



Form No. 3445-745 Rev A

**Count on it.**

# Parts Catalog

## Groundsmaster® 7210 Series Traction Unit

Model No. 30487TC—Serial No. 408000000 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.

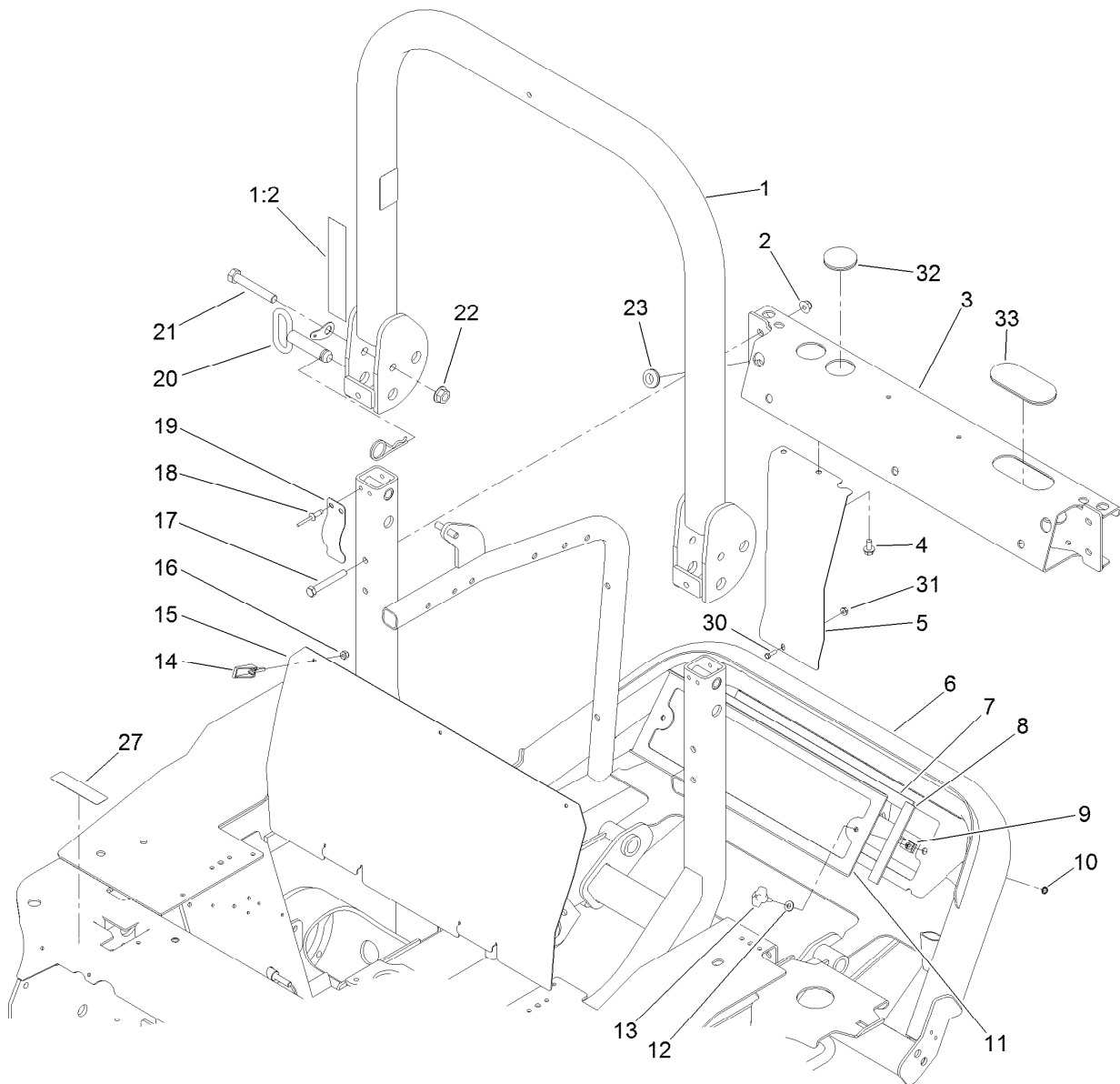
For example, in an illustration, the reference number 2X 37 means that two of the parts identified by reference number 37 are indicated.

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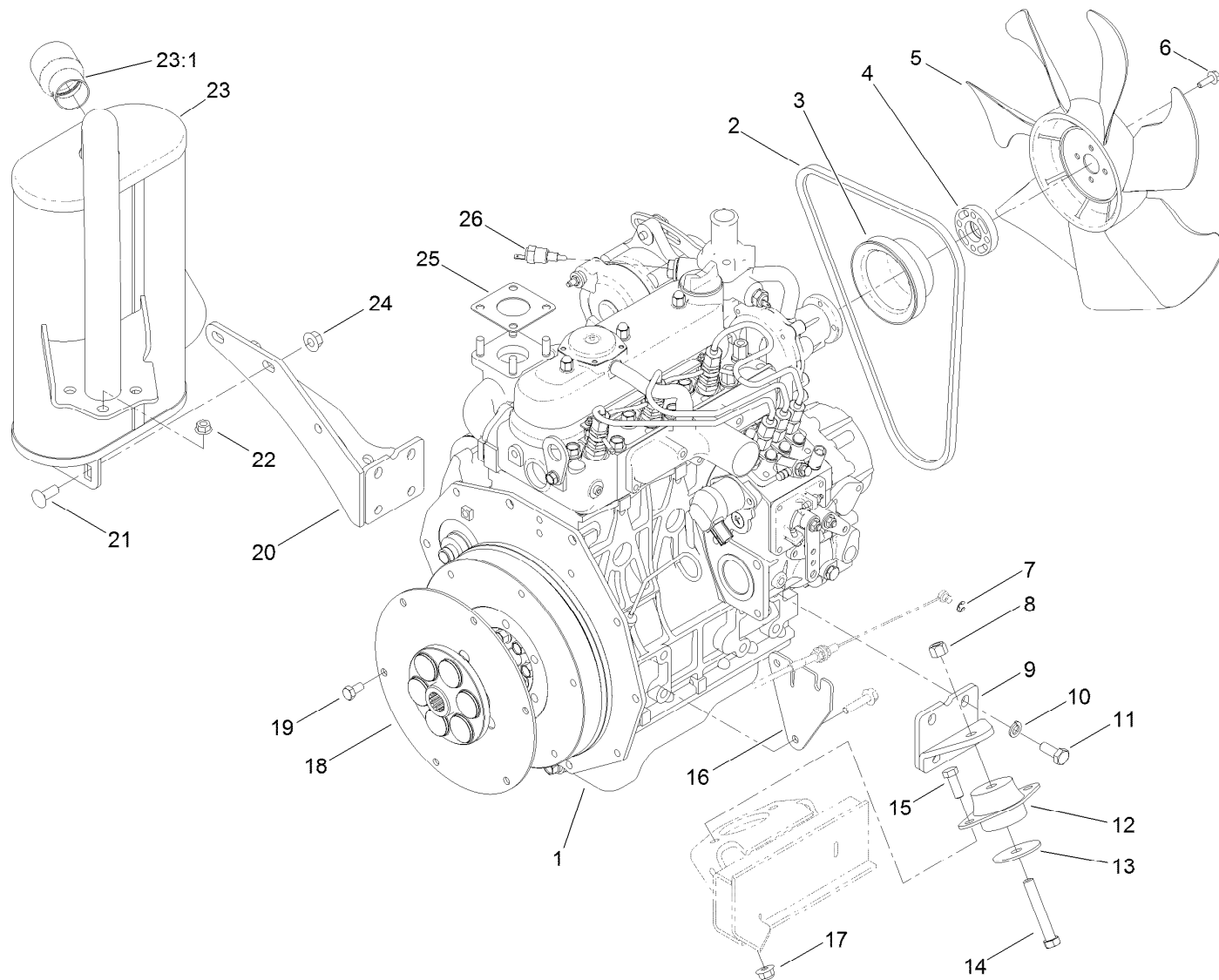
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## Rear Frame Assembly

| Ref. | Part Number | Qty. | Description    |
|------|-------------|------|----------------|
| 1    | 110-9770    | 1    | Upper ROPS ASM |
| 1:2  | 107-3069    | 1    | Decal-Warning  |
| 2    | 104-8301    | 4    | Nut-HF, NI     |
| 3    | 132-8150    | 1    | Crossmember    |
| 4    | 32144-14    | 2    | Screw-HWHTF    |
| 5    | 112-6368-0P | 1    | Shield-Heat    |
| 6    | 125-2714-03 | 1    | Frame-Rear     |
| 7    | 120-0019    | 2    | Strip-Foam     |
| 8    | 120-0017    | 2    | Strip-Foam     |
| 9    | 107069      | 2    | Clip           |
| 10   | 32151-106   | 2    | Ring-Retaining |
| 11   | 112-6384-0P | 1    | Screen         |
| 12   | 3256-22     | 2    | Washer-Flat    |
| 13   | 98-8332     | 2    | Knob           |
| 14   | 74-5950     | 3    | Latch-Swell    |

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 15   | 125-2718-03 | 1    | Panel-Rear            |
| 16   | 1-804254    | 3    | Nut-Lock, HH          |
| 17   | 323-13      | 4    | Screw-HH              |
| 18   | 3290-412    | 4    | Rivet-Blind           |
| 19   | 110-5696    | 2    | Spring-Leaf           |
| 20   | 103-4553    | 2    | Pin-Fold, ROPS        |
| 21   | 112-7264    | 2    | Screw-HH              |
| 22   | 32128-23    | 2    | Nut-HF                |
| 23   | 237-124     | 2    | Grommet               |
| 27   | 133-5618    | 1    | Decal-Arrester, Spark |
| 30   | 3290-134    | 1    | Screw                 |
| 31   | 32128-17    | 1    | Nut-Lock, Flange      |
| 32   | 105-5761    | 2    | Grommet               |
| 33   | 130-6086    | 1    | Grommet               |



## Engine Assembly

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 132-5202    | 1    | Engine-Kubota, D1105T |
| 2    | 98-9676     | 1    | V-Belt                |
| 3    | 98-9584     | 1    | Pulley-Fan            |
| 4    | 108-2872    | 1    | Collar-Fan            |
| 5    | 104-4246    | 1    | Fan-Engine            |
| 6    | 33103-020   | 4    | Screw-HHF             |
| 7    | 701197      | 1    | E-Ring                |
| 8    | 3296-48     | 2    | Nut-Hex               |
| 9    | 105-7235-0P | 1    | Mount-Rear, LH        |
| 10   | 48-9590     | 8    | Washer-Lock           |
| 11   | 43-0090     | 8    | Screw-HH              |
| 12   | 130-2486    | 2    | Mount                 |
| 13   | 87-5100     | 2    | Washer-Snubbing       |
| 14   | 324-11      | 2    | Screw-HH              |

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 15   | 323-6       | 4    | Screw-HH           |
| 16   | 114-4060    | 1    | Bracket-Throttle   |
| 17   | 104-8301    | 4    | Nut-HF, NI         |
| 18   | 110-9729    | 1    | Coupling-Flywheel  |
| 19   | 99-5132     | 6    | Bolt               |
| 20   | 108-9926-0P | 1    | Bracket-Muffler    |
| 21   | 3231-22     | 2    | Screw-CARR         |
| 22   | 33004-00    | 4    | Nut-HF             |
| 23   | 108-9912    | 1    | Muffler            |
| 23:1 | 112-1688    | 1    | Spark Arrestor Kit |
| 24   | 32128-29    | 2    | Nut-Lock, Flange   |
| 25   | 99-8343     | 1    | Gasket-Muffler     |
| 26   | 98-9719     | 1    | Thermoswitch       |

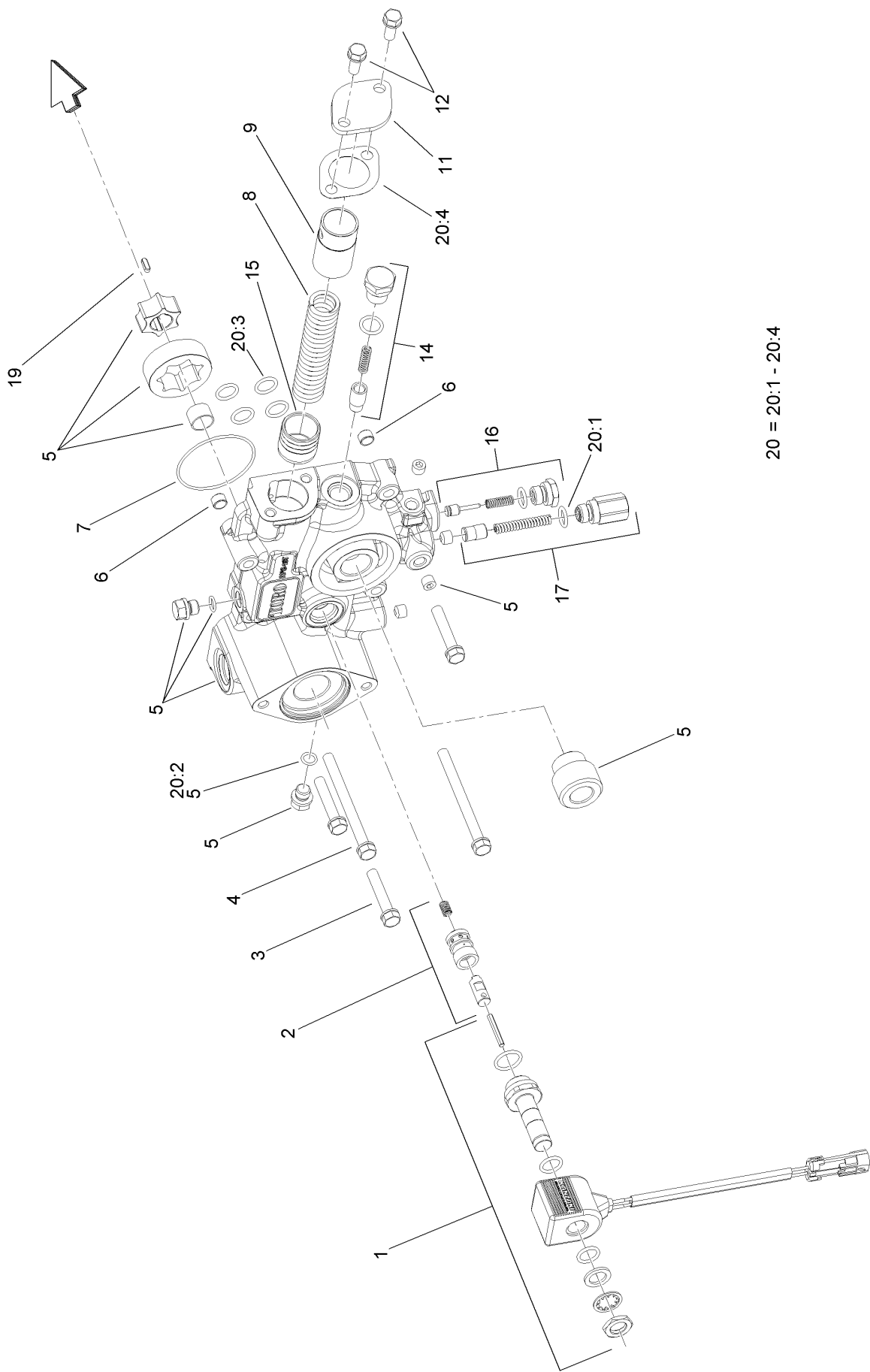


## Transmission and Gear Pump Assembly

| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 1    | 323-13      | 2    | Screw-HH         |
| 2    | 3256-24     | 2    | Washer-Flat      |
| 3    | 108-5193    | 1    | Housing-Flywheel |
| 4    | 107-2289    | 2    | Mount-Motor      |
| 5    | 80-8560     | 2    | Washer-Hardened  |
| 6    | 104-8301    | 2    | Nut-HF, NI       |
| 7    | 104-8300    | 2    | Nut-HF, NI       |
| 8    | 3234-17     | 2    | Screw-HHF        |
| 9    | 3253-4      | 10   | Washer-Lock      |
| 10   | 33104-035   | 8    | Screw-HHF        |
| 11   | 87-1910     | 4    | Pin-Dowel        |
| 12   | 131-5510    | 1    | Transmisson ASM  |
| 13   | 108-5194    | 1    | Filter-Oil, HYD  |
| 14   | 114-4088    | 1    | Shield-Seal      |
| 15   | 33115-016   | 2    | Screw-HH         |
| 16   | 322-9       | 4    | Screw-HH         |
| 17   | 32121-34    | 2    | Pin-Roll         |
| 18   | 110-3575    | 1    | Driveshaft ASM   |

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 19   | 3296-29     | 4    | Nut-Lock, NI         |
| 20   | 112-9542    | 1    | HYD Gear Pump ASM    |
| 21   | 33114-025   | 2    | Screw-HH             |
| 22   | 3256-23     | 2    | Washer-Plain         |
| 23   | 108-9919    | 1    | O-Ring               |
| 24   | 108-9920    | 1    | Coupler-Spline       |
| 25   | 33115-035   | 1    | Screw-HH             |
| 26   | 33115-045   | 6    | Screw-HH             |
| 27   | 48-9590     | 9    | Washer-Lock          |
| 28   | 32180-030   | 1    | Clip-Tie             |
| 29   | 120-0239    | 1    | Support-Tube         |
| 30   | 32144-14    | 2    | Screw-HWHTF          |
| 31   | 110-5537    | 1    | Tube                 |
| 32   | 110-5536    | 1    | Fitting-HYD, Adapter |
| 32:1 | 237-78      | 1    | O-Ring               |
| 33   | 3274-106    | 2    | Screw-HSH            |
| 34   | 99-3481     | 2    | Grommet              |
| 35   | 125-2716-0P | 1    | Bracket-Wire         |

# Charge Pump Housing Assembly Transmission Assembly No. 131-5510

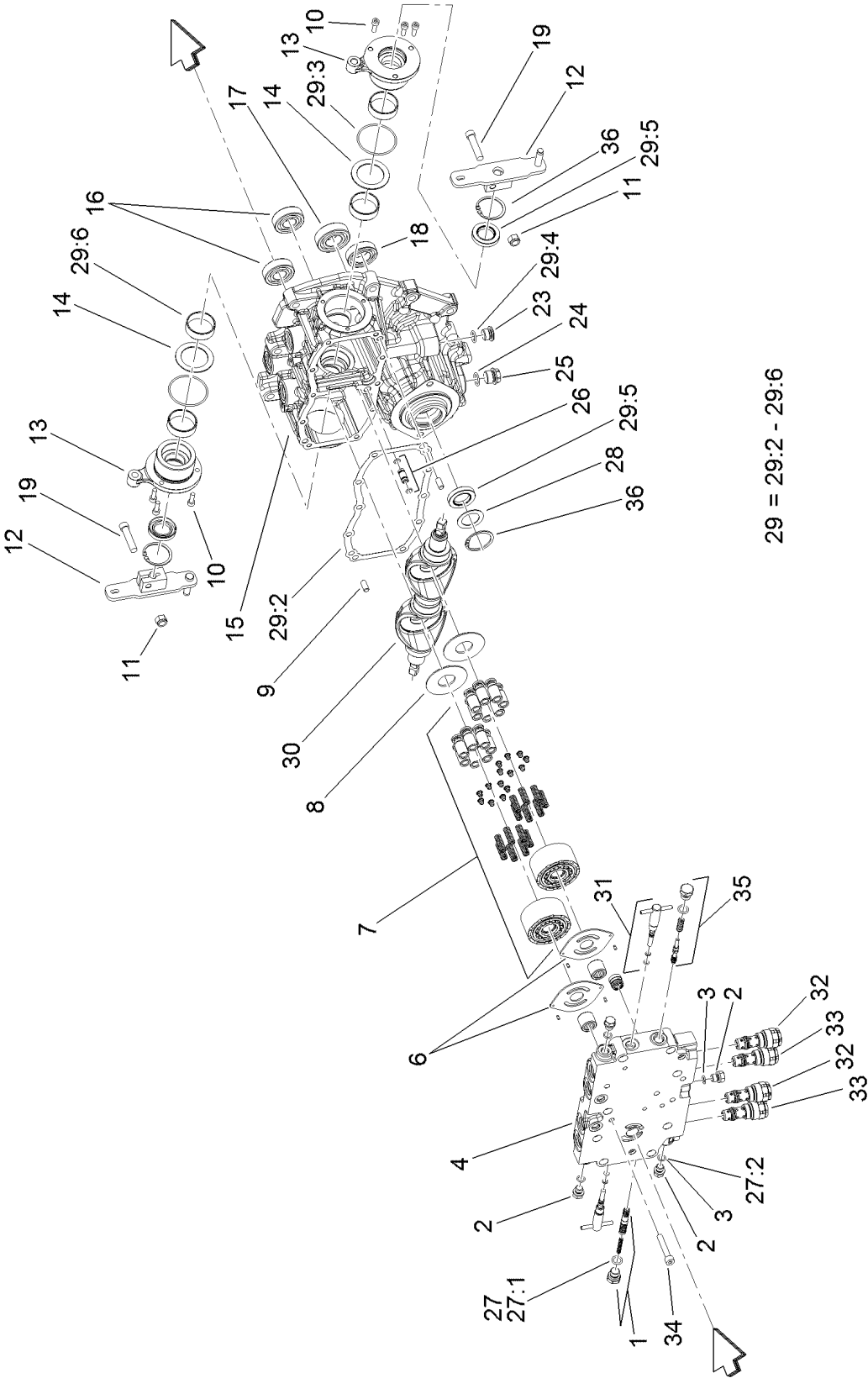


# Charge Pump Housing Assembly

## Transmission Assembly No. 131-5510 (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           | 107-0851           | 1           | Solenoid ASM        | 14          | 107-0843           | 1           | Filter Bypass Valve ASM |
| 2           | 107-0850           | 1           | Solenoid Valve ASM  | 15          | 107-0818           | 1           | Piston                  |
| 3           | 107-0863           | 3           | Bolt                | 16          | 107-0842           | 1           | Charge Relief Valve ASM |
| 4           | 107-0864           | 2           | Bolt                | 17          | 107-0841           | 1           | Pressure Valve ASM      |
| 5           | 107-0840           | 1           | Pump Body ASM       | 19          | 107-0865           | 1           | Key                     |
| 6           | 107-0848           | 2           | Pin                 | 20          | 107-0855           | 1           | Charge Pump Seal Kit    |
| 7           | 107-0856           | 1           | O-Ring              | 20:1        | 93-0418            | 2           | O-Ring                  |
| 8           | 107-0845           | 1           | Spring              | 20:2        | 107-0817           | 2           | O Ring-Plug             |
| 9           | 107-0844           | 1           | Collar              | 20:3        | 104-3298           | 6           | Packing                 |
| 11          | 107-0846           | 1           | Cover               | 20:4        | 107-0847           | 1           | Gasket                  |
| 12          | 93-0457            | 2           | Bolt And Washer ASM |             |                    |             |                         |

# Center Section Assembly Transmission Assembly No. 131-5510



29 = 29:2 - 29:6

# Center Section Assembly

## Transmission Assembly No. 131-5510 (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           | 107-0807           | 1           | Valve-Flushing, RH    | 25          | 107-0867           | 1           | Plug                  |
| 2           | 107-0857           | 6           | Plug                  | 26          | 107-0812           | 1           | Pipe                  |
| 3           | 107-0817           | 6           | O Ring-Plug           | 27          | 107-0852           | 1           | Center Case Seal Kit  |
| 4           | 121-3377           | 1           | Center Case, Complete | 27:1        | 93-0418            | 2           | O-Ring                |
| 6           | 107-0805           | 2           | Plate-Valve           | 27:2        | 107-0817           | 6           | O Ring-Plug           |
| 7           | 107-0824           | 2           | Cylinder Block ASM    | 28          | 107-0813           | 1           | Spacer                |
| 8           | 107-0830           | 2           | Plate-Thrust          | 29          | 107-0853           | 1           | Pump Housing Seal Kit |
| 9           | 92-0765            | 4           | Pin-Parallel          | 29:2        | 107-0810           | 1           | Gasket-Case, Center   |
| 10          | 107-0859           | 6           | Bolt                  | 29:3        | 107-0817           | 2           | O Ring-Plug           |
| 11          | 120-6681           | 2           | U-Nut                 | 29:4        | 104-3298           | 1           | Packing               |
| 12          | 120-6680           | 2           | Arm-Control           | 29:5        | 107-0814           | 3           | Seal                  |
| 13          | 107-0832           | 2           | Side Cover ASM        | 29:6        | 107-0825           | 4           | Ring-Seal             |
| 14          | 107-0829           | 2           | Washer                | 30          | 120-6679           | 2           | Plate-Swash           |
| 15          | 120-5151           | 1           | Pump Housing ASM      | 31          | 107-0808           | 2           | Valve-Bypass          |
| 16          | 107-0826           | 2           | Bearing               | 32          | 107-0804           | 2           | Valve-Rear            |
| 17          | 107-0821           | 1           | Bearing               | 33          | 107-0803           | 2           | Valve-Front           |
| 18          | 107-0838           | 1           | Bearing               | 34          | 107-0863           | 8           | Bolt                  |
| 19          | 120-6682           | 2           | Bolt                  | 35          | 107-0806           | 1           | Valve-Flushing, LH    |
| 23          | 107-0861           | 1           | Plug-NPTF             | 36          | 92-0757            | 2           | Ring-Snap             |
| 24          | 237-79             | 1           | O-Ring                |             |                    |             |                       |

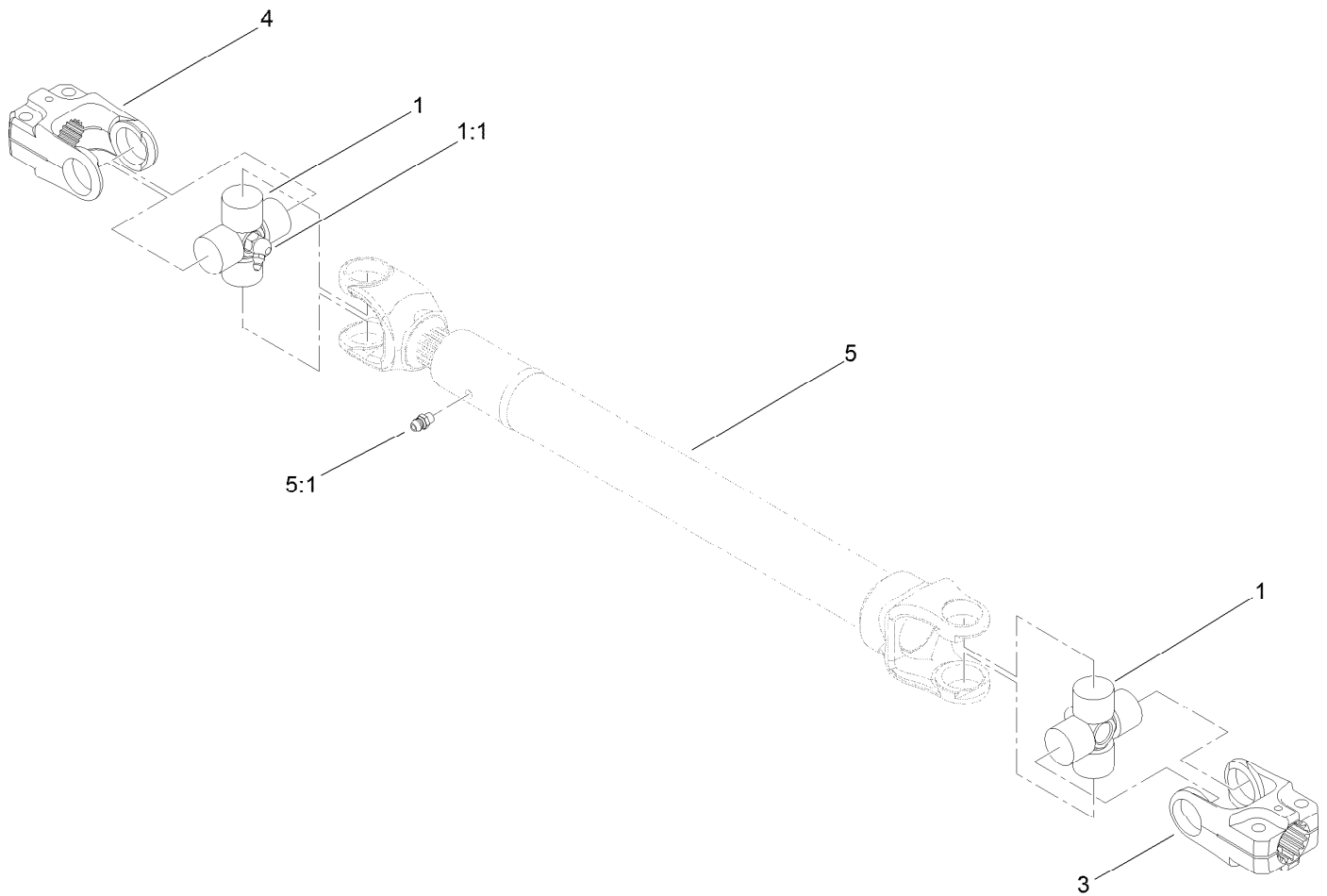


# Gear Case and Clutch Assembly

## Transmission Assembly No. 131-5510 (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           | 107-0839           | 1           | PTO Brake ASM        | 19          | 107-0811           | 1           | Pipe                  |
| 2           | 107-0837           | 3           | Rod-Push             | 20          | 107-0821           | 2           | Bearing               |
| 3           | 107-0833           | 1           | PTO Shaft ASM        | 21          | 107-0836           | 1           | Spacer                |
| 4           | 107-0825           | 2           | Ring-Seal            | 22          | 107-0820           | 1           | Gear-Input            |
| 5           | 107-0827           | 1           | Shaft-Pump           | 23          | 107-0834           | 1           | Gear-PTO              |
| 6           | 107-0823           | 2           | Gear-Pump            | 24          | 107-0822           | 1           | Shaft-Pump            |
| 7           | 92-0765            | 4           | Pin-Parallel         | 25          | 107-0819           | 1           | Shaft-Input           |
| 8           | 107-0816           | 1           | Gasket-Housing, Gear | 26          | 92-0758            | 1           | Ring-Snap             |
| 9           | 107-0826           | 4           | Bearing              | 27          | 107-0838           | 3           | Bearing               |
| 10          | 120-5152           | 1           | Housing-Case, Gear   | 28          | 107-0866           | 1           | Key                   |
| 11          | 107-0863           | 13          | Bolt                 | 29          | 107-0835           | 1           | Clutch Cylinder ASM   |
| 12          | 92-0757            | 1           | Ring-Snap            | 30          | 107-0854           | 1           | Gear Housing Seal Kit |
| 13          | 107-0813           | 1           | Spacer               | 30:1        | 107-0817           | 2           | O Ring-Plug           |
| 14          | 107-0814           | 1           | Seal                 | 30:2        |                    | 2           | O-Ring ●              |
| 15          | 104-3298           | 1           | Packing              | 30:3        | 104-3298           | 1           | Packing               |
| 16          | 107-0861           | 1           | Plug-NPTF            | 30:4        | 107-0814           | 1           | Seal                  |
| 17          | 107-0817           | 6           | O Ring-Plug          | 30:5        | 107-0816           | 1           | Gasket-Housing, Gear  |
| 18          | 107-0857           | 6           | Plug                 |             |                    |             |                       |

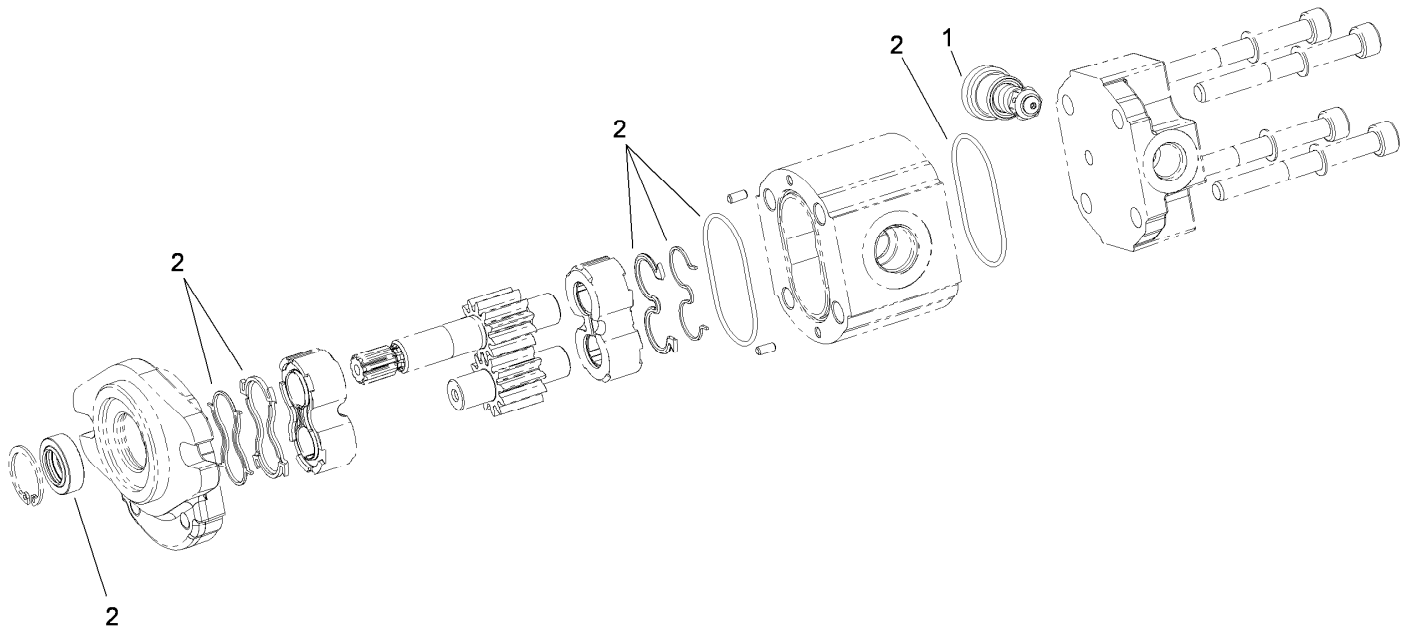
● Not serviced separately



## Driveshaft Assembly No. 110-3575

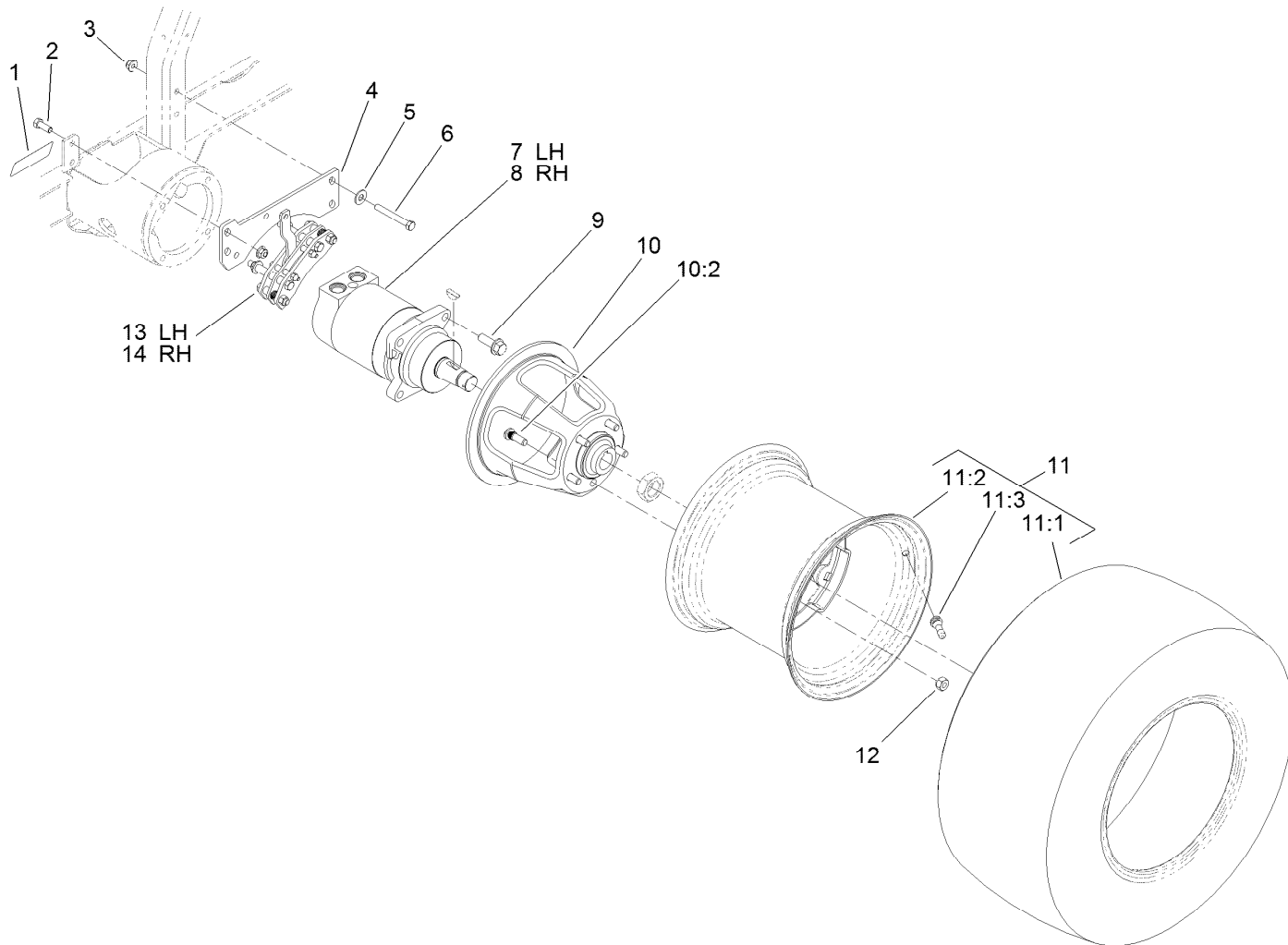
| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 112-1687    | 2    | Cross And Bearing Kit |
| 1:1  | 62-3820     | 1    | Fitting-Grease        |
| 3    | 54-9040     | 1    | Yoke-End              |
| 4    | 54-9090     | 1    | Yoke-End              |
| 5    |             | 1    | Tube-Yoke, Slip ●     |
| 5:1  | 302-22      | 1    | Fitting-Grease        |

● Not serviced separately



## Hydraulic Gear Pump Assembly No. 112-9542

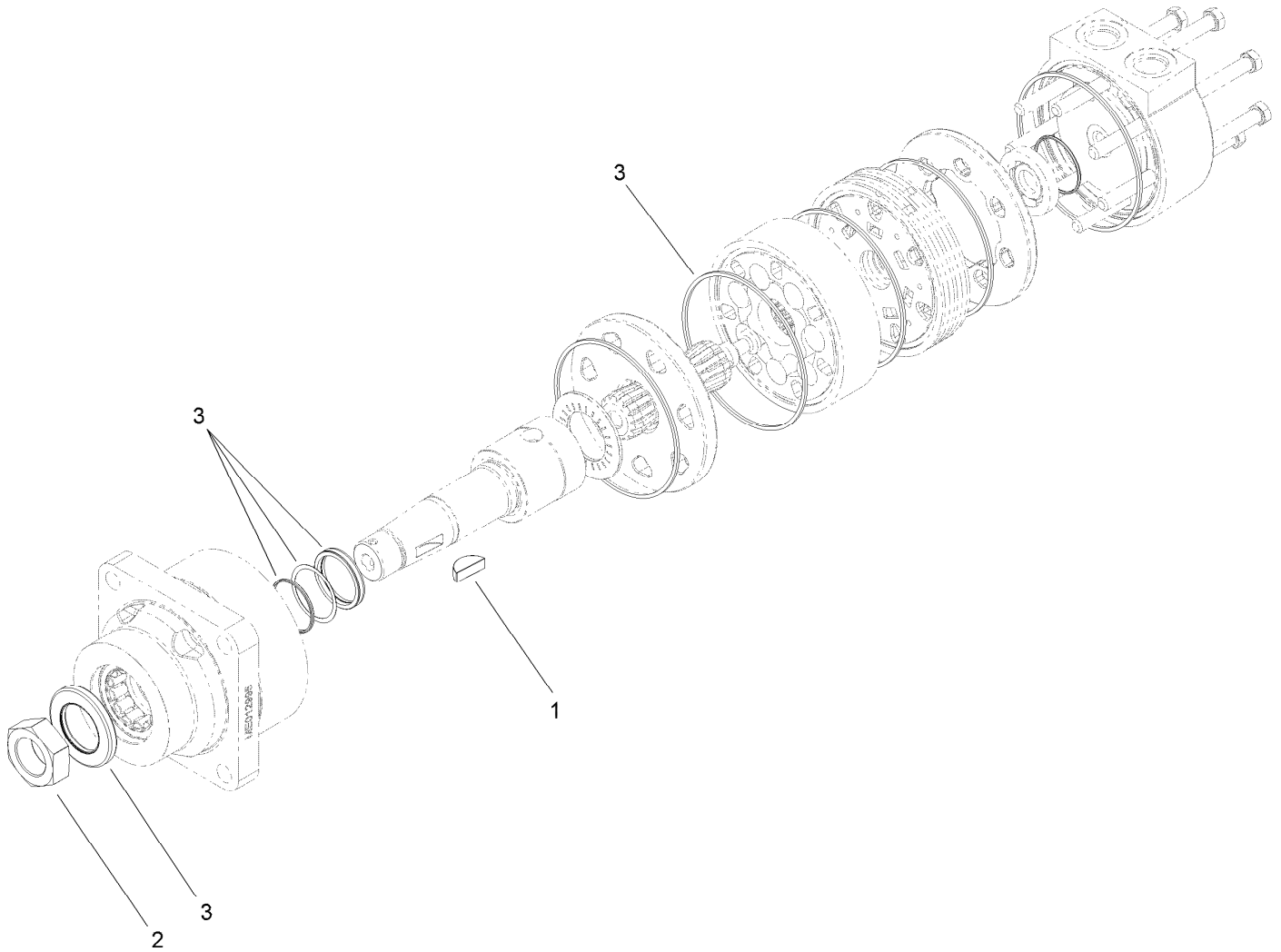
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 112-0198           | 1           | Valve              |
| 2           | 112-0199           | 1           | Seal Kit           |



## Rear Drive Assembly

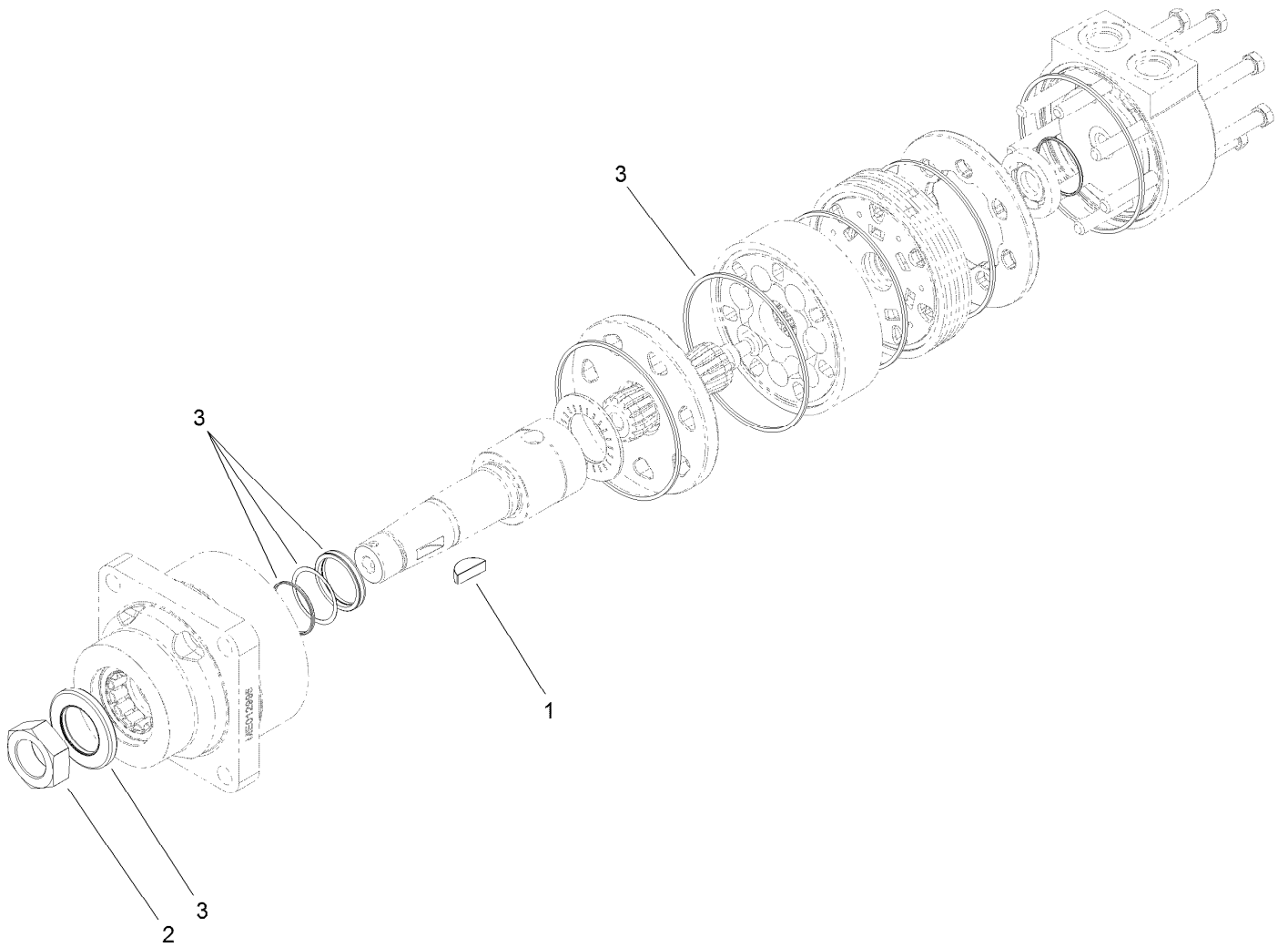
| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 1    | 106-9206    | 2    | Decal-Torque, Wheel |
| 2    | 323-6       | 4    | Screw-HH            |
| 3    | 104-8301    | 8    | Nut-HF, NI          |
| 4    | 112-9550-0P | 2    | Bracket-Brake       |
| 5    | 3256-4      | 4    | Washer-Flat         |
| 6    | 323-14      | 4    | Screw-HH            |
| 7    | 108-5155    | 1    | LH HYD Motor ASM    |
| 8    | 108-5230    | 1    | RH HYD Motor ASM    |
| 9    | 100-6116    | 8    | Screw-HHF           |

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 110-5535    | 2    | Wheel Hub ASM        |
| 10:2 | 87-8730     | 5    | Stud                 |
| 11   | 106-7864    | 2    | Tire And Wheel ASM   |
| 11:1 | 106-7868    | 1    | Tire                 |
| 11:2 | 87-6750     | 1    | Wheel                |
| 11:3 | 232-27      | 1    | Stem-Valve           |
| 12   | 23-7270     | 10   | Nut-Lug              |
| 13   | 120-0013    | 1    | LH Brake Caliper ASM |
| 14   | 120-0014    | 1    | RH Brake Caliper ASM |



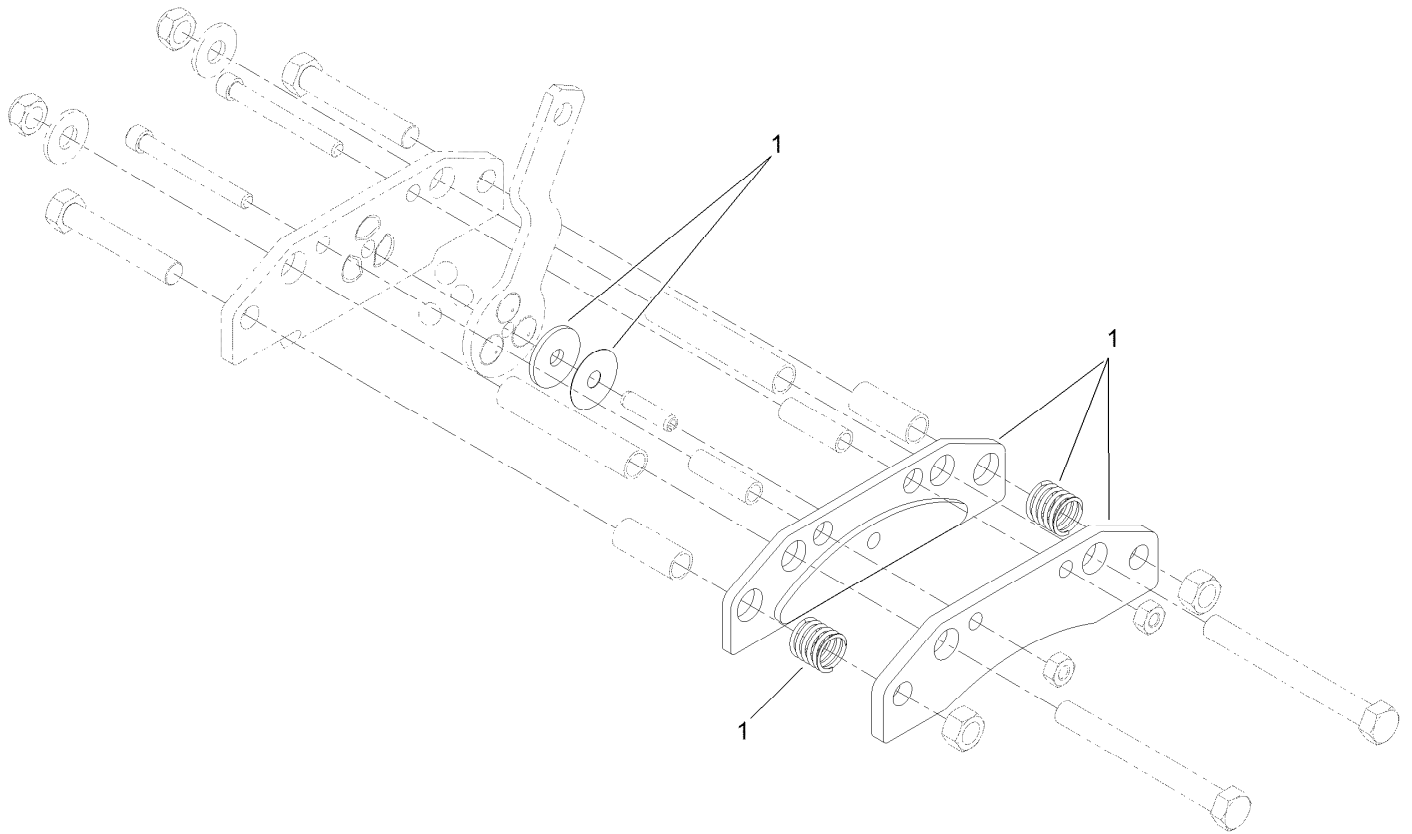
## Hydraulic Motor Assembly No. 108-5155

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 3257-42            | 1           | Key-Woodruff       |
| 2           | 107-9319           | 1           | Nut-Hex            |
| 3           | 112-8405           | 1           | Seal Kit           |



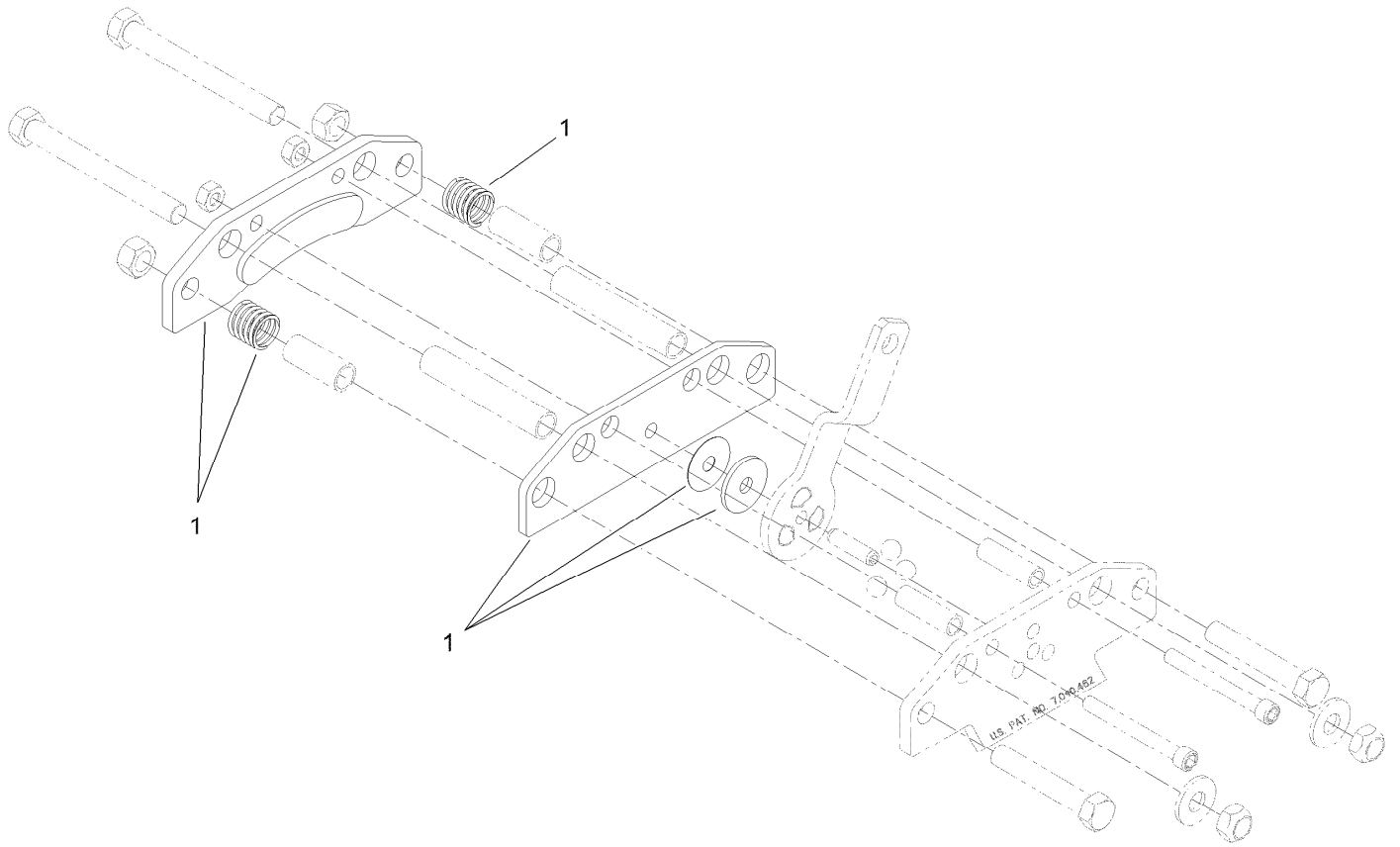
## Hydraulic Motor Assembly No. 108-5230

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 3257-42            | 1           | Key-Woodruff       |
| 2           | 107-9319           | 1           | Nut-Hex            |
| 3           | 112-8405           | 1           | Seal Kit           |



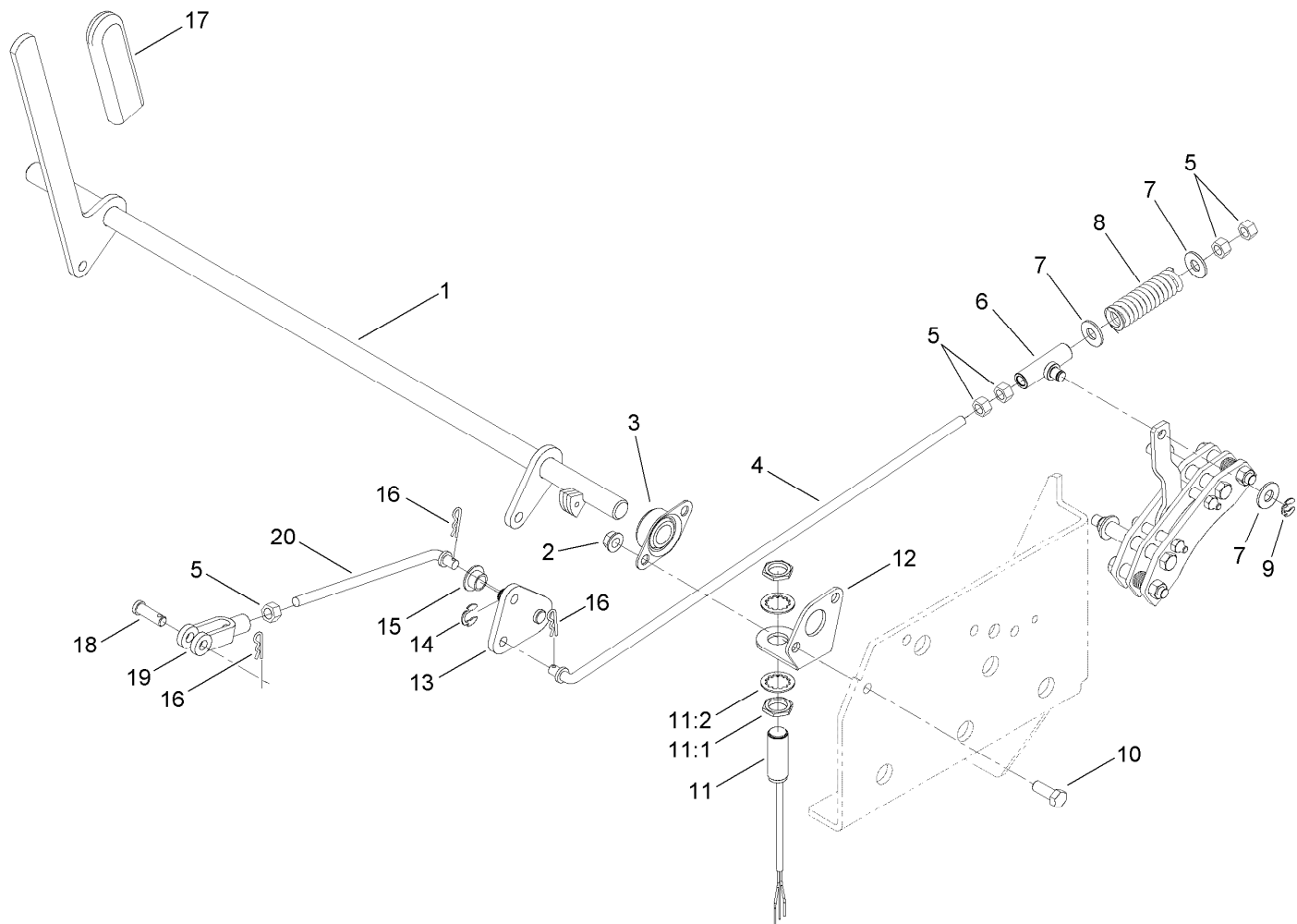
## LH Brake Caliper Assembly No. 120-0013

| Ref. | Part Number | Qty. | Description                       |
|------|-------------|------|-----------------------------------|
| 1    | 120-0015    | 1    | Replacement Brake Pad Service Kit |



## RH Brake Caliper Assembly No. 120-0014

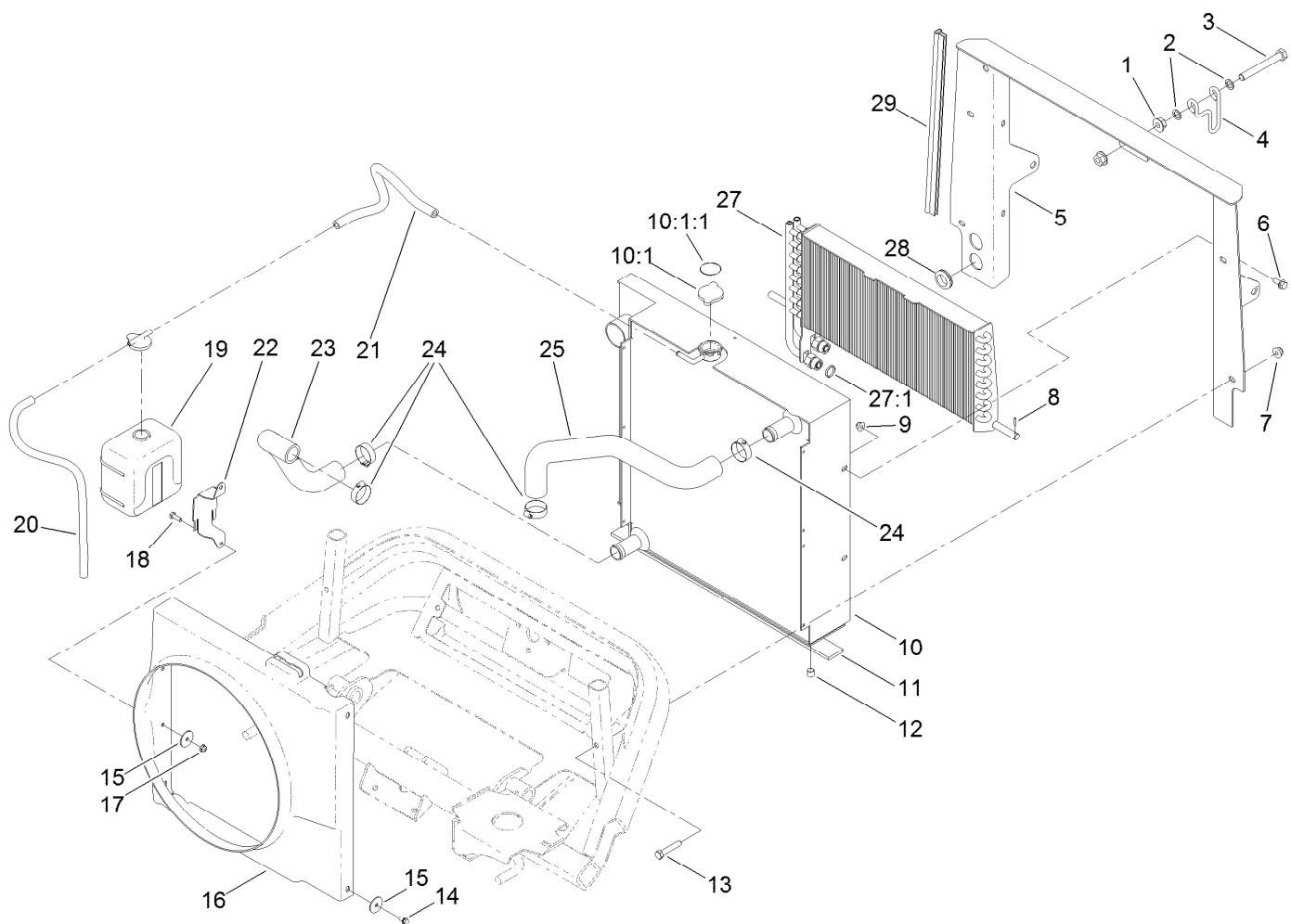
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>                |
|-------------|--------------------|-------------|-----------------------------------|
| 1           | 120-0015           | 1           | Replacement Brake Pad Service Kit |



## Brake Handle Assembly

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 1    | 140-7064    | 1    | Handle-Brake         |
| 2    | 3290-357    | 4    | Nut-HHF, Whiz        |
| 3    | 1-633102    | 2    | Bearing-Flange, Side |
| 4    | 120-0009    | 2    | Rod-Brake            |
| 5    | 3219-3      | 10   | Nut-Hex              |
| 6    | 132-8128    | 2    | Swivel ASM           |
| 7    | 3256-4      | 6    | Washer-Flat          |
| 8    | 109-2230    | 2    | Spring-Compression   |
| 9    | 32151-47    | 2    | Ring-Retaining       |
| 10   | 323-6       | 4    | Screw-HH             |
| 11   | 115-5300    | 1    | Proximity Switch ASM |

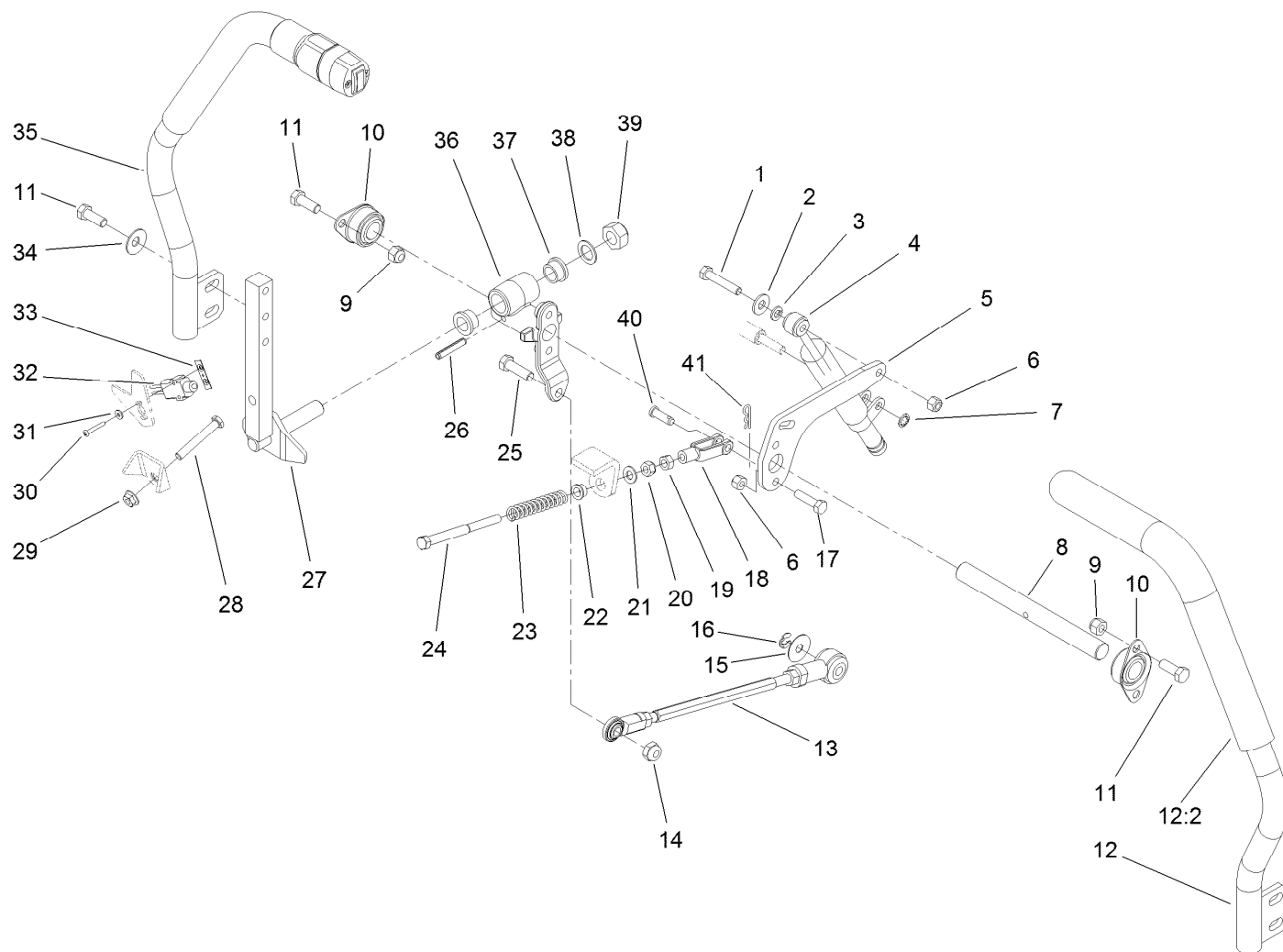
| Ref. | Part Number | Qty. | Description                 |
|------|-------------|------|-----------------------------|
| 11:1 | 117-3207    | 2    | Nut-Hex                     |
| 11:2 | 117-3208    | 2    | Washer-Lock, Internal Tooth |
| 12   | 117-5572    | 1    | Bracket-Switch              |
| 13   | 120-0022    | 2    | Pivot-Brake                 |
| 14   | 32151-68    | 2    | Ring-Retaining              |
| 15   | 1-513140    | 4    | Bearing-Control             |
| 16   | 3290-307    | 6    | Pin-Cotter                  |
| 17   | 1-633268    | 1    | Grip-Lever                  |
| 18   | 1-808285    | 2    | Pin-Clevis                  |
| 19   | 1-633131    | 2    | Yoke-Linkage, Brake         |
| 20   | 120-0023    | 2    | Rod-Brake                   |



## Radiator and Oil Cooler Assembly

| Ref.   | Part Number | Qty. | Description         |
|--------|-------------|------|---------------------|
| 1      | 32128-49    | 2    | Nut-HHF             |
| 2      | 41-8440     | 2    | Washer              |
| 3      | 325-17      | 1    | Screw-HH            |
| 4      | 104-5429    | 1    | Clamp-Form, Wire    |
| 5      | 110-8277-03 | 1    | Frame-Radiator      |
| 6      | 3234-5      | 4    | Screw-HHF           |
| 7      | 104-8301    | 4    | Nut-HF, NI          |
| 8      | 32121-107   | 1    | Pin-Roll            |
| 9      | 104-8300    | 4    | Nut-HF, NI          |
| 10     | 117-5135    | 1    | Radiator            |
| 10:1   | 115-7766    | 1    | Cap-Radiator        |
| 10:1:1 | 106-6755    | 1    | Decal-Cap, Radiator |
| 11     | 108-9935    | 1    | Strip-Foam          |
| 12     | 99-8551     | 1    | Plug-Pipe           |
| 13     | 323-10      | 4    | Screw-HH            |
| 14     | 32104-116   | 4    | Screw-HWHTF         |

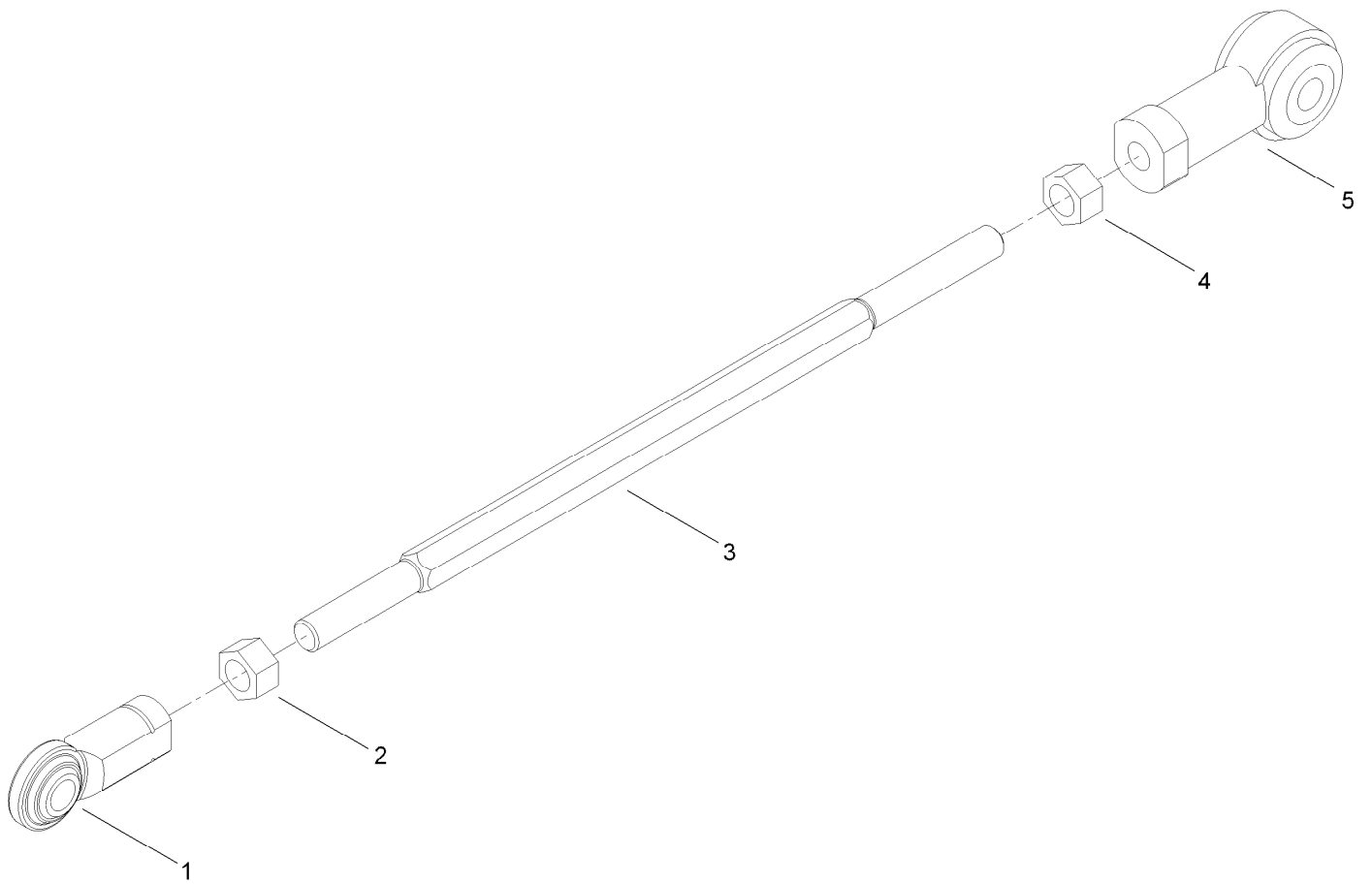
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 15   | 3256-55     | 6    | Washer-Flat          |
| 16   | 117-9232    | 1    | Shroud-Fan           |
| 17   | 104-7201    | 2    | Nut-HF               |
| 18   | 321-4       | 2    | Screw-HH             |
| 19   | 104-9318    | 1    | Bottle-Overflow      |
| 20   | 110-6187    | 1    | Hose-Fuel            |
| 21   | 109-0274    | 1    | Hose-Fuel            |
| 22   | 108-9930-0P | 1    | Bracket-Bottle       |
| 23   | 105-7283    | 1    | Hose-Radiator, Lower |
| 24   | 2412-34     | 4    | Clamp-Hose           |
| 25   | 105-7282    | 1    | Hose-Radiator, Upper |
| 27   | 112-1684    | 1    | Cooler-Oil           |
| 27:1 | 237-30      | 2    | O-Ring               |
| 28   | 240-5       | 2    | Grommet              |
| 29   | 107-2269    | 2    | Seal-Bulb            |



## Traction Control Assembly

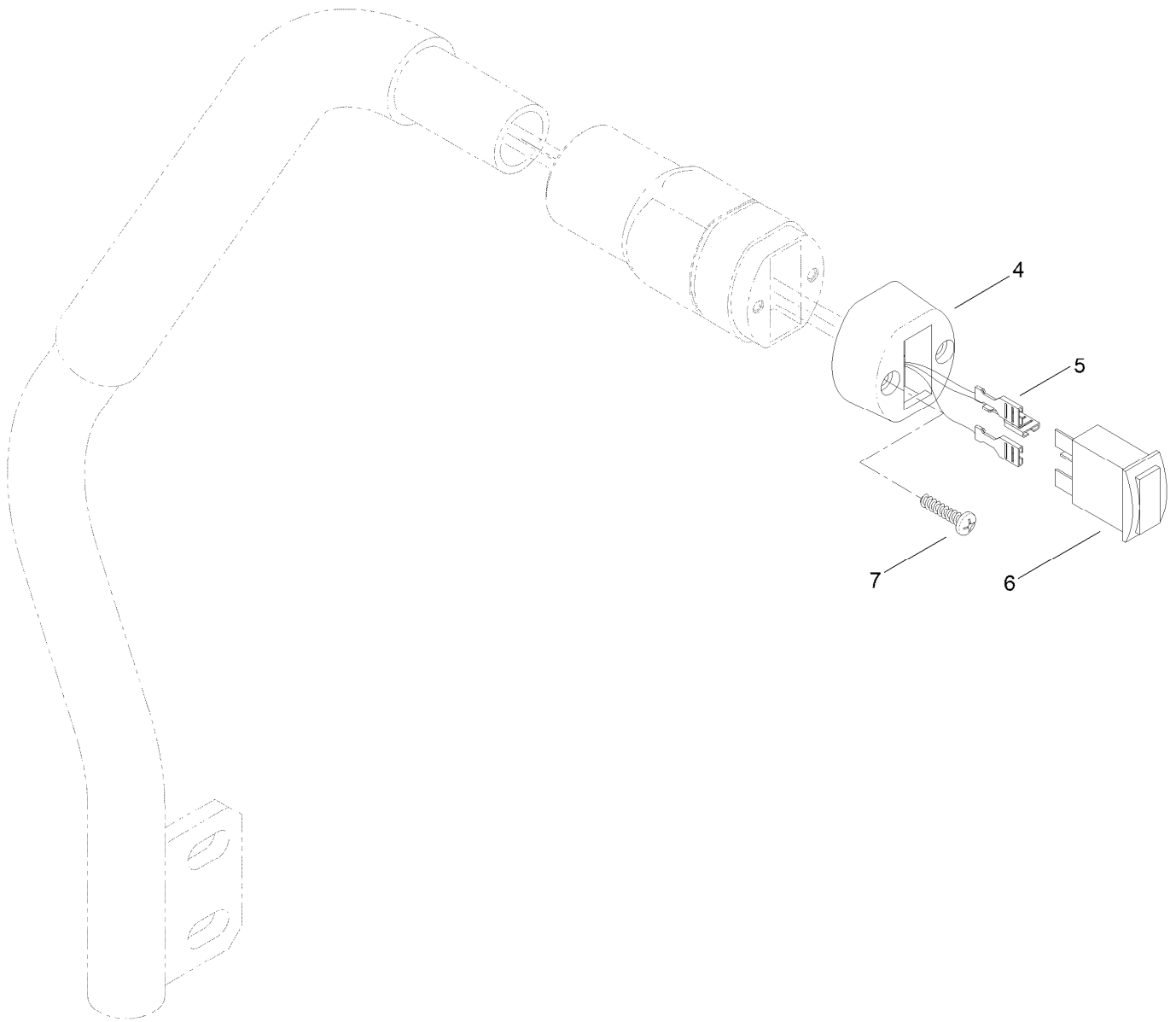
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 1    | 322-9       | 2    | Screw-HH             |
| 2    | 3256-3      | 2    | Washer-Flat          |
| 3    | 3253-4      | 4    | Washer-Lock          |
| 4    | 138-8207    | 2    | Damper               |
| 5    | 108-9829-0P | 2    | Lever-Damper         |
| 6    | 3296-29     | 6    | Nut-Lock, NI         |
| 7    | 32151-72    | 2    | Ring-Retaining       |
| 8    | 108-9830    | 2    | Shaft-Pivot          |
| 9    | 3296-39     | 8    | Nut-Lock, NI         |
| 10   | 1-633102    | 4    | Bearing-Flange, Side |
| 11   | 323-6       | 12   | Screw-HH             |
| 12   | 125-2688    | 1    | LH Lever ASM         |
| 12:2 | 125-2704    | 1    | Grip-Foam            |
| 13   | 112-5099    | 2    | Link ASM             |
| 14   | 3296-44     | 2    | Nut-Lock, NI         |
| 15   | 105-6814    | 2    | Washer-Plain         |
| 16   | 32151-47    | 2    | Ring-Retaining       |
| 17   | 322-6       | 4    | Screw-HH             |
| 18   | 1-303105    | 2    | Yoke-Adjustable      |
| 19   | 3219-2      | 2    | Nut-Hex              |
| 20   | 3296-4      | 2    | Nut-Lock             |

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 21   | 3256-23     | 2    | Washer-Plain           |
| 22   | 1-603735    | 2    | Bushing-Flanged        |
| 23   | 1-603807    | 2    | Spring-Return, Neutral |
| 24   | 1-603737    | 2    | Bolt-Return, Neutral   |
| 25   | 323-7       | 2    | Screw-HH               |
| 26   | 32121-15    | 2    | Pin-Roll               |
| 27   | 108-9833-03 | 2    | Lever                  |
| 28   | 9114524     | 2    | Bolt-TAP, HH           |
| 29   | 32128-26    | 2    | Nut-Flange             |
| 30   | 3250-35     | 4    | Screw-PPH              |
| 31   | 3256-53     | 4    | Washer-Flat            |
| 32   | 99-3410     | 2    | Switch                 |
| 33   | 108-9824    | 2    | Nut-Switch             |
| 34   | 3290-461    | 4    | Washer-Spring          |
| 35   | 125-2687    | 1    | RH Lever ASM           |
| 36   | 108-9831    | 2    | Hub-Control            |
| 37   | 105-3455    | 4    | Bushing                |
| 38   | 105-3481    | 4    | Washer-Thrust          |
| 39   | 32152-6     | 2    | Nut-Lock, Cone         |
| 40   | 283-1       | 2    | Pin-Clevis             |
| 41   | 3290-307    | 2    | Pin-Cotter             |



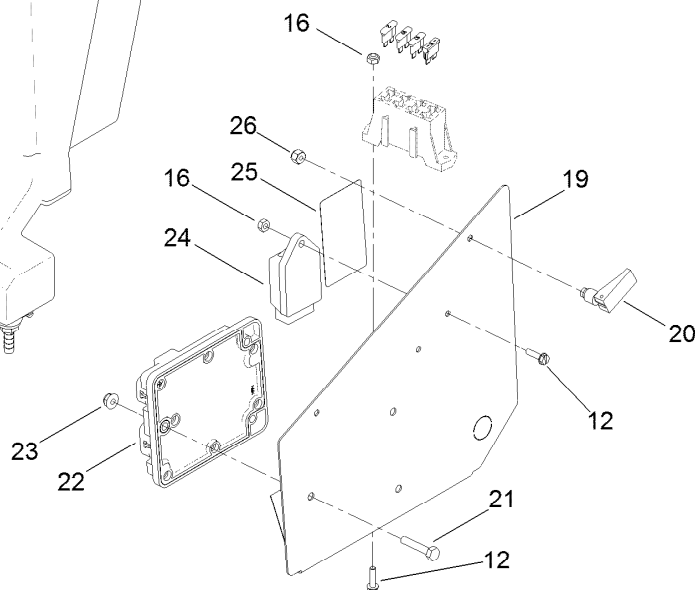
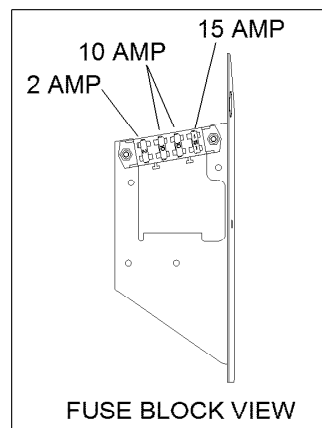
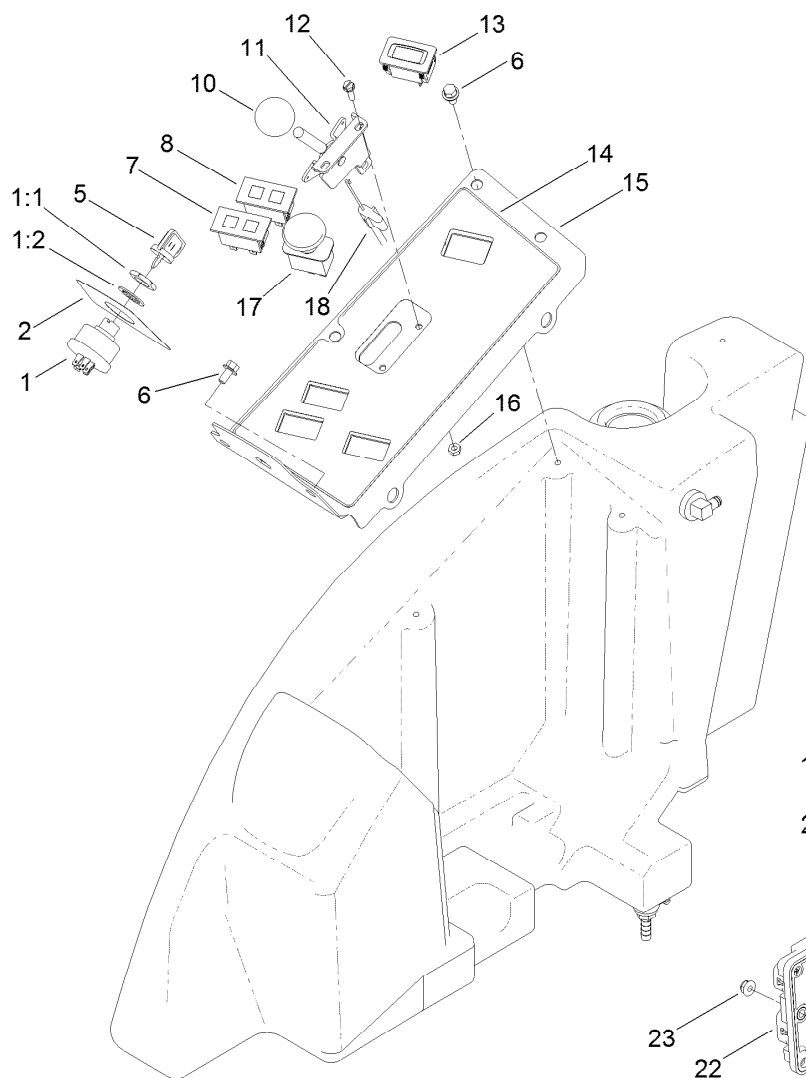
## Link Assembly No. 112-5099

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 1    | 103-1167    | 1    | Joint-Ball End, LH |
| 2    | 3219-20     | 1    | Nut-Hex, LH        |
| 3    | 105-7239    | 1    | Rod-Threaded       |
| 4    | 3219-3      | 1    | Nut-Hex            |
| 5    | 105-7199    | 1    | End-Rod, Isolated  |



## RH Lever Assembly No. 125-2687

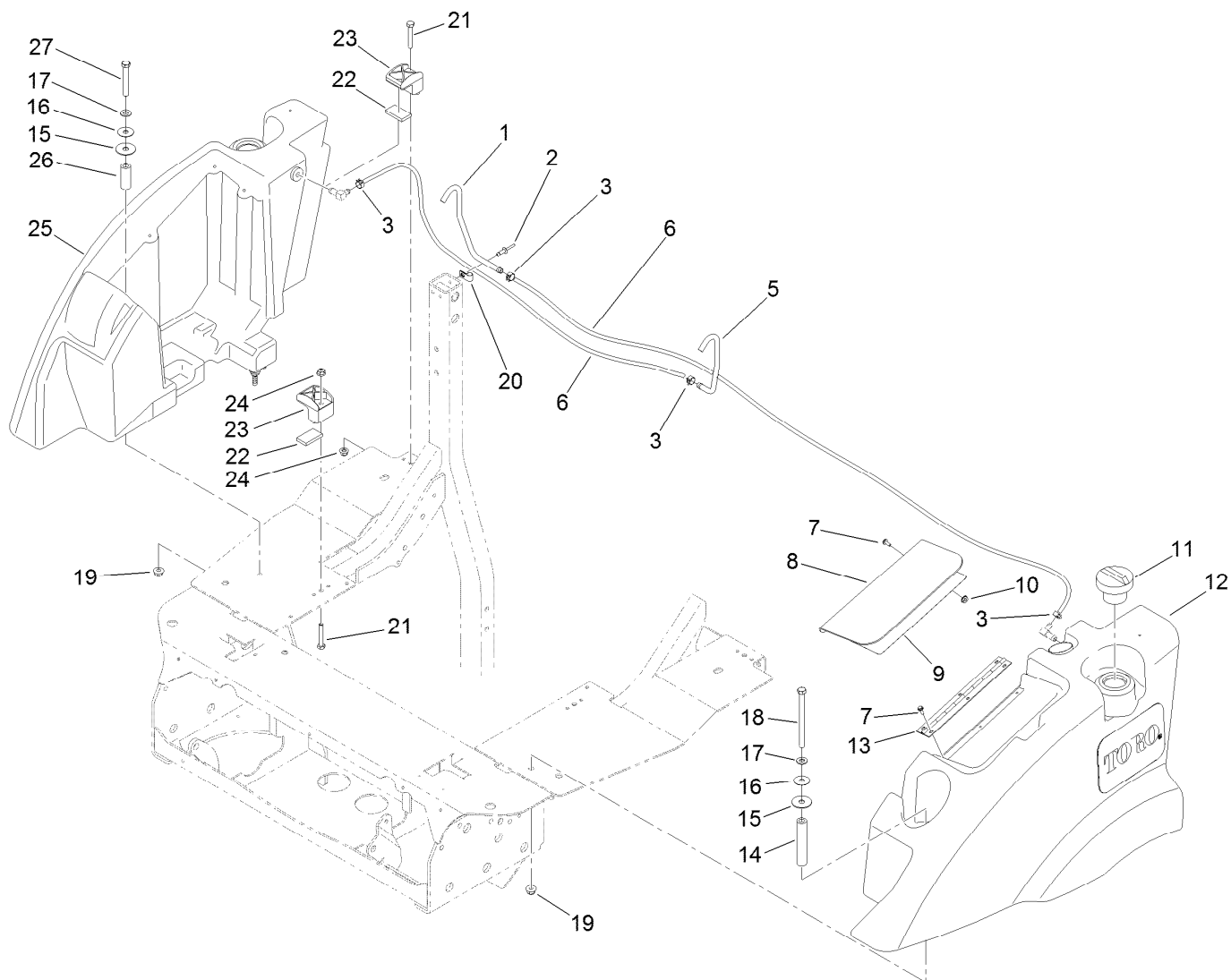
| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 4    | 121-3399    | 1    | Cap-Switch               |
| 5    | 119-4382    | 1    | Harness-Control Handle   |
| 6    | 125-2702    | 1    | Switch, Spst (On)-Off-On |
| 7    | 94-4496     | 2    | Screw-PPH                |



## Control Panel Assembly

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 1    | 104-2541    | 1    | Ignition Switch ASM        |
| 1:1  | 218-461     | 1    | Nut-HH                     |
| 1:2  | 3254-5      | 1    | Washer-Lock                |
| 2    | 110-8254    | 1    | Decal-Start, Control Panel |
| 5    | 63-8360     | 2    | Key-Ignition               |
| 6    | 3234-13     | 5    | Screw-HHF                  |
| 7    | 100-8071    | 1    | Lamp-Warning               |
| 8    | 100-8070    | 1    | Lamp-Warning               |
| 10   | 233-42      | 1    | Knob                       |
| 11   | 110-5547    | 1    | Lever-Control              |
| 12   | 32105-13    | 5    | Screw-HWH                  |
| 13   | 120-2244    | 1    | Hourmeter                  |
| 14   | 110-8253    | 1    | Decal-Panel, Control       |

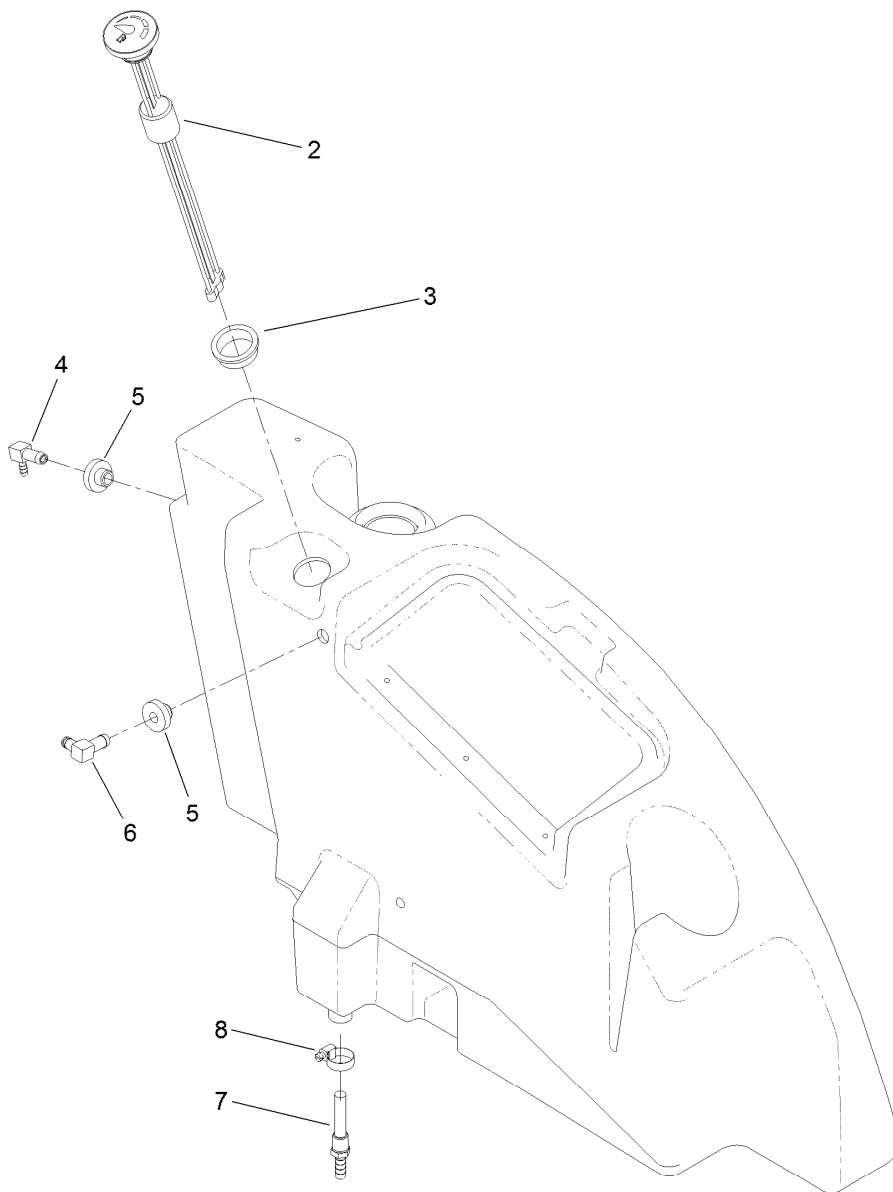
| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 15   | 138-8230-03 | 1    | Panel-Control            |
| 16   | 3296-2      | 5    | Nut-Lock, NI             |
| 17   | 93-9999     | 1    | Switch-PTO               |
| 18   | 110-5548    | 1    | Cable-Throttle           |
| 19   | 138-8231-03 | 1    | Cover-Panel, Control     |
| 20   | 74-5950     | 2    | Latch-Swell              |
| 21   | 321-13      | 3    | Screw-HH                 |
| 22   | 106-9277    | 1    | Module-Control, Standard |
| 23   | 104-7201    | 3    | Nut-HF                   |
| 24   | 107-9097    | 1    | Controller-Glow          |
| 25   | 110-9796    | 1    | Decal-Block, Fuse        |
| 26   | 1-804254    | 2    | Nut-Lock, HH             |



## Left-Hand and Right-Hand Fuel Tank Assembly

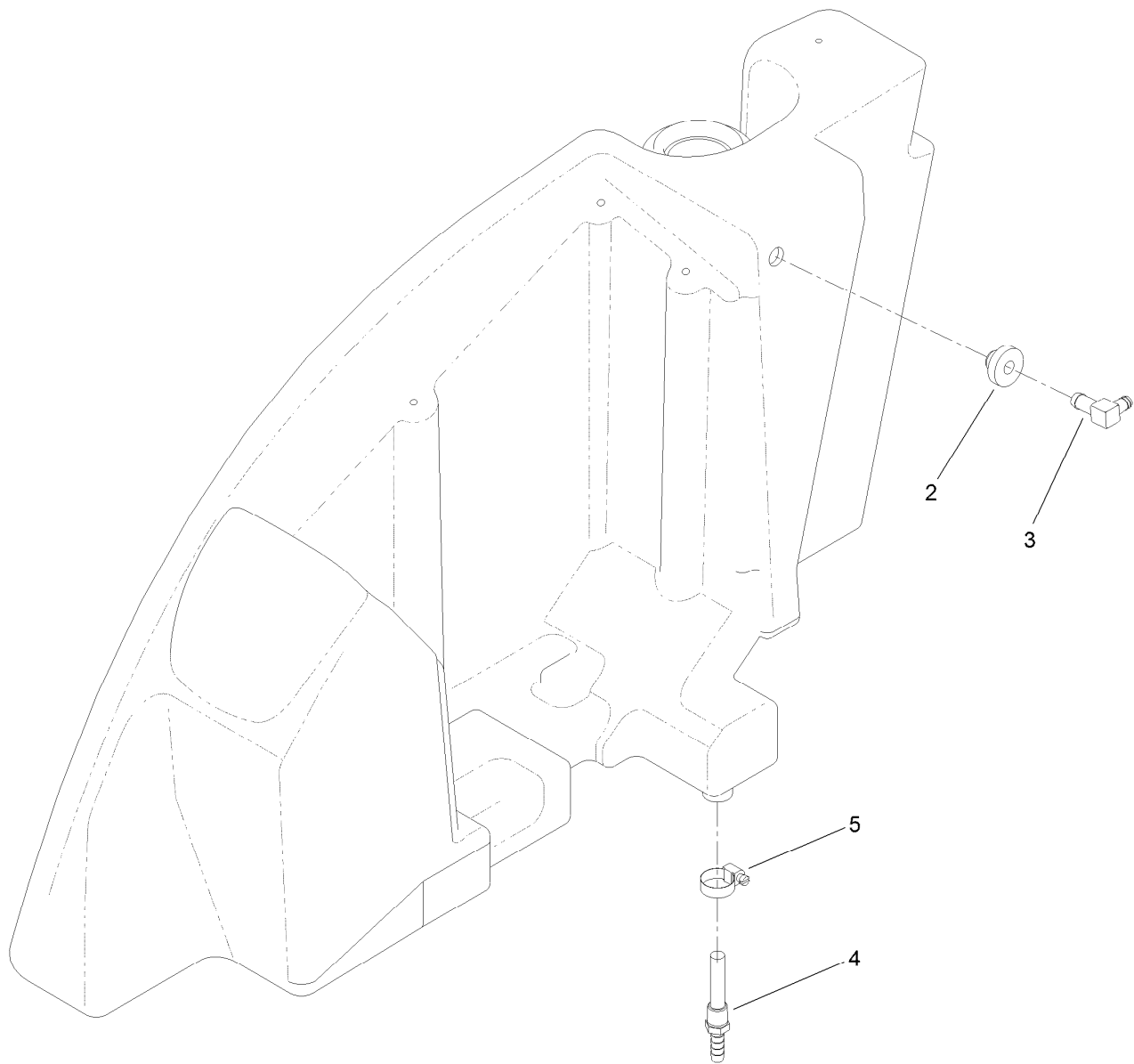
| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 1    | 110-8260    | 1    | Tube-Vent, RH              |
| 2    | 3290-412    | 2    | Rivet-Blind                |
| 3    | 92-2379     | 4    | Clamp-Hose                 |
| 5    | 110-8261    | 1    | Tube-Vent, LH              |
| 6    | 109-0309    | 2    | Hose-Fuel                  |
| 7    | 112-6349    | 6    | Screw-HWH                  |
| 8    | 110-5540-03 | 1    | Cover-Toolbox              |
| 9    | 144-7257    | 1    | Decal-Service Instructions |
| 10   | 32149-8     | 3    | Nut-Keps                   |
| 11   | 115-5305    | 2    | Cap-Fuel                   |
| 12   | 110-8230    | 1    | LH Fuel Tank ASM           |
| 13   | 108-2024    | 1    | Hinge                      |
| 14   | 110-5539    | 1    | Spacer                     |

| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 15   | 95-1905     | 2    | Washer-Rubber    |
| 16   | 105-6814    | 2    | Washer-Plain     |
| 17   | 3256-24     | 2    | Washer-Flat      |
| 18   | 323-39      | 1    | Screw-HH         |
| 19   | 104-8301    | 2    | Nut-HF, NI       |
| 20   | 2412-89     | 2    | Clamp-R          |
| 21   | 322-10      | 4    | Screw-HH         |
| 22   | 112-9561    | 4    | Pad-Foam         |
| 23   | 107-4543    | 4    | Clamp            |
| 24   | 104-8300    | 4    | Nut-HF, NI       |
| 25   | 110-8236    | 1    | RH Fuel Tank ASM |
| 26   | 92-1239     | 1    | Spacer-Support   |
| 27   | 323-13      | 1    | Screw-HH         |



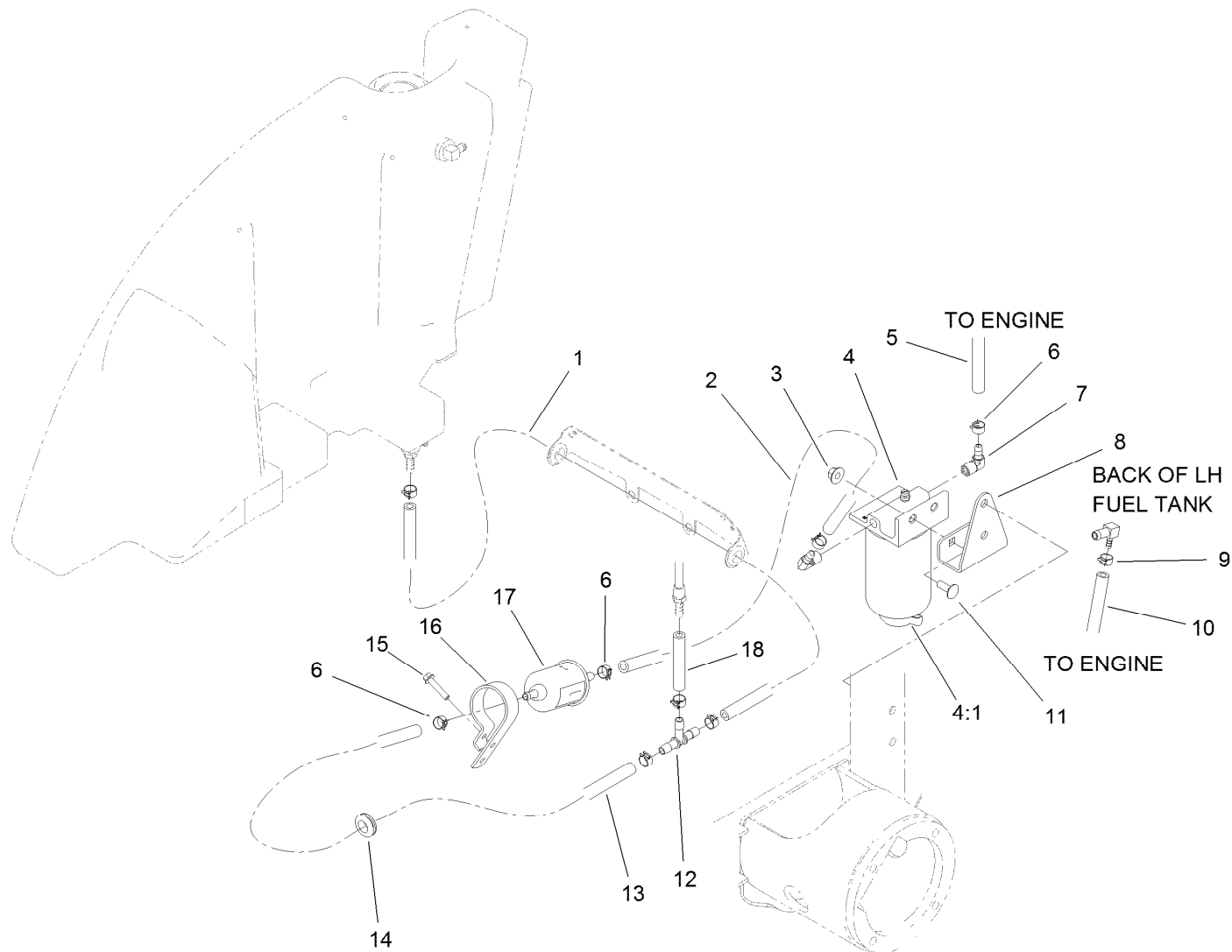
## LH Fuel Tank Assembly No. 110-8230

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 2    | 110-8262    | 1    | Gauge-Fuel            |
| 3    | 95-8972     | 1    | Grommet               |
| 4    | 104-5228    | 1    | Fitting-Elbow, 90 DEG |
| 5    | 46-6560     | 2    | Bushing               |
| 6    | 1-643259    | 1    | Fitting-Elbow         |
| 7    | 112-6374    | 1    | Fitting-Strainer      |
| 8    | 2412-36     | 1    | Clamp-Hose            |



## RH Fuel Tank Assembly No. 110-8236

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 2           | 46-6560            | 1           | Bushing            |
| 3           | 1-643259           | 1           | Fitting-Elbow      |
| 4           | 112-6374           | 1           | Fitting-Strainer   |
| 5           | 2412-36            | 1           | Clamp-Hose         |

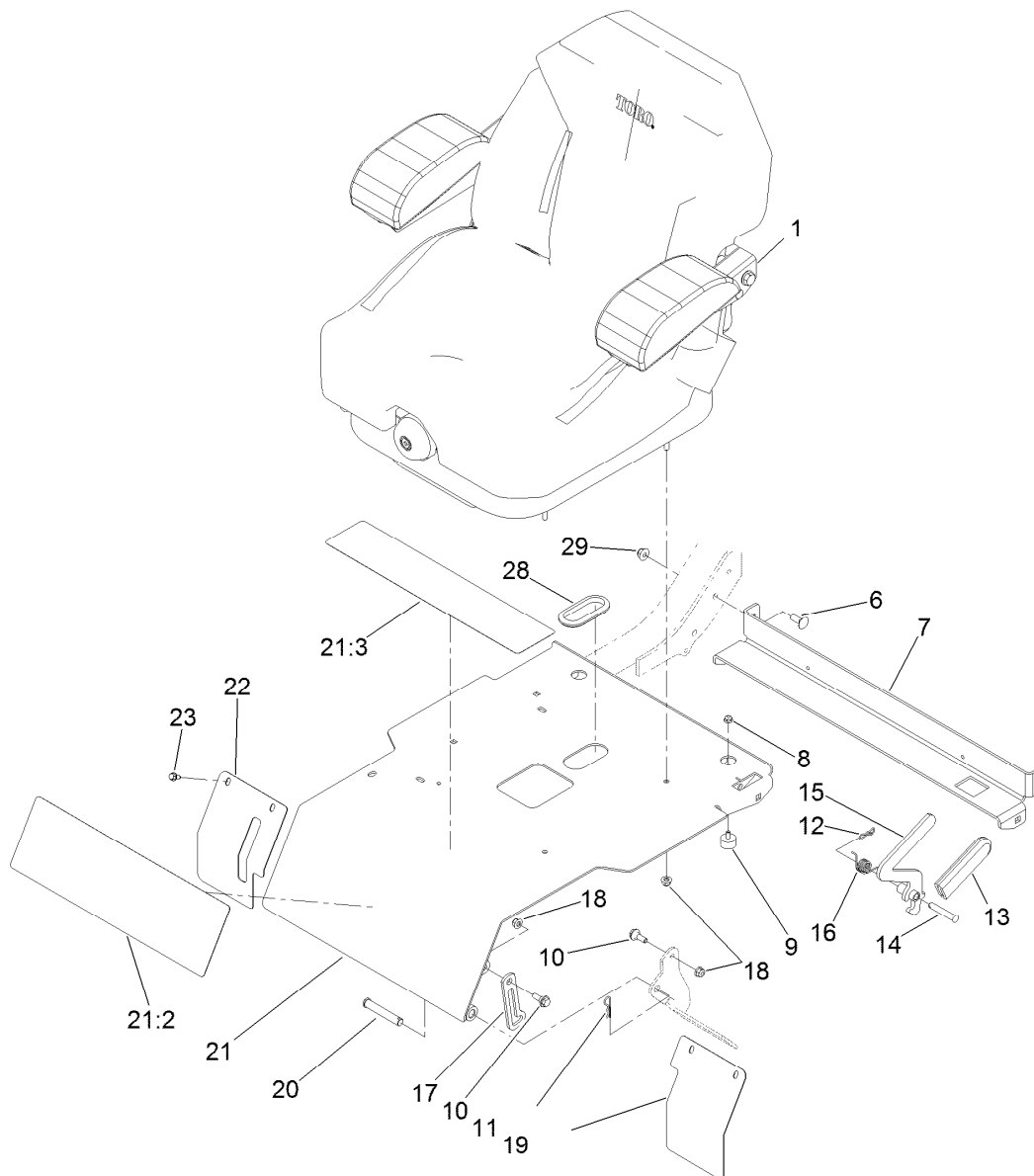


## Fuel Filter/Separator Assembly

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 1    | 110-6186    | 1    | Hose-Fuel                  |
| 2    | 110-8752    | 1    | Hose-Fuel                  |
| 3    | 32128-44    | 2    | Nut                        |
| 4    | 110-9044    | 1    | Separator-Filter           |
| 4:1  | 110-9049    | 1    | Filter-Spin On, Fuel/Water |
| 5    | 110-4104    | 1    | Hose-Fuel                  |
| 6    | 92-2379     | 10   | Clamp-Hose                 |
| 7    | 353-781     | 2    | Fitting-HYD, 90            |
| 8    | 114-4058-0P | 1    | Mount-Separator            |
| 9    | 2412-80     | 2    | Clamp-Hose                 |

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 10   | 110-8255    | 1    | Hose-Fuel          |
| 11   | 3230-10     | 2    | Bolt-CARR          |
| 12   | 354-107     | 1    | Fitting-HYD, Tee   |
| 13   | 114-4028    | 1    | Hose-Fuel          |
| 14   | 32180-030   | 1    | Clip-Tie           |
| 15   | 32144-110   | 1    | Screw-HWH          |
| 16   | 110-8817    | 1    | Bracket-Pump, Fuel |
| 17   | 110-8806    | 1    | Pump-Fuel          |
| 18   | 112-6388    | 1    | Hose-Fuel          |

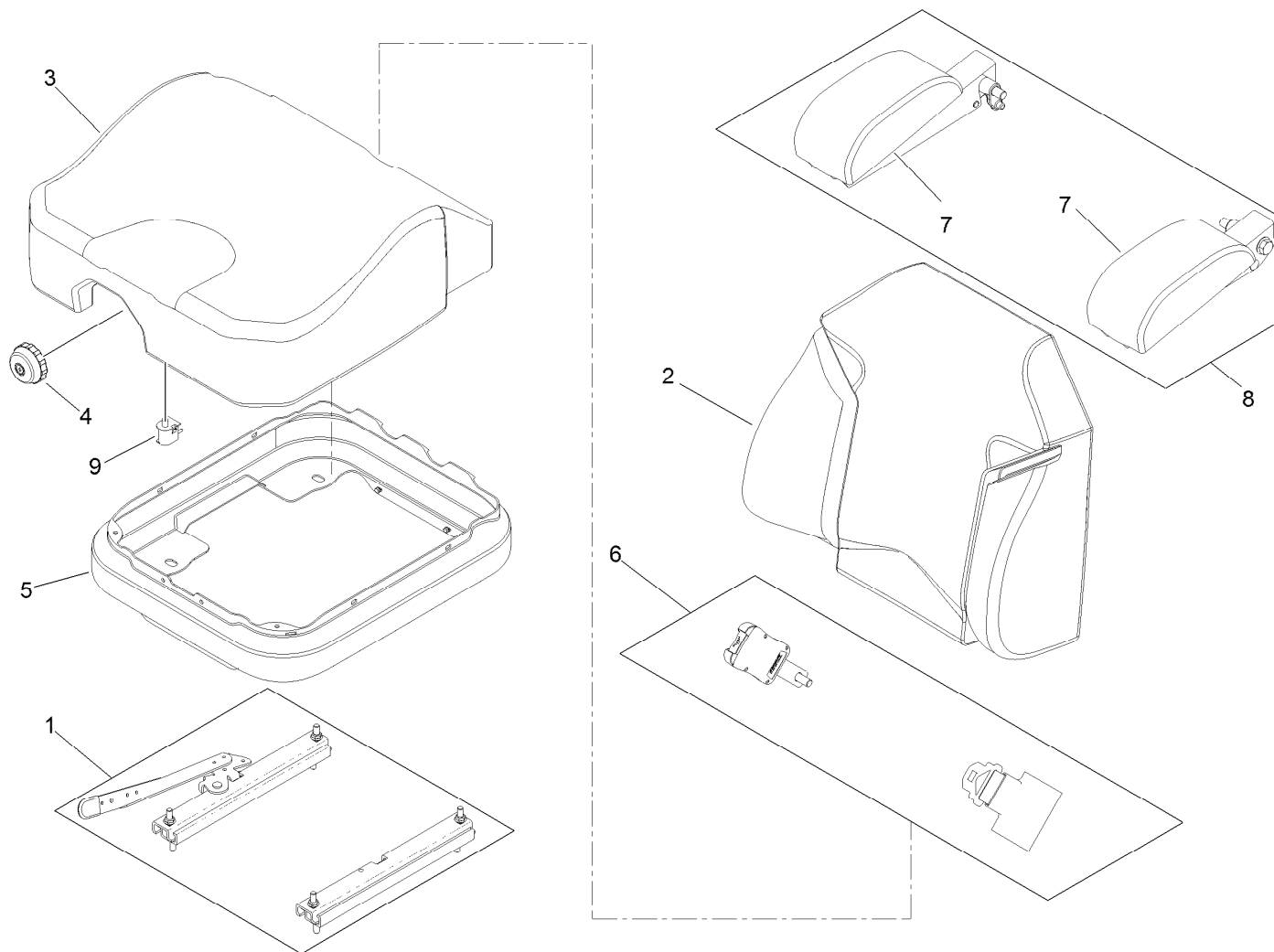




## Seat and Seat Plate Assembly

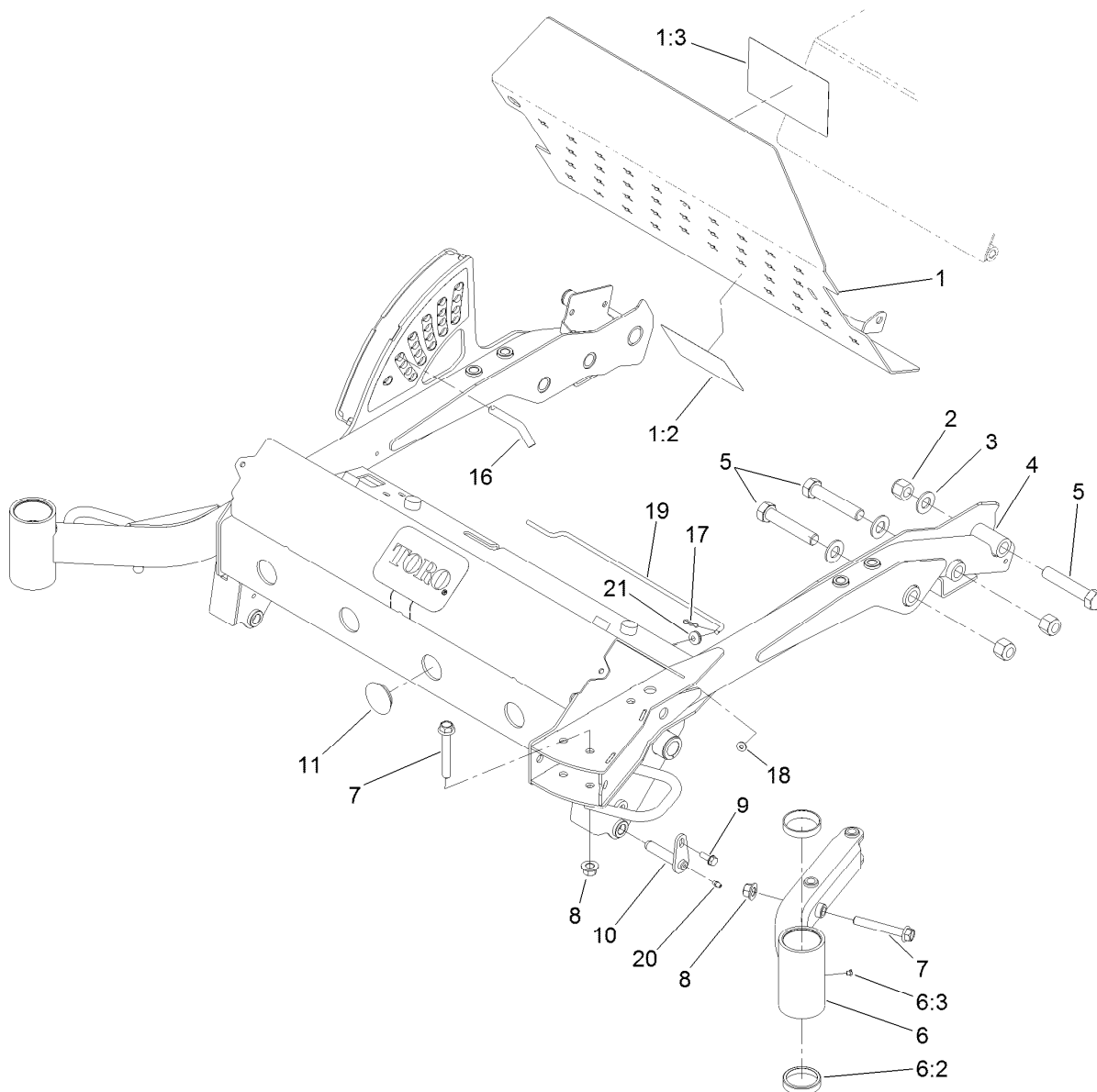
| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 1    | 125-3107    | 1    | Suspension Seat ASM |
| 6    | 3231-2      | 4    | Bolt-CARR           |
| 7    | 120-0095-03 | 1    | Support-Seat        |
| 8    | 104-7201    | 2    | Nut-HF              |
| 9    | 240-14      | 2    | Bumper-Rubber       |
| 10   | 116-2670    | 2    | Screw-Shoulder      |
| 11   | 3290-467    | 2    | Pin-Hair            |
| 12   | 119-1415    | 1    | Pin-Cotter, Locking |
| 13   | 1-633268    | 1    | Grip-Lever          |
| 14   | 138-8239    | 1    | Pin-Clevis          |
| 15   | 140-7053    | 1    | Lever-Seat          |
| 16   | 121-3386    | 1    | Spring-Torsion      |

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 17   | 130-8754    | 1    | Prop-Seat               |
| 18   | 104-8300    | 6    | Nut-HF, NI              |
| 19   | 130-8767-03 | 1    | Cover-LH                |
| 20   | 283-55      | 2    | Pin-Clevis              |
| 21   | 130-8749    | 1    | Plate-Seat              |
| 21:2 | 120-9195    | 1    | Decal-Safety            |
| 21:3 | 120-9196    | 1    | Decal-Console, Top (CE) |
| 22   | 130-8768-03 | 1    | Cover-RH                |
| 23   | 32144-10    | 4    | Screw-HWH               |
| 28   | 237-164     | 1    | Grommet                 |
| 29   | 104-8301    | 4    | Nut-HF, NI              |



## Seat Assembly No. 125-3107

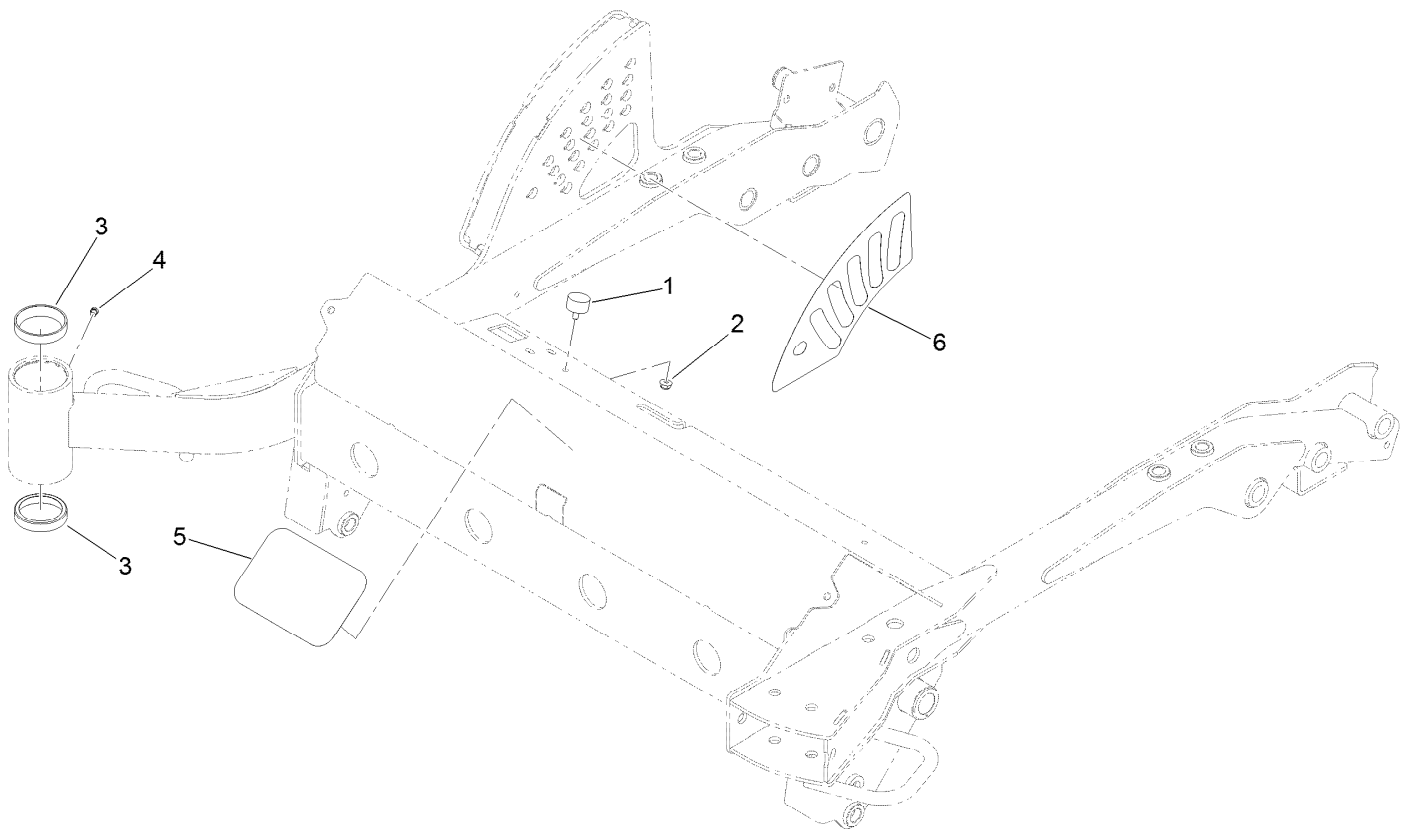
| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 1    | 116-8910    | 1    | Seat Track Set           |
| 2    | 125-3112    | 1    | Cover-Back               |
| 3    | 125-3111    | 1    | Cover-Cushion            |
| 4    | 116-8911    | 1    | Knob-Adjuster            |
| 5    | 116-5659    | 1    | Cover-Suspension Bellows |
| 6    | 126-2061    | 1    | Seat Belt Service Kit    |
| 7    | 109-9802    | 1    | Arm Rest Pad Set         |
| 8    | 109-9803    | 1    | Arm Rest Set             |
| 9    | 82-2190     | 1    | Switch-Bail              |



## Floorplate and Carrier Frame Assembly

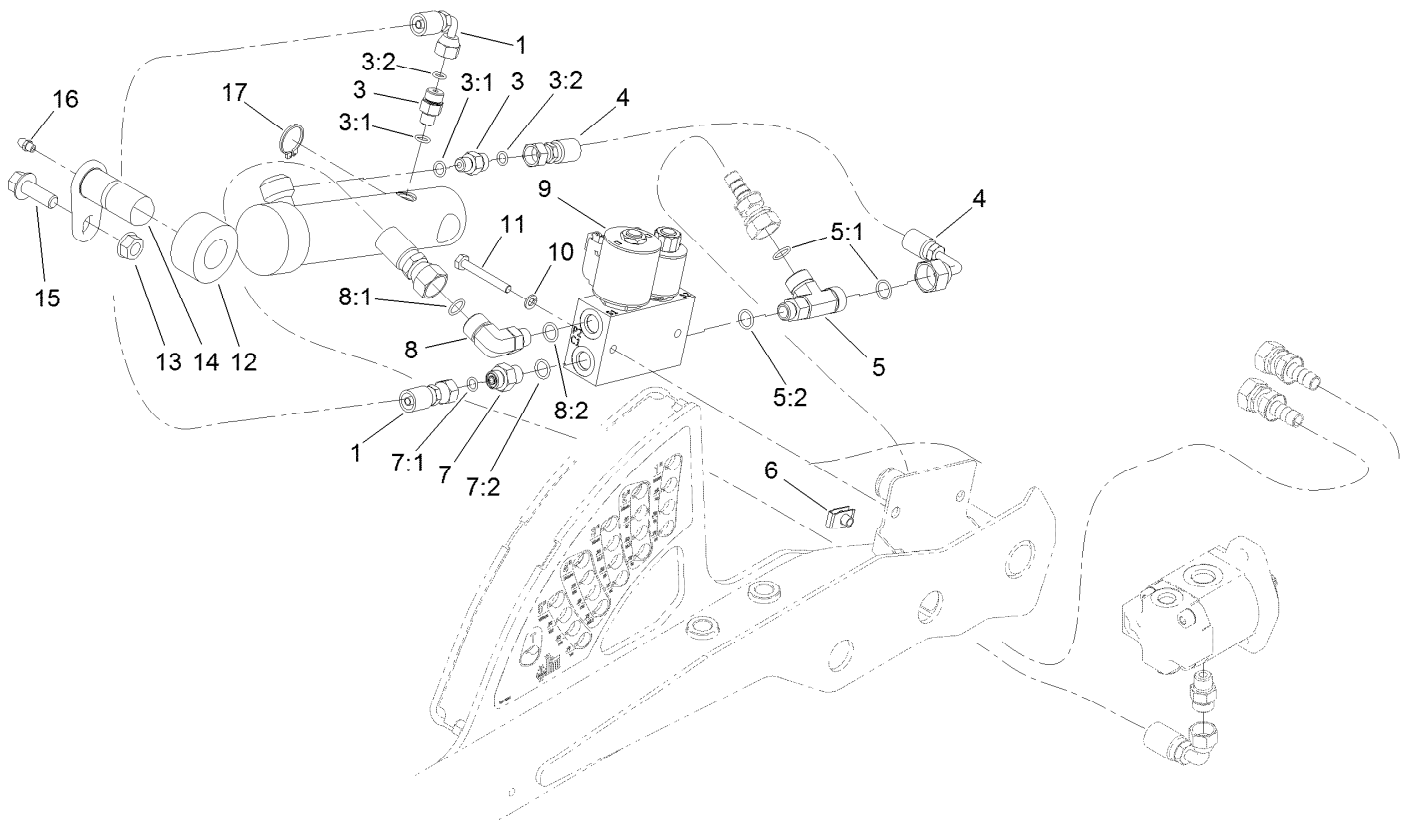
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 1    | 120-9165    | 1    | Floorplate ASM       |
| 1:2  | 112-1461    | 1    | Decal-Routing, Belt  |
| 1:3  | 107-1866    | 1    | Decal-Danger, Slope  |
| 2    | 3296-51     | 5    | Nut-Lock, NI         |
| 3    | 92-5836     | 5    | Washer               |
| 4    | 136-4466    | 1    | Carrier Frame ASM    |
| 5    | 328-7       | 5    | Screw-HH             |
| 6    | 121-3340    | 1    | Castor Arm ASM       |
| 6:2  | 254-107     | 2    | Cup-Bearing, Tapered |
| 6:3  | 1-811010    | 1    | Plug                 |
| 7    | 114-8419    | 3    | Screw-HHF            |

| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 8    | 99-5107     | 3    | Nut-Lock            |
| 9    | 32144-41    | 2    | Screw-Taptite       |
| 10   | 112-1602    | 2    | Pin-Retainer        |
| 11   | 121-3397    | 4    | Plug-Grommet        |
| 16   | 112-9544    | 1    | Pin-HOC             |
| 17   | 119-1414    | 1    | Pin-Cotter, Locking |
| 18   | 3256-22     | 1    | Washer-Flat         |
| 19   | 110-9847    | 1    | Rod-Prop            |
| 20   | 302-5       | 2    | Fitting-Grease      |
| 21   | 237-141     | 1    | Grommet-Rubber      |



## Carrier Frame Assembly No. 136-4466

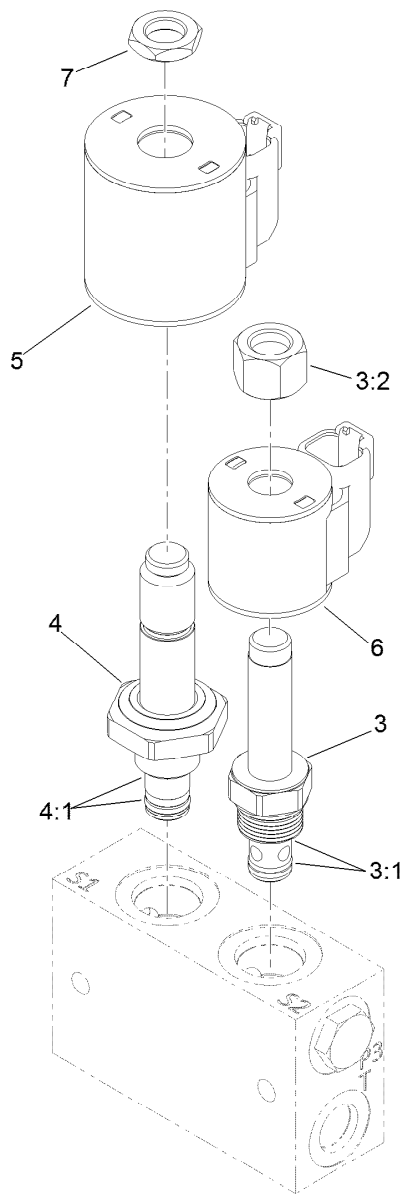
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 1    | 240-14      | 4    | Bumper-Rubber        |
| 2    | 104-7201    | 4    | Nut-HF               |
| 3    | 254-107     | 2    | Cup-Bearing, Tapered |
| 4    | 1-811010    | 1    | Plug                 |
| 5    | 99-4693     | 1    | Decal                |
| 6    | 127-6519    | 1    | Decal-HOC            |



## Lift Valve and Cylinder Assembly

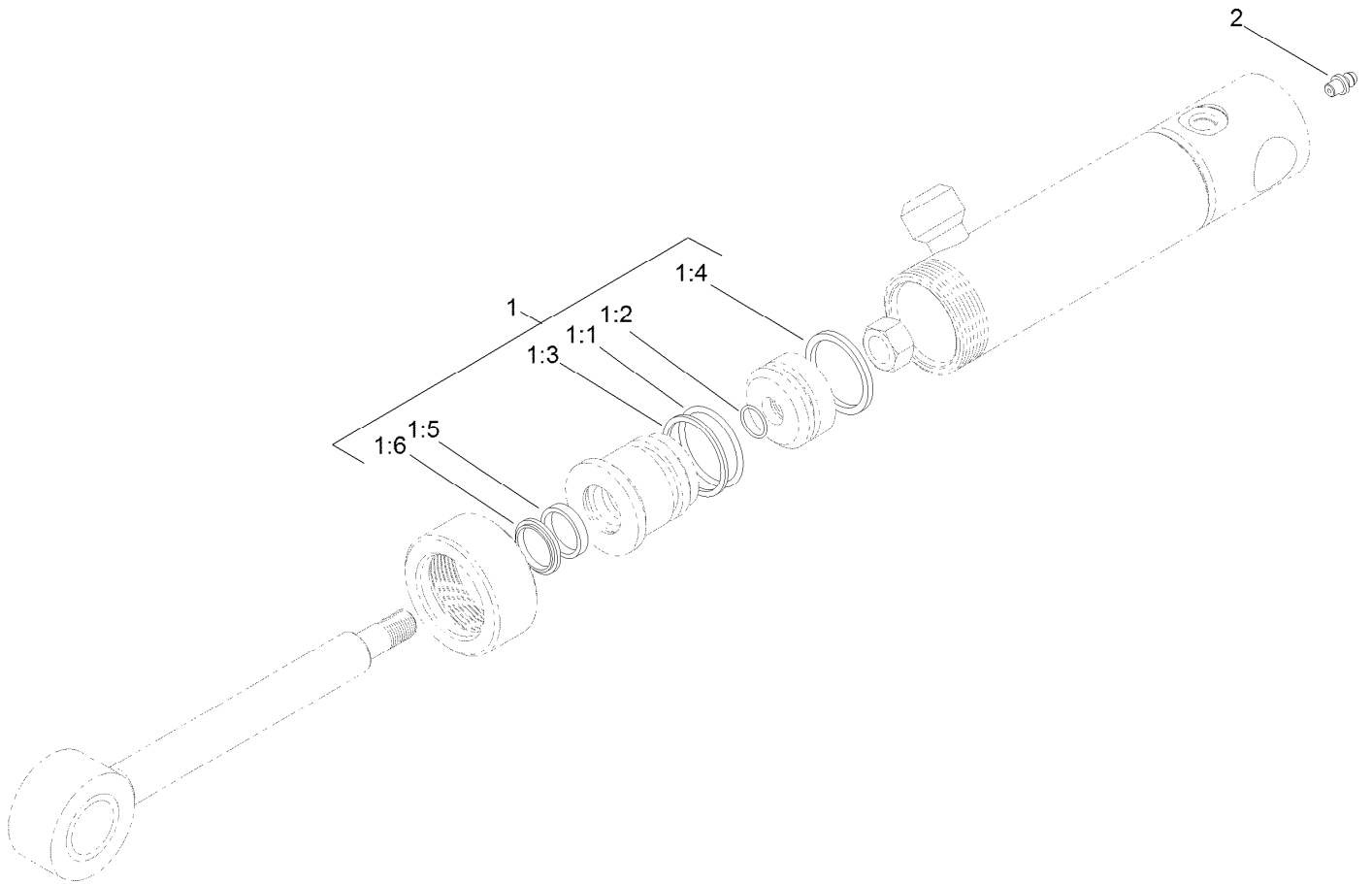
| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 1    | 127-4908    | 1    | Hose-HYD         |
| 3    | 340-92      | 2    | Fitting-Straight |
| 3:1  | 237-78      | 1    | O-Ring           |
| 3:2  | 237-21      | 1    | O-Ring           |
| 4    | 127-4909    | 1    | Hose-HYD         |
| 5    | 110-0064    | 1    | Fitting-Tee      |
| 5:1  | 237-30      | 2    | O-Ring           |
| 5:2  | 237-42      | 1    | O-Ring           |
| 6    | 107069      | 2    | Clip             |
| 7    | 340-1       | 1    | Fitting-Straight |
| 7:1  | 237-21      | 1    | O-Ring           |
| 7:2  | 237-42      | 1    | O-Ring           |

| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 8    | 340-99      | 1    | Fitting-HYD, 90 DEG |
| 8:1  | 237-30      | 1    | O-Ring              |
| 8:2  | 237-42      | 1    | O-Ring              |
| 9    | 131-1934    | 1    | Deck Lift Valve ASM |
| 10   | 3253-3      | 2    | Washer-Lock         |
| 11   | 321-11      | 2    | Screw-HH            |
| 12   | 110-9834    | 1    | HYD Cylinder ASM    |
| 13   | 32128-37    | 1    | Nut-HF              |
| 14   | 125-1910    | 1    | Pin-Pivot           |
| 15   | 3234-15     | 1    | Screw-HHF           |
| 16   | 302-5       | 1    | Fitting-Grease      |
| 17   | 32151-36    | 1    | Ring-Retaining      |



## Valve Assembly No. 131-1934

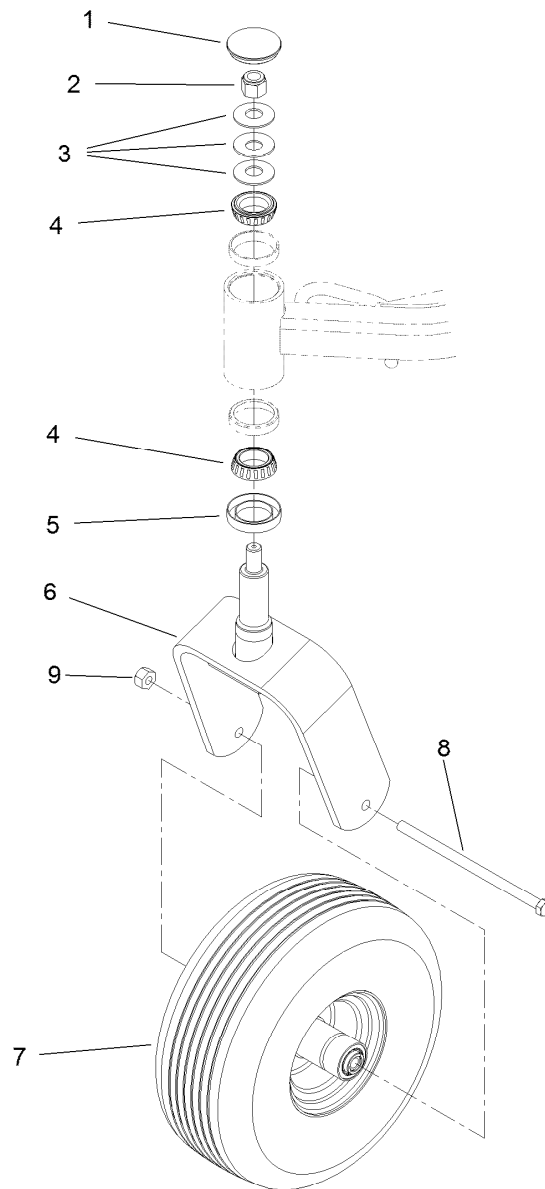
| Ref. | Part Number | Qty. | Description    |
|------|-------------|------|----------------|
| 3    | 107-7517    | 1    | Valve-Solenoid |
| 3:1  | 105-9156    | 1    | Seal Kit       |
| 3:2  | 107-7812    | 1    | Nut-Solenoid   |
| 4    | 131-1935    | 1    | Valve-Solenoid |
| 4:1  | 107-7527    | 1    | Seal Kit       |
| 5    | 115-3021    | 1    | Coil-12V       |
| 6    | 119-8036    | 1    | Coil           |
| 7    | 110-2634    | 1    | Nut-Coil       |



## Hydraulic Cylinder Assembly No. 110-9834

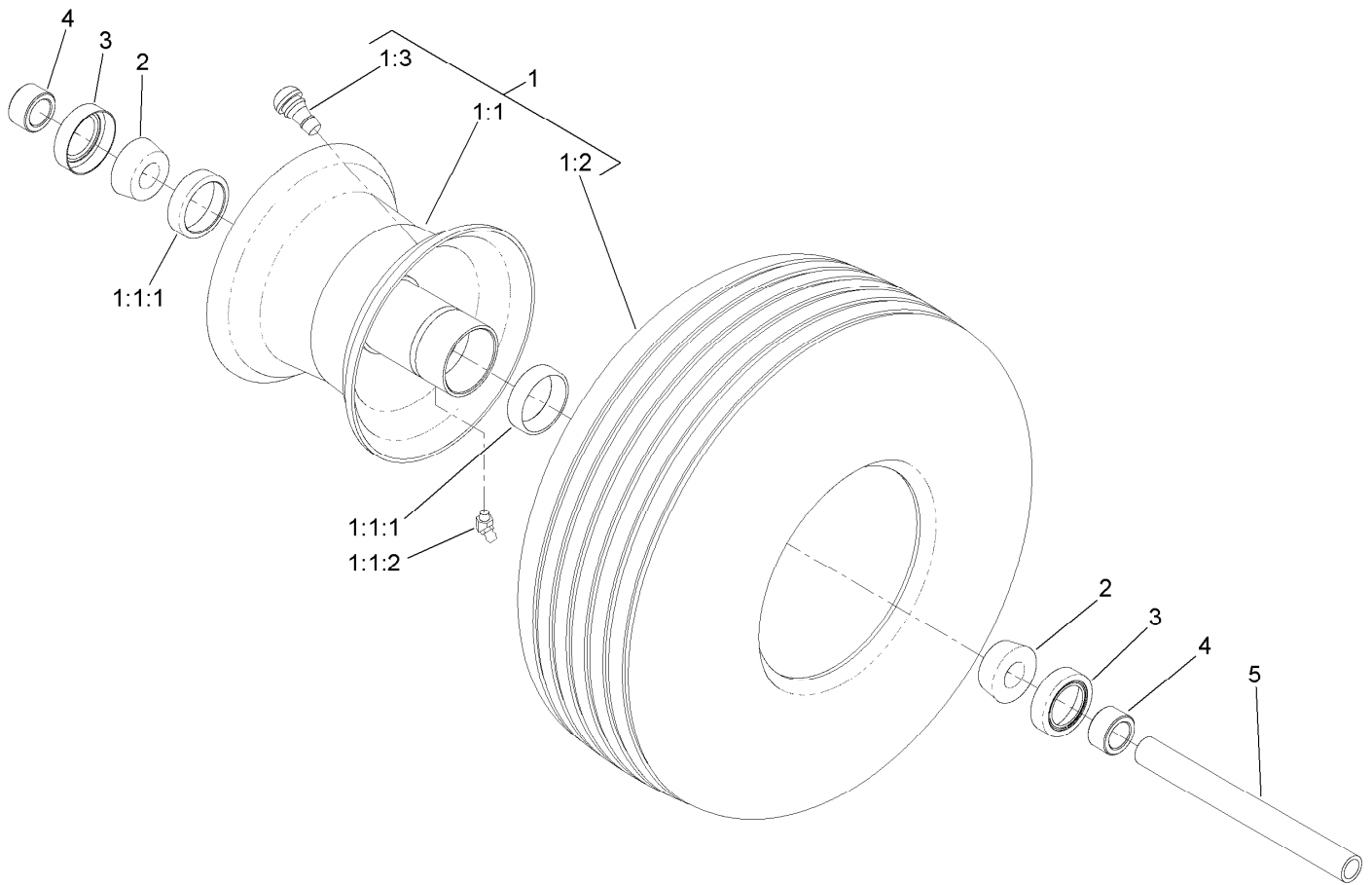
| Ref. | Part Number | Qty. | Description    |
|------|-------------|------|----------------|
| 1    | 112-6353    | 1    | Seal Kit       |
| 1:1  |             | 1    | O-Ring ●       |
| 1:2  |             | 1    | O-Ring ●       |
| 1:3  |             | 1    | Backup ●       |
| 1:4  |             | 1    | Seal-Bp ●      |
| 1:5  |             | 1    | Seal-Rod ●     |
| 1:6  |             | 1    | Seal-Dust ●    |
| 2    | 302-60      | 1    | Fitting-Grease |

● Not serviced separately



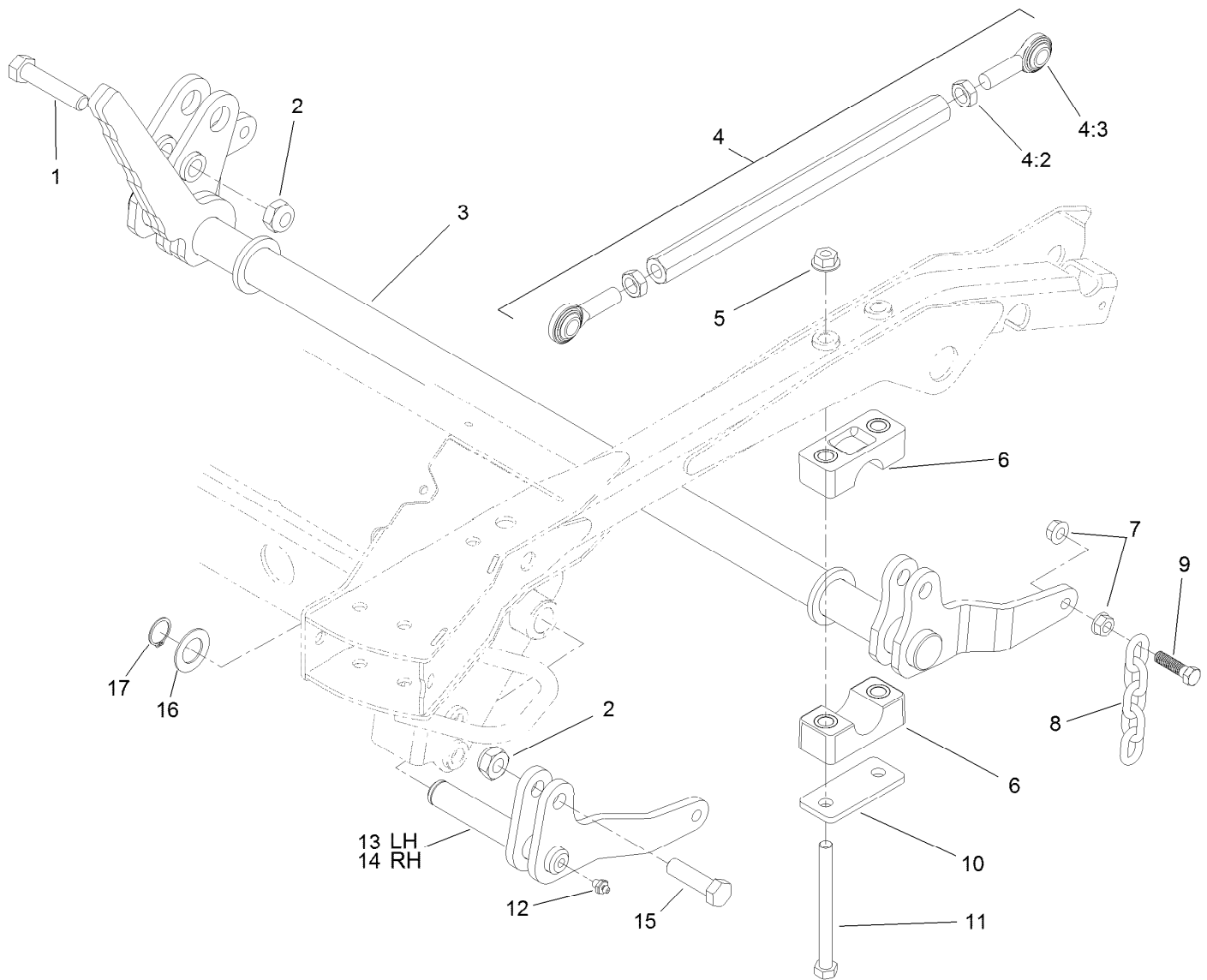
## Caster Wheel Assembly

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 108-9950    | 2    | Cap-Grease            |
| 2    | 3296-51     | 2    | Nut-Lock, NI          |
| 3    | 108-9957    | 6    | Washer-Belleville     |
| 4    | 254-106     | 4    | Cone-Bearing, Tapered |
| 5    | 69-2980     | 2    | Seal                  |
| 6    | 108-9946-03 | 2    | Fork-Caster           |
| 7    | 133-4723    | 2    | Caster Wheel ASM      |
| 8    | 325-39      | 2    | Screw-HH              |
| 9    | 3296-25     | 2    | Nut-Lock, NI          |



## Caster Wheel Assembly No. 133-4723

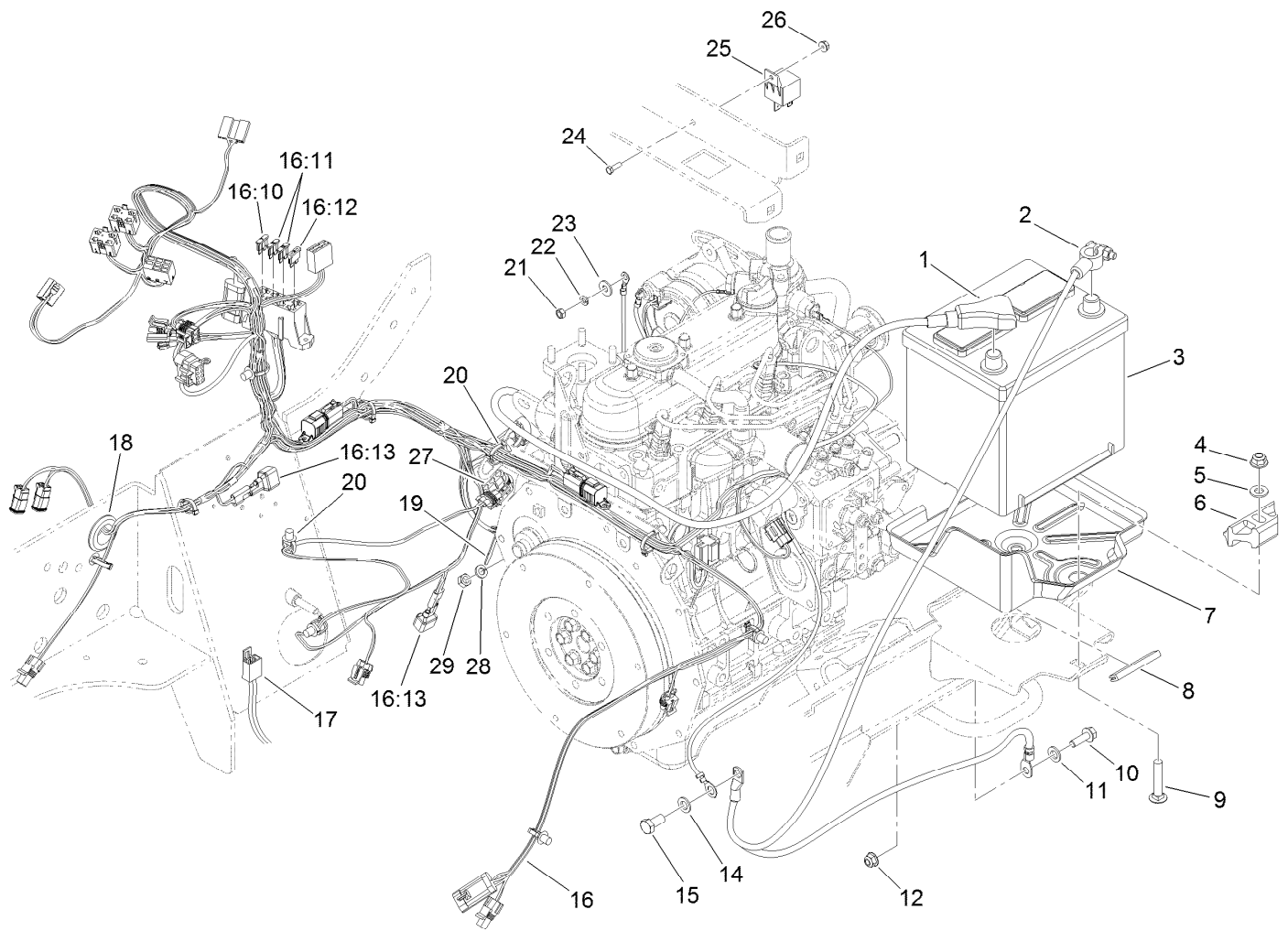
| Ref.  | Part Number | Qty. | Description          |
|-------|-------------|------|----------------------|
| 1     | 133-4730    | 1    | Tire And Wheel ASM   |
| 1:1   | 133-4725    | 1    | Wheel                |
| 1:1:1 | 1-633584    | 2    | Bearing-Cup          |
| 1:1:2 | 302-11      | 1    | Fitting-Lube, 45 DEG |
| 1:2   | 133-4724    | 1    | Tire                 |
| 1:3   | 5108        | 1    | Valve                |
| 2     | 1-633585    | 2    | Bearing-Cone, Taper  |
| 3     | 1-633580    | 2    | Seal-Bearing         |
| 4     | 1-633581    | 2    | Spacer-Bearing       |
| 5     | 138-1933    | 1    | Spacer, Front Caster |



## Deck Lift Assembly

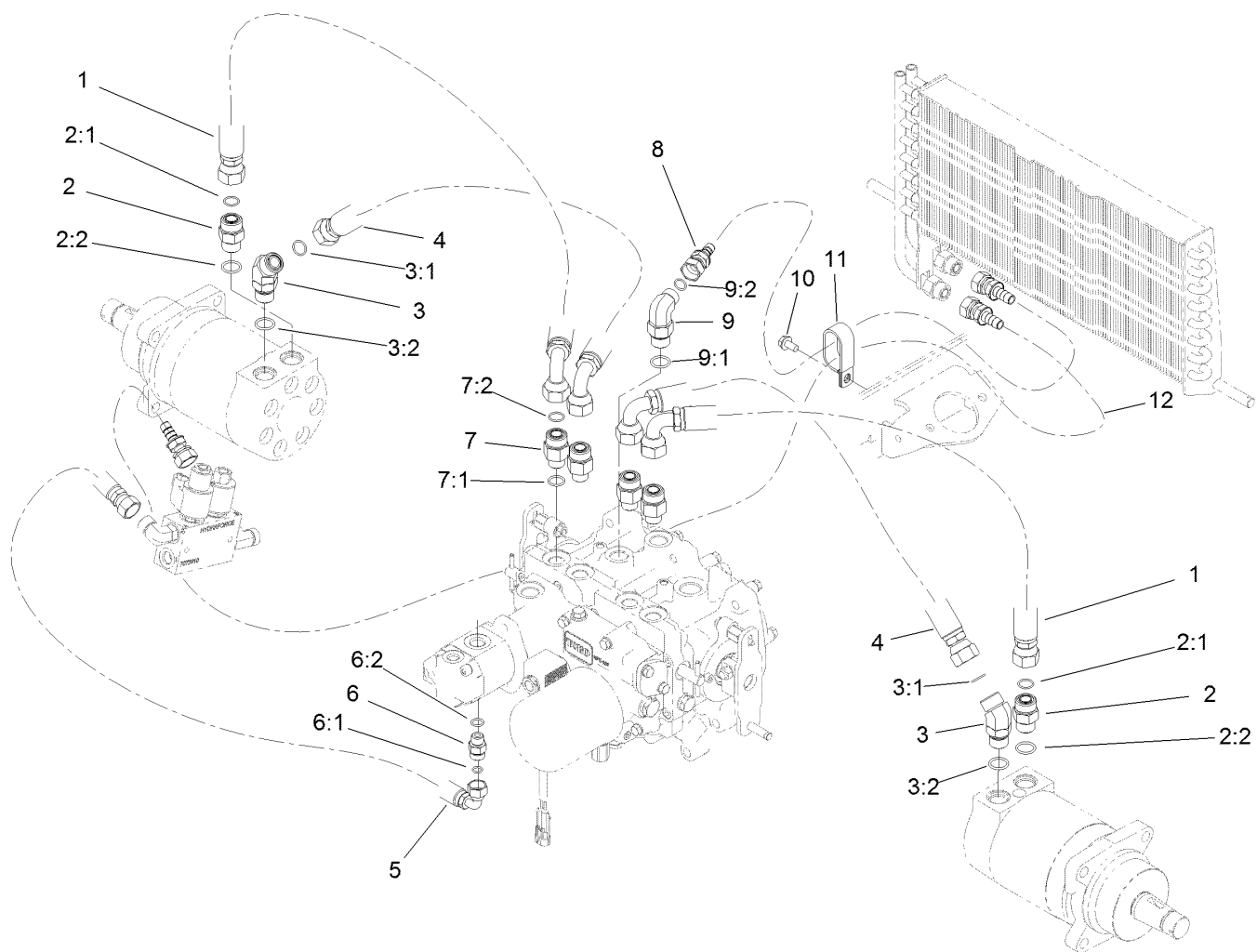
| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 1    | 104-5895    | 1    | Screw-HH            |
| 2    | 3296-61     | 4    | Nut-Lock            |
| 3    | 140-7073    | 1    | Lift Shaft ASM      |
| 4    | 114-4059    | 2    | Link ASM            |
| 4:2  | 3220-6      | 2    | Nut-Jam             |
| 4:3  | 1-633029    | 2    | Balljoint-Spherical |
| 5    | 32128-49    | 4    | Nut-HHF             |
| 6    | 115-0491    | 4    | Cap-Bearing         |
| 7    | 32128-37    | 8    | Nut-HF              |
| 8    | 1-633447    | 4    | Chain-Lift, Deck    |

| Ref. | Part Number | Qty. | Description    |
|------|-------------|------|----------------|
| 9    | 103-1898    | 4    | Screw-HH       |
| 10   | 117-2903    | 2    | Plate-Bearing  |
| 11   | 325-22      | 4    | Screw-HH       |
| 12   | 302-2       | 2    | Fitting-Grease |
| 13   | 110-9818-03 | 1    | Lift-LH        |
| 14   | 110-9820-03 | 1    | Lift-RH        |
| 15   | 327-22      | 3    | Screw-HH       |
| 16   | 69-9010     | 2    | Washer         |
| 17   | 32151-29    | 2    | Ring-Retaining |



## Electrical Assembly

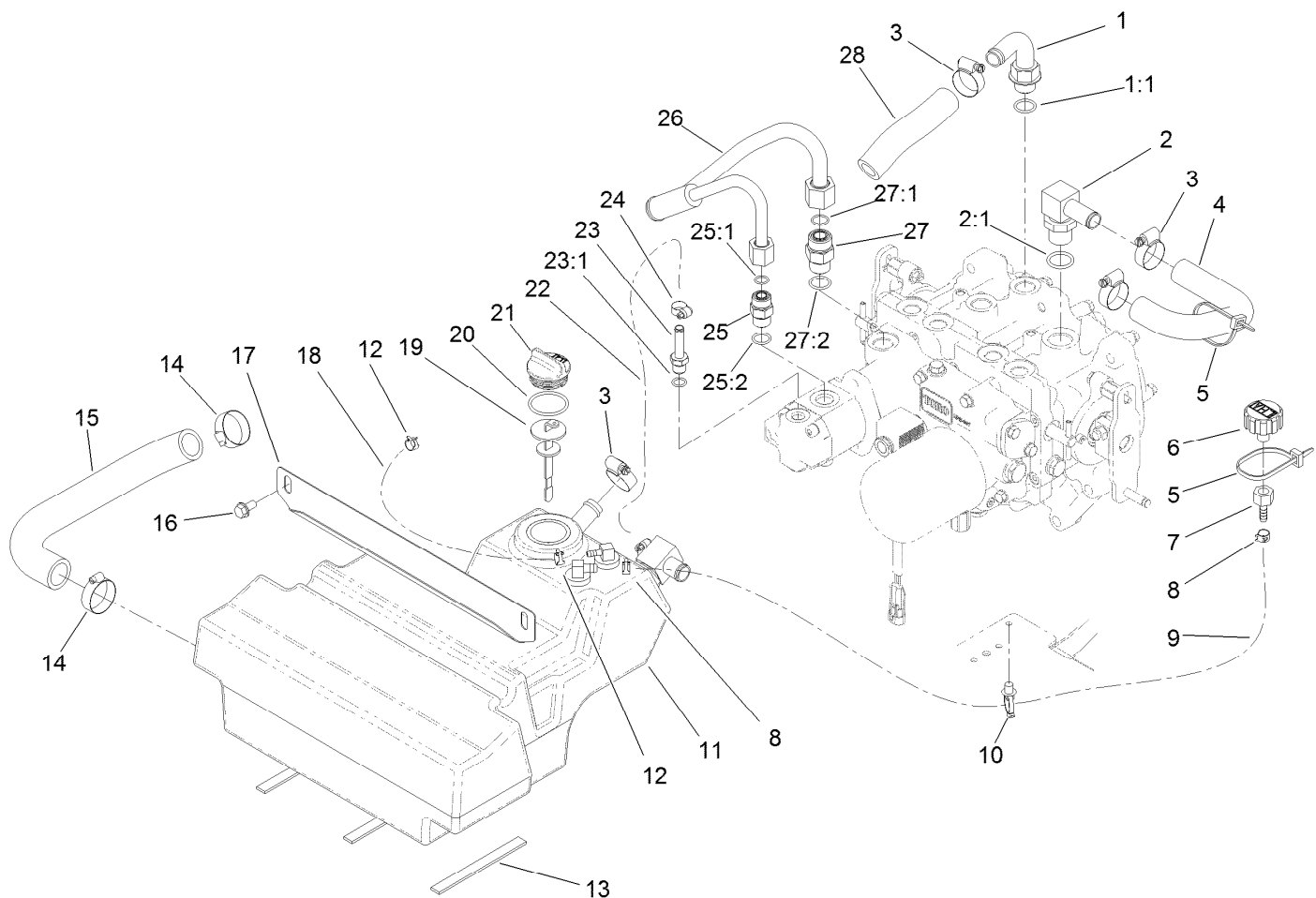
| Ref.  | Part Number | Qty. | Description                      | Ref.  | Part Number | Qty. | Description                |
|-------|-------------|------|----------------------------------|-------|-------------|------|----------------------------|
| 1     | 119-1796    | 1    | Cable-Battery, Positive          | 16:11 | 218-578     | 2    | Fuse-Blade, 10 Amp         |
| 2     | 105-0040    | 1    | Cable-Battery, Negative          | 16:12 | 109355      | 1    | Fuse-Blade, 15 Amp         |
| 3     | 106-5187    | 1    | Battery, 525 CCA W/O Electrolyte | 16:13 | 100-4918    | 2    | Diode                      |
| 4     | 104-8301    | 1    | Nut-HF, NI                       | 17    | 108-8657    | 1    | Harness-Wire, Seat         |
| 5     | 3256-24     | 1    | Washer-Flat                      | 18    | 237-165     | 1    | Grommet                    |
| 6     | 138-6335    | 1    | Retainer-Battery                 | 19    | 3290-378    | 2    | Tie-Cable                  |
| 7     | 133-4913    | 1    | Tray-Battery                     | 20    | 32180-030   | 2    | Clip-Tie                   |
| 8     | 110-8276    | 1    | Trim-Hold Down, Battery          | 21    | 33013-00    | 1    | Nut-Hex                    |
| 9     | 3231-6      | 1    | Screw-CARR                       | 22    | 43-5930     | 1    | Washer-Lock, Spring        |
| 10    | 322-4       | 1    | Screw-HH                         | 23    | 3256-2      | 1    | Washer-Flat                |
| 11    | 120-9683    | 1    | Washer-Plain                     | 24    | 3290-134    | 1    | Screw                      |
| 12    | 104-8300    | 1    | Nut-HF, NI                       | 25    | 99-7435     | 1    | Relay                      |
| 14    | 33095-00    | 1    | Washer-Flat                      | 26    | 3290-148    | 1    | Nut-HF                     |
| 15    | 63-7790     | 1    | Screw-Cap                        | 27    | 99-3441     | 1    | Harness-Wire, Fusible Link |
| 16    | 122-1414    | 1    | Harness-Wire                     | 28    | 3253-4      | 1    | Washer-Lock                |
| 16:10 | 94-6710     | 1    | Fuse-2 Amp                       | 29    | 33014-00    | 1    | Nut-Hex                    |



## Transmission and Oil Cooler Hydraulic Assembly

| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 1    | 112-1683    | 2    | Hose                |
| 2    | 340-7       | 2    | Fitting-Straight    |
| 2:1  | 237-65      | 1    | O-Ring              |
| 2:2  | 237-80      | 1    | O-Ring              |
| 3    | 340-14      | 2    | Fitting-HYD, 45 DEG |
| 3:1  | 237-65      | 1    | O-Ring              |
| 3:2  | 237-80      | 1    | O-Ring              |
| 4    | 110-5518    | 2    | Hose                |
| 5    | 127-4910    | 1    | Hose-HYD            |
| 6    | 340-2       | 1    | Fitting-Straight    |
| 6:1  | 237-22      | 1    | O-Ring              |

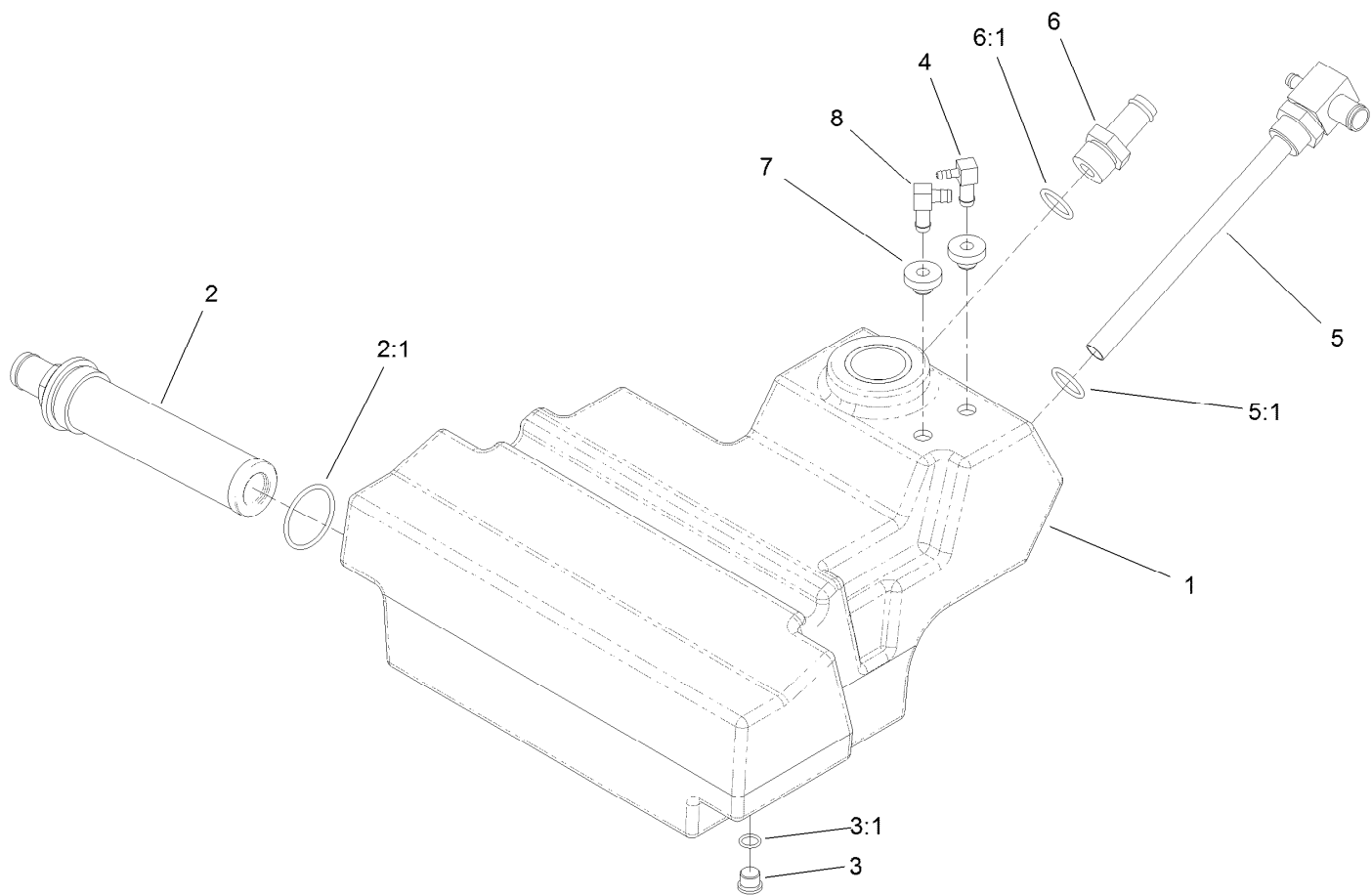
| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 6:2  | 237-42      | 1    | O-Ring                |
| 7    | 340-155     | 4    | Fitting-Straight      |
| 7:1  | 237-79      | 1    | O-Ring                |
| 7:2  | 237-151     | 1    | O-Ring                |
| 8    | 110-5542    | 1    | Hose-HYD              |
| 9    | 340-105     | 1    | Fitting-Elbow, 90 DEG |
| 9:1  | 237-80      | 1    | O-Ring                |
| 9:2  | 237-30      | 1    | O-Ring                |
| 10   | 32144-14    | 1    | Screw-HWHTF           |
| 11   | 2412-137    | 1    | Clamp-R, Double       |
| 12   | 110-5543    | 1    | Hose-HYD              |



## Hydraulic Reservoir Assembly

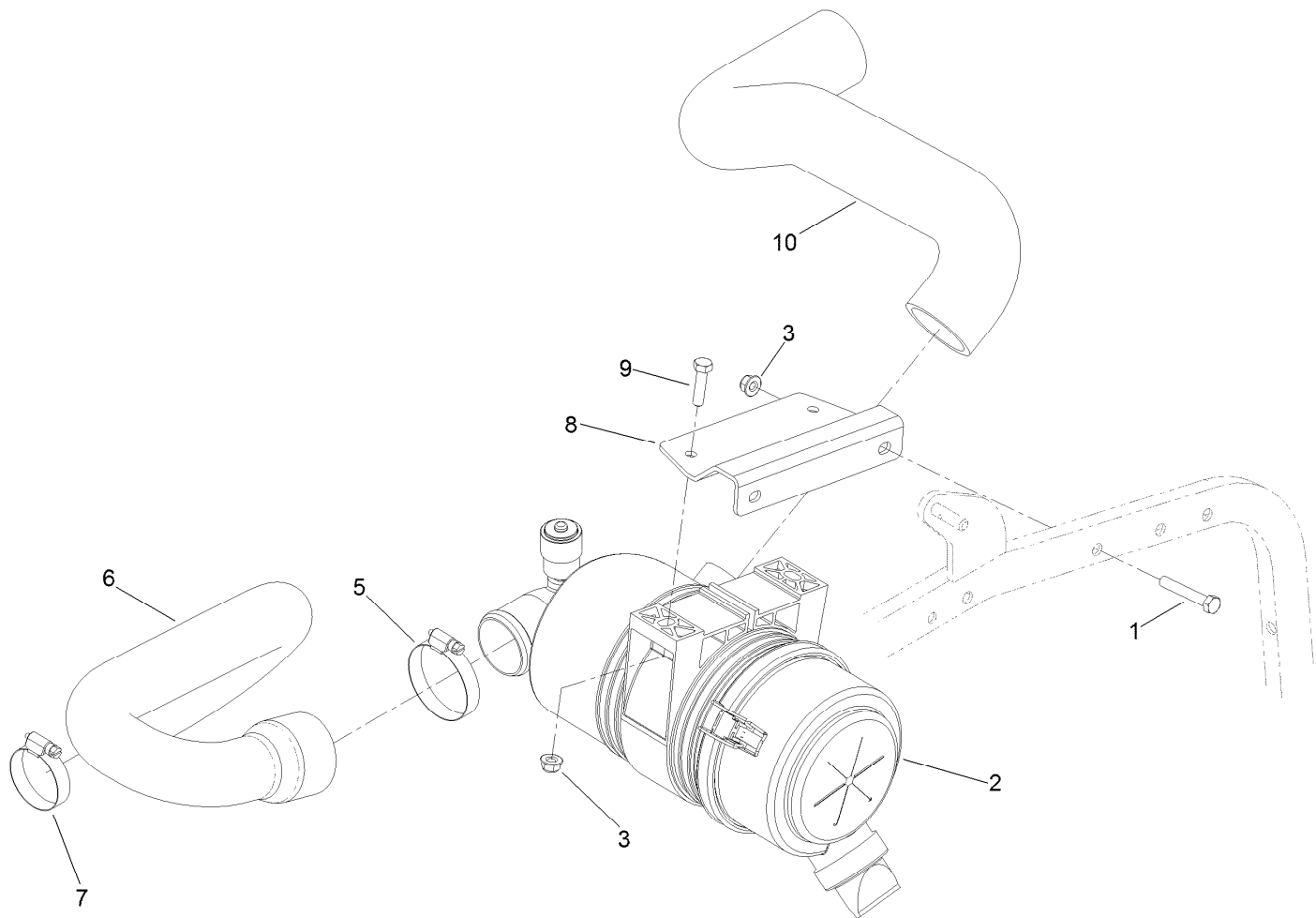
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 1    | 110-5522    | 1    | Fitting-Elbow, 90 |
| 1:1  | 237-80      | 1    | O-Ring            |
| 2    | 353-987     | 1    | Fitting-Elbow, 90 |
| 2:1  | 237-81      | 1    | O-Ring            |
| 3    | 2412-129    | 4    | Clamp-Hose        |
| 4    | 110-5524    | 1    | Hose-Return       |
| 5    | 3290-379    | 2    | Tie-Cable         |
| 6    | 68-6150     | 1    | Breather          |
| 7    | 354-95      | 1    | Fitting-Straight  |
| 8    | 92-2379     | 2    | Clamp-Hose        |
| 9    | 110-9662    | 1    | Hose-Fuel         |
| 10   | 32180-030   | 1    | Clip-Tie          |
| 11   | 110-8237    | 1    | HYD Reservoir ASM |
| 12   | 2412-98     | 2    | Clamp-Hose        |
| 13   | 120-0017    | 3    | Strip-Foam        |
| 14   | 2412-34     | 2    | Clamp-Hose        |
| 15   | 110-5526    | 1    | Hose-Suction      |
| 16   | 32144-14    | 2    | Screw-HWHTF       |

| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 17   | 110-5529-0P | 1    | Support-Reservoir |
| 18   | 109-0299    | 1    | Hose-Fuel         |
| 19   | 112-6365    | 1    | Dipstick          |
| 20   | 94-8166     | 1    | O-Ring            |
| 21   | 93-7498     | 1    | Plug-Plastic      |
| 22   | 94-5625     | 1    | Hose              |
| 23   | 353-979     | 1    | Fitting-STR       |
| 23:1 | 237-42      | 1    | O-Ring            |
| 24   | 2412-108    | 2    | Clamp-Worm        |
| 25   | 340-4       | 1    | Fitting-Straight  |
| 25:1 | 237-30      | 1    | O-Ring            |
| 25:2 | 237-79      | 1    | O-Ring            |
| 26   | 110-5532    | 1    | Tube              |
| 27   | 340-7       | 1    | Fitting-Straight  |
| 27:1 | 237-65      | 1    | O-Ring            |
| 27:2 | 237-80      | 1    | O-Ring            |
| 28   | 112-1680    | 1    | Hose-HYD          |



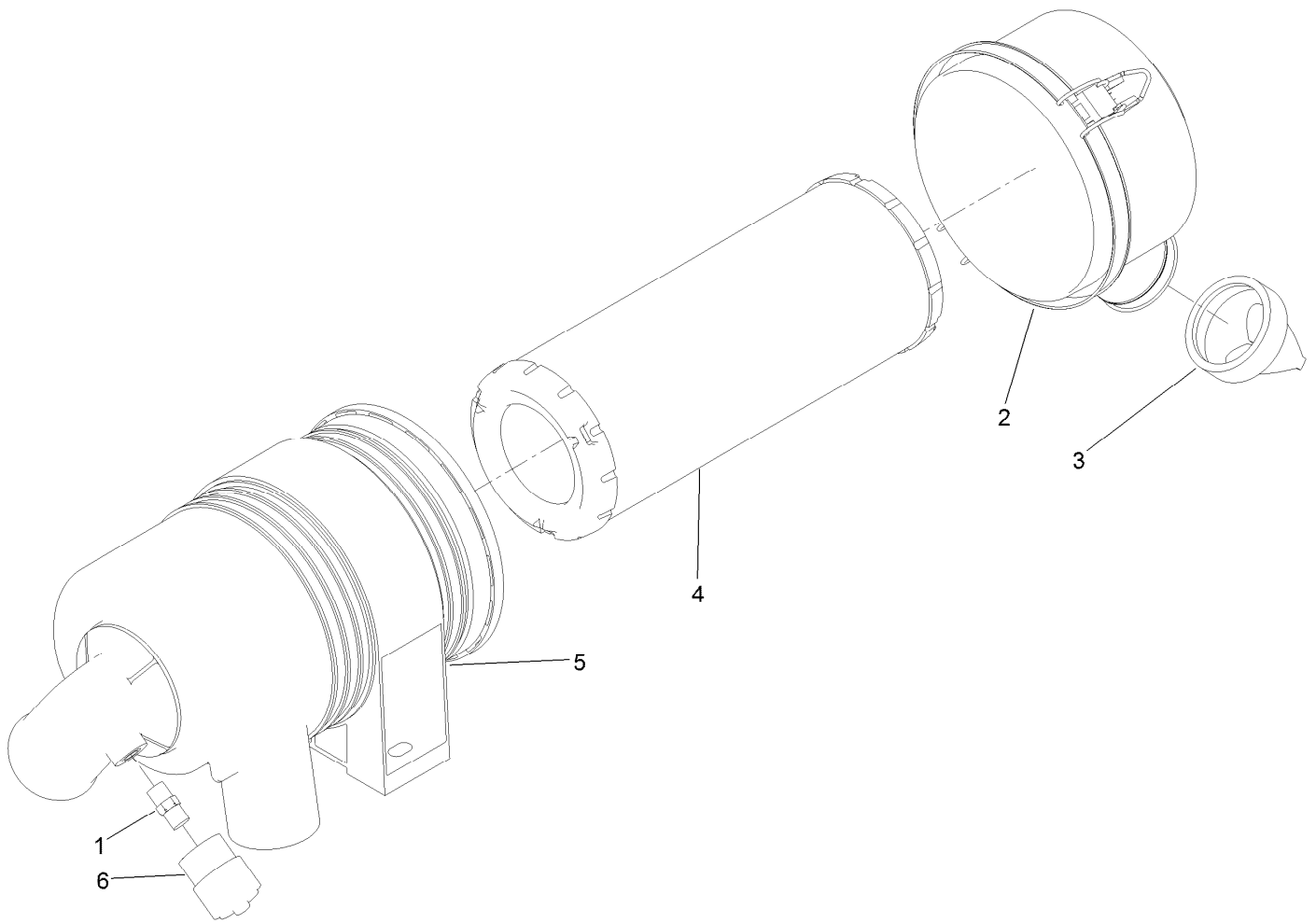
## Hydraulic Reservoir Assembly No. 110-8237

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 1    | 138-8249    | 1    | Reservoir-Hydraulic    |
| 2    | 104-7546    | 1    | Tank Strainer ASM      |
| 2:1  | 340-136     | 1    | O-Ring                 |
| 3    | 353-989     | 1    | Plug-Hex, Hollow       |
| 3:1  | 237-42      | 1    | O-Ring                 |
| 4    | 104-5228    | 1    | Fitting-Elbow, 90 DEG  |
| 5    | 108-9894    | 1    | Fitting-Elbow, Special |
| 5:1  | 237-81      | 1    | O-Ring                 |
| 6    | 354-73      | 1    | Fitting                |
| 6:1  | 237-81      | 1    | O-Ring                 |
| 7    | 46-6560     | 2    | Bushing                |
| 8    | 46-6550     | 1    | Fitting-Elbow, 90 DEG  |



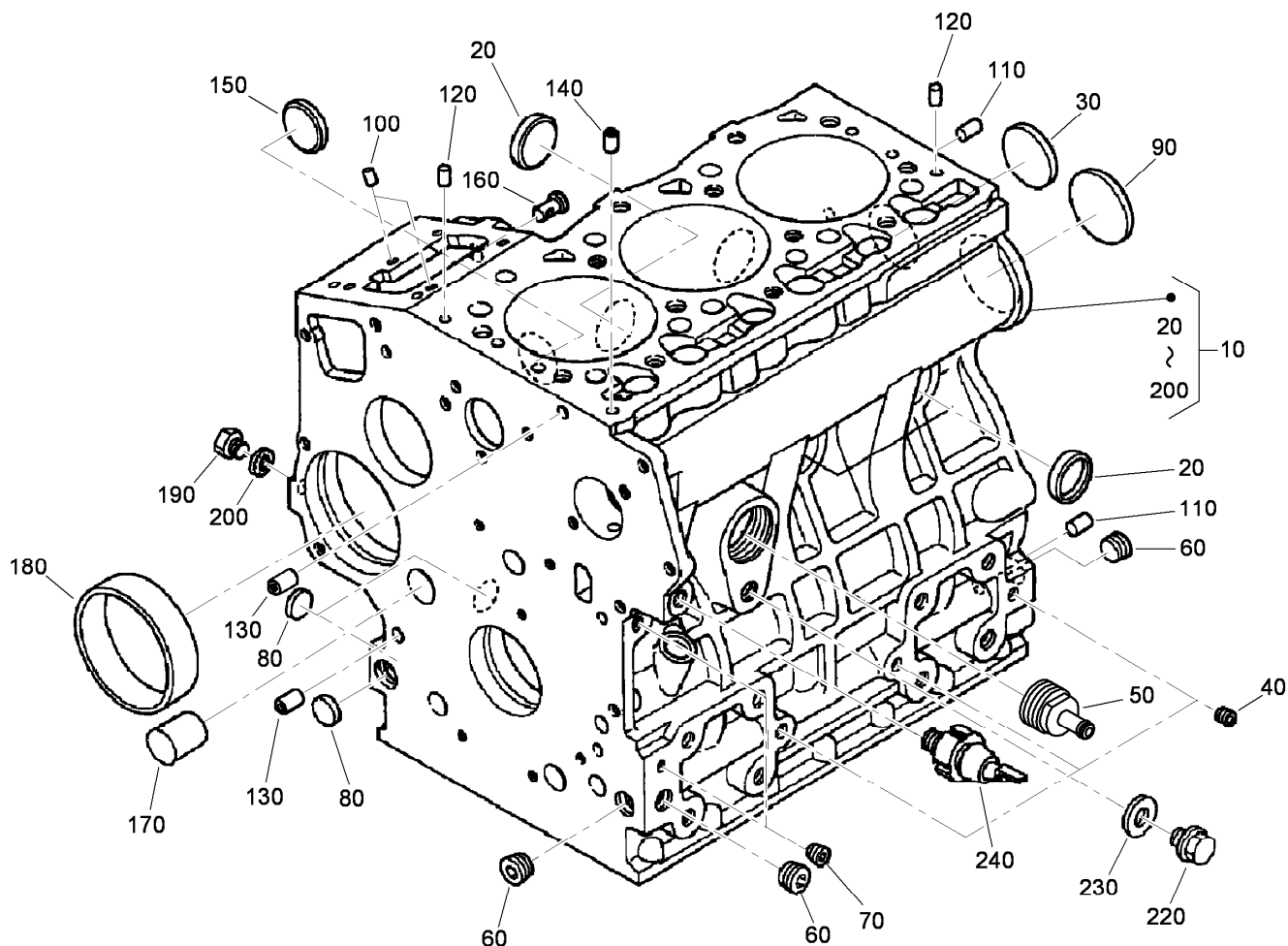
## Air Cleaner and Hose Assembly

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 322-10      | 2    | Screw-HH              |
| 2    | 136-4481    | 1    | Air Cleaner ASM       |
| 3    | 104-8300    | 4    | Nut-HF, NI            |
| 5    | 2412-130    | 1    | Clamp-Hose            |
| 6    | 112-9582    | 1    | Hose-Air Inlet, Turbo |
| 7    | 2412-3      | 1    | Clamp-Hose            |
| 8    | 108-9843-0P | 1    | Support-Cleaner, Air  |
| 9    | 322-6       | 2    | Screw-HH              |
| 10   | 105-7281    | 1    | Hose-Air Inlet, Upper |



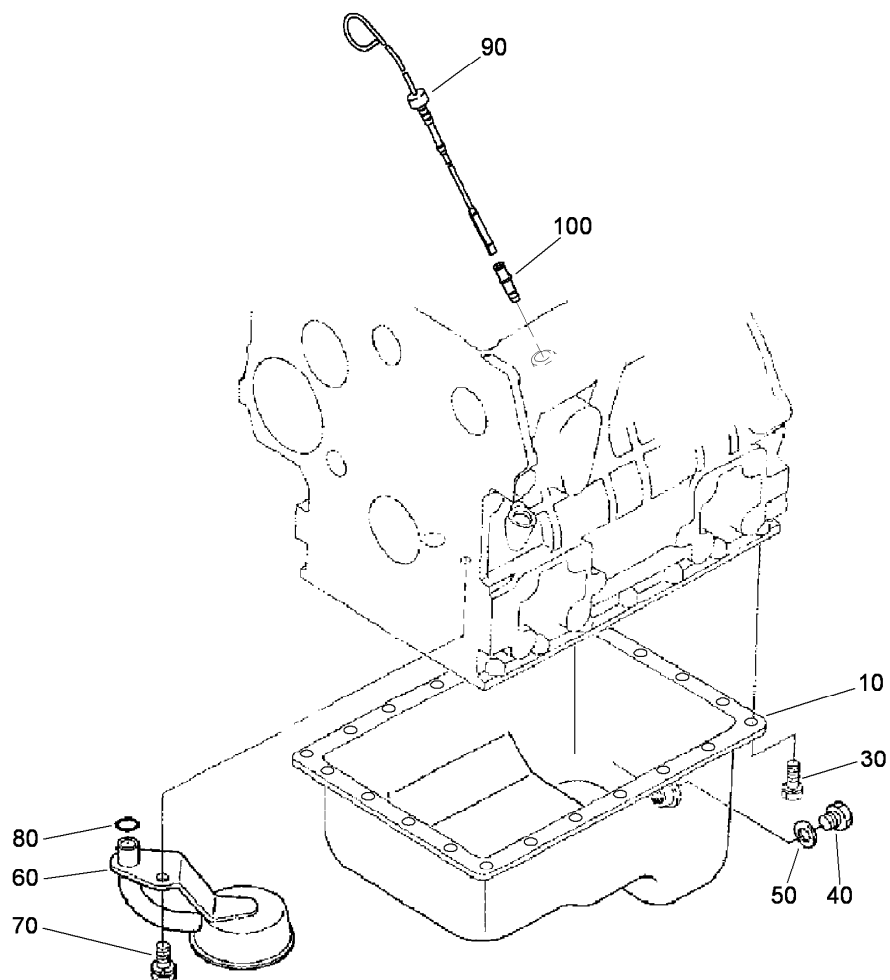
## Air Cleaner Assembly No. 136-4481

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 1    | 94-1416     | 1    | Adapter-Indicator    |
| 2    | 98-9771     | 1    | Cover ASM            |
| 3    | 94-1414     | 1    | Valve-Vacuator       |
| 4    | 108-3810    | 1    | Filter-Air           |
| 5    | 98-4525     | 1    | Bracket-Cleaner, Air |
| 6    | 93-9164     | 1    | Indicator-Mini       |



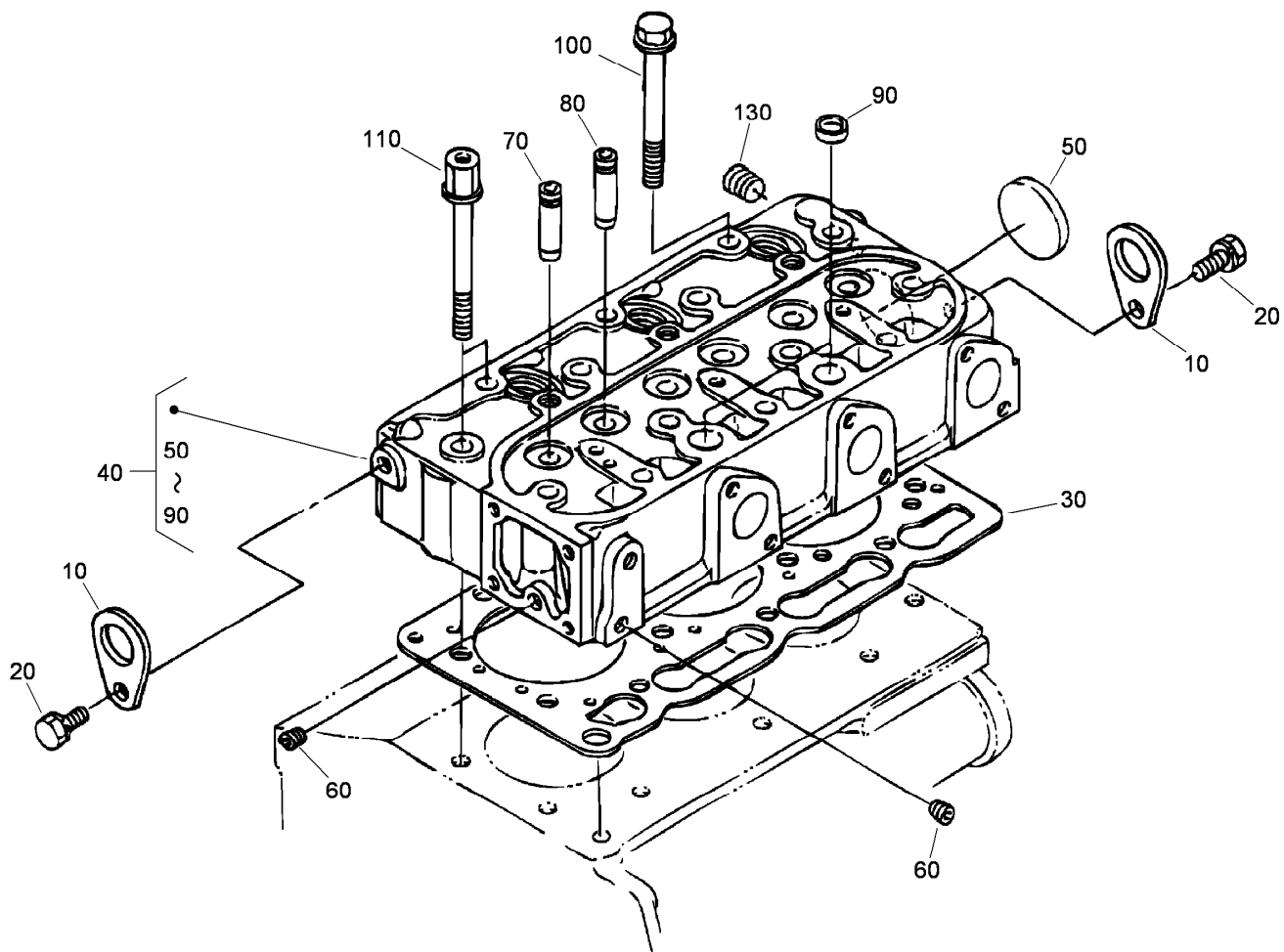
## Crankcase Assembly

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 10   | 112-7043    | 1    | Crankcase ASM          |
| 20   | 98-9398     | 4    | Cap-Sealing            |
| 30   | 98-7539     | 1    | Cap-Sealing            |
| 40   | 98-7540     | 3    | Plug                   |
| 50   | 99-8347     | 1    | Joint-Pipe, Drain      |
| 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           |
| 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  | 98-7507     | 1    | Plug                   |
| 200  | 98-7428     | 1    | Gasket                 |
| 220  | 99-3447     | 1    | Plug                   |
| 230  | 106-7056    | 1    | Gasket                 |
| 240  | 98-9416     | 1    | Switch-Oil             |



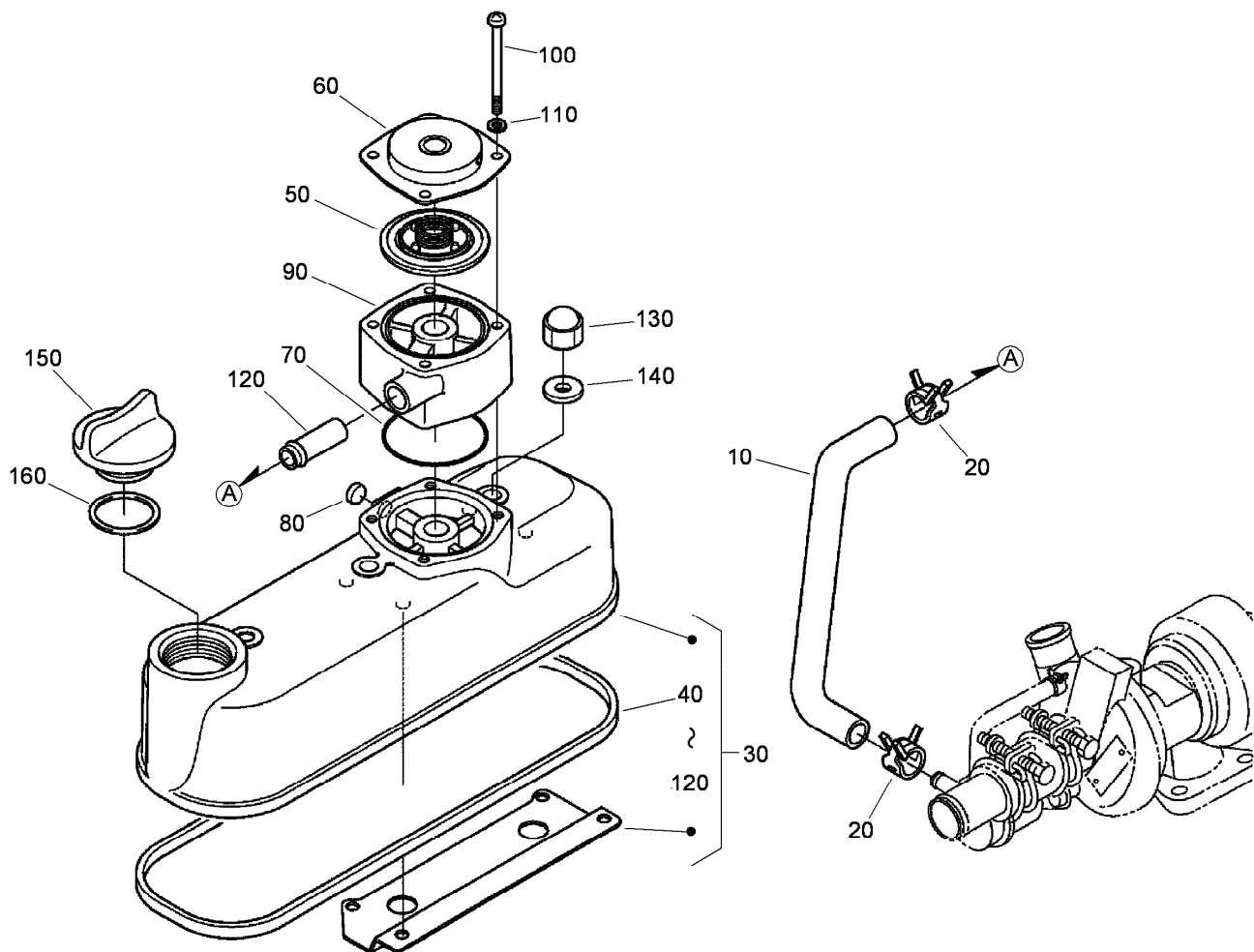
## Oil Pan Assembly

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 10          | 112-0179           | 1           | Pan-Oil            |
| 30          | 98-9351            | 22          | Bolt               |
| 40          | 114-8151           | 1           | Plug-Drain         |
| 50          | 98-7524            | 1           | Gasket             |
| 60          | 112-7044           | 1           | Head-Filter        |
| 70          | 98-7526            | 1           | Bolt               |
| 80          | 105-3776           | 1           | O-Ring             |
| 90          | 107-9076           | 1           | Gauge-Oil          |
| 100         | 105-4580           | 1           | Guide-Gauge, Oil   |



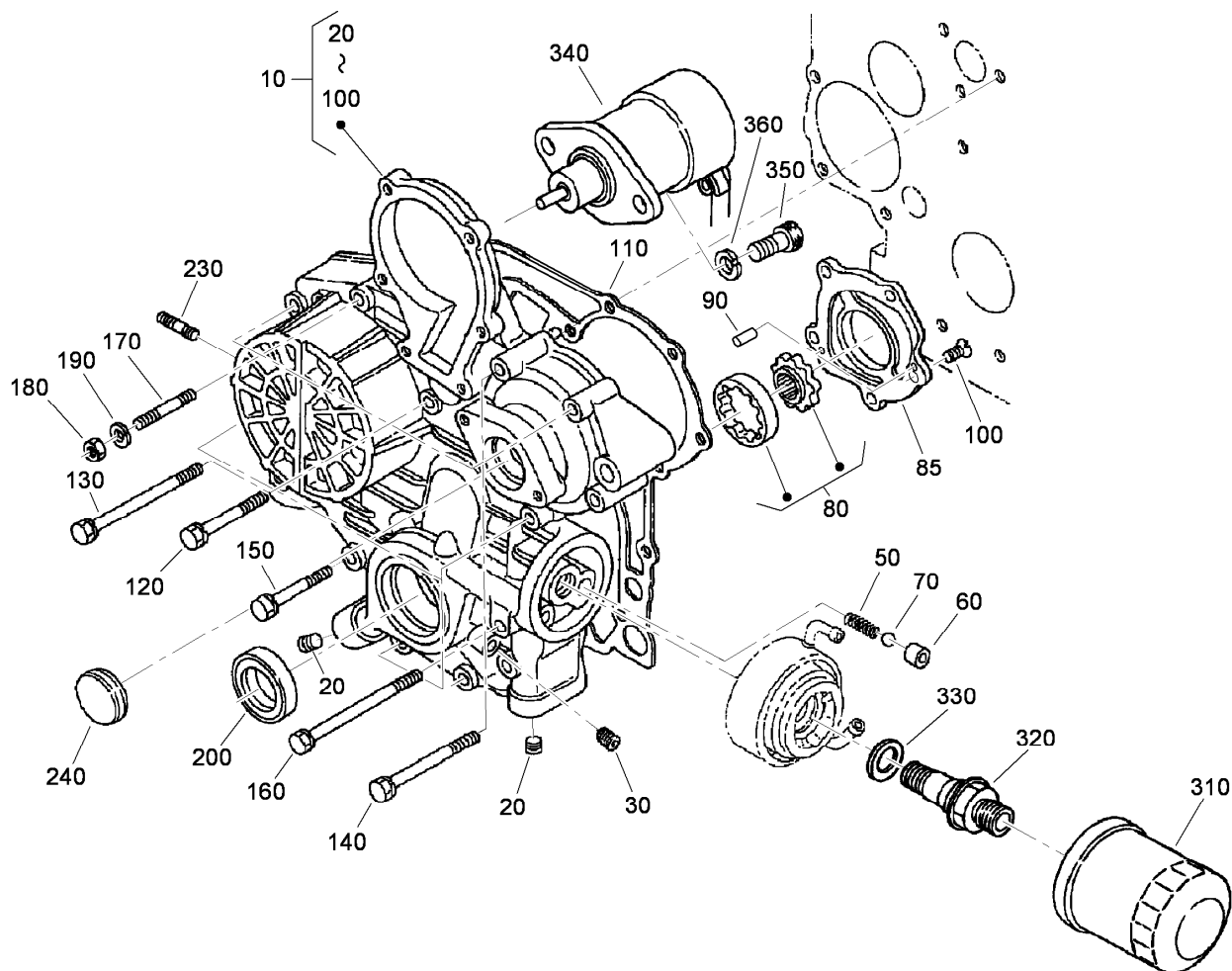
## Cylinder Head Assembly

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 10   | 98-7531     | 2    | Hook-Engine           |
| 20   | 100-9195    | 2    | Bolt                  |
| 30   | 108-6573    | 1    | Gasket-Head, Cylinder |
| 40   | 107-7823    | 1    | Cylinder Head ASM     |
| 50   | 105-3705    | 1    | Cap-Sealing           |
| 60   | 98-7540     | 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   |
| 110  | 98-9647     | 2    | Bolt-Head, Cylinder   |
| 130  | 98-9444     | 1    | Plug                  |



## Head Cover Assembly

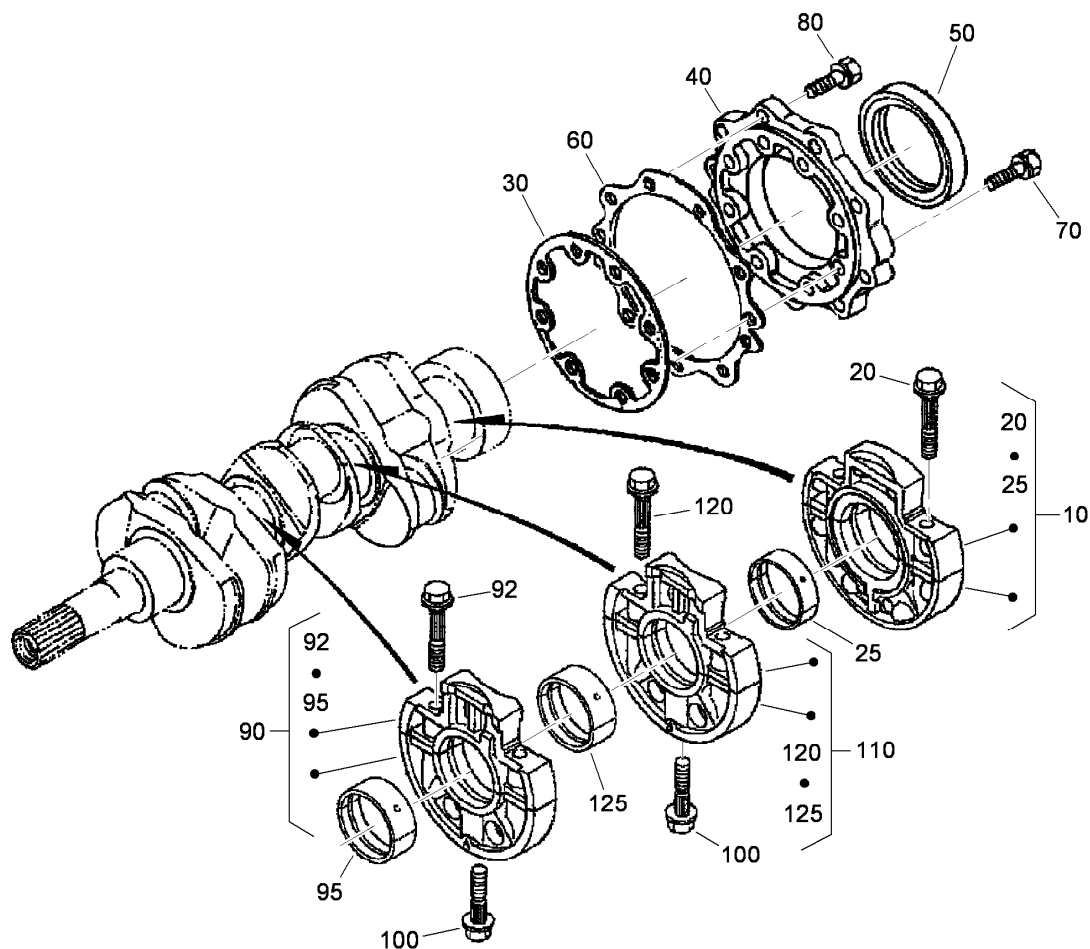
| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 10   | 115-3040    | 1    | Tube-Breather           |
| 20   | 108-2859    | 2    | Clamp-Hose              |
| 30   | 115-3041    | 1    | Cylinder Head Cover ASM |
| 40   | 98-9615     | 1    | Gasket-Cover, Head      |
| 50   | 108-2861    | 1    | Breather Valve ASM      |
| 60   | 110-3714    | 1    | Cover-Breather          |
| 70   | 110-3846    | 1    | O Ring-Breather         |
| 80   | 115-3042    | 1    | Cap-Sealing             |
| 90   | 115-3043    | 1    | Spacer-Breather         |
| 100  | 115-3044    | 4    | Screw-Pan Head          |
| 110  | 100-2204    | 4    | Washer-Spring           |
| 120  | 98-7766     | 1    | Pipe-Return, Water      |
| 130  | 98-9455     | 3    | Nut-Cap                 |
| 140  | 98-9454     | 3    | Gasket                  |
| 150  | 107-9075    | 1    | Plug-Filler, Oil        |
| 160  | 99-3446     | 1    | O-Ring                  |



## Gear Case Assembly

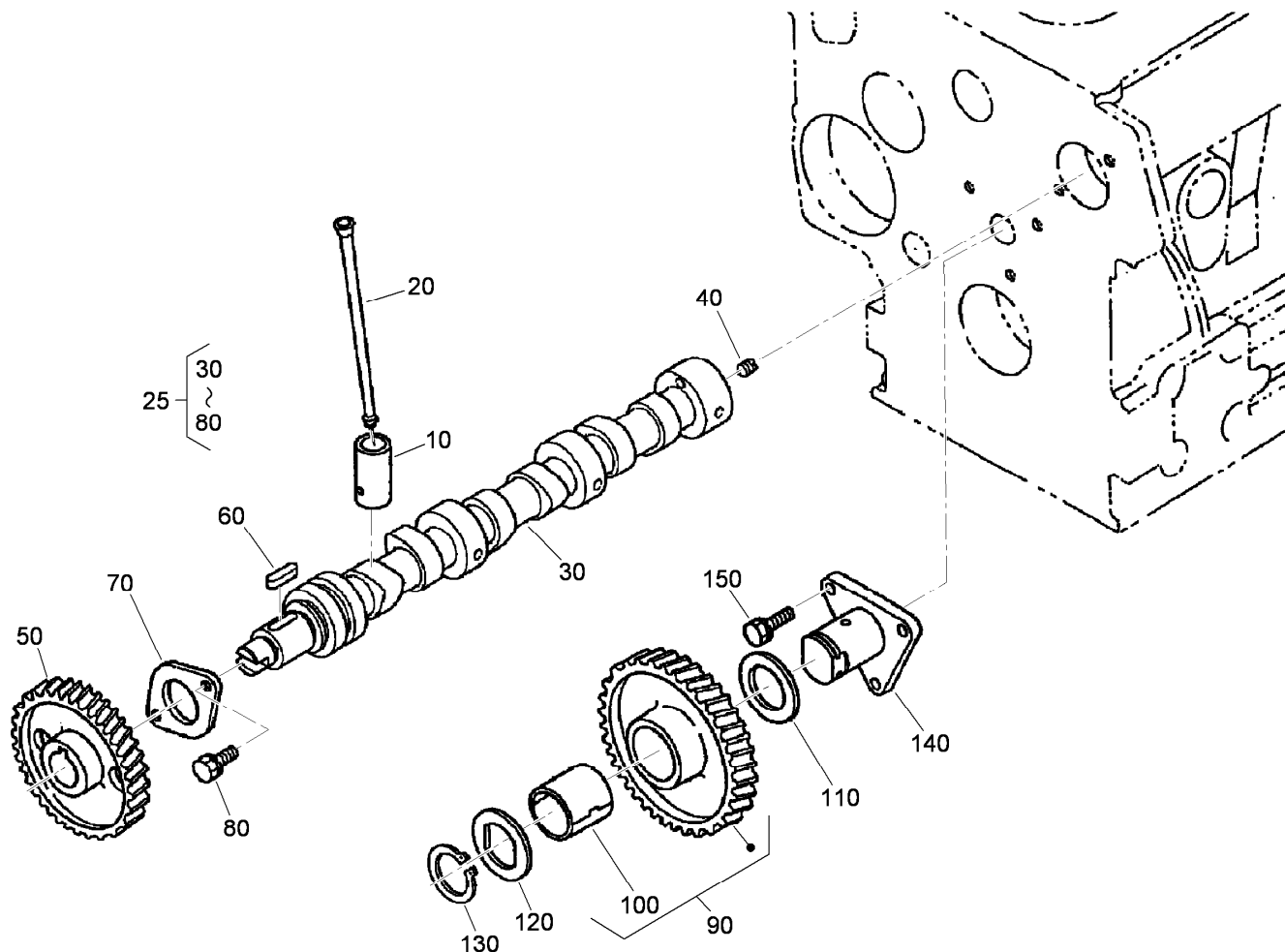
| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 10   | 115-4111    | 1    | Gear Case ASM      |
| 20   | 98-9598     | 2    | Plug               |
| 30   | 98-7487     | 1    | Plug               |
| 50   | 98-9544     | 1    | Spring             |
| 60   | 98-9543     | 1    | Seat-Valve         |
| 70   | 98-9380     | 1    | Ball               |
| 80   | 98-9540     | 1    | Oil Pump Rotor ASM |
| 85   | 107-9069    | 1    | Cover-Pump, Oil    |
| 90   | 107-9072    | 2    | Pin-Straight       |
| 100  | 107-9071    | 5    | Screw              |
| 110  | 98-9633     | 1    | Gasket-Case, Gear  |
| 120  | 98-7496     | 3    | Bolt               |
| 130  | 105-3797    | 4    | Bolt               |
| 140  | 98-9356     | 4    | Bolt               |

| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 150  | 107-9074    | 1    | Bolt             |
| 160  | 98-9586     | 2    | Bolt             |
| 170  | 105-3709    | 1    | Stud             |
| 180  | 98-7572     | 1    | Nut              |
| 190  | 98-7699     | 1    | Washer-Spring    |
| 200  | 98-9482     | 1    | Seal-Oil         |
| 230  | 105-3710    | 2    | Stud             |
| 240  | 98-9641     | 1    | Cover-Case, Gear |
| 310  | 108-3841    | 1    | Filter-Oil       |
| 320  | 104-5159    | 1    | Holder ASM       |
| 330  | 98-9727     | 1    | Collar           |
| 340  | 104-5155    | 1    | Solenoid-Stop    |
| 350  | 115-3039    | 2    | Bolt-HSH         |
| 360  | 98-7699     | 2    | Washer-Spring    |



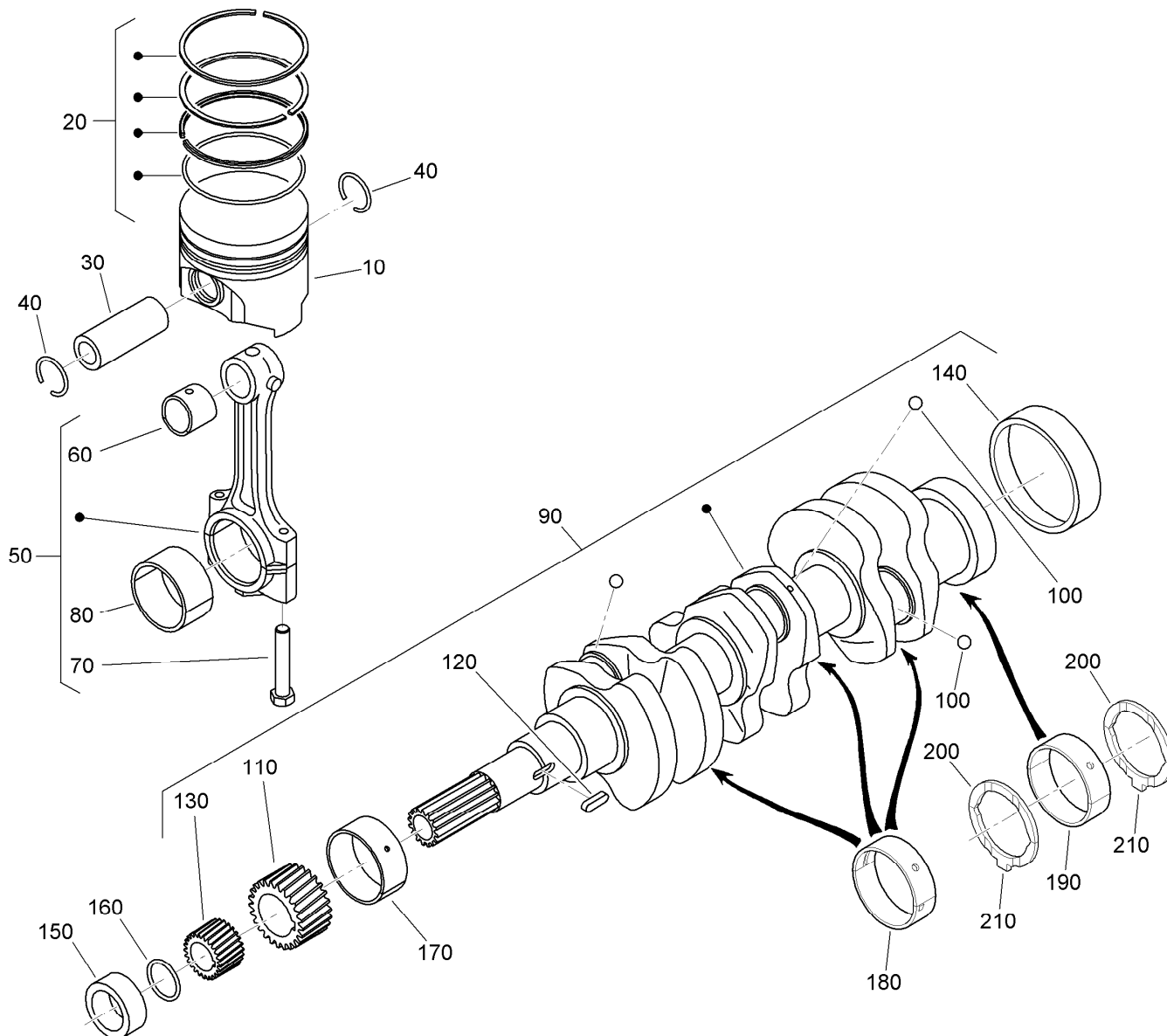
## Main Bearing Case Assembly

| Ref. | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 10   | 112-7026    | 1    | Wheel Bearing Case ASM    |
| 20   | 98-9484     | 2    | Bolt-Case, Bearing        |
| 25   | 112-7045    | 1    | Metal-Crankshaft          |
| 25   | 112-7039    | 1    | Metal-Crankshaft (0.2Mm)  |
| 25   | 112-7040    | 1    | Metal-Crankshaft (-0.4Mm) |
| 30   | 98-9634     | 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   | 98-9352     | 8    | Bolt                      |
| 80   | 98-7568     | 9    | Bolt                      |
| 90   | 112-7028    | 1    | Bearing ASM               |
| 92   | 98-9484     | 2    | Bolt-Case, Bearing        |
| 95   | 112-7011    | 1    | Bearing-Main (STD)        |
| 95   | 112-7012    | 1    | Metal-Crankpin (-0.2Mm)   |
| 95   | 112-7013    | 1    | Metal-Crankpin (-0.4Mm)   |
| 100  | 98-9485     | 2    | Bolt-Case, Bearing        |
| 110  | 112-7027    | 1    | Bearing ASM               |
| 120  | 98-9484     | 2    | Bolt-Case, Bearing        |
| 125  | 112-7011    | 1    | Bearing-Main (STD)        |
| 125  | 112-7012    | 1    | Metal-Crankpin (-0.2Mm)   |
| 125  | 112-7013    | 1    | Metal-Crankpin (-0.4Mm)   |



## Camshaft and Idle Gear Shaft Assembly

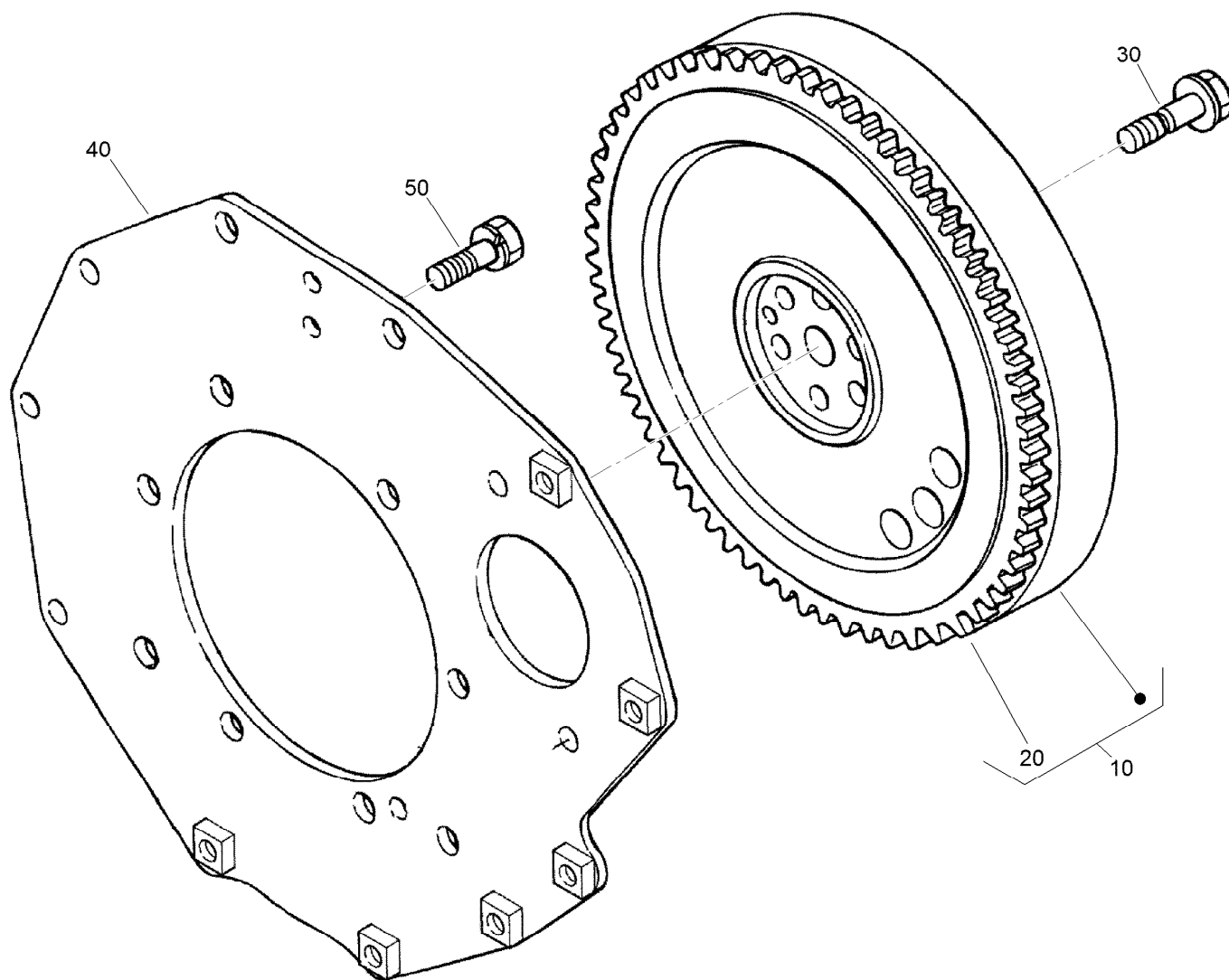
| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 10   | 112-0185    | 6    | Tappet             |
| 20   | 98-9509     | 6    | Rod-Push           |
| 25   | 112-7029    | 1    | Camshaft ASM       |
| 30   | 108-1403    | 1    | Camshaft           |
| 40   | 98-7449     | 1    | Screw-Set          |
| 50   | 98-9512     | 1    | Gear-Cam           |
| 60   | 98-9378     | 1    | Key-Feather        |
| 70   | 98-9510     | 1    | Stopper-Camshaft   |
| 80   | 98-7692     | 2    | Bolt               |
| 90   | 98-9649     | 1    | Idle Gear ASM      |
| 100  | 98-9650     | 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

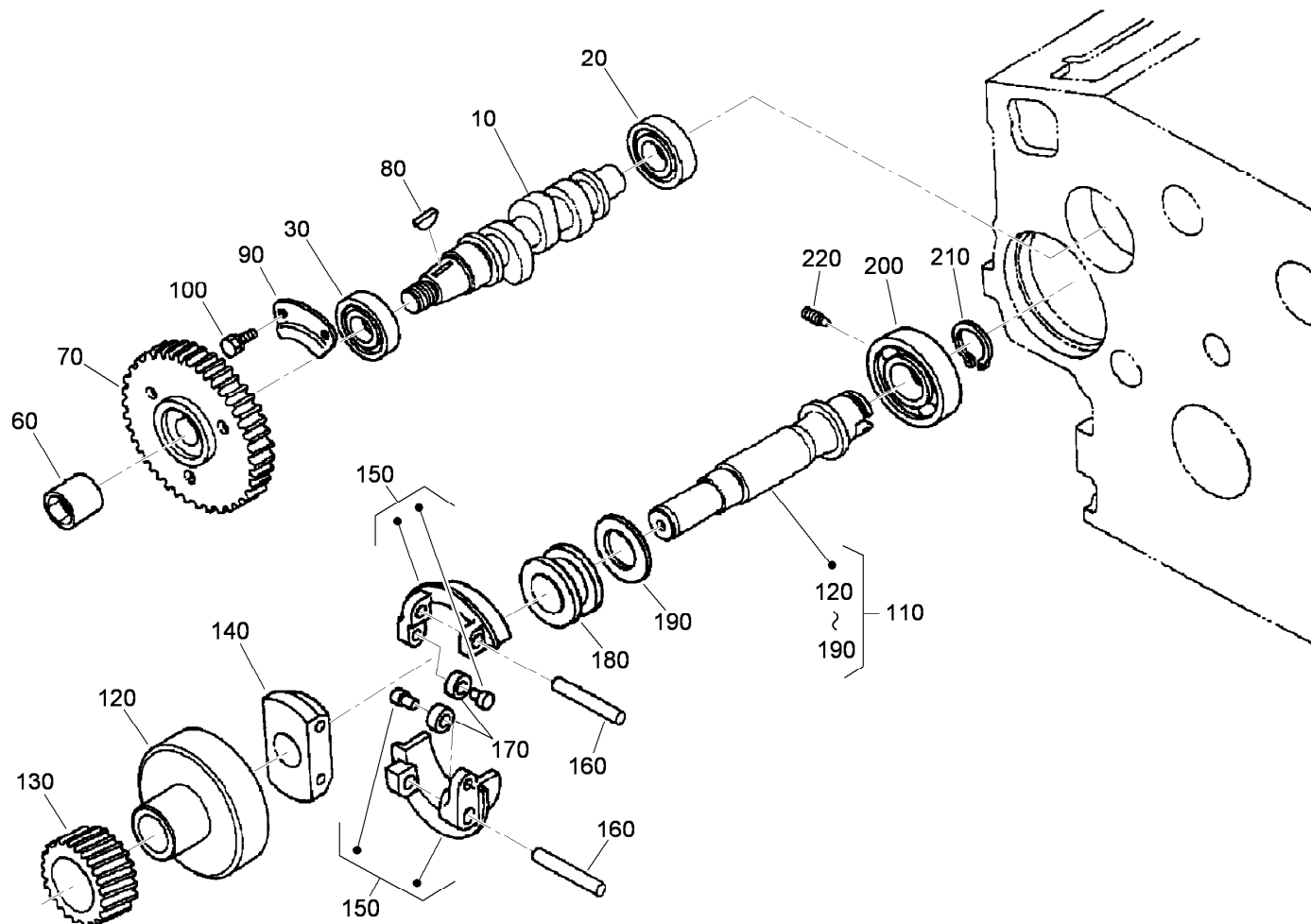
| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 10   | 98-9550     | 3    | Piston (STD)             |
| 10   | 108-1417    | 3    | Piston (+0.5Mm)          |
| 20   | 98-9551     | 3    | Piston Ring ASM (STD)    |
| 20   | 108-1404    | 3    | Piston Ring ASM (+0.5Mm) |
| 30   | 98-9513     | 3    | Pin-Piston               |
| 40   | 98-9514     | 6    | Circlip-Pin, Piston      |
| 50   | 98-9552     | 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   | 108-1405    | 3    | Metal-Crankpin (-0.2Mm)  |
| 80   | 108-1406    | 3    | Metal-Crankpin (-0.4Mm)  |
| 90   | 98-9642     | 1    | Crankshaft ASM           |
| 100  | 110-3729    | 3    | Ball                     |
| 110  | 98-9532     | 1    | Gear-Crankshaft          |
| 120  | 98-9666     | 1    | Key                      |
| 130  | 98-9542     | 1    | Gear-Drive, Oil Pump     |
| 140  | 98-9522     | 1    | Sleeve-Crankshaft        |

| Ref. | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 150  | 98-9521     | 1    | Collar-Crankshaft         |
| 160  | 105-3783    | 1    | O-Ring                    |
| 170  | 112-7005    | 1    | Bearing-Main (STD)        |
| 170  | 112-7009    | 1    | Metal-Crankpin (-0.2Mm)   |
| 170  | 112-7010    | 1    | Metal-Crankpin (-0.4Mm)   |
| 180  | 112-7011    | 2    | Bearing-Main (STD)        |
| 180  | 112-7012    | 2    | Metal-Crankpin (-0.2Mm)   |
| 180  | 112-7013    | 2    | Metal-Crankpin (-0.4Mm)   |
| 190  | 112-7045    | 1    | Metal-Crankshaft          |
| 190  | 112-7039    | 1    | Metal-Crankshaft (0.2Mm)  |
| 190  | 112-7040    | 1    | Metal-Crankshaft (-0.4Mm) |
| 200  | 98-9413     | 2    | Bearing-Thrust (STD)      |
| 200  | 98-9414     | 2    | Bearing-Thrust (0.2Mm)    |
| 200  | 98-9415     | 2    | Bearing-Thrust (0.4Mm)    |
| 210  | 98-9688     | 2    | Bearing-Thrust (STD)      |
| 210  | 98-9689     | 2    | Bearing-Thrust (0.2Mm)    |
| 210  | 127-0438    | 2    | Metal-Side (+0.40Mm)      |



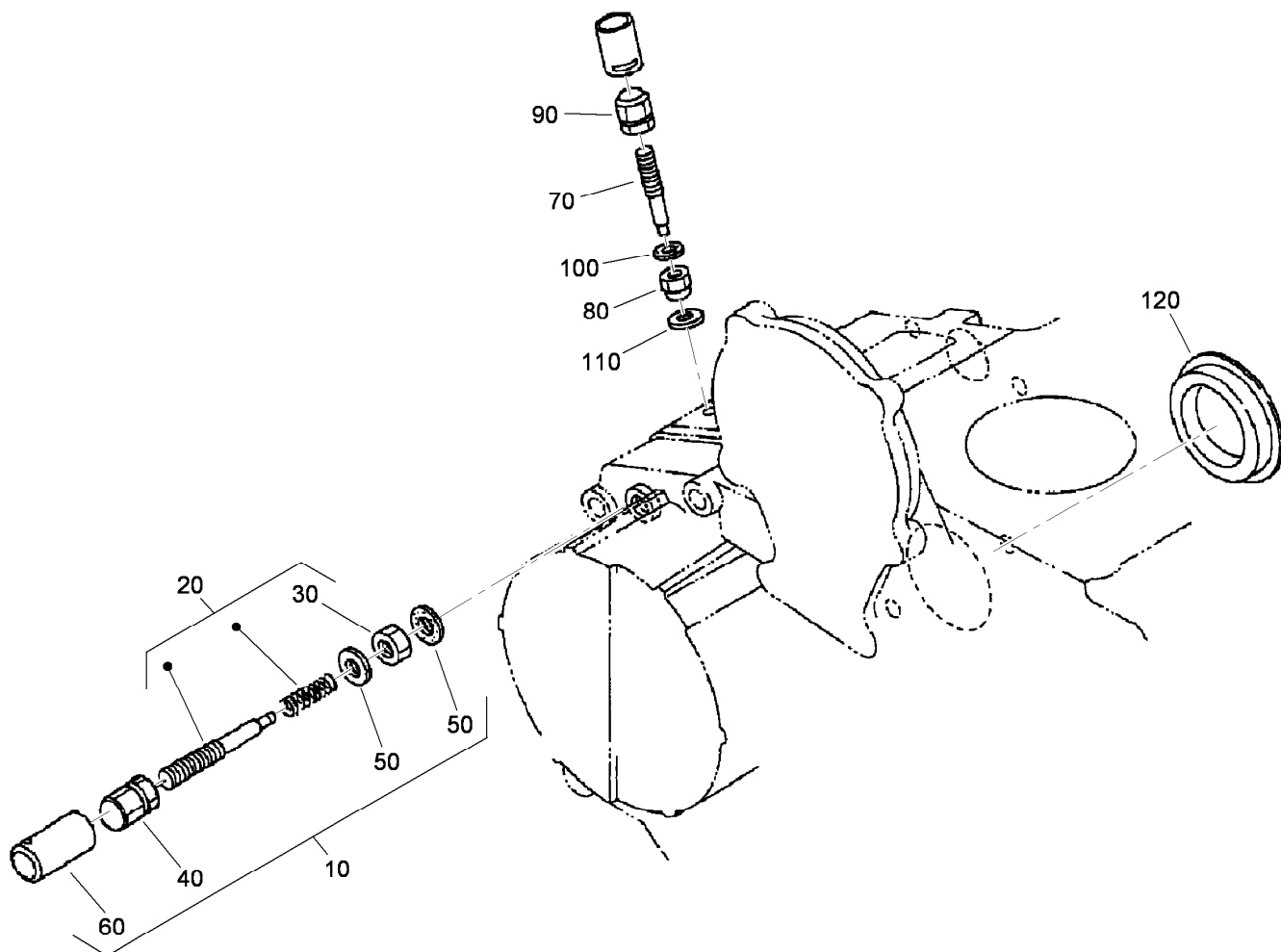
## Flywheel Assembly

| Ref. | Part Number | Qty. | Description     |
|------|-------------|------|-----------------|
| 10   | 105-3784    | 1    | Flywheel ASM    |
| 20   | 115-3015    | 1    | Gear-Ring       |
| 30   | 98-9537     | 6    | Bolt-Flywheel   |
| 40   | 98-9486     | 1    | Plate-End, Rear |
| 50   | 98-9392     | 8    | Bolt            |



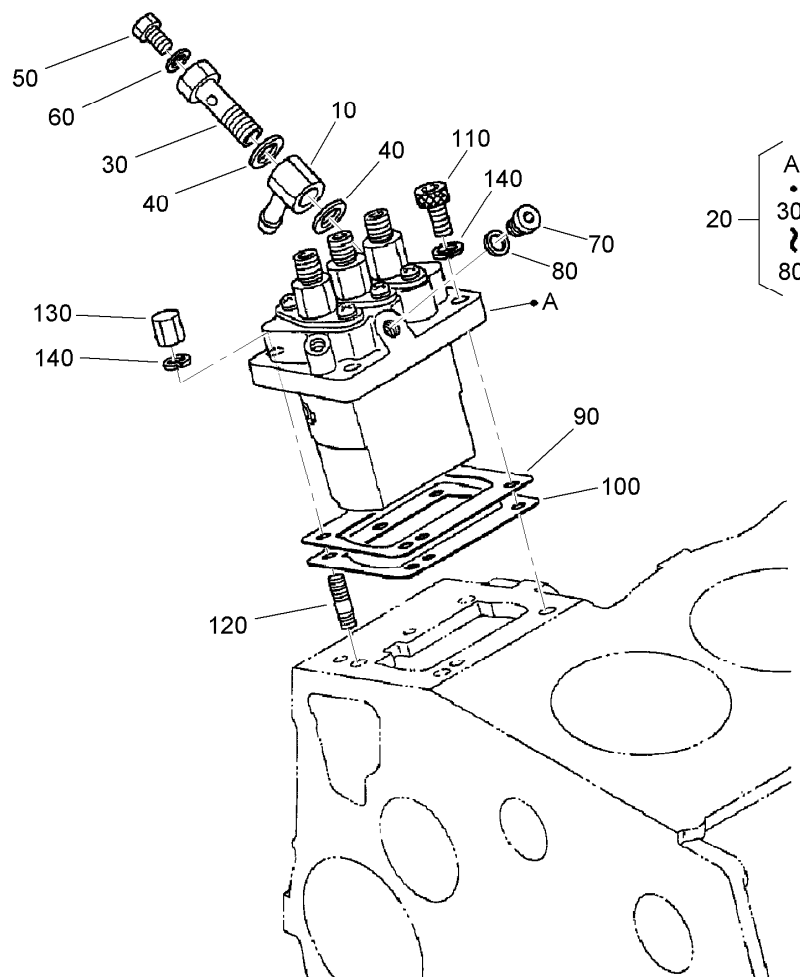
## Fuel Camshaft and Governor Shaft Assembly

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 10   | 98-9459     | 1    | Camshaft-Fuel           |
| 20   | 107-9077    | 1    | Bearing-Ball            |
| 30   | 107-9078    | 1    | Bearing-Ball            |
| 60   | 98-9590     | 1    | Nut-Cap                 |
| 70   | 98-9669     | 1    | Gear-Pump, Injection    |
| 80   | 98-9595     | 1    | Key-Woodruff            |
| 90   | 98-9511     | 1    | Stopper-Fuel, Camshaft  |
| 100  | 98-7692     | 2    | Bolt                    |
| 110  | 98-9644     | 1    | Governor Shaft ASM      |
| 120  | 98-9562     | 1    | Holder-Gear, Governor   |
| 130  | 98-9673     | 1    | Gear-Governor           |
| 140  | 98-9561     | 1    | Holder-Weight, Governor |
| 150  | 98-9559     | 2    | Governor Weight ASM     |
| 160  | 98-9560     | 2    | Shaft-Weight, Governor  |
| 170  | 98-9692     | 2    | Roller                  |
| 180  | 98-9563     | 1    | Sleeve-Governor         |
| 190  | 98-9564     | 1    | Washer-Thrust           |
| 200  | 107-9079    | 1    | Bearing-Ball            |
| 210  | 98-9657     | 1    | Circlip-Shaft, Governor |
| 220  | 98-9565     | 1    | Screw-Set               |



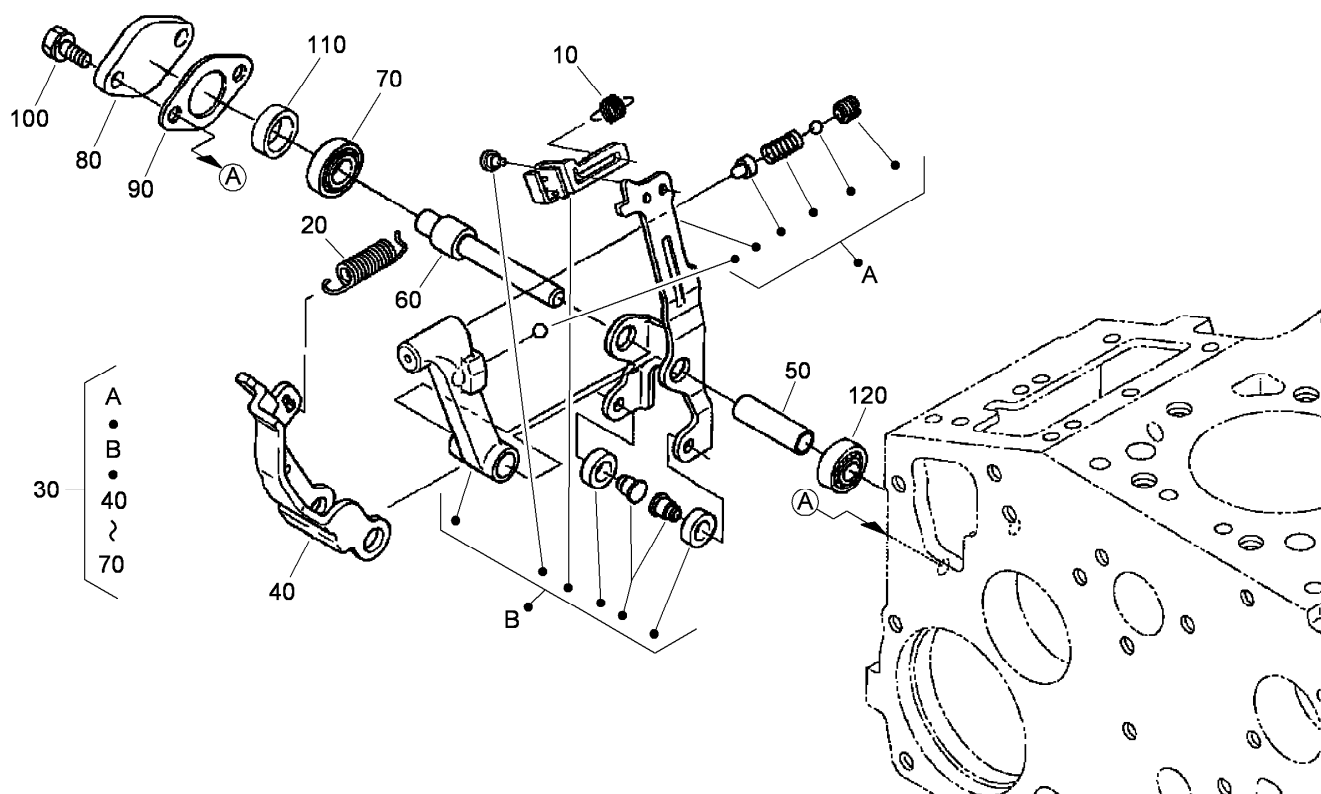
## Idle Apparatus Assembly

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 10   | 98-9678     | 1    | Idle Apparatus ASM |
| 20   | 112-7014    | 1    | Adjusting Bolt ASM |
| 30   | 99-8387     | 1    | Nut-Cap            |
| 40   | 112-0181    | 1    | Nut                |
| 50   | 98-7654     | 2    | Gasket             |
| 60   | 98-7656     | 1    | Cap                |
| 70   | 112-7015    | 1    | Bolt-Adjusting     |
| 80   | 100-2175    | 1    | Nut-Lock           |
| 90   | 112-0181    | 1    | Nut                |
| 100  | 98-7654     | 1    | Gasket             |
| 110  | 107-9081    | 1    | Gasket             |
| 120  | 112-7016    | 1    | Cover-Pump         |



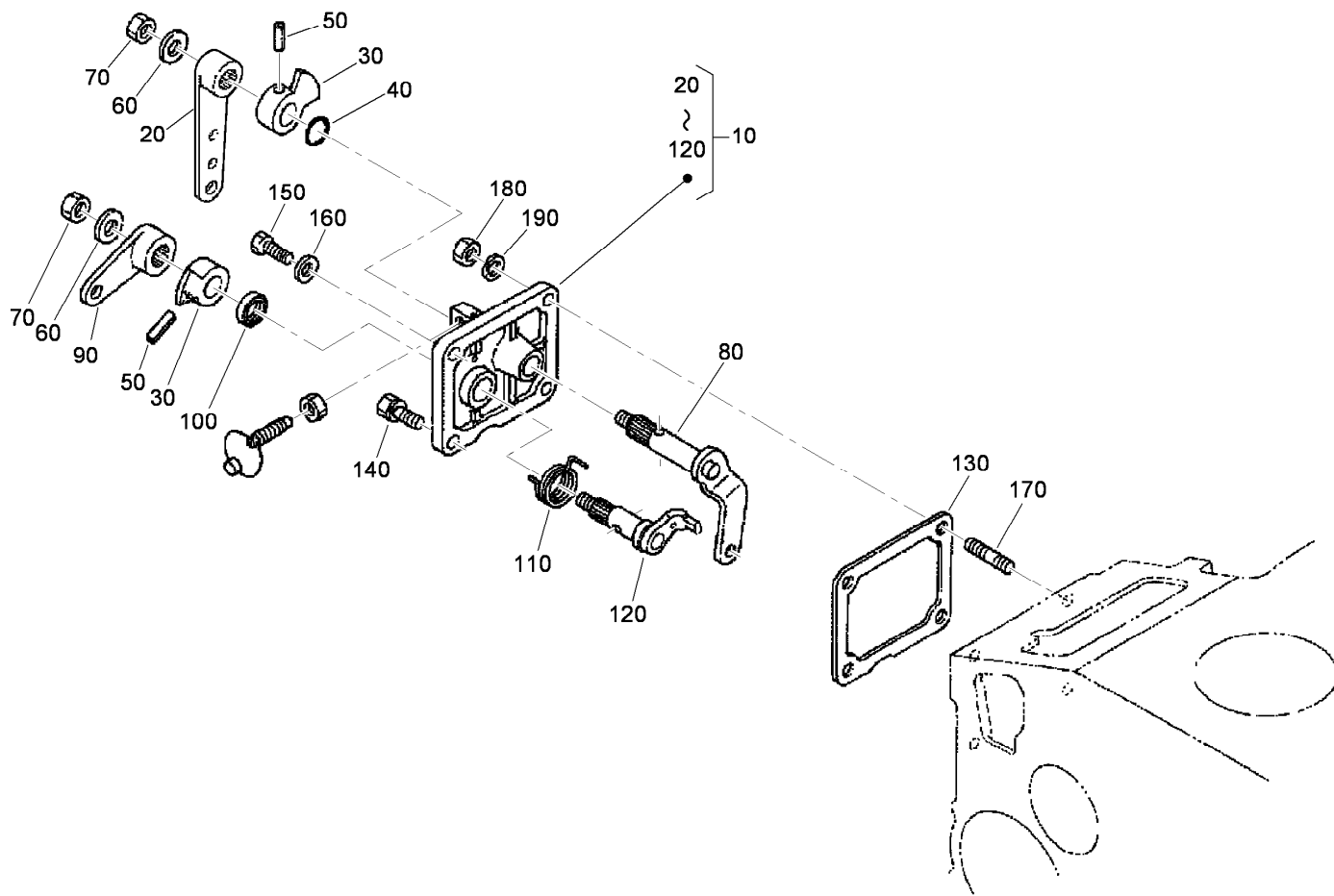
## Injection Pump Assembly

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 10   | 98-9596     | 1    | Joint-Eye               |
| 20   | 98-9643     | 1    | Injection Pump ASM      |
| 30   | 98-9464     | 1    | Bolt-Joint              |
| 40   | 98-9445     | 2    | Gasket                  |
| 50   | 98-9430     | 1    | Screw                   |
| 60   | 98-9446     | 1    | Gasket                  |
| 70   | 98-9466     | 1    | Plug                    |
| 80   | 98-9451     | 1    | Gasket                  |
| 90   | 98-9457     | 1    | Shim-Injection (0.25Mm) |
| 90   | 98-9456     | 1    | Shim-Injection (0.20Mm) |
| 100  | 98-9458     | 1    | Shim-Injection (0.30Mm) |
| 110  | 98-9361     | 2    | Bolt-HSH                |
| 120  | 98-9438     | 2    | Stud                    |
| 130  | 98-9440     | 2    | Nut-Cap                 |
| 140  | 98-7699     | 4    | Washer-Spring           |



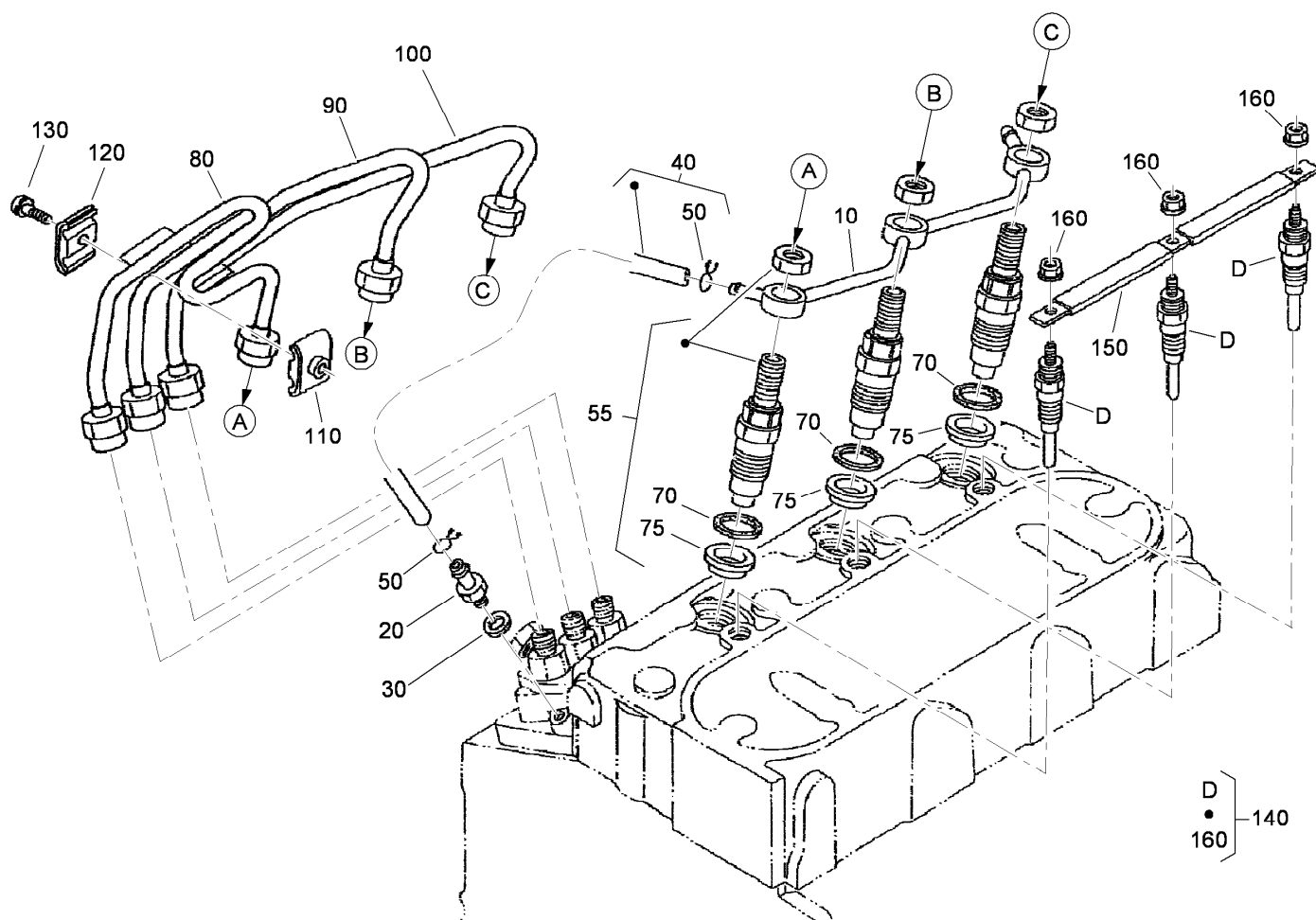
## Governor Assembly

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 10   | 105-3786    | 1    | Spring-Start            |
| 20   | 98-9681     | 1    | Spring-Governor         |
| 30   | 107-9082    | 1    | Fork Lever ASM          |
| 40   | 107-9084    | 1    | Lever-Fork              |
| 50   | 107-9085    | 1    | Shaft-Lever, Fork       |
| 60   | 107-9086    | 1    | Shaft-Lever, Fork       |
| 70   | 98-9570     | 1    | Bearing-Miniaturize     |
| 80   | 98-9569     | 1    | Cover-Shaft, Fork Lever |
| 90   | 98-9682     | 1    | Gasket                  |
| 100  | 98-9350     | 2    | Bolt                    |
| 110  | 98-9567     | 1    | Collar                  |
| 120  | 98-9571     | 1    | Bearing-Miniaturize     |



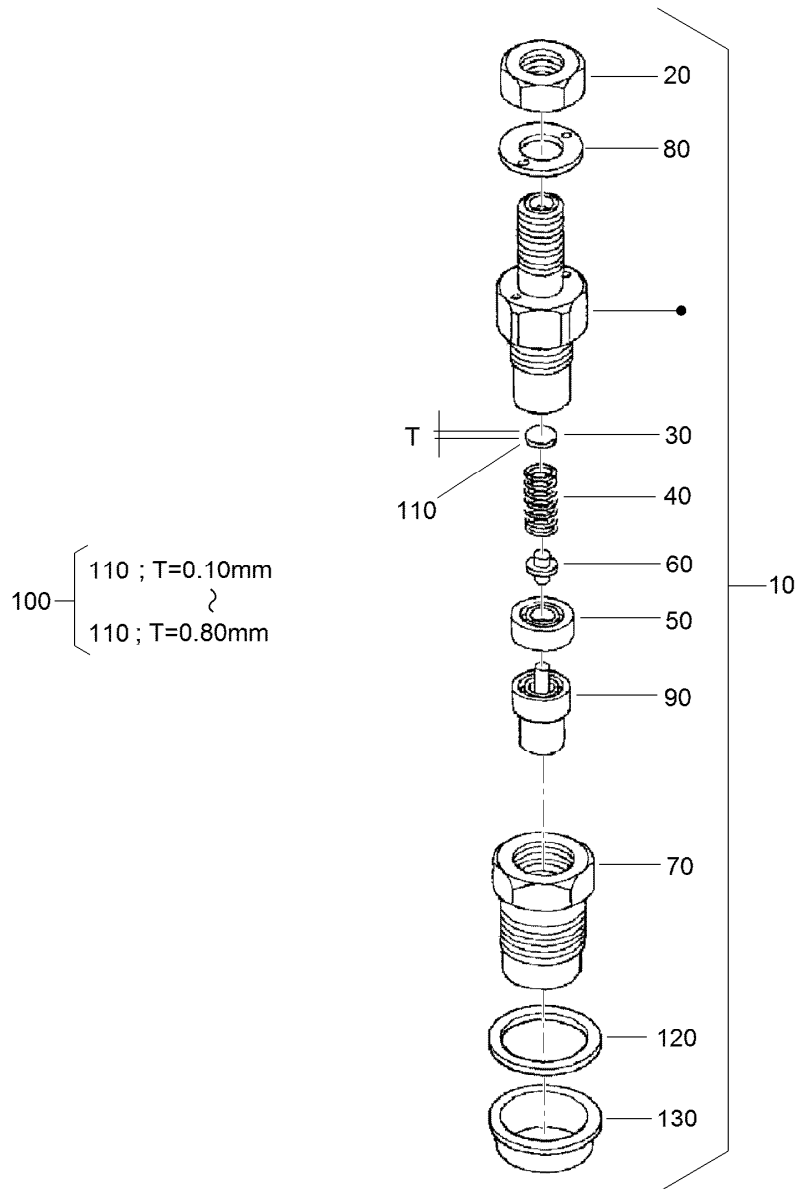
## Speed Control Plate Assembly

| 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        |
| 120  | 98-9664     | 1    | Shaft-Lever, Stop    |
| 130  | 98-9637     | 1    | Gasket               |
| 140  | 98-7692     | 1    | Bolt                 |
| 150  | 99-8348     | 1    | Bolt                 |
| 160  | 98-7654     | 1    | Gasket               |
| 170  | 105-3710    | 2    | Stud                 |
| 180  | 98-7572     | 2    | Nut                  |
| 190  | 98-7699     | 2    | Washer-Spring        |



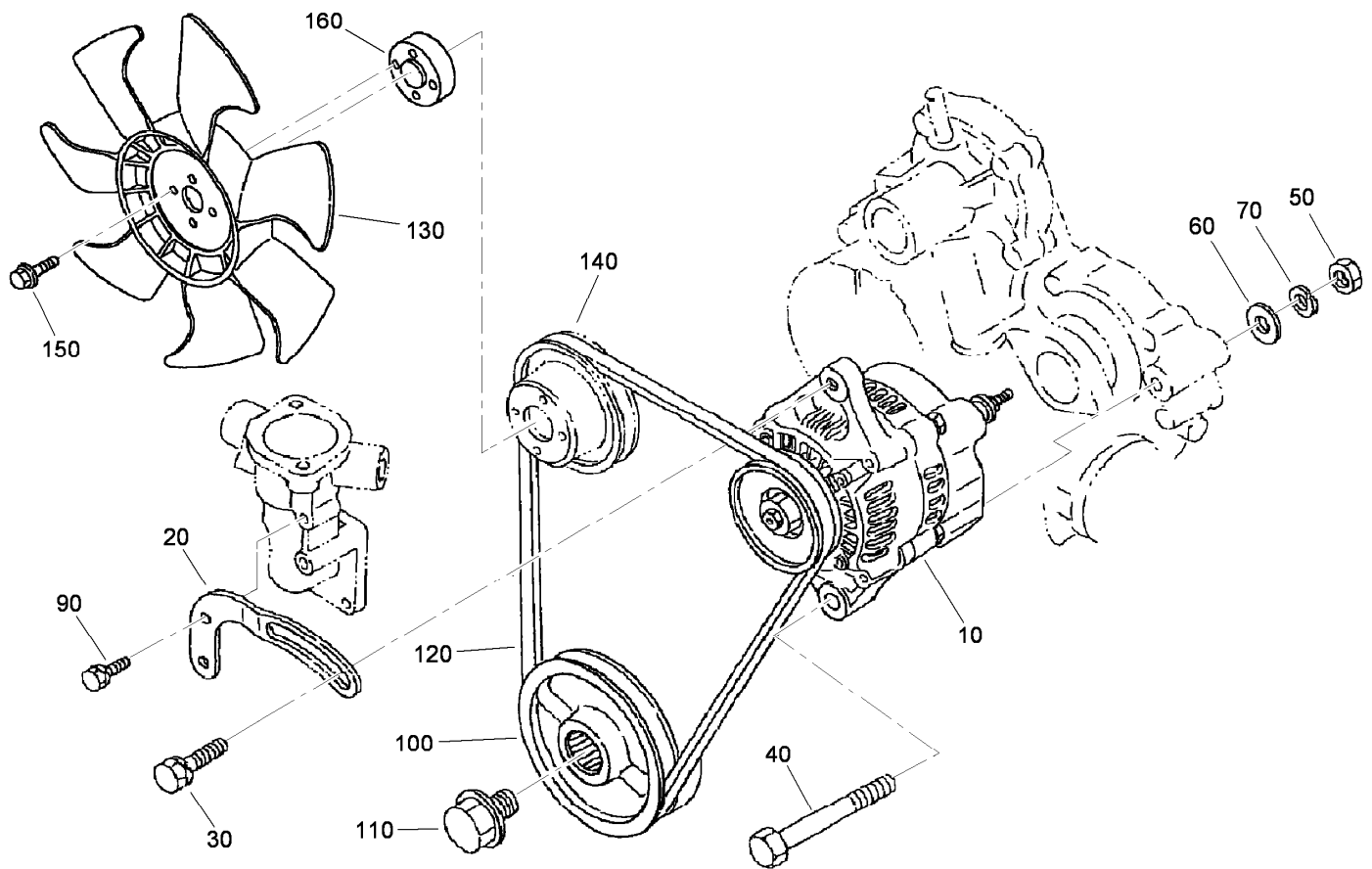
## Nozzle Holder and Glow Plug Assembly

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 10   | 98-9621     | 1    | Overflow Pipe ASM  |
| 20   | 98-9431     | 1    | Screw-Bleeder, Air |
| 30   | 98-7654     | 1    | Gasket             |
| 40   | 98-9624     | 1    | Overflow Pipe ASM  |
| 50   | 98-7671     | 2    | Clip-Pipe          |
| 55   | 108-2866    | 3    | Nozzle Holder Kit  |
| 70   | 98-7676     | 3    | Gasket             |
| 75   | 98-7677     | 3    | Seal-Heat          |
| 80   | 98-9622     | 1    | Pipe-Injection     |
| 90   | 98-9654     | 1    | Pipe-Injection     |
| 100  | 98-9655     | 1    | Pipe-Injection     |
| 110  | 98-7682     | 2    | Clamp-Pipe         |
| 120  | 98-7683     | 2    | Clamp-Pipe         |
| 130  | 98-7684     | 2    | Screw (W/Washer)   |
| 140  | 98-9623     | 3    | Plug-Glow          |
| 150  | 98-9631     | 1    | Cord-Plug, Glow    |
| 160  | 99-8377     | 3    | Nut-Flange         |



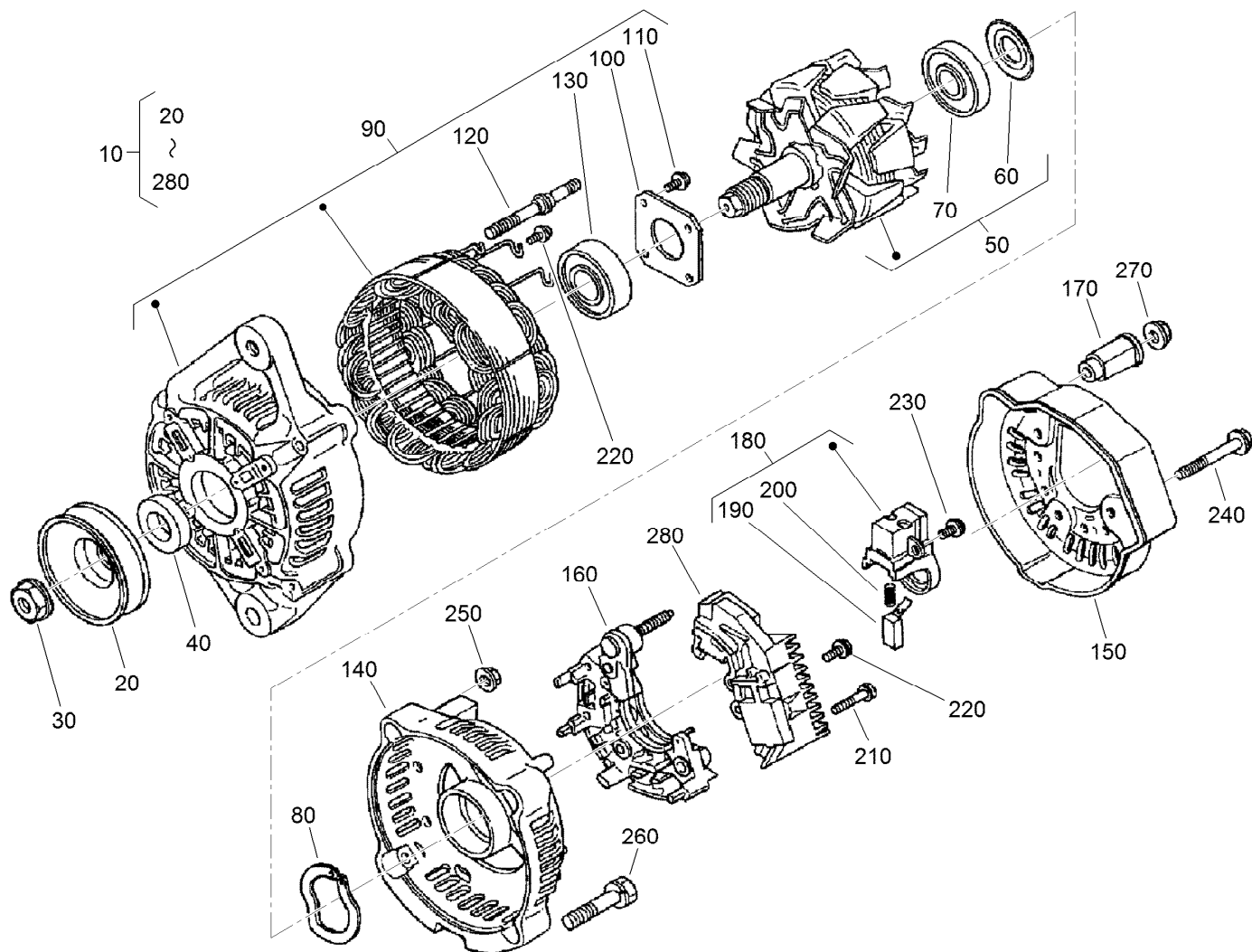
## Nozzle Holder Assembly

| Ref. | Part Number | Qty. | Description            | Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|------|-------------|------|------------------------|
| 10   | 108-2866    | 3    | Nozzle Holder Kit      | 110  | 99-8311     | 3    | Washer-Adjust (0.20Mm) |
| 20   | 99-8301     | 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   | 107-7826    | 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 and Pulley Assembly

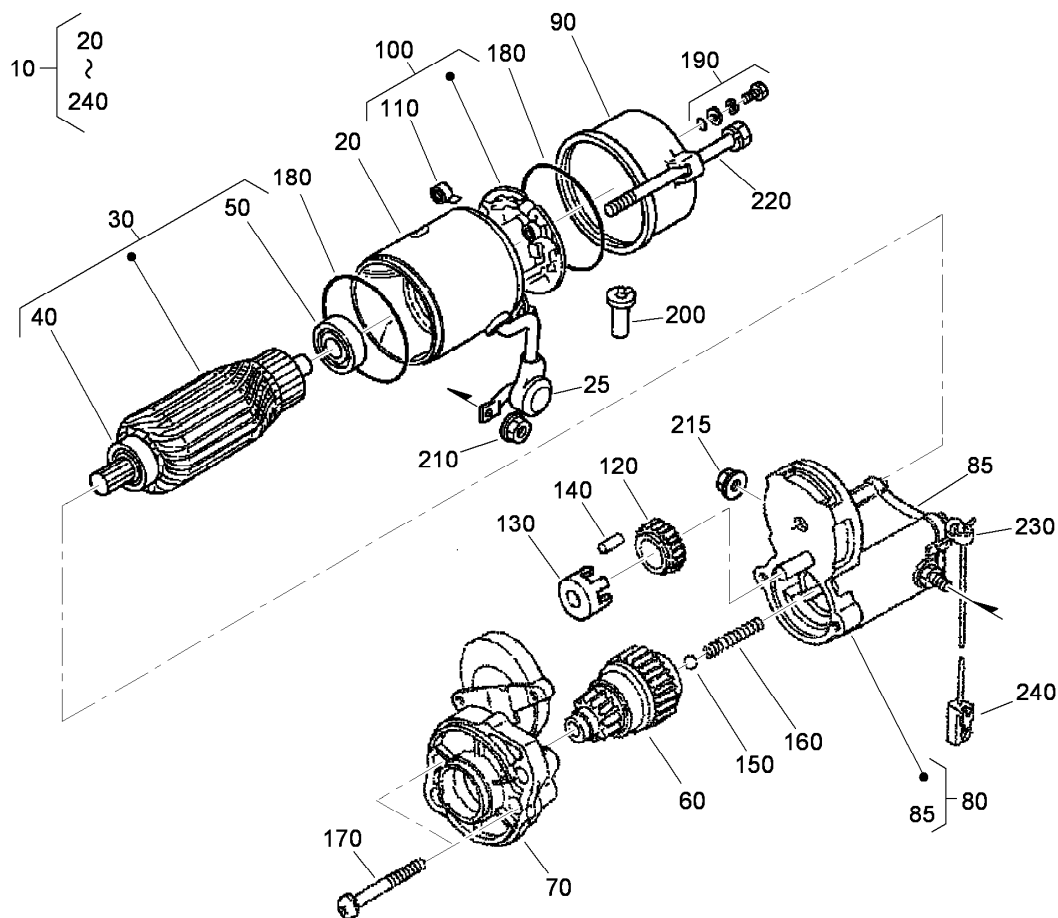
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 10   | 98-9474     | 1    | Alternator ASM    |
| 20   | 112-7047    | 1    | Stay-Dynamo       |
| 30   | 108-7088    | 1    | Bolt              |
| 40   | 98-9360     | 1    | Bolt              |
| 50   | 98-7737     | 1    | Nut               |
| 60   | 98-9366     | 1    | Washer-Plain      |
| 70   | 98-7738     | 1    | Washer-Spring     |
| 90   | 98-7692     | 1    | Bolt              |
| 100  | 98-9473     | 1    | Pulley-Drive, Fan |
| 110  | 98-9585     | 1    | Bolt              |
| 120  | 98-9676     | 1    | V-Belt            |
| 130  | 104-4246    | 1    | Fan-Engine        |
| 140  | 98-9584     | 1    | Pulley-Fan        |
| 150  | 33103-020   | 4    | Screw-HHF         |
| 160  | 108-2872    | 1    | Collar-Fan        |



## Alternator Components Assembly

| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 10   | 98-9474     | 1    | Alternator ASM      |
| 20   | 98-9453     | 1    | Pulley-Dynamo       |
| 30   | 98-7708     | 1    | Nut                 |
| 40   | 98-7709     | 1    | Collar              |
| 50   | 107-0136    | 1    | Rotor ASM           |
| 60   | 98-7711     | 1    | Cover-Bearing       |
| 70   | 107-0138    | 1    | Bearing-Ball        |
| 80   | 98-7713     | 1    | Washer-Thrust       |
| 90   | 107-0139    | 1    | Drive End Frame ASM |
| 100  | 98-7715     | 1    | Plate-Retainer      |
| 110  | 98-7716     | 4    | Screw-Head, Round   |
| 120  | 98-7717     | 2    | Bolt-Through        |
| 130  | 133-2811    | 1    | Bearing             |
| 140  | 107-9087    | 1    | Frame-End           |

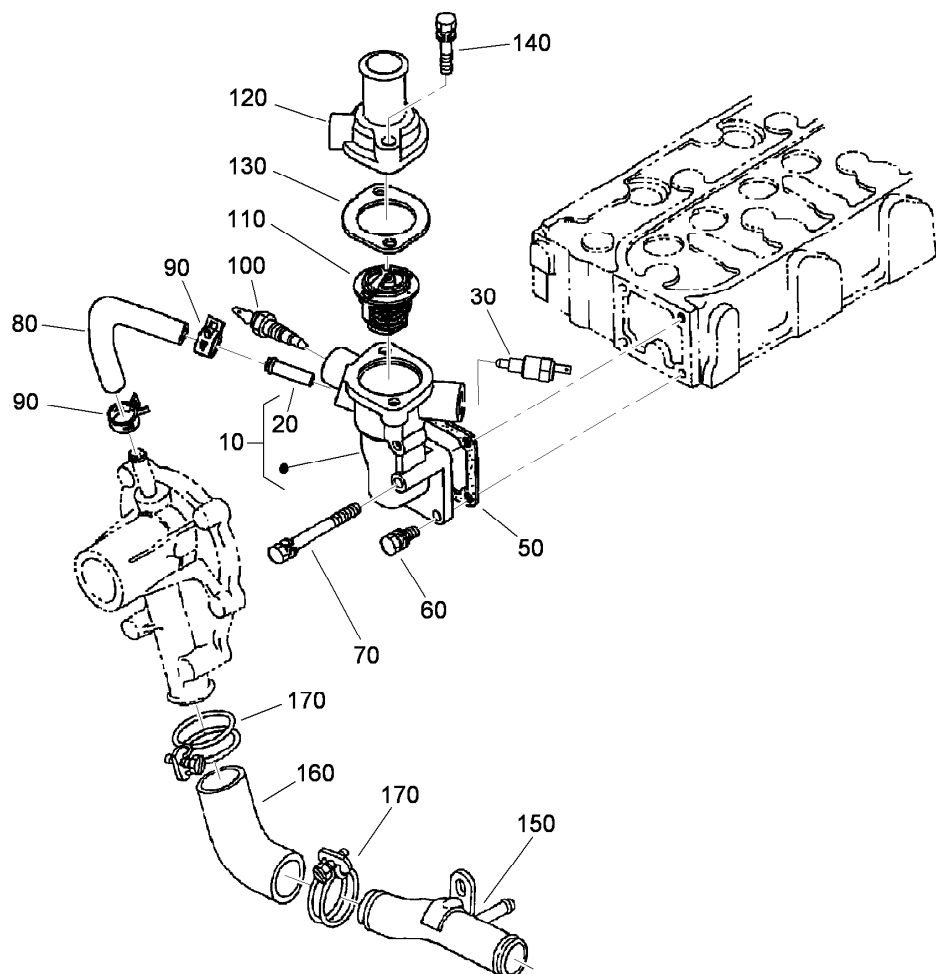
| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 150  | 107-0140    | 1    | Cover-End          |
| 160  | 98-7721     | 1    | Rectifier ASM      |
| 170  | 98-7722     | 1    | Bushing-Insulation |
| 180  | 107-0141    | 1    | Brush Holder ASM   |
| 190  | 98-7724     | 2    | Brush              |
| 200  | 98-7725     | 2    | Spring-Brush       |
| 210  | 98-7726     | 2    | Screw-Head, Round  |
| 220  | 98-7727     | 6    | Screw-Head, Round  |
| 230  | 98-7728     | 1    | Screw-Head, Round  |
| 240  | 98-7729     | 3    | Bolt               |
| 250  | 98-7730     | 2    | Nut                |
| 260  | 98-7731     | 2    | Bolt               |
| 270  | 98-7732     | 1    | Nut                |
| 280  | 110-3799    | 1    | Regulator ASM      |



## Starter (Component Part) Assembly No. 98-9705

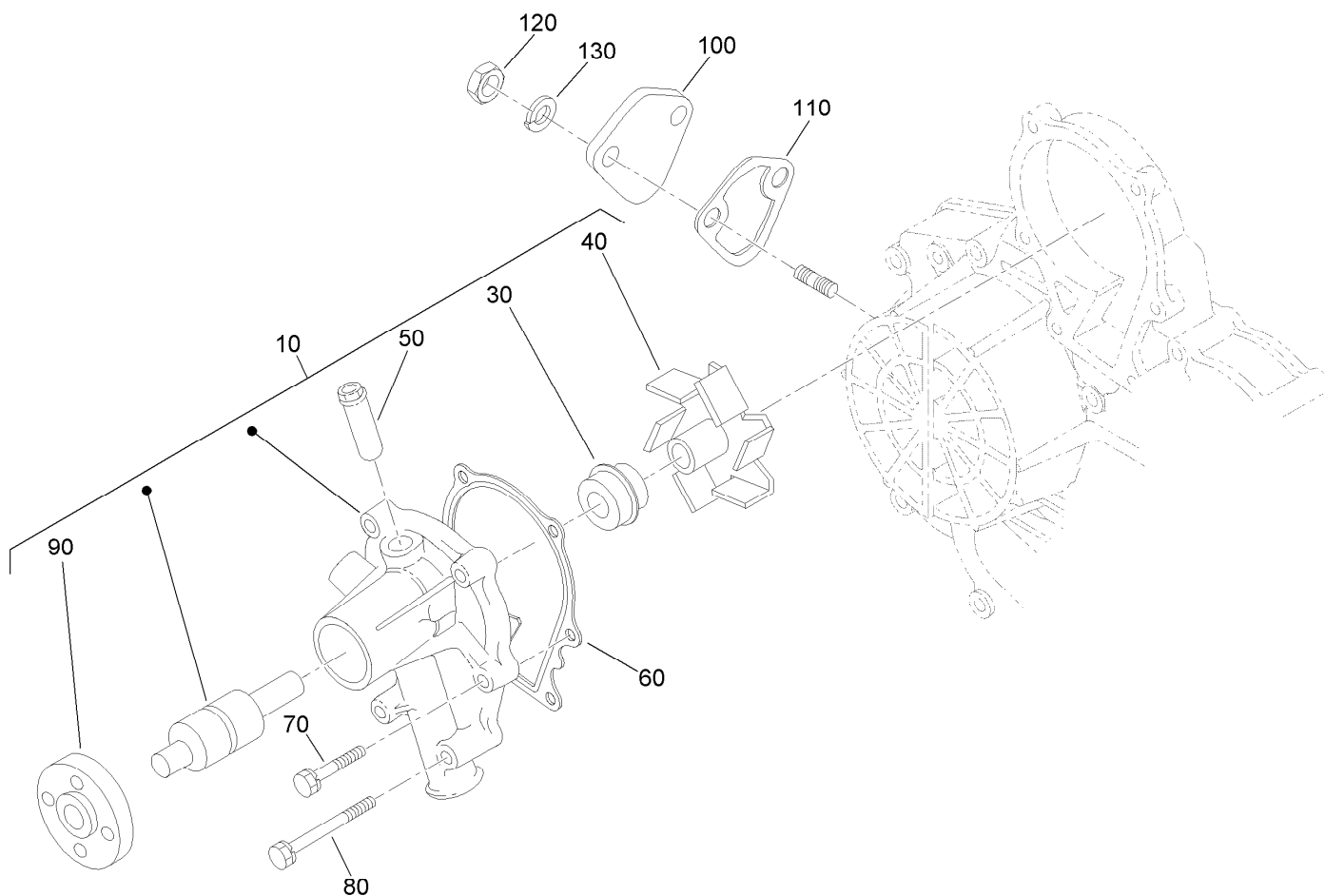
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 98-9705     | 1    | Starter ASM          |
| 20   | 104-8608    | 1    | Yoke ASM             |
| 25   | 99-8375     | 1    | Cover                |
| 30   | 98-7742     | 1    | Armature 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  |
| 85   | 105-2886    | 1    | Cover 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                 |

| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 130  | 98-7752     | 1    | Retainer            |
| 140  | 98-7753     | 5    | Roller              |
| 150  | 98-7755     | 1    | Ball                |
| 160  | 98-7754     | 1    | Spring              |
| 170  | 98-7756     | 2    | Bolt                |
| 180  | 98-7757     | 2    | O-Ring              |
| 190  | 98-7758     | 2    | Bolt ASM            |
| 200  | 98-7759     | 1    | Pipe-Drain          |
| 210  | 99-8371     | 1    | Nut-Hex             |
| 215  | 99-8376     | 1    | Nut-Hex             |
| 220  | 100-9240    | 2    | Bolt                |
| 230  | 98-9712     | 1    | Band-Cover          |
| 240  | 98-9711     | 1    | Cord-Solenoid, Stop |



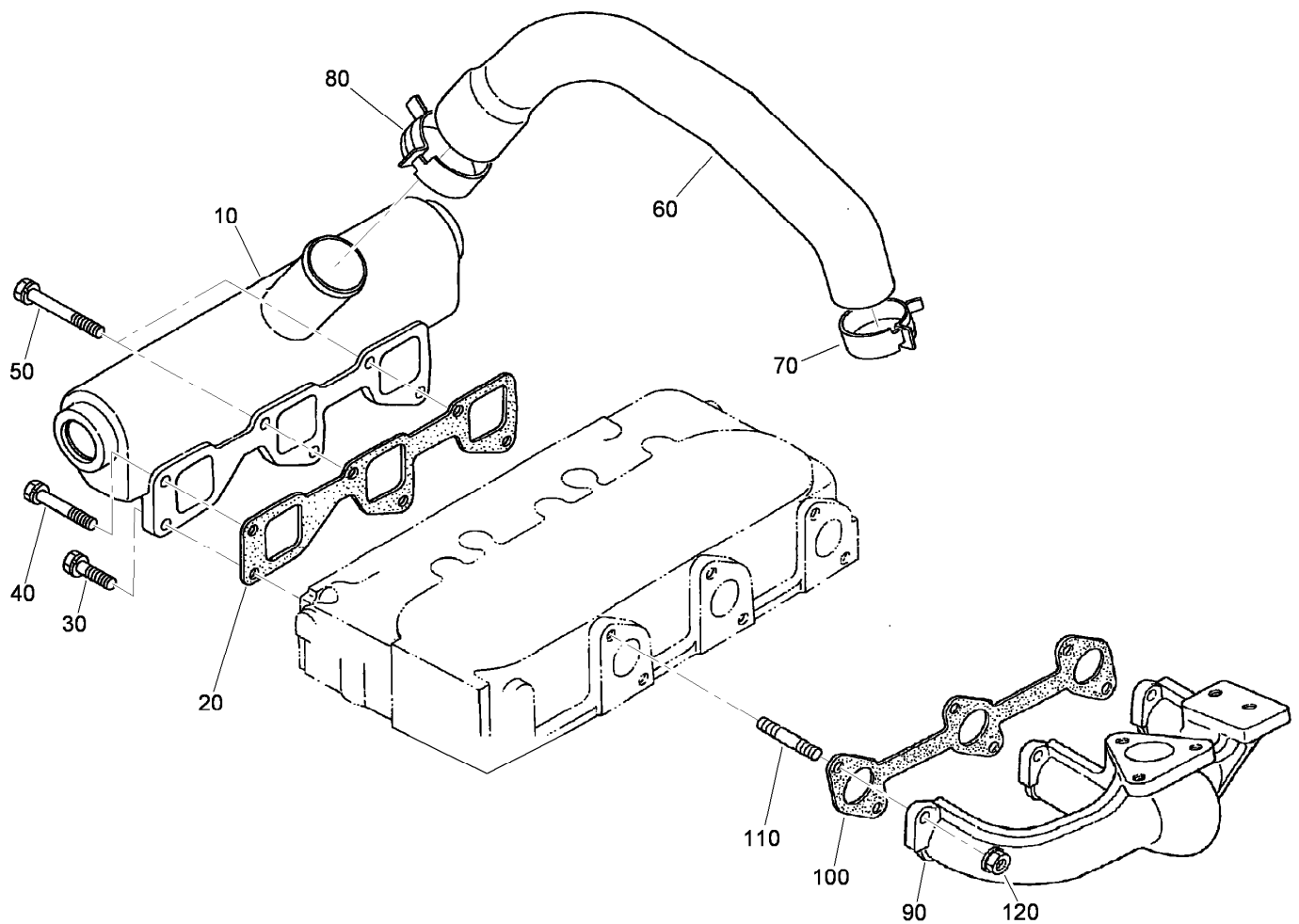
## Water Flange and Thermostat Assembly

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 98-9713     | 1    | Water Flange ASM     |
| 20   | 98-9580     | 1    | Pipe-Return, Water   |
| 30   | 98-9719     | 1    | Thermoswitch         |
| 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   | 98-9579     | 2    | Band-Pipe            |
| 100  | 112-0183    | 1    | Switch-Thermometer   |
| 110  | 98-7778     | 1    | Thermostat ASM       |
| 120  | 98-9471     | 1    | Cover-Thermostat     |
| 130  | 105-3748    | 1    | Gasket-Thermostat    |
| 140  | 98-7777     | 2    | Bolt                 |
| 150  | 99-8379     | 1    | Pipe-Water           |
| 160  | 107-9091    | 1    | Pipe-Water           |
| 170  | 98-9717     | 2    | Clamp                |



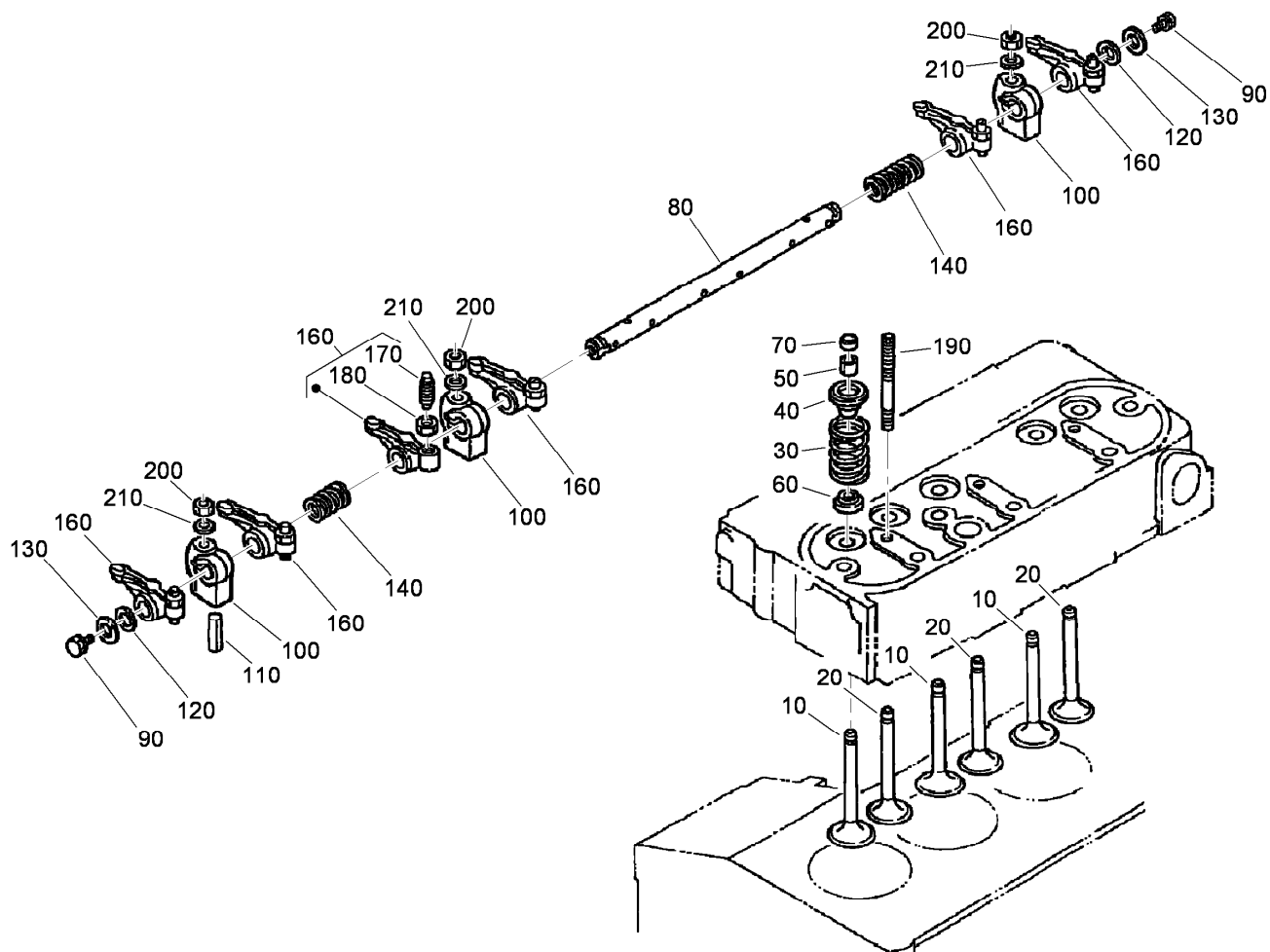
## Water Pump Assembly

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 107-9089    | 1    | Water Pump ASM       |
| 30   | 105-3750    | 1    | Mechanical Seal ASM  |
| 40   | 112-7017    | 1    | Impeller-Pump, Water |
| 50   | 100-1932    | 1    | Pipe-Return, Water   |
| 60   | 99-3454     | 1    | Gasket-Pump, Water   |
| 70   | 98-9353     | 4    | Bolt                 |
| 80   | 107-9090    | 2    | Bolt                 |
| 90   | 99-3516     | 1    | Flange-Pump, Water   |
| 100  | 99-3514     | 1    | Cover                |
| 110  | 98-9636     | 1    | Gasket-Pump, Fuel    |
| 120  | 98-7572     | 2    | Nut                  |
| 130  | 98-7699     | 2    | Washer-Spring        |



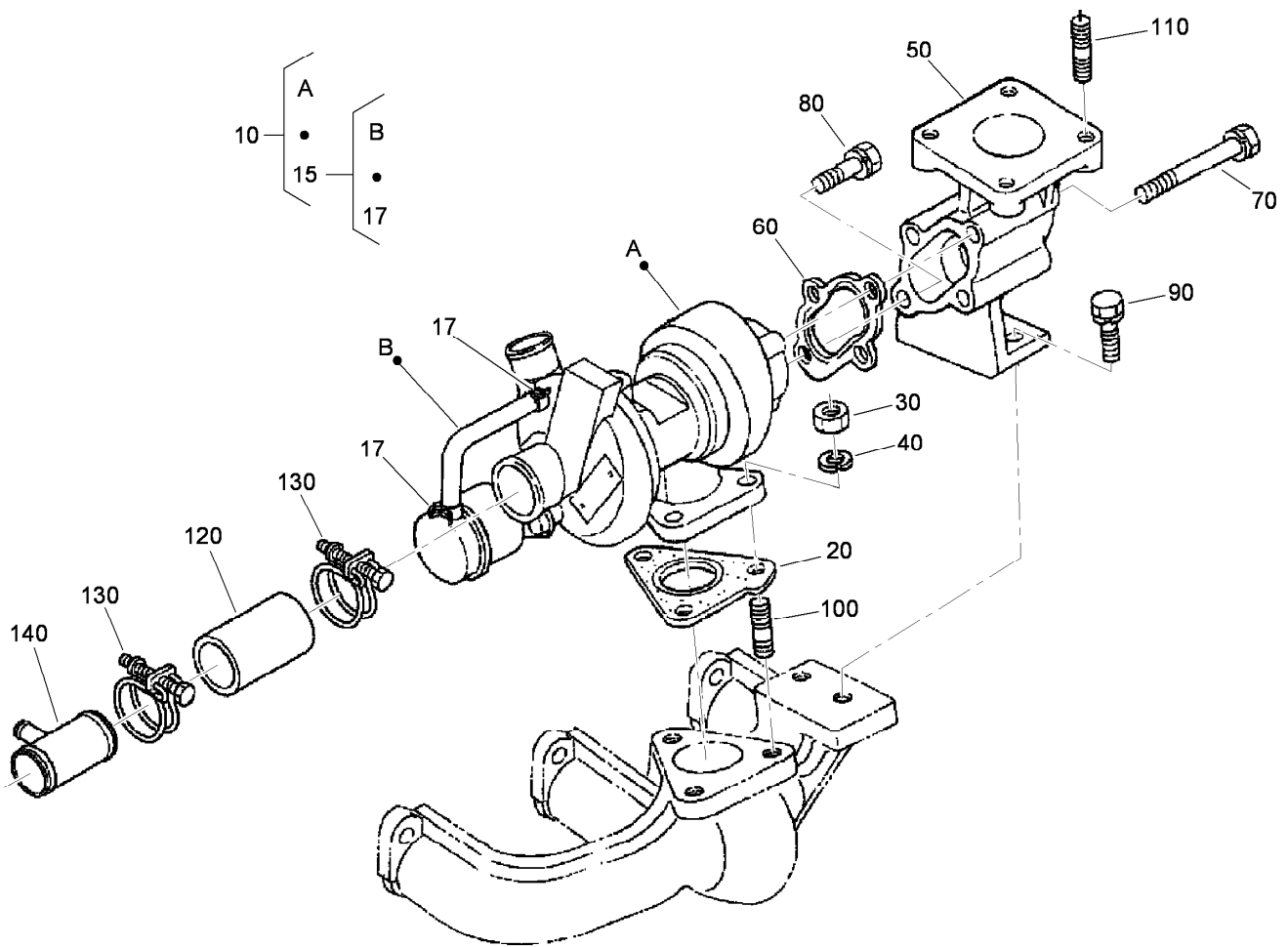
## Inlet and Exhaust Manifold Assembly

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 10   | 99-8321     | 1    | Manifold-Inlet           |
| 20   | 99-8329     | 1    | Gasket-Manifold, Intake  |
| 30   | 98-7568     | 3    | Bolt                     |
| 40   | 107-9073    | 1    | Bolt                     |
| 50   | 99-8320     | 2    | Bolt                     |
| 60   | 115-3047    | 1    | Hose-Inlet               |
| 70   | 115-3048    | 1    | Clamp-Hose               |
| 80   | 115-3049    | 1    | Clamp-Hose               |
| 90   | 108-1411    | 1    | Manifold-Exhaust         |
| 100  | 99-8327     | 1    | Gasket-Manifold, Exhaust |
| 110  | 98-9588     | 6    | Stud                     |
| 120  | 98-9665     | 6    | Nut                      |



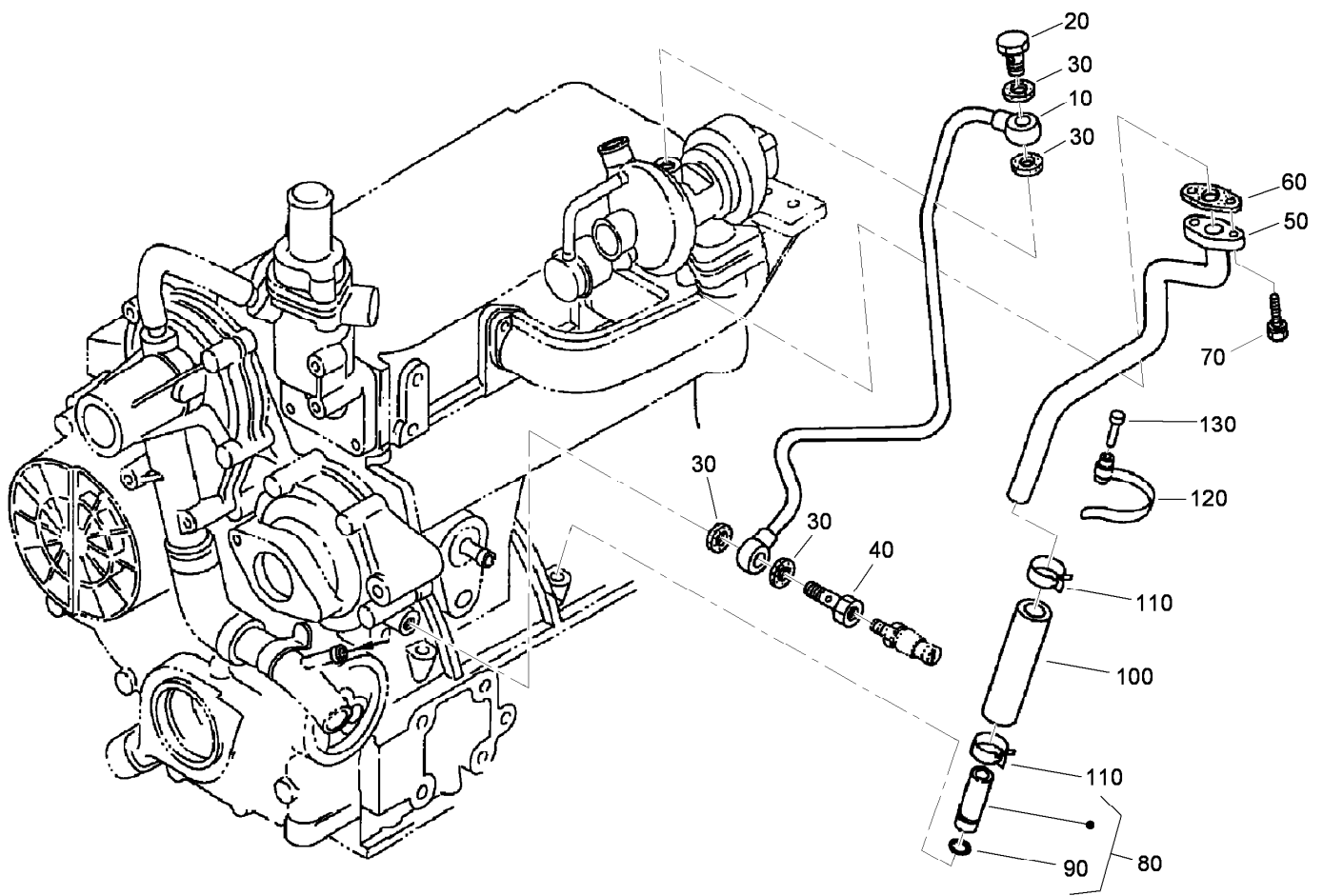
## Valve and Rocker Arm Assembly

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 10   | 112-7018    | 3    | Valve-Inlet              |
| 20   | 112-7019    | 3    | Valve-Exhaust            |
| 30   | 98-9626     | 6    | Spring-Valve             |
| 40   | 107-9092    | 6    | Retainer-Spring          |
| 50   | 98-9390     | 6    | Collet-Spring, Valve     |
| 60   | 99-8385     | 6    | Seal-Stem, Valve         |
| 70   | 98-9497     | 6    | Cap-Valve                |
| 80   | 105-3790    | 1    | R-Arm Shaft ASM          |
| 90   | 100-9265    | 2    | Bolt                     |
| 100  | 98-9505     | 3    | Bracket-Arm, Rocker      |
| 110  | 105-3758    | 1    | Pin-Spring               |
| 120  | 98-9507     | 2    | Washer-Shaft, Rocker Arm |
| 130  | 110-3832    | 2    | Washer-Plain             |
| 140  | 98-9504     | 2    | Spring-Arm, Rocker       |
| 160  | 112-7020    | 6    | Rocker Arm ASM           |
| 170  | 98-9502     | 6    | Screw-Adjusting          |
| 180  | 98-9503     | 6    | Nut                      |
| 190  | 98-9506     | 3    | Stud                     |
| 200  | 98-9393     | 3    | Nut                      |
| 210  | 98-9385     | 3    | Washer-Flat              |



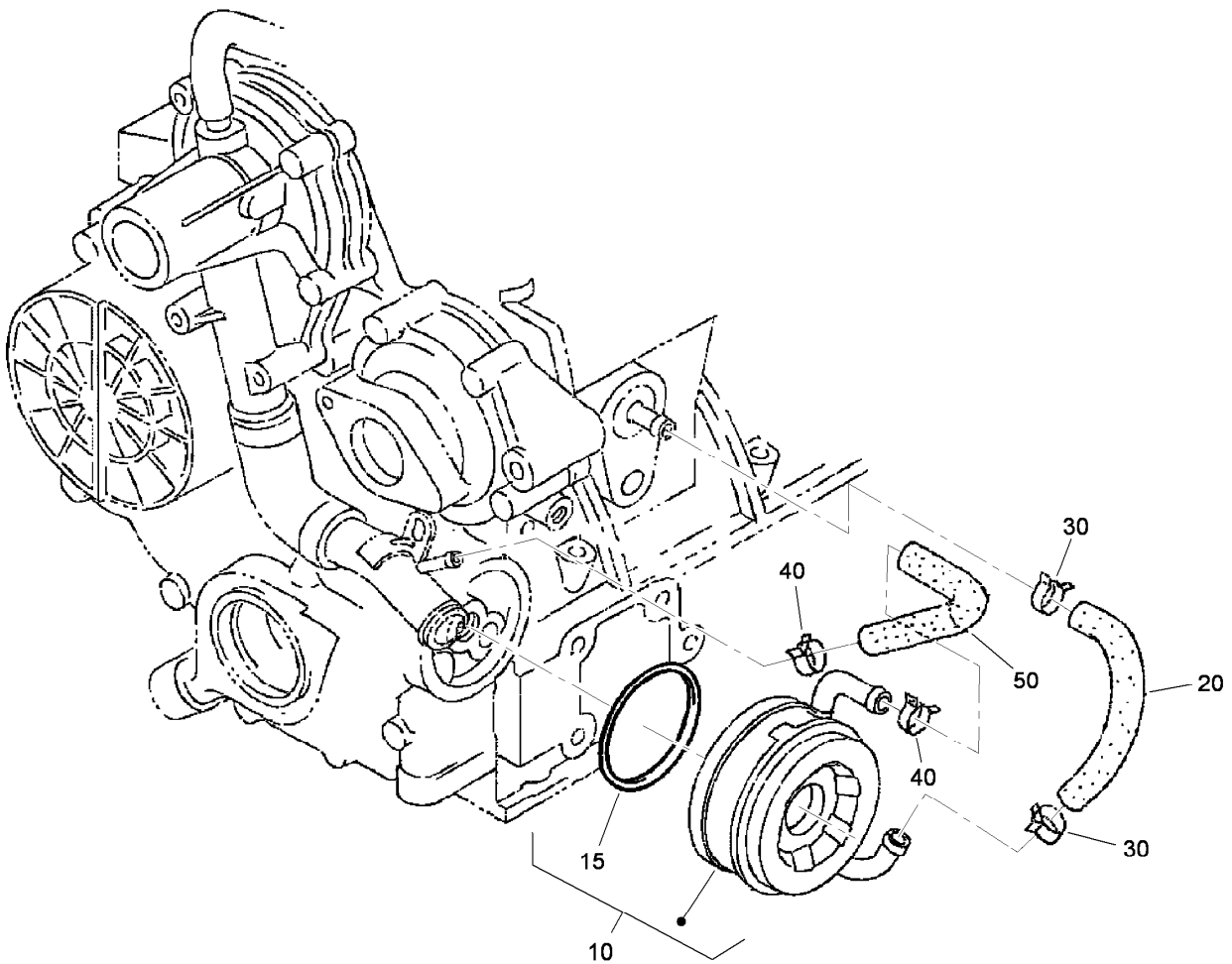
## Turbo Charger Assembly

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 10   | 108-1412    | 1    | Turbo Charger ASM    |
| 15   | 108-1413    | 1    | Hose ASM             |
| 17   | 108-1414    | 2    | Clamp-Hose           |
| 20   | 105-3767    | 1    | Gasket               |
| 30   | 98-7534     | 3    | Nut                  |
| 40   | 105-2893    | 3    | Washer-Spring        |
| 50   | 99-8335     | 1    | Flange-Muffler       |
| 60   | 105-3768    | 1    | Gasket               |
| 70   | 99-8336     | 3    | Bolt                 |
| 80   | 105-2895    | 1    | Bolt                 |
| 90   | 98-7610     | 2    | Bolt                 |
| 100  | 99-8342     | 3    | Stud                 |
| 110  | 98-7769     | 4    | Stud                 |
| 120  | 115-4101    | 1    | Tube-Inlet, Turbo    |
| 130  | 115-4102    | 2    | Band                 |
| 140  | 115-4103    | 1    | Pipe-Inlet, Breather |



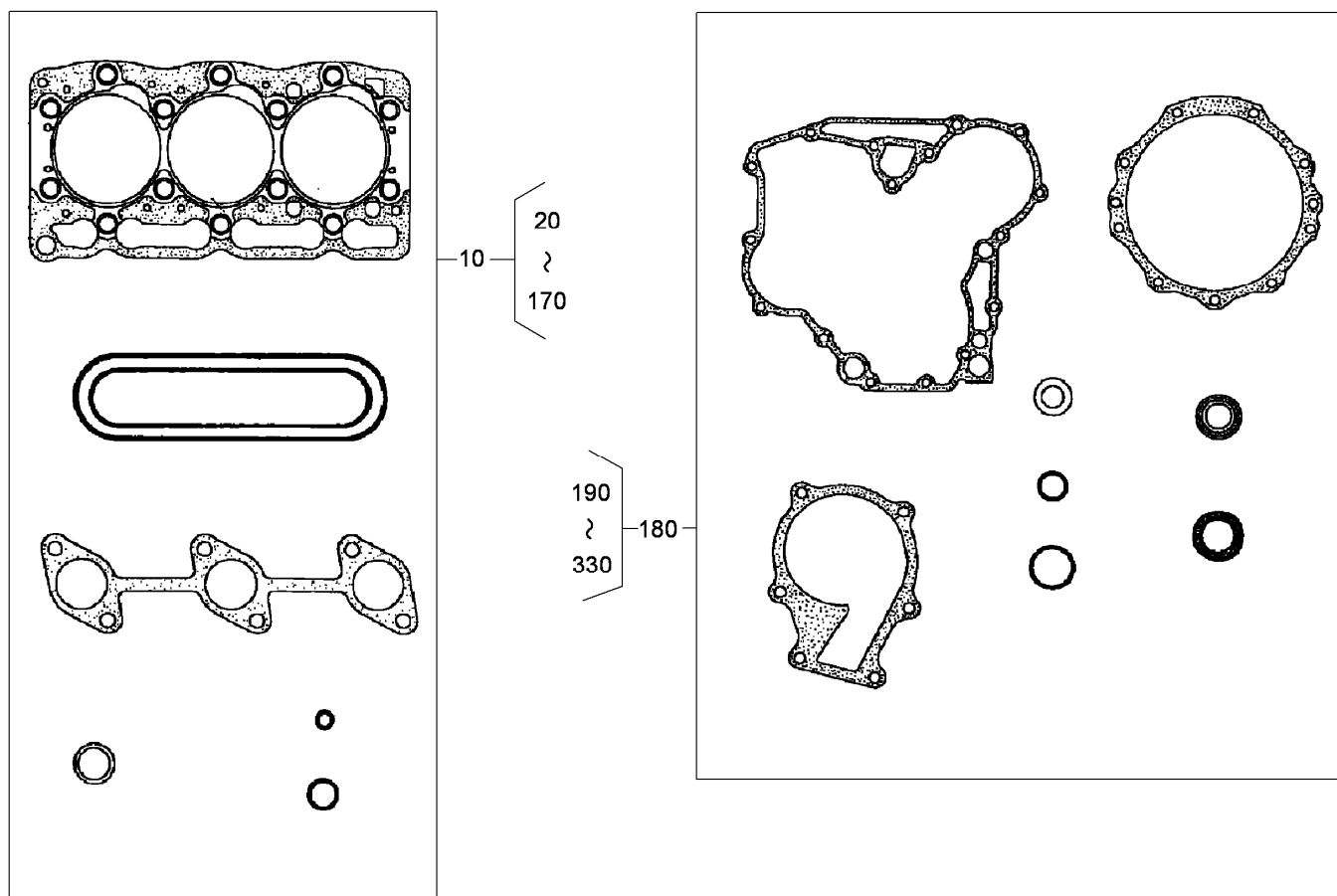
## Turbo Charger Oil Pipe Assembly

| Ref. | Part Number | Qty. | Description     |
|------|-------------|------|-----------------|
| 10   | 98-9419     | 1    | Oil Pipe ASM    |
| 20   | 98-9418     | 1    | Bolt-Joint, Eye |
| 30   | 99-8346     | 4    | Gasket          |
| 40   | 98-9417     | 1    | Bolt-Joint, Eye |
| 50   | 98-9461     | 1    | Pipe Line ASM   |
| 60   | 108-4422    | 1    | Gasket          |
| 70   | 98-7605     | 2    | Bolt            |
| 80   | 99-8383     | 1    | Oil Pipe ASM    |
| 90   | 98-9722     | 1    | O-Ring          |
| 100  | 98-9721     | 1    | Pipe-Oil        |
| 110  | 98-9714     | 2    | Clamp-Hose      |
| 120  | 98-9601     | 1    | Clamp-Pipe      |
| 130  | 98-9591     | 1    | Pin-Band        |



## Oil Cooler Assembly

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 10          | 104-5158           | 1           | Oil Cooler ASM     |
| 15          | 112-7030           | 1           | O-Ring             |
| 20          | 98-9724            | 1           | Pipe-Cooler, Oil   |
| 30          | 98-9579            | 2           | Band-Pipe          |
| 40          | 98-9579            | 2           | Band-Pipe          |
| 50          | 98-9578            | 1           | Pipe-Return, Water |

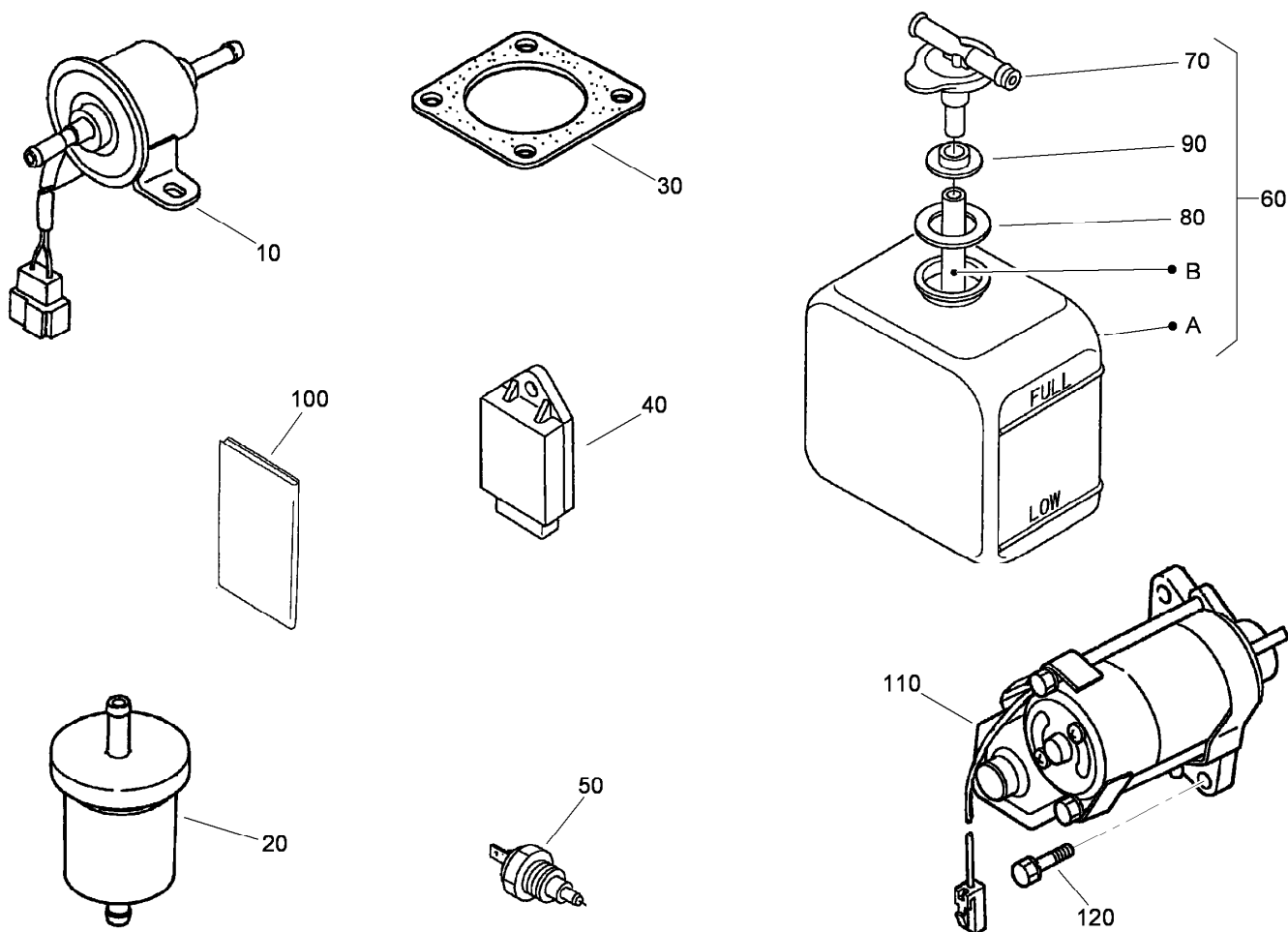


## Gasket Kit

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 10   | 108-1415    | 1    | Upper Gasket Kit           |
| 20   | 108-6573    | 1    | Gasket-Head, Cylinder ●    |
| 40   | 99-8329     | 1    | Gasket-Manifold, Intake ●  |
| 50   | 105-3767    | 1    | Gasket ●                   |
| 60   | 105-3768    | 1    | Gasket ●                   |
| 70   | 99-8327     | 1    | Gasket-Manifold, Exhaust ● |
| 80   | 99-8385     | 6    | Seal-Stem, Valve ●         |
| 90   | 98-9615     | 1    | Gasket-Cover, Head ●       |
| 100  | 98-9454     | 3    | Gasket ●                   |
| 110  | 99-3446     | 1    | O-Ring ●                   |
| 120  | 99-8346     | 4    | Gasket ●                   |
| 130  | 108-4422    | 1    | Gasket ●                   |
| 140  | 98-9722     | 1    | O-Ring ●                   |
| 150  | 98-9638     | 1    | Gasket-Flange, Water ●     |
| 160  | 105-3748    | 1    | Gasket-Thermostat ●        |
| 170  | 99-8343     | 1    | Gasket-Muffler ●           |
| 180  | 112-7041    | 1    | Lower Gasket Kit           |

| Ref. | Part Number | Qty. | Description                  |
|------|-------------|------|------------------------------|
| 190  | 98-9632     | 1    | Gasket-Pump, Water ●         |
| 200  | 98-9633     | 1    | Gasket-Case, Gear ●          |
| 210  | 105-3781    | 2    | O-Ring ●                     |
| 220  | 105-3777    | 2    | O-Ring ●                     |
| 230  | 98-9634     | 1    | Gasket-Case, Bearing ●       |
| 240  | 98-9635     | 1    | Gasket-Cover, Bearing Case ● |
| 250  | 105-3783    | 1    | O-Ring ●                     |
| 260  | 105-3776    | 1    | O-Ring ●                     |
| 270  | 98-9729     | 1    | O-Ring ●                     |
| 280  | 98-9636     | 1    | Gasket-Pump, Fuel ●          |
| 290  | 98-9682     | 1    | Gasket ●                     |
| 300  | 105-3788    | 1    | O-Ring ●                     |
| 310  | 98-7601     | 1    | Seal-Oil ●                   |
| 320  | 98-9637     | 1    | Gasket ●                     |
| 330  | 98-9683     | 1    | Gasket-Cover, Solenoid ●     |

● Not illustrated



## Electric Fuel Pump, Fuel Filter, Starter and Overflow Bottle Assemblies

| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 10   | 107-0122    | 1    | Pump-Fuel, Electric |
| 20   | 98-7612     | 1    | Filter-Fuel         |
| 30   | 99-8343     | 1    | Gasket-Muffler      |
| 40   | 98-7611     | 1    | Controller-Glow     |
| 50   | 98-9719     | 1    | Thermoswitch        |
| 60   | 108-0638    | 1    | Bottle-Overflow     |
| 70   | 105-3754    | 1    | Cap                 |
| 80   | 105-3755    | 1    | Gasket              |
| 90   | 105-3756    | 1    | Plate               |
| 100  | 115-4104    | 1    | Operator Manual     |
| 110  | 98-9705     | 1    | Starter ASM         |
| 120  | 98-7697     | 2    | Bolt                |

# Attachments and Accessories

## For 30487TC Groundsmaster 7210 Series Traction Unit

| Product Name                                                                     | Model/Part |
|----------------------------------------------------------------------------------|------------|
| Auxiliary Hydraulic Power Kit .....                                              | 30380      |
| Auxiliary Power Unit.....                                                        | 30382      |
| Blade Crate (Snowplow), ATV Poly S .....                                         | STB13567B  |
| Tooth Rake .....                                                                 | 08751      |
| Finish Grader .....                                                              | 08754      |
| Drag Mat Carrier System .....                                                    | 08756      |
| Steel Drag Mat.....                                                              | 08757      |
| Coco Drag Mat.....                                                               | 08758      |
| Premium Transmission/Hydraulic Tractor Fluid (55 Gallon Drum).....               | 108-1183   |
| Premium Transmission/Hydraulic Tractor Fluid (5 Gallon Pail) .....               | 108-1184   |
| Green Diesel Cap .....                                                           | 107-2172   |
| Yellow Hydraulic Cap .....                                                       | 107-1576   |
| 5in Air Cleaner Safety Element .....                                             | 114-4057   |
| Overflow Tank Kit.....                                                           | 117-5570   |
| Brake Service Kit .....                                                          | 120-0015   |
| Jack-Stand Kit .....                                                             | 30483      |
| Fender Kit .....                                                                 | 117-9170   |
| Premium Engine Oil 15w40 (5 Gallon Pail) .....                                   | 121-6395   |
| Polar Trac Cab.....                                                              | 30474      |
| Premium Engine Oil 15w40 (55 Gallon Drum) .....                                  | 121-6394   |
| V-Plow Mounting Kit.....                                                         | 30378      |
| Polar Trac Kit .....                                                             | 30675      |
| 48in V-Plow.....                                                                 | 30750      |
| TÜV Kit - German Vehicle Serial Plate .....                                      | 02983      |
| Plow Side Kit.....                                                               | MSC14175   |
| TÜV Kit Instructions .....                                                       | 111-5910   |
| TÜV Kit Instructions .....                                                       | 111-5243   |
| TÜV Kit - Speed Decal 20kph .....                                                | 02980      |
| Fuse-In Line.....                                                                | 111-5101   |
| CE Kit .....                                                                     | 30240      |
| Blade-Belt Kit, 72in Side Discharge Deck .....                                   | 105-7272   |
| Spark Arrestor Kit .....                                                         | 112-1688   |
| 42-Pound Weight.....                                                             | 114-4096   |
| 400-hour Filter Maintenance Kit.....                                             | 30052      |
| Rear QAS .....                                                                   | 30812      |
| 60-Amp Alternator Kit, Kubota 05 Series-Powered Traction Unit .....              | 117-5540   |
| Hitch Kit, Groundsmaster 7200/7210 Series Traction Unit with Kubota Engine ..... | 130-8717   |
| Hitch Kit .....                                                                  | 130-8718   |
| Wheel and Tire ASM .....                                                         | 110-6406   |
| Semi-Gloss Black Spray Paint.....                                                | 361-9      |
| Weight Mount Bracket Kit .....                                                   | 114-4090   |
| Dark Metallic Gray Aerosol Paint .....                                           | 361-12     |
| Weight Bracket Kit .....                                                         | 125-2670   |
| New Red Paint - Gallon .....                                                     | 361-11     |
| Universal Sunshade .....                                                         | 30349      |
| Air Dry Red Paint - Qt .....                                                     | 5340       |

## Attachments and Accessories (continued)

|                                                          |          |
|----------------------------------------------------------|----------|
| Tire-Lug .....                                           | 103-6771 |
| Slow Moving Vehicle Kit.....                             | 114-4050 |
| North American Road Light Kit .....                      | 30374    |
| Recycler Kit, 60in Side Discharge Deck.....              | 30348    |
| CE Kit, Grass Collection System.....                     | 117-9249 |
| 60in Side Discharge Mower .....                          | 30456    |
| Baffle, Blower Housing .....                             | 30658    |
| Blade-Belt Kit.....                                      | 105-7270 |
| 62in Rear Discharge Completion Kit .....                 | 30463    |
| 62in Guardian Recycler Completion Kit .....              | 30306    |
| 62in Rotary Mower.....                                   | 30457    |
| 62in CE Mower Cover Kit.....                             | 30683    |
| Blade-Belt Kit, 72in Guardian Only .....                 | 105-7271 |
| 72in Rear Discharge Completion Kit .....                 | 30466    |
| 72in Guardian Recycler Completion Kit .....              | 30304    |
| 72in Guardian Fine Recycler Completion Kit .....         | 30346    |
| 72in Base Deck.....                                      | 30353    |
| 72in Guardian and Rear Discharge CE Mower Cover Kit..... | 30685    |
| Leaf Mulching Kit .....                                  | 108-5273 |
| Recycler Kit, 72in Side Discharge Deck.....              | 30347    |
| Striping Kit .....                                       | 105-7273 |
| 72in Side Discharge Deck.....                            | 30481    |
| 72in Side Discharge Mower (CE).....                      | 30354    |
| CE Kit, 72in Side Deck With French Guards .....          | 30679    |
| 100in Rear Discharge Deck .....                          | 31101    |
| Adapter Kit for 100in Rear Discharge Deck.....           | 31104    |
| Leaf Mulching Kit for 100in Rear Discharge Deck .....    | 31105    |
| 100in CE Mower Cover Kit.....                            | 30687    |

**Notes:**

**Notes:**



**Count on it.**