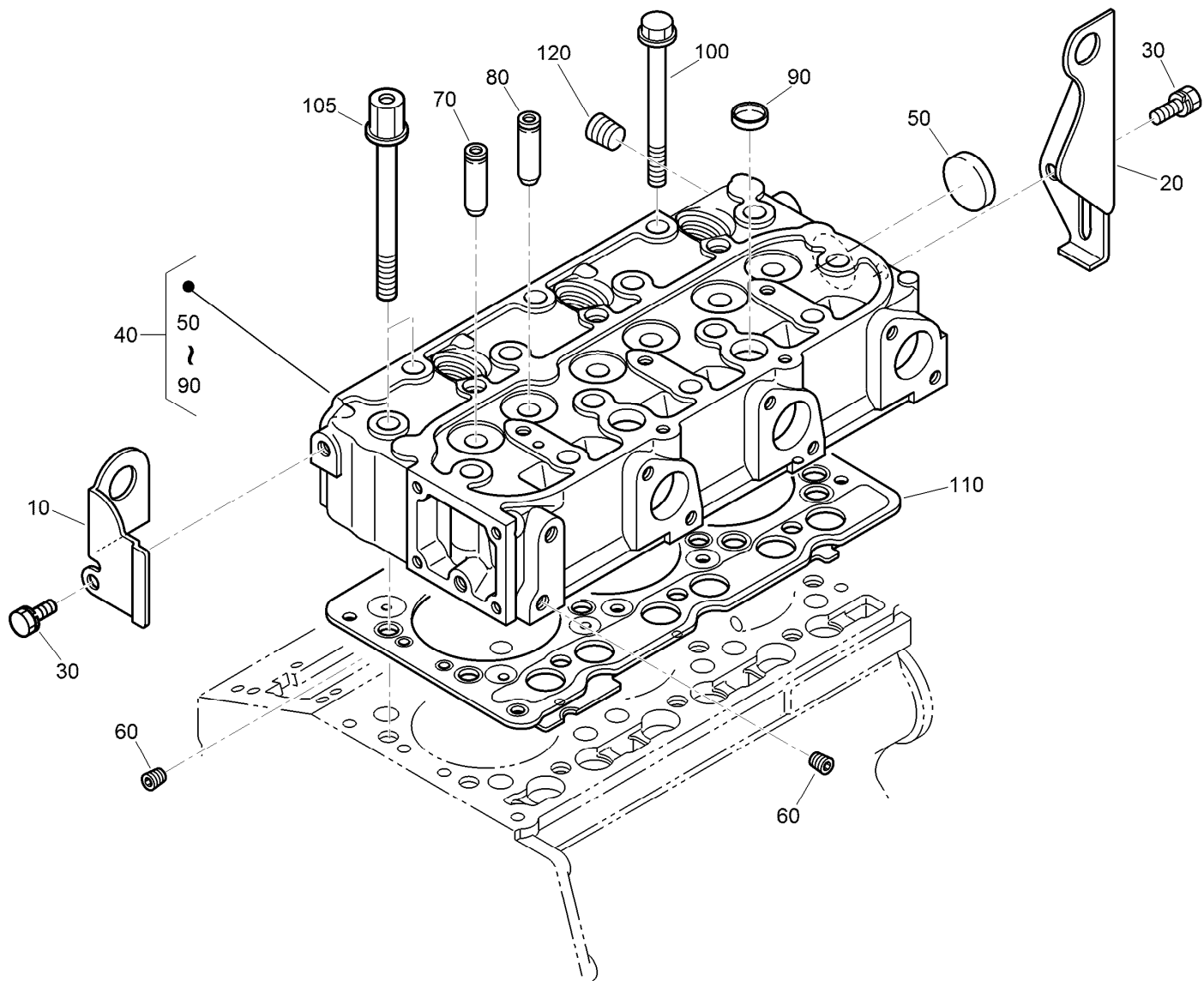
| Ref. | Part Number | Qty. | Description    |
|------|-------------|------|----------------|
| 10   | 115-3443    | 1    | Crankcase ASM  |
| 20   | 98-9398     | 4    | Cap-Sealing    |
| 30   | 98-7539     | 1    | Cap-Sealing    |
| 40   | 98-9687     | 3    | Plug           |
| 50   | 105-3779 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

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



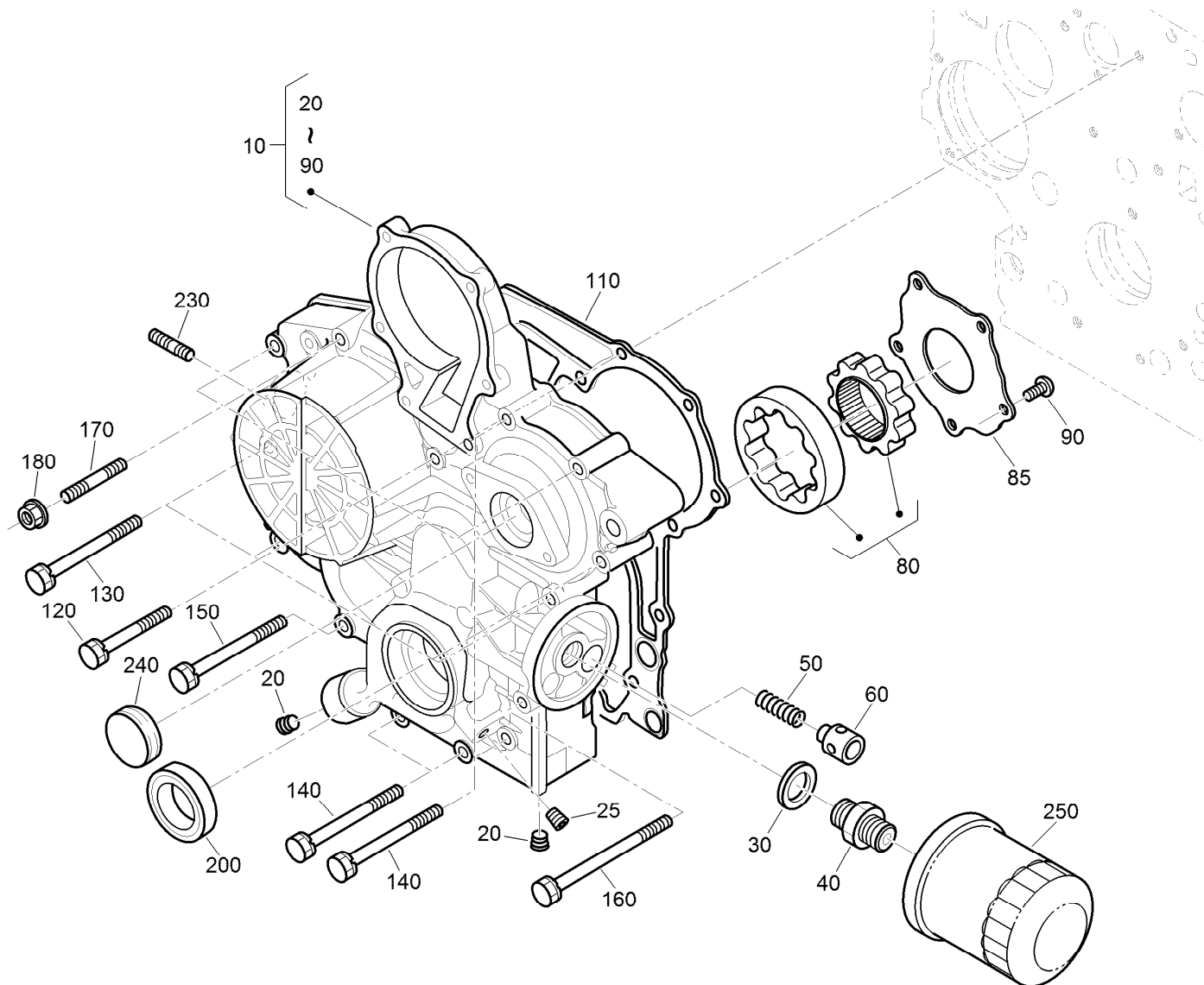
## Oil Pan and Dipstick Assembly

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



## Cylinder Head Assembly

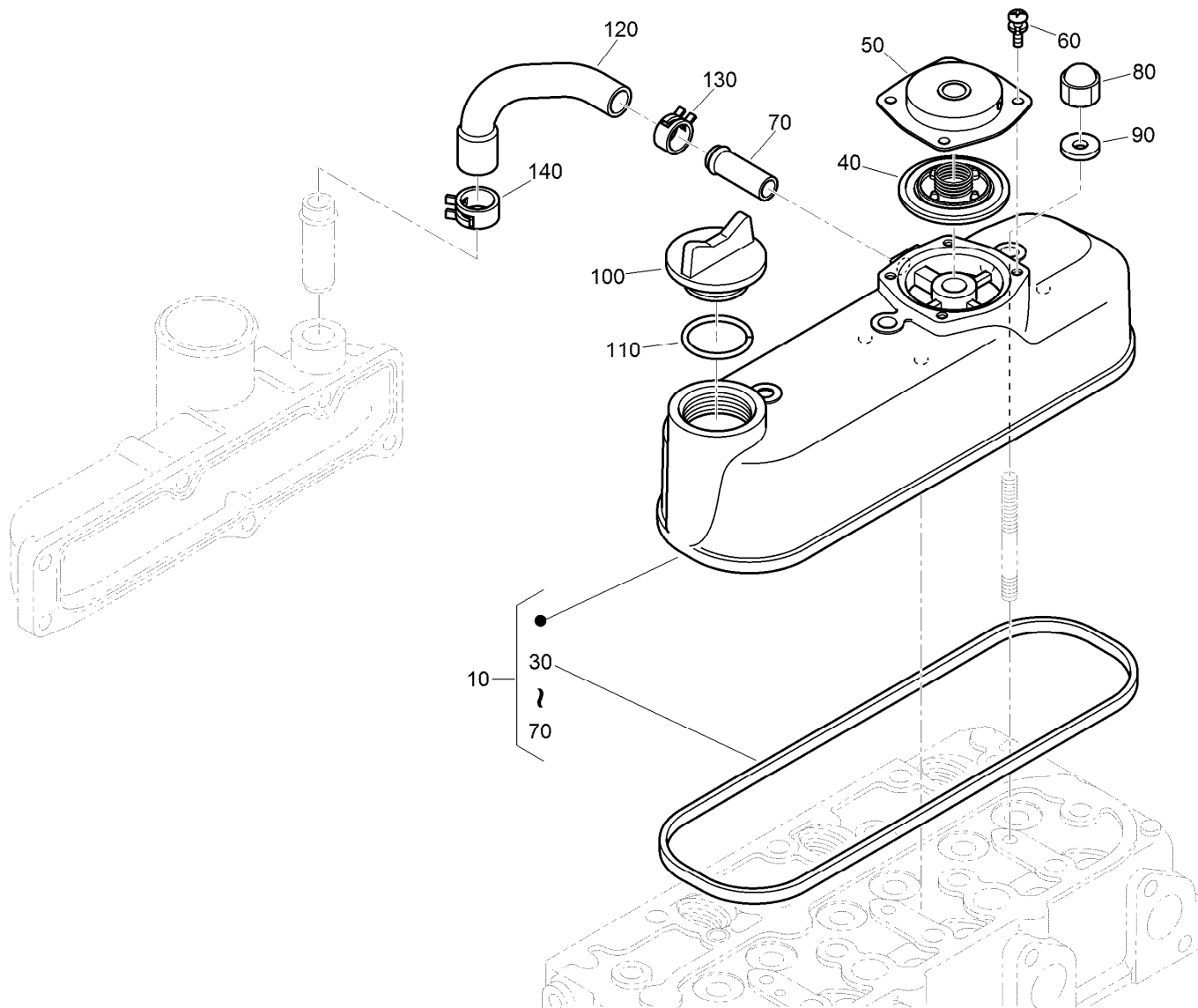
| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 10   | 130-1231    | 1    | Hook-Engine           |
| 20   | 98-9478     | 1    | Hook-Engine           |
| 30   | 100-9195    | 2    | Bolt                  |
| 40   | 130-1544    | 1    | Cylinder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



## Gear Case and Oil Filter Cartridge Assembly

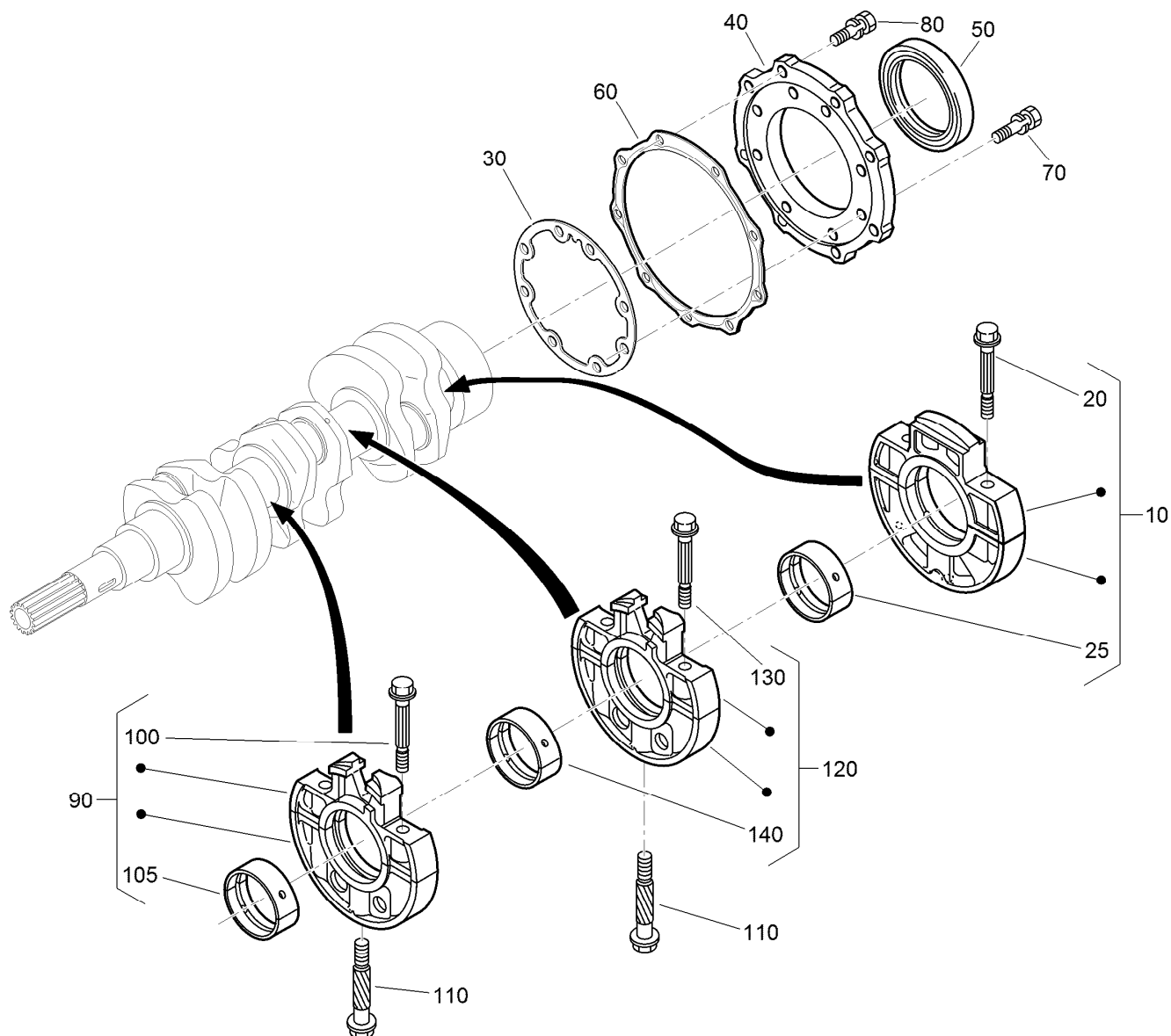
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 10   | 115-4105    | 1    | Gear Case ASM     |
| 20   | 127-0425    | 2    | Plug              |
| 25   | 98-7487     | 1    | Plug              |
| 30   | 98-7562     | 1    | Washer-Plain      |
|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

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



## Cylinder Head Cover Assembly

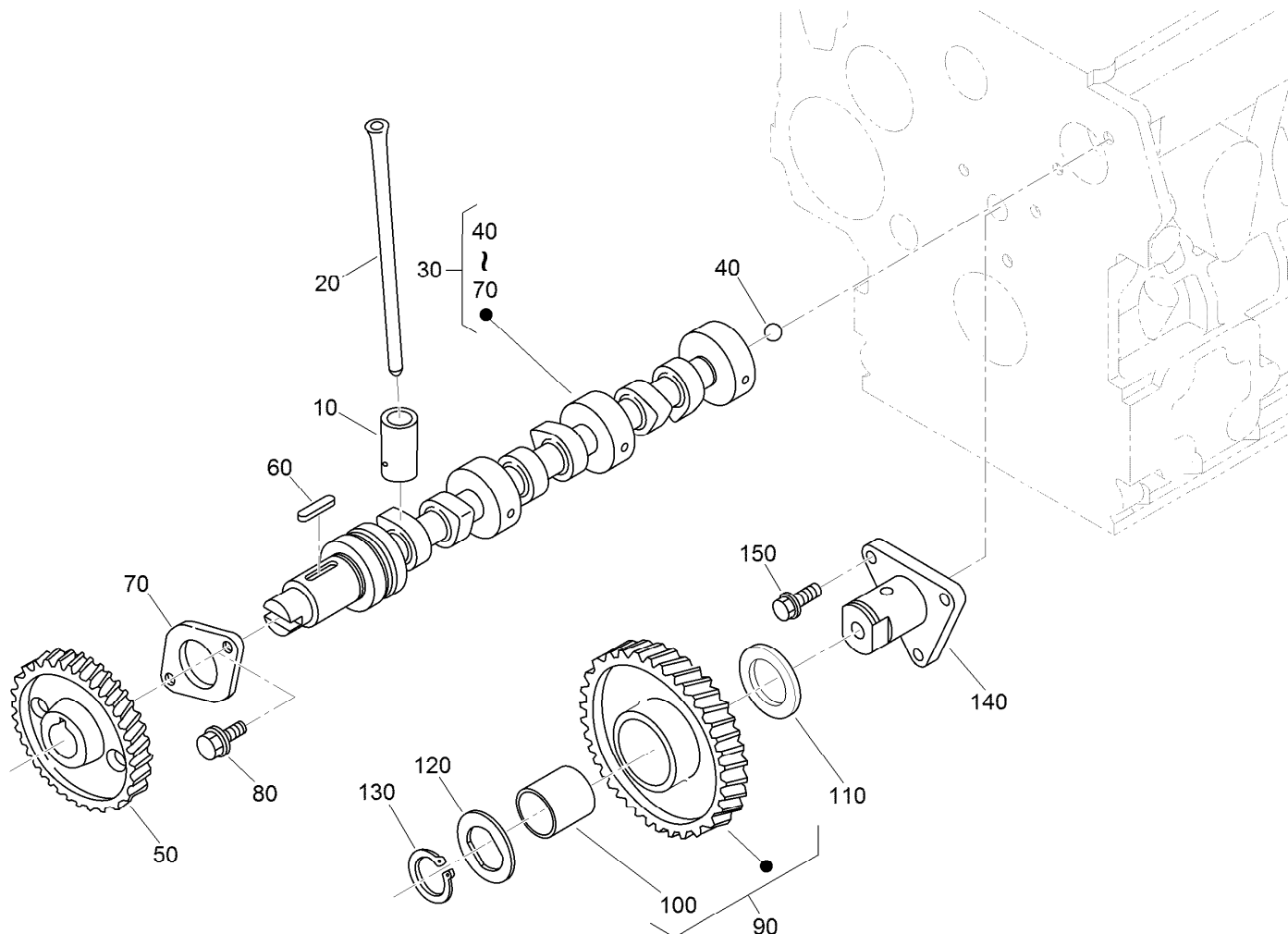
| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 10   | 139-4544    | 1    | Cylinder Cover ASM  |
| 30   | 98-9615     | 1    | Gasket-Cover, Head  |
| 40   | 110-3715    | 1    | Valve-Breather      |
| 50   | 110-3714    | 1    | Cover-Breather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



## Main Bearing Case Assembly

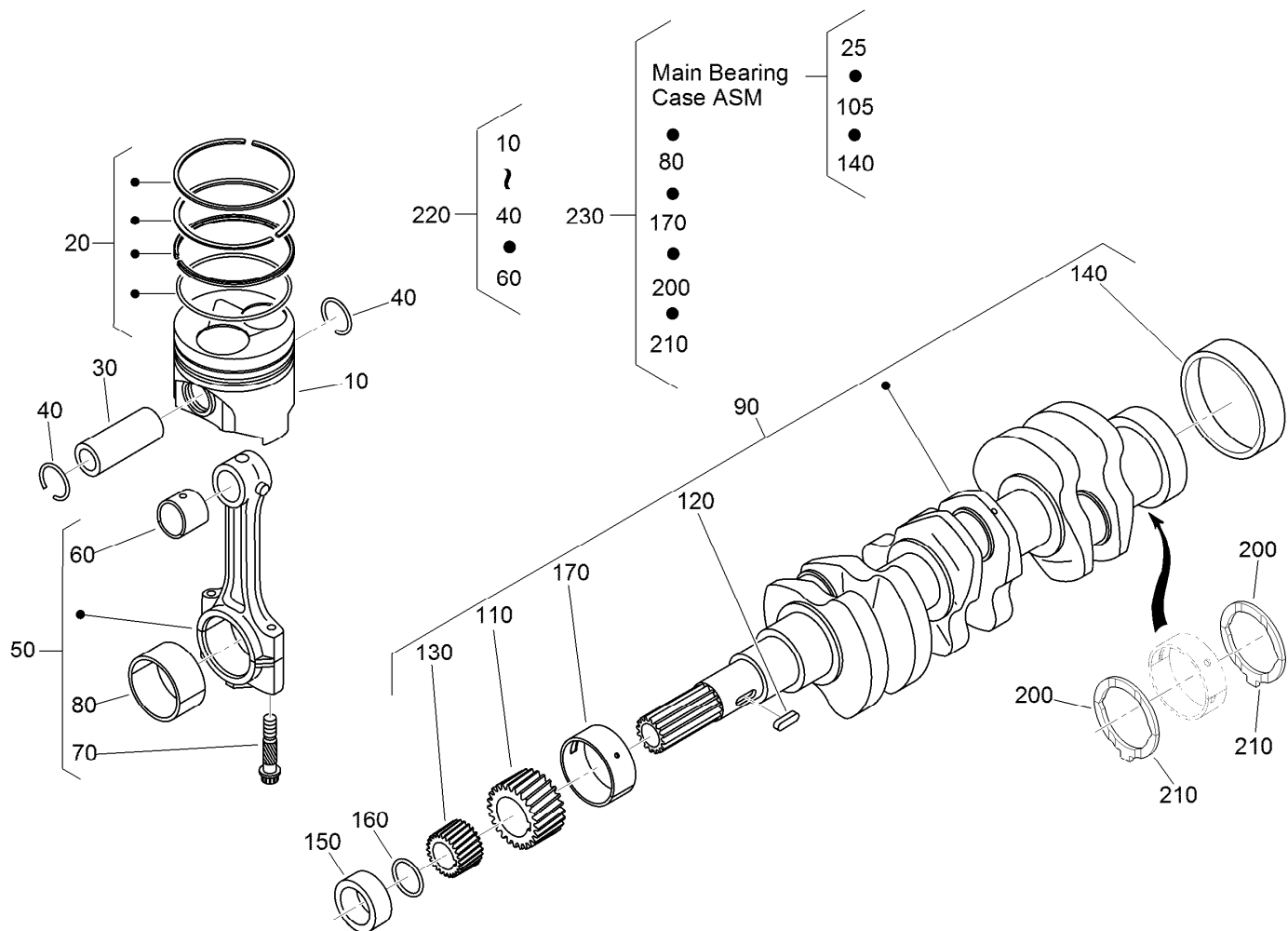
| Ref. | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 10   | 139-4546    | 1    | Bearing Case ASM          |
| 20   | 98-9484     | 2    | Bolt-Case, Bearing        |
| 25   | 115-4121    | 1    | Metal-Crankshaft (STD)    |
| 25   | 112-7039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

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



## Camshaft and Idle Gear Shaft Assembly

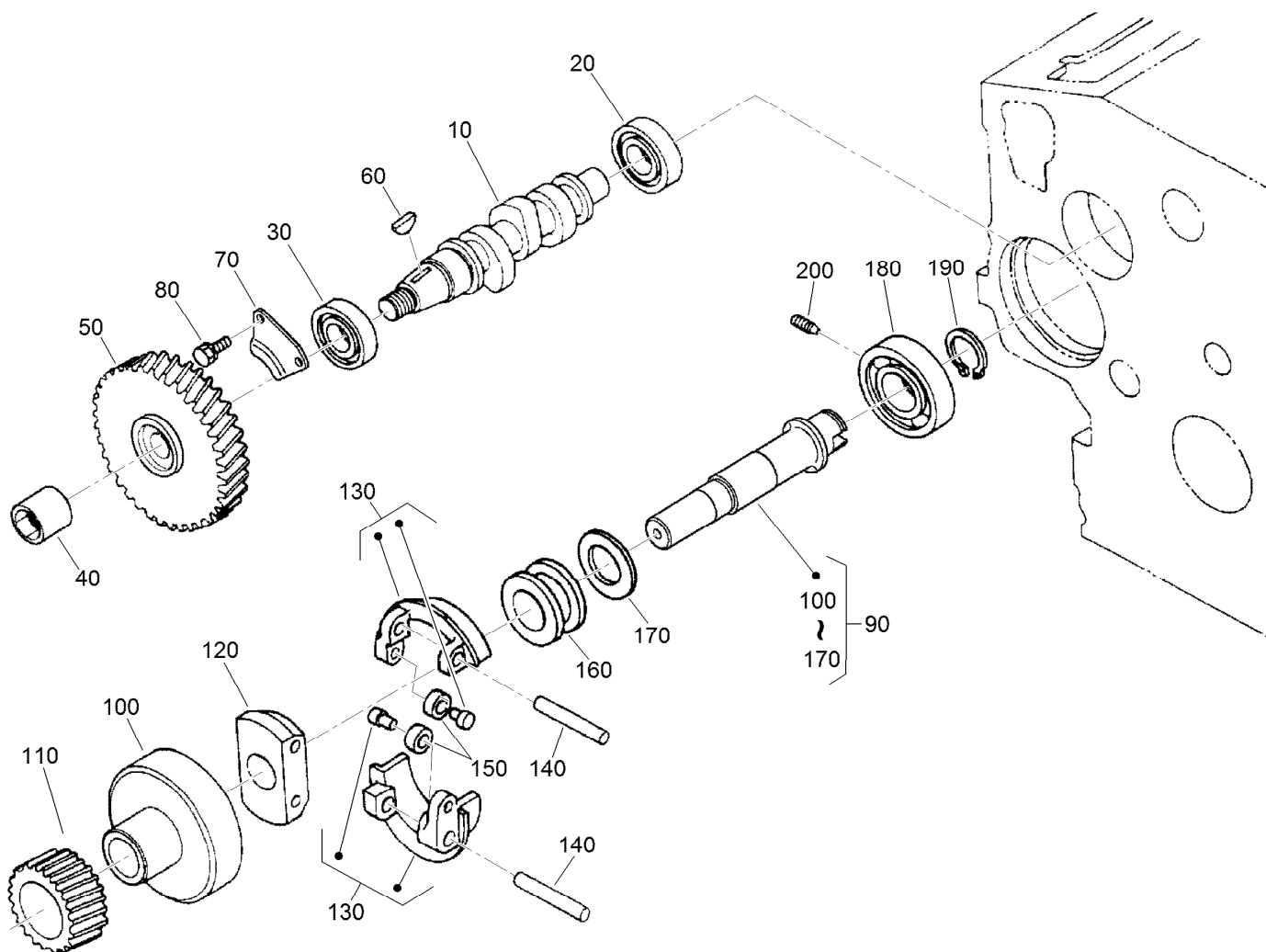
| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 10   | 112-0185    | 6    | Tappet             |
| 20   | 127-0421    | 6    | Rod-Push           |
| 30   | 130-1545    | 1    | Camshaft ASM       |
| 40   | 110-3729    | 1    | Ball           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



## Piston and Crankshaft Assembly

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

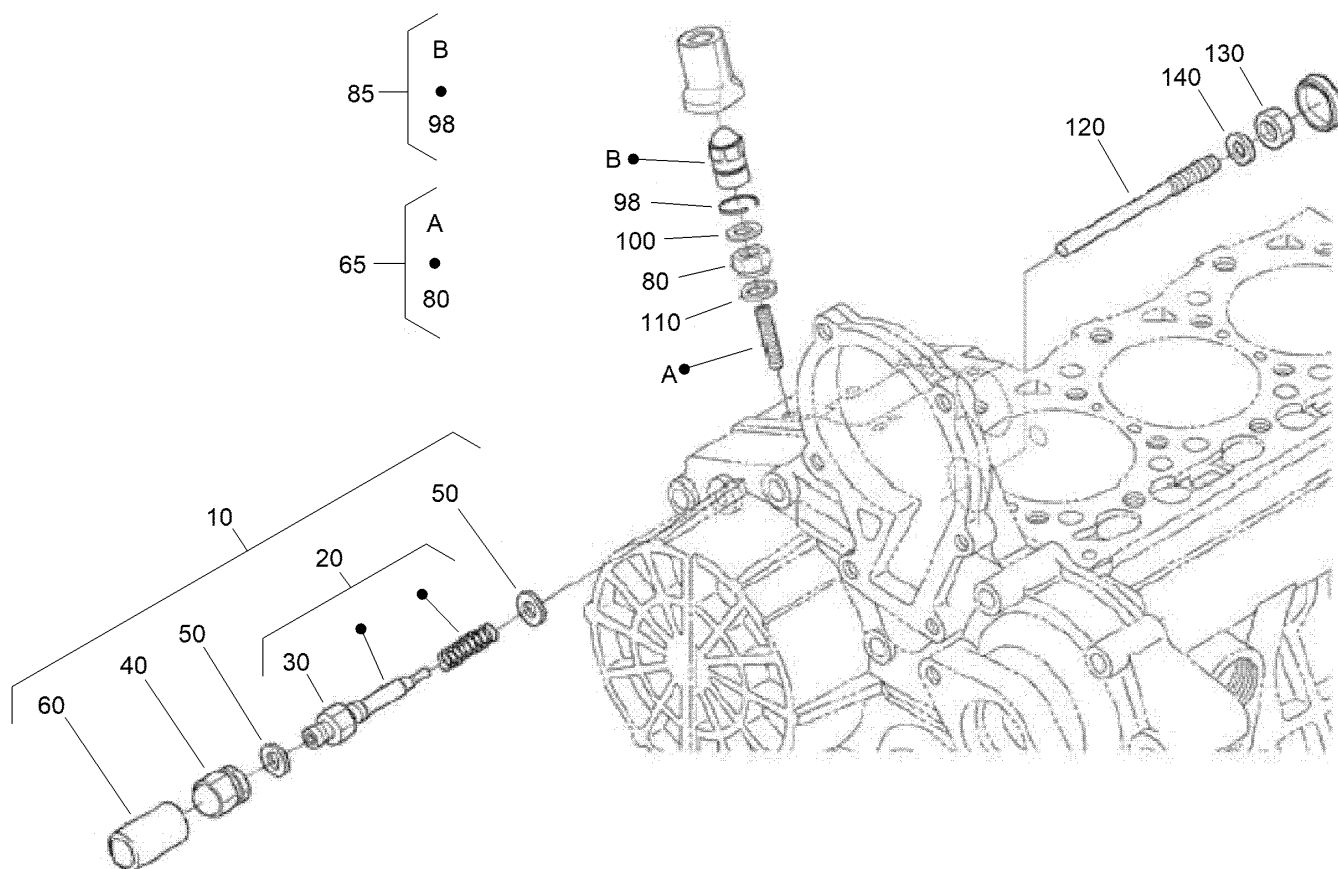
| Ref. | Part Number | Qty. | Description                        |
|------|-------------|------|------------------------------------|
| 160  | 105-3783    | 1    | O-Ring                             |
| 170  | 112-7005    | 1    | Bearing-Main (STD)                 |
| 170  | 98-9528     | 1    | Bearing-Main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



## Fuel Camshaft and Governor Shaft Assembly

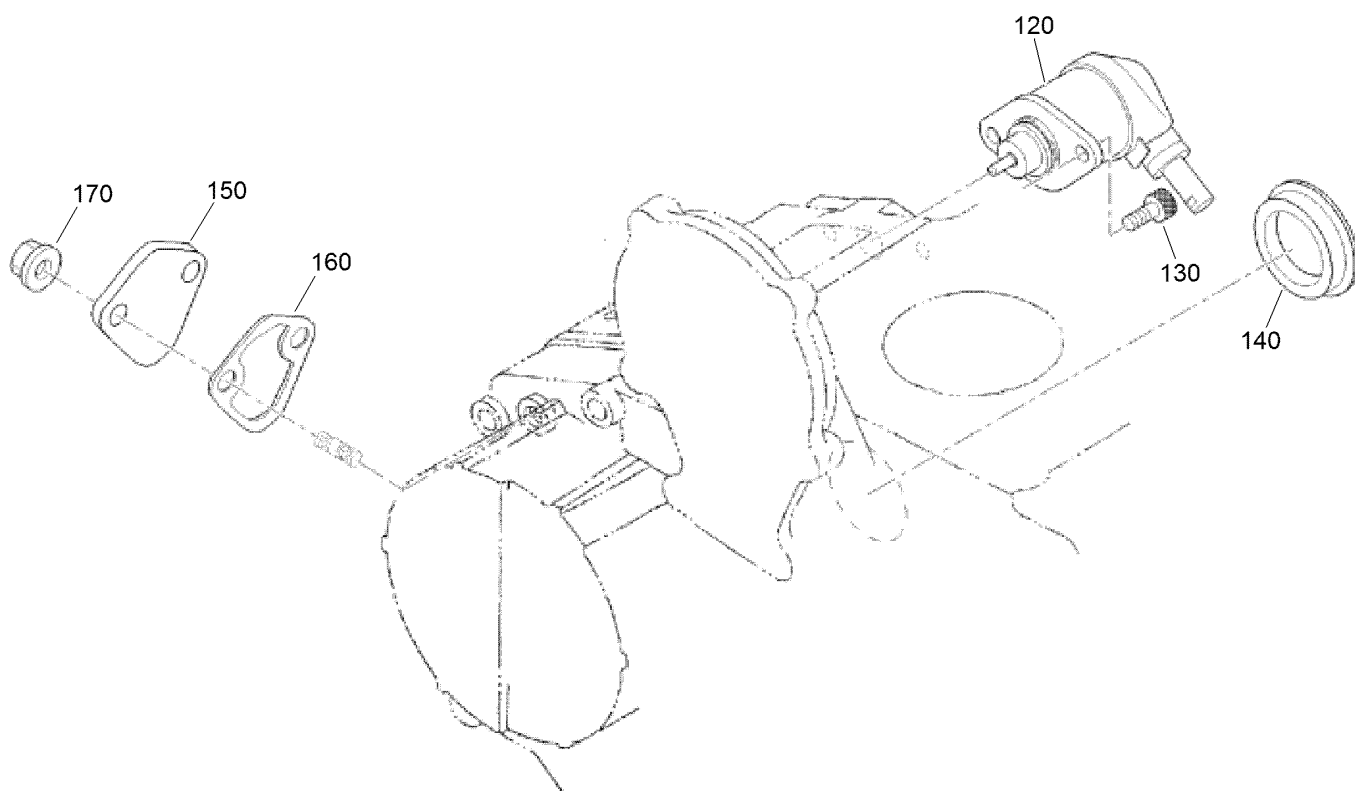
| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 10   | 139-4547    | 1    | Camshaft-Fuel          |
| 20   | 107-9077    | 1    | Bearing-Ball           |
| 30   | 107-9078    | 1    | Bearing-Ball           |
| 40   | 130-1512    | 1 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

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



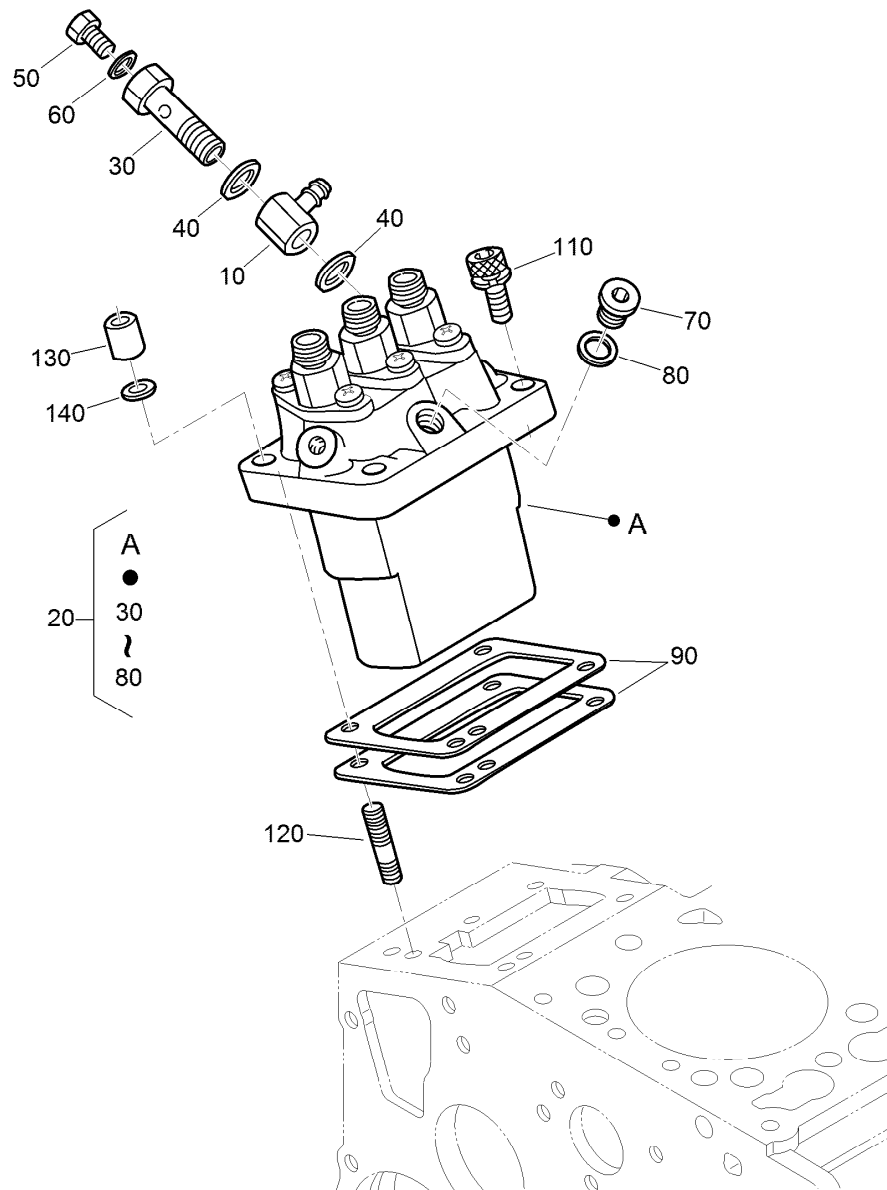
## Idle Apparatus and Stop Solenoid Assembly

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



## Solenoid Assembly

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

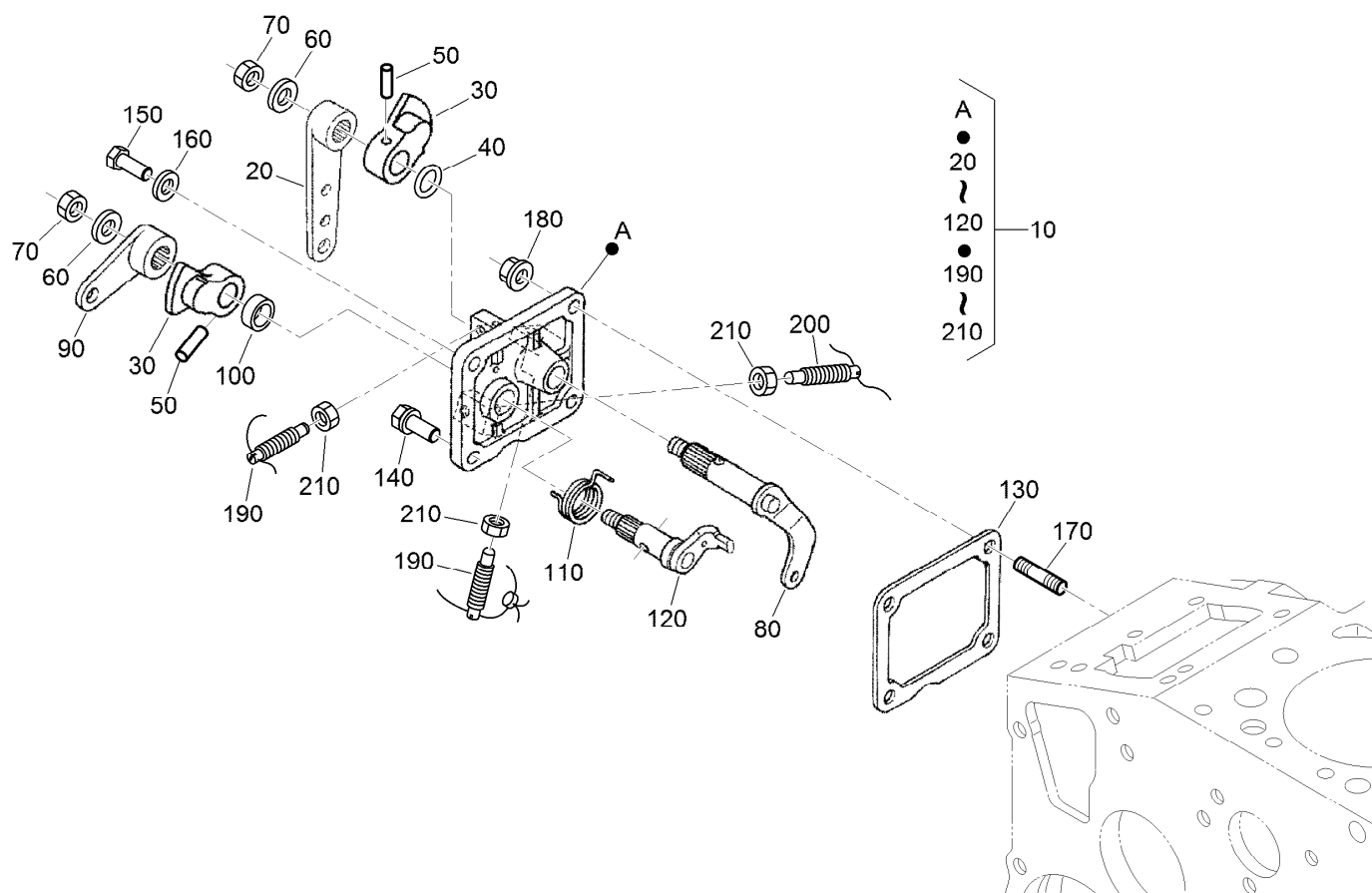


## Injection Pump Assembly

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

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

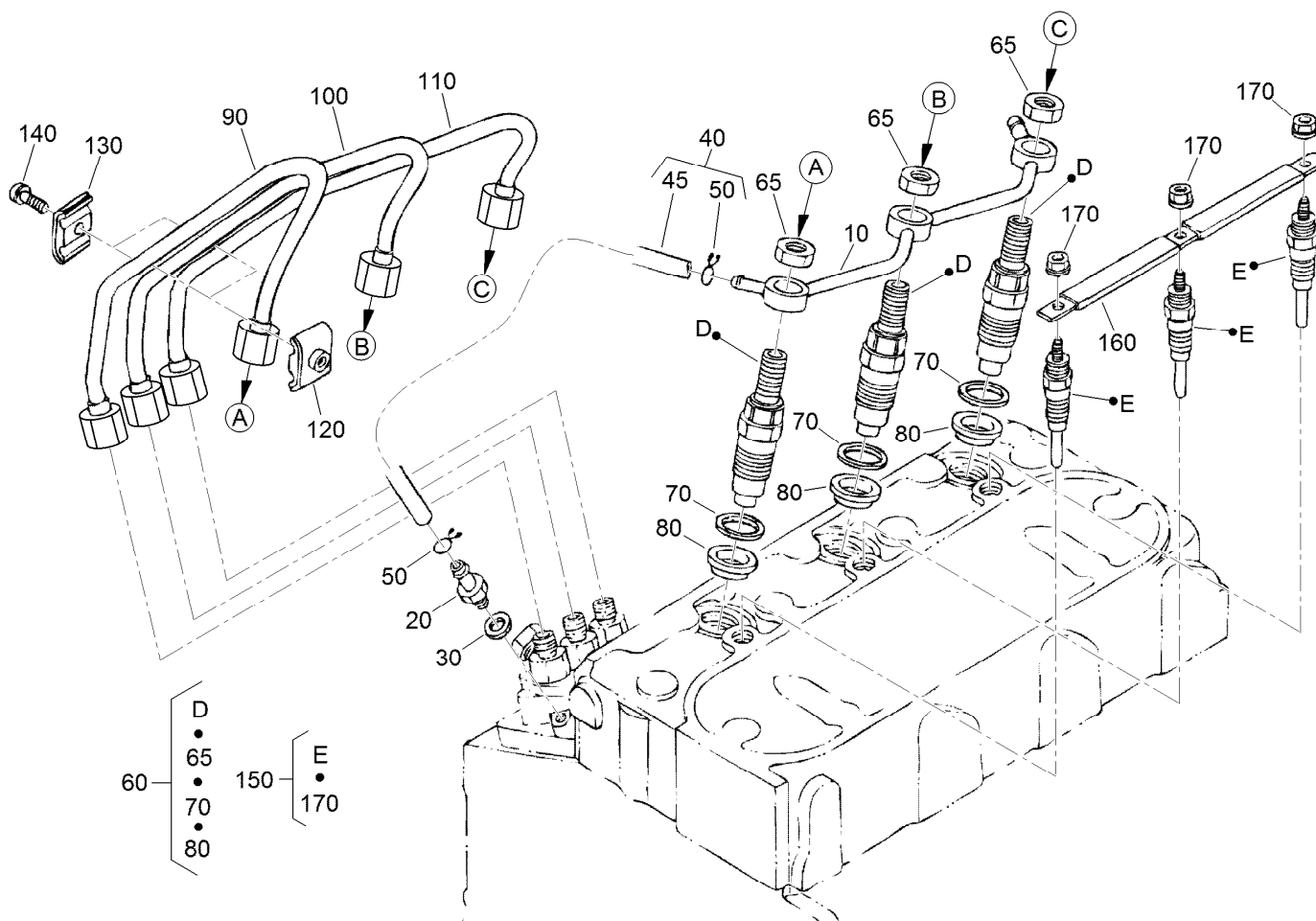




## Speed Control Plate Assembly

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

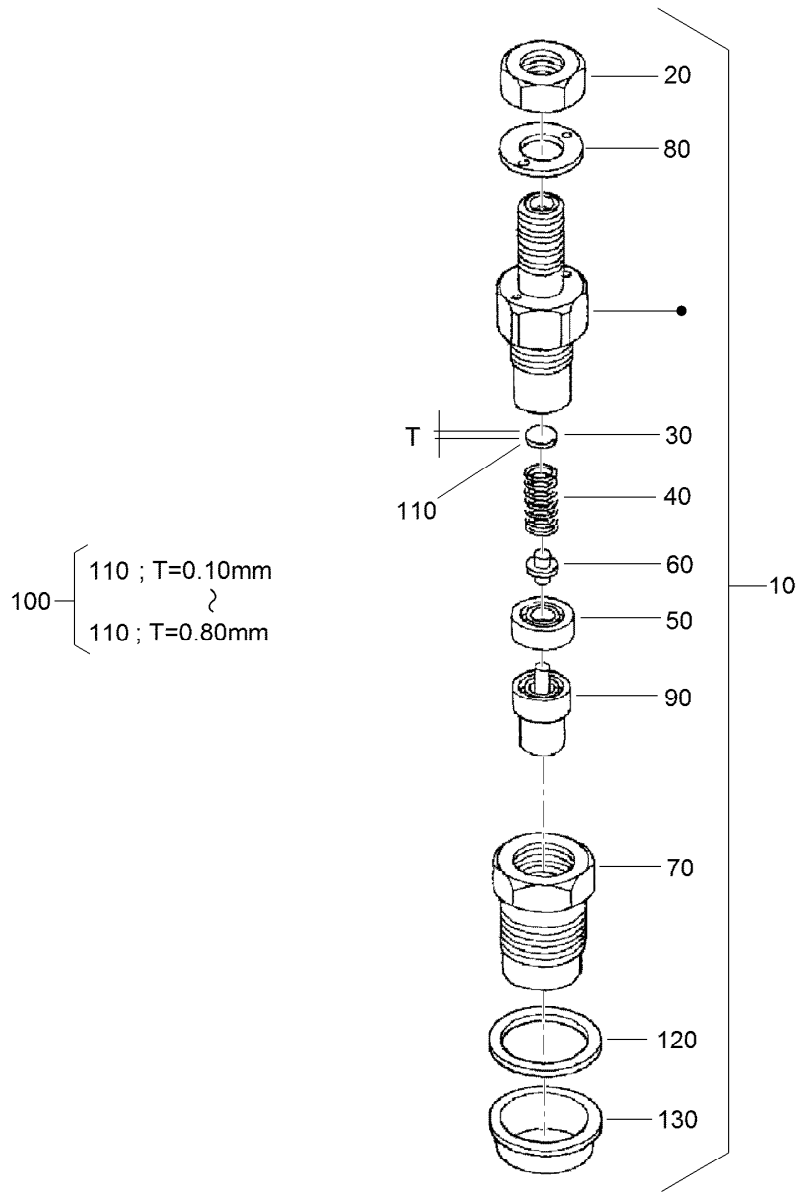
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 120  | 98-9664     | 1    | Shaft-Lever, Stop |
| 130  | 98-9637     | 1    | Gasket            |
| 140  | 98-7692     | 1    | Bolt              |
| 150  | 127-0401    | 1    | Bolt-Hex          |
|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



## Nozzle Holder and Glow Plug Assembly

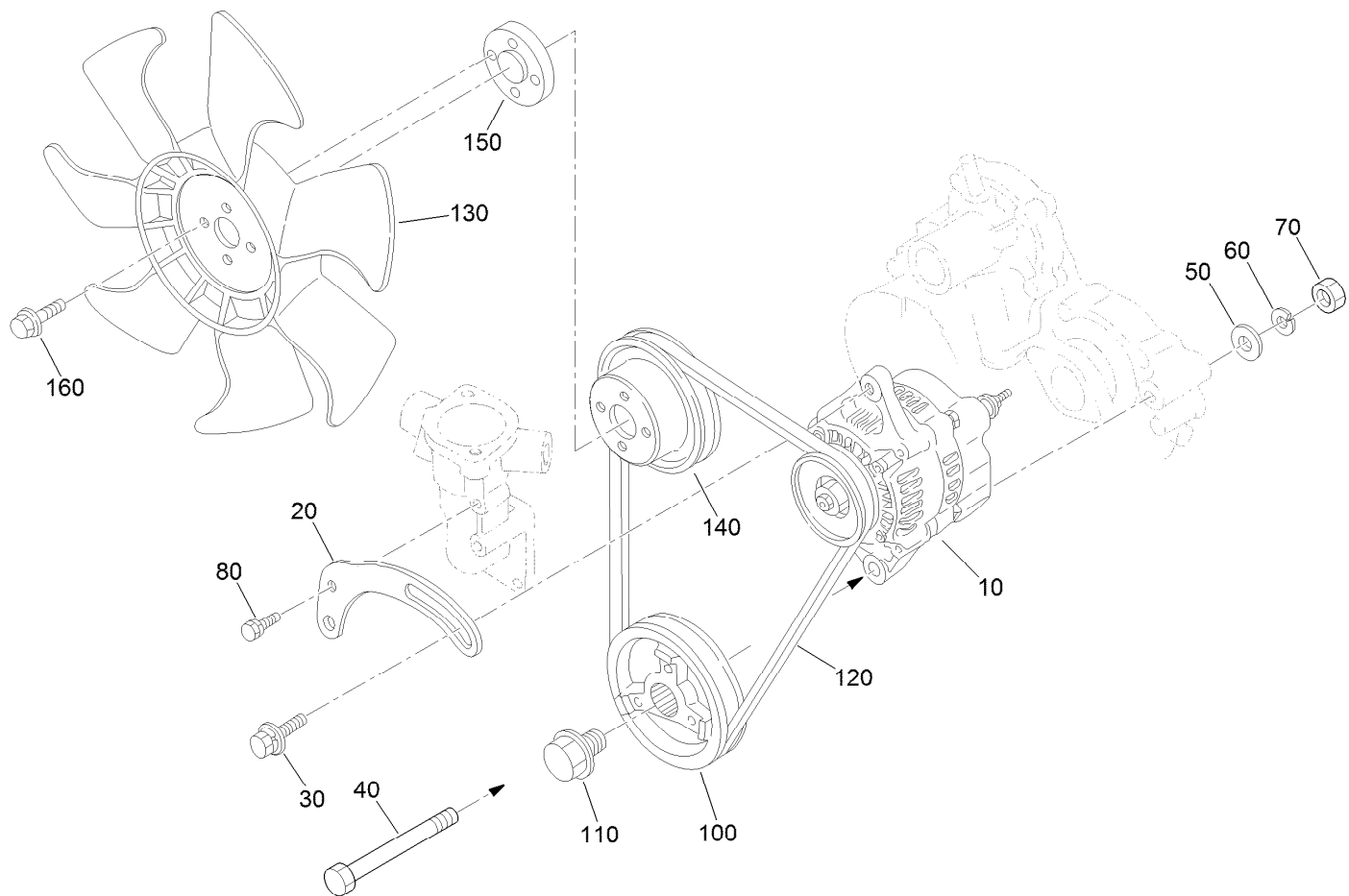
| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 10   | 98-9620     | 1    | Overflow Pipe ASM  |
| 20   | 98-9431     | 1    | Screw-Bleeder, Air |
| 30   | 98-7654     | 1    | Gasket             |
| 40   | 140-2456    | 1    | Overflow Pipe ASM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

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



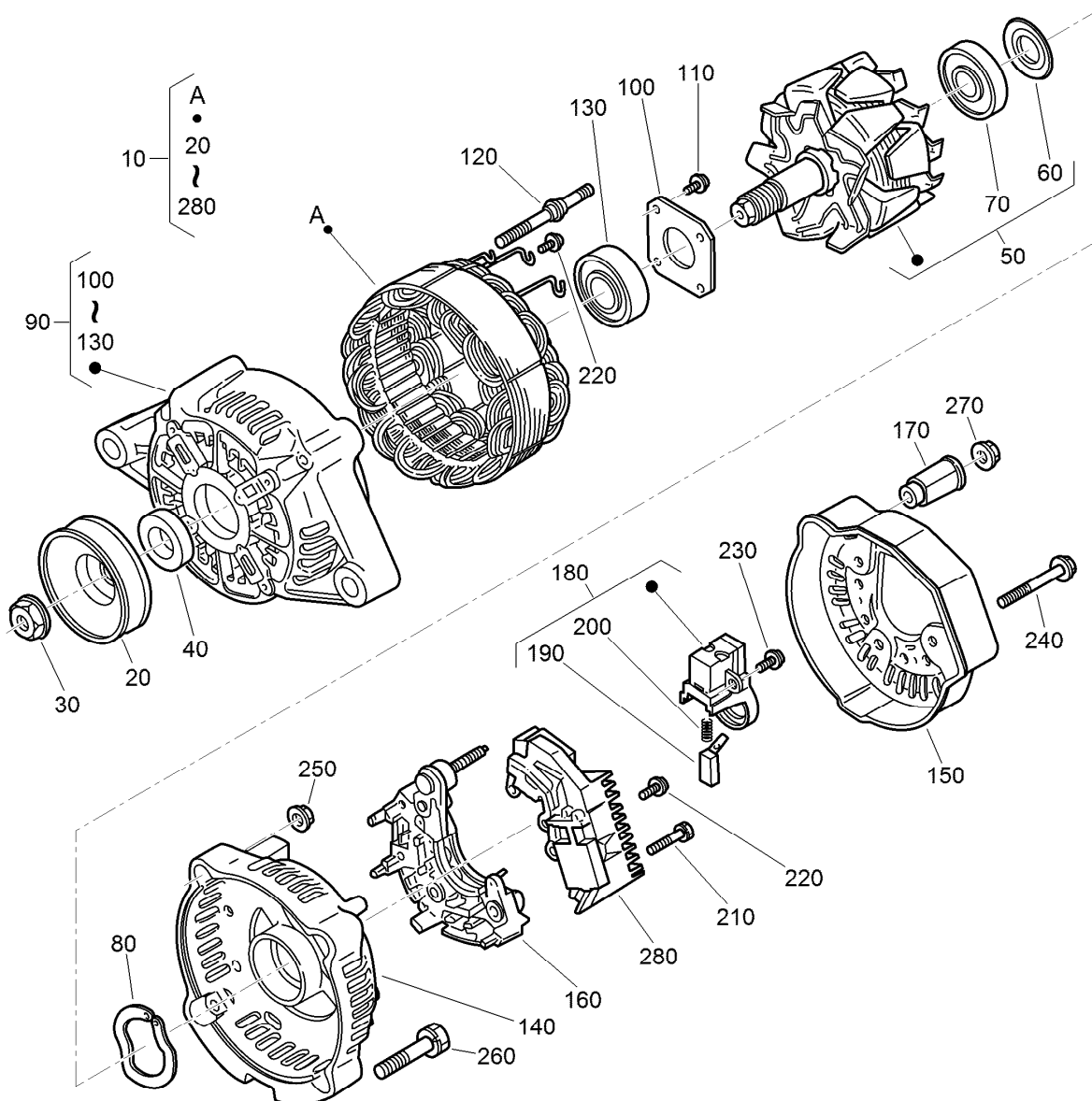
## Nozzle Holder Assembly

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



## Alternator, Pulley and Fan Assembly

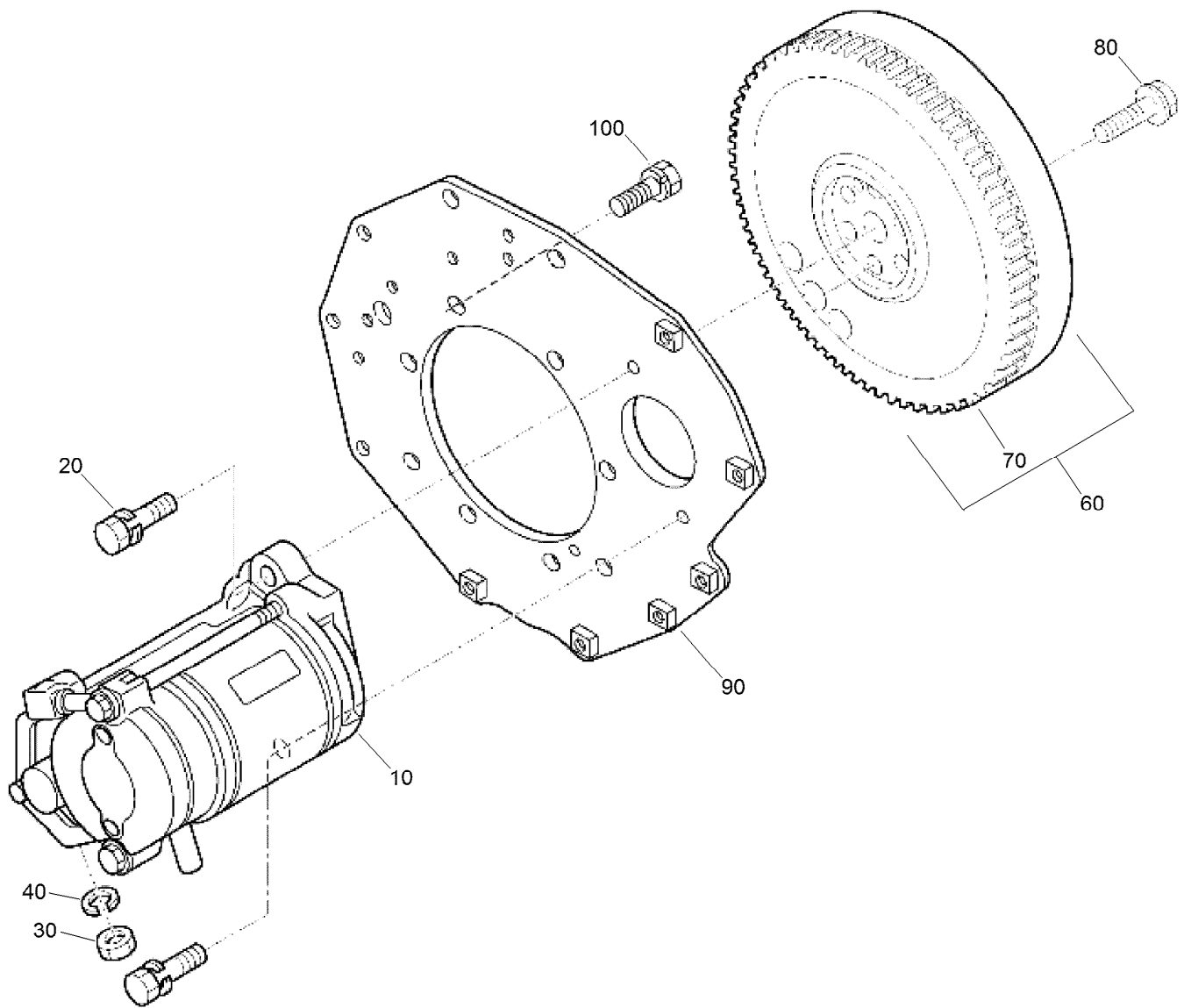
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 10   | 131-6557    | 1    | Alternator ASM    |
| 20   | 112-7047    | 1    | Stay-Dynamo       |
| 30   | 108-7088    | 1    | Bolt              |
| 40   | 98-9360     | 1    | Bolt              |
|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



## Alternator Components Assembly

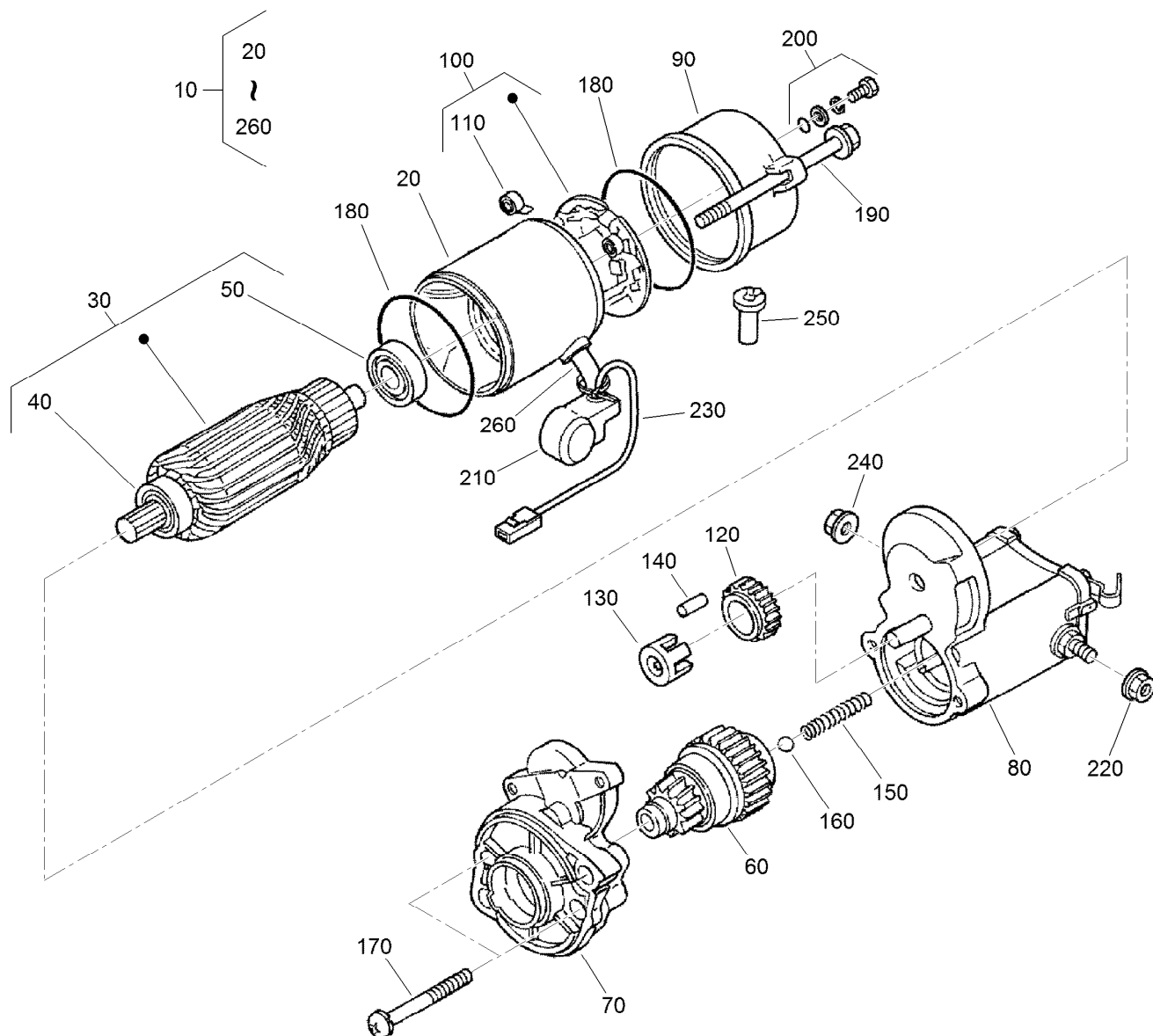
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 10   | 131-6557    | 1    | Alternator ASM    |
| 20   | 98-9453     | 1    | Pulley-Dynamo     |
| 30   | 98-7708     | 1    | Nut               |
| 40   | 98-7709     | 1    | Collar            |
| 50   | 107-0136    | 1    | Rotor ASM         |
| 60   | 98-7711     | 1    | Cover-Bearing     |
| 70   | 107-0138    | 1    | Bearing-Ball      |
| 80   | 98-7713     | 1    | Washer-Thrust     |
| 90   | 131-6559    | 1    | Frame-End, Drive  |
| 100  | 98-7715     | 1    | Plate-Retainer    |
| 110  | 98-7716     | 4    | Screw-Head, Round |
| 120  | 98-7717     | 2    | Bolt-Through      |
| 130  | 133-2811    | 1    | Bearing           |
| 140  | 107-9087    | 1    | Frame-End         |

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 150  | 107-0140    | 1    | Cover-End          |
| 160  | 127-1612    | 1    | Rectifier ASM      |
| 170  | 98-7722     | 1    | Bushing-Insulation |
| 180  | 107-0141    | 1    | Brush Holder ASM   |
| 190  | 98-7724     | 2    | Brush              |
| 200  | 98-7725     | 2    | Spring-Brush       |
| 210  | 98-7726     | 2    | Screw-Head, Round  |
| 220  | 98-7727     | 6    | Screw-Head, Round  |
| 230  | 98-7728     | 1    | Screw-Head, Round  |
| 240  | 98-7729     | 3    | Bolt               |
| 250  | 98-7730     | 2    | Nut                |
| 260  | 98-7731     | 2    | Bolt               |
| 270  | 98-7732     | 1    | Nut                |
| 280  | 140-2458    | 1    | Regulator ASM      |



## Starter and Flywheel Assembly

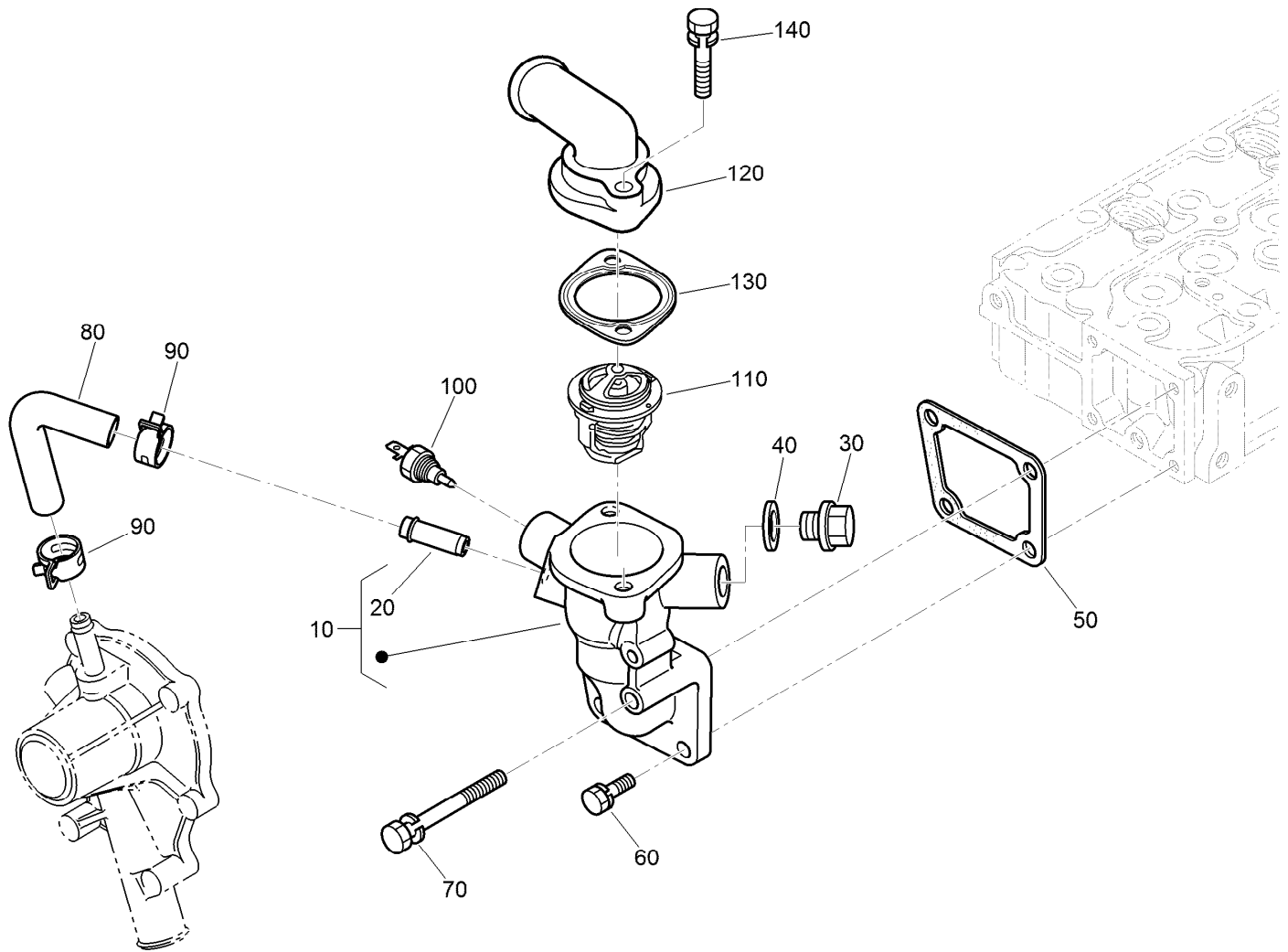
| Ref. | Part Number | Qty. | Description     |
|------|-------------|------|-----------------|
| 10   | 98-9705     | 1    | Starter ASM     |
| 20   | 98-7697     | 2    | Bolt            |
| 30   | 98-7534     | 1    | Nut             |
| 40   | 105-2893    | 1    | Washer-Spring   |
| 60   | 105-3784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



## Starter Component Assembly

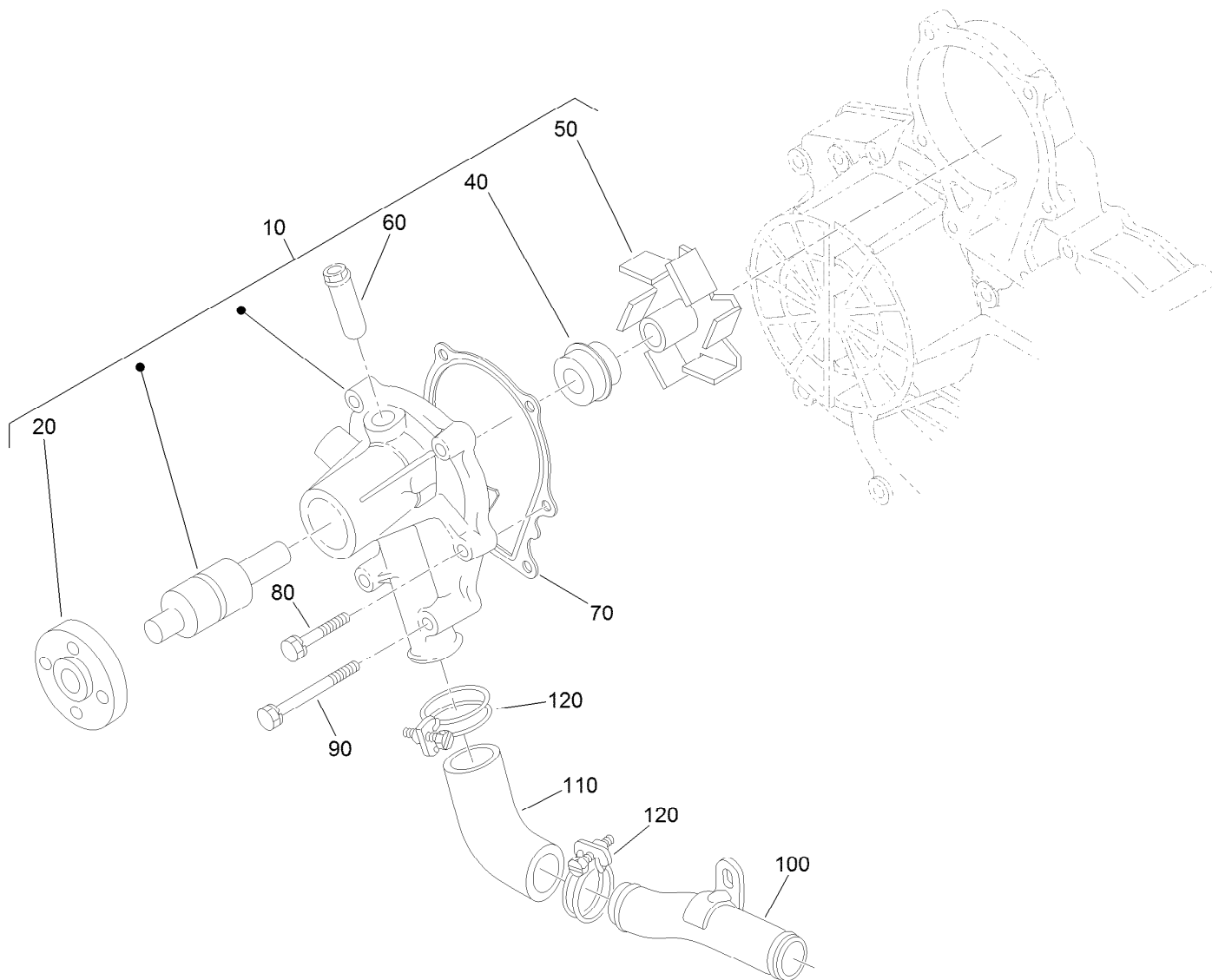
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 98-9705     | 1    | Starter ASM          |
| 20   | 104-8608    | 1    | Yoke ASM             |
| 30   | 98-7742     | 1    | Armature ASM         |
| 40   | 98-7744     | 1    | Bearing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

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



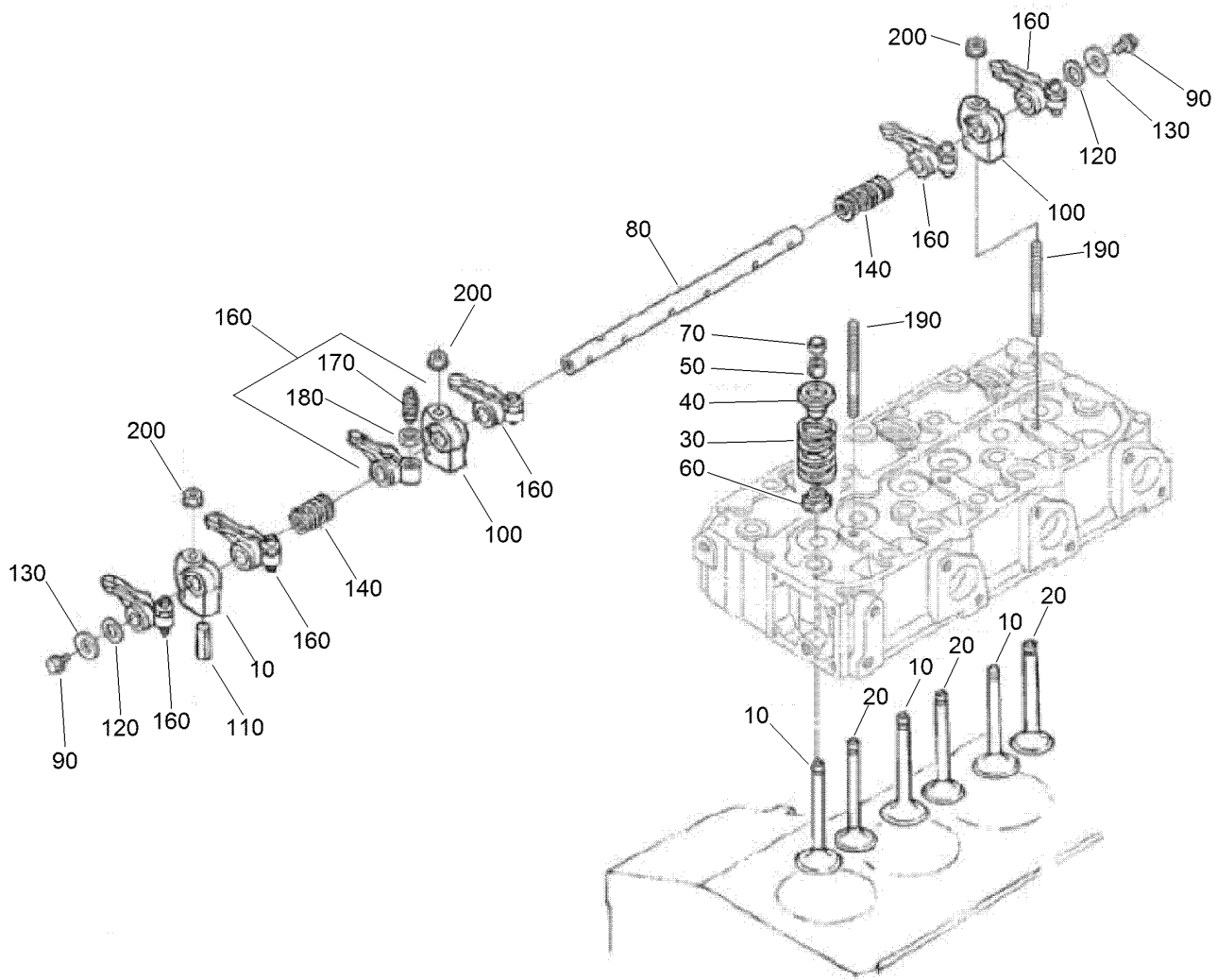
## Water Flange and Thermostat Assembly

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



## Water Pump Assembly

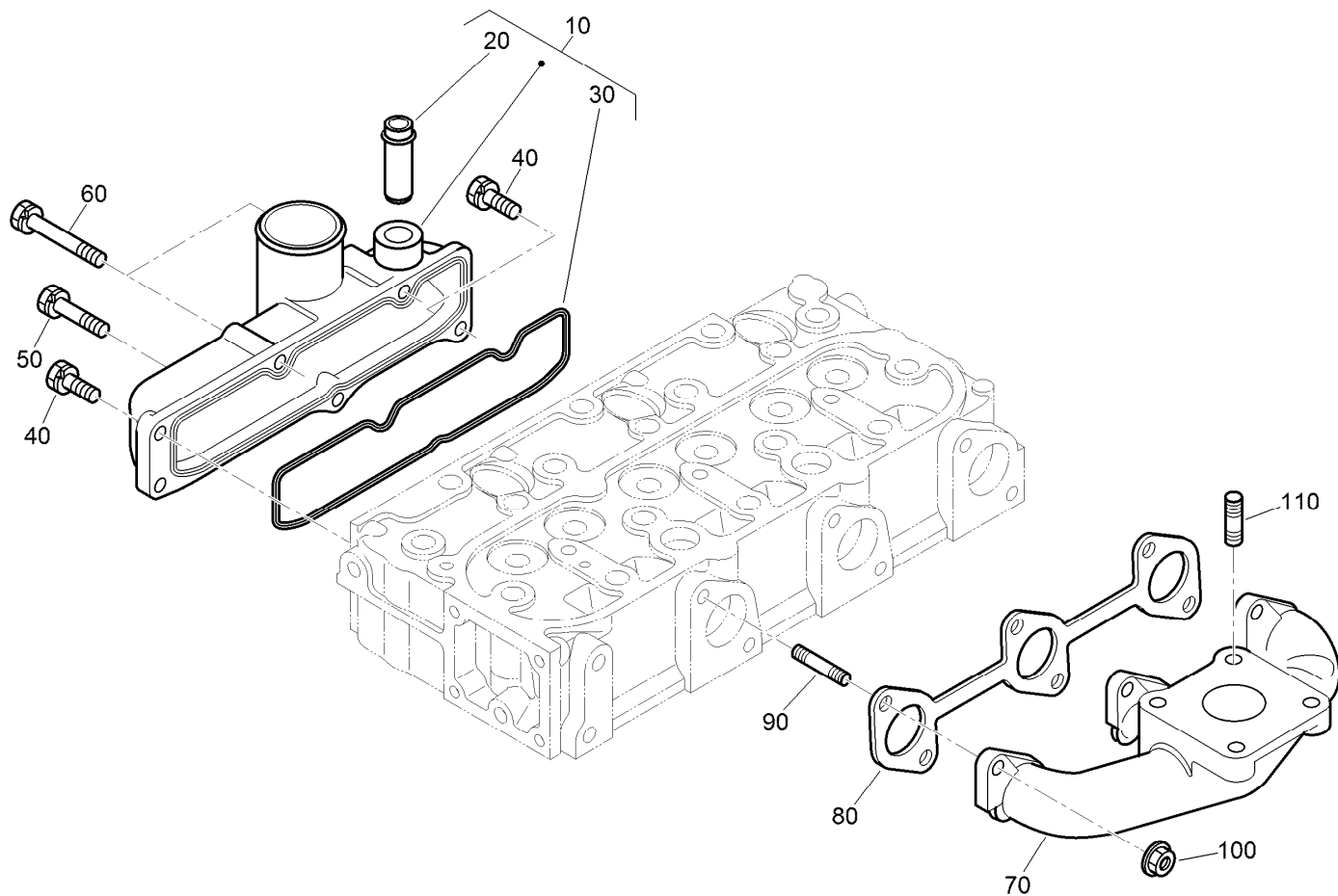
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 107-9089    | 1    | Water Pump ASM       |
| 20   | 99-3516     | 1    | Flange-Pump, Water   |
| 40   | 105-3750    | 1    | Mechanical Seal ASM  |
| 50   | 112-7017    | 1    | Impeller-Pump,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



## Valve and Rocker Arm Assembly

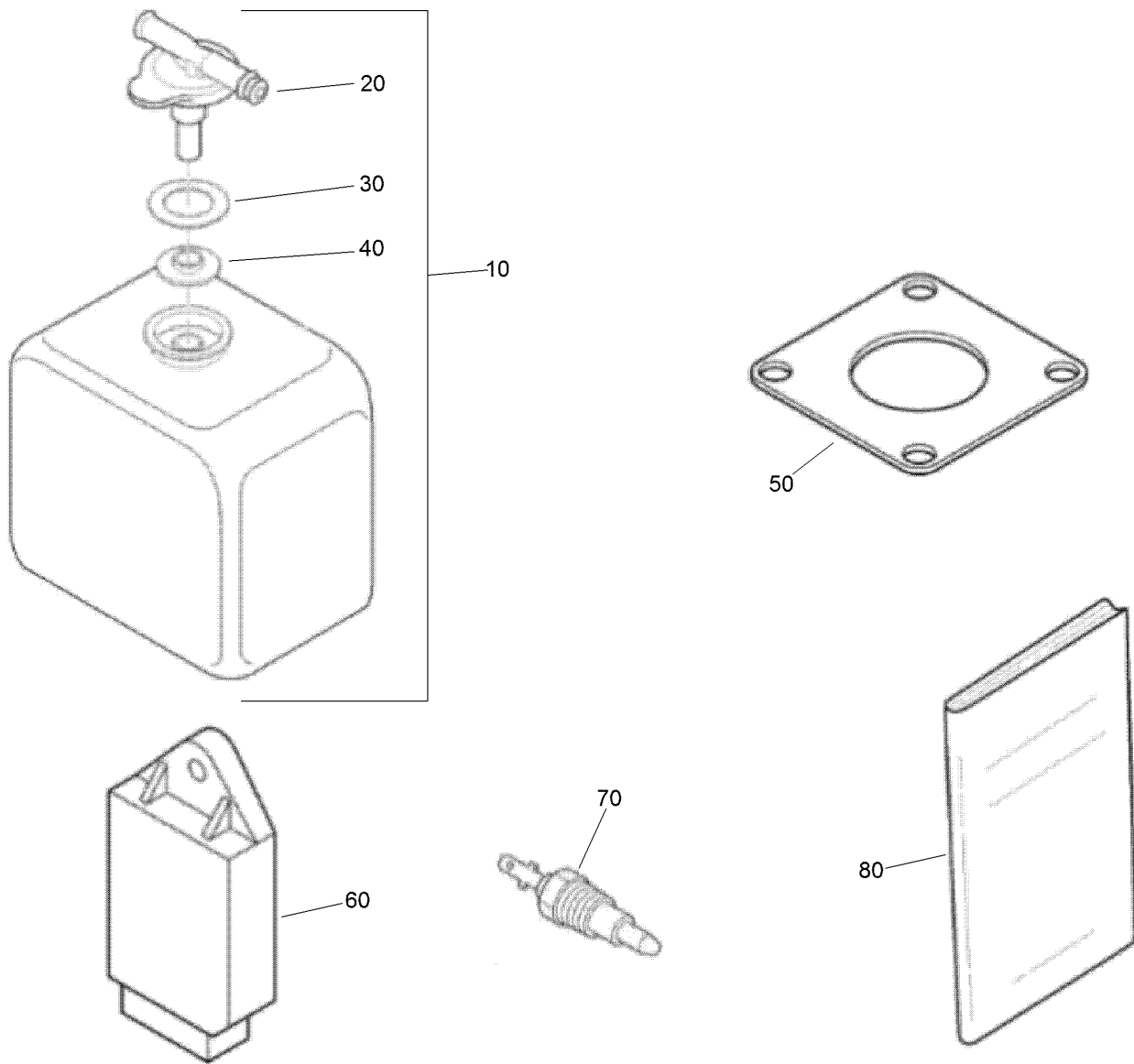
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 140-2459    | 3    | Valve-Inlet          |
| 20   | 140-2460    | 3    | Valve-Exhaust        |
| 30   | 98-9648     | 6    | Spring-Valve         |
| 40   | 107-9092    | 6    | Retainer-Spring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

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



## Inlet and Exhaust Manifold Assembly

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



## Miscellaneous Engine Parts

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

# Attachments and Accessories

## For 30849 Groundsmaster 3505-D Rotary Mower

| Product Name                                                 | Model/Part  |
|--------------------------------------------------------------|-------------|
| Roller Scraper Kit.....                                      | 104-5168    |
| Blade-High Lift .....                                        | 104-5183    |
| Blade-Angle Sail .....                                       | 105-9810-03 |
| Blade-Atomic .....                                           | 107-0235-03 |
| 27in Blade Service Pack (qty 6) .....                        | 108-1462    |
| Blade-27in Combo .....                                       | 108-9026    |
| LH Short Liftarm Assembly .....                              | 115-3465    |
| RH Short Liftarm Assembly.....                               | 115-3466    |
| Wireless Hourmeter .....                                     | 115-4754    |
| External Antenna Kit, Wireless Hourmeter System .....        | 115-9524    |
| Base Station Kit, Wireless Hourmeter System .....            | 115-9542    |
| Repeater Kit, Wireless Hourmeter System .....                | 115-9543    |
| Large Seat Cover.....                                        | 120-5179    |
| Roller Asm (UHMW) .....                                      | 131-7800    |
| Hi-Back Seat Cover .....                                     | 133-1308    |
| PX Hydraulic Fluid (5 Gal) .....                             | 133-8086    |
| PX Hydraulic Fluid (55 Gal).....                             | 133-8087    |
| Ballast Kit (27in C/U) .....                                 | 136-2881    |
| Wheel Weight Kit .....                                       | 136-3315    |
| 3in Dia, 27in Sectional Roller Assembly.....                 | 137-6145    |
| Bimini Sunshade for 2-Post Roll-Over Protection System ..... | 30358       |
| Premium Seat Kit.....                                        | 30629       |
| White Universal Sunshade .....                               | 30669       |
| Red Universal Sunshade .....                                 | 30671       |
| 27in Rotary Cutting Unit.....                                | 30834       |
| Leaf Mulching Kit .....                                      | 30836       |
| Work Light Kit .....                                         | 30841       |
| LED Light Kit.....                                           | 31696       |
| New Red Paint - Gallon .....                                 | 361-11      |
| Dark Metallic Gray Aerosol Paint .....                       | 361-12      |
| Semi-Gloss Black Spray Paint.....                            | 361-9       |
| 1000 Hour MVP Kit .....                                      | 44963       |
| Air Dry Red Paint - Qt .....                                 | 5340        |

**Notes:**

**Notes:**



**Count on it.**