



## Groundsmaster® 7210 with 72in Side Discharge Mower

Model No. 30363 - 290000001 and up.

### Parts Catalog

#### 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 illustrations and in part lists.

#### Reference Numbers Indicating Quantity

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

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

# Contents

| <b>Description</b>                                         | <b>Page</b> | <b>Description</b>                                                      | <b>Page</b> |
|------------------------------------------------------------|-------------|-------------------------------------------------------------------------|-------------|
| Frame Assembly                                             | ..... 4     | Deck Decal Assembly No. 108-9901                                        | ..... 40    |
| Radiator Assembly                                          | ..... 5     | Spindle Assembly No. 108-1957                                           | ..... 41    |
| Control Panel Assembly                                     | ..... 6     | Spindle Assembly No. 110-6382                                           | ..... 42    |
| Transmission Assembly                                      | ..... 7     | Spindle Assembly No. 110-6381                                           | ..... 43    |
| Hydraulic Gear Pump Assembly No. 112-9542                  | ..... 8     | Roller and Baffle Assembly                                              | ..... 44    |
| Charge Pump Housing Assembly                               |             | Spindle and Blade Assembly                                              | ..... 45    |
| Transmission Assembly No. 107-0801                         | ..... 9     | Belt Cover, Gearbox and Baffle Assembly                                 | ..... 46    |
| Center Section Assembly Transmission Assembly No. 107-0801 | ..... 10    | Rubber Deflector Assembly No. 108-2792                                  | ..... 47    |
| Gear Case and Clutch Assembly                              |             | Gearbox Assembly No. 110-6386-03                                        | ..... 48    |
| Transmission Assembly No. 107-0801                         | ..... 11    | Adjustment Link and Bumper Assembly                                     | ..... 49    |
| Traction Control Assembly                                  | ..... 12    | Crankcase Assembly                                                      | ..... 50    |
| Engine Component Assembly                                  | ..... 13    | Oil Pan Assembly                                                        | ..... 51    |
| Air Cleaner Assembly No. 104-3428                          | ..... 14    | Cylinder Head Assembly                                                  | ..... 52    |
| Engine, Muffler and Shield Assembly                        | ..... 15    | Head Cover Assembly                                                     | ..... 53    |
| Hydraulic Assembly                                         | ..... 16    | Gear Case Assembly                                                      | ..... 54    |
| Parking Brake Assembly                                     | ..... 17    | Main Bearing Case Assembly                                              | ..... 55    |
| Electrical Assembly                                        | ..... 18    | Camshaft and Idle Gear Shaft Assembly                                   | ..... 56    |
| Hood Assembly                                              | ..... 19    | Piston and Crankshaft Assembly                                          | ..... 57    |
| Fuel Tank Assembly                                         | ..... 20    | Flywheel Assembly                                                       | ..... 58    |
| LH Fuel Tank Assembly No. 110-8230                         | ..... 21    | Fuel Camshaft and Governor Shaft Assembly                               | ..... 59    |
| RH Fuel Tank Assembly No. 110-8236                         | ..... 22    | Idle Apparatus Assembly                                                 | ..... 60    |
| Seat Assembly                                              | ..... 23    | Injection Pump Assembly                                                 | ..... 61    |
| Seat Assembly No. 107-2286                                 | ..... 24    | Governor Assembly                                                       | ..... 62    |
| Driveshaft Assembly                                        | ..... 25    | Speed Control Plate Assembly                                            | ..... 63    |
| Driveshaft Assembly No. 110-3575                           | ..... 26    | Nozzle Holder and Glow Plug Assembly                                    | ..... 64    |
| Rear Drive Assembly                                        | ..... 27    | Nozzle Holder Assembly                                                  | ..... 65    |
| Hydraulic Motor Assembly No. 108-5230                      | ..... 28    | Alternator and Pulley Assembly                                          | ..... 66    |
| Hydraulic Motor Assembly No. 108-5155                      | ..... 29    | Alternator Components Assembly                                          | ..... 67    |
| Carrier Frame and Valve Assembly                           | ..... 30    | Starter (Component Part) Assembly No. 98-9705                           | ..... 68    |
| Carrier Frame Kit Assembly No. 114-4087                    | ..... 31    | Water Flange and Thermostat Assembly                                    | ..... 69    |
| Carrier Frame Assembly No. 112-1631                        | ..... 32    | Water Pump Assembly                                                     | ..... 70    |
| Hydraulic Cylinder Assembly No. 110-9834                   | ..... 33    | Inlet and Exhaust Manifold Assembly                                     | ..... 71    |
| Hydraulic Valve Assembly No. 114-2877                      | ..... 34    | Valve and Rocker Arm Assembly                                           | ..... 72    |
| Caster Fork Assembly                                       | ..... 35    | Turbo Charger Assembly                                                  | ..... 73    |
| Caster Wheel Assembly No. 108-9954                         | ..... 36    | Turbo Charger Oil Pipe Assembly                                         | ..... 74    |
| Deck Linkage Assembly                                      | ..... 37    | Oil Cooler Assembly                                                     | ..... 75    |
| Roll-Over Protection System and Rear Wheel Assembly        | ..... 38    | Gasket Kit                                                              | ..... 76    |
| Belt and Pulley Assembly                                   | ..... 39    | Electric Fuel Pump, Fuel Filter, Starter and Overflow Bottle Assemblies | ..... 77    |
|                                                            |             | Attachments and Accessories List                                        | ..... 78    |

# Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

|             |                                |             |                                  |
|-------------|--------------------------------|-------------|----------------------------------|
| AR. ....    | as required                    | HYD. ....   | hydraulic                        |
| ASM. ....   | assembly                       | LH. ....    | left hand                        |
| BBC. ....   | blade brake clutch             | NI. ....    | nylon insert                     |
| CARR. ....  | carriage                       | NPTF. ....  | national pipe thread fine        |
| DEG. ....   | degrees                        | PFH. ....   | phillips flat head               |
| EXT. ....   | external                       | PPH. ....   | phillips pan head                |
| FH. ....    | flat head                      | PPHTF. .... | phillips pan head thread forming |
| GA. ....    | gauge                          | PRH. ....   | phillips round head              |
| HD. ....    | heavy-duty                     | PTH. ....   | phillips truss head              |
| HF. ....    | hex flange                     | PTO. ....   | power-take-off                   |
| HH. ....    | hex head                       | RH. ....    | right hand                       |
| HHF. ....   | hex head flange                | ROPS. ....  | roll-over protection system      |
| HHFTF. .... | hex head flange thread forming | SFH. ....   | slotted fillister head           |
| HJ. ....    | hex jam                        | SHH. ....   | slotted hex head                 |
| HLH. ....   | hex lag head                   | SHWH. ....  | slotted hex washer head          |
| HOC. ....   | height-of-cut                  | SPH. ....   | slotted pan head                 |
| HSBH. ....  | hex socket button head         | SQH. ....   | square head                      |
| HSFH. ....  | hex socket flat head           | SRH. ....   | slotted round head               |
| HSH. ....   | hex socket head                | STD. ....   | standard                         |
| HWH. ....   | hex washer head                | TAP. ....   | self tapping                     |
| HWHTF. .... | hex washer head thread forming | TTH. ....   | torx truss head                  |

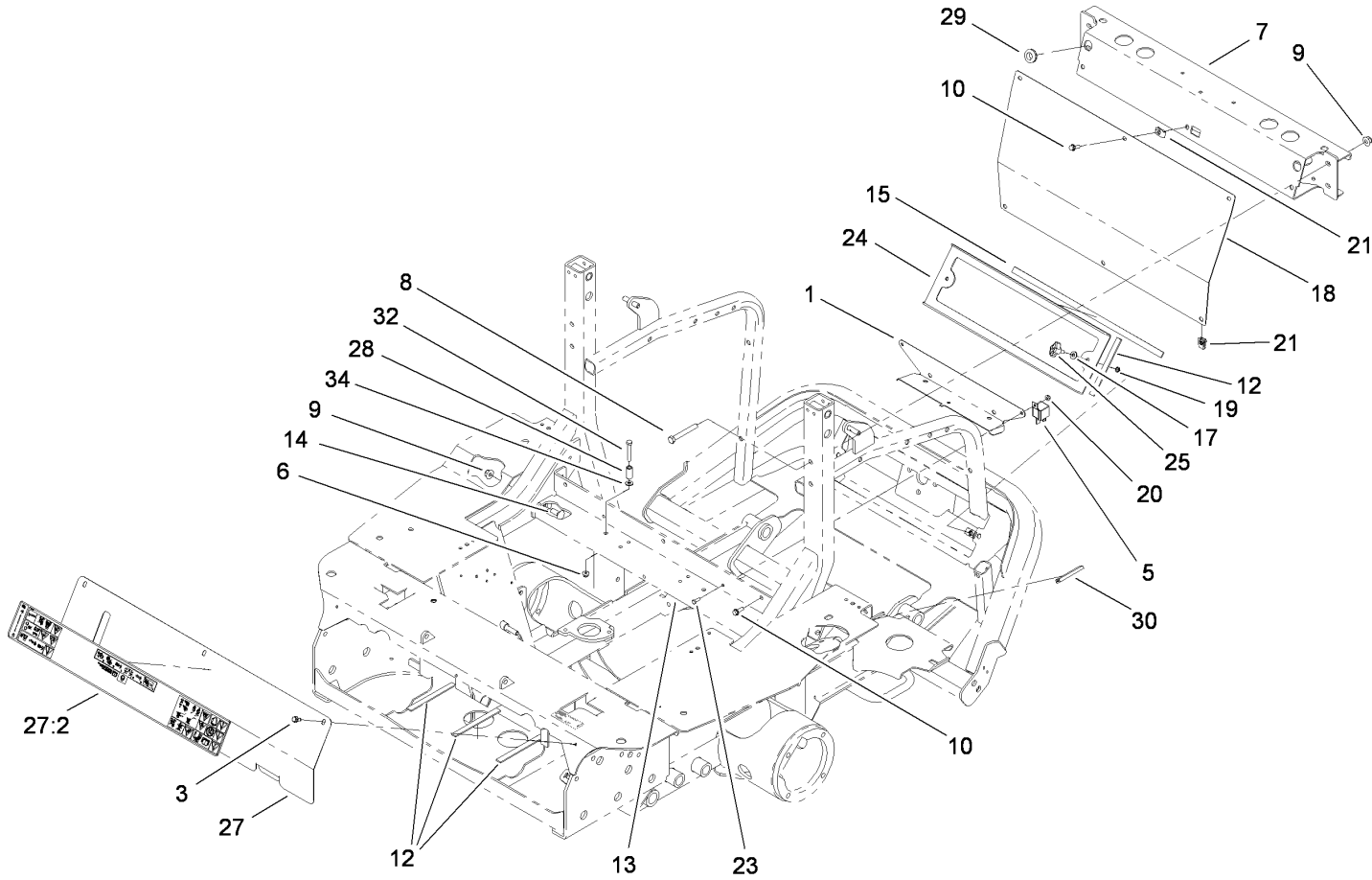
## Footnotes

- ❶

Not illustrated
- ❷

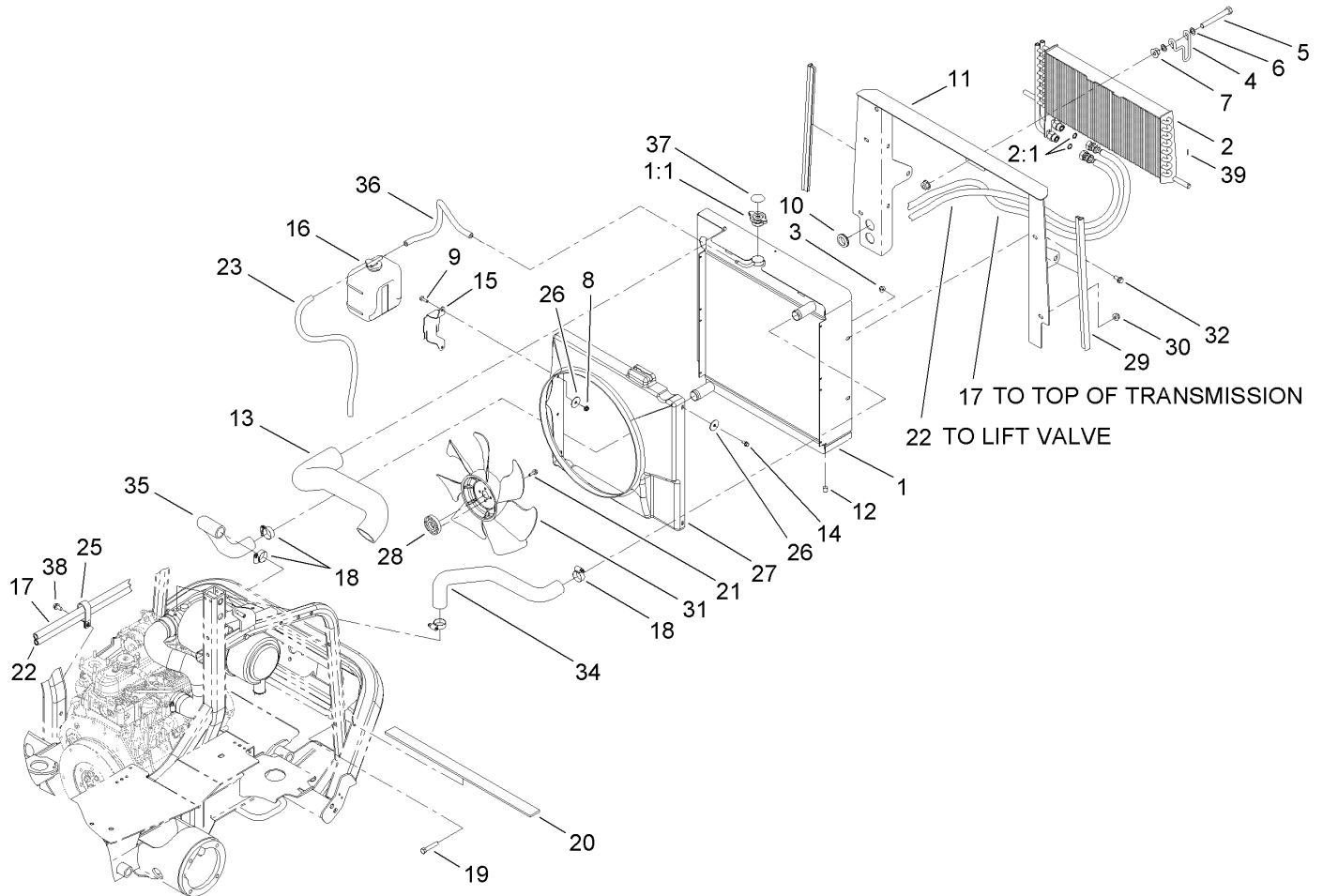
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Optional Equipment



Frame Assembly

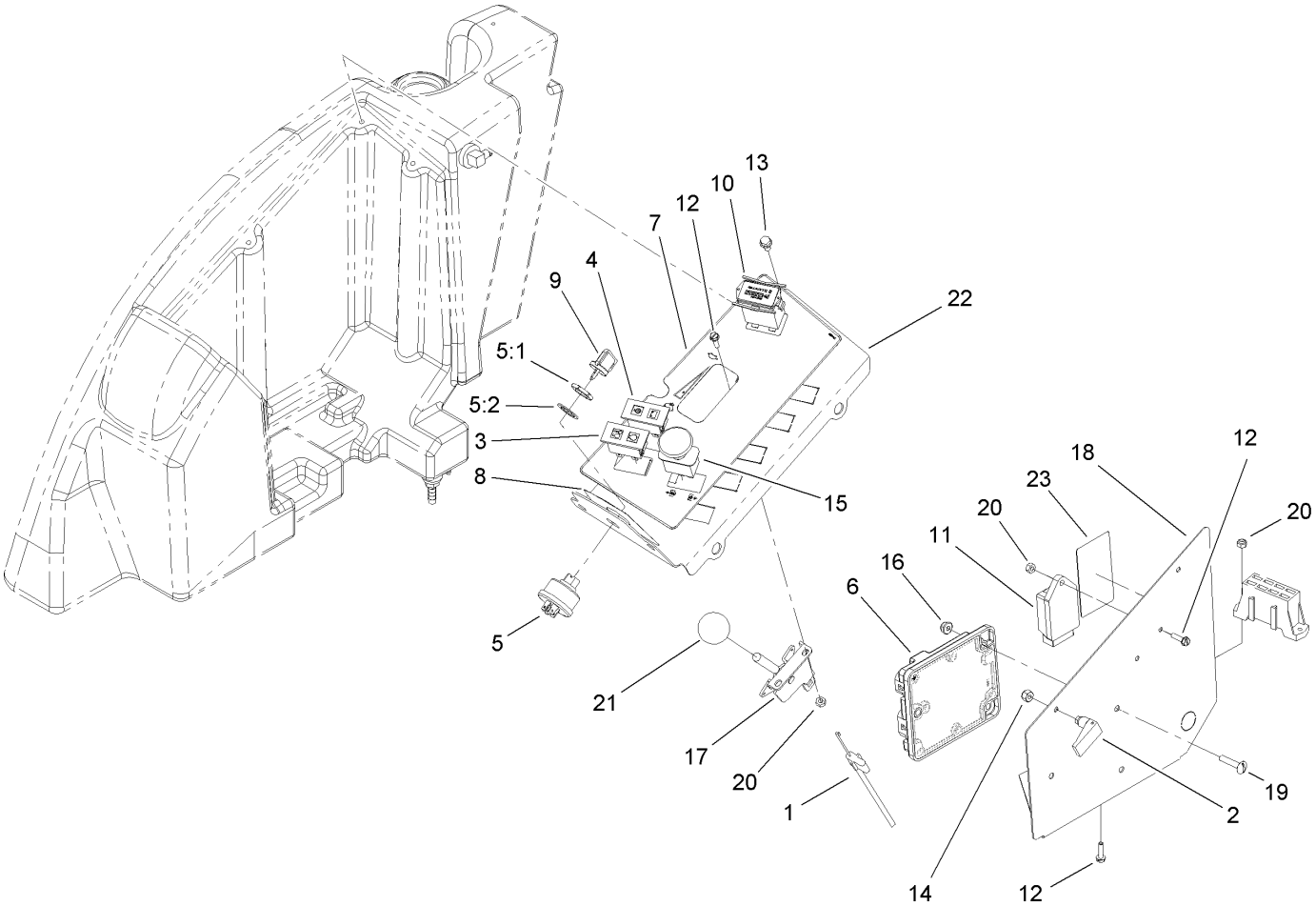
| Ref  | Part No.    | Qty. | Description     | Ref | Part No. | Qty. | Description             |
|------|-------------|------|-----------------|-----|----------|------|-------------------------|
| 1    | 114-4055-03 | 1    | Bracket-Wire    | 30  | 110-8276 | 1    | Trim-Hold Down, Battery |
| 3    | 32144-10    | 3    | Screw-HWH       | 32  | 321-10   | 2    | Screw-HH                |
| 5    | 99-7435     | 1    | Relay-Power     | 34  | 3256-22  | 2    | Washer-Flat             |
| 6    | 104-7201    | 2    | Nut-HF          |     |          |      |                         |
| 7    | 112-6361-03 | 1    | Crossmember ASM |     |          |      |                         |
| 8    | 323-13      | 4    | Screw-HH        |     |          |      |                         |
| 9    | 104-8301    | 8    | Nut-Flange, NI  |     |          |      |                         |
| 10   | 3234-4      | 6    | Screw-HHF       |     |          |      |                         |
| 12   | 105-0778    | 5    | Strip-Foam      |     |          |      |                         |
| 13   | 105-7296-03 | 1    | Support-Seat    |     |          |      |                         |
| 14   | 3231-2      | 4    | Screw-CARR      |     |          |      |                         |
| 15   | 112-6387    | 2    | Strip-Foam      |     |          |      |                         |
| 17   | 3256-22     | 2    | Washer-Flat     |     |          |      |                         |
| 18   | 112-6367-03 | 1    | Panel-Rear      |     |          |      |                         |
| 19   | 32151-106   | 2    | Ring-Retaining  |     |          |      |                         |
| 20   | 3290-148    | 2    | Nut-HF          |     |          |      |                         |
| 21   | 107069      | 8    | Clip            |     |          |      |                         |
| 23   | 3290-134    | 2    | Screw           |     |          |      |                         |
| 24   | 112-6384-03 | 1    | Screen ASM      |     |          |      |                         |
| 25   | 98-8332     | 2    | Knob            |     |          |      |                         |
| 27   | 110-9794    | 1    | Cover-Front     |     |          |      |                         |
| 27:2 | 110-9772    | 1    | Decal-Safety    |     |          |      |                         |
| 28   | 95-5807     | 2    | Spacer          |     |          |      |                         |
| 29   | 237-124     | 2    | Grommet         |     |          |      |                         |



## Radiator Assembly

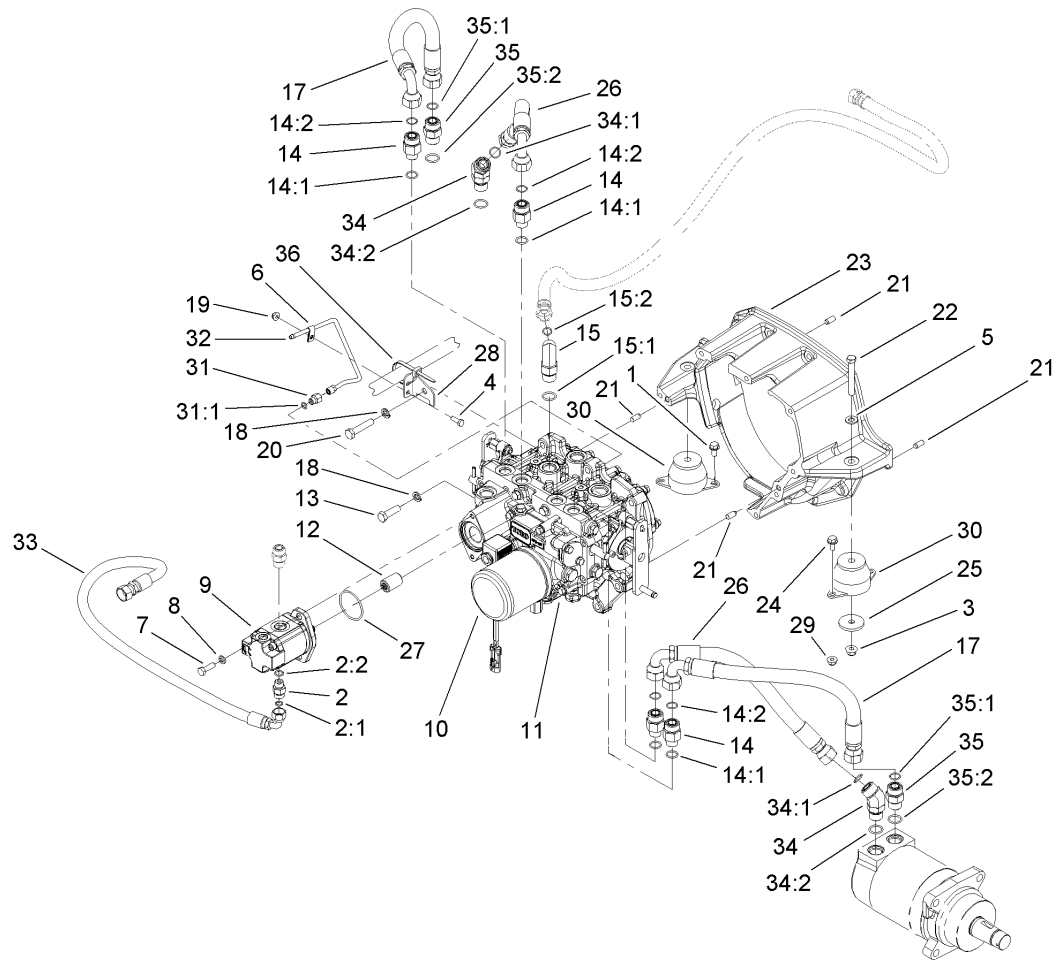
| Ref | Part No.    | Qty. | Description           |
|-----|-------------|------|-----------------------|
| 1   | 99-3637     | 1    | Radiator              |
| 1:1 | 93-5957     | 1    | Cap-Radiator          |
| 2   | 112-1684    | 1    | Cooler-Oil            |
| 2:1 | 237-30      | 2    | O-Ring                |
| 3   | 104-8300    | 4    | Nut-Flange, NI        |
| 4   | 104-5429    | 1    | Clamp-Form, Wire      |
| 5   | 325-17      | 1    | Screw-HH              |
| 6   | 41-8440     | 2    | Washer                |
| 7   | 32128-49    | 2    | Nut-HHF               |
| 8   | 104-7201    | 2    | Nut-HF                |
| 9   | 321-4       | 2    | Screw-HH              |
| 10  | 240-5       | 2    | Grommet-Rubber        |
| 11  | 110-8277-03 | 1    | Frame-Radiator        |
| 12  | 99-8551     | 1    | Plug-Pipe             |
| 13  | 105-7281    | 1    | Hose-Air Inlet, Upper |
| 14  | 32104-116   | 4    | Screw                 |
| 15  | 108-9930-03 | 1    | Bracket-Bottle        |
| 16  | 108-0638    | 1    | Bottle-Overflow       |
| 17  | 110-5542    | 1    | HYD Hose ASM          |
| 18  | 2412-34     | 4    | Clamp-Hose            |
| 19  | 323-10      | 4    | Screw-HH              |
| 20  | 108-9935    | 1    | Strip-Foam            |
| 21  | 33103-020   | 4    | Screw-HHF             |
| 22  | 110-5543    | 1    | HYD Hose ASM          |

| Ref | Part No.  | Qty. | Description          |
|-----|-----------|------|----------------------|
| 23  | 108-3284  | 1    | Hose-Fuel            |
| 25  | 2412-137  | 1    | Clamp-R, Double      |
| 26  | 3256-55   | 6    | Washer-Flat          |
| 27  | 108-9927  | 1    | Shroud-Fan           |
| 28  | 104-4247  | 1    | Spacer-Fan           |
| 29  | 107-2269  | 2    | Seal-Bulb            |
| 30  | 104-8301  | 4    | Nut-Flange, NI       |
| 31  | 104-4246  | 1    | Fan-Engine           |
| 32  | 3234-5    | 4    | Screw-HHF            |
| 34  | 105-7282  | 1    | Hose-Radiator, Upper |
| 35  | 105-7283  | 1    | Hose-Radiator, Lower |
| 36  | 109-0274  | 1    | Hose-Fuel            |
| 37  | 106-6755  | 1    | Decal-Cap, Radiator  |
| 38  | 32144-14  | 1    | Screw-HWHTF          |
| 39  | 32121-107 | 1    | Pin-Roll, Slotted    |



Control Panel Assembly

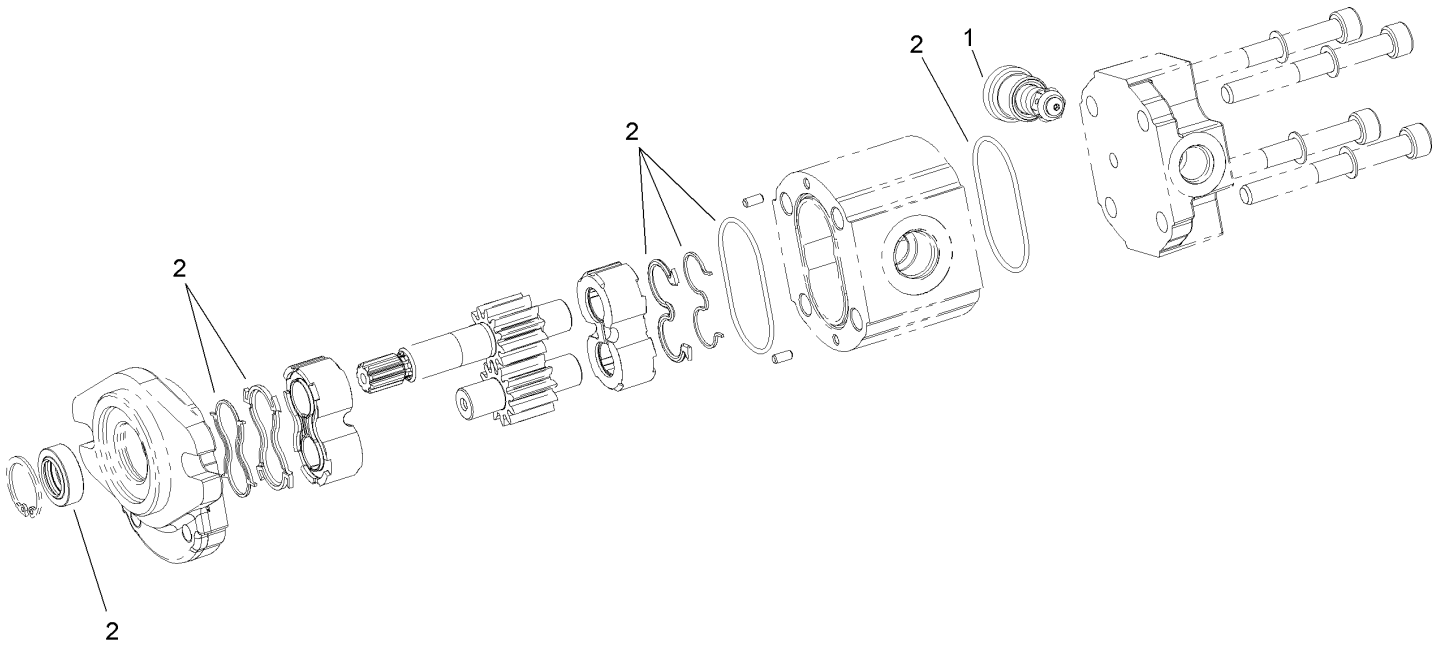
| Ref | Part No.    | Qty. | Description                | Ref | Part No. | Qty. | Description       |
|-----|-------------|------|----------------------------|-----|----------|------|-------------------|
| 1   | 110-5548    | 1    | Cable-Throttle             | 23  | 110-9796 | 1    | Decal-Block, Fuse |
| 2   | 74-5950     | 2    | Latch-Swell                |     |          |      |                   |
| 3   | 100-8071    | 1    | Lamp-Warning               |     |          |      |                   |
| 4   | 100-8070    | 1    | Lamp-Warning               |     |          |      |                   |
| 5   | 104-2541    | 1    | Switch ASM                 |     |          |      |                   |
| 5:1 | 218-461     | 1    | Nut-HH                     |     |          |      |                   |
| 5:2 | 3254-5      | 1    | Washer-Tooth               |     |          |      |                   |
| 6   | 106-9277    | 1    | Module-Control, Standard   |     |          |      |                   |
| 7   | 110-8253    | 1    | Decal-Panel, Control       |     |          |      |                   |
| 8   | 110-8254    | 1    | Decal-Start, Control Panel |     |          |      |                   |
| 9   | 63-8360     | 2    | Key-Ignition               |     |          |      |                   |
| 10  | 1-513374    | 1    | Meter-Hour                 |     |          |      |                   |
| 11  | 107-9097    | 1    | Controller-Glow            |     |          |      |                   |
| 12  | 32105-13    | 5    | Screw-HWH                  |     |          |      |                   |
| 13  | 3234-13     | 5    | Screw-HHF                  |     |          |      |                   |
| 14  | 1-804254    | 2    | Nut                        |     |          |      |                   |
| 15  | 93-9999     | 1    | Switch-PTO                 |     |          |      |                   |
| 16  | 104-7201    | 3    | Nut-HF                     |     |          |      |                   |
| 17  | 110-5547    | 1    | Control Lever ASM          |     |          |      |                   |
| 18  | 110-8257-03 | 1    | Cover-Panel, Control       |     |          |      |                   |
| 19  | 3258-19     | 3    | Screw                      |     |          |      |                   |
| 20  | 3296-2      | 5    | Nut-Lock                   |     |          |      |                   |
| 21  | 233-42      | 1    | Knob                       |     |          |      |                   |
| 22  | 110-8256-03 | 1    | Panel-Control              |     |          |      |                   |



## Transmission Assembly

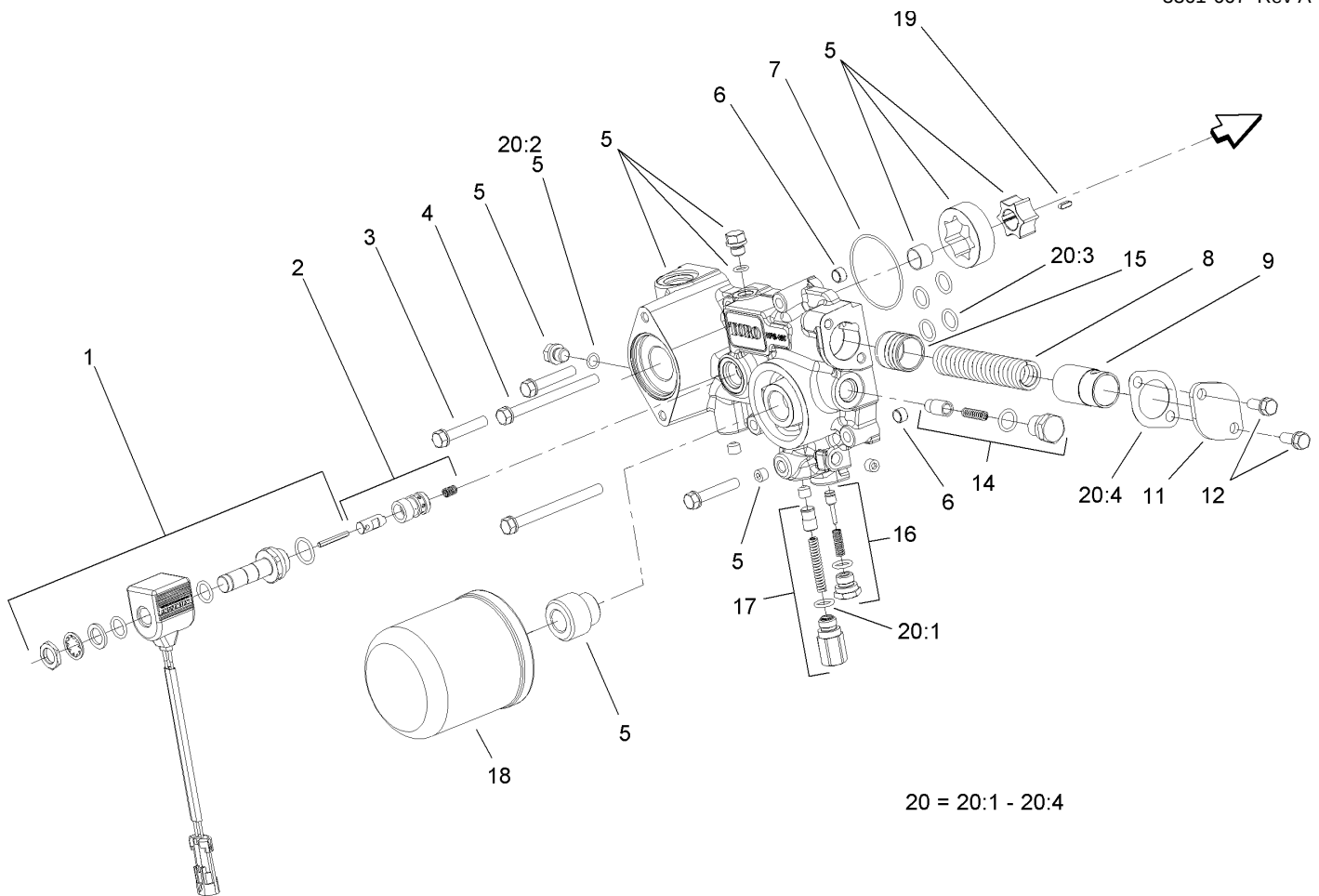
| Ref  | Part No.  | Qty. | Description            |
|------|-----------|------|------------------------|
| 1    | 32144-14  | 2    | Screw-HWHTF            |
| 2    | 340-2     | 1    | Fitting-HYD, Straight  |
| 2:1  | 237-22    | 1    | O-Ring                 |
| 2:2  | 237-42    | 1    | O-Ring                 |
| 3    | 104-8301  | 2    | Nut-Flange, NI         |
| 4    | 321-4     | 1    | Screw-HH               |
| 5    | 3256-24   | 2    | Washer-Flat            |
| 6    | 2412-72   | 1    | Clip-Closed, Insulated |
| 7    | 33114-025 | 2    | Screw-HH               |
| 8    | 3253-4    | 2    | Washer-Lock            |
| 9    | 112-9542  | 1    | Pump-Gear              |
| 10   | 108-5194  | 1    | Filter-Oil             |
| 11   | 107-0801  | 1    | Transmission ASM       |
| 12   | 108-9920  | 1    | Coupler-Spline, 9T     |
| 13   | 33115-035 | 1    | Screw-HH               |
| 14   | 340-155   | 4    | Fitting-HYD, Straight  |
| 14:1 | 237-79    | 1    | O-Ring                 |
| 14:2 | 237-151   | 1    | O-Ring                 |
| 15   | 340-105   | 1    | Fitting-HYD, 90 DEG    |
| 15:1 | 237-80    | 1    | O-Ring                 |
| 15:2 | 237-30    | 1    | O-Ring                 |
| 17   | 112-1683  | 2    | Hose ASM               |
| 18   | 48-9590   | 7    | Washer-Lock            |
| 19   | 104-7201  | 1    | Nut-HF                 |

| Ref  | Part No.  | Qty. | Description          |
|------|-----------|------|----------------------|
| 20   | 33115-050 | 6    | Screw-HH             |
| 21   | 87-1910   | 4    | Pin-Dowel            |
| 22   | 323-13    | 2    | Screw-HH             |
| 23   | 108-5193  | 1    | Housing-Flywheel     |
| 24   | 3234-17   | 2    | Screw-HHF            |
| 25   | 80-8560   | 2    | Washer-Hardened      |
| 26   | 110-5518  | 2    | Hose ASM             |
| 27   | 108-9919  | 1    | O-Ring               |
| 28   | 110-5534  | 1    | Support-Tube         |
| 29   | 104-8300  | 2    | Nut-Flange, NI       |
| 30   | 107-2289  | 2    | Mount-Motor          |
| 31   | 110-5536  | 1    | Fitting-HYD, Adapter |
| 31:1 | 237-78    | 1    | O-Ring               |
| 32   | 110-5537  | 1    | Tube ASM             |
| 33   | 94-5961   | 1    | Hose ASM             |
| 34   | 340-14    | 2    | Fitting-HYD, 45 DEG  |
| 34:1 | 237-65    | 1    | O-Ring               |
| 34:2 | 237-80    | 1    | O-Ring               |
| 35   | 340-7     | 2    | Adapter              |
| 35:1 | 237-65    | 1    | O-Ring               |
| 35:2 | 237-80    | 1    | O-Ring               |
| 36   | 3290-378  | 1    | Tie-Cable            |



# Hydraulic Gear Pump Assembly No. 112-9542

| Ref | Part No. | Qty. | Description |
|-----|----------|------|-------------|
| 1   | 112-0198 | 1    | Valve       |
| 2   | 112-0199 | 1    | Seal Kit    |

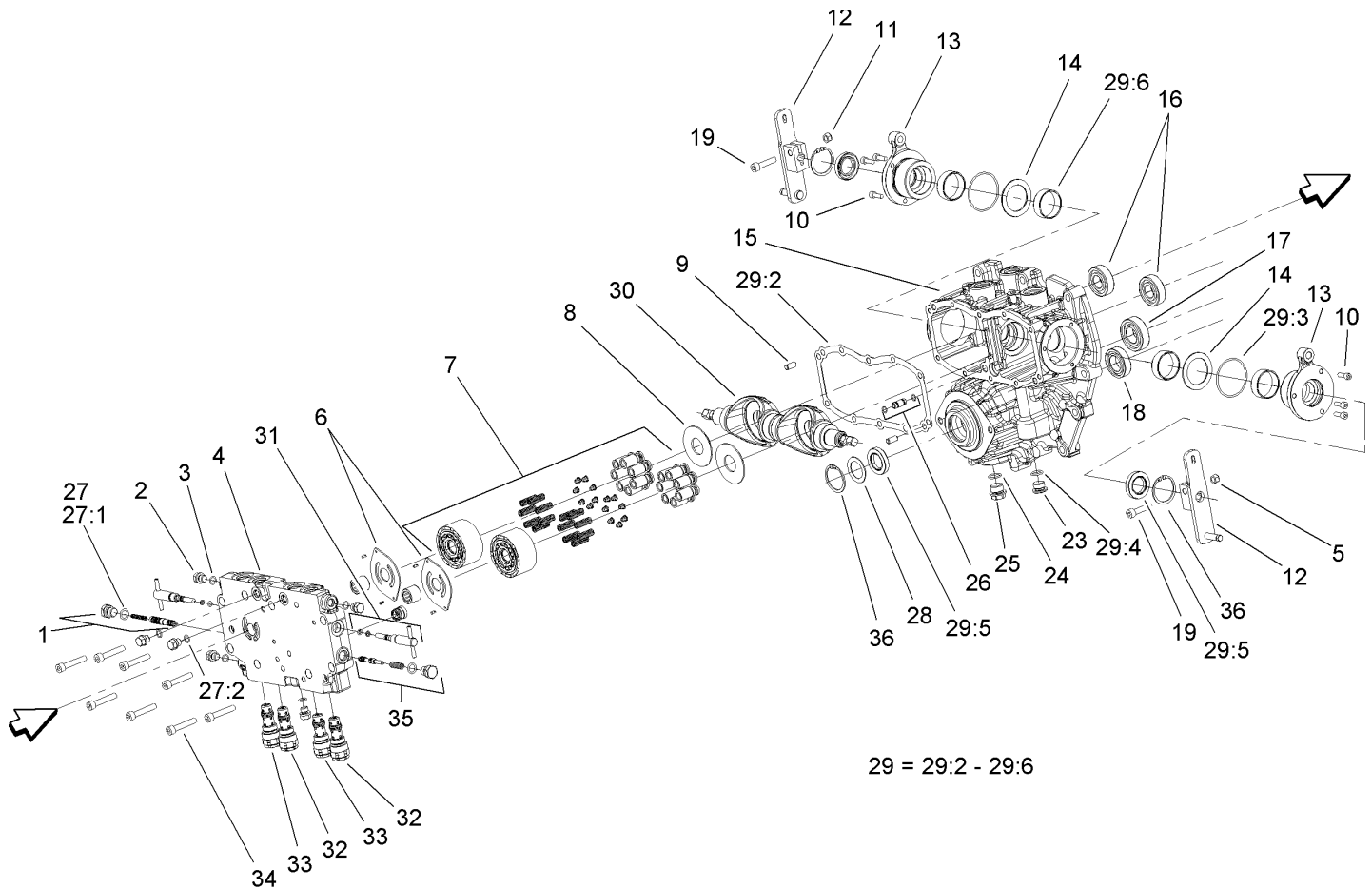


# Charge Pump Housing Assembly

## Transmission Assembly No. 107-0801

| Ref  | Part No. | Qty. | Description             |
|------|----------|------|-------------------------|
| 1    | 107-0851 | 1    | Solenoid ASM            |
| 2    | 107-0850 | 1    | Solenoid Valve ASM      |
| 3    | 107-0863 | 3    | Bolt                    |
| 4    | 107-0864 | 2    | Bolt                    |
| 5    | 107-0840 | 1    | Pump Body ASM           |
| 6    | 107-0848 | 2    | Pin                     |
| 7    | 107-0856 | 1    | O-Ring                  |
| 8    | 107-0845 | 1    | Spring                  |
| 9    | 107-0844 | 1    | Collar                  |
| 11   | 107-0846 | 1    | Cover                   |
| 12   | 93-0457  | 2    | Bolt And Washer ASM     |
| 14   | 107-0843 | 1    | Filter Bypass Valve ASM |
| 15   | 107-0818 | 1    | Piston                  |
| 16   | 107-0842 | 1    | Charge Relief Valve ASM |
| 17   | 107-0841 | 1    | Pressure Valve ASM      |
| 18   | 108-5194 | 1    | Filter-Oil              |
| 19   | 107-0865 | 1    | Key                     |
| 20   | 107-0855 | 1    | Charge Pump Seal Kit    |
| 20:1 | 93-0418  | 2    | O-Ring                  |
| 20:2 | 107-0817 | 2    | O Ring-Plug             |
| 20:3 | 104-3298 | 6    | Packing                 |
| 20:4 | 107-0847 | 1    | Gasket                  |

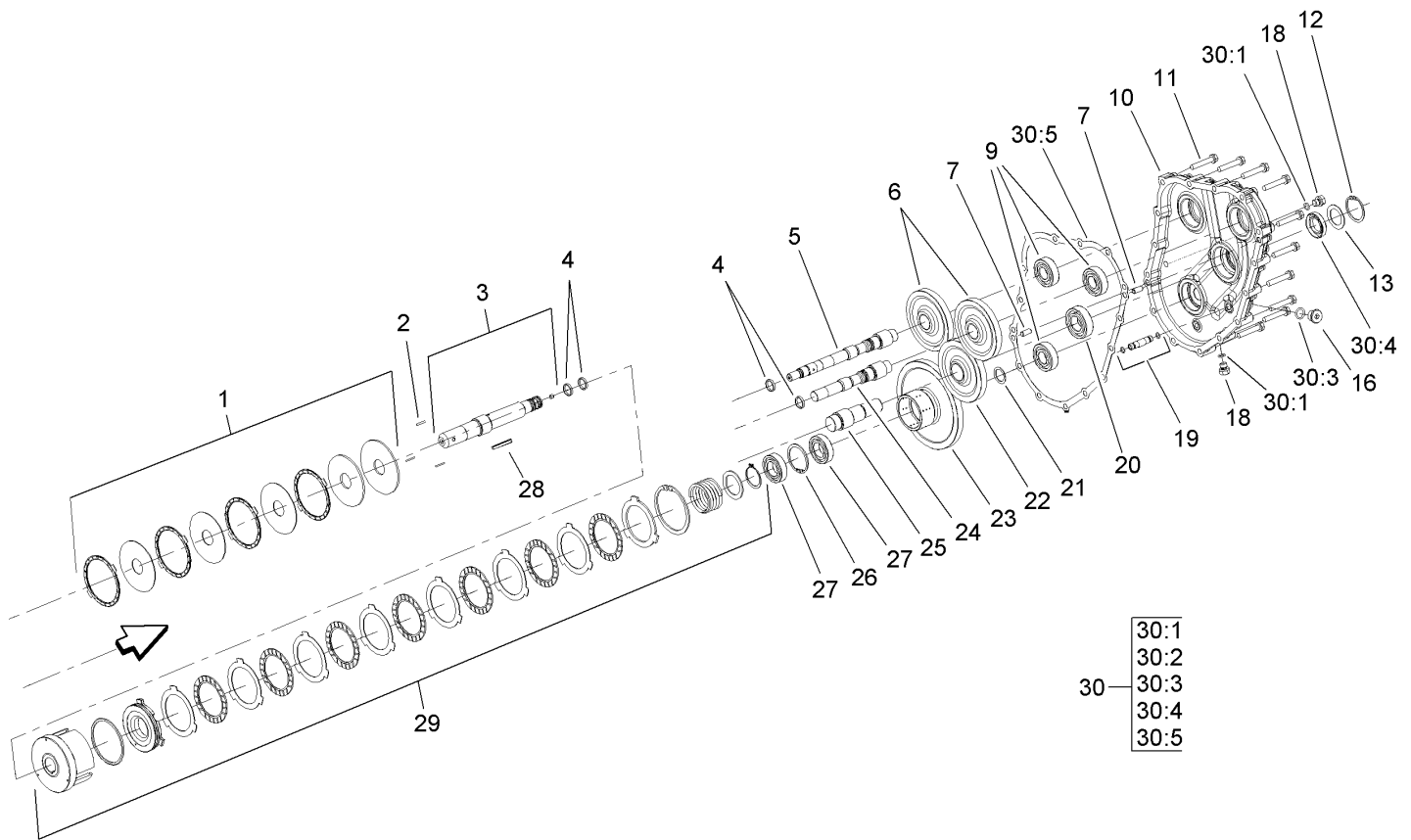
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## Center Section Assembly Transmission Assembly No. 107-0801

| Ref | Part No. | Qty. | Description          |
|-----|----------|------|----------------------|
| 1   | 107-0807 | 1    | Valve-Flushing, RH   |
| 2   | 107-0857 | 6    | Plug                 |
| 3   | 107-0817 | 6    | O Ring-Plug          |
| 4   | 107-0802 | 1    | Case-Center          |
| 5   | 107-0858 | 1    | U-Nut                |
| 6   | 107-0805 | 2    | Plate-Valve          |
| 7   | 107-0824 | 2    | Cylinder Block ASM   |
| 8   | 107-0830 | 2    | Plate-Thrust         |
| 9   | 92-0765  | 4    | Pin-Parallel         |
| 10  | 107-0859 | 6    | Bolt                 |
| 11  | 107-0858 | 2    | U-Nut                |
| 12  | 107-0831 | 2    | Arm-Control          |
| 13  | 107-0832 | 2    | Side Cover ASM       |
| 14  | 107-0829 | 2    | Washer               |
| 15  | 107-0809 | 1    | Housing-Pump         |
| 16  | 107-0826 | 2    | Bearing              |
| 17  | 107-0821 | 1    | Bearing              |
| 18  | 107-0838 | 1    | Bearing              |
| 19  | 107-0860 | 2    | Bolt                 |
| 23  | 107-0861 | 1    | Plug-NPTF            |
| 24  | 107-0862 | 1    | O-Ring               |
| 25  | 107-0867 | 1    | Plug                 |
| 26  | 107-0812 | 1    | Pipe                 |
| 27  | 107-0852 | 1    | Center Case Seal Kit |

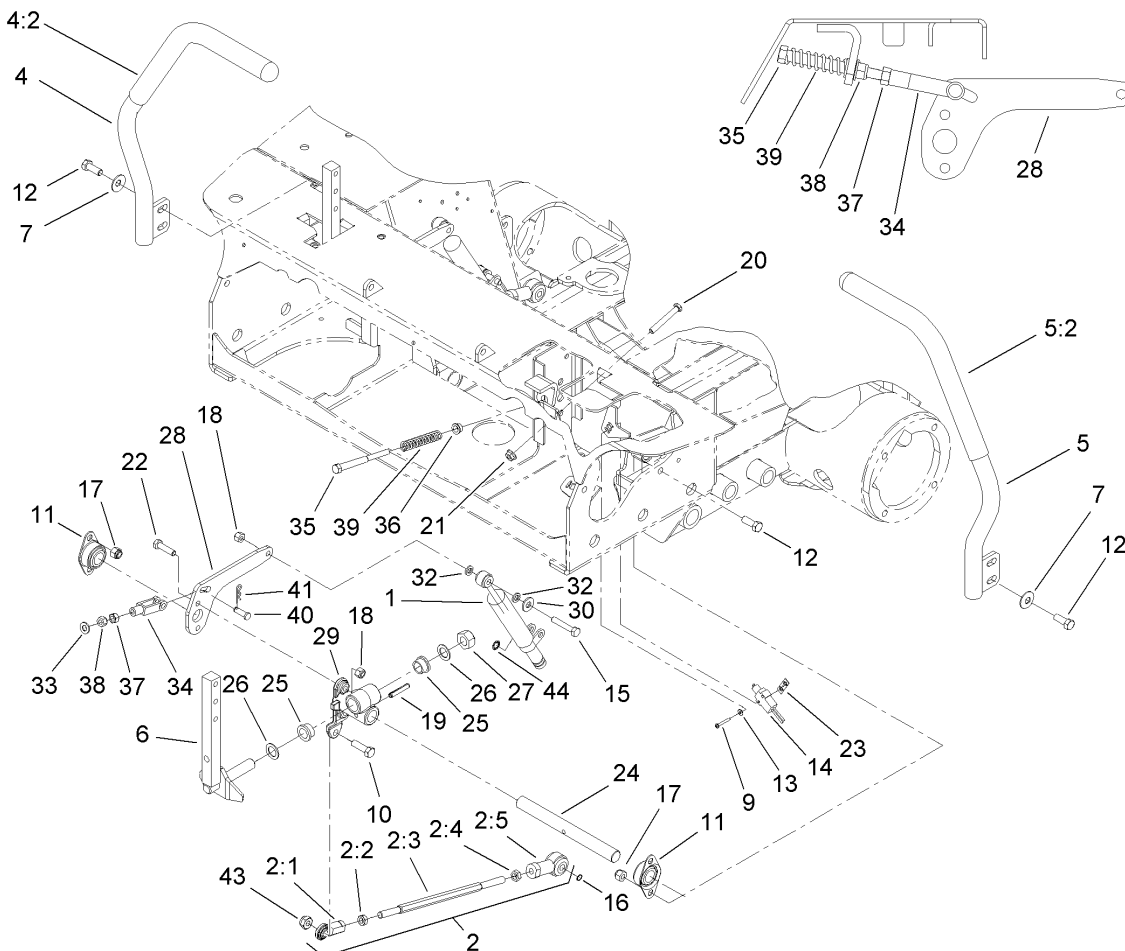
| Ref  | Part No. | Qty. | Description           |
|------|----------|------|-----------------------|
| 27:1 | 93-0418  | 2    | O-Ring                |
| 27:2 | 107-0817 | 6    | O Ring-Plug           |
| 28   | 107-0813 | 1    | Spacer                |
| 29   | 107-0853 | 1    | Pump Housing Seal Kit |
| 29:2 | 107-0810 | 1    | Gasket-Case, Center   |
| 29:3 | 107-0817 | 2    | O Ring-Plug           |
| 29:4 | 104-3298 | 1    | Packing               |
| 29:5 | 107-0814 | 3    | Seal                  |
| 29:6 | 107-0825 | 4    | Ring-Seal             |
| 30   | 107-0828 | 2    | Plate-Swash           |
| 31   | 107-0808 | 2    | Valve-Bypass          |
| 32   | 107-0804 | 2    | Valve-Rear            |
| 33   | 107-0803 | 2    | Valve-Front           |
| 34   | 107-0863 | 8    | Bolt                  |
| 35   | 107-0806 | 1    | Valve-Flushing, LH    |
| 36   | 92-0757  | 2    | Ring-Snap             |



## Gear Case and Clutch Assembly Transmission Assembly No. 107-0801

| Ref | Part No. | Qty. | Description       |
|-----|----------|------|-------------------|
| 1   | 107-0839 | 1    | PTO Brake ASM     |
| 2   | 107-0837 | 3    | Rod-Push          |
| 3   | 107-0833 | 1    | PTO Shaft ASM     |
| 4   | 107-0825 | 2    | Ring-Seal         |
| 5   | 107-0827 | 1    | Shaft-Pump        |
| 6   | 107-0823 | 2    | Gear-Pump         |
| 7   | 92-0765  | 4    | Pin-Parallel      |
| 9   | 107-0826 | 4    | Bearing           |
| 10  | 107-0815 | 1    | Housing-Gear Case |
| 11  | 107-0863 | 13   | Bolt              |
| 12  | 92-0757  | 1    | Ring-Snap         |
| 13  | 107-0813 | 1    | Spacer            |
| 16  | 107-0861 | 1    | Plug-NPTF         |
| 18  | 107-0857 | 6    | Plug              |
| 19  | 107-0811 | 1    | Pipe              |
| 20  | 107-0821 | 2    | Bearing           |
| 21  | 107-0836 | 1    | Spacer            |
| 22  | 107-0820 | 1    | Gear-Input        |
| 23  | 107-0834 | 1    | Gear-PTO          |
| 24  | 107-0822 | 1    | Shaft-Pump        |
| 25  | 107-0819 | 1    | Shaft-Input       |
| 26  | 92-0758  | 1    | Ring-Snap         |
| 27  | 107-0838 | 3    | Bearing           |
| 28  | 107-0866 | 1    | Key               |

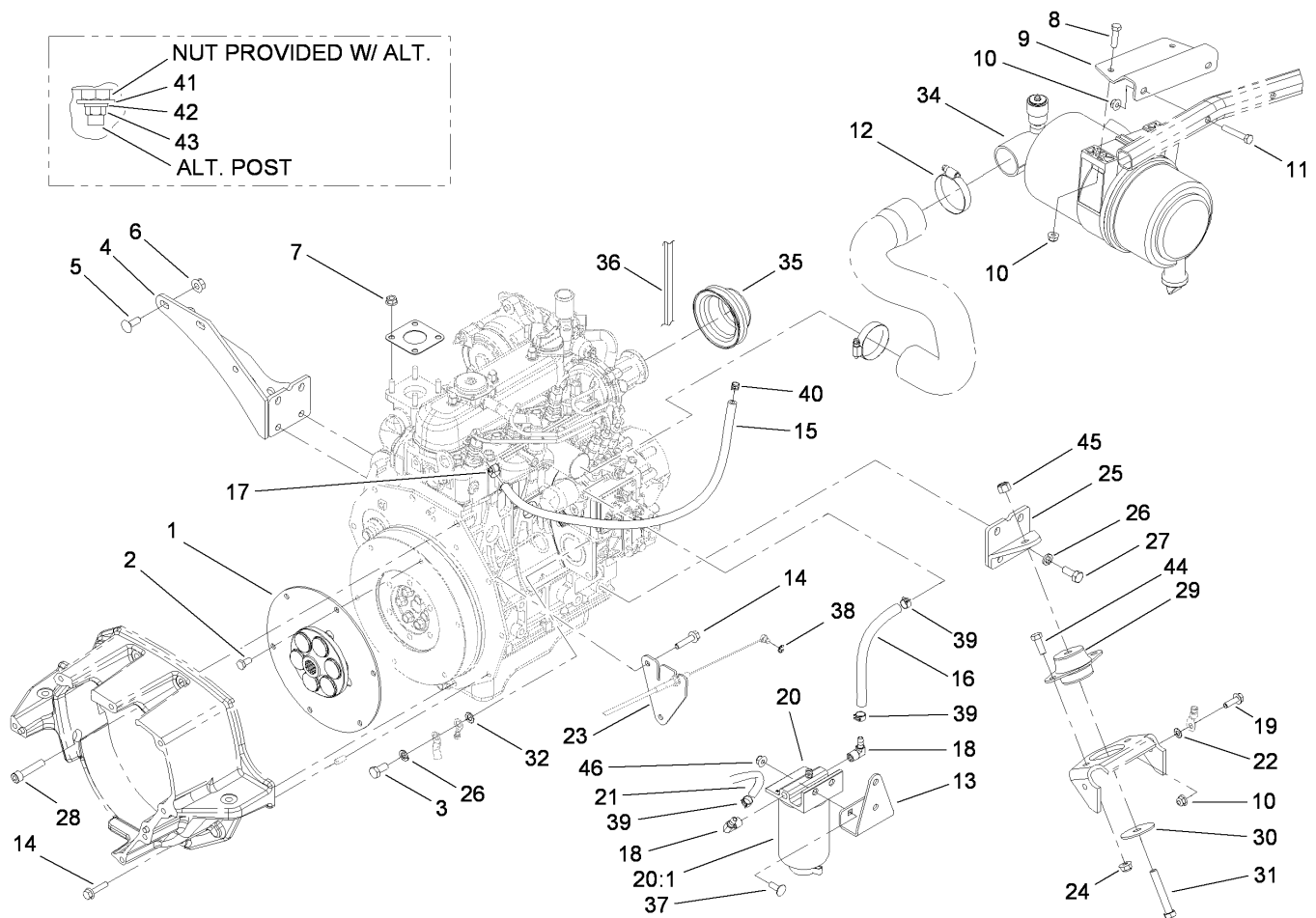
| Ref  | Part No. | Qty. | Description           |
|------|----------|------|-----------------------|
| 29   | 107-0835 | 1    | Clutch Cylinder ASM   |
| 30   | 107-0854 | 1    | Gear Housing Seal Kit |
| 30:1 | 107-0817 | 2    | O Ring-Plug           |
| 30:2 |          | 2    | O-Ring                |
| 30:3 | 104-3298 | 1    | Packing               |
| 30:4 | 107-0814 | 1    | Seal                  |
| 30:5 | 107-0816 | 1    | Gasket-Housing, Gear  |



## Traction Control Assembly

| Ref | Part No.    | Qty. | Description           |
|-----|-------------|------|-----------------------|
| 1   | 105-7280    | 2    | Damper                |
| 2   | 112-5099    | 2    | Link ASM              |
| 2:1 | 103-1167    | 1    | Joint-Ball End, LH    |
| 2:2 | 3220-16     | 1    | Nut-Jam, LH           |
| 2:3 | 105-7239    | 1    | Rod-Threaded          |
| 2:4 | 3219-3      | 1    | Nut-Hex               |
| 2:5 | 105-7199    | 1    | Rod End-Isolated      |
| 4   | 108-5208    | 1    | RH Lever And Grip ASM |
| 4:2 | 108-5213    | 1    | Grip-Foam             |
| 5   | 108-5209    | 1    | LH Lever And Grip ASM |
| 5:2 | 108-5213    | 1    | Grip-Foam             |
| 6   | 108-9833-03 | 2    | Lever ASM             |
| 7   | 3290-461    | 4    | Washer-Spring         |
| 9   | 3250-35     | 4    | Screw-PPH             |
| 10  | 323-7       | 2    | Screw-HH              |
| 11  | 1-633102    | 4    | Bearing-Flange, Side  |
| 12  | 323-6       | 12   | Screw-HH              |
| 13  | 3256-53     | 4    | Washer-Flat           |
| 14  | 99-3410     | 2    | Switch                |
| 15  | 322-9       | 2    | Screw-HH              |
| 16  | 32120-46    | 2    | Ring-Retaining        |
| 17  | 3296-39     | 8    | Nut-Lock, NI          |
| 18  | 3296-29     | 6    | Nut-Lock, NI          |
| 19  | 32121-15    | 2    | Pin-Roll              |

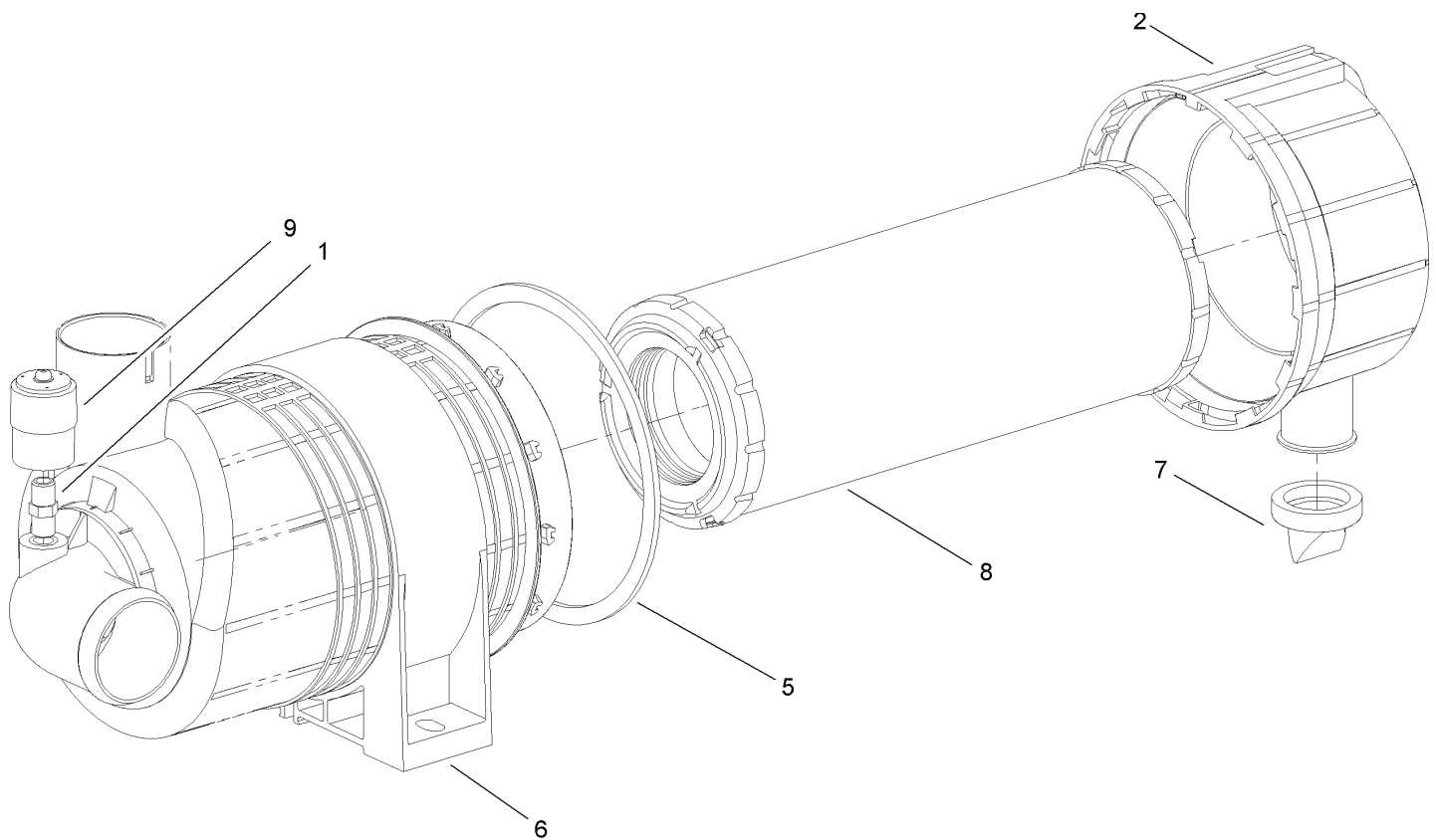
| Ref | Part No.    | Qty. | Description            |
|-----|-------------|------|------------------------|
| 20  | 9114524     | 2    | Bolt-TAP, HH           |
| 21  | 32128-26    | 2    | Nut-Flange             |
| 22  | 322-6       | 4    | Screw-HH               |
| 23  | 108-9824    | 2    | Nut-Switch             |
| 24  | 108-9830    | 2    | Shaft-Pivot            |
| 25  | 105-3455    | 4    | Bushing                |
| 26  | 105-3481    | 4    | Washer-Thrust          |
| 27  | 32152-6     | 2    | Nut-Lock, Cone         |
| 28  | 108-9829-03 | 2    | Lever-Damper           |
| 29  | 108-9831    | 2    | Hub-Control            |
| 30  | 3256-3      | 2    | Washer-Flat            |
| 32  | 3253-4      | 4    | Washer-Lock            |
| 33  | 3256-23     | 2    | Washer-Flat            |
| 34  | 1-303105    | 2    | Yoke-Adjustable        |
| 35  | 1-603737    | 2    | Bolt-Return, Neutral   |
| 36  | 1-603735    | 2    | Bushing-Flanged        |
| 37  | 3219-2      | 2    | Nut-Hex                |
| 38  | 3296-4      | 2    | Nut-Lock               |
| 39  | 1-603807    | 2    | Spring-Return, Neutral |
| 40  | 283-1       | 2    | Pin-Clevis             |
| 41  | 3290-307    | 2    | Pin-Hair               |
| 43  | 3296-44     | 2    | Nut-Lock, NI           |
| 44  | 32151-72    | 2    | Ring-Retaining         |



## Engine Component Assembly

| Ref  | Part No.    | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 110-9729    | 1    | Flywheel Coupling ASM |
| 2    | 33114-016   | 6    | Screw-HH              |
| 3    | 63-7790     | 1    | Screw-Cap             |
| 4    | 108-9926-03 | 1    | Muffler Bracket ASM   |
| 5    | 3231-22     | 2    | Screw-CARR            |
| 6    | 32128-29    | 2    | Locknut-Flange        |
| 7    | 33004-00    | 4    | Nut-HF                |
| 8    | 322-6       | 2    | Screw-HH              |
| 9    | 108-9843-03 | 1    | Support-Cleaner, Air  |
| 10   | 104-8300    | 5    | Nut-Flange, NI        |
| 11   | 322-10      | 2    | Screw-HH              |
| 12   | 2412-130    | 1    | Clamp-Hose            |
| 13   | 114-4058-03 | 1    | Mount-Separator       |
| 14   | 33104-035   | 8    | Screw-HHF             |
| 15   | 110-8255    | 1    | Hose-Fuel             |
| 16   | 110-4104    | 1    | Hose-Fuel             |
| 17   | 2412-108    | 1    | Clamp-Worm            |
| 18   | 353-781     | 2    | Fitting-Elbow         |
| 19   | 3234-17     | 1    | Screw-HHF             |
| 20   | 110-9044    | 1    | Filter-Separator      |
| 20:1 | 110-9049    | 1    | Filter-Spin On        |
| 21   | 114-4028    | 1    | Hose-Fuel             |
| 22   | 3255-8      | 1    | Washer-Lock           |
| 23   | 114-4060    | 1    | Bracket-Throttle      |

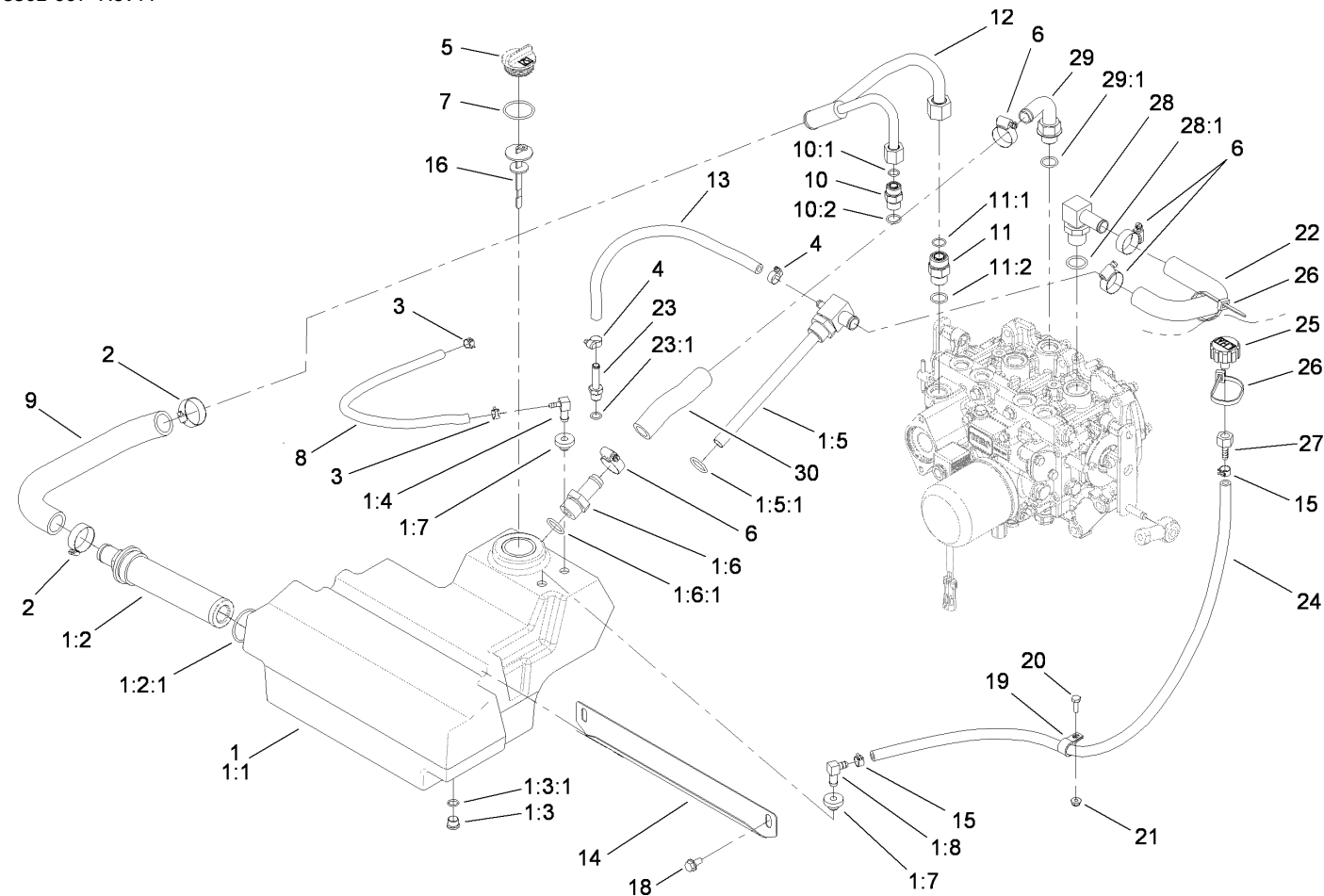
| Ref | Part No.    | Qty. | Description       |
|-----|-------------|------|-------------------|
| 24  | 104-8301    | 4    | Nut-Flange, NI    |
| 25  | 105-7235-03 | 1    | LH Rear Mount ASM |
| 26  | 48-9590     | 9    | Washer-Lock       |
| 27  | 43-0090     | 8    | Screw-HH          |
| 28  | 3274-106    | 2    | Screw-HSH         |
| 29  | 53-9681     | 2    | Mount-Engine      |
| 30  | 87-5100     | 2    | Washer-Snubbing   |
| 31  | 324-11      | 2    | Screw-HH          |
| 32  | 3255-9      | 1    | Washer-Lock       |
| 34  | 104-3428    | 1    | Air Cleaner ASM   |
| 35  | 98-9584     | 1    | Pulley-Fan        |
| 36  | 98-9676     | 1    | V-Belt            |
| 37  | 3230-10     | 2    | Screw-CARR        |
| 38  | 701197      | 1    | E-Ring            |
| 39  | 92-2379     | 3    | Clamp-Hose        |
| 40  | 2412-80     | 1    | Clamp-Line, Fuel  |
| 41  | 3256-2      | 1    | Washer-Flat       |
| 42  | 43-5930     | 1    | Washer-Spring     |
| 43  | 33013-00    | 1    | Nut-Hex           |
| 44  | 323-6       | 4    | Screw-HH          |
| 45  | 3296-48     | 2    | Nut-Lock, NI      |
| 46  | 32128-44    | 2    | Nut               |



# Air Cleaner Assembly No. 104-3428

| Ref | Part No. | Qty. | Description          |
|-----|----------|------|----------------------|
| 1   | 105-4292 | 1    | Nipple-Pipe          |
| 2   | 104-0497 | 1    | Cover ASM            |
| 5   | 104-4897 | 1    | Gasket               |
| 6   | 98-4525  | 1    | Bracket-Cleaner, Air |
| 7   | 104-0498 | 1    | Valve-Vacuator       |
| 8   | 108-3810 | 1    | Filter-Air           |
| 9   | 93-9164  | 1    | Indicator-Mini       |

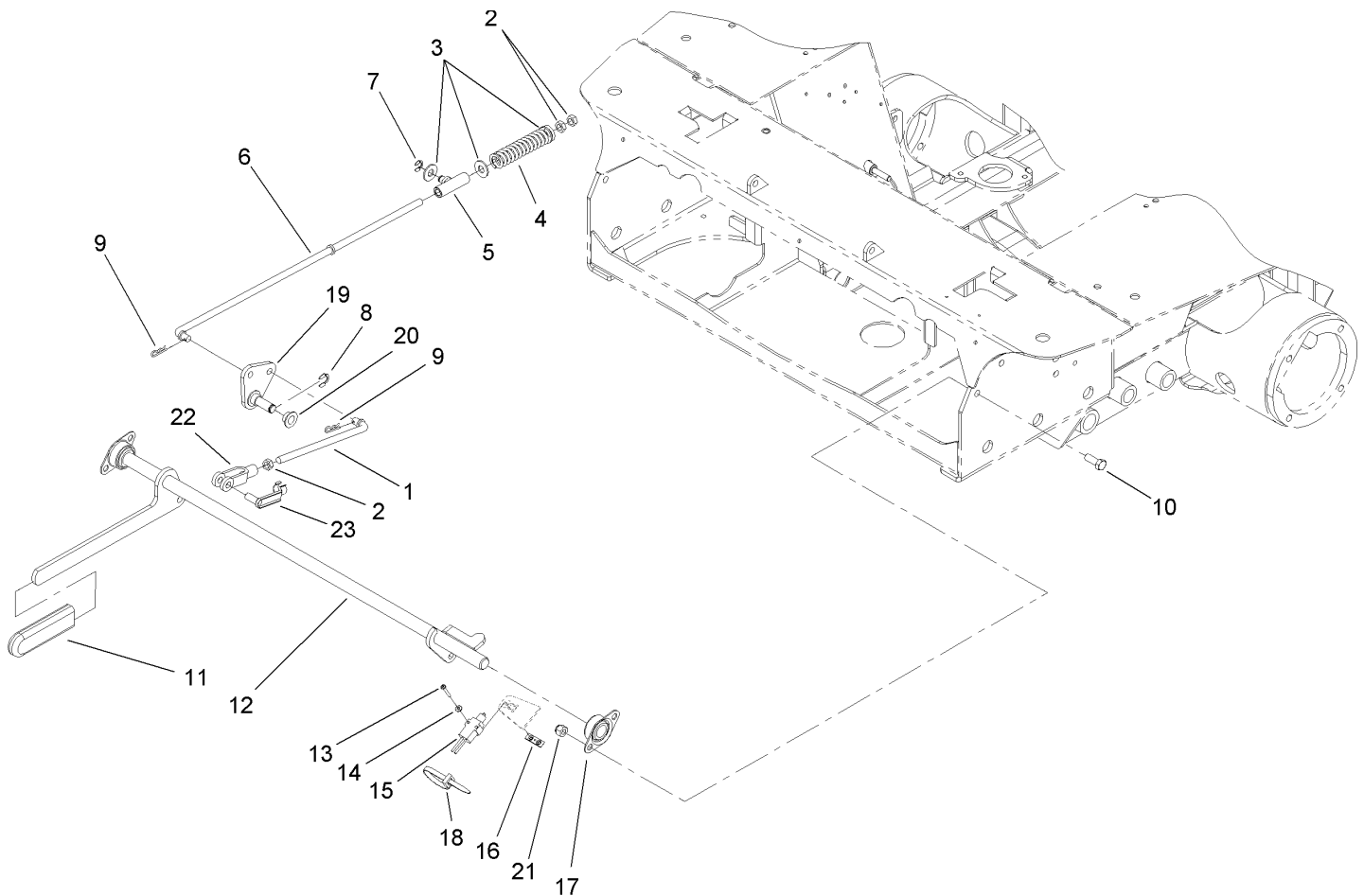
15



# Hydraulic Assembly

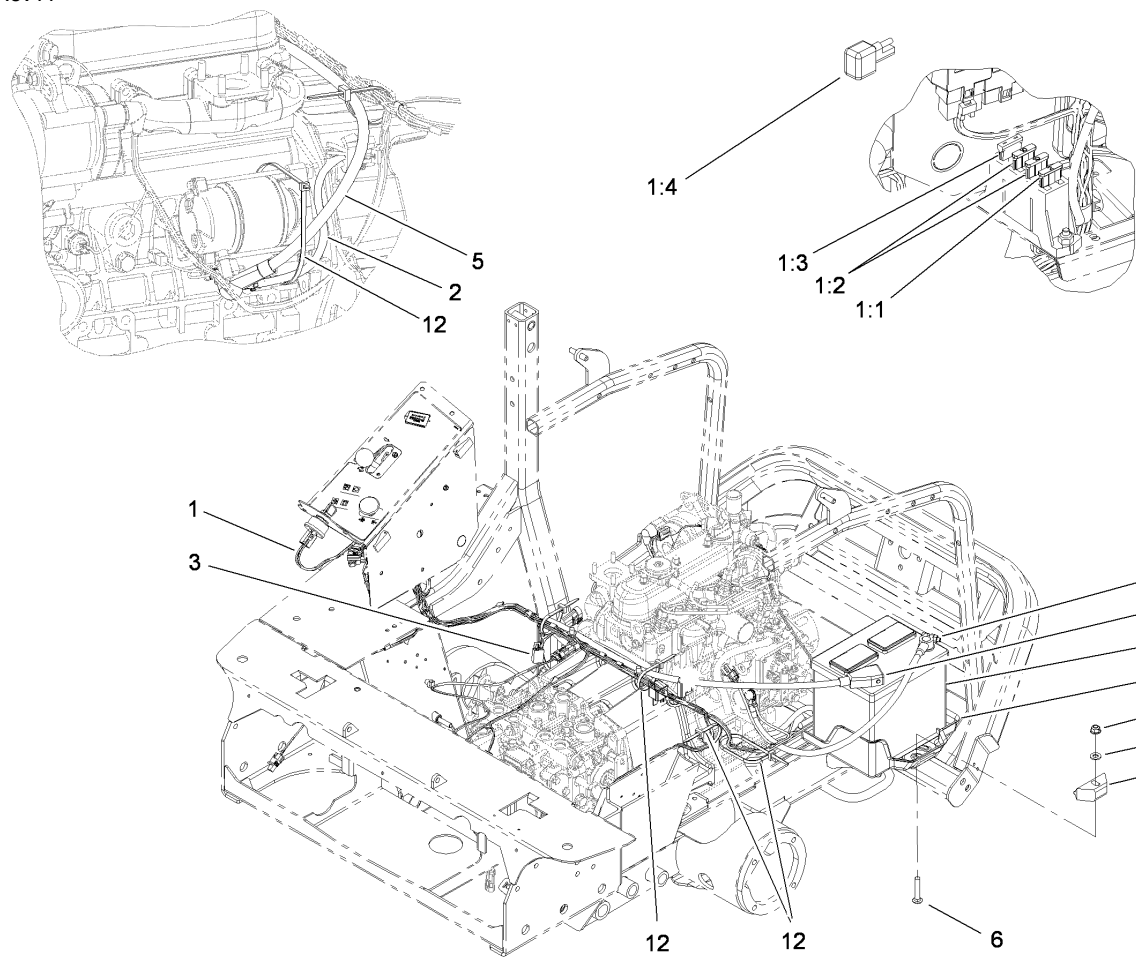
| Ref   | Part No. | Qty. | Description             |
|-------|----------|------|-------------------------|
| 1     | 110-8237 | 1    | Hydraulic Reservoir ASM |
| 1:1   | 108-5200 | 1    | Reservoir-Hydraulic     |
| 1:2   | 104-7546 | 1    | Strainer-Tank           |
| 1:2:1 | 340-136  | 1    | O-Ring                  |
| 1:3   | 353-989  | 1    | Plug-Hex, Hollow        |
| 1:3:1 | 237-42   | 1    | O-Ring                  |
| 1:4   | 104-5228 | 1    | Fitting-Elbow           |
| 1:5   | 108-9894 | 1    | Fitting-Elbow, Special  |
| 1:5:1 | 237-81   | 1    | O-Ring                  |
| 1:6   | 354-73   | 1    | Fitting-Straight        |
| 1:6:1 | 237-81   | 1    | O-Ring                  |
| 1:7   | 46-6560  | 2    | Bushing                 |
| 1:8   | 46-6550  | 1    | Fitting-Elbow, 90 DEG   |
| 2     | 2412-34  | 2    | Clamp-Hose              |
| 3     | 2412-98  | 2    | Clamp                   |
| 4     | 2412-108 | 2    | Clamp-Worm              |
| 5     | 93-7498  | 1    | Plug-Plastic            |
| 6     | 2412-129 | 4    | Clamp-Hose              |
| 7     | 94-8166  | 1    | O-Ring                  |
| 8     | 109-0299 | 1    | Hose-Fuel               |
| 9     | 110-5526 | 1    | Hose-Suction            |
| 10    | 340-4    | 1    | Fitting-HYD, Straight   |
| 10:1  | 237-30   | 1    | O-Ring                  |
| 10:2  | 237-79   | 1    | O-Ring                  |

| Ref  | Part No.    | Qty. | Description             |
|------|-------------|------|-------------------------|
| 11   | 340-7       | 1    | Adapter                 |
| 11:1 | 237-65      | 1    | O-Ring                  |
| 11:2 | 237-80      | 1    | O-Ring                  |
| 12   | 110-5532    | 1    | Tube ASM                |
| 13   | 94-5625     | 1    | Hose-Overflow, Radiator |
| 14   | 110-5529-03 | 1    | Support-Reservoir       |
| 15   | 92-2379     | 2    | Clamp-Hose              |
| 16   | 112-6365    | 1    | Dipstick ASM            |
| 18   | 32144-14    | 2    | Screw-HWHTF             |
| 19   | 2412-87     | 1    | Clamp-Cable             |
| 20   | 321-4       | 1    | Screw-HH                |
| 21   | 104-7201    | 1    | Nut-HF                  |
| 22   | 110-5524    | 1    | Hose-Return             |
| 23   | 353-979     | 1    | Fitting-Straight        |
| 23:1 | 237-42      | 1    | O-Ring                  |
| 24   | 110-9662    | 1    | Hose-Fuel               |
| 25   | 68-6150     | 1    | Breather                |
| 26   | 3290-379    | 2    | Tie-Cable               |
| 27   | 354-95      | 1    | Fitting-Straight        |
| 28   | 353-987     | 1    | Fitting-HYD, 90         |
| 28:1 | 237-81      | 1    | O-Ring                  |
| 29   | 110-5522    | 1    | Fitting-Elbow, 90       |
| 29:1 | 237-80      | 1    | O-Ring                  |
| 30   | 112-1680    | 1    | Hose-HYD                |



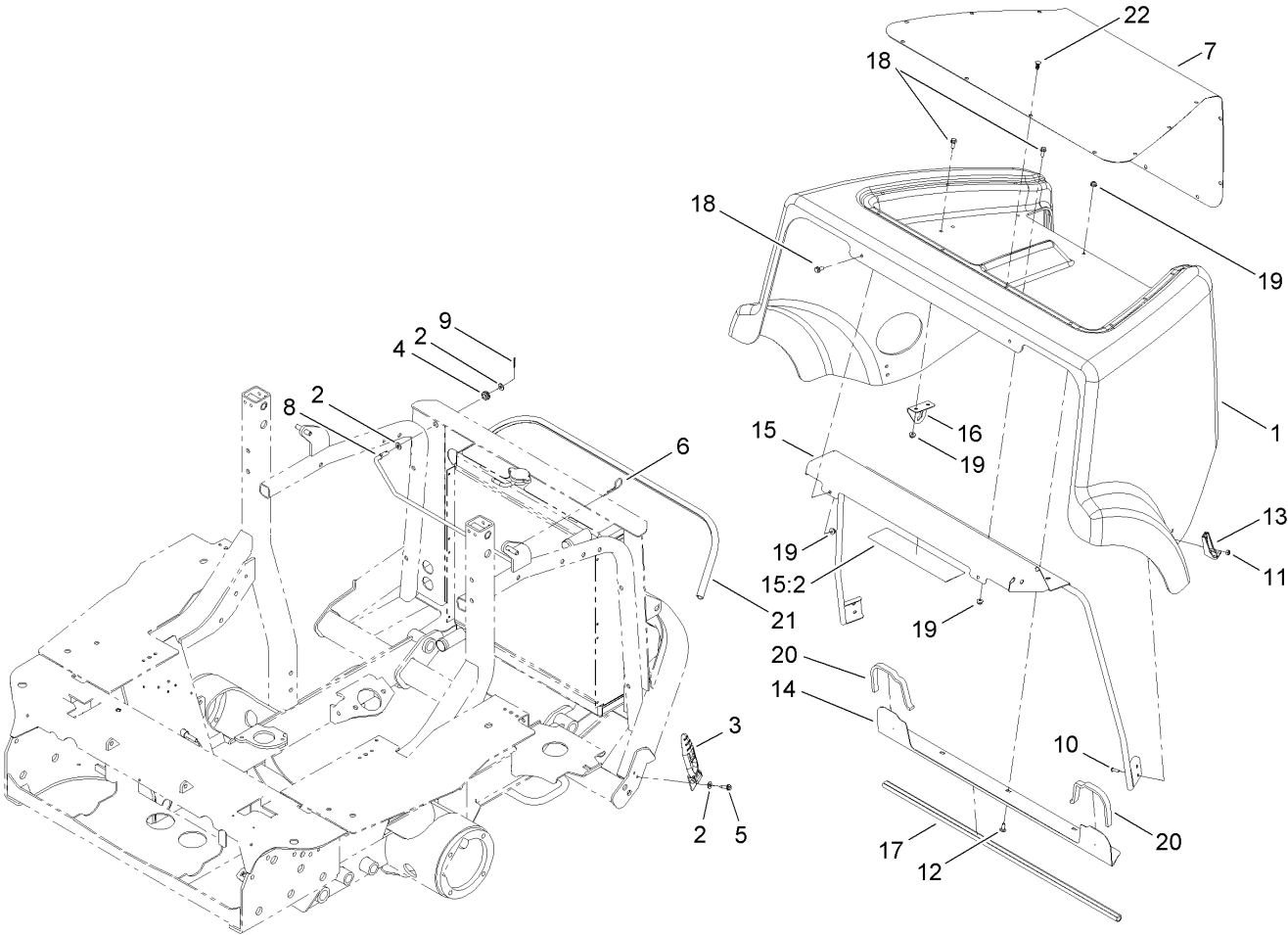
## Parking Brake Assembly

| Ref | Part No.    | Qty. | Description          |  |  |  |  |
|-----|-------------|------|----------------------|--|--|--|--|
| 1   | 110-5498    | 2    | Rod-Brake, Front     |  |  |  |  |
| 2   | 3219-3      | 6    | Nut-Hex              |  |  |  |  |
| 3   | 3256-4      | 6    | Washer-Flat          |  |  |  |  |
| 4   | 109-2230    | 2    | Spring-Compression   |  |  |  |  |
| 5   | 112-1676    | 2    | Swivel ASM           |  |  |  |  |
| 6   | 110-5494    | 2    | Rod-Brake, Rear      |  |  |  |  |
| 7   | 32151-47    | 2    | Ring-Retaining       |  |  |  |  |
| 8   | 32151-68    | 2    | Ring-Retaining       |  |  |  |  |
| 9   | 3290-307    | 4    | Pin-Hair             |  |  |  |  |
| 10  | 323-6       | 4    | Screw-HH             |  |  |  |  |
| 11  | 1-633268    | 1    | Grip-Lever, Brake    |  |  |  |  |
| 12  | 108-5214-03 | 1    | Brake Handle ASM     |  |  |  |  |
| 13  | 3250-35     | 2    | Screw-PPH            |  |  |  |  |
| 14  | 3256-53     | 2    | Washer-Flat          |  |  |  |  |
| 15  | 95-8900     | 1    | Switch               |  |  |  |  |
| 16  | 108-9824    | 1    | Nut-Switch           |  |  |  |  |
| 17  | 1-633102    | 2    | Bearing-Flange, Side |  |  |  |  |
| 18  | 3290-378    | 1    | Tie-Cable            |  |  |  |  |
| 19  | 110-9754    | 2    | Brake Pivot ASM      |  |  |  |  |
| 20  | 1-513140    | 4    | Bearing-Control      |  |  |  |  |
| 21  | 3290-357    | 4    | Nut-HHF, Whiz        |  |  |  |  |
| 22  | 1-633131    | 2    | Yoke-Linkage, Brake  |  |  |  |  |
| 23  | 103-2399    | 2    | Pin-Spring, Clevis   |  |  |  |  |



Electrical Assembly

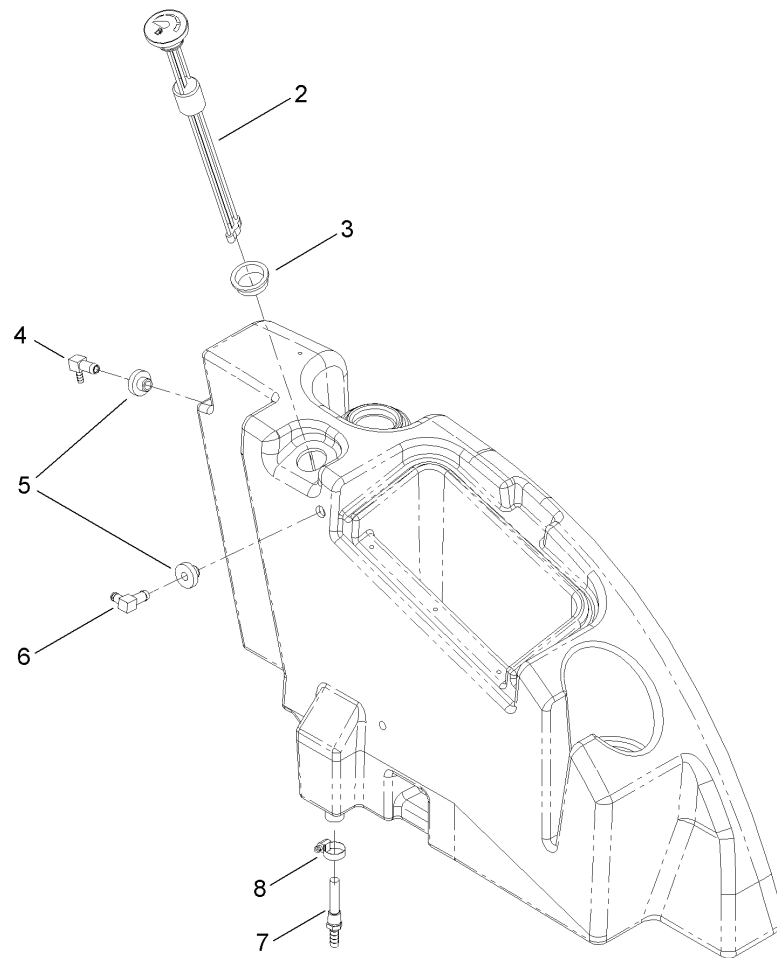
| Ref | Part No. | Qty. | Description                |  |  |  |  |
|-----|----------|------|----------------------------|--|--|--|--|
| 1   | 114-3382 | 1    | Harness-Wire, Main         |  |  |  |  |
| 1:1 | 94-6710  | 1    | Fuse-Blade, 2 Amp          |  |  |  |  |
| 1:2 | 218-578  | 2    | Fuse-10 Amp                |  |  |  |  |
| 1:3 | 109355   | 1    | Fuse-15 Amp                |  |  |  |  |
| 1:4 | 100-4918 | 1    | Diode                      |  |  |  |  |
| 2   | 99-3441  | 1    | Harness-Wire, Fusible Link |  |  |  |  |
| 3   | 108-8657 | 1    | Harness-Wire, Seat         |  |  |  |  |
| 4   | 104-8301 | 1    | Nut-Flange, NI             |  |  |  |  |
| 5   | 104-0086 | 1    | Cable-Battery, Positive    |  |  |  |  |
| 6   | 3231-6   | 1    | Screw-CARR                 |  |  |  |  |
| 7   | 105-0040 | 1    | Cable-Battery, Negative    |  |  |  |  |
| 8   | 66-2490  | 1    | Retainer-Battery           |  |  |  |  |
| 9   | 3256-24  | 1    | Washer-Flat                |  |  |  |  |
| 10  | 108-9928 | 1    | Tray-Battery               |  |  |  |  |
| 11  | 106-5187 | 1    | Battery                    |  |  |  |  |
| 12  | 3290-378 | 5    | Tie-Cable                  |  |  |  |  |



Hood Assembly

| Ref  | Part No.    | Qty. | Description       |  |  |  |  |
|------|-------------|------|-------------------|--|--|--|--|
| 1    | 112-6311    | 1    | Hood ASM          |  |  |  |  |
| 2    | 3256-2      | 4    | Washer-Flat       |  |  |  |  |
| 3    | 103-2898    | 2    | Latch-Rubber      |  |  |  |  |
| 4    | 237-136     | 1    | Grommet           |  |  |  |  |
| 5    | 32104-95    | 2    | Screw-HWH         |  |  |  |  |
| 6    | 3290-255    | 1    | Pin-Cotter, Hair  |  |  |  |  |
| 7    | 115-1446-03 | 1    | Screen-Intake     |  |  |  |  |
| 8    | 110-8291    | 1    | Rod-Prop, Hood    |  |  |  |  |
| 9    | 3272-6      | 1    | Pin-Cotter        |  |  |  |  |
| 10   | 3274-39     | 4    | Screw-HSBH        |  |  |  |  |
| 11   | 3296-2      | 4    | Nut-Lock          |  |  |  |  |
| 12   | 3229-11     | 3    | Screw-CARR        |  |  |  |  |
| 13   | 103-2897    | 2    | Latch-Catch       |  |  |  |  |
| 14   | 110-8285-03 | 1    | Angle-Seal        |  |  |  |  |
| 15   | 110-9795    | 1    | Support-Hood      |  |  |  |  |
| 15:2 | 110-9781    | 1    | Decal-Danger      |  |  |  |  |
| 16   | 108-9811    | 1    | Support-Rod, Prop |  |  |  |  |
| 17   | 110-8287    | 1    | Bulb-Seal         |  |  |  |  |
| 18   | 3234-33     | 8    | Screw-HHF         |  |  |  |  |
| 19   | 104-7201    | 11   | Nut-HF            |  |  |  |  |
| 20   | 110-8288    | 2    | Seal-Foam         |  |  |  |  |
| 21   | 112-1694    | 1    | Seal-Bulb         |  |  |  |  |
| 22   | 114-4899    | 17   | Plug-Plastic      |  |  |  |  |

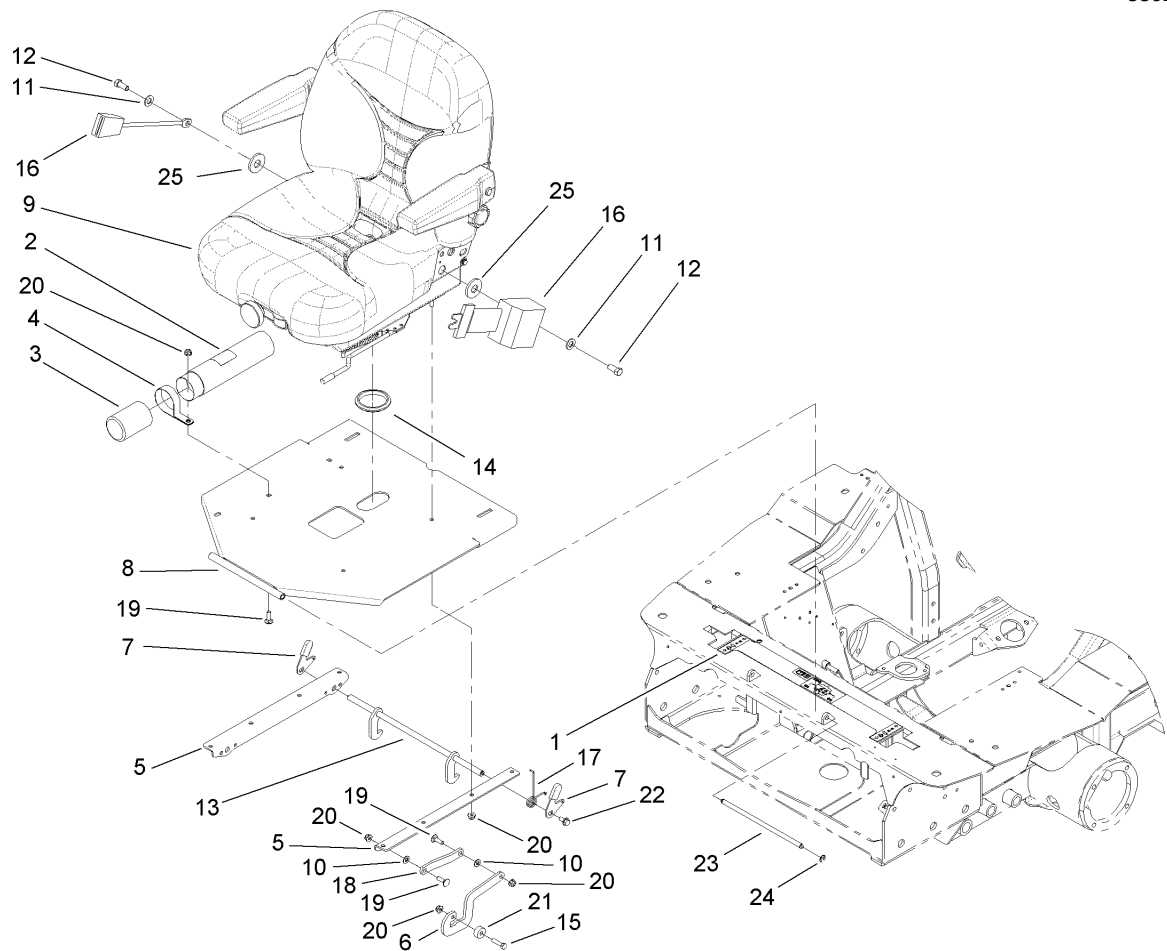




# LH Fuel Tank Assembly No. 110-8230

| Ref | Part No. | Qty. | Description      |  |  |  |  |
|-----|----------|------|------------------|--|--|--|--|
| 2   | 110-8262 | 1    | Gauge-Fuel       |  |  |  |  |
| 3   | 95-8972  | 1    | Grommet          |  |  |  |  |
| 4   | 104-5228 | 1    | Fitting-Elbow    |  |  |  |  |
| 5   | 46-6560  | 2    | Bushing          |  |  |  |  |
| 6   | 1-643259 | 1    | Fitting-Elbow    |  |  |  |  |
| 7   | 112-6374 | 1    | Fitting-Strainer |  |  |  |  |
| 8   | 2412-36  | 1    | Clamp-Hose       |  |  |  |  |

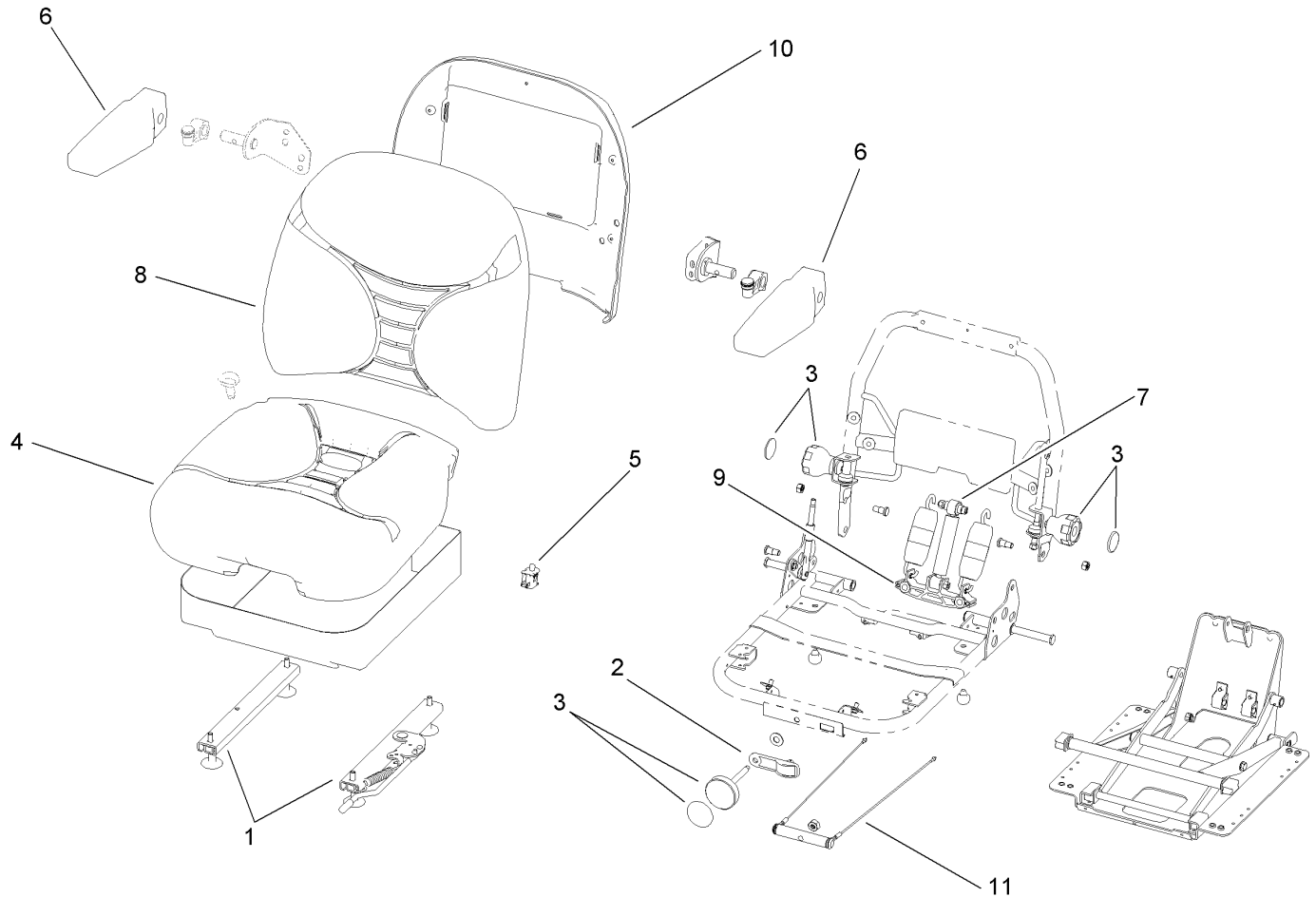




## Seat Assembly

| Ref | Part No.    | Qty. | Description      |
|-----|-------------|------|------------------|
| 1   | 110-9774    | 1    | Decal-Safety     |
| 2   | 104-7050    | 1    | Housing-Manual   |
| 3   | 104-7048    | 1    | Cap-Housing      |
| 4   | 2412-133    | 2    | R-Clamp          |
| 5   | 108-5238-03 | 2    | Angle-Latch      |
| 6   | 110-5512    | 1    | Lever-Stop, Seat |
| 7   | 108-5243    | 2    | Lever-Latch      |
| 8   | 107-2272-03 | 1    | Plate-Seat       |
| 9   | 107-2286    | 1    | Seat ASM         |
| 10  | 3256-23     | 2    | Washer-Flat      |
| 11  | 3256-25     | 2    | Washer-Flat      |
| 12  | 3212-4      | 2    | Screw-HH         |
| 13  | 108-5240    | 1    | Latch ASM        |
| 14  | 237-164     | 1    | Grommet          |
| 15  | 322-6       | 1    | Screw-HH         |
| 16  | 100-4928    | 1    | Belt-Seat        |
| 17  | 106-4048    | 1    | Spring-Torsion   |
| 18  | 110-5513    | 1    | Link-Seat        |
| 19  | 3230-2      | 4    | Bolt-CARR        |
| 20  | 104-8300    | 9    | Nut-Flange, NI   |
| 21  | 104-1429    | 1    | Spacer-Plain     |
| 22  | 32144-14    | 2    | Screw-HWHTF      |
| 23  | 112-1686    | 1    | Pin-Clevis       |
| 24  | 105-7004    | 2    | E-Ring           |

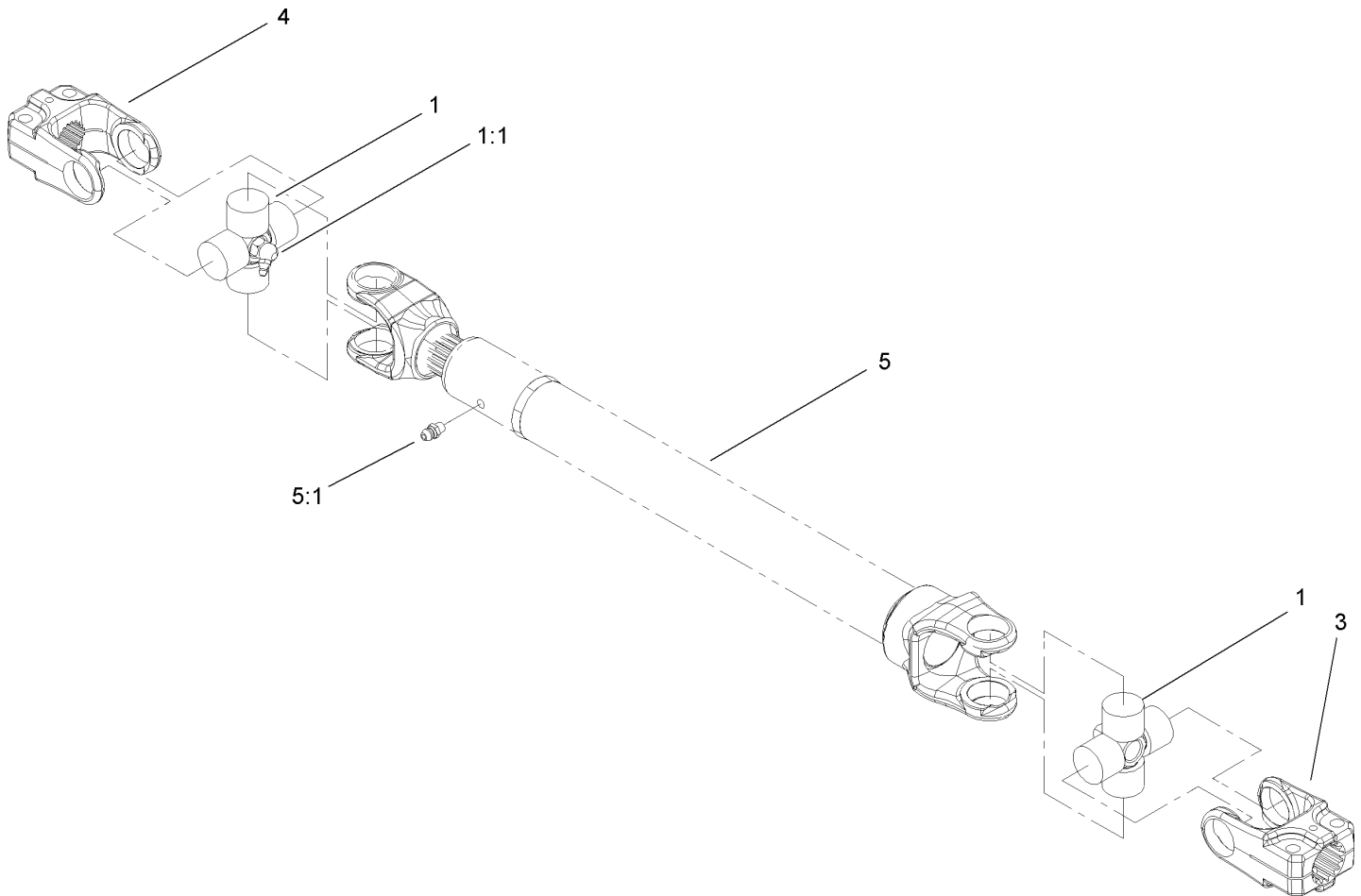
| Ref | Part No. | Qty. | Description |
|-----|----------|------|-------------|
| 25  | 99-7667  | 2    | Washer-Flat |



# Seat Assembly No. 107-2286

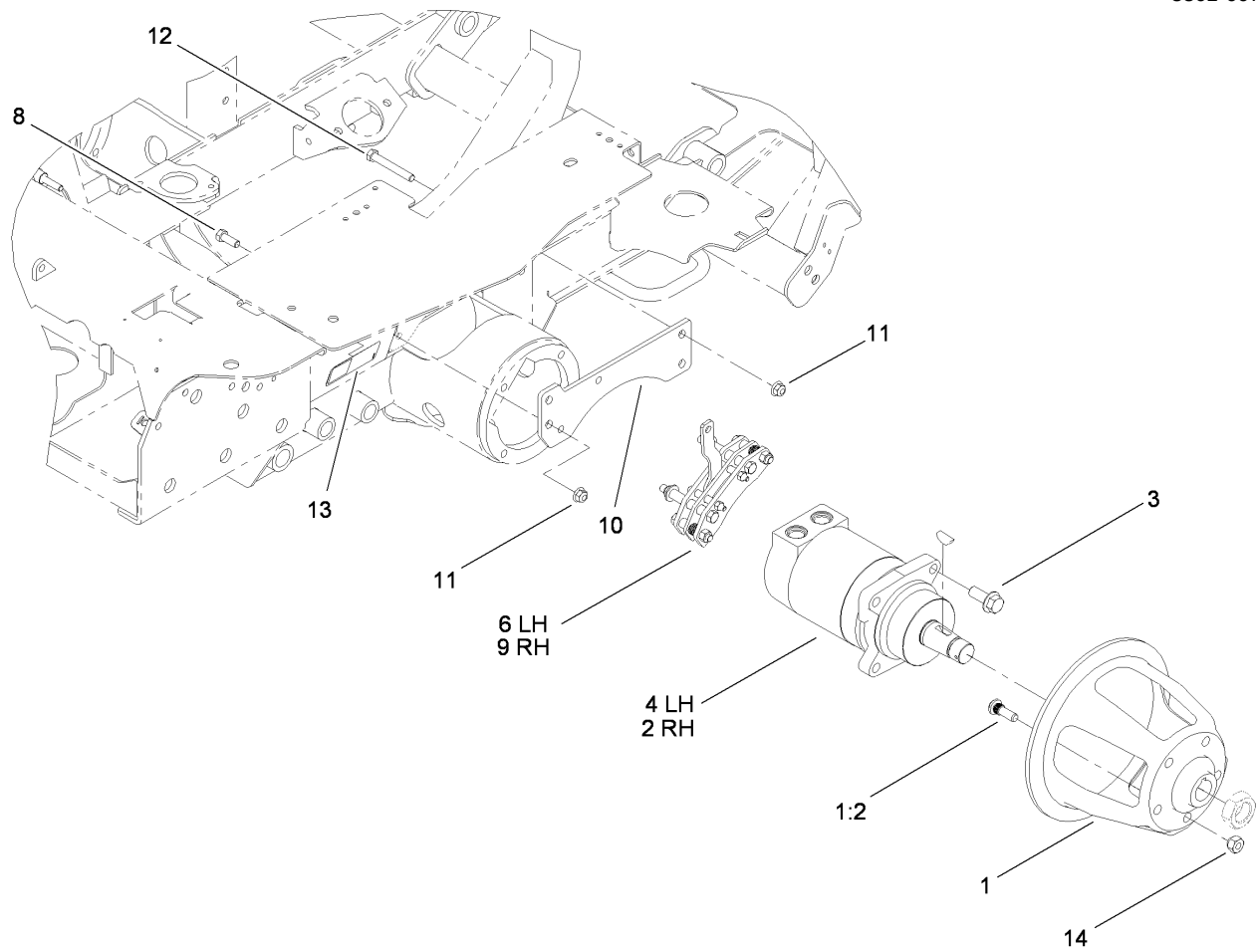
| Ref | Part No. | Qty. | Description           |  |  |  |  |
|-----|----------|------|-----------------------|--|--|--|--|
| 1   | 107-1880 | 1    | Seat Track Kit        |  |  |  |  |
| 2   | 107-1885 | 1    | Weight Indicator Kit  |  |  |  |  |
| 3   | 107-1881 | 1    | Knob Kit              |  |  |  |  |
| 4   | 107-1883 | 1    | Bottom Cushion Kit    |  |  |  |  |
| 5   | 82-2190  | 1    | Switch-Bail           |  |  |  |  |
| 6   | 107-1887 | 1    | Armrest Kit           |  |  |  |  |
| 7   | 107-1884 | 1    | Shock Absorber Kit    |  |  |  |  |
| 8   | 107-1882 | 1    | Back Cushion Kit      |  |  |  |  |
| 9   | 109-3343 | 1    | Spring And Saddle Kit |  |  |  |  |
| 10  | 109-3344 | 1    | Back Panel Kit        |  |  |  |  |
| 11  | 109-3345 | 1    | Weight Adjust Kit     |  |  |  |  |





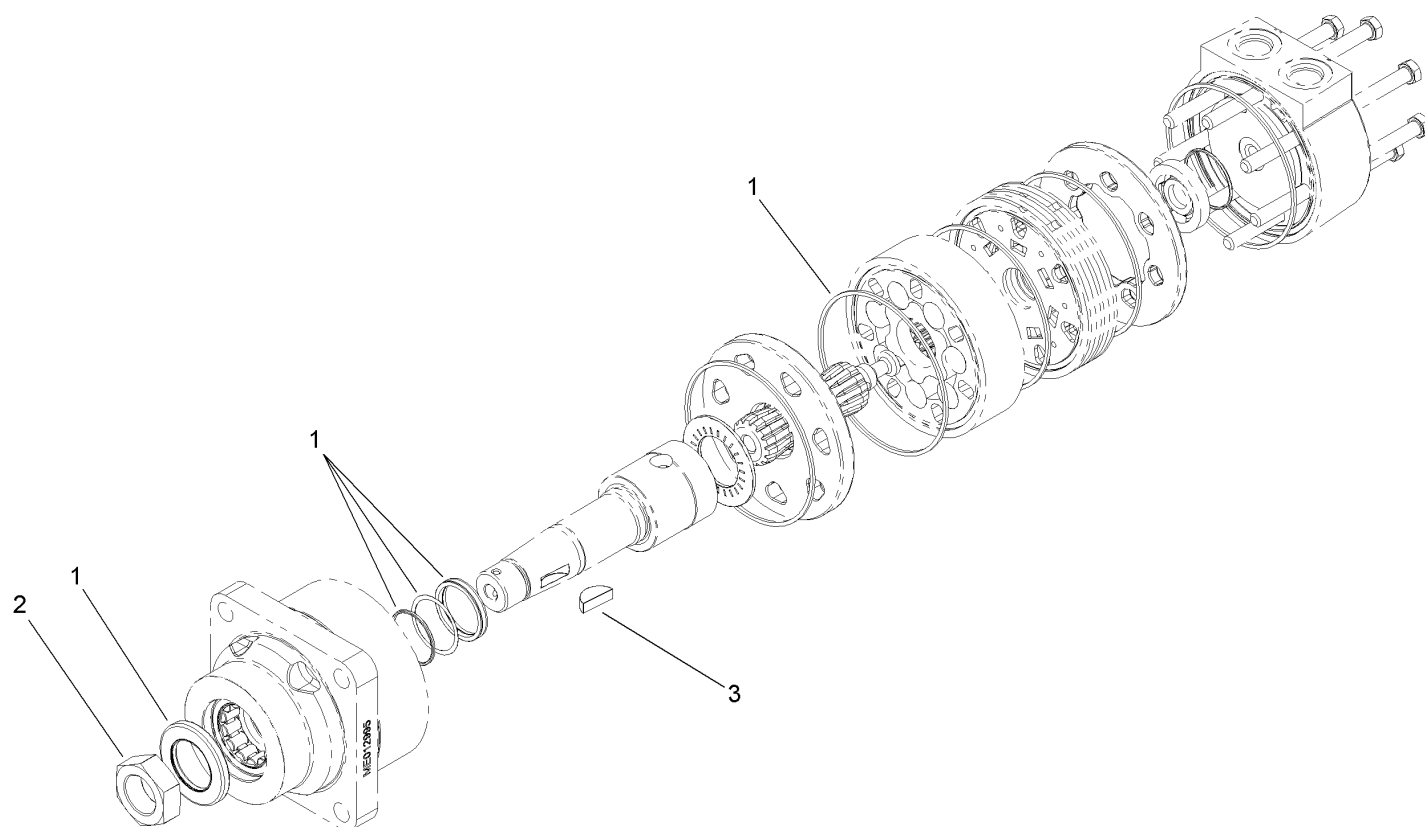
## Driveshaft Assembly No. 110-3575

| Ref | Part No. | 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              |  |  |  |  |
| 25  |          | 1    | Tube-Yoke, Slip       |  |  |  |  |
| 5:1 | 302-22   | 1    | Fitting-Grease        |  |  |  |  |



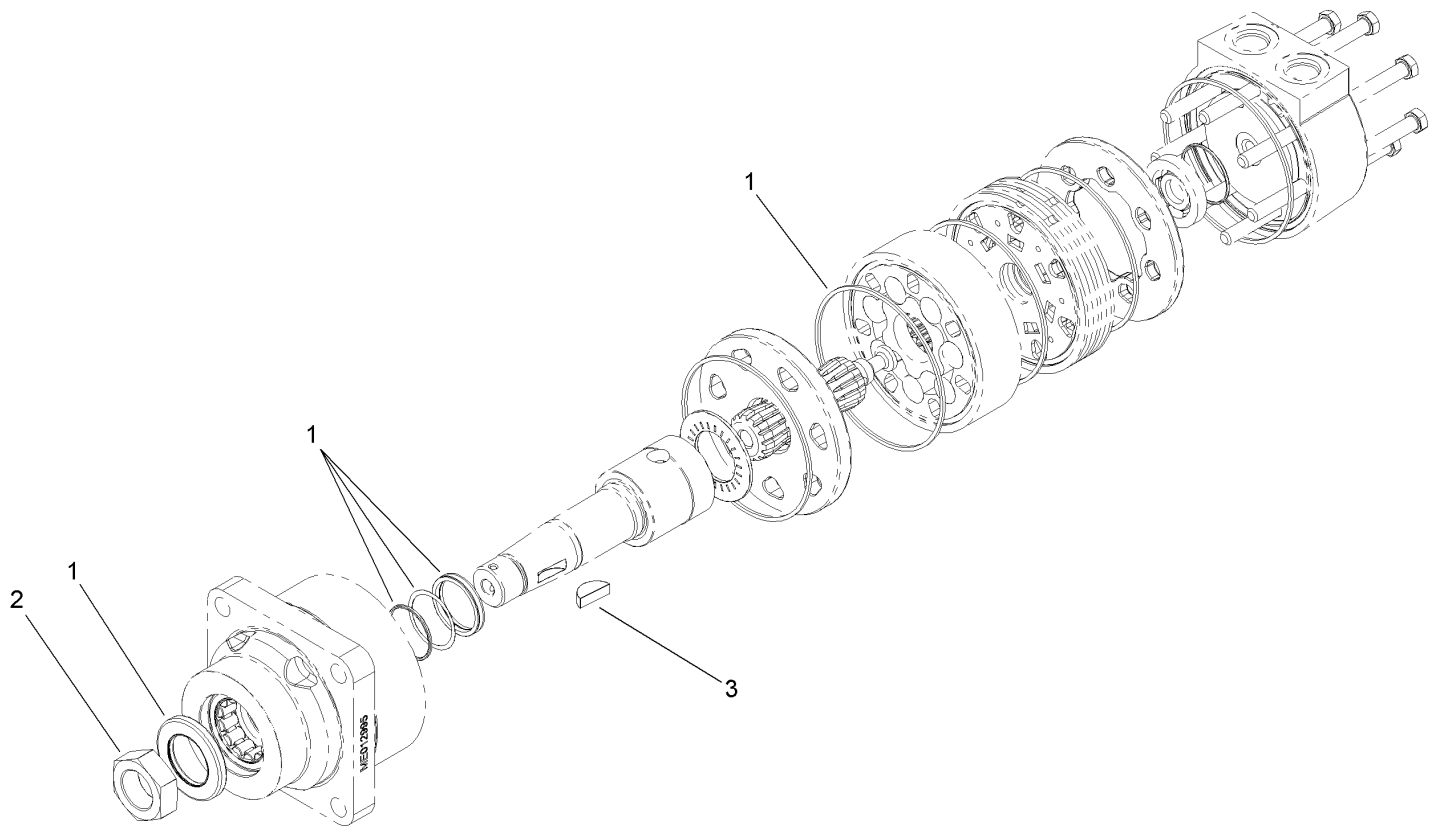
Rear Drive Assembly

| Ref | Part No.    | Qty. | Description         |  |  |  |  |
|-----|-------------|------|---------------------|--|--|--|--|
| 1   | 110-5535    | 2    | Wheel Hub ASM       |  |  |  |  |
| 1:2 | 87-8730     | 5    | Stud                |  |  |  |  |
| 2   | 108-5230    | 1    | RH HYD Motor ASM    |  |  |  |  |
| 3   | 100-6116    | 8    | Screw-HHF           |  |  |  |  |
| 4   | 108-5155    | 1    | LH HYD Motor ASM    |  |  |  |  |
| 6   | 108-5151    | 1    | Caliper-Brake, LH   |  |  |  |  |
| 8   | 323-6       | 4    | Screw-HH            |  |  |  |  |
| 9   | 108-5150    | 1    | Caliper-Brake, RH   |  |  |  |  |
| 10  | 112-9550-03 | 2    | Bracket-Brake       |  |  |  |  |
| 11  | 104-8301    | 8    | Nut-Flange, NI      |  |  |  |  |
| 12  | 323-14      | 4    | Screw-HH            |  |  |  |  |
| 13  | 106-9206    | 2    | Decal-Torque, Wheel |  |  |  |  |
| 14  | 23-7270     | 10   | Nut-Wheel           |  |  |  |  |



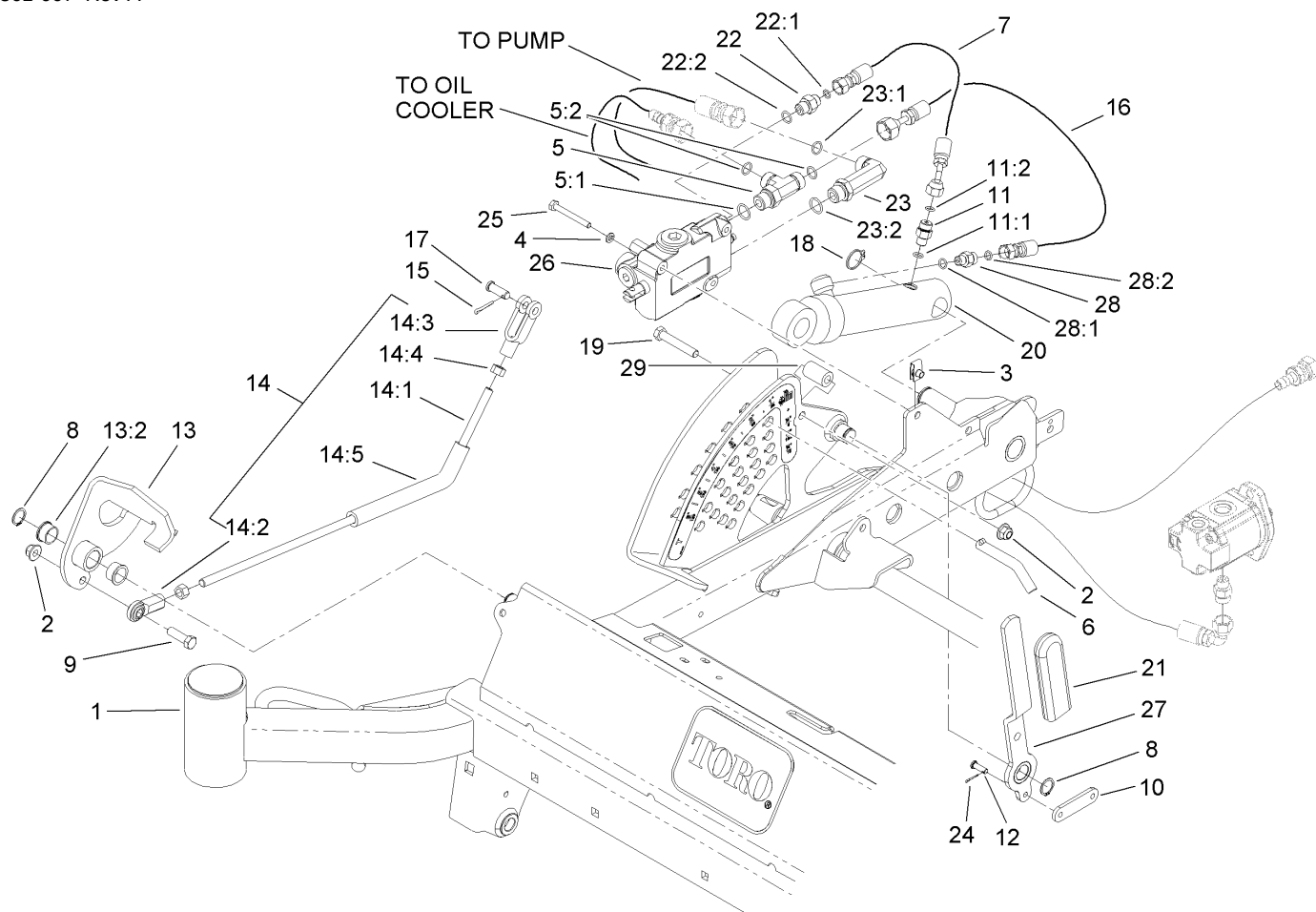
# Hydraulic Motor Assembly No. 108-5230

| Ref | Part No. | Qty. | Description  |
|-----|----------|------|--------------|
| 1   | 112-8405 | 1    | Seal Kit     |
| 2   | 107-9319 | 1    | Nut-Hex      |
| 3   | 3257-42  | 1    | Key-Woodruff |



# Hydraulic Motor Assembly No. 108-5155

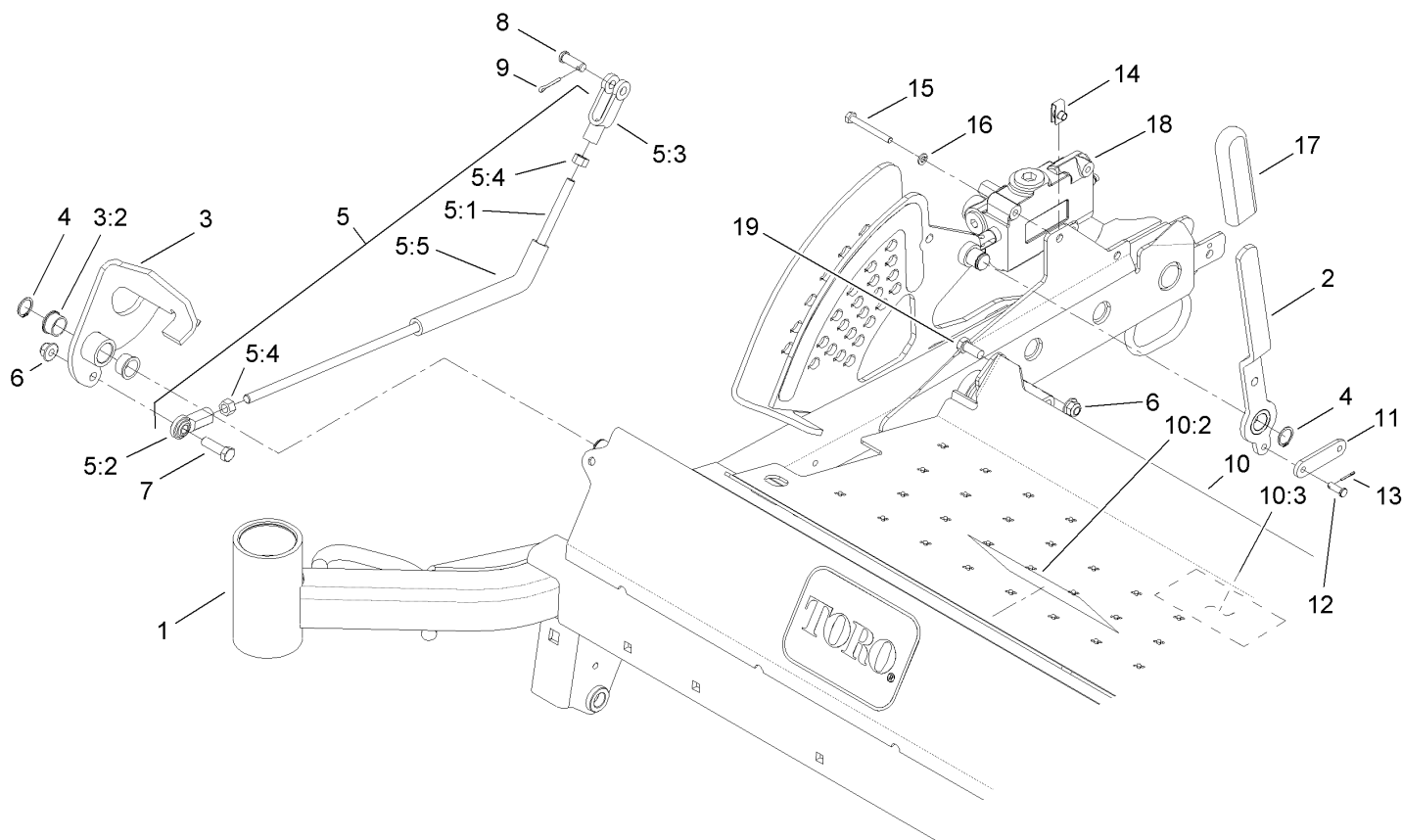
| Ref | Part No. | Qty. | Description  |
|-----|----------|------|--------------|
| 1   | 112-8405 | 1    | Seal Kit     |
| 2   | 107-9319 | 1    | Nut-Hex      |
| 3   | 3257-42  | 1    | Key-Woodruff |



## Carrier Frame and Valve Assembly

| Ref  | Part No. | Qty. | Description           |
|------|----------|------|-----------------------|
| 1    | 114-4087 | 1    | Carrier Frame Kit ASM |
| 2    | 104-8301 | 2    | Nut-Flange, NI        |
| 3    | 107069   | 2    | Clip                  |
| 4    | 3253-3   | 2    | Washer-Lock           |
| 5    | 340-109  | 1    | Fitting-HYD, Tee      |
| 5:1  | 237-79   | 1    | O-Ring                |
| 5:2  | 237-30   | 2    | O-Ring                |
| 6    | 112-9544 | 1    | Pin-HOC               |
| 7    | 110-8966 | 1    | Hose ASM              |
| 8    | 32120-72 | 2    | Ring-Snap             |
| 9    | 323-7    | 1    | Screw-HH              |
| 10   | 114-4042 | 1    | Link                  |
| 11   | 95-1639  | 1    | Fitting-HYD           |
| 11:1 | 237-78   | 1    | O-Ring                |
| 11:2 | 237-21   | 1    | O-Ring                |
| 12   | 1-808265 | 2    | Pin-Clevis            |
| 13   | 112-9534 | 1    | Pedal ASM             |
| 13:2 | 256-252  | 2    | Bearing-Flange        |
| 14   | 112-9539 | 1    | Link ASM              |
| 14:1 | 112-9535 | 1    | Rod-Threaded          |
| 14:2 | 103-0608 | 1    | Joint-Ball, End       |
| 14:3 | 1-633131 | 1    | Yoke-Linkage, Brake   |
| 14:4 | 3219-3   | 2    | Nut-Hex               |
| 14:5 | 114-4041 | 1    | Hose-Foam             |

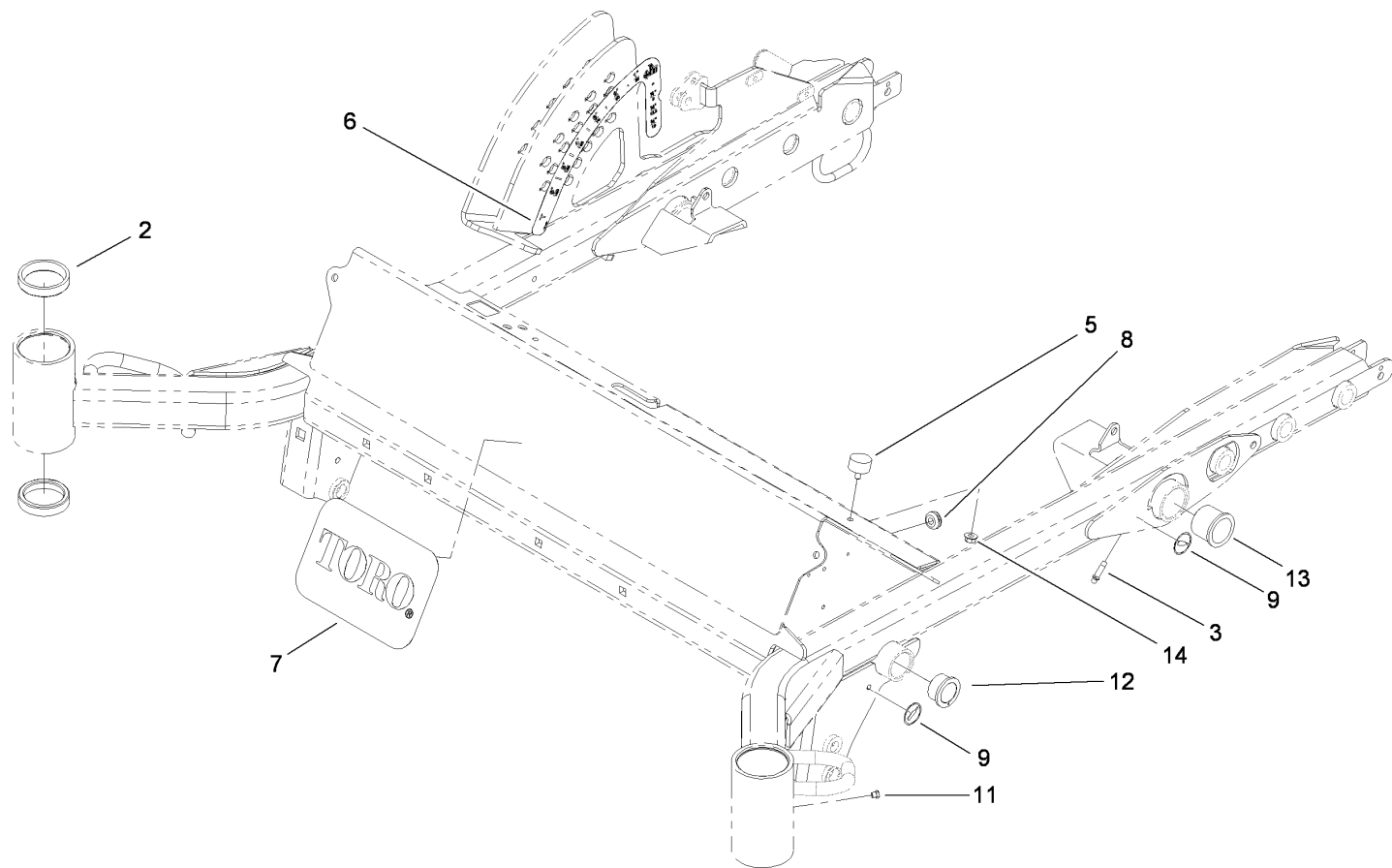
| Ref  | Part No.    | Qty. | Description           |
|------|-------------|------|-----------------------|
| 15   | 3272-10     | 1    | Pin-Cotter            |
| 16   | 112-6324    | 1    | Hose ASM              |
| 17   | 283-2       | 1    | Pin-Clevis            |
| 18   | 32151-36    | 1    | Ring-Retaining        |
| 19   | 323-11      | 1    | Screw-HH              |
| 20   | 110-9834    | 1    | Cylinder-HYD          |
| 21   | 1-633268    | 1    | Grip-Lever, Brake     |
| 22   | 340-1       | 1    | Adapter               |
| 22:1 | 237-21      | 1    | O-Ring                |
| 22:2 | 237-42      | 1    | O-Ring                |
| 23   | 99-6160     | 1    | Fitting-Elbow, 90 DEG |
| 23:1 | 237-30      | 1    | O-Ring                |
| 23:2 | 237-79      | 1    | O-Ring                |
| 24   | 3272-1      | 2    | Pin-Cotter            |
| 25   | 321-18      | 2    | Screw-HH              |
| 26   | 114-2877    | 1    | Valve ASM             |
| 27   | 114-4027-03 | 1    | Lever ASM             |
| 28   | 340-92      | 1    | Fitting-HYD, Straight |
| 28:1 | 237-78      | 1    | O-Ring                |
| 28:2 | 237-21      | 1    | O-Ring                |
| 29   | 115-1425    | 1    | Spacer                |



## Carrier Frame Kit Assembly No. 114-4087

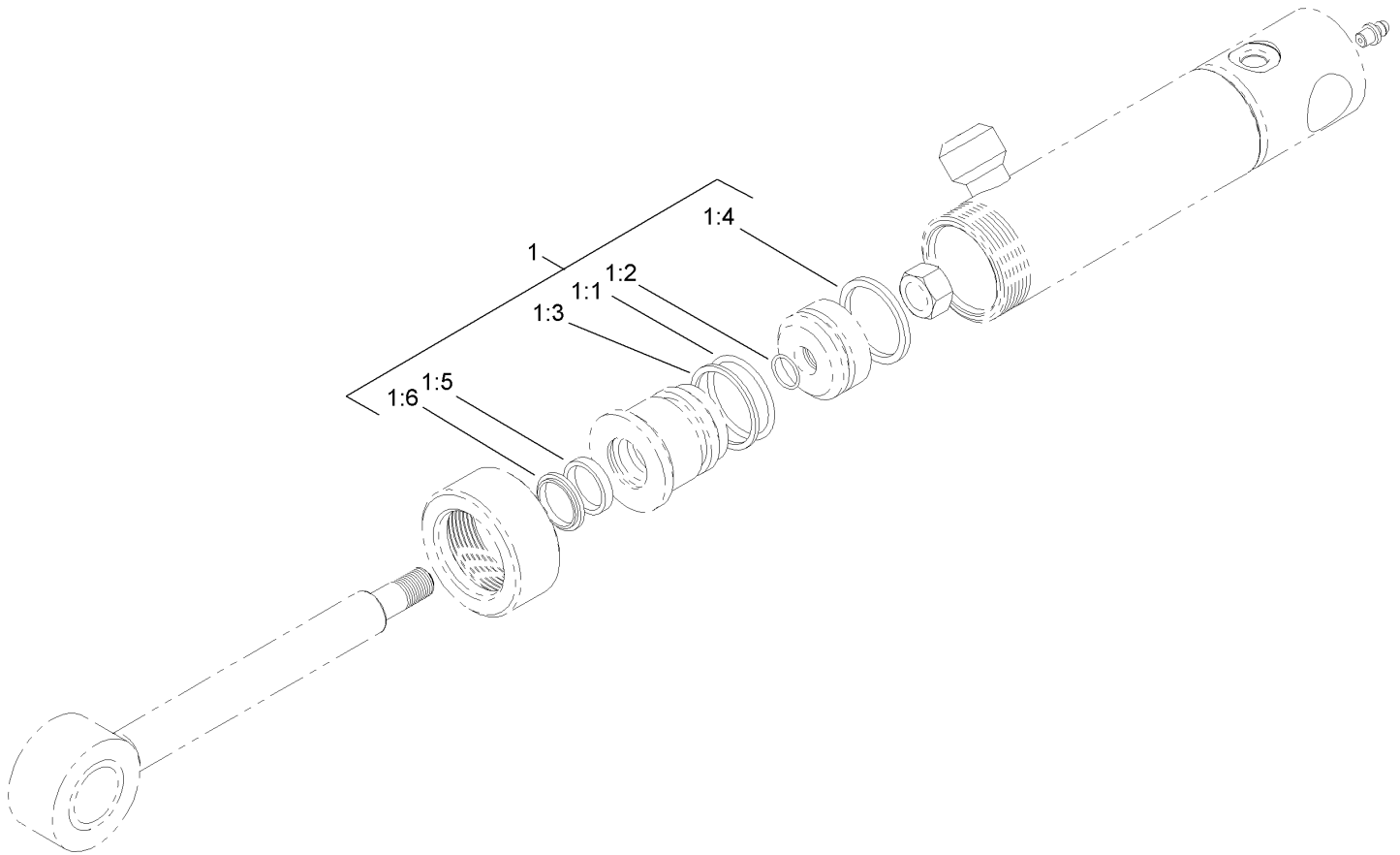
| Ref  | Part No.    | Qty. | Description         |
|------|-------------|------|---------------------|
| ② 1  |             | 1    | Carrier Frame ASM   |
| 2    | 114-4027-03 | 1    | Lever ASM           |
| 3    | 112-9534    | 1    | Pedal ASM           |
| 3:2  | 256-252     | 2    | Bearing-Flange      |
| 4    | 32120-72    | 2    | Ring-Snap           |
| 5    | 112-9539    | 1    | Link ASM            |
| 5:1  | 112-9535    | 1    | Rod-Threaded        |
| 5:2  | 103-0608    | 1    | Joint-Ball, End     |
| 5:3  | 1-633131    | 1    | Yoke-Linkage, Brake |
| 5:4  | 3219-3      | 2    | Nut-Hex             |
| 5:5  | 114-4041    | 1    | Hose-Foam           |
| 6    | 104-8301    | 3    | Nut-Flange, NI      |
| 7    | 323-7       | 1    | Screw-HH            |
| 8    | 283-2       | 1    | Pin-Clevis          |
| 9    | 3272-10     | 1    | Pin-Cotter          |
| 10   | 114-4048    | 1    | Floor Plate ASM     |
| 10:2 | 107-1866    | 1    | Decal-Danger, Slope |
| 10:3 | 112-1461    | 1    | Decal-Routing, Belt |
| 11   | 114-4042    | 1    | Link                |
| 12   | 1-808265    | 2    | Pin-Clevis          |
| 13   | 3272-1      | 2    | Pin-Cotter          |
| 14   | 107069      | 2    | Clip                |
| 15   | 321-18      | 2    | Screw-HH            |
| 16   | 3253-3      | 2    | Washer-Lock         |

| Ref | Part No. | Qty. | Description       |
|-----|----------|------|-------------------|
| 17  | 1-633268 | 1    | Grip-Lever, Brake |
| 18  | 114-2877 | 1    | Valve ASM         |
| 19  | 323-5    | 2    | Screw-HH          |



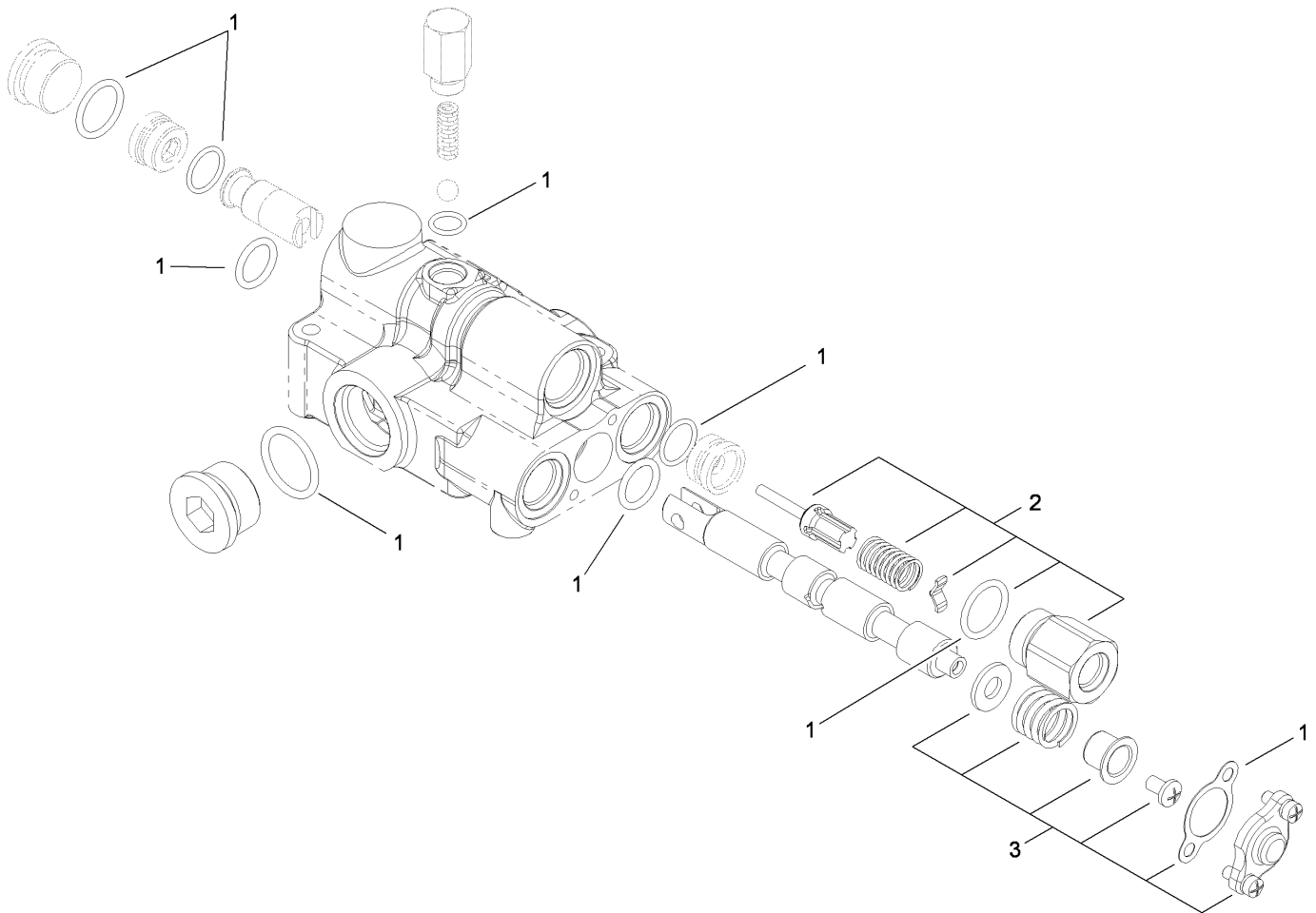
Carrier Frame Assembly No. 112-1631

| Ref | Part No. | Qty. | Description          |  |  |  |  |
|-----|----------|------|----------------------|--|--|--|--|
| 2   | 254-107  | 4    | Cup-Bearing, Tapered |  |  |  |  |
| 3   | 302-64   | 2    | Fitting-Grease       |  |  |  |  |
| 5   | 240-14   | 4    | Bumper-Rubber        |  |  |  |  |
| 6   | 112-1620 | 1    | Decal-HOC            |  |  |  |  |
| 7   | 99-4693  | 1    | Decal                |  |  |  |  |
| 8   | 237-141  | 1    | Grommet-Rubber       |  |  |  |  |
| 9   | 58-6520  | 4    | Decal-Grease         |  |  |  |  |
| 11  | 1-811010 | 2    | Plug                 |  |  |  |  |
| 12  | 94-7574  | 2    | Bushing-Flanged      |  |  |  |  |
| 13  | 256-268  | 2    | Bushing              |  |  |  |  |
| 14  | 104-7201 | 4    | Nut-HF               |  |  |  |  |



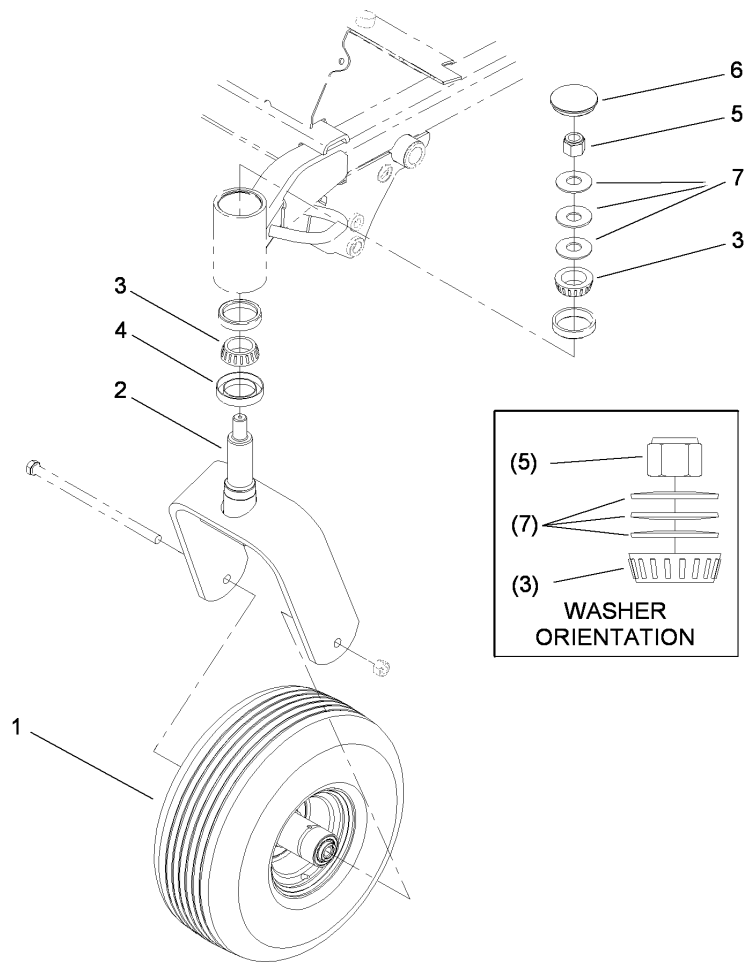
## Hydraulic Cylinder Assembly No. 110-9834

| Ref  | Part No. | Qty. | Description |  |  |  |  |
|------|----------|------|-------------|--|--|--|--|
| 1    | 112-6353 | 1    | Seal Kit    |  |  |  |  |
| 21:1 |          | 1    | O-Ring      |  |  |  |  |
| 21:2 |          | 1    | O-Ring      |  |  |  |  |
| 21:3 |          | 1    | Backup      |  |  |  |  |
| 21:4 |          | 1    | Seal-Bp     |  |  |  |  |
| 21:5 |          | 1    | Seal-Rod    |  |  |  |  |
| 21:6 |          | 1    | Seal-Dust   |  |  |  |  |



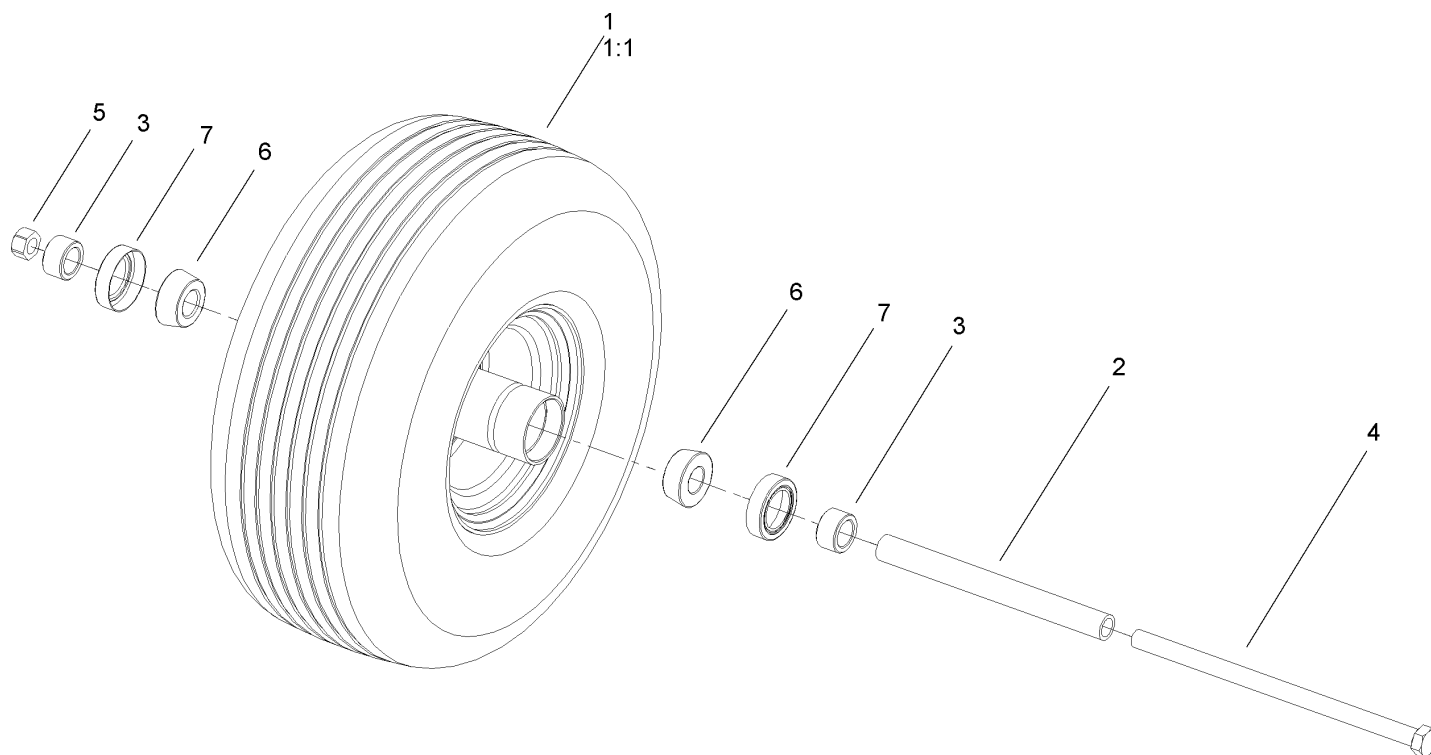
# Hydraulic Valve Assembly No. 114-2877

| Ref | Part No. | Qty. | Description       |
|-----|----------|------|-------------------|
| 1   | 110-6442 | 1    | Seal Kit          |
| 2   | 110-6441 | 1    | Pilot Check Kit   |
| 3   | 114-2889 | 1    | Spring Center Kit |



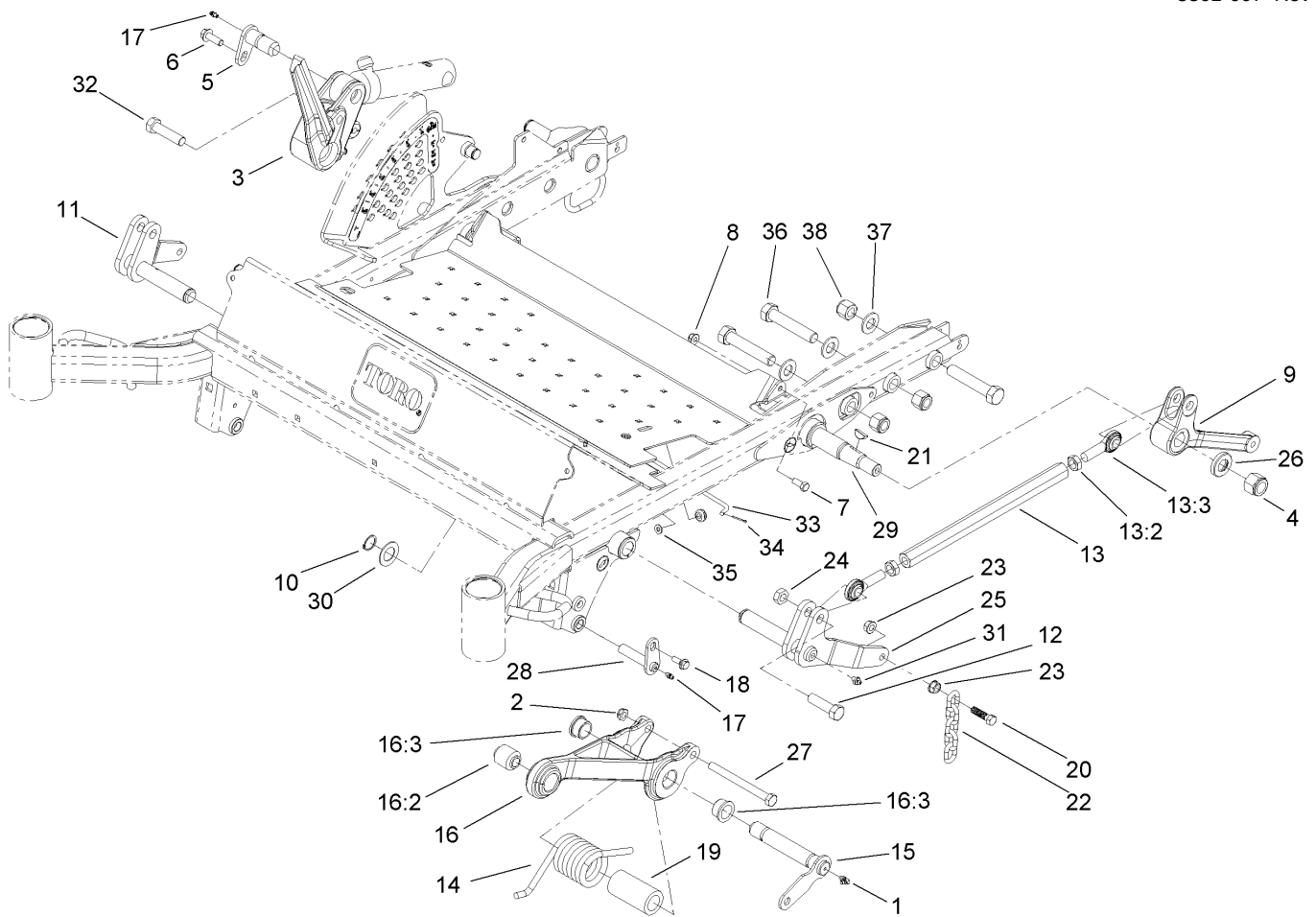
Caster Fork Assembly

| Ref | Part No.    | Qty. | Description           |  |  |  |  |
|-----|-------------|------|-----------------------|--|--|--|--|
| 1   | 108-9954    | 2    | Caster Wheel ASM      |  |  |  |  |
| 2   | 108-9946-03 | 2    | Fork-Caster           |  |  |  |  |
| 3   | 254-106     | 4    | Cone-Bearing, Tapered |  |  |  |  |
| 4   | 69-2980     | 2    | Seal                  |  |  |  |  |
| 5   | 3296-51     | 2    | Nut-Lock, NI          |  |  |  |  |
| 6   | 108-9950    | 2    | Cap-Grease            |  |  |  |  |
| 7   | 108-9957    | 6    | Washer-Belleville     |  |  |  |  |



## Caster Wheel Assembly No. 108-9954

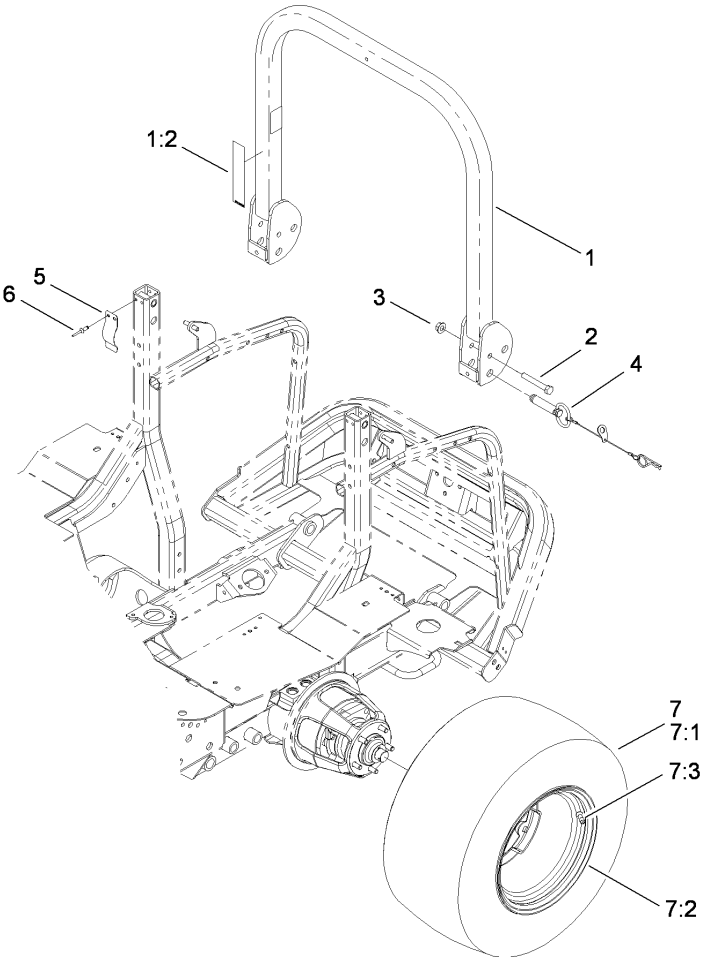
| Ref | Part No. | Qty. | Description          |  |  |  |  |
|-----|----------|------|----------------------|--|--|--|--|
| 1   | 108-9956 | 1    | Tire And Wheel ASM   |  |  |  |  |
| 1:1 | 108-9955 | 1    | Tire                 |  |  |  |  |
| 2   | 1-633959 | 1    | Spacer-Caster, Front |  |  |  |  |
| 3   | 1-633581 | 2    | Spacer-Bearing       |  |  |  |  |
| 4   | 325-39   | 1    | Screw-HH             |  |  |  |  |
| 5   | 3296-25  | 1    | Nut-Lock, NI         |  |  |  |  |
| 6   | 1-633585 | 2    | Bearing-Cone, Taper  |  |  |  |  |
| 7   | 1-633580 | 2    | Seal-Bearing         |  |  |  |  |



## Deck Linkage Assembly

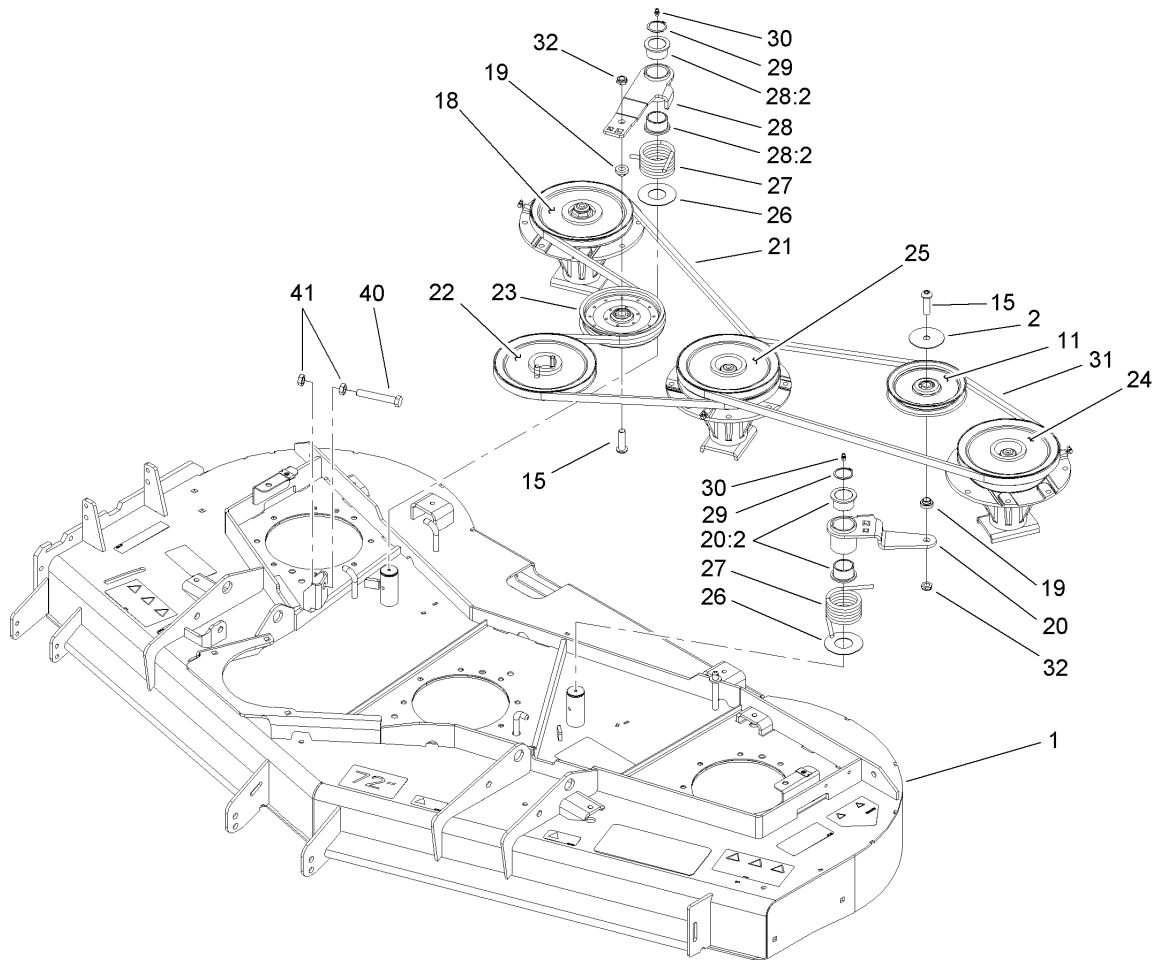
| Ref  | Part No.    | Qty. | Description            |
|------|-------------|------|------------------------|
| 1    | 302-60      | 4    | Fitting-Grease, 90 DEG |
| 2    | 3296-45     | 2    | Nut-Lock, NI           |
| 3    | 112-1635-03 | 1    | Arm-Lift, RH           |
| 4    | 94-8000     | 2    | Nut-Hex                |
| 5    | 98-2654     | 1    | Pivot Pin ASM          |
| 6    | 3234-15     | 1    | Screw                  |
| 7    | 323-5       | 2    | Screw-HH               |
| 8    | 104-8301    | 2    | Nut-Flange, NI         |
| 9    | 112-1637-03 | 1    | Arm-Lift, LH           |
| 10   | 32151-29    | 2    | Ring-Retaining         |
| 11   | 110-9820-03 | 1    | RH Lift ASM            |
| 12   | 327-22      | 3    | Screw-HH               |
| 13   | 114-4059    | 2    | Link ASM               |
| 13:2 | 3220-6      | 2    | Nut-Jam                |
| 13:3 | 1-633029    | 2    | Balljoint-Spherical    |
| 14   | 110-9828    | 2    | Spring-Torsion         |
| 15   | 112-1622    | 2    | Pin                    |
| 16   | 112-1625    | 2    | Pull Link ASM          |
| 16:2 | 107-2328    | 1    | Bushing                |
| 16:3 | 114-5680    | 2    | Bushing-Flange         |
| 17   | 302-5       | 3    | Fitting-Grease         |
| 18   | 32144-41    | 2    | Screw-Taptite          |
| 19   | 110-9845    | 2    | Spacer-Plain           |
| 20   | 103-1898    | 4    | Screw-HH               |

| Ref | Part No.    | Qty. | Description      |
|-----|-------------|------|------------------|
| 21  | 3257-42     | 2    | Key-Woodruff     |
| 22  | 1-633447    | 4    | Chain-Lift, Deck |
| 23  | 32128-37    | 6    | Nut-HF           |
| 24  | 3296-61     | 3    | Nut-Lock         |
| 25  | 110-9818-03 | 1    | LH Lift ASM      |
| 26  | 112-9585    | 2    | Washer-Hardened  |
| 27  | 325-22      | 2    | Screw-HH         |
| 28  | 112-1602    | 2    | Pin-Retainer     |
| 29  | 112-9522-03 | 1    | Shaft-Lift, Deck |
| 30  | 69-9010     | 2    | Washer           |
| 31  | 302-2       | 2    | Fitting-Grease   |
| 32  | 327-7       | 1    | Screw-HH         |
| 33  | 110-9847    | 1    | Rod-Prop         |
| 34  | 3272-6      | 1    | Pin-Cotter       |
| 35  | 3256-22     | 1    | Washer-Flat      |
| 36  | 328-7       | 5    | Screw-HH         |
| 37  | 92-5836     | 5    | Washer           |
| 38  | 3296-51     | 5    | Nut-Lock, NI     |



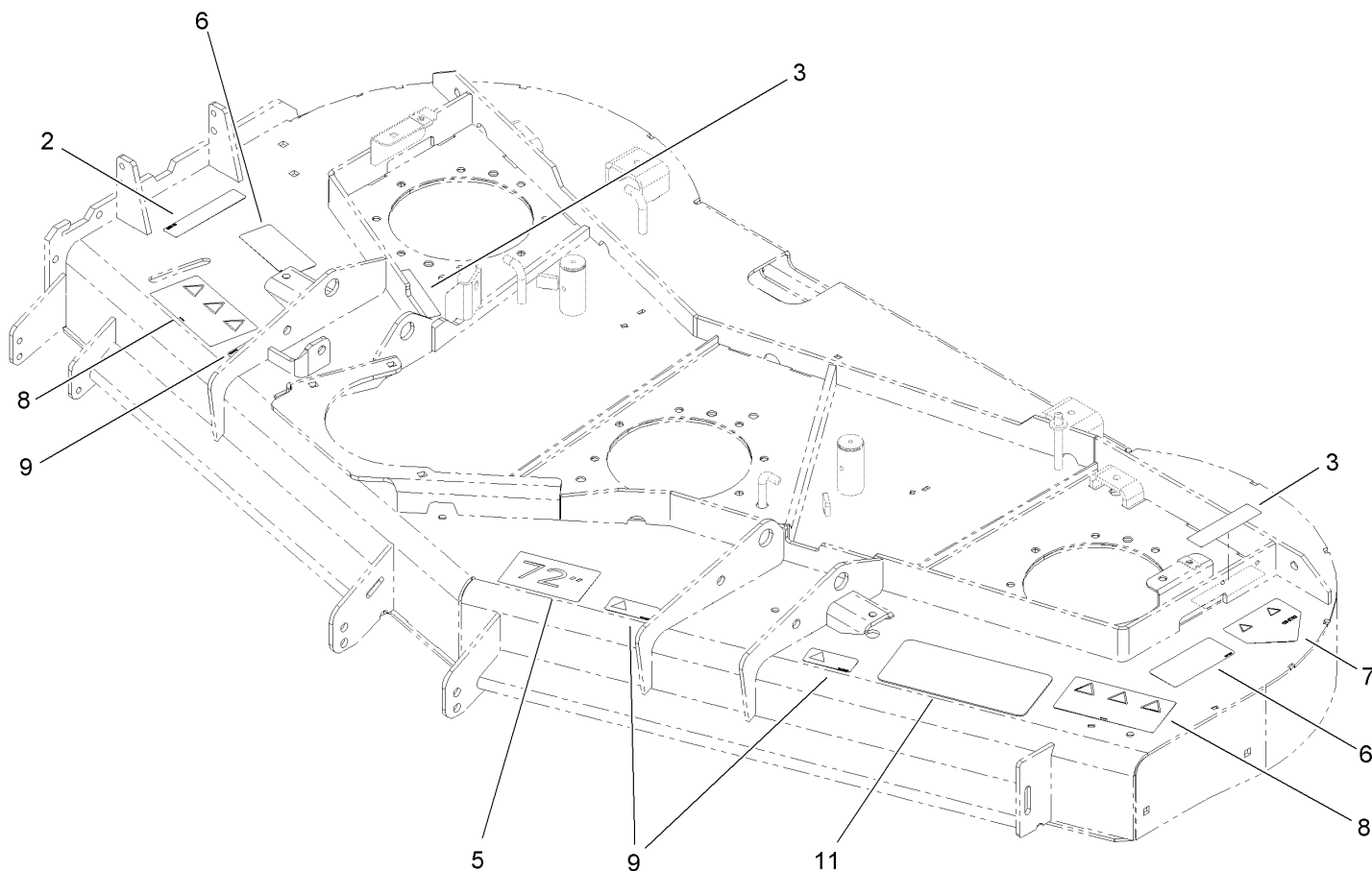
**Roll-Over Protection System and  
Rear Wheel Assembly**

| Ref | Part No. | Qty. | Description                      |  |  |  |  |
|-----|----------|------|----------------------------------|--|--|--|--|
| 1   | 110-9770 | 1    | Upper ROPS ASM                   |  |  |  |  |
| 1:2 | 107-3069 | 1    | Decal-Warning, Folding ROPS (Ce) |  |  |  |  |
| 2   | 325-13   | 2    | Screw-HH                         |  |  |  |  |
| 3   | 32128-23 | 2    | Nut-HF                           |  |  |  |  |
| 4   | 103-4553 | 2    | ROPS Fold Pin ASM                |  |  |  |  |
| 5   | 110-5696 | 2    | Spring-Leaf                      |  |  |  |  |
| 6   | 3290-412 | 4    | Rivet                            |  |  |  |  |
| 7   | 106-7864 | 2    | Tire And Wheel ASM               |  |  |  |  |
| 7:1 | 106-7868 | 1    | Tire                             |  |  |  |  |
| 7:2 | 87-6750  | 1    | Wheel                            |  |  |  |  |
| 7:3 | 232-27   | 1    | Stem-Valve                       |  |  |  |  |



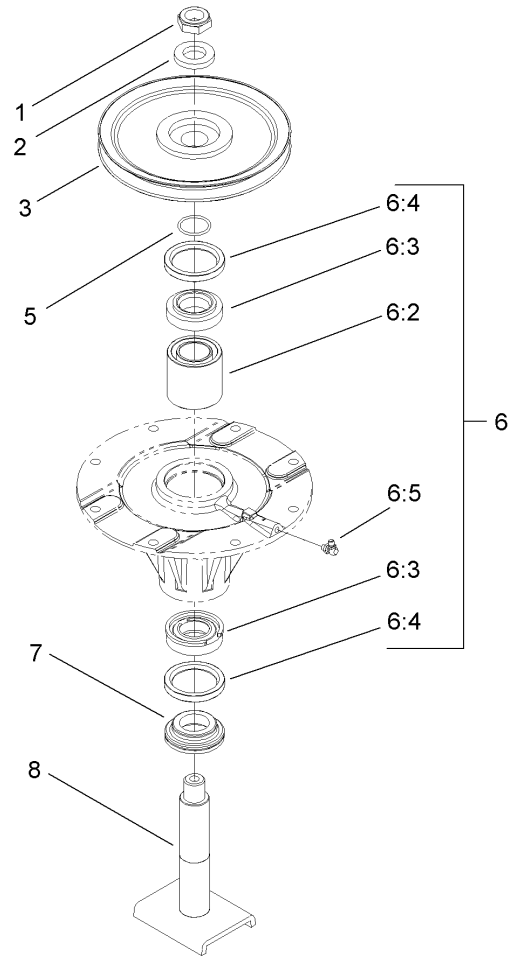
## Belt and Pulley Assembly

| Ref  | Part No.    | Qty. | Description         |  |  |  |  |
|------|-------------|------|---------------------|--|--|--|--|
| 1    | 108-9901    | 1    | Deck ASM            |  |  |  |  |
| 2    | 100-3102    | 1    | Washer-Flat         |  |  |  |  |
| 11   | 01-268-0160 | 1    | Pulley-Idler        |  |  |  |  |
| 15   | 108-1993    | 2    | Screw-HSBH          |  |  |  |  |
| 18   | 108-1957    | 1    | Spindle ASM         |  |  |  |  |
| 19   | 108-1924    | 2    | Spacer-Idler        |  |  |  |  |
| 20   | 110-3564    | 1    | Idler Arm ASM       |  |  |  |  |
| 20:2 | 93-4510     | 2    | Bushing-Caster      |  |  |  |  |
| 21   | 110-9590    | 1    | Belt-V              |  |  |  |  |
| 22   | 107-4767    | 1    | Pulley ASM          |  |  |  |  |
| 23   | 110-9596    | 1    | Pulley-Idler        |  |  |  |  |
| 24   | 110-6382    | 1    | High Spindle ASM    |  |  |  |  |
| 25   | 110-6381    | 1    | Double Spindle ASM  |  |  |  |  |
| 26   | 108-1926    | 2    | Washer              |  |  |  |  |
| 27   | 108-1921    | 2    | Spring-Torsion      |  |  |  |  |
| 28   | 108-1930    | 1    | Idler Arm ASM       |  |  |  |  |
| 28:2 | 93-4510     | 2    | Bushing-Caster      |  |  |  |  |
| 29   | 32120-84    | 2    | Ring-Snap, External |  |  |  |  |
| 30   | 302-5       | 2    | Fitting-Grease      |  |  |  |  |
| 31   | 110-9591    | 1    | Belt-V              |  |  |  |  |
| 32   | 3296-45     | 2    | Nut-Lock, NI        |  |  |  |  |
| 40   | 325-14      | 1    | Screw-HH            |  |  |  |  |
| 41   | 3218-5      | 2    | Nut-Jam             |  |  |  |  |



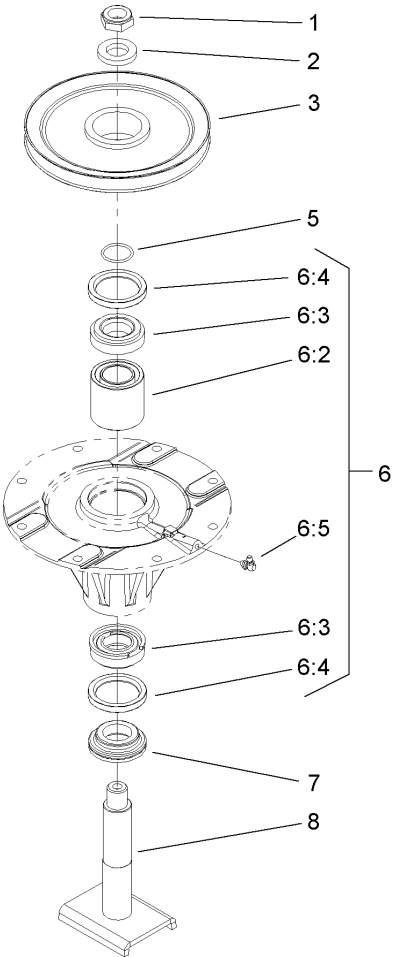
# Deck Decal Assembly No. 108-9901

| Ref | Part No. | Qty. | Description               |
|-----|----------|------|---------------------------|
| 2   | 107-2916 | 1    | Decal-Warning             |
| 3   | 100-6578 | 2    | Decal-Danger              |
| 5   | 57-0280  | 1    | Decal                     |
| 6   | 93-7818  | 2    | Decal-Torque, Blade Bolt  |
| 7   | 106-6753 | 1    | Decal-Danger, Ce          |
| 8   | 107-2908 | 2    | Decal-Danger, Combination |
| 9   | 93-6696  | 3    | Decal-Warning             |
| 11  | 110-0988 | 1    | Tread-Floor, Side         |



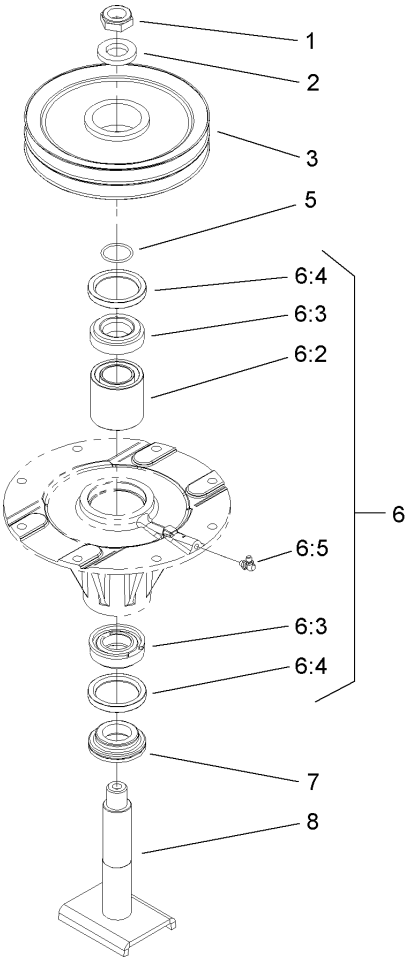
**Spindle Assembly No. 108-1957**

| Ref | Part No. | Qty. | Description            |  |  |  |  |
|-----|----------|------|------------------------|--|--|--|--|
| 1   | 3296-60  | 1    | Nut-Lock, NI           |  |  |  |  |
| 2   | 104-8322 | 1    | Washer-Hardened        |  |  |  |  |
| 3   | 104-3546 | 1    | Pulley-Driven, Low     |  |  |  |  |
| 5   | 106-7159 | 1    | O-Ring                 |  |  |  |  |
| 6   | 108-1991 | 1    | Spindle Housing ASM    |  |  |  |  |
| 6:2 | 108-1954 | 1    | Spacer Set-Bearing     |  |  |  |  |
| 6:3 | 110-8297 | 1    | Bearing ASM            |  |  |  |  |
| 6:4 | 253-154  | 2    | Seal-Oil               |  |  |  |  |
| 6:5 | 302-60   | 1    | Fitting-Grease, 90 DEG |  |  |  |  |
| 7   | 69-6950  | 1    | Spacer-Shaft, Spindle  |  |  |  |  |
| 8   | 108-1956 | 1    | Shaft ASM              |  |  |  |  |



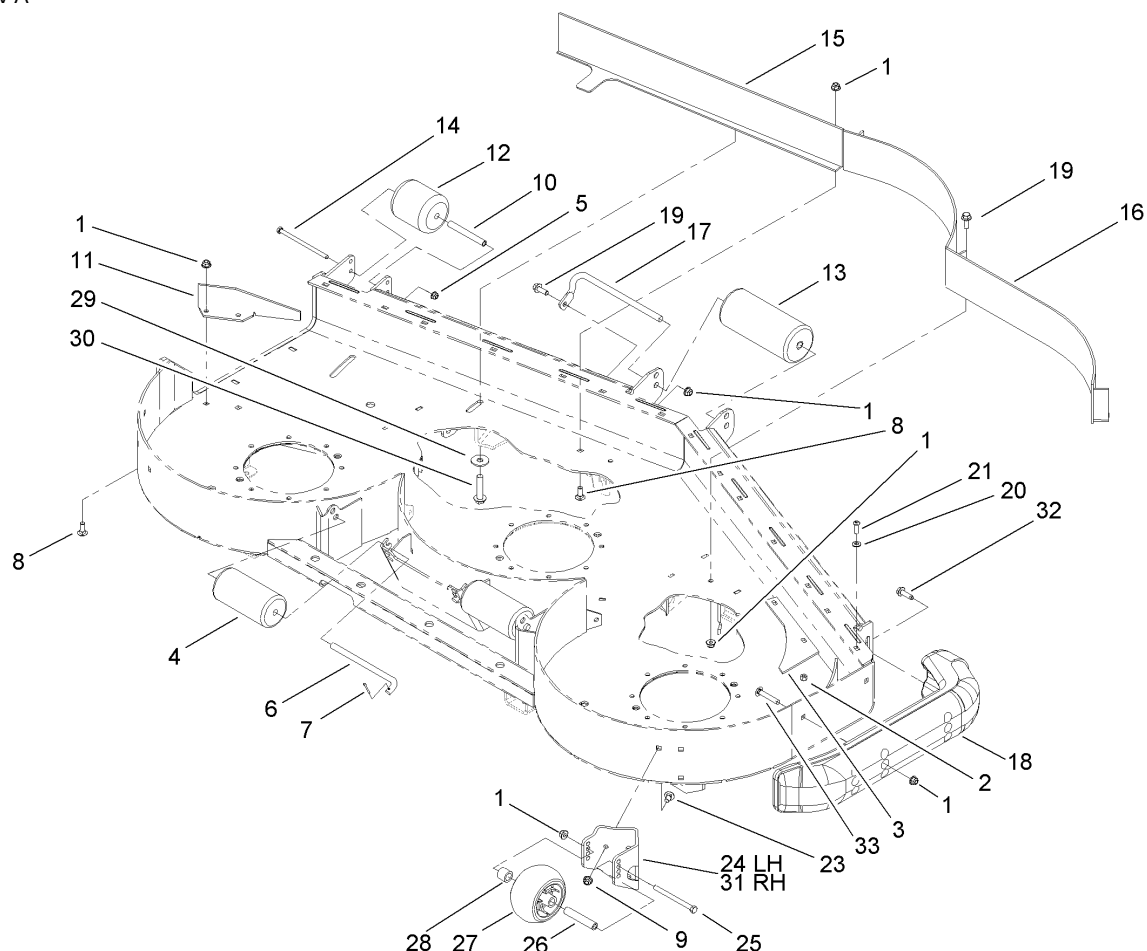
Spindle Assembly No. 110-6382

| Ref | Part No. | Qty. | Description            |  |  |  |  |
|-----|----------|------|------------------------|--|--|--|--|
| 1   | 3296-60  | 1    | Nut-Lock, NI           |  |  |  |  |
| 2   | 104-8322 | 1    | Washer-Hardened        |  |  |  |  |
| 3   | 104-3548 | 1    | Pulley-Driven, High    |  |  |  |  |
| 5   | 106-7159 | 1    | O-Ring                 |  |  |  |  |
| 6   | 108-1991 | 1    | Spindle Housing ASM    |  |  |  |  |
| 6:2 | 108-1954 | 1    | Spacer Set-Bearing     |  |  |  |  |
| 6:3 | 110-8297 | 1    | Bearing ASM            |  |  |  |  |
| 6:4 | 253-154  | 2    | Seal-Oil               |  |  |  |  |
| 6:5 | 302-60   | 1    | Fitting-Grease, 90 DEG |  |  |  |  |
| 7   | 69-6950  | 1    | Spacer-Shaft, Spindle  |  |  |  |  |
| 8   | 108-1956 | 1    | Shaft ASM              |  |  |  |  |



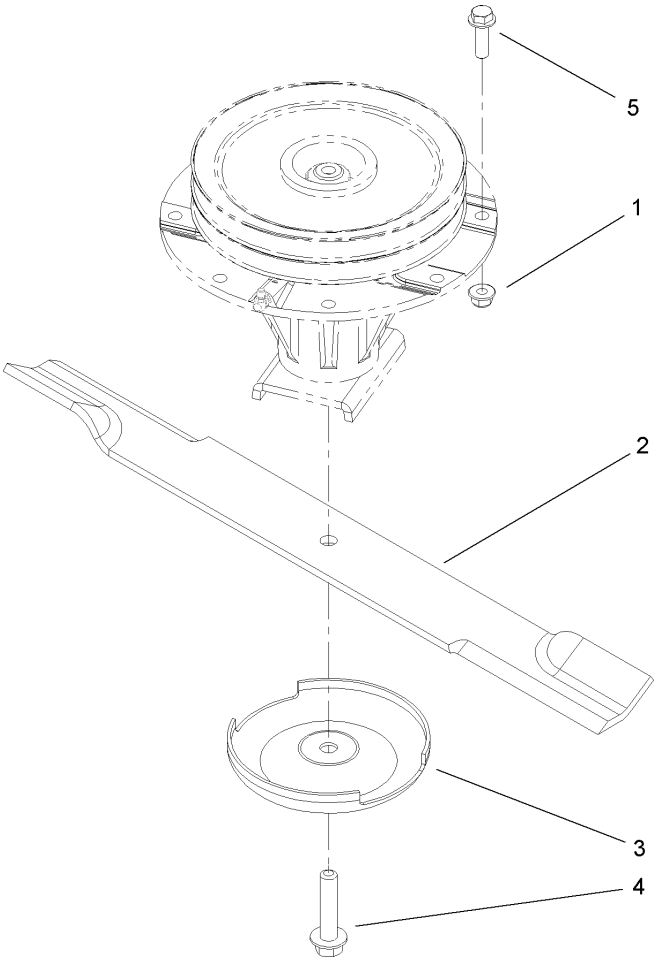
**Spindle Assembly No. 110-6381**

| Ref | Part No. | Qty. | Description            |  |  |  |  |
|-----|----------|------|------------------------|--|--|--|--|
| 1   | 3296-60  | 1    | Nut-Lock, NI           |  |  |  |  |
| 2   | 104-8322 | 1    | Washer-Hardened        |  |  |  |  |
| 3   | 104-3547 | 1    | Pulley-Driven, Double  |  |  |  |  |
| 5   | 106-7159 | 1    | O-Ring                 |  |  |  |  |
| 6   | 108-1991 | 1    | Spindle Housing ASM    |  |  |  |  |
| 6:2 | 108-1954 | 1    | Spacer Set-Bearing     |  |  |  |  |
| 6:3 | 110-8297 | 1    | Bearing ASM            |  |  |  |  |
| 6:4 | 253-154  | 2    | Seal-Oil               |  |  |  |  |
| 6:5 | 302-60   | 1    | Fitting-Grease, 90 DEG |  |  |  |  |
| 7   | 69-6950  | 1    | Spacer-Shaft, Spindle  |  |  |  |  |
| 8   | 108-1956 | 1    | Shaft ASM              |  |  |  |  |



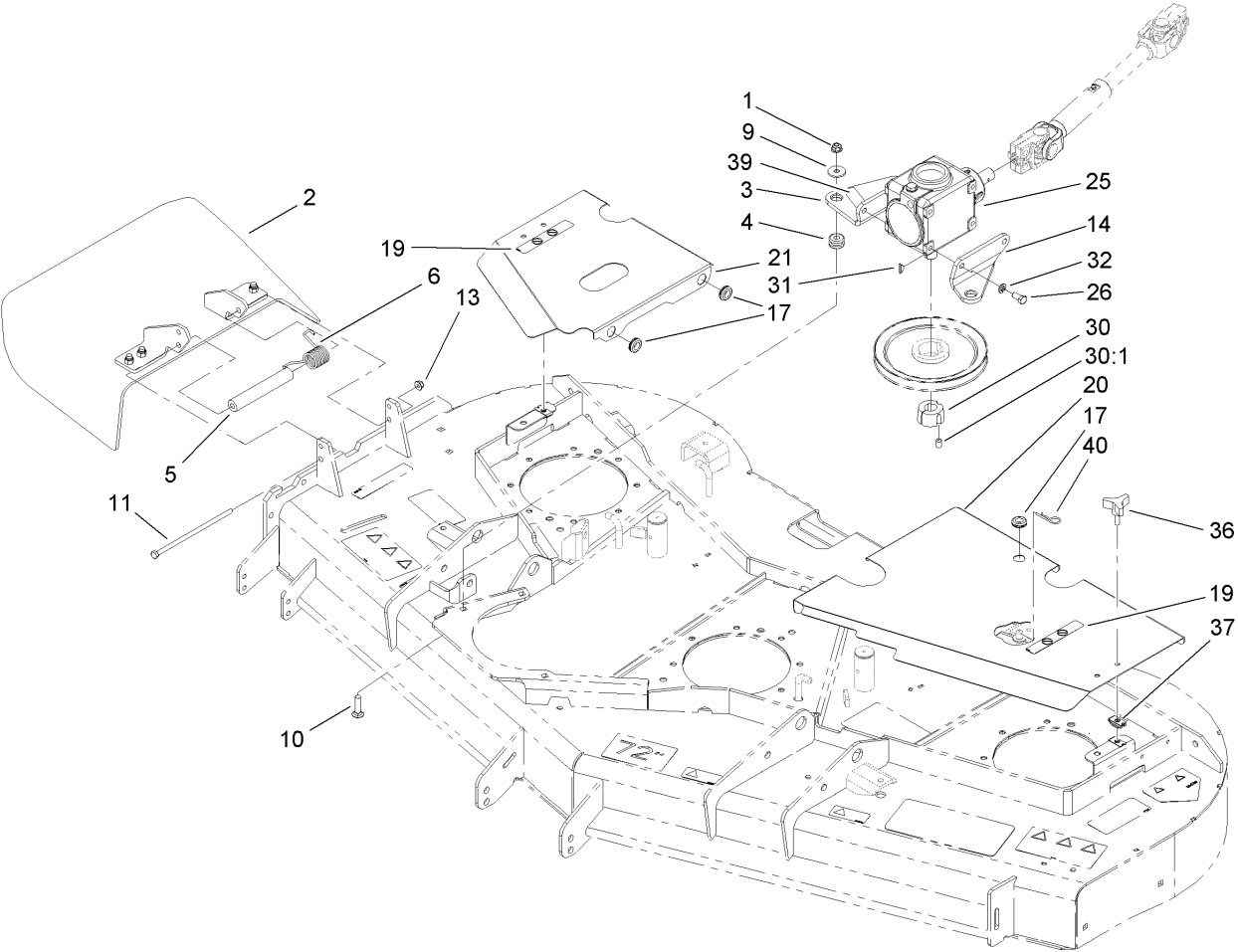
## Roller and Baffle Assembly

| Ref | Part No.    | Qty. | Description        | Ref | Part No.    | Qty. | Description        |
|-----|-------------|------|--------------------|-----|-------------|------|--------------------|
| 1   | 104-8301    | 11   | Nut-Flange, NI     | 26  | 98-7912     | 2    | Tube-Spanner       |
| 2   | 3296-29     | 2    | Nut-Lock, NI       | 27  | 1-603299    | 2    | Roller-Scalp, Anti |
| 3   | 107-3138    | 1    | Plate-Turbo        | 28  | 98-7913     | 2    | Tube-Spacer        |
| 4   | 36-1740     | 2    | Roller-Deck        | 29  | 105-7697    | 2    | Washer-Plastic     |
| 5   | 104-8300    | 1    | Nut-Flange, NI     | 30  | 3234-46     | 2    | Screw-HHF          |
| 6   | 40-0340     | 2    | Shaft-Roller, Rear | 31  | 106-7355-01 | 1    | Plate-Roller, RH   |
| 7   | 3272-11     | 2    | Pin-Cotter         | 32  | 9136144     | 1    | Screw-HWHTF        |
| 8   | 3231-2      | 3    | Screw-CARR         | 33  | 3231-33     | 2    | Screw-CARR         |
| 9   | 3290-357    | 6    | Nut-HHF, Whiz      |     |             |      |                    |
| 10  | 105-4549    | 1    | Spacer-Roller      |     |             |      |                    |
| 11  | 106-3216-01 | 1    | Baffle-Discharge   |     |             |      |                    |
| 12  | 93-4803     | 1    | Roller-Deck        |     |             |      |                    |
| 13  | 68-6710     | 1    | Roller             |     |             |      |                    |
| 14  | 322-49      | 1    | Bolt-HH            |     |             |      |                    |
| 15  | 105-7669-01 | 1    | Baffle ASM         |     |             |      |                    |
| 16  | 105-7730-01 | 1    | Baffle ASM         |     |             |      |                    |
| 17  | 68-6840     | 1    | Shaft-Roller       |     |             |      |                    |
| 18  | 112-1479    | 1    | Skid-Bumper, Deck  |     |             |      |                    |
| 19  | 3234-42     | 4    | Screw-HHF          |     |             |      |                    |
| 20  | 1-303334    | 2    | Washer-Spring      |     |             |      |                    |
| 21  | 3274-104    | 2    | Screw-HSBH         |     |             |      |                    |
| 23  | 3231-1      | 6    | Screw-CARR         |     |             |      |                    |
| 24  | 106-7354-01 | 1    | Mount-Wheel, LH    |     |             |      |                    |
| 25  | 323-23      | 2    | Screw-HH           |     |             |      |                    |



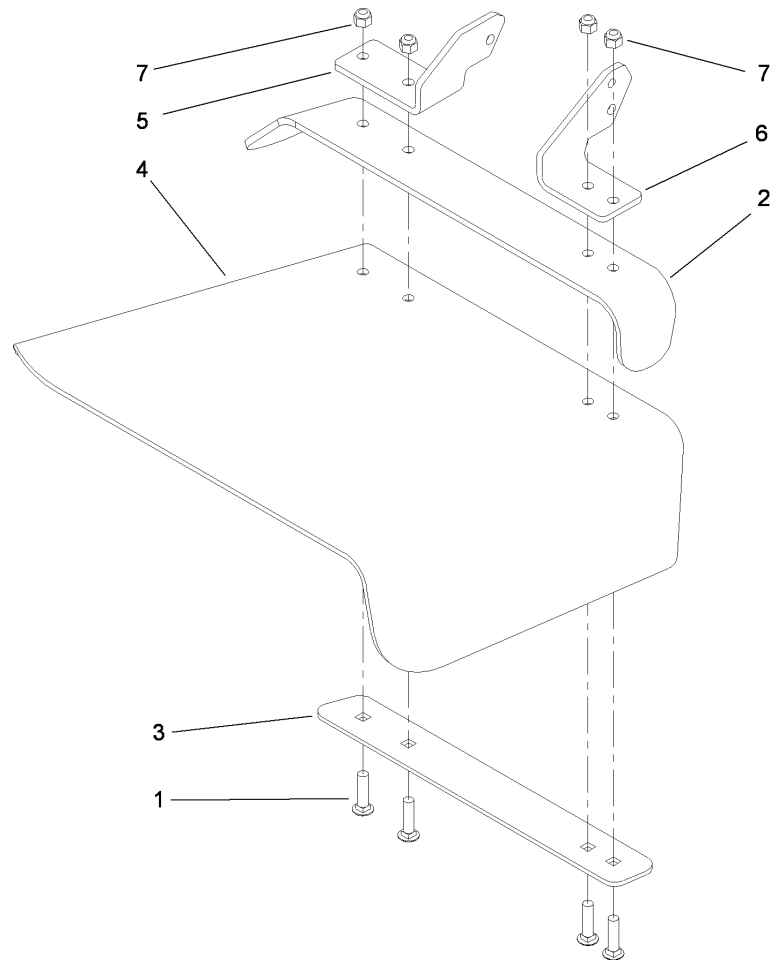
**Spindle and Blade Assembly**

| Ref | Part No.    | Qty. | Description                    |  |  |  |  |
|-----|-------------|------|--------------------------------|--|--|--|--|
| 1   | 104-8301    | 24   | Nut-Flange, NI                 |  |  |  |  |
| ③2  | 110-0624-03 | 3    | Blade-Rotary, Atomic (24.5)    |  |  |  |  |
| ③2  | 110-0622-03 | 3    | Blade-Rotary, High Flow (24.5) |  |  |  |  |
| 2   | 110-0621-03 | 3    | Blade-Rotary, Med. Flow (24.5) |  |  |  |  |
| 3   | 72-9361     | 3    | Cup-Scalp, Anti                |  |  |  |  |
| 4   | 92-5816     | 3    | Bolt-Blade                     |  |  |  |  |
| 5   | 3234-24     | 24   | Screw-HHF                      |  |  |  |  |



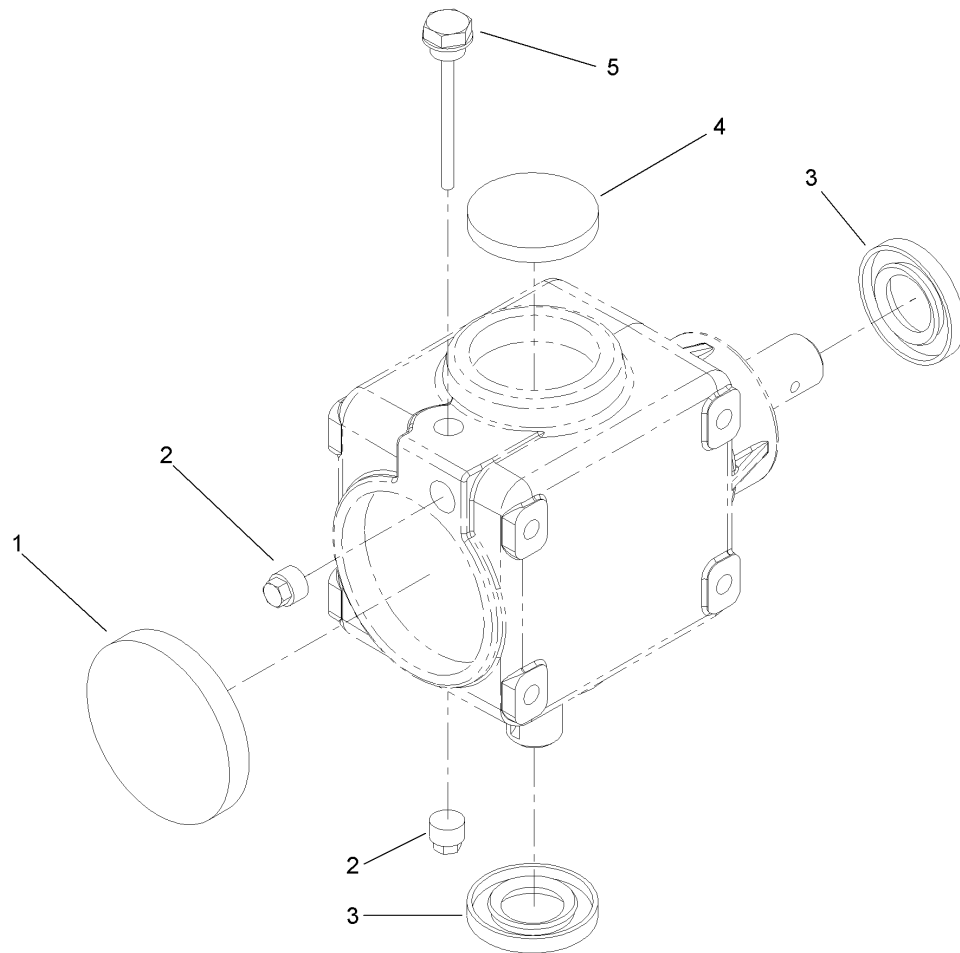
### Belt Cover, Gearbox and Baffle Assembly

| Ref  | Part No.    | Qty. | Description          | Ref | Part No. | Qty. | Description |
|------|-------------|------|----------------------|-----|----------|------|-------------|
| 1    | 104-8301    | 3    | Nut-Flange, NI       | 40  | 9335054  | 1    | Pin-Hair    |
| 2    | 108-2792    | 1    | Rubber Deflector ASM |     |          |      |             |
| 3    | 110-6385-03 | 1    | Bracket-Gearbox, RH  |     |          |      |             |
| 4    | 63-9750     | 3    | Mount                |     |          |      |             |
| 5    | 105-4622    | 1    | Spacer               |     |          |      |             |
| 6    | 108-4052    | 1    | Spring-Torsion       |     |          |      |             |
| 9    | 63-8410     | 3    | Washer               |     |          |      |             |
| 10   | 3231-26     | 3    | Screw-CARR           |     |          |      |             |
| 11   | 112-9557    | 1    | Screw-HH             |     |          |      |             |
| 13   | 104-8300    | 1    | Nut-Flange, NI       |     |          |      |             |
| 14   | 110-6384-03 | 1    | Bracket-Gearbox, LH  |     |          |      |             |
| 17   | 112-9559    | 4    | Grommet              |     |          |      |             |
| 19   | 93-6687     | 2    | Decal-No Step        |     |          |      |             |
| 20   | 112-1455-03 | 1    | Cover-Deck, LH       |     |          |      |             |
| 21   | 112-1456-03 | 1    | Cover-Deck, RH       |     |          |      |             |
| 25   | 110-6386-03 | 1    | Gearbox              |     |          |      |             |
| 26   | 323-4       | 4    | Screw-HH             |     |          |      |             |
| 30   | 23-1640     | 1    | Bushing-Taperlock    |     |          |      |             |
| 30:1 | 3247-4      | 2    | Screw-Set            |     |          |      |             |
| 31   | 3257-5      | 1    | Key-Woodruff         |     |          |      |             |
| 32   | 3253-21     | 4    | Washer-Lock          |     |          |      |             |
| 36   | 106-2240    | 2    | Knob                 |     |          |      |             |
| 37   | 110-3510    | 2    | Nut-Retainer         |     |          |      |             |
| 39   | 93-6697     | 1    | Decal-Lube           |     |          |      |             |



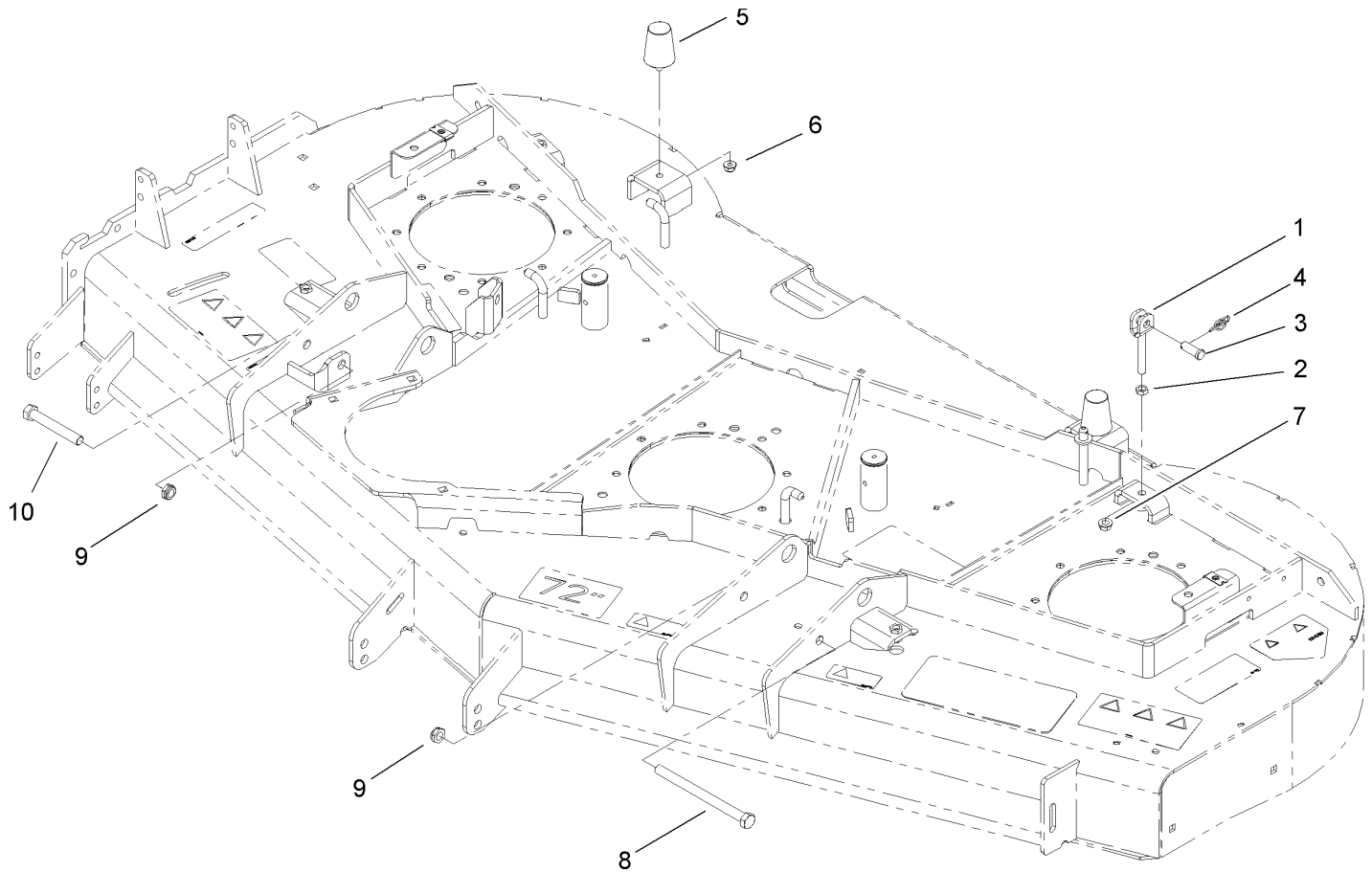
## Rubber Deflector Assembly No. 108-2792

| Ref | Part No.    | Qty. | Description        |  |  |  |  |
|-----|-------------|------|--------------------|--|--|--|--|
| 1   | 3231-4      | 4    | Screw-CARR         |  |  |  |  |
| 2   | 106-3246-01 | 1    | Deflector          |  |  |  |  |
| 3   | 106-3248-03 | 1    | Strap-Discharge    |  |  |  |  |
| 4   | 108-5029    | 1    | Deflector-Rubber   |  |  |  |  |
| 5   | 108-4059-01 | 1    | Plate-Hinge, Rear  |  |  |  |  |
| 6   | 106-3253-01 | 1    | Plate-Hinge, Front |  |  |  |  |
| 7   | 3296-39     | 4    | Nut-Lock, NI       |  |  |  |  |



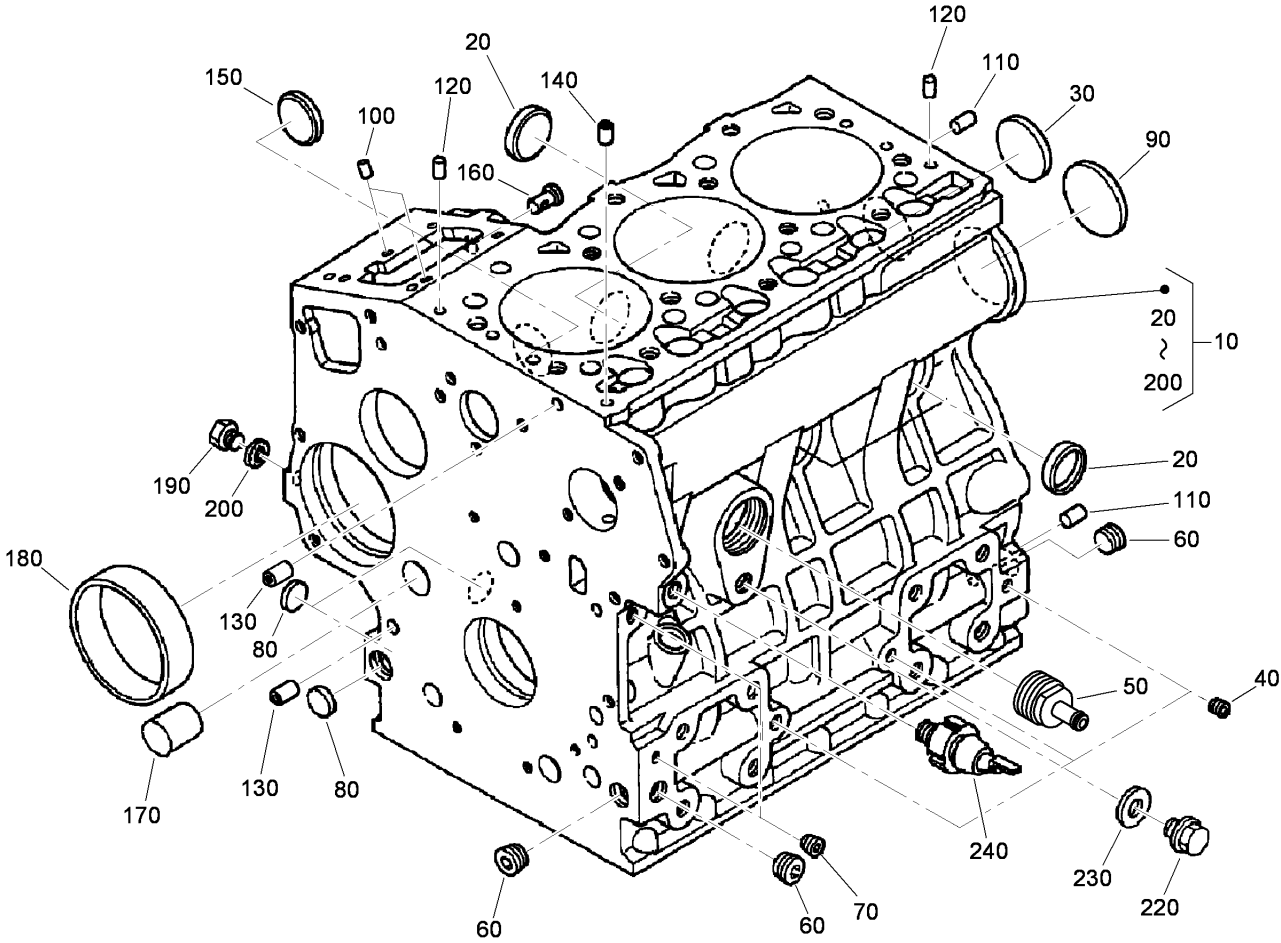
## Gearbox Assembly No. 110-6386-03

| Ref | Part No. | Qty. | Description           |  |  |  |  |
|-----|----------|------|-----------------------|--|--|--|--|
| 1   | 107-2932 | 1    | Cap-Oil               |  |  |  |  |
| 2   | 107-2933 | 2    | Plug                  |  |  |  |  |
| 3   | 107-2934 | 2    | Seal-Oil              |  |  |  |  |
| 4   | 107-2935 | 1    | Cap-Oil               |  |  |  |  |
| 5   | 110-8283 | 1    | Plug-Filler, Dipstick |  |  |  |  |



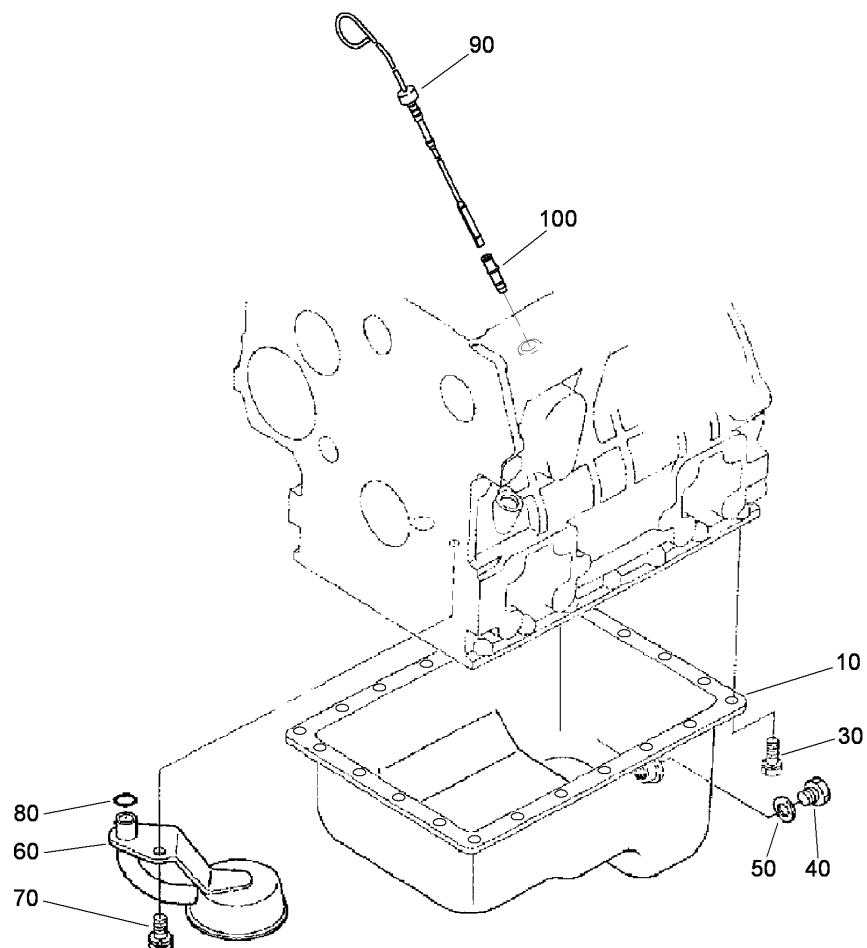
## Adjustment Link and Bumper Assembly

| Ref | Part No. | Qty. | Description       |  |  |  |  |
|-----|----------|------|-------------------|--|--|--|--|
| 1   | 112-1485 | 4    | Clevis-Adjustment |  |  |  |  |
| 2   | 3218-3   | 4    | Nut-Jam           |  |  |  |  |
| 3   | 700601   | 4    | Pin-Clevis        |  |  |  |  |
| 4   | 112-1491 | 4    | Pin-Rue Ring      |  |  |  |  |
| 5   | 110-5070 | 2    | Bumper-Neoprene   |  |  |  |  |
| 6   | 104-8300 | 2    | Nut-Flange, NI    |  |  |  |  |
| 7   | 3290-357 | 4    | Nut-HHF, Whiz     |  |  |  |  |
| 8   | 325-23   | 1    | Screw-HH          |  |  |  |  |
| 9   | 3296-45  | 2    | Nut-Lock, NI      |  |  |  |  |
| 10  | 325-14   | 1    | Screw-HH          |  |  |  |  |



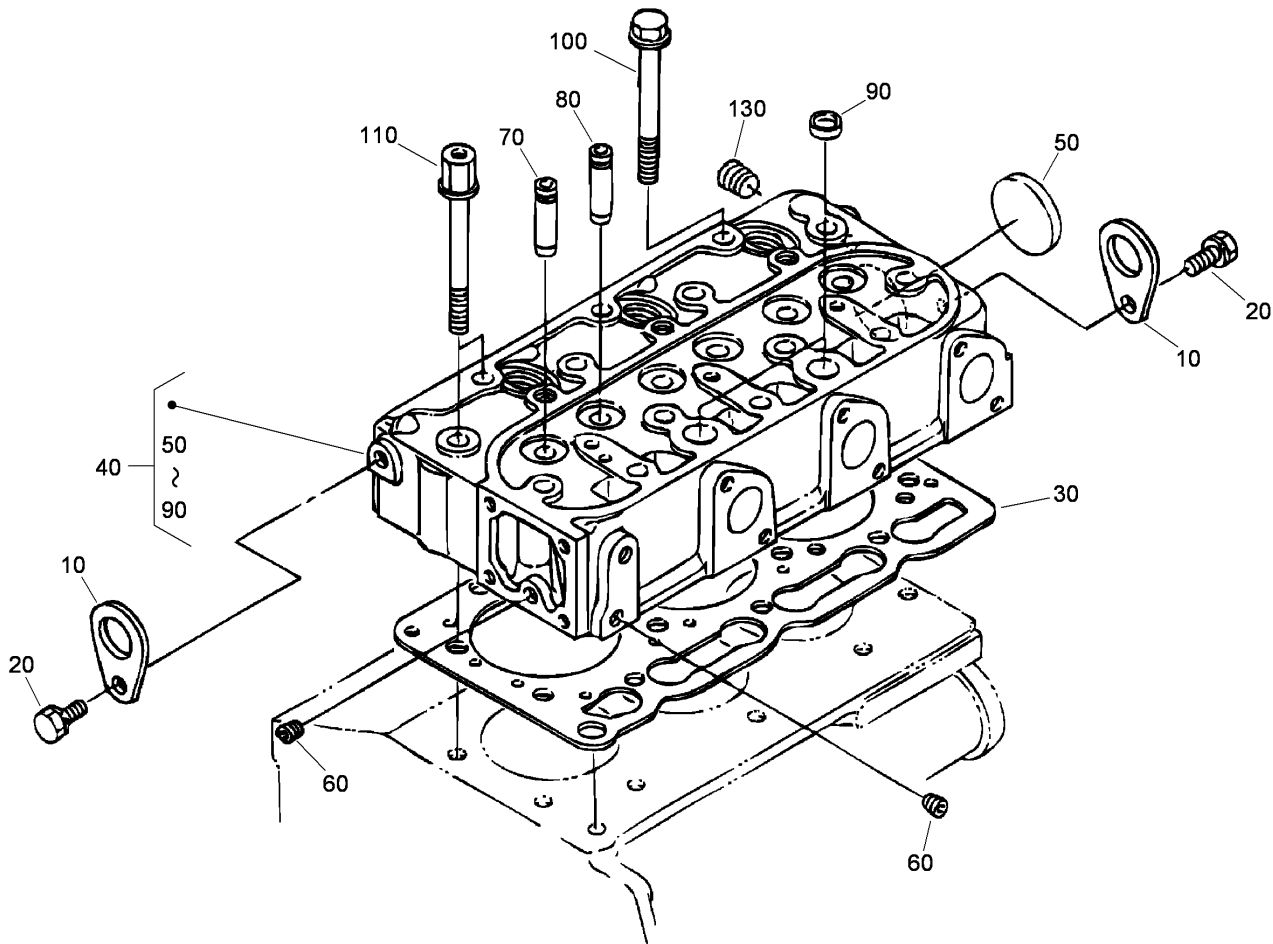
Crankcase Assembly

| Ref | Part No. | 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

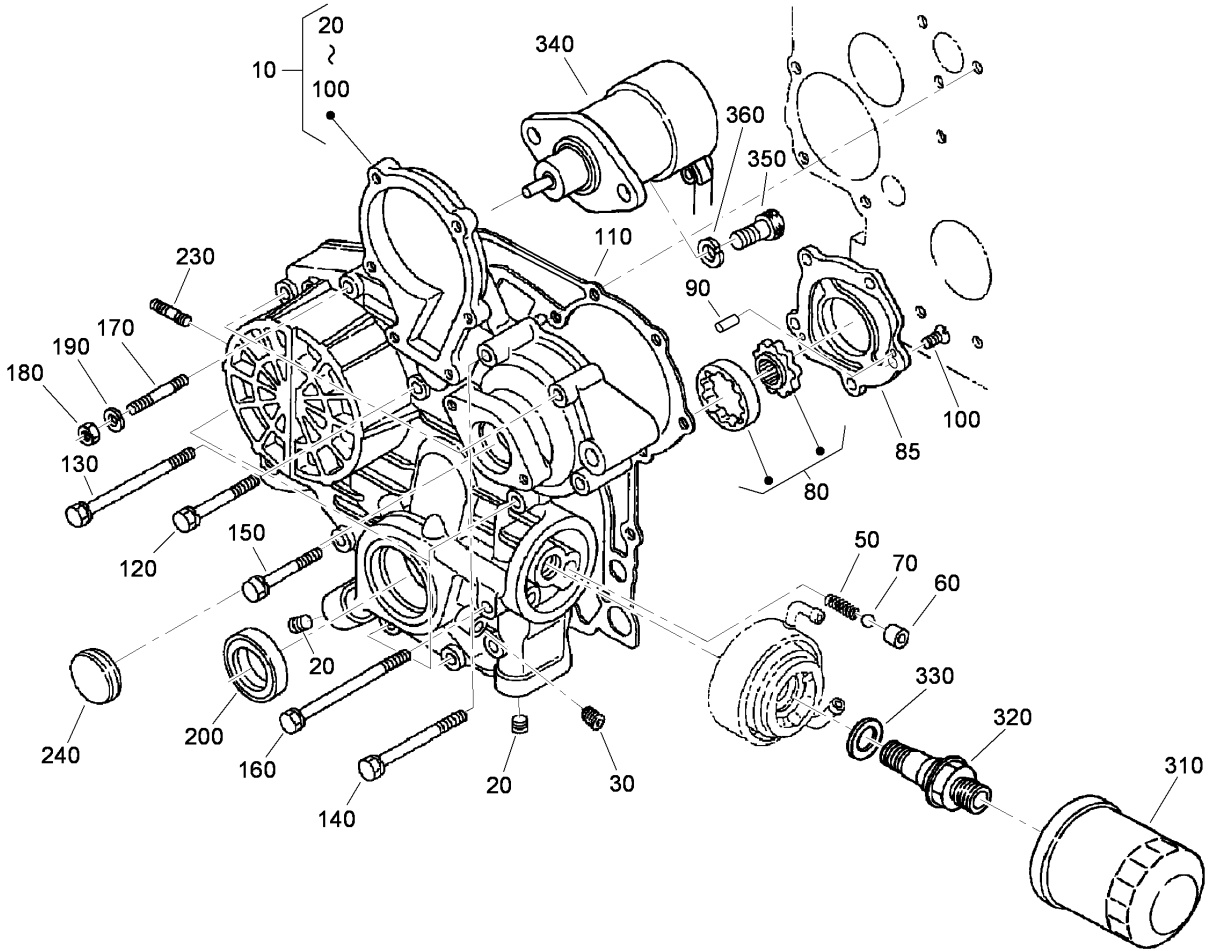
| Ref | Part No. | Qty. | Description |
|-----|----------|------|-------------|
| 10  | 112-0179 | 1    | Pan-Oil     |
| 30  | 98-9351  | 22   | Bolt        |
| 40  | 114-8151 | 1    | Plug-Drain  |
| 50  | 98-7524  | 1    | Gasket      |
| 60  | 112-7044 | 1    | Head-Filter |
| 70  | 98-7526  | 1    | Bolt        |
| 80  | 105-3776 | 1    | O-Ring      |
| 90  | 107-9076 | 1    | Gauge-Oil   |
| 100 | 105-4580 | 1    | Guide       |



Cylinder Head Assembly

| Ref | Part No. | 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                  |  |  |  |  |

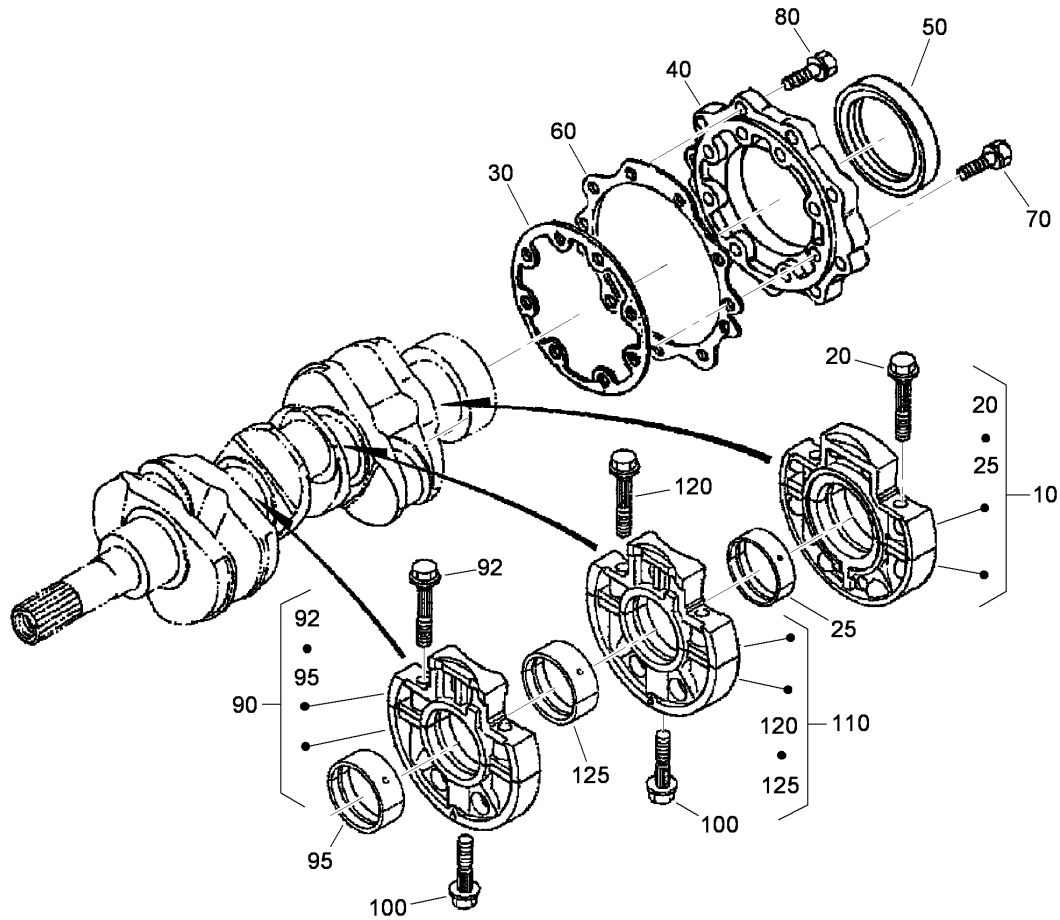




**Gear Case Assembly**

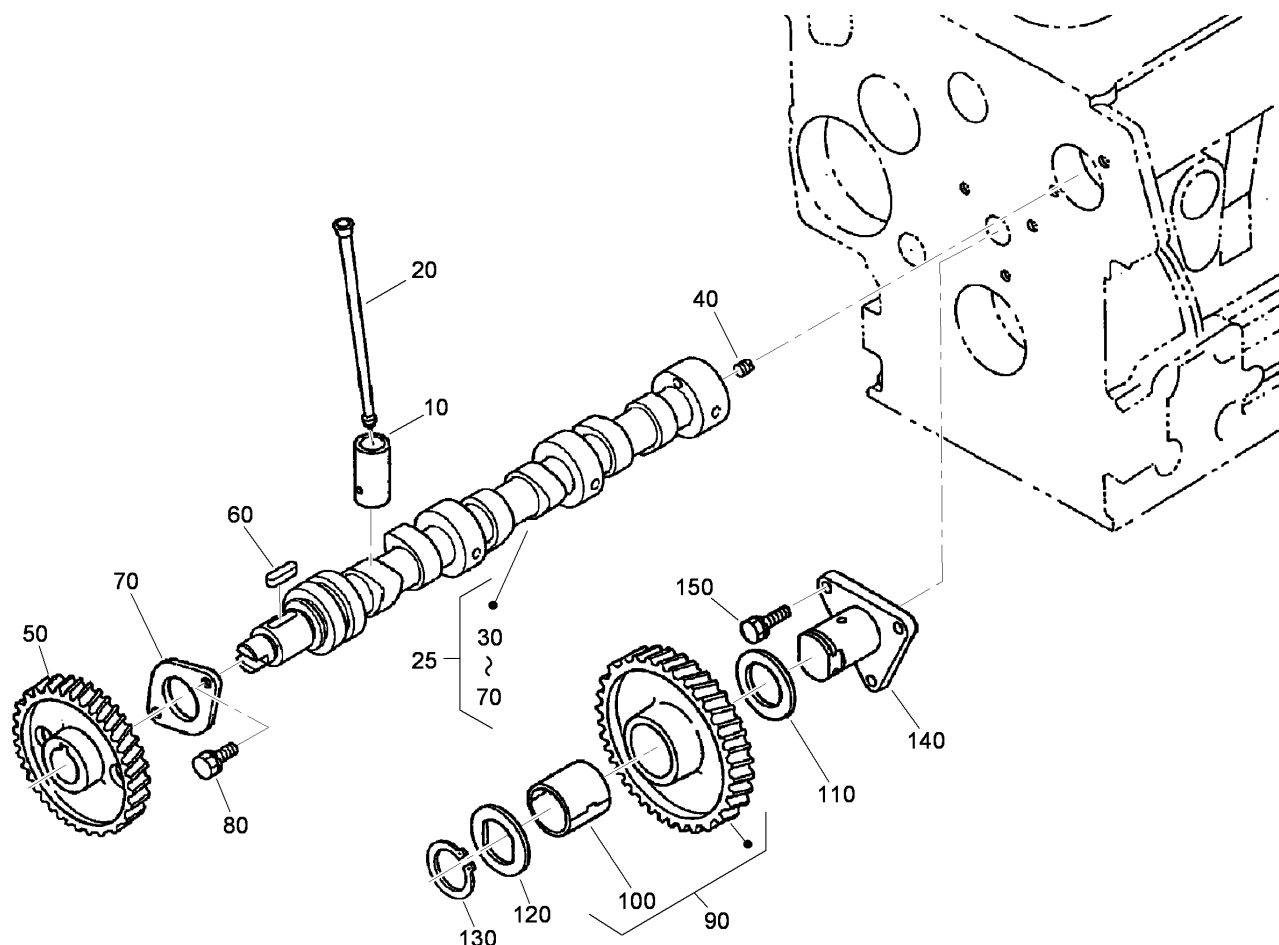
| Ref | Part No. | Qty. | Description        |
|-----|----------|------|--------------------|
| 10  | 115-4111 | 1    | Gear Case-Complete |
| 20  | 98-9598  | 2    | Plug               |
| 30  | 98-7487  | 1    | Plug               |
| 50  | 98-9544  | 1    | Spring             |
| 60  | 98-9543  | 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               |
| 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         |

| Ref | Part No. | Qty. | Description   |
|-----|----------|------|---------------|
| 330 | 98-9727  | 1    | Collar        |
| 340 | 104-5155 | 1    | Solenoid-Stop |
| 350 | 115-3039 | 2    | Bolt-HSH      |
| 360 | 98-7699  | 2    | Washer-Spring |



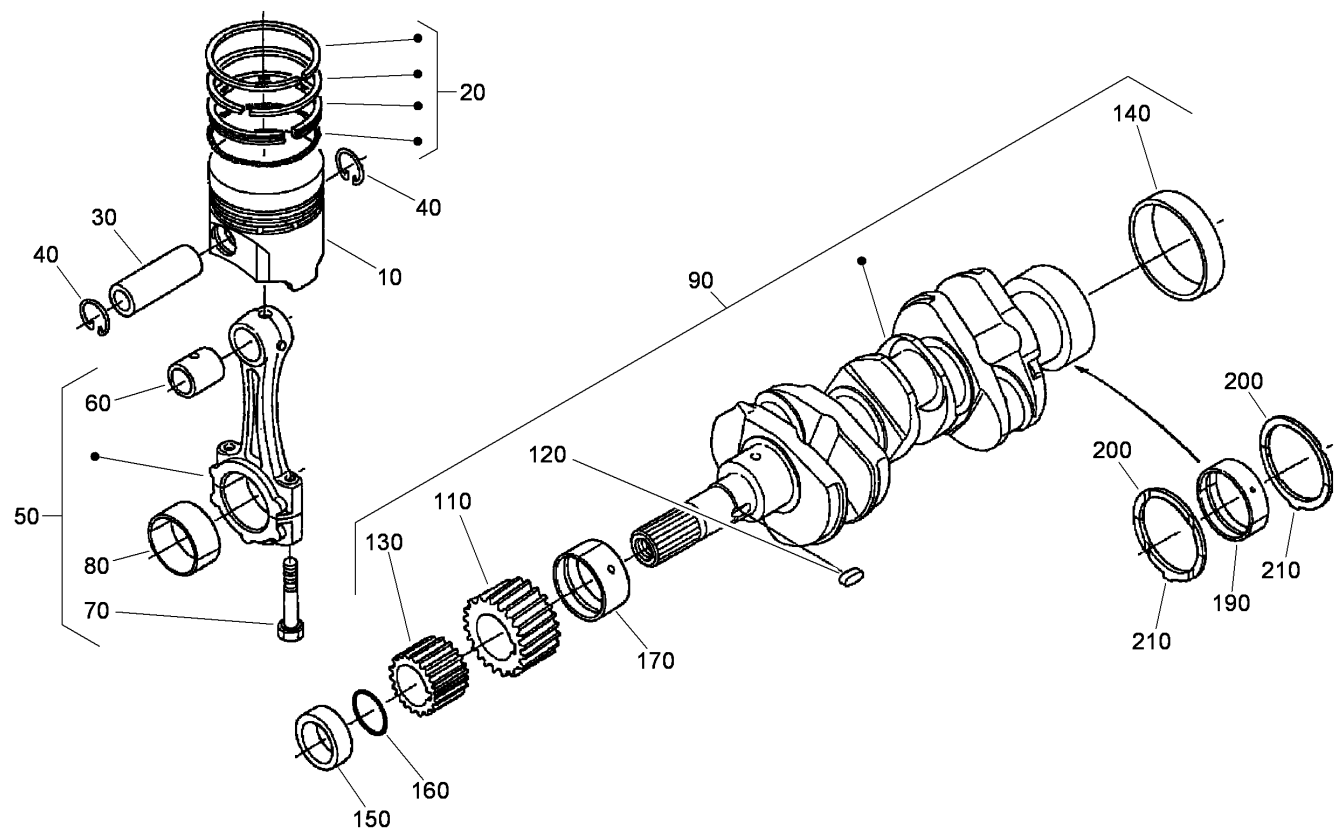
## Main Bearing Case Assembly

| Ref | Part No. | 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       |  |  |  |  |
| 25  | 112-7040 | 1    | Metal-Crankshaft       |  |  |  |  |
| 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

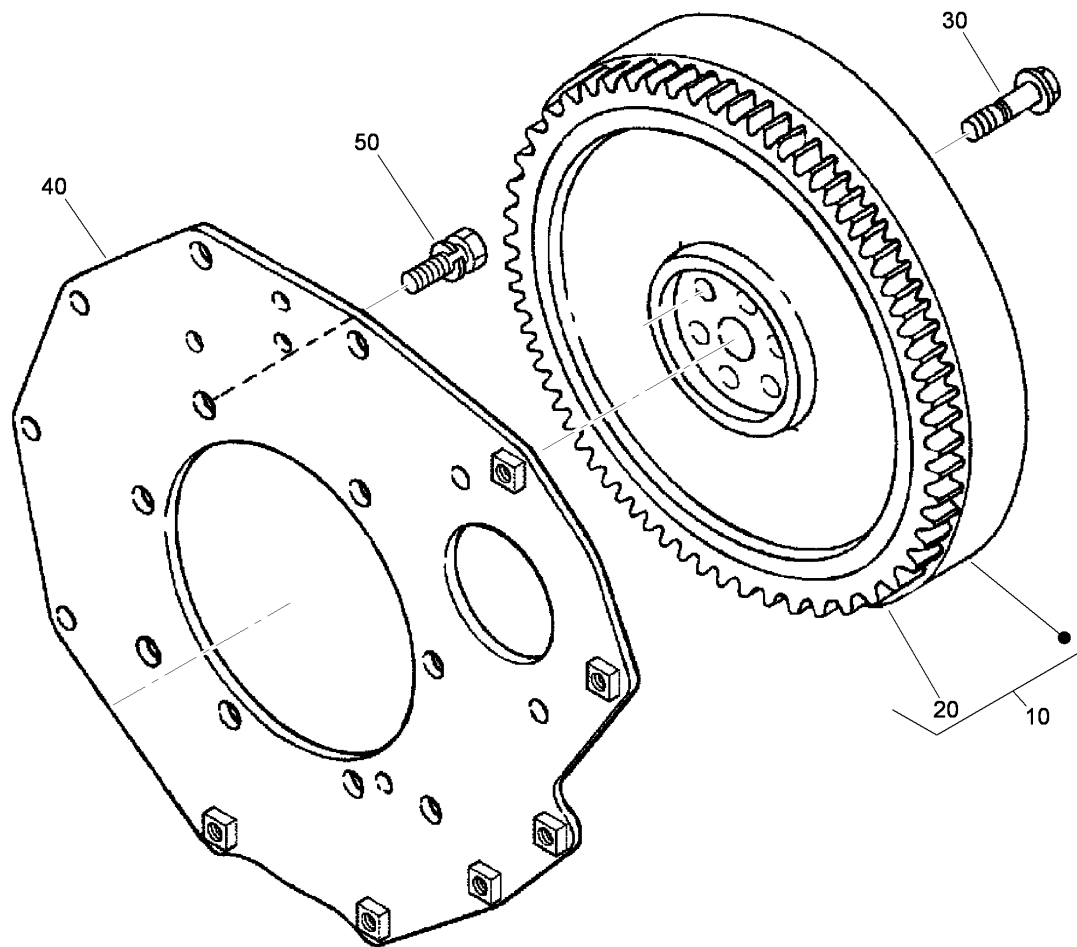
| Ref | Part No. | Qty. | Description        |  |  |  |  |
|-----|----------|------|--------------------|--|--|--|--|
| 10  | 112-0185 | 6    | Tappet             |  |  |  |  |
| 20  | 98-9509  | 6    | Rod-Push           |  |  |  |  |
| 25  | 112-7029 | 1    | Camshaft ASM       |  |  |  |  |
| 30  | 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

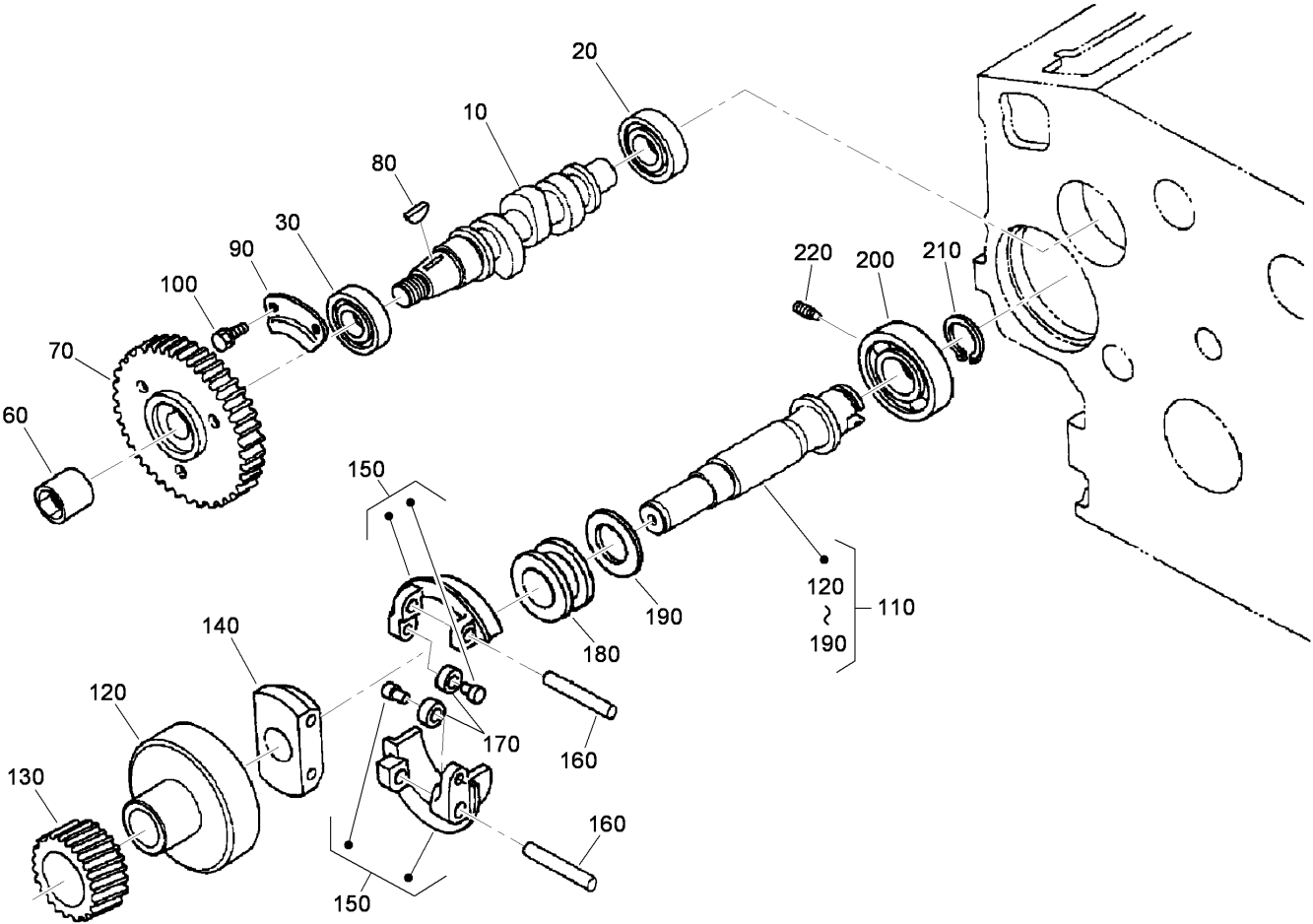
| Ref  | Part No. | Qty. | Description             |
|------|----------|------|-------------------------|
| 10   | 98-9550  | 3    | Piston (STD)            |
| 10   | 108-1417 | 3    | Piston, 0.5Mm           |
| 20   | 98-9551  | 3    | Piston Ring ASM (STD)   |
| 20   | 108-1404 | 3    | Piston Ring 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       |
| 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)      |

| Ref  | Part No. | Qty. | Description            |
|------|----------|------|------------------------|
| ●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       |
| 190  | 112-7040 | 1    | Metal-Crankshaft       |
| 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  | 98-9690  | 2    | Bearing-Thrust (0.4Mm) |



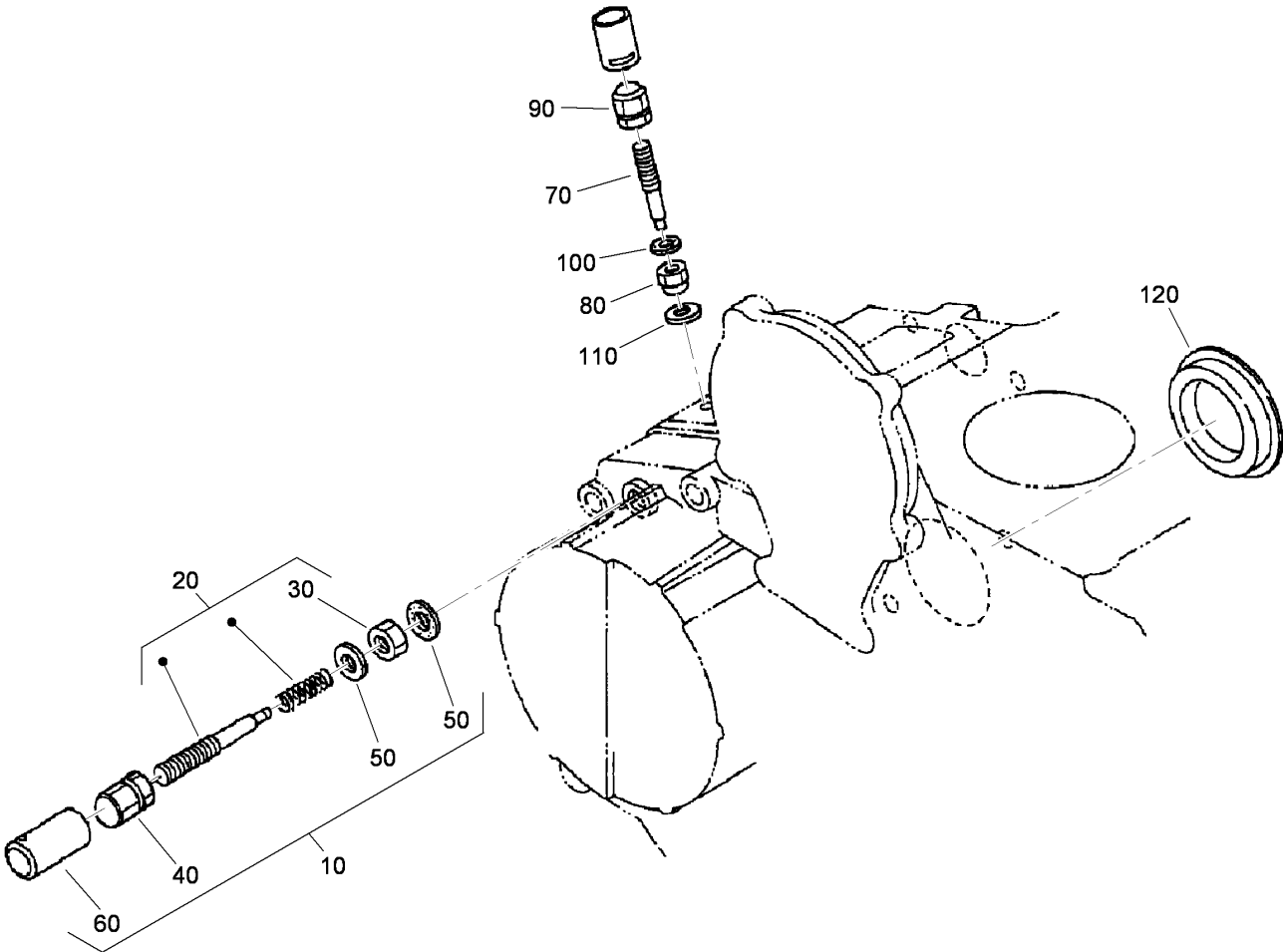
## Flywheel Assembly

| Ref | Part No. | 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            |  |  |  |  |



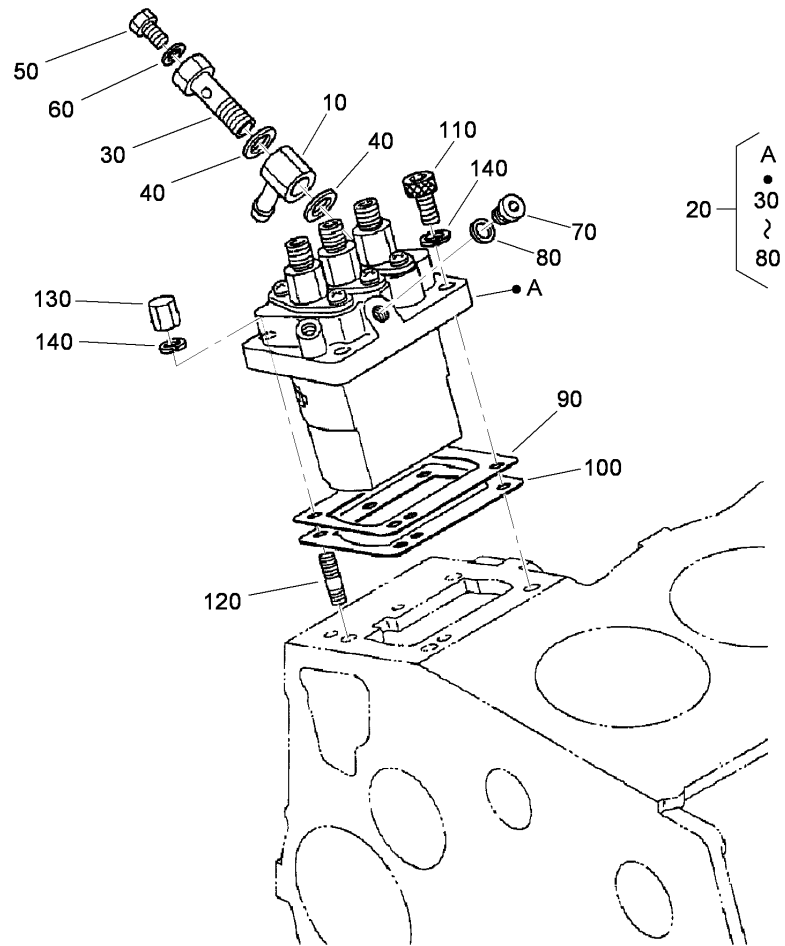
**Fuel Camshaft and Governor Shaft Assembly**

| Ref | Part No. | 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               |  |  |  |  |



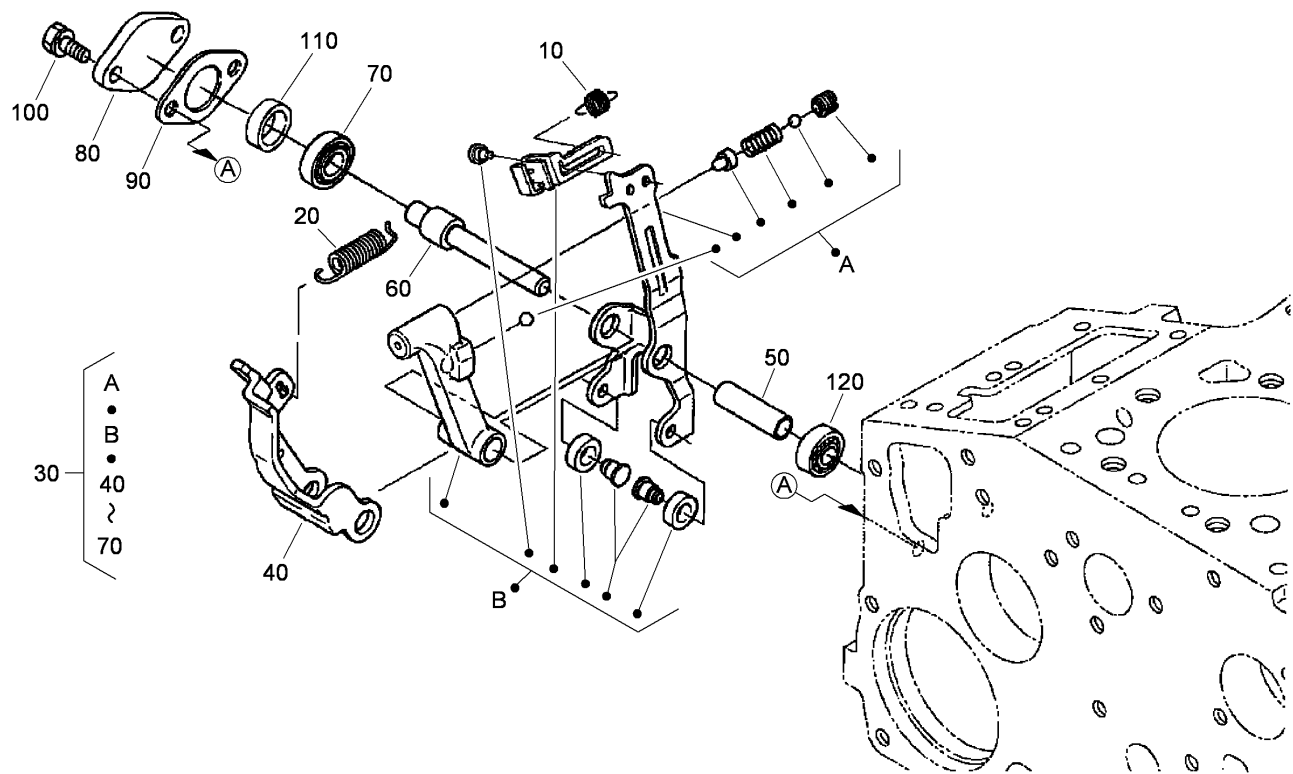
Idle Apparatus Assembly

| Ref | Part No. | 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         |  |  |  |  |



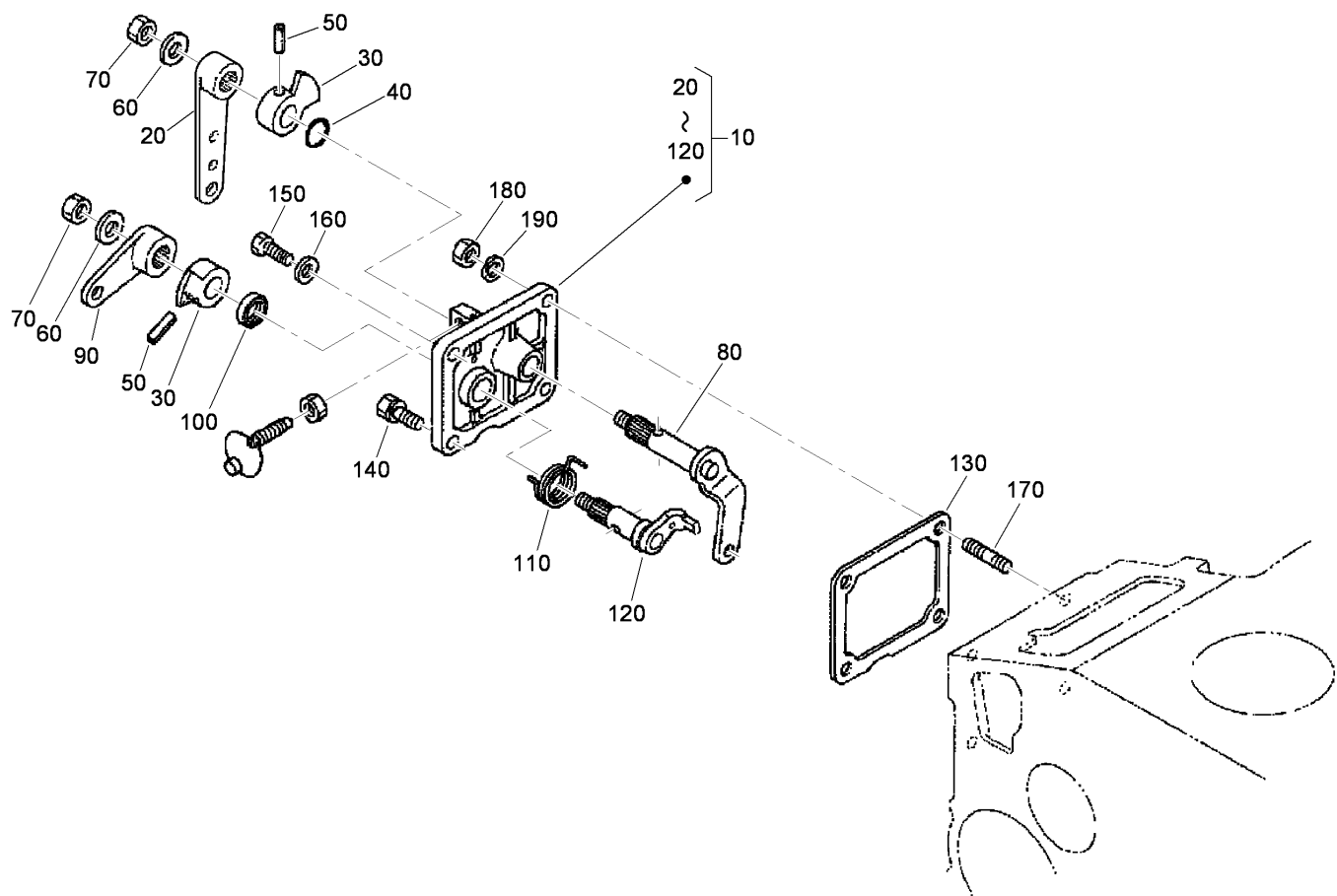
Injection Pump Assembly

| Ref | Part No. | Qty. | Description              |  |  |  |  |
|-----|----------|------|--------------------------|--|--|--|--|
| 10  | 98-9596  | 1    | Joint-Eye                |  |  |  |  |
| 20  | 98-9643  | 1    | Injection Pump ASM       |  |  |  |  |
| 30  | 98-9464  | 1    | Bolt-Joint               |  |  |  |  |
| 40  | 98-9445  | 2    | Gasket                   |  |  |  |  |
| 50  | 98-9430  | 1    | Screw                    |  |  |  |  |
| 60  | 98-9446  | 1    | Gasket                   |  |  |  |  |
| 70  | 98-9466  | 1    | Plug                     |  |  |  |  |
| 80  | 98-9451  | 1    | Gasket                   |  |  |  |  |
| 90  | 98-9456  | 1    | Shim-Injection (0.20Mm)  |  |  |  |  |
| 90  | 98-9457  | 1    | Shim-Injection (0.25Mm)  |  |  |  |  |
| 90  | 115-3045 | 1    | Shim-Injection (0.175Mm) |  |  |  |  |
| 100 | 98-9458  | 1    | Shim-Injection (0.30Mm)  |  |  |  |  |
| 100 | 115-3046 | 1    | Shim-Injection (0.35Mm)  |  |  |  |  |
| 110 | 98-9361  | 2    | Bolt-HSH                 |  |  |  |  |
| 120 | 98-9438  | 2    | Stud                     |  |  |  |  |
| 130 | 98-9440  | 2    | Nut-Cap                  |  |  |  |  |
| 140 | 98-7699  | 4    | Washer-Spring            |  |  |  |  |



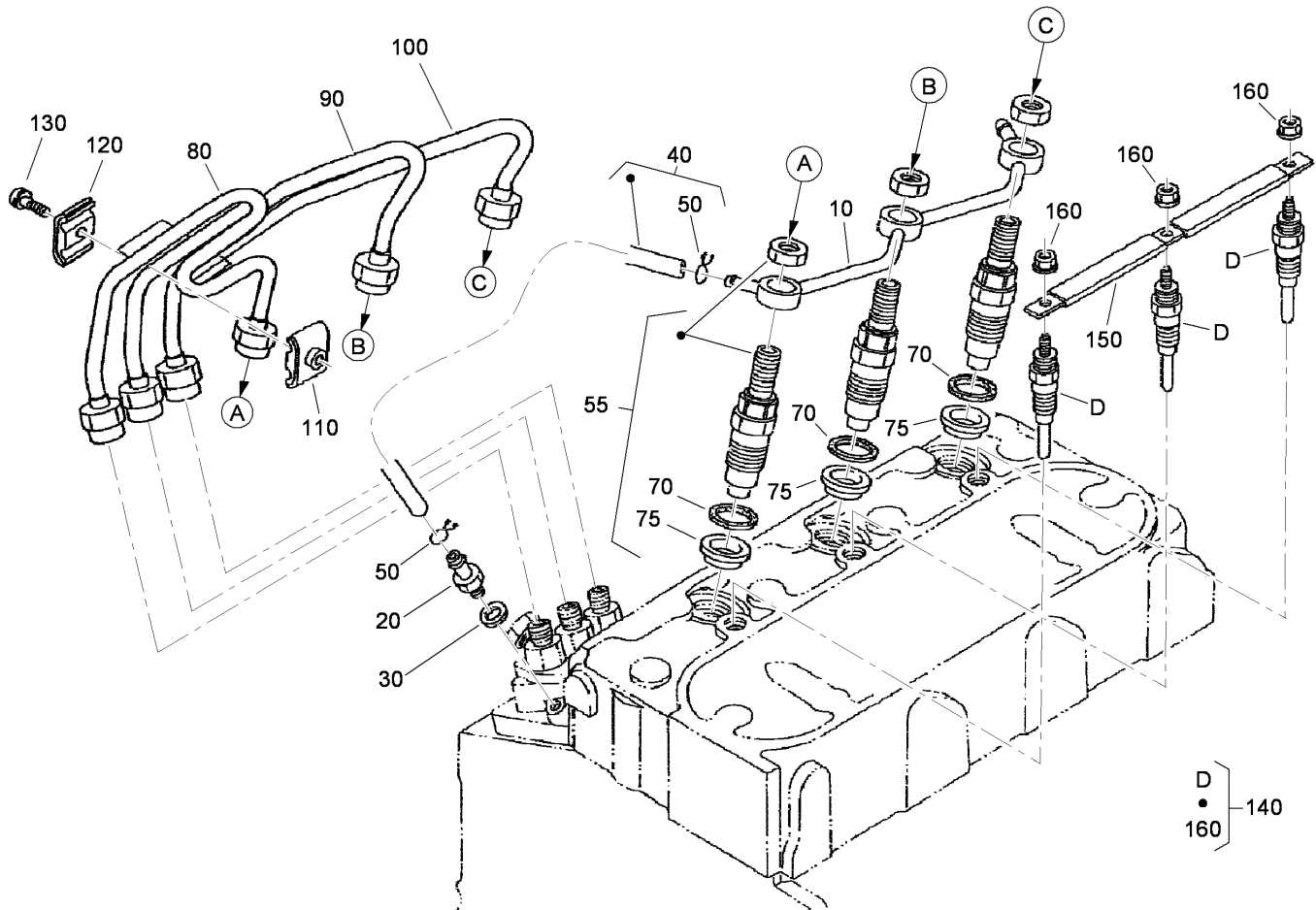
**Governor Assembly**

| Ref | Part No. | 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     |  |  |  |  |



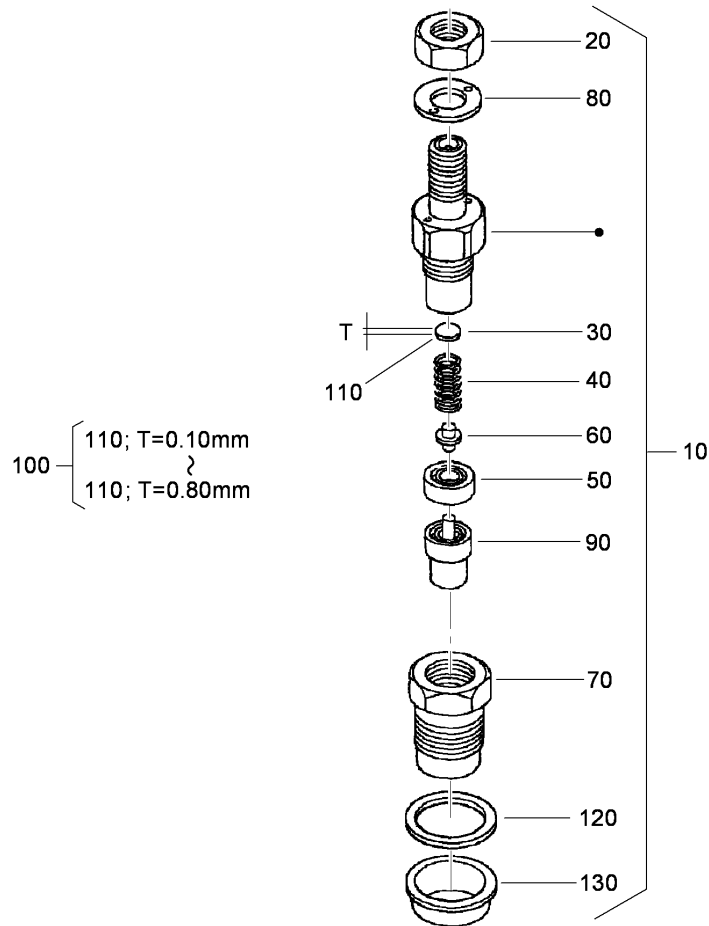
**Speed Control Plate Assembly**

| Ref | Part No. | 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        |  |  |  |  |



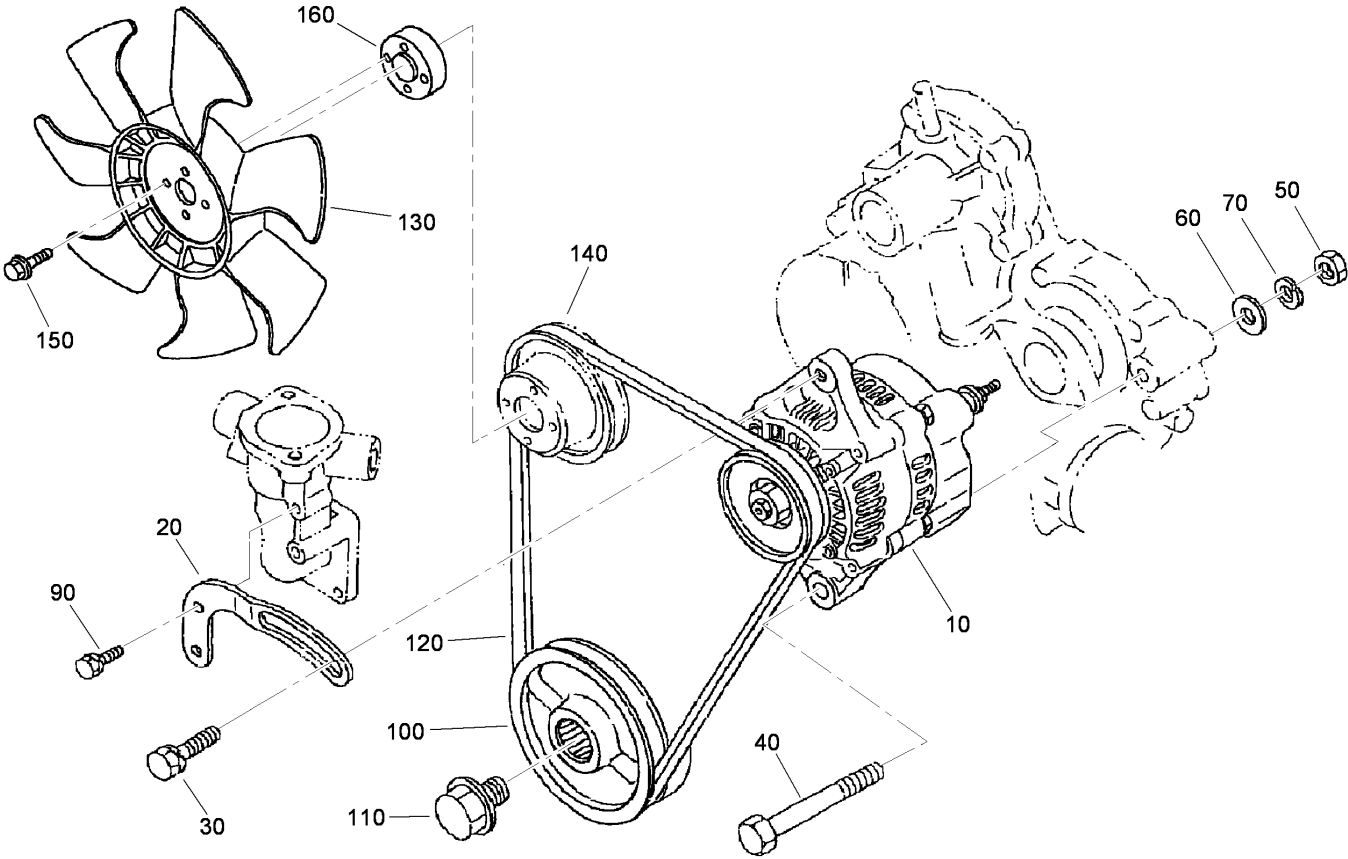
Nozzle Holder and Glow Plug Assembly

| Ref | Part No. | 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         |  |  |  |  |



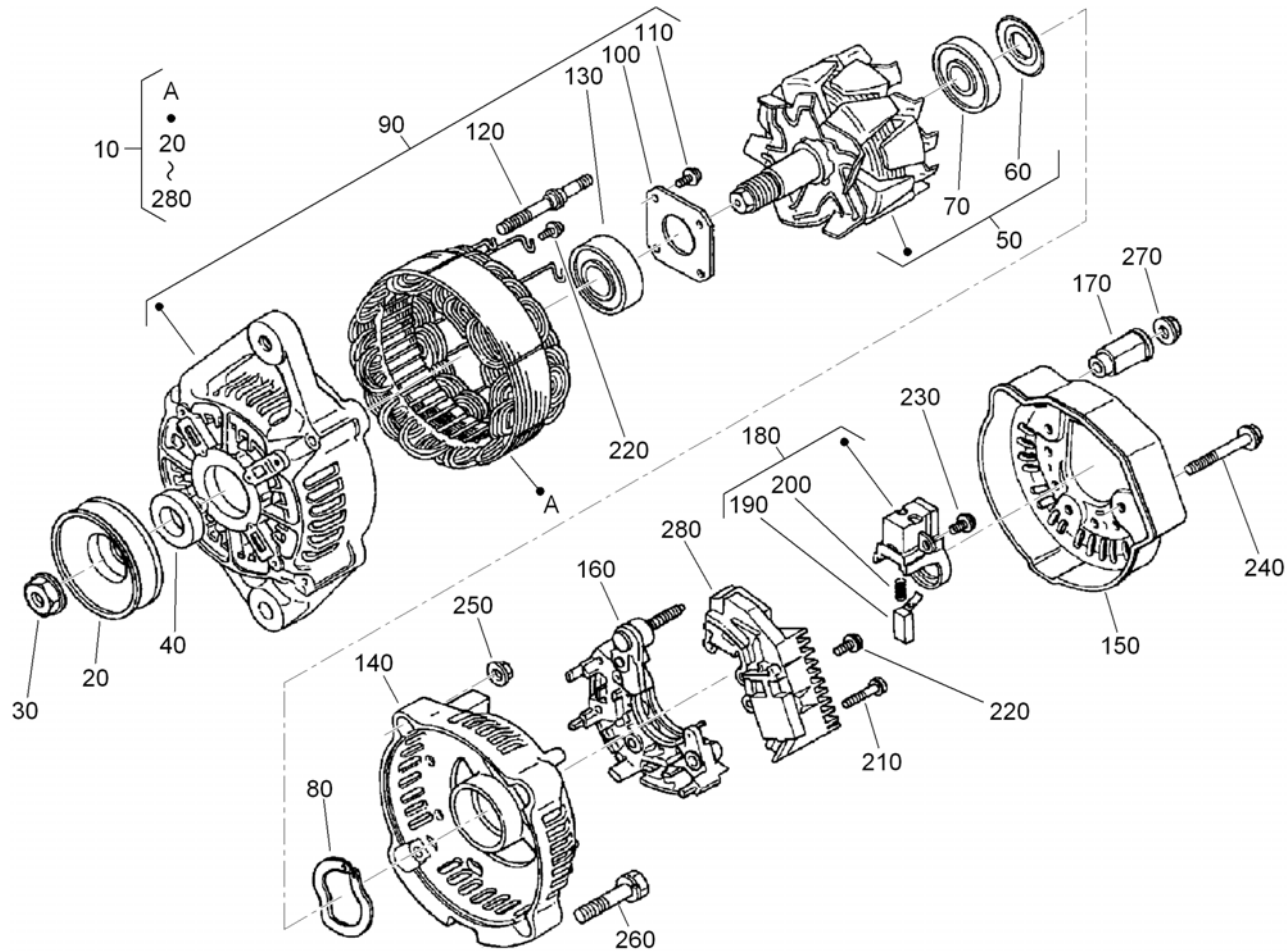
Nozzle Holder Assembly

| Ref | Part No. | Qty. | Description            |  |  |  |  |
|-----|----------|------|------------------------|--|--|--|--|
| 10  | 108-2866 | 3    | Nozzle Holder Kit      |  |  |  |  |
| 20  | 99-8301  | 3    | Nut                    |  |  |  |  |
| 30  | 99-8302  | 3    | Washer-Adjusting       |  |  |  |  |
| 40  | 99-8303  | 3    | Spring-Nozzle          |  |  |  |  |
| 50  | 99-8304  | 3    | Spacer-Distance        |  |  |  |  |
| 60  | 99-8305  | 3    | Rod-Push               |  |  |  |  |
| 70  | 99-8306  | 3    | Nut-Nozzle             |  |  |  |  |
| 80  | 99-8307  | 3    | Washer-Plain           |  |  |  |  |
| 90  | 107-7826 | 3    | Piece-Nozzle           |  |  |  |  |
| 100 | 99-8309  | 3    | Adjusting Washer ASM   |  |  |  |  |
| 110 | 99-8310  | 3    | Washer-Adjust (0.10Mm) |  |  |  |  |
| 110 | 99-8311  | 3    | Washer-Adjust (0.20Mm) |  |  |  |  |
| 110 | 99-8312  | 3    | Washer-Adjust (0.30Mm) |  |  |  |  |
| 110 | 99-8313  | 3    | Washer-Adjust (0.40Mm) |  |  |  |  |
| 110 | 99-8314  | 3    | Washer-Adjust (0.50Mm) |  |  |  |  |
| 110 | 99-8315  | 3    | Washer-Adjust (0.52Mm) |  |  |  |  |
| 110 | 99-8316  | 3    | Washer-Adjust (0.54Mm) |  |  |  |  |
| 110 | 99-8317  | 3    | Washer-Adjust (0.56Mm) |  |  |  |  |
| 110 | 99-8318  | 3    | Washer-Adjust (0.58Mm) |  |  |  |  |
| 110 | 99-8319  | 3    | Washer-Adjust (0.80Mm) |  |  |  |  |
| 120 | 98-7676  | 3    | Gasket                 |  |  |  |  |
| 130 | 98-7677  | 3    | Seal-Heat              |  |  |  |  |



Alternator and Pulley Assembly

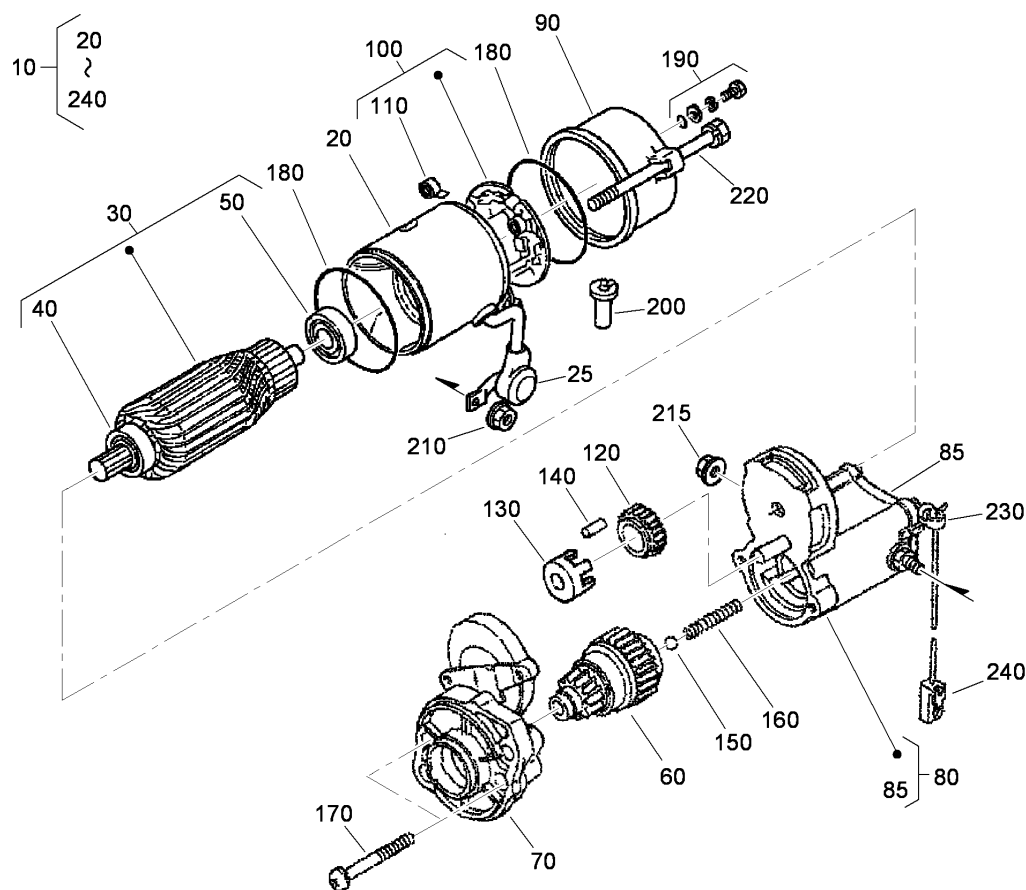
| Ref | Part No.  | Qty. | Description       |  |  |  |  |
|-----|-----------|------|-------------------|--|--|--|--|
| 10  | 98-9474   | 1    | Alternator ASM    |  |  |  |  |
| 20  | 112-7047  | 1    | Stay-Dynamo       |  |  |  |  |
| 30  | 108-7088  | 1    | Bolt              |  |  |  |  |
| 40  | 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

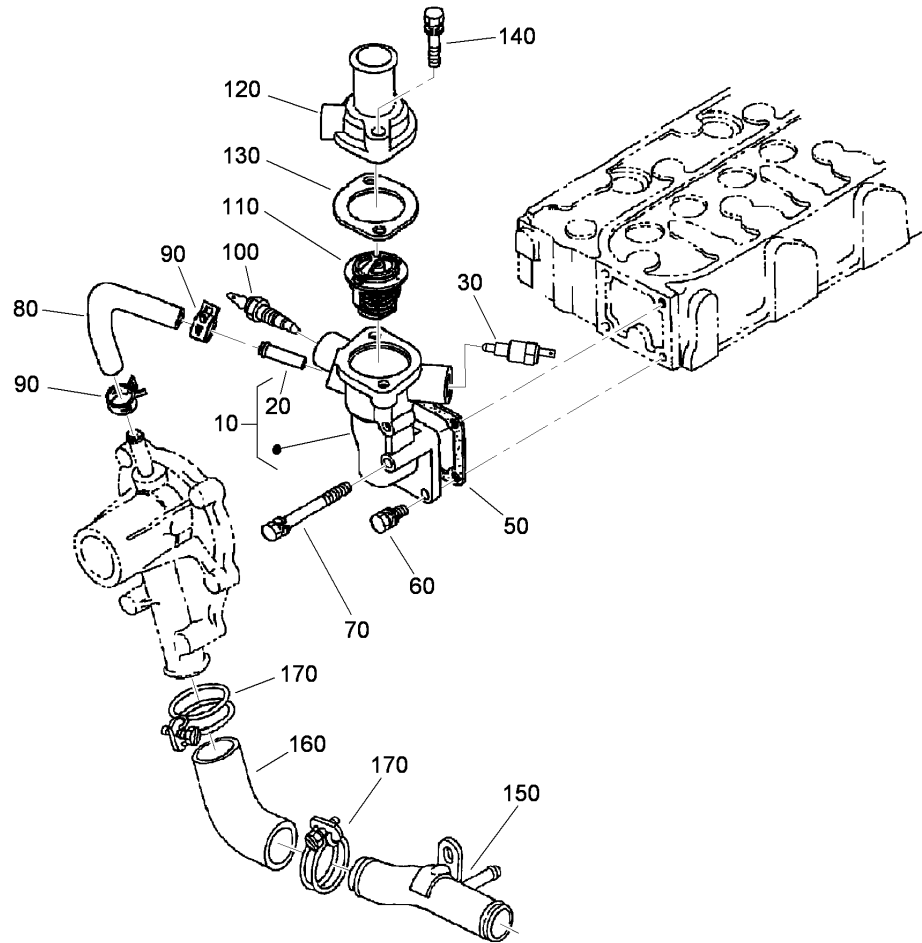
| Ref | Part No. | Qty. | Description         |
|-----|----------|------|---------------------|
| 10  | 98-9474  | 1    | Alternator ASM      |
| 20  | 98-9453  | 1    | Pulley-Dynamo       |
| 30  | 98-7708  | 1    | Nut                 |
| 40  | 98-7709  | 1    | Collar              |
| 50  | 107-0136 | 1    | Rotor               |
| 60  | 98-7711  | 1    | Cover-Bearing       |
| 70  | 107-0138 | 1    | Bearing-Ball        |
| 80  | 98-7713  | 1    | Washer-Thrust       |
| 90  | 107-0139 | 1    | Drive End Frame ASM |
| 100 | 98-7715  | 1    | Plate-Retainer      |
| 110 | 98-7716  | 4    | Screw-Head, Round   |
| 120 | 98-7717  | 2    | Bolt-Through        |
| 130 | 107-0137 | 1    | Bearing-Ball        |
| 140 | 107-9087 | 1    | Frame-End           |
| 150 | 107-0140 | 1    | Cover-End           |
| 160 | 98-7721  | 1    | Rectifier ASM       |
| 170 | 98-7722  | 1    | Bushing-Insulation  |
| 180 | 107-0141 | 1    | Holder-Brush        |
| 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                |

| Ref | Part No. | Qty. | Description   |
|-----|----------|------|---------------|
| 250 | 98-7730  | 2    | Nut           |
| 260 | 98-7731  | 2    | Bolt          |
| 270 | 98-7732  | 1    | Nut           |
| 280 | 110-3799 | 1    | Regulator ASM |



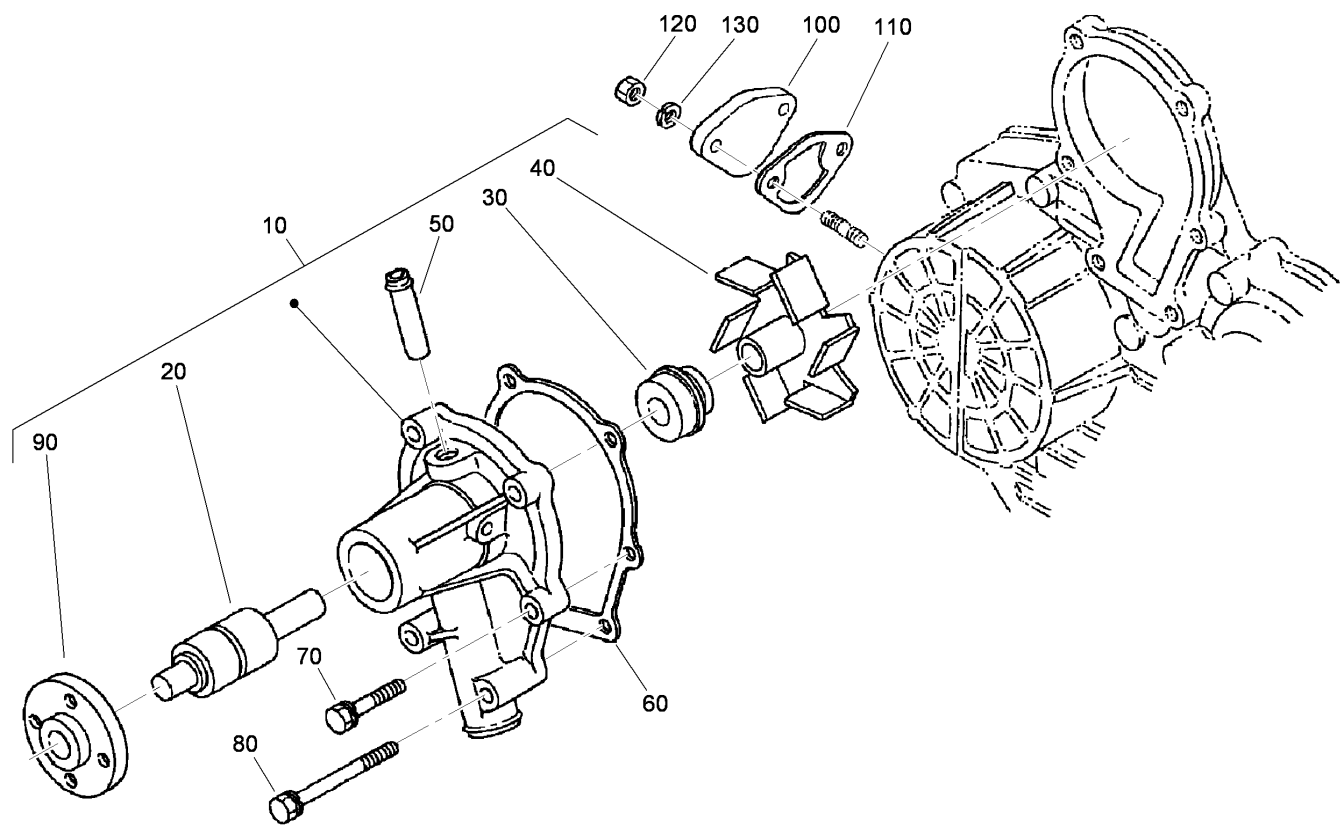
Starter (Component Part) Assembly No. 98-9705

| Ref | Part No. | Qty. | Description          | Ref | Part No. | Qty. | Description         |
|-----|----------|------|----------------------|-----|----------|------|---------------------|
| 10  | 98-9705  | 1    | Starter ASM          | 220 | 100-9240 | 2    | Bolt                |
| 20  | 104-8608 | 1    | Yoke ASM             | 230 | 98-9712  | 1    | Band-Cover          |
| 25  | 99-8375  | 1    | Cover                | 240 | 98-9711  | 1    | Cord-Solenoid, Stop |
| 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                 |     |          |      |                     |
| 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              |     |          |      |                     |



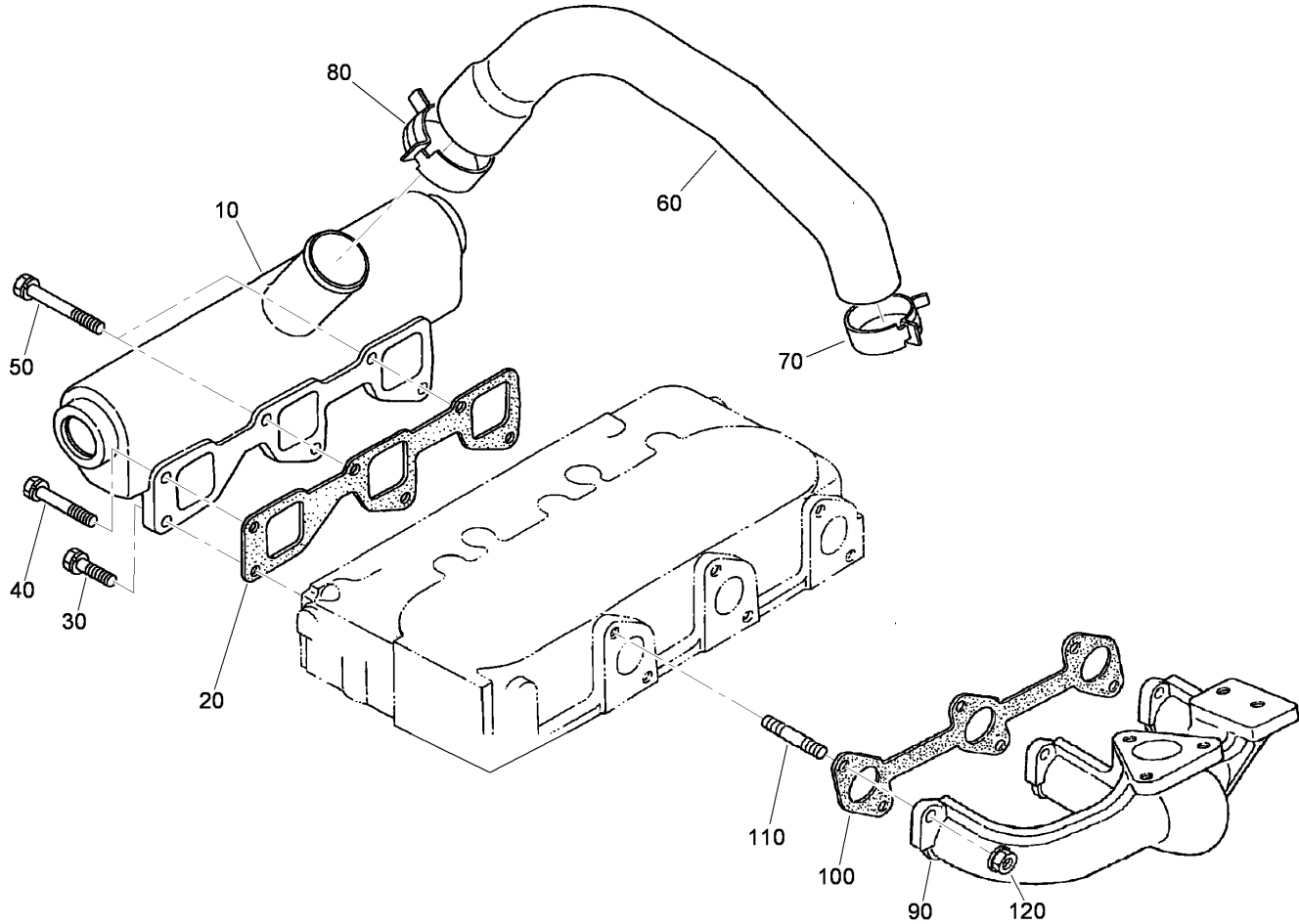
Water Flange and Thermostat Assembly

| Ref | Part No. | 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                |  |  |  |  |



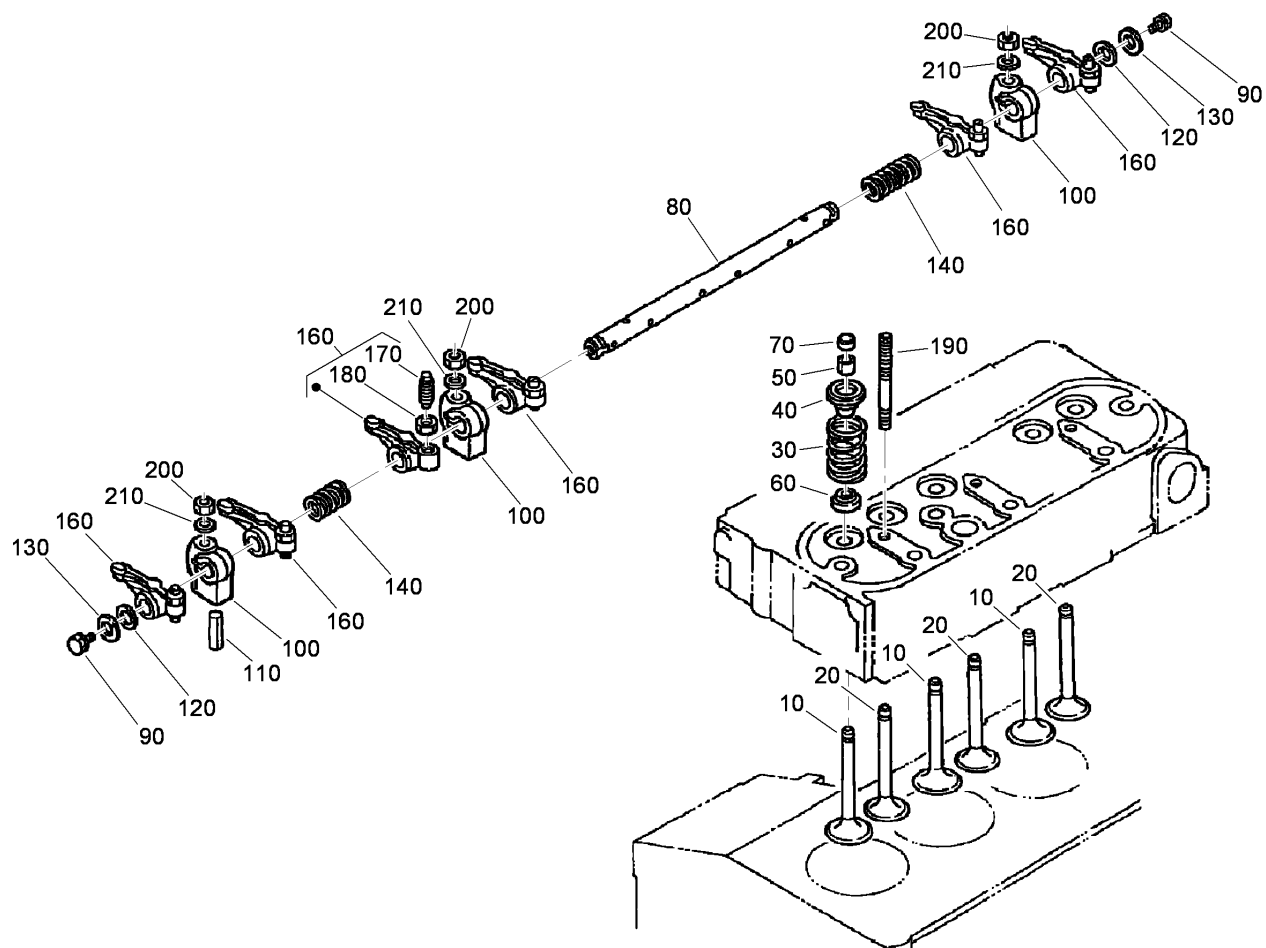
# Water Pump Assembly

| Ref | Part No. | Qty. | Description          |  |  |  |  |
|-----|----------|------|----------------------|--|--|--|--|
| 10  | 107-9089 | 1    | Water Pump ASM       |  |  |  |  |
| 20  | 99-3517  | 1    | Bearing-Pump, Water  |  |  |  |  |
| 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**

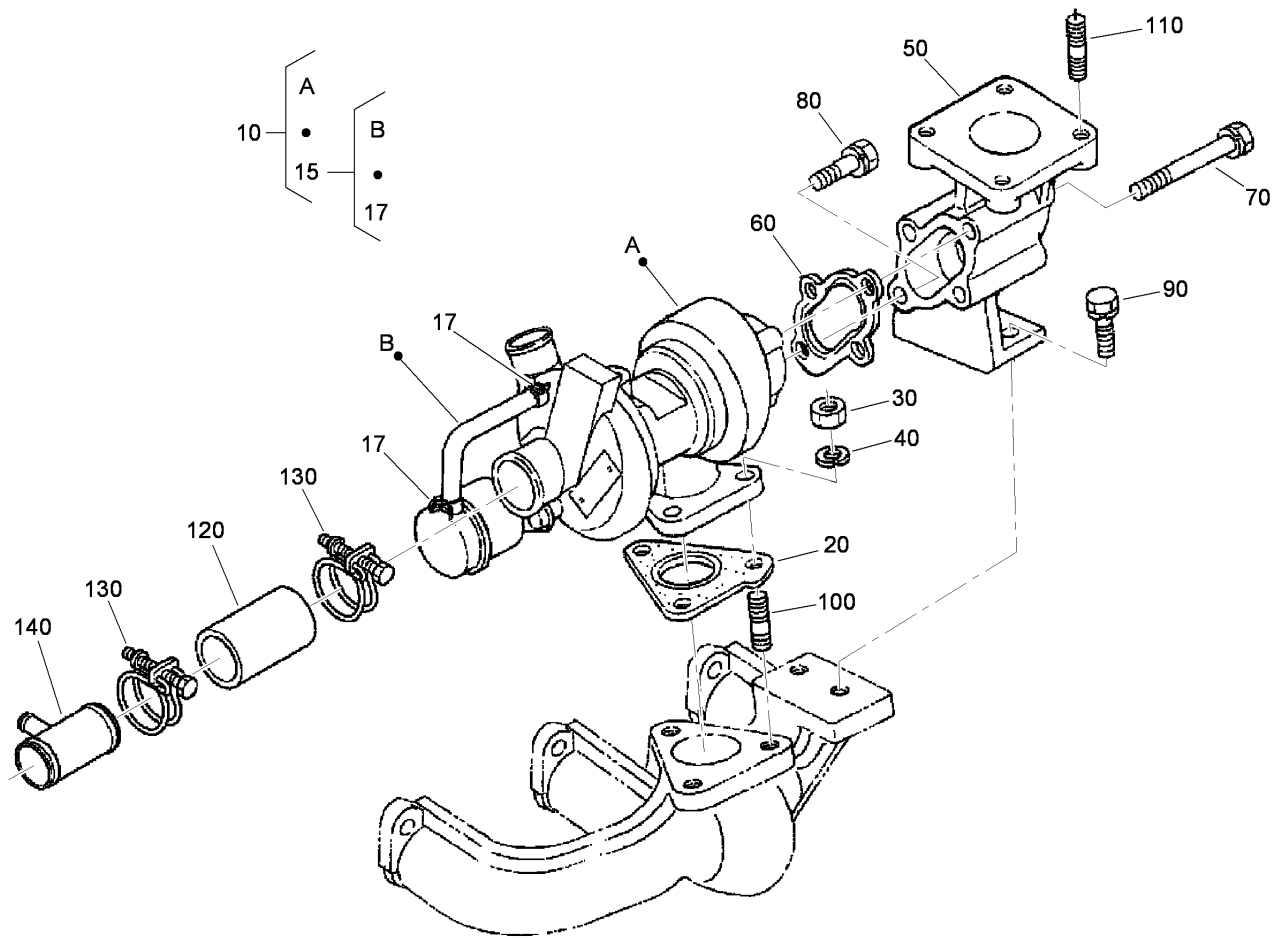
| Ref | Part No. | Qty. | Description              |  |  |  |  |
|-----|----------|------|--------------------------|--|--|--|--|
| 10  | 99-8321  | 1    | Manifold-Inlet           |  |  |  |  |
| 20  | 99-8329  | 1    | Gasket-Manifold, Intake  |  |  |  |  |
| 30  | 98-7568  | 3    | Bolt                     |  |  |  |  |
| 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

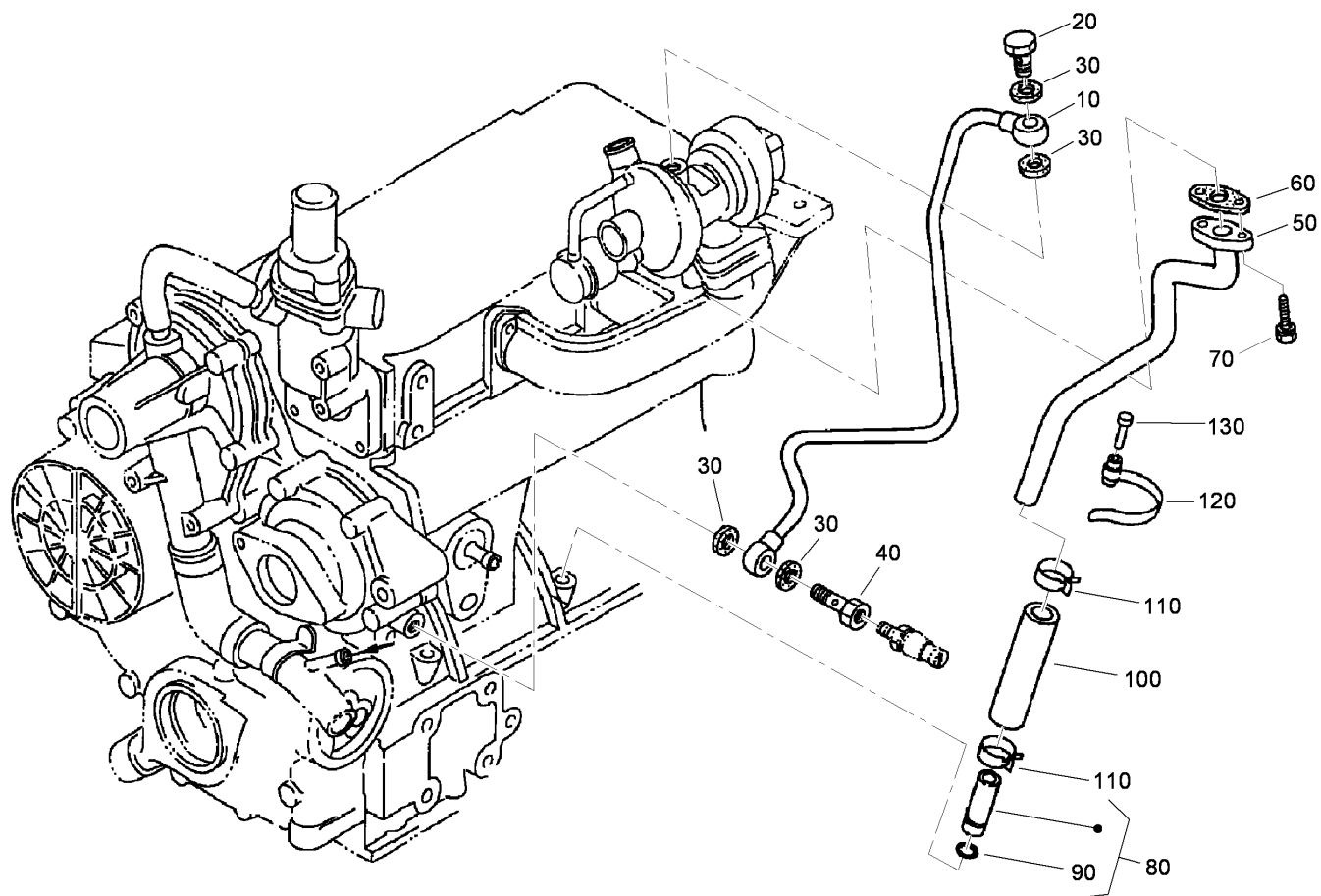
| Ref | Part No. | Qty. | Description              |
|-----|----------|------|--------------------------|
| 10  | 112-7018 | 3    | Valve-Inlet              |
| 20  | 112-7019 | 3    | Valve-Exhaust            |
| 30  | 98-9626  | 6    | Spring-Valve             |
| 40  | 107-9092 | 6    | Retainer-Spring          |
| 50  | 98-9390  | 6    | Collet-Set, Valve Spring |
| 60  | 99-8385  | 6    | Seat-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, R-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              |

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**Turbo Charger Assembly**

| Ref | Part No. | 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  | 115-4100 | 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 |  |  |  |  |

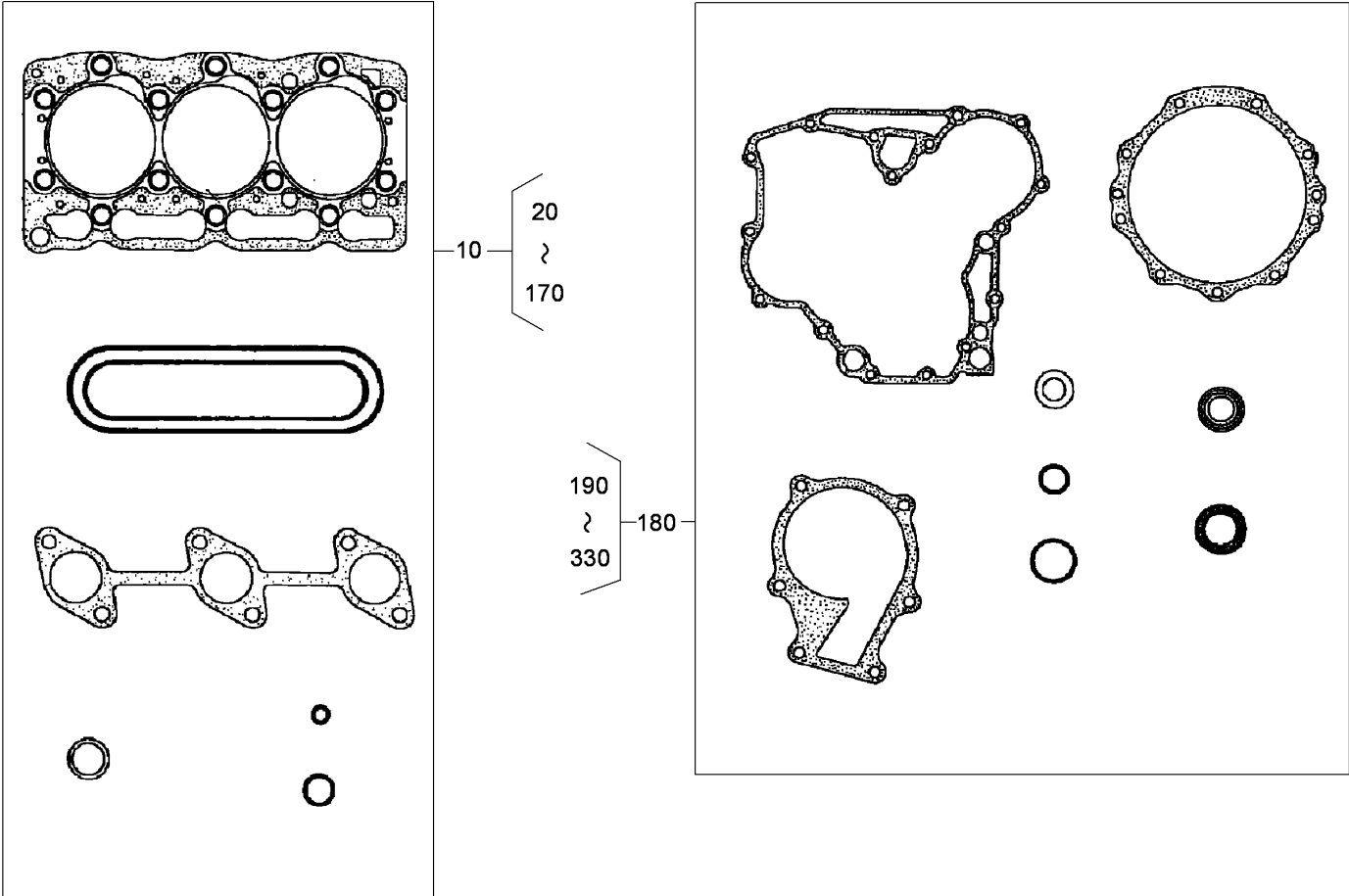


## Turbo Charger Oil Pipe Assembly

| Ref | Part No. | 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        |

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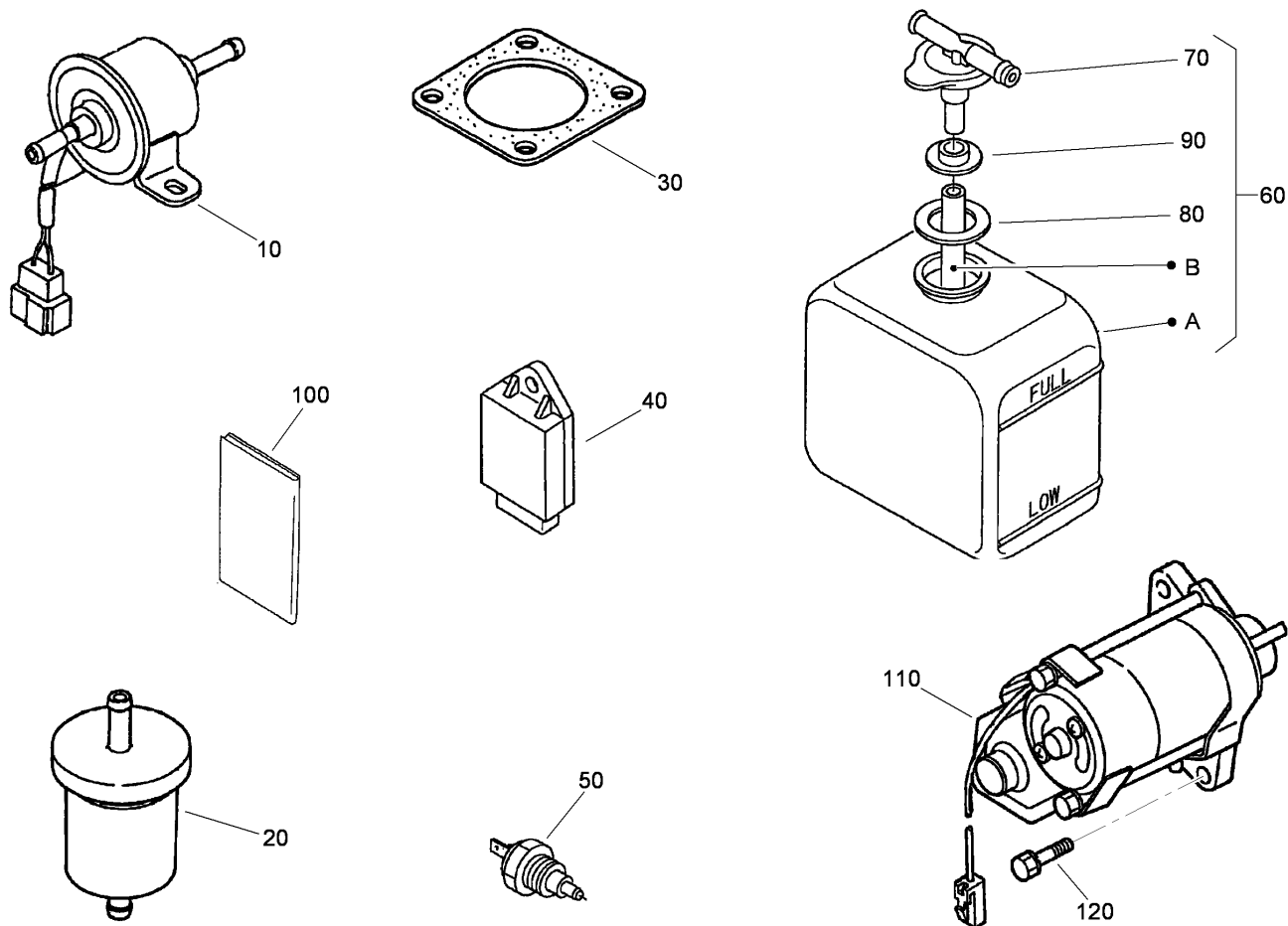




Gasket Kit

| Ref  | Part No. | Qty. | Description                |
|------|----------|------|----------------------------|
| 10   | 108-1415 | 1    | Upper Gasket Kit           |
| ❶20  | 108-6573 | 1    | Gasket-Head, Cylinder      |
| ❶40  | 99-8329  | 1    | Gasket-Manifold, Intake    |
| ❶50  | 105-3767 | 1    | Gasket                     |
| ❶60  | 105-3768 | 1    | Gasket                     |
| ❶70  | 99-8327  | 1    | Gasket-Manifold, Exhaust   |
| ❶80  | 99-8385  | 6    | Seat-Stem, Valve           |
| ❶90  | 98-9615  | 1    | Gasket-Cover, Head         |
| ❶100 | 98-9454  | 3    | Gasket                     |
| ❶110 | 99-3446  | 1    | O-Ring                     |
| ❶120 | 99-8346  | 4    | Gasket                     |
| ❶130 | 108-4422 | 1    | Gasket                     |
| ❶140 | 98-9722  | 1    | O-Ring                     |
| ❶150 | 98-9638  | 1    | Gasket-Flange, Water       |
| ❶160 | 105-3748 | 1    | Gasket-Thermostat          |
| ❶170 | 99-8343  | 1    | Gasket-Muffler             |
| 180  | 112-7041 | 1    | Lower Gasket Kit           |
| ❶190 | 98-9632  | 1    | Gasket-Pump, Water         |
| ❶200 | 98-9633  | 1    | Gasket-Case, Gear          |
| ❶210 | 105-3781 | 2    | O-Ring                     |
| ❶220 | 105-3777 | 2    | O-Ring                     |
| ❶230 | 98-9634  | 1    | Gasket-Case, Bearing       |
| ❶240 | 98-9635  | 1    | Gasket-Cover, Bearing Case |
| ❶250 | 105-3783 | 1    | O-Ring                     |

| Ref  | Part No. | Qty. | Description            |
|------|----------|------|------------------------|
| ❶260 | 105-3776 | 1    | O-Ring                 |
| ❶270 | 98-9729  | 1    | O-Ring                 |
| ❶280 | 98-9636  | 1    | Gasket-Pump, Fuel      |
| ❶290 | 98-9682  | 1    | Gasket                 |
| ❶300 | 105-3788 | 1    | O-Ring                 |
| ❶310 | 98-7601  | 1    | Seal-Oil               |
| ❶320 | 98-9637  | 1    | Gasket                 |
| ❶330 | 98-9683  | 1    | Gasket-Cover, Solenoid |



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

| Ref | Part No. | Qty. | Description         |  |  |  |  |
|-----|----------|------|---------------------|--|--|--|--|
| 10  | 107-0122 | 1    | Pump-Fuel, Electric |  |  |  |  |
| 20  | 98-7612  | 1    | Filter-Fuel         |  |  |  |  |
| 30  | 99-8343  | 1    | Gasket-Muffler      |  |  |  |  |
| 40  | 107-9097 | 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 30363 - Groundsmaster 7210 with 72in Side Discharge Mower

| Product Name                                                                                           | Model/Part |
|--------------------------------------------------------------------------------------------------------|------------|
| Tooth Rake                                                                                             | 08751      |
| Finish Grader                                                                                          | 08754      |
| Drag Mat Carrier System                                                                                | 08756      |
| Steel Drag Mat                                                                                         | 08757      |
| Coco Drag Mat                                                                                          | 08758      |
| Lug Tire (24 X 12 - 12)                                                                                | 103-6771   |
| Bahiagrass Baffle Kit                                                                                  | 105-7269   |
| Blade-Belt Kit, 62 Inch Guardian Only                                                                  | 105-7270   |
| Blade-Belt Kit, 72 Inch Guardian Only                                                                  | 105-7271   |
| Blade-Belt Kit, 72 Inch Side Discharge Only                                                            | 105-7272   |
| Striping Kit, 72 Inch Side Discharge Only                                                              | 105-7273   |
| Yellow Hydraulic Cap                                                                                   | 107-1576   |
| Cap-Diesel, Green                                                                                      | 107-2172   |
| Premium Engine Oil, 15w40 (Drum)                                                                       | 108-1181   |
| Premium Engine Oil, 15w40 (Pail)                                                                       | 108-1182   |
| Premium Transmission/Hydraulic Tractor Fluid (Drum)                                                    | 108-1183   |
| Premium Transmission/Hydraulic Tractor Fluid (Pail)                                                    | 108-1184   |
| Leaf Mulching Kit, 72 Inch Side Discharge Only                                                         | 108-5273   |
| Wheel And Tire ASM (Semi Pneumatic)                                                                    | 110-6406   |
| Spark Arrestor Kit                                                                                     | 112-1688   |
| Bio-Diesel Fuel Filter Kit                                                                             | 112-9140   |
| Slow Moving Vehicle Kit                                                                                | 114-4050   |
| 5 Inch Air Cleaner Safety Element                                                                      | 114-4057   |
| Weight Mount Bracket Kit                                                                               | 114-4090   |
| 42-pound Weight, For Kit 114-4090                                                                      | 114-4096   |
| MVP (Filter) Kit                                                                                       | 30037      |
| Guardian Recycler Completion Kit                                                                       | 30304      |
| 62 Inch Guardian Recycler Completion Kit                                                               | 30306      |
| Guardian Fine Recycler Completion Kit, Groundsmaster 7200 Series Traction Unit with 72 Inch Base Mower | 30346      |
| Recycler Kit, 72in Side Discharge Mower for Groundsmaster 3320, 3280-D and 7200                        | 30347      |
| Recycler Kit, 60in Side Discharge Mower for Groundsmaster 3320, 3280-D and 7200                        | 30348      |
| Polar Trac Kit                                                                                         | 30370      |
| Polar Trac Cab                                                                                         | 30371      |
| Road Light Kit                                                                                         | 30374      |
| Z-Stand Kit                                                                                            | 30375      |
| Rear Quick Attach System                                                                               | 30377      |
| V-Plow Mounting Kit                                                                                    | 30378      |
| Auxiliary Hydraulic Power Kit                                                                          | 30380      |
| Auxiliary Power Unit                                                                                   | 30382      |
| CE Kit                                                                                                 | 30392      |
| Debris Blower                                                                                          | 30393      |
| Rear Discharge Kit, Groundsmaster 7200 Series Traction Unit with 62 Inch Base Mower                    | 30463      |
| Rear Discharge Kit, Groundsmaster 7200 Series Traction Unit with 72 Inch Base Mower                    | 30466      |
| 48 Inch V-Plow                                                                                         | 30750      |

## NOTES

