



## Groundsmaster® 7210 Traction Unit

Model No. 30381 - 280000001 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

| Description                               | Page     | Description                                                             | Page     |
|-------------------------------------------|----------|-------------------------------------------------------------------------|----------|
| Frame Assembly                            | ..... 3  | Gear Case Assembly                                                      | ..... 28 |
| Radiator Assembly                         | ..... 4  | Main Bearing Case Assembly                                              | ..... 29 |
| Control Panel Assembly                    | ..... 5  | Camshaft and Idle Gear Shaft Assembly                                   | ..... 30 |
| Transmission Assembly                     | ..... 6  | Piston and Crankshaft Assembly                                          | ..... 31 |
| Hydraulic Gear Pump Assembly No. 112-9542 | ..... 7  | Flywheel Assembly                                                       | ..... 32 |
| Traction Control Assembly                 | ..... 8  | Fuel Camshaft and Governor Shaft Assembly                               | ..... 33 |
| Engine Component Assembly                 | ..... 9  | Idle Apparatus Assembly                                                 | ..... 34 |
| Air Cleaner Assembly No. 104-3427         | ..... 10 | Injection Pump Assembly                                                 | ..... 35 |
| Hydraulic Assembly                        | ..... 11 | Governor Assembly                                                       | ..... 36 |
| Parking Brake Assembly                    | ..... 12 | Speed Control Plate Assembly                                            | ..... 37 |
| Electrical Assembly                       | ..... 13 | Nozzle Holder and Glow Plug Assembly                                    | ..... 38 |
| Hood Assembly                             | ..... 14 | Nozzle Holder Assembly                                                  | ..... 39 |
| Fuel Tank Assembly                        | ..... 15 | Alternator and Pulley Assembly                                          | ..... 40 |
| Seat Assembly                             | ..... 16 | Alternator Components Assembly                                          | ..... 41 |
| Seat Assembly No. 107-2286                | ..... 17 | Starter (Component Part) Assembly No. 98-9705                           | ..... 42 |
| Driveshaft Assembly                       | ..... 18 | Water Flange and Thermostat Assembly                                    | ..... 43 |
| Driveshaft Assembly No. 110-3575          | ..... 19 | Water Pump Assembly                                                     | ..... 44 |
| Rear Drive Assembly                       | ..... 20 | Inlet and Exhaust Manifold Assembly                                     | ..... 45 |
| Hydraulic Motor Assembly No. 108-5230     | ..... 21 | Valve and Rocker Arm Assembly                                           | ..... 46 |
| Hydraulic Motor Assembly No. 108-5155     | ..... 22 | Turbo Charger Assembly                                                  | ..... 47 |
| Engine and Muffler Assembly               | ..... 23 | Turbo Charger Oil Pipe Assembly                                         | ..... 48 |
| Crankcase Assembly                        | ..... 24 | Oil Cooler Assembly                                                     | ..... 49 |
| Oil Pan Assembly                          | ..... 25 | Gasket Kit                                                              | ..... 50 |
| Cylinder Head Assembly                    | ..... 26 | Electric Fuel Pump, Fuel Filter, Starter and Overflow Bottle Assemblies | ..... 51 |
| Head Cover Assembly                       | ..... 27 |                                                                         |          |

## Part Description Abbreviations

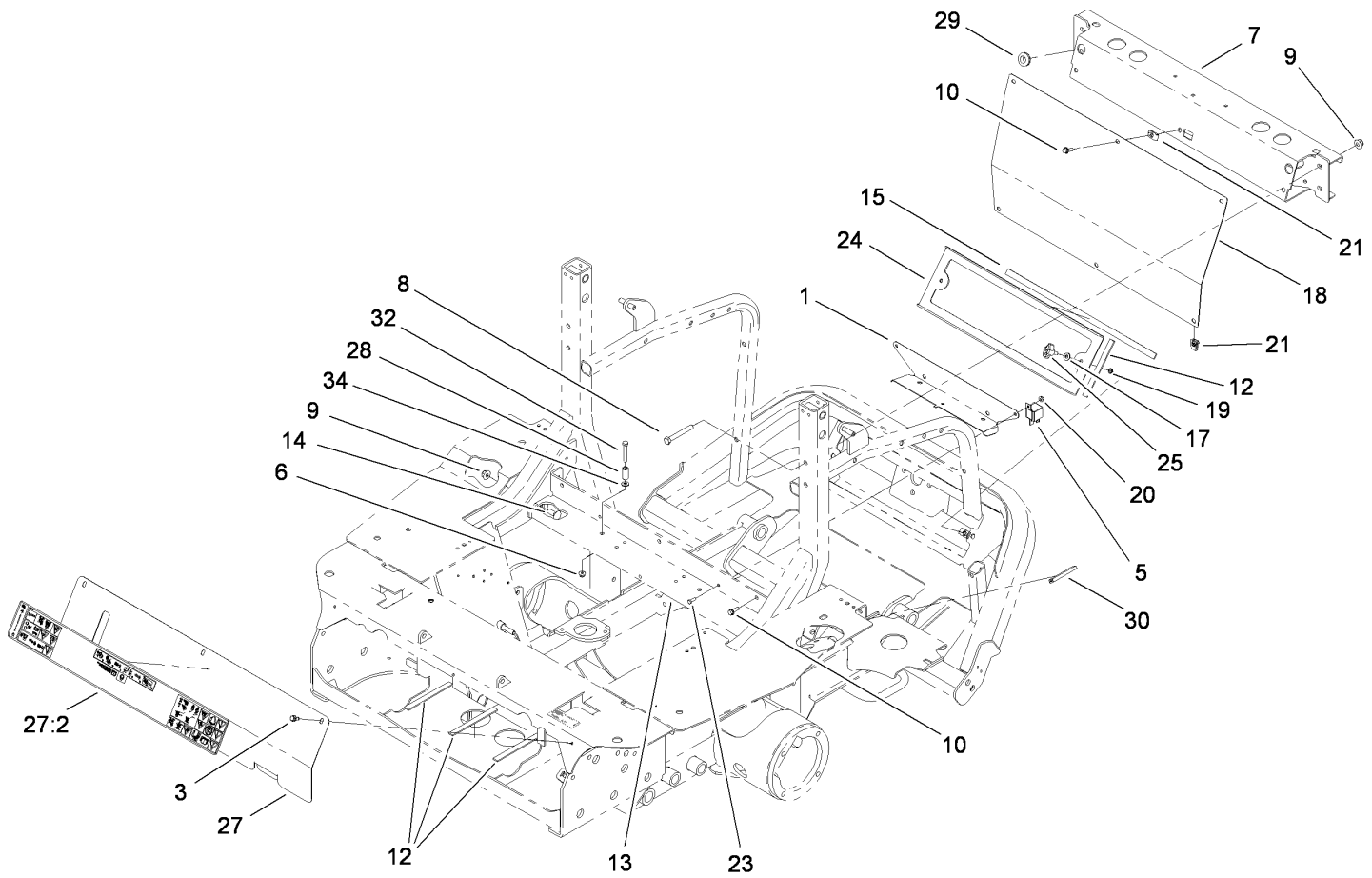
Part descriptions in this catalog may include the following abbreviations.

|                                            |                                              |
|--------------------------------------------|----------------------------------------------|
| 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

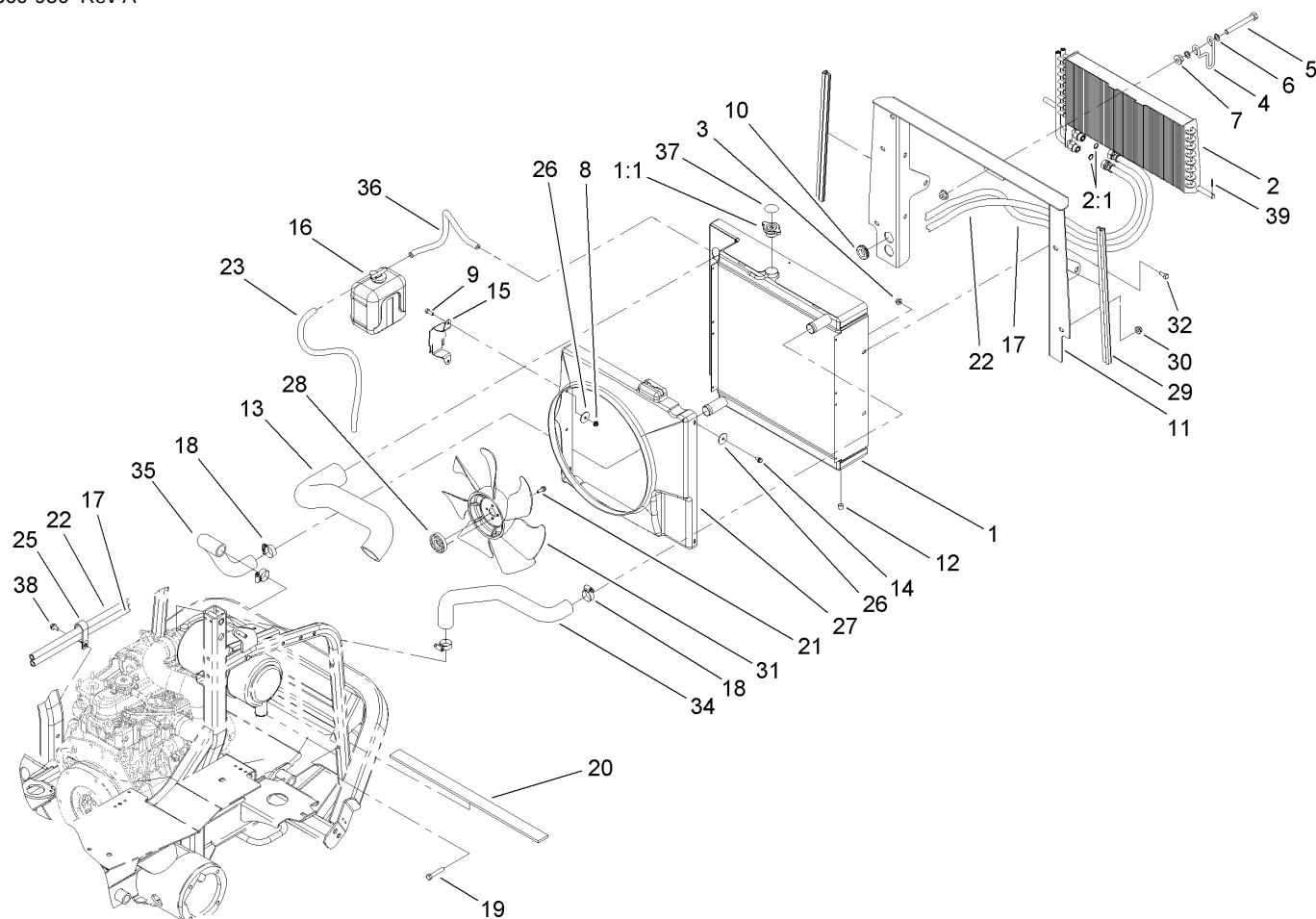
❷ Not serviced separately



## Frame Assembly

| Ref  | Part No.    | Qty. | Description     |
|------|-------------|------|-----------------|
| 1    | 114-4055-03 | 1    | Bracket-Wire    |
| 3    | 32144-10    | 3    | Screw-HWH       |
| 5    | 99-7435     | 1    | Relay-Power     |
| 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         |

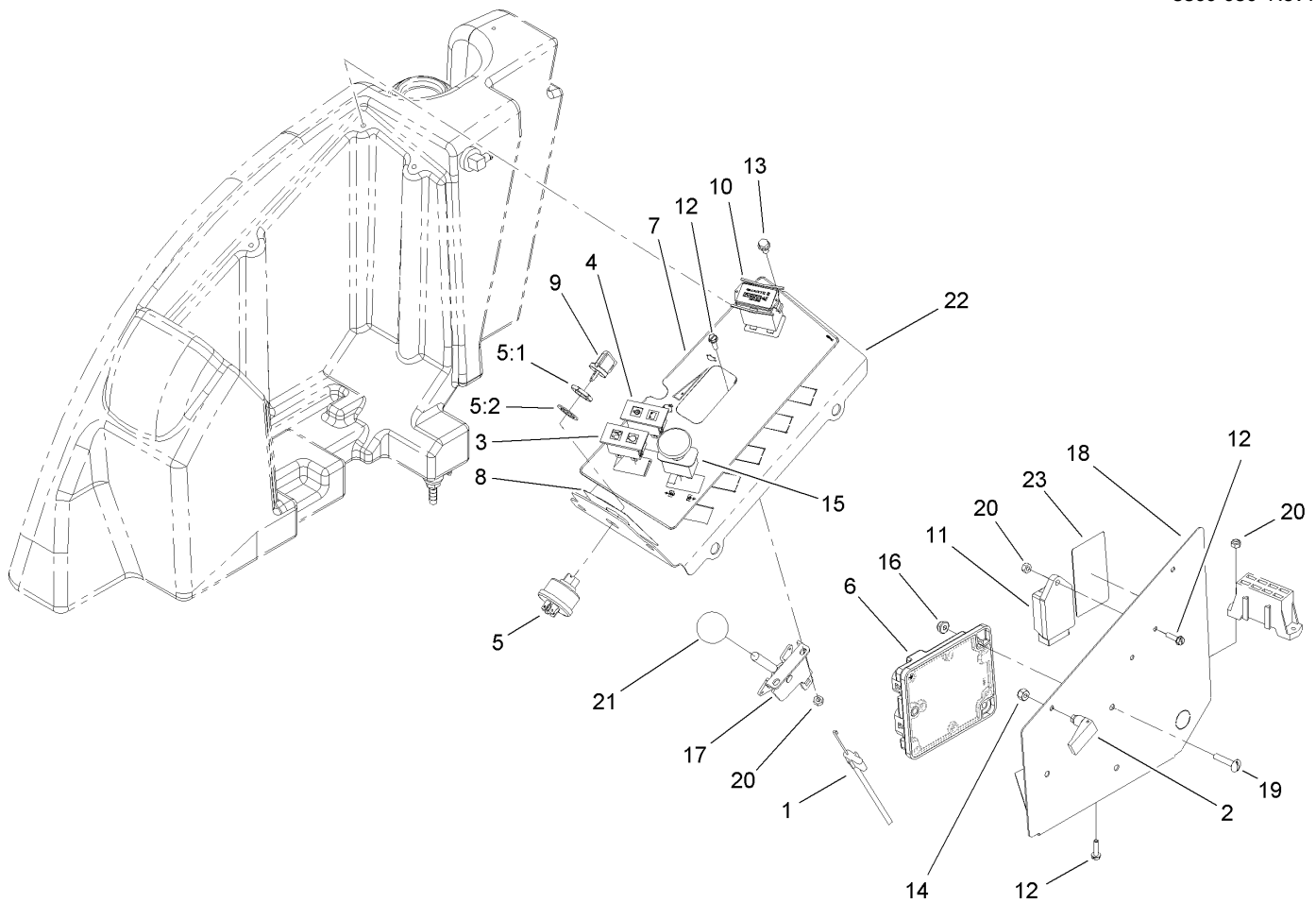
| Ref | Part No. | Qty. | Description             |
|-----|----------|------|-------------------------|
| 30  | 110-8276 | 1    | Trim-Hold Down, Battery |
| 32  | 321-10   | 2    | Screw-HH                |
| 34  | 3256-22  | 2    | Washer-Flat             |



## 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  | 240-4       | 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          |

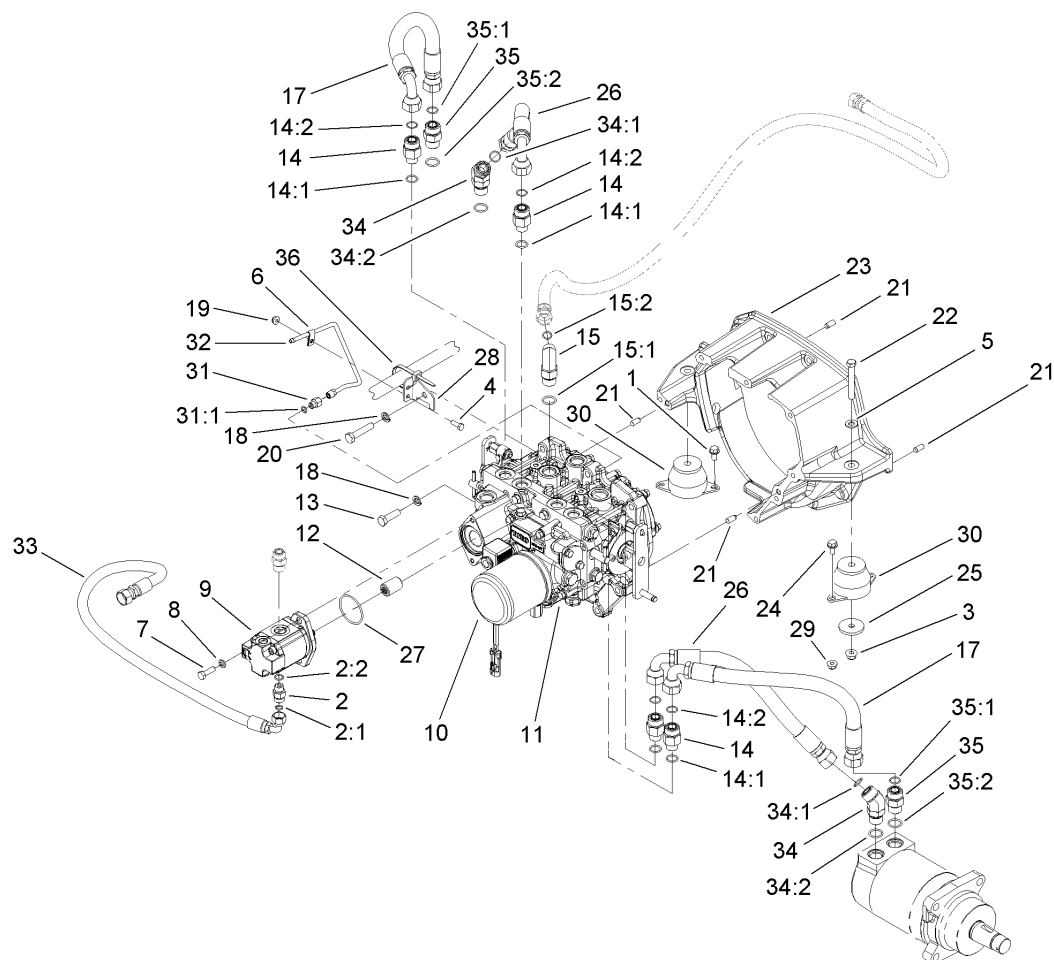
| Ref | Part No.  | Qty. | Description          |
|-----|-----------|------|----------------------|
| 23  | 108-3284  | 1    | Hose-Fuel            |
| 25  | 2412-137  | 1    | Clamp-R, Double      |
| 26  | 3256-55   | 6    | Washer-Flat          |
| 27  | 108-9927  | 1    | Shroud-Fan           |
| 28  | 104-4247  | 1    | Spacer-Fan           |
| 29  | 107-2269  | 2    | Seal-Bulb            |
| 30  | 104-8301  | 4    | Nut-Flange, NI       |
| 31  | 107-9096  | 1    | Fan-Cooling          |
| 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                |
|-----|-------------|------|----------------------------|
| 1   | 110-5548    | 1    | Cable-Throttle             |
| 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              |

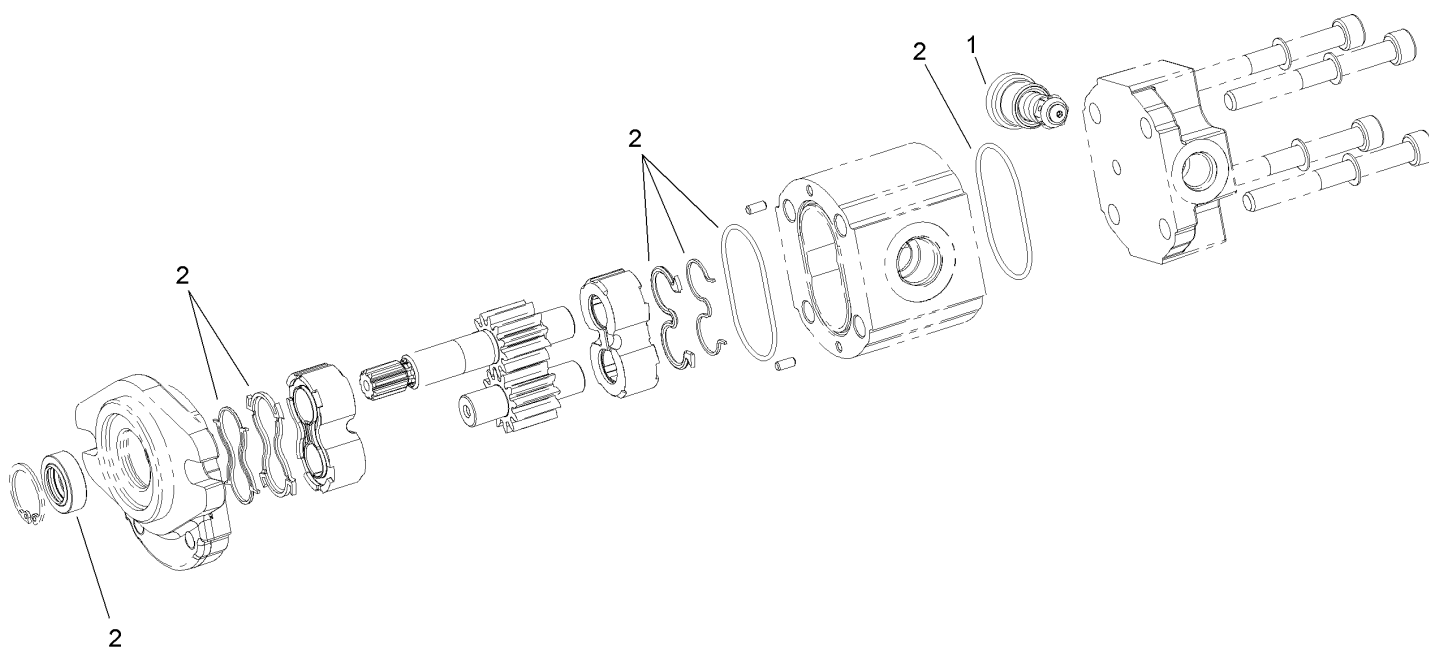
| Ref | Part No. | Qty. | Description       |
|-----|----------|------|-------------------|
| 23  | 110-9796 | 1    | Decal-Block, Fuse |



## Transmission Assembly

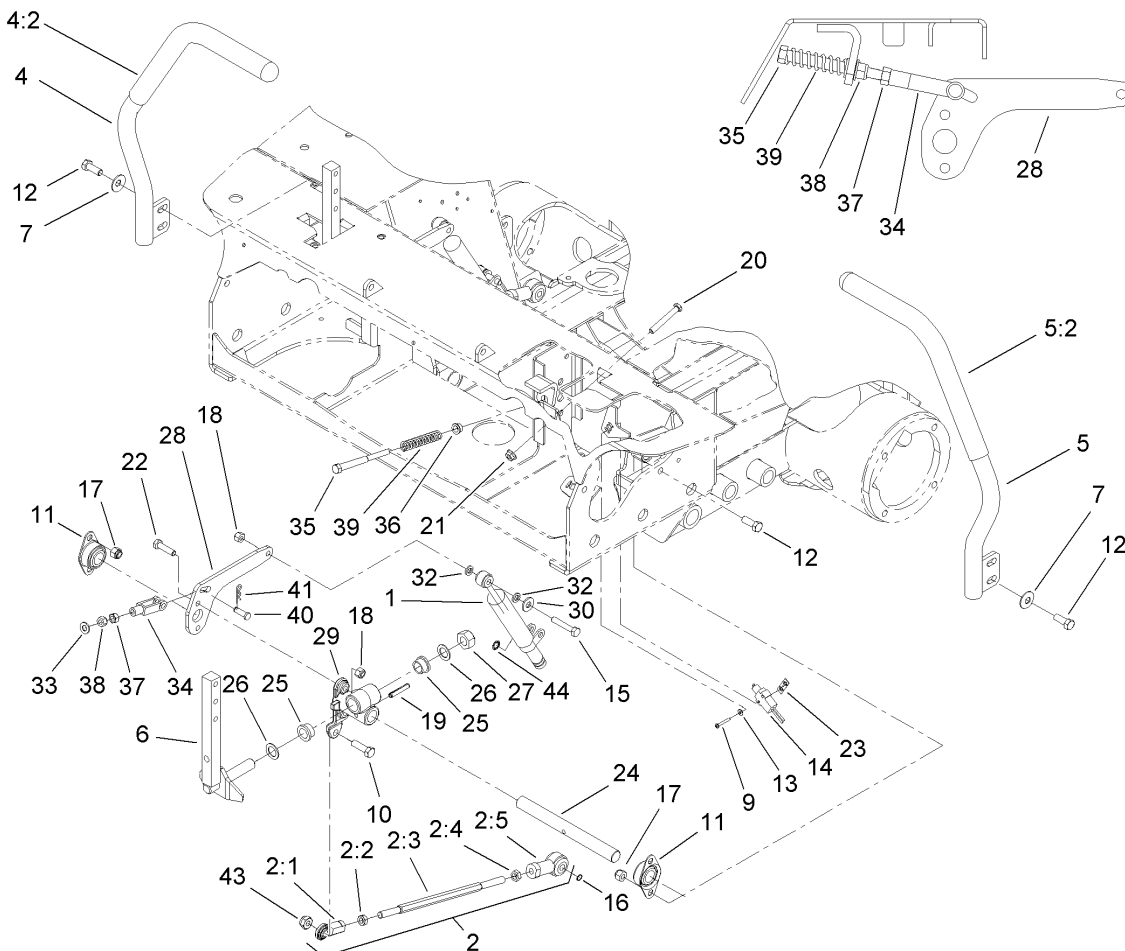
| Ref  | Part No.  | Qty. | Description            |
|------|-----------|------|------------------------|
| 1    | 32144-14  | 2    | Screw-HWHTF            |
| 2    | 340-2     | 1    | Fitting-HYD, Straight  |
| 2:1  | 237-22    | 1    | O-Ring                 |
| 2:2  | 237-42    | 1    | O-Ring                 |
| 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

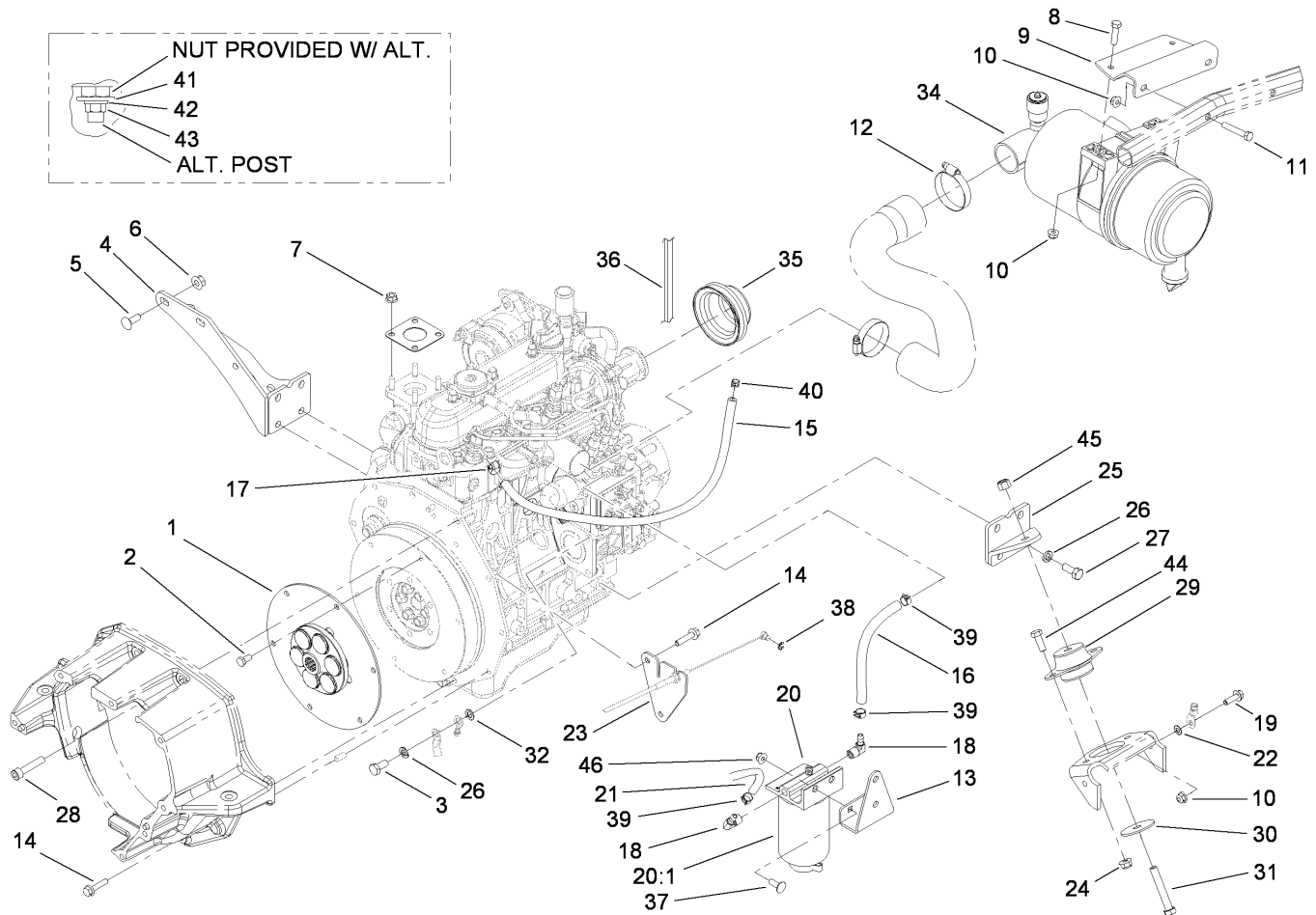
| Ref | Part No. | Qty. | Description |
|-----|----------|------|-------------|
| 1   | 112-0198 | 1    | Valve       |
| 2   | 112-0199 | 1    | Seal Kit    |



## 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              |

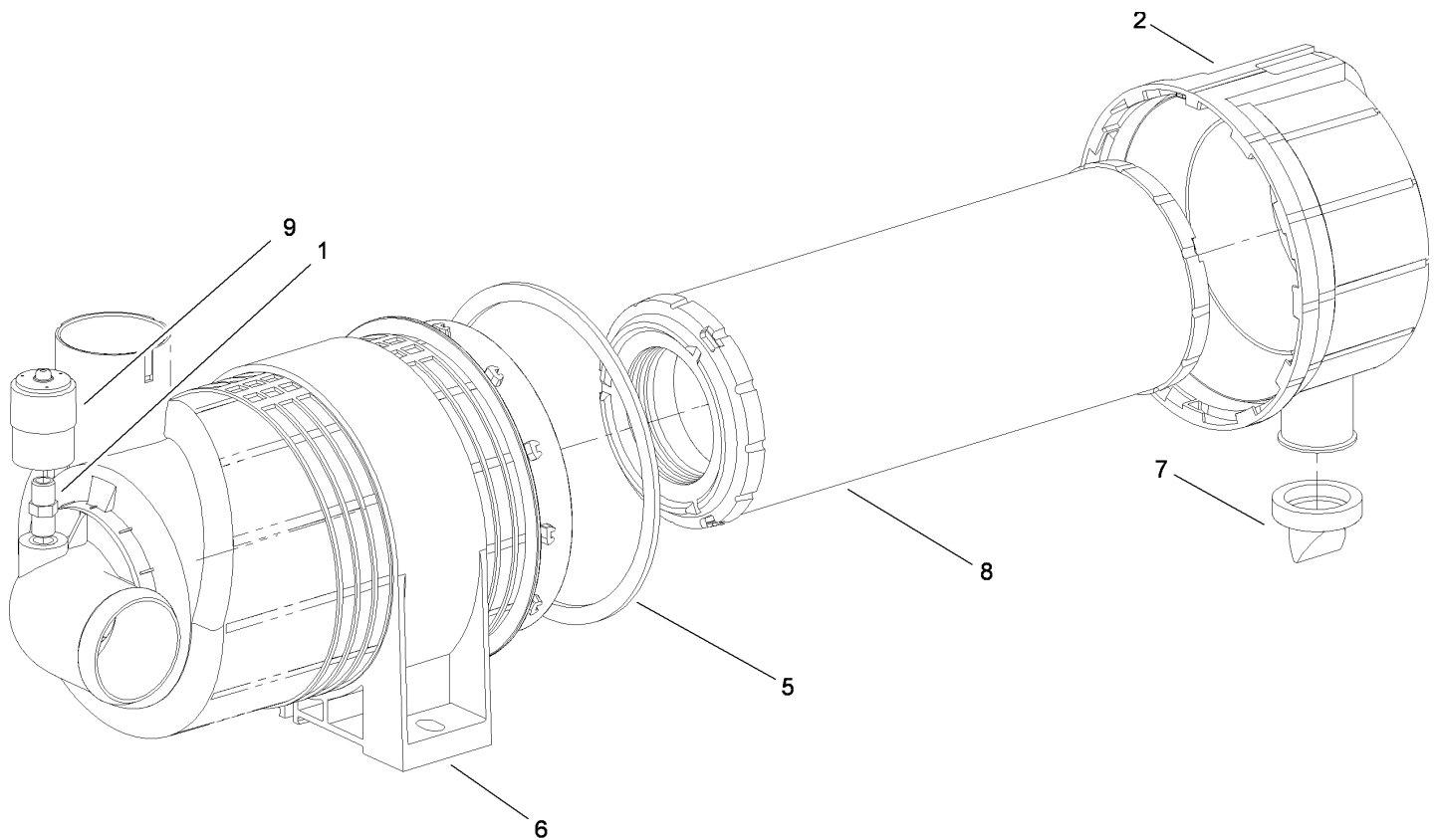
| Ref | Part No.    | Qty. | Description            |
|-----|-------------|------|------------------------|
| 20  | 9114524     | 2    | Bolt-TAP, HH           |
| 21  | 32128-26    | 2    | Nut-Flange             |
| 22  | 322-6       | 4    | Screw-HH               |
| 23  | 108-9824    | 2    | Nut-Switch             |
| 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

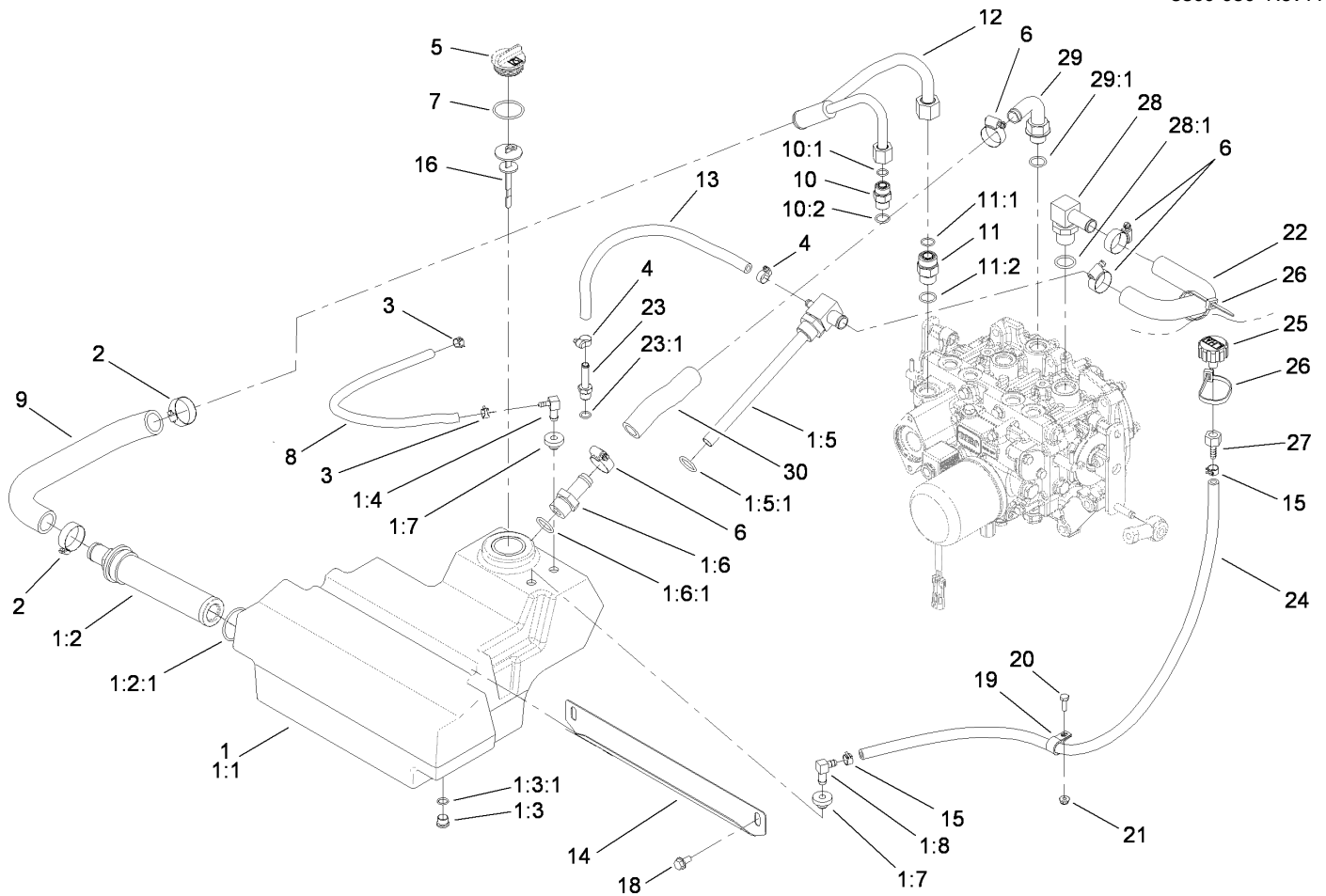
| Ref  | Part No.    | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 110-9729    | 1    | Flywheel Coupling ASM |
| 2    | 33114-016   | 6    | Screw-HH              |
| 3    | 63-7790     | 1    | Screw-Cap             |
| 4    | 108-9926-03 | 1    | Muffler 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. 104-3427

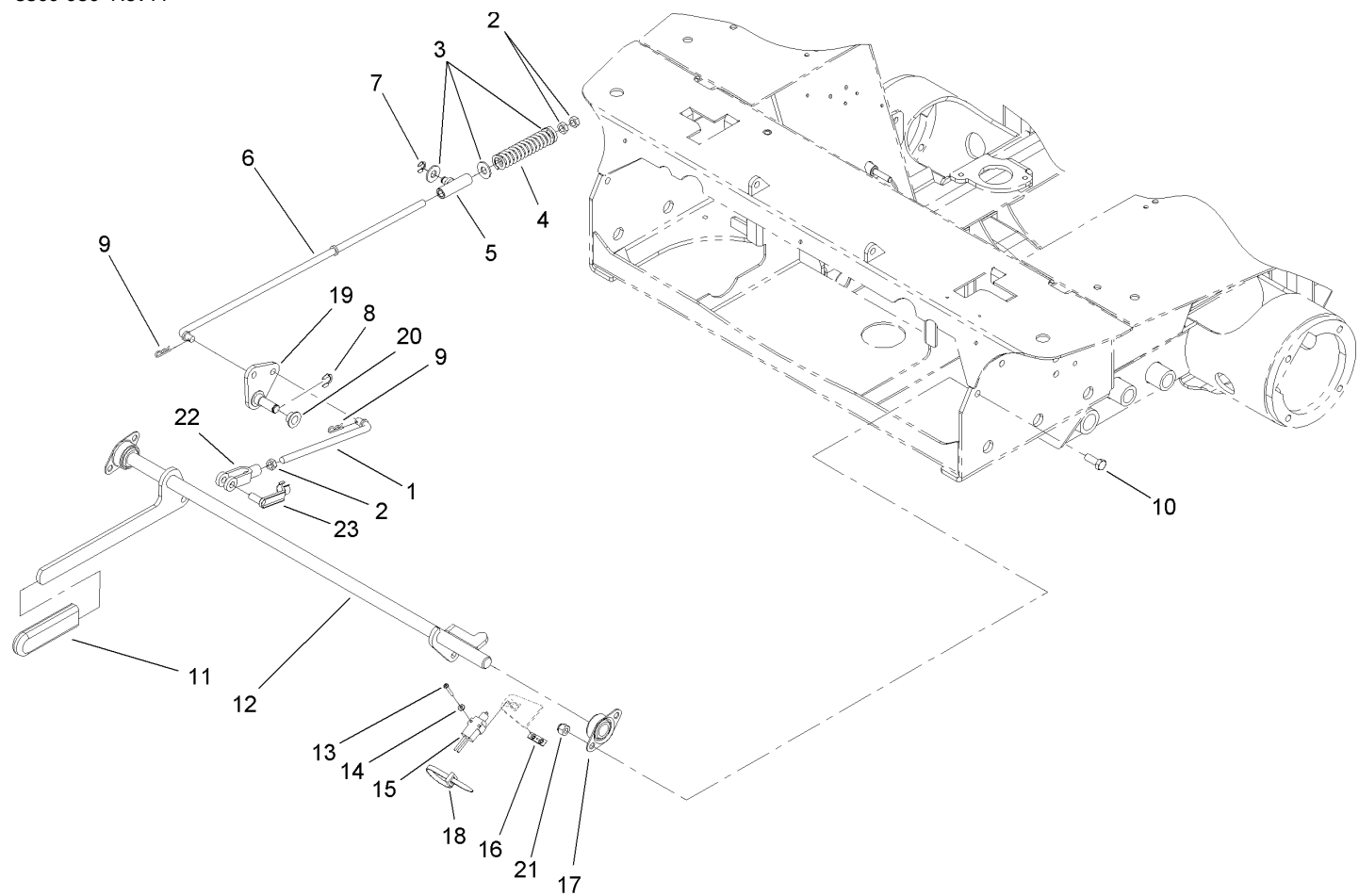
| Ref | Part No. | Qty. | Description          |
|-----|----------|------|----------------------|
| 1   | 105-4292 | 1    | Nipple-Pipe          |
| 2   | 104-0497 | 1    | Cover ASM            |
| 5   | 104-4897 | 1    | Gasket               |
| 6   | 98-4525  | 1    | Bracket-Cleaner, Air |
| 7   |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



## Hydraulic Assembly

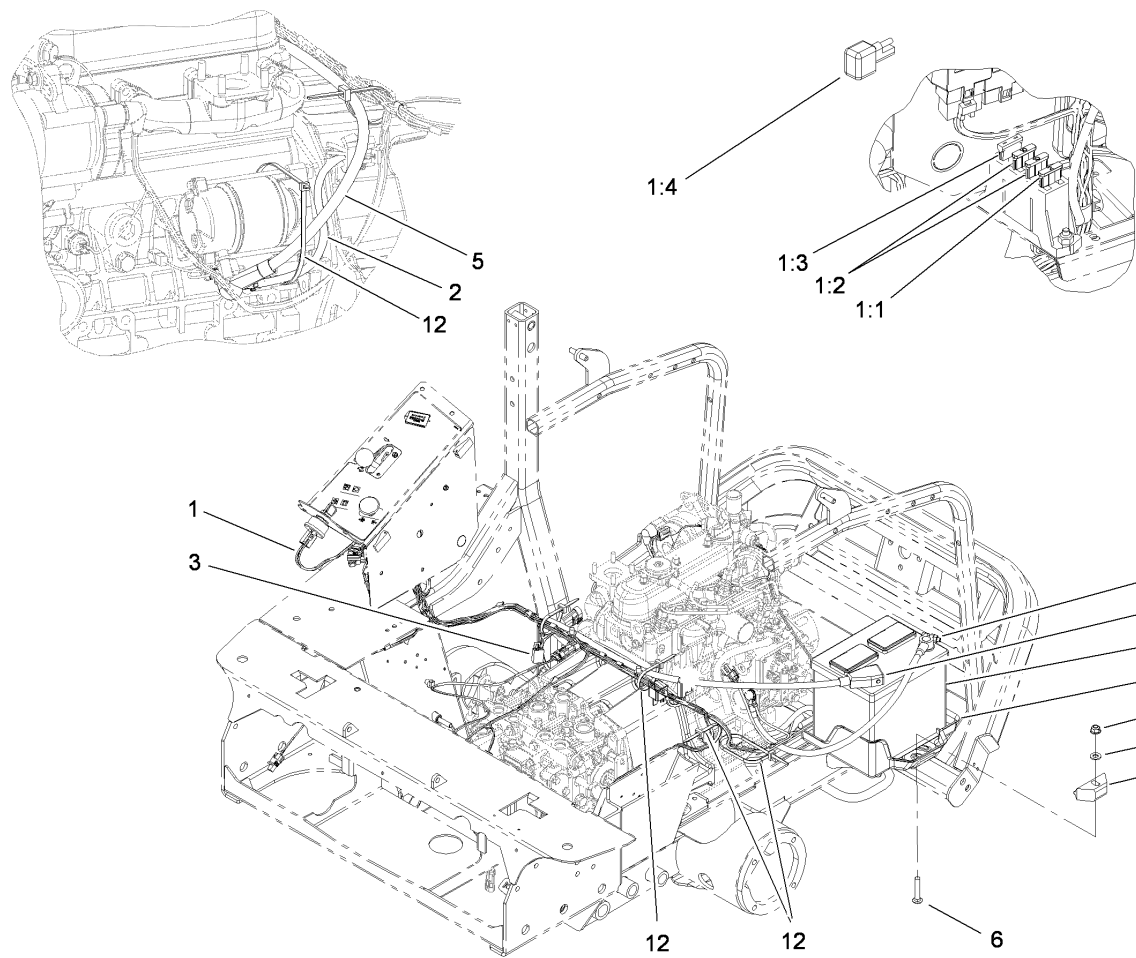
| Ref   | Part No. | Qty. | Description             |
|-------|----------|------|-------------------------|
| 1     | 110-8237 | 1    | Hydraulic Reservoir ASM |
| 1:1   | 108-5200 | 1    | Reservoir-Hydraulic     |
| 1:2   | 104-7546 | 1    | Strainer-Tank           |
| 1:2:1 | 340-136  | 1    | O-Ring                  |
| 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                |



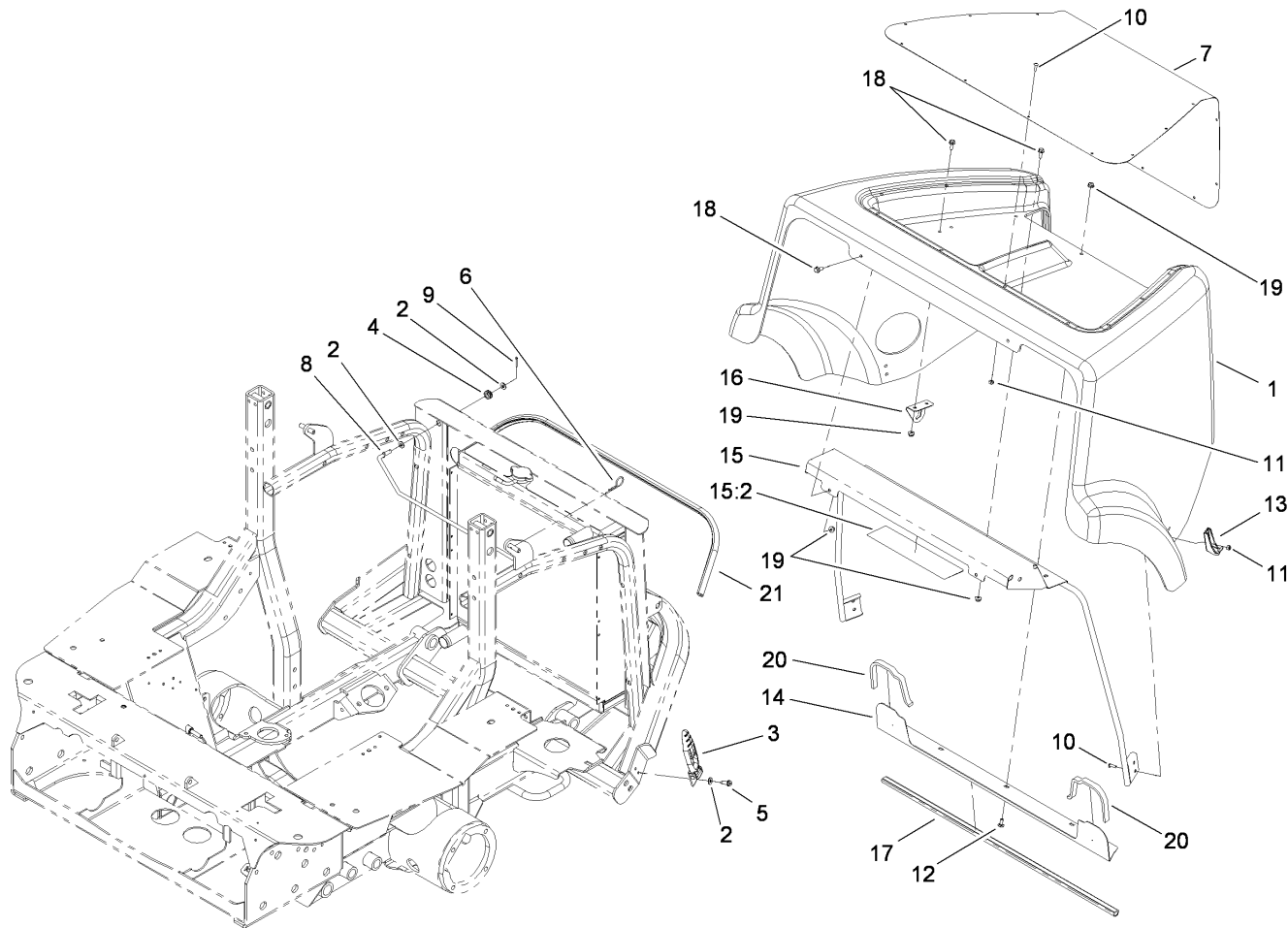
Parking Brake Assembly

| 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  | 3296-39     | 4    | Nut-Lock, NI         |  |  |  |  |
| 22  | 1-633131    | 2    | Yoke-Linkage, Brake  |  |  |  |  |
| 23  | 103-2399    | 2    | Pin-Spring, Clevis   |  |  |  |  |



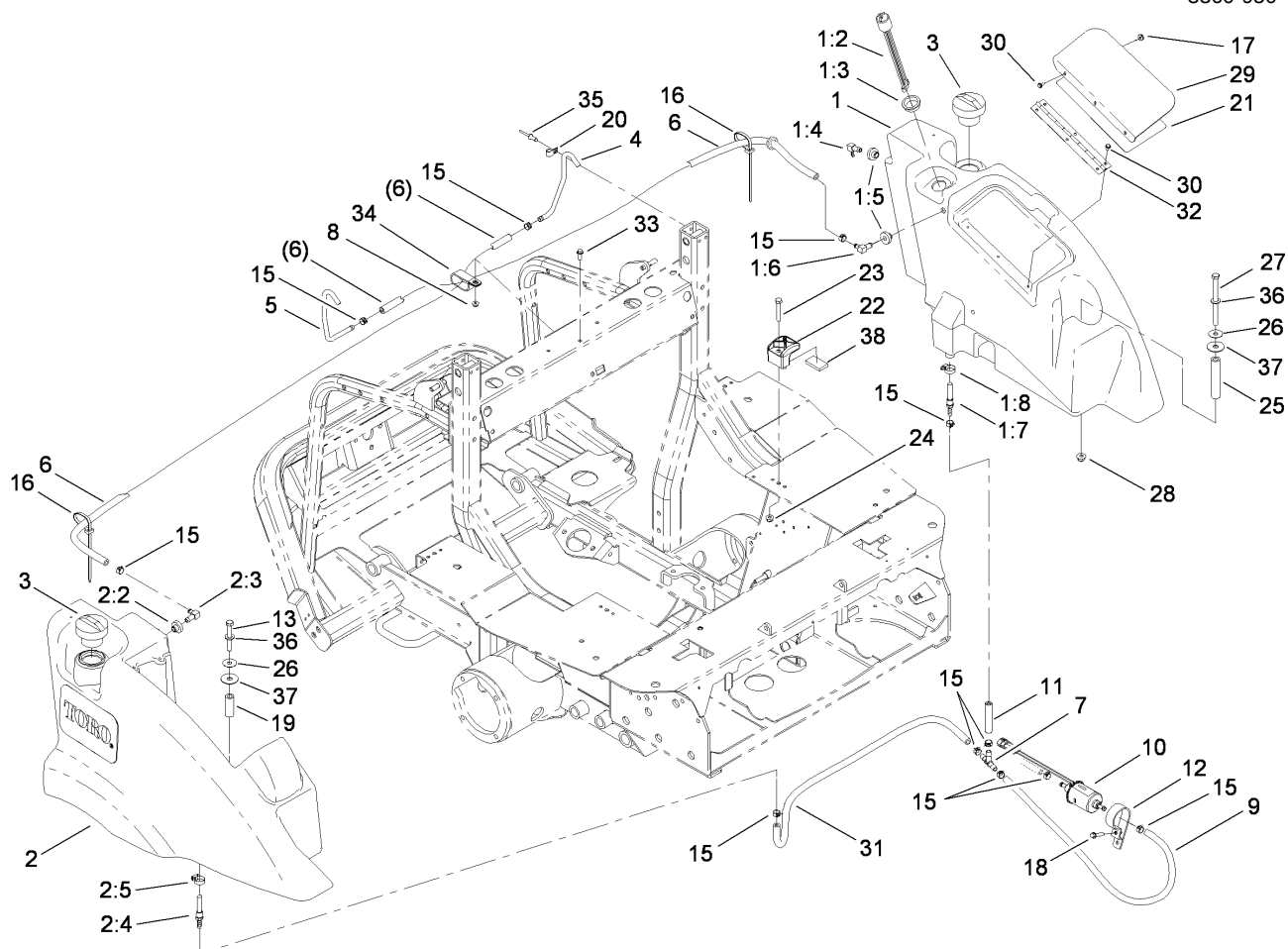
Electrical Assembly

| 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

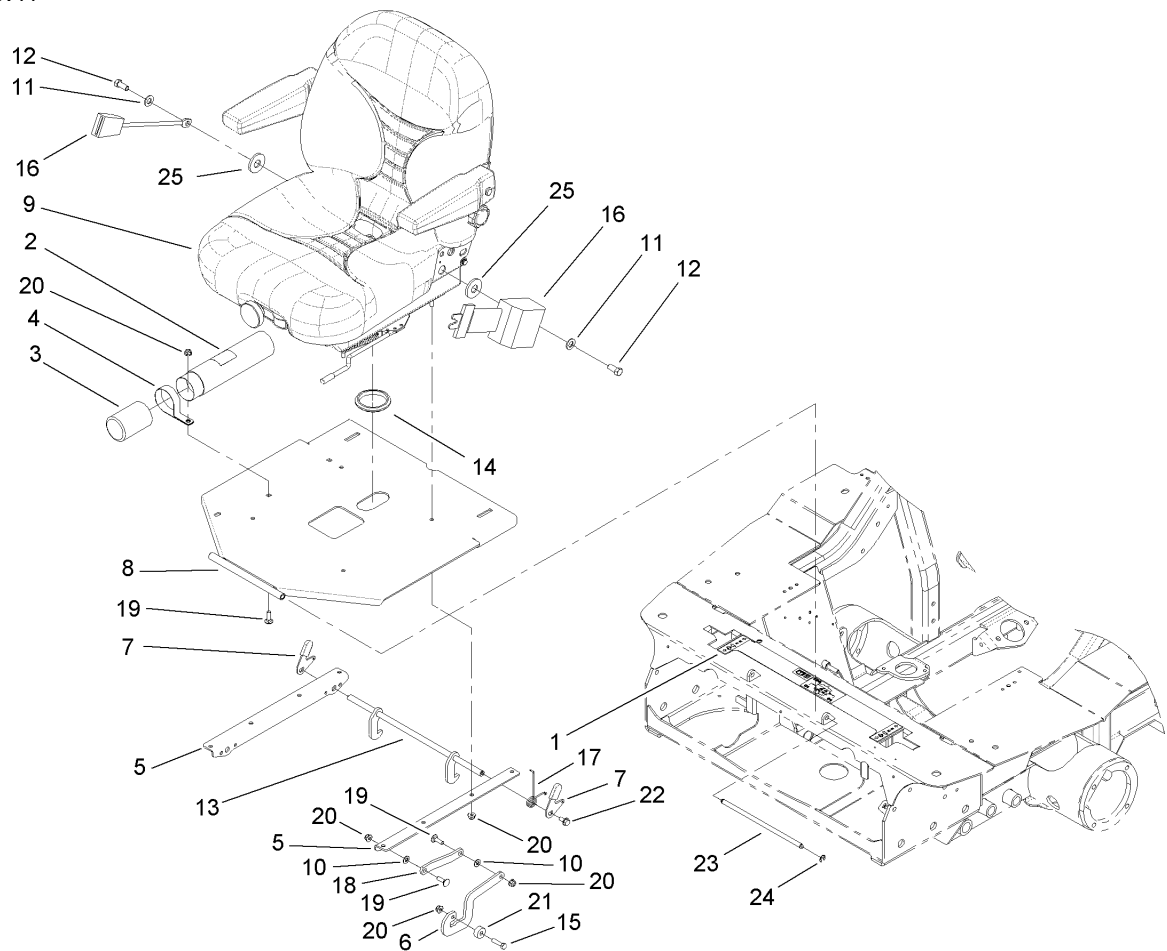
| Ref  | Part No.    | Qty. | Description       |  |  |  |  |
|------|-------------|------|-------------------|--|--|--|--|
| 1    | 112-6311    | 1    | Hood ASM          |  |  |  |  |
| 2    | 3256-2      | 4    | Washer-Flat       |  |  |  |  |
| 3    | 103-2898    | 2    | Latch-Rubber      |  |  |  |  |
| 4    | 237-136     | 1    | Grommet           |  |  |  |  |
| 5    | 32104-95    | 2    | Screw-HWH         |  |  |  |  |
| 6    | 3290-255    | 1    | Pin-Cotter, Hair  |  |  |  |  |
| 7    | 108-9943-03 | 1    | Screen-Intake     |  |  |  |  |
| 8    | 110-8291    | 1    | Rod-Prop, Hood    |  |  |  |  |
| 9    | 3272-6      | 1    | Pin-Cotter        |  |  |  |  |
| 10   | 3274-39     | 21   | Screw-HSBH        |  |  |  |  |
| 11   | 3296-2      | 21   | 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         |  |  |  |  |



## Fuel Tank Assembly

| Ref | Part No. | Qty. | Description        |
|-----|----------|------|--------------------|
| 1   | 110-8230 | 1    | LH Fuel Tank ASM   |
| 1:2 | 110-8262 | 1    | Gauge-Fuel         |
| 1:3 | 95-8972  | 1    | Grommet            |
| 1:4 | 104-5228 | 1    | Fitting-Elbow      |
| 1:5 | 46-6560  | 2    | Bushing            |
| 1:6 | 1-643259 | 1    | Fitting-Elbow      |
| 1:7 | 112-6374 | 1    | Fitting-Strainer   |
| 1:8 | 2412-36  | 1    | Clamp-Hose         |
| 2   | 110-8236 | 1    | RH Fuel Tank ASM   |
| 2:2 | 46-6560  | 1    | Bushing            |
| 2:3 | 1-643259 | 1    | Fitting-Elbow      |
| 2:4 | 112-6374 | 1    | Fitting-Strainer   |
| 2:5 | 2412-36  | 1    | Clamp-Hose         |
| 3   | 115-3002 | 2    | Cap-Biodiesel      |
| 4   | 110-8261 | 1    | Tube-Vent, LH      |
| 5   | 110-8260 | 1    | Tube-Vent, RH      |
| 6   | 110-6186 | 2    | Hose-Fuel          |
| 7   | 354-107  | 1    | Fitting-HYD, Tee   |
| 8   | 104-7201 | 1    | Nut-HF             |
| 9   | 110-4112 | 1    | Hose-Fuel          |
| 10  | 110-8806 | 1    | Pump-Fuel          |
| 11  | 112-6388 | 1    | Hose-Fuel          |
| 12  | 110-8817 | 1    | Bracket-Pump, Fuel |
| 13  | 323-13   | 1    | Screw-HH           |

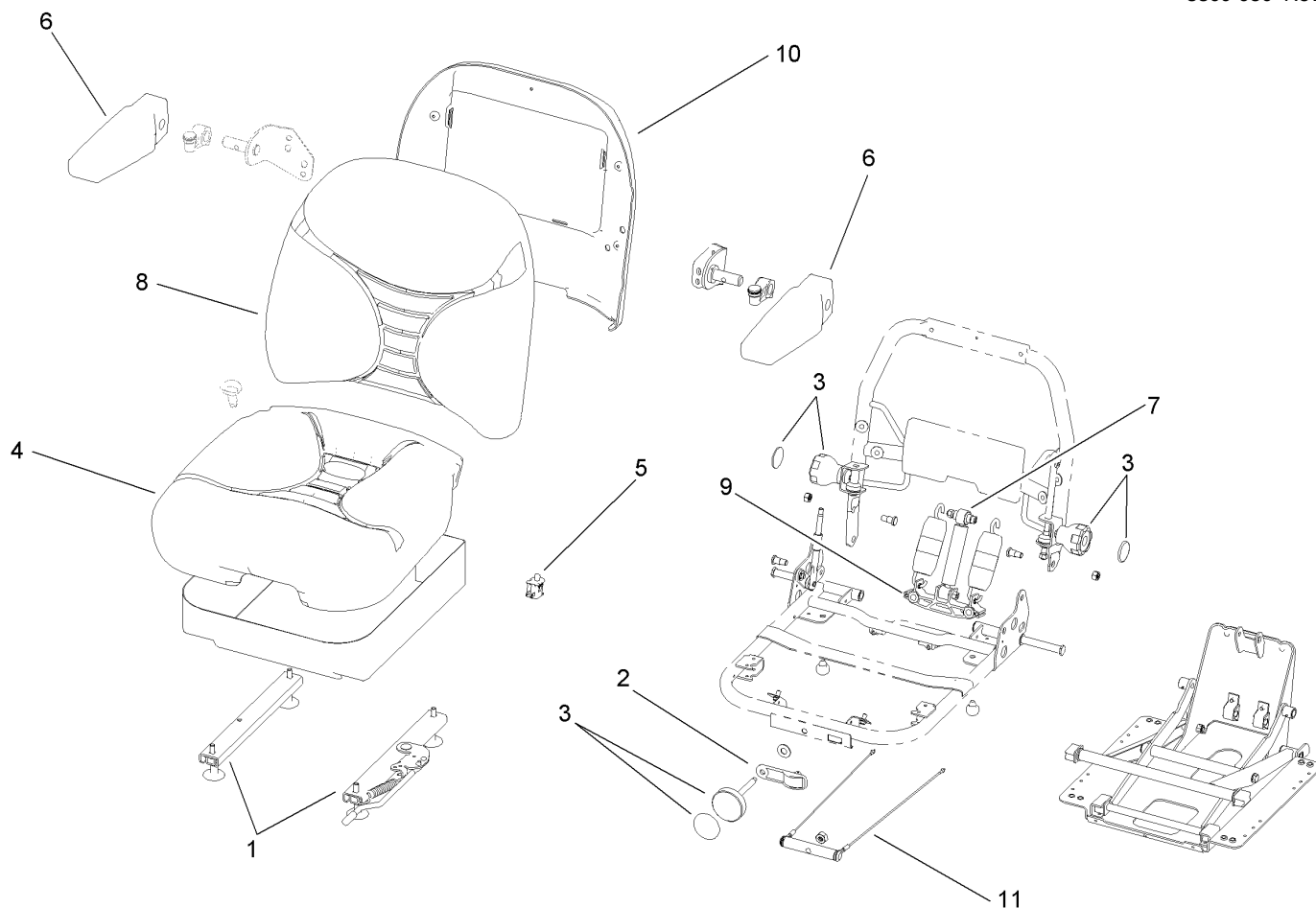
| Ref | Part No.    | Qty. | Description                 |
|-----|-------------|------|-----------------------------|
| 15  | 92-2379     | 11   | Clamp-Hose                  |
| 16  | 3290-378    | 2    | Tie-Cable                   |
| 17  | 32149-8     | 3    | Nut-Keps                    |
| 18  | 32144-110   | 1    | Screw-HWH                   |
| 19  | 92-1239     | 1    | Spacer-Support              |
| 20  | 2412-89     | 2    | Clamp                       |
| 21  | 110-8252    | 1    | Decal-Instructions, Service |
| 22  | 107-4543    | 4    | Clamp                       |
| 23  | 322-10      | 4    | Screw-HH                    |
| 24  | 104-8300    | 4    | Nut-Flange, NI              |
| 25  | 110-5539    | 1    | Spacer                      |
| 26  | 105-6814    | 2    | Washer-Plain                |
| 27  | 323-39      | 1    | Screw-HH                    |
| 28  | 104-8301    | 2    | Nut-Flange, NI              |
| 29  | 110-5540-03 | 1    | Cover-Toolbox               |
| 30  | 112-6349    | 6    | Screw-HWH                   |
| 31  | 110-9662    | 1    | Hose-Fuel                   |
| 32  | 108-2024    | 1    | Hinge                       |
| 33  | 3234-4      | 1    | Screw-HHF                   |
| 34  | 2412-137    | 1    | Clamp-R, Double             |
| 35  | 3290-412    | 2    | Rivet                       |
| 36  | 3256-24     | 2    | Washer-Flat                 |
| 37  | 95-1905     | 2    | Washer-Rubber               |
| 38  | 112-9561    | 4    | Pad-Foam                    |



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           |

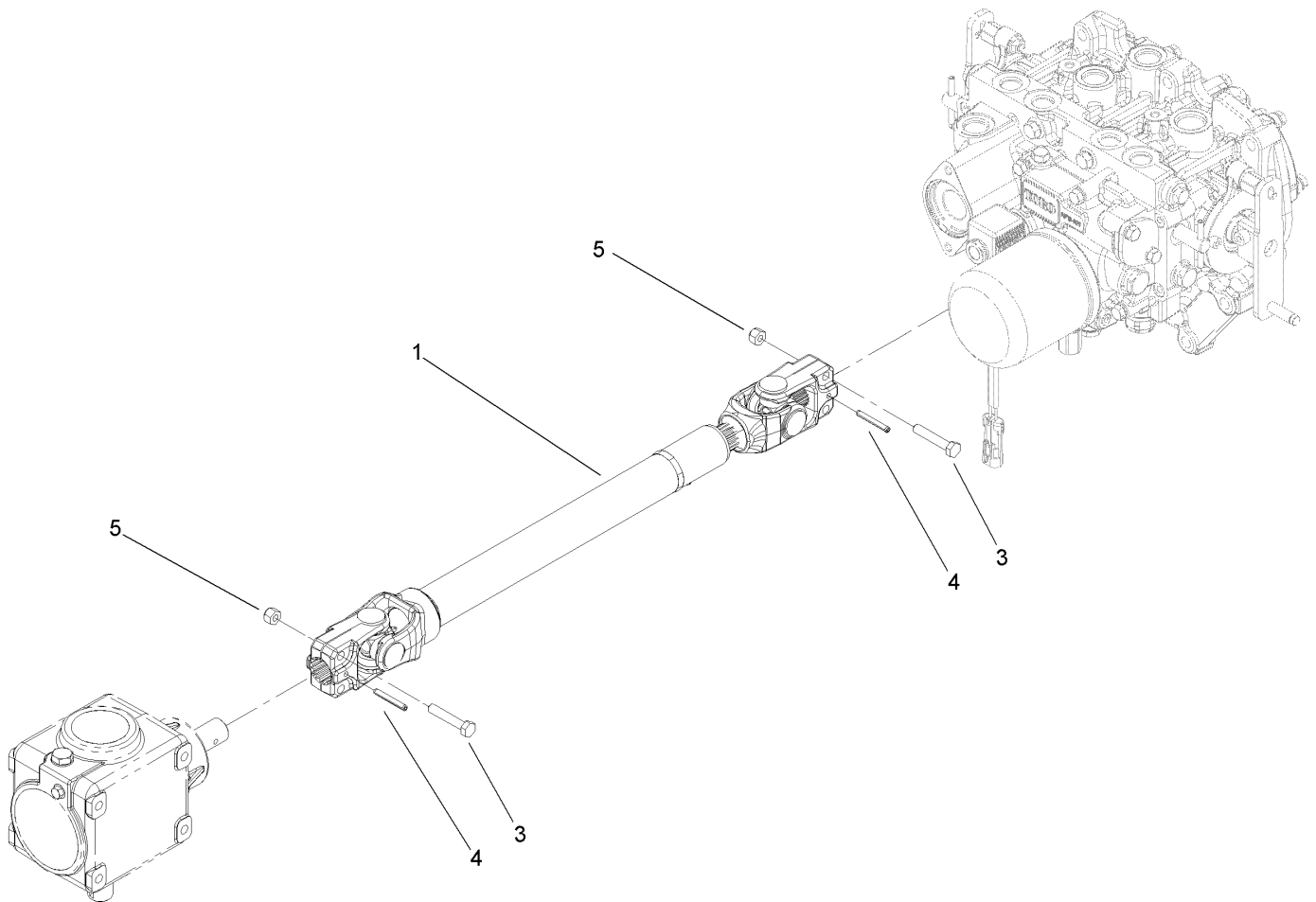
| Ref | Part No. | Qty. | Description |
|-----|----------|------|-------------|
| 25  | 99-7667  | 2    | Washer-Flat |



# Seat Assembly No. 107-2286

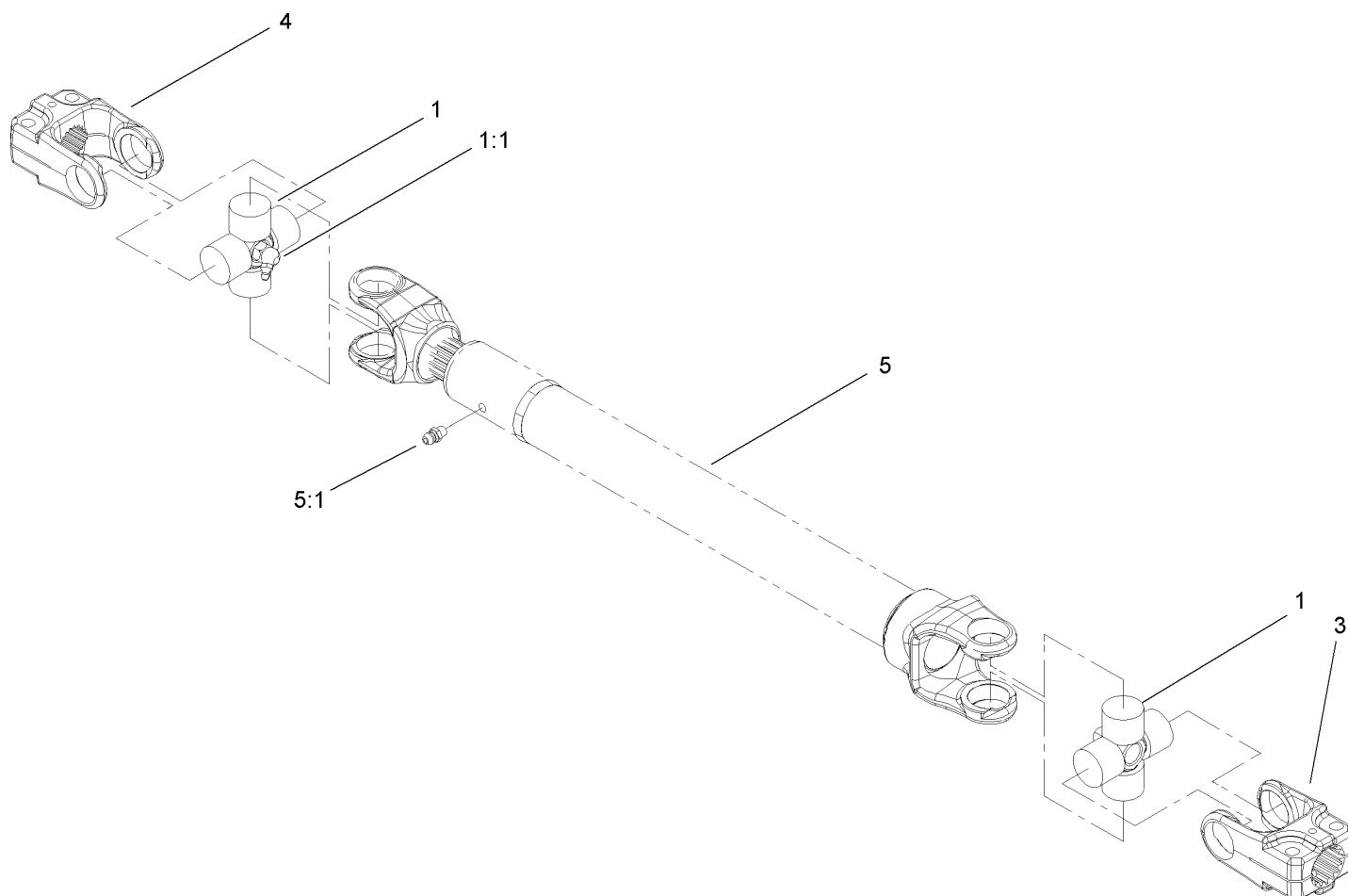
| Ref | Part No. | Qty. | Description           |
|-----|----------|------|-----------------------|
| 1   | 107-1880 | 1    | Seat Track Kit        |
| 2   | 107-1885 | 1    | Weight Indicator Kit  |
| 3   | 107-1881 | 1    | Knob Kit              |
| 4   | 107-1883 | 1    | Bottom Cushion Kit    |
| 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     |

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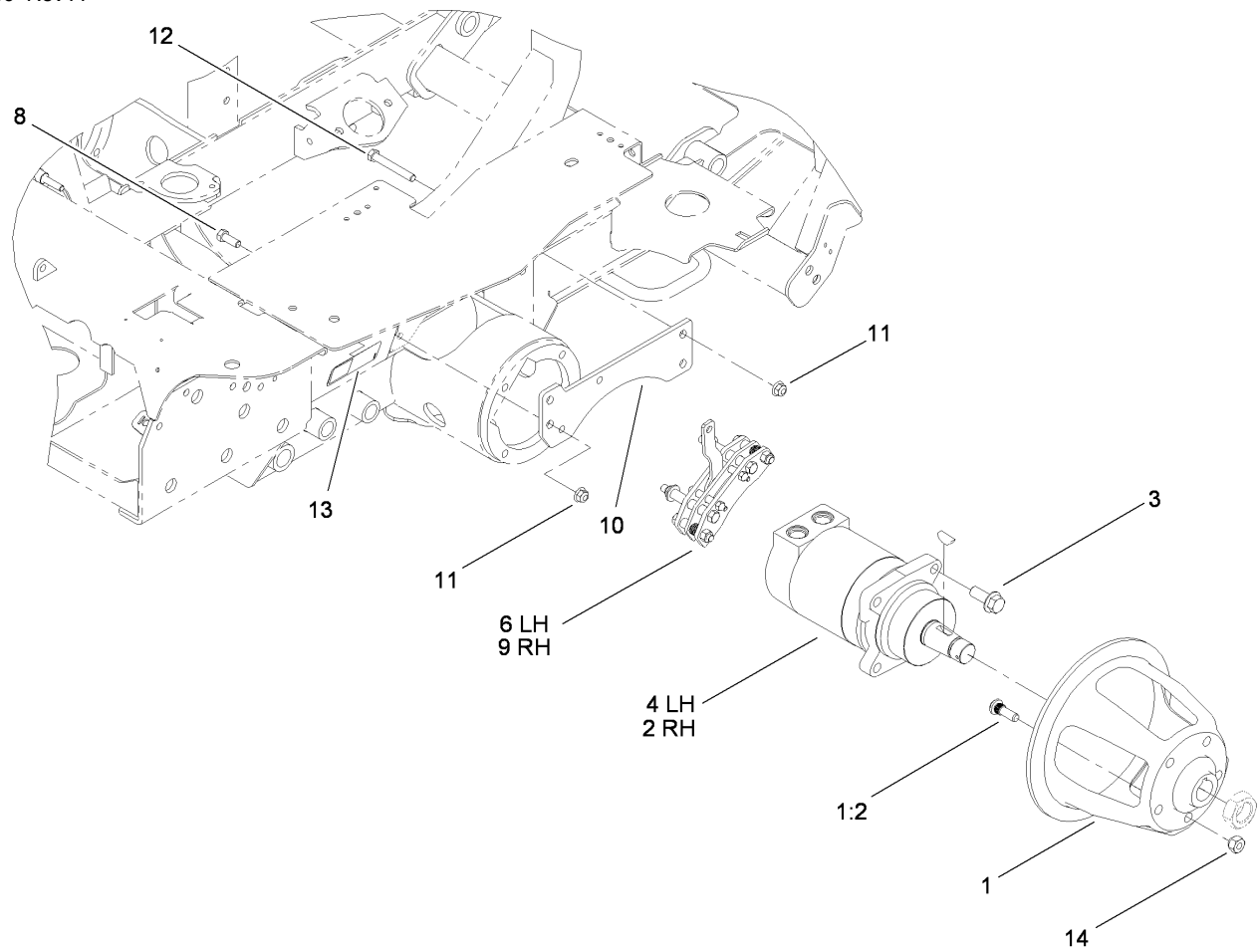
## Driveshaft Assembly

| Ref | Part No. | Qty. | Description  |
|-----|----------|------|--------------|
| 1   | 110-3575 | 1    | Driveshaft   |
| 3   | 322-9    | 4    | Screw-HH     |
| 4   | 32121-34 | 2    | Pin-Roll     |
| 5   | 3296-29  | 4    | Nut-Lock, NI |



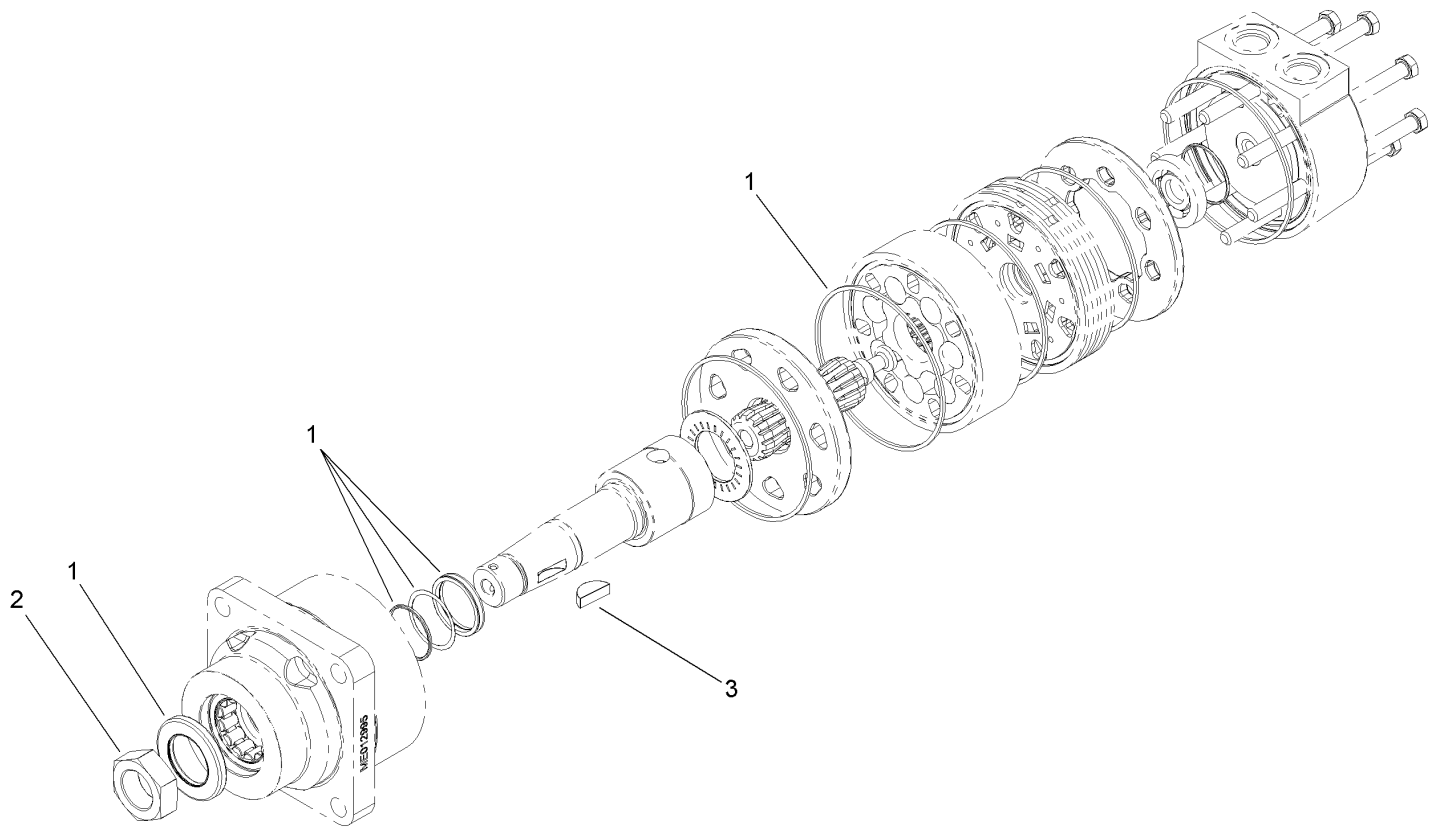
## Driveshaft Assembly No. 110-3575

| 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           |  |  |  |  |

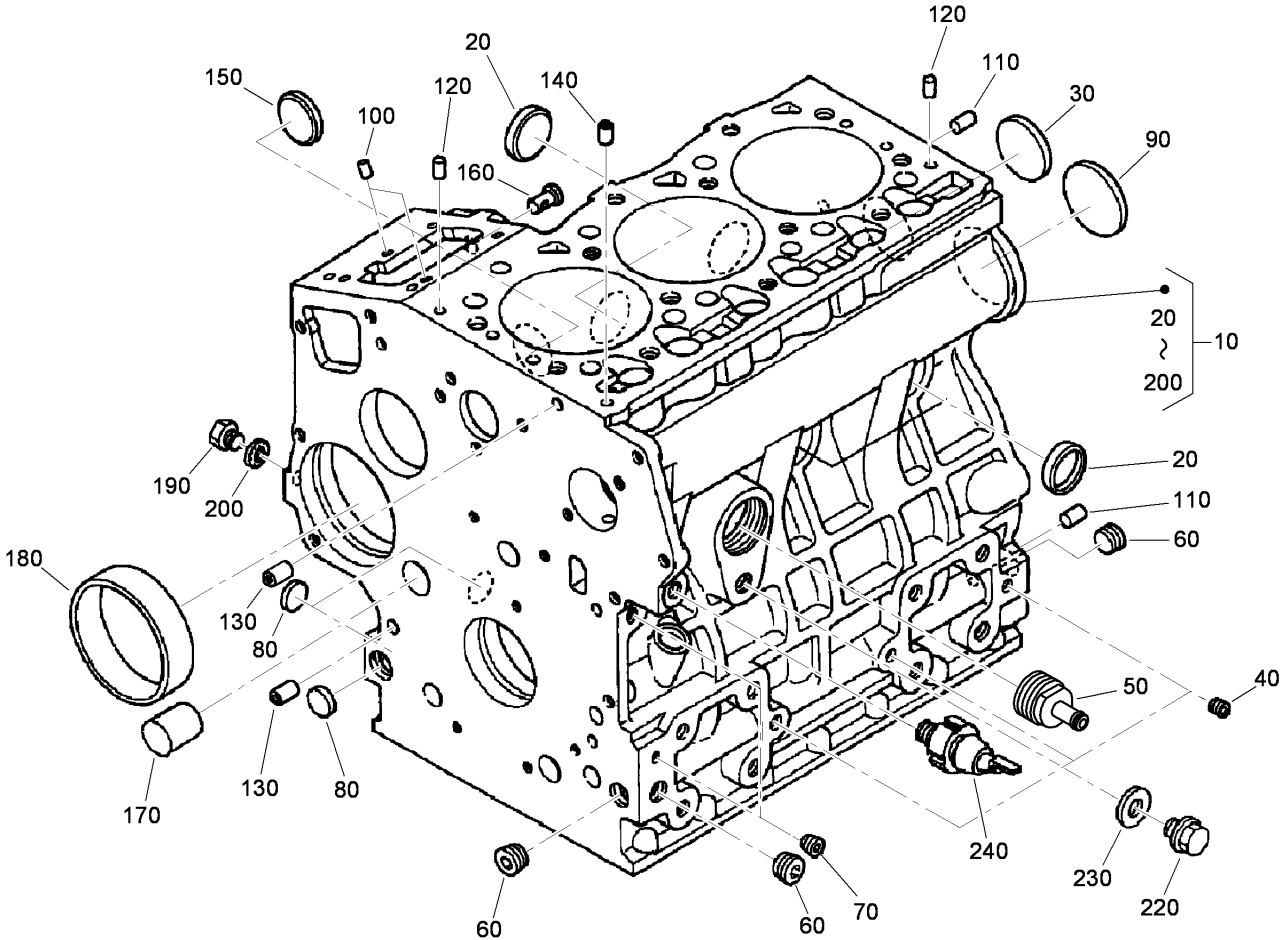


# Hydraulic Motor Assembly No. 108-5230

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

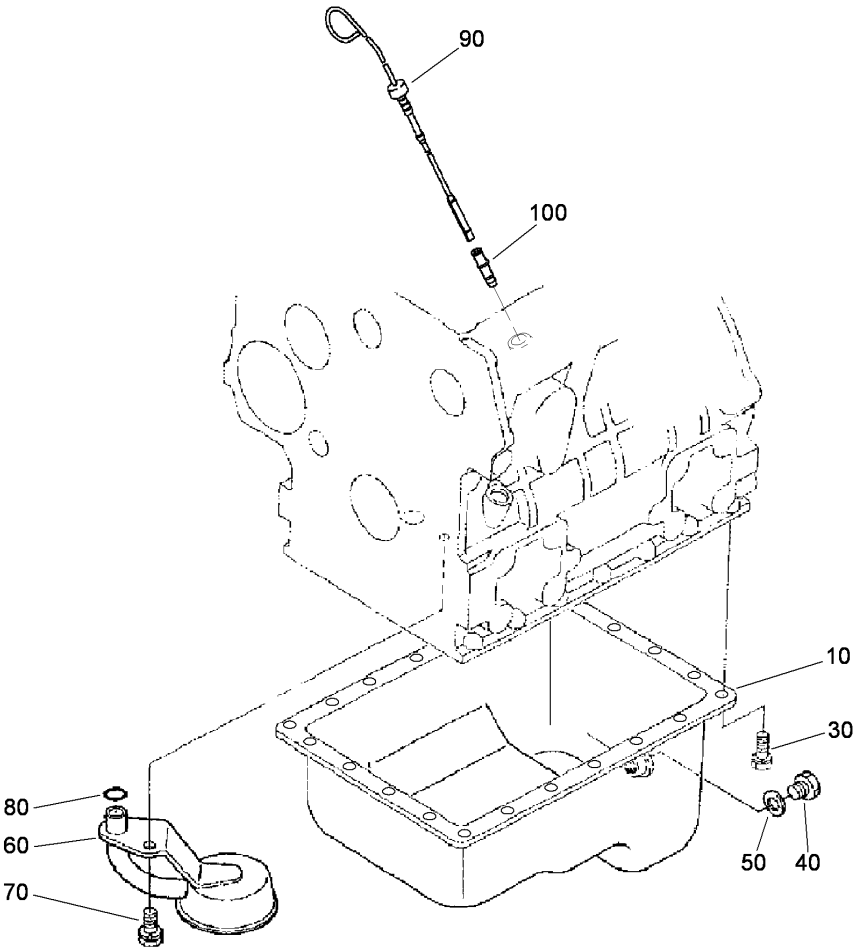


23



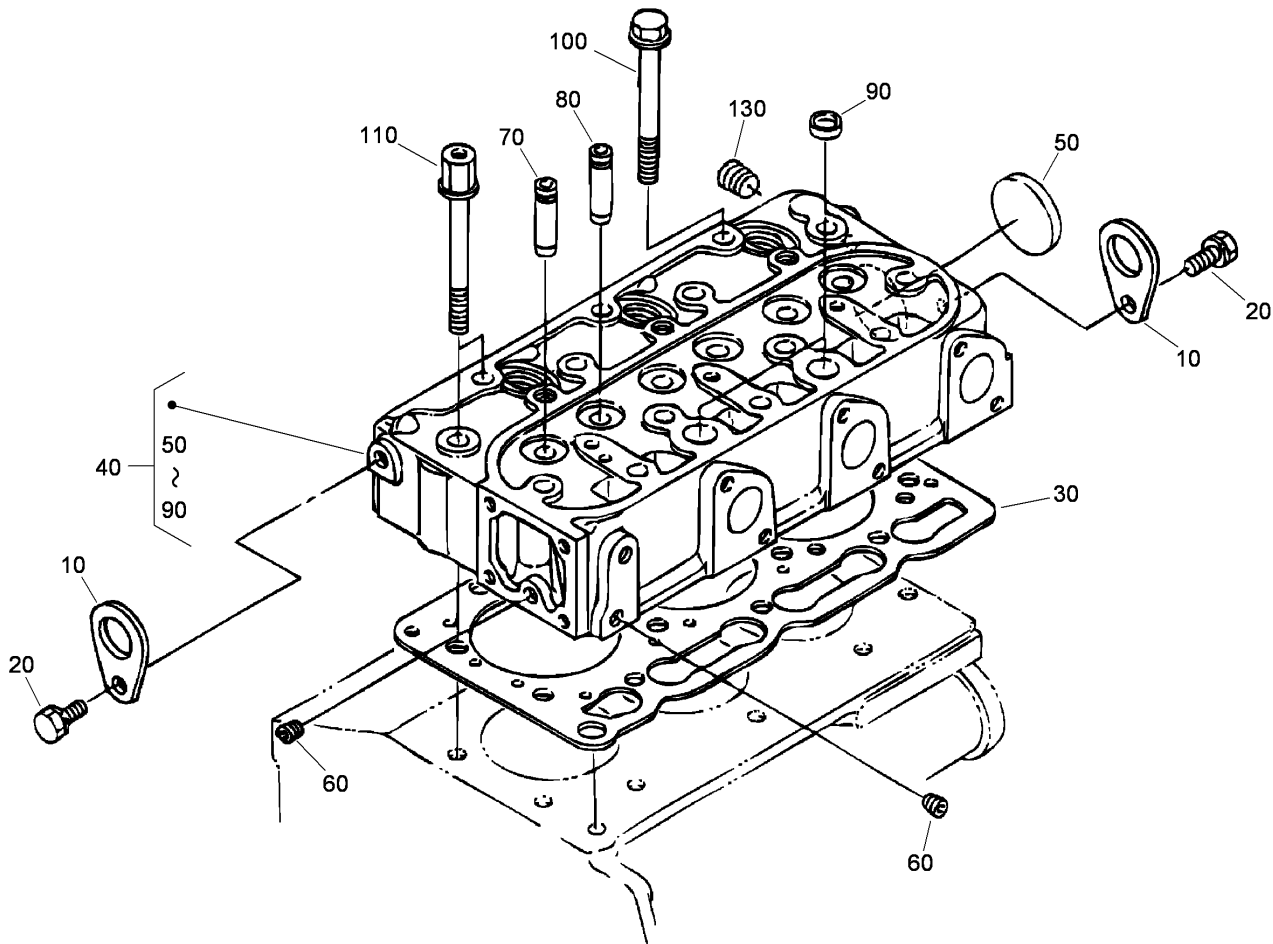
Crankcase Assembly

| 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             |  |  |  |  |



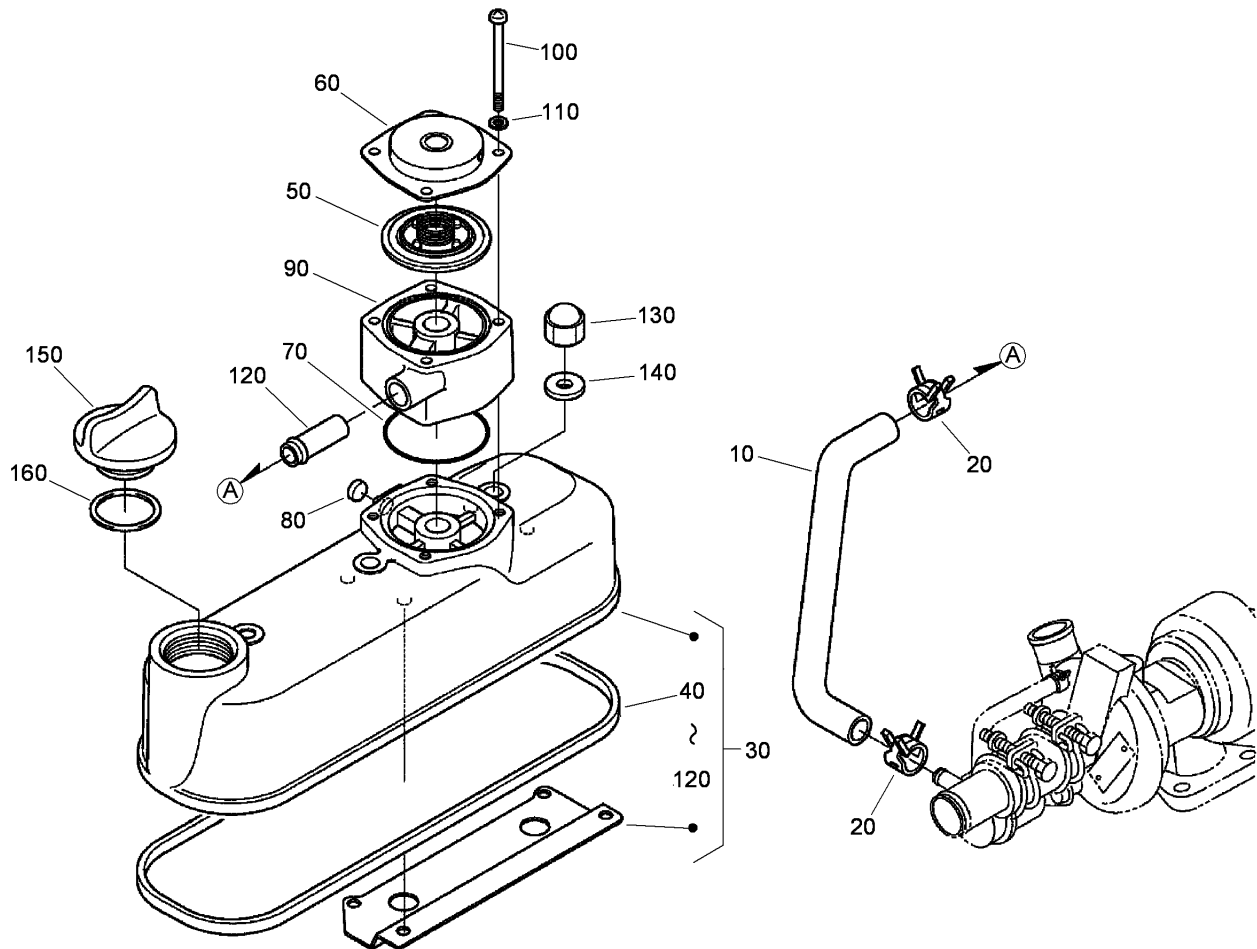
Oil Pan Assembly

| 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       |  |  |  |  |



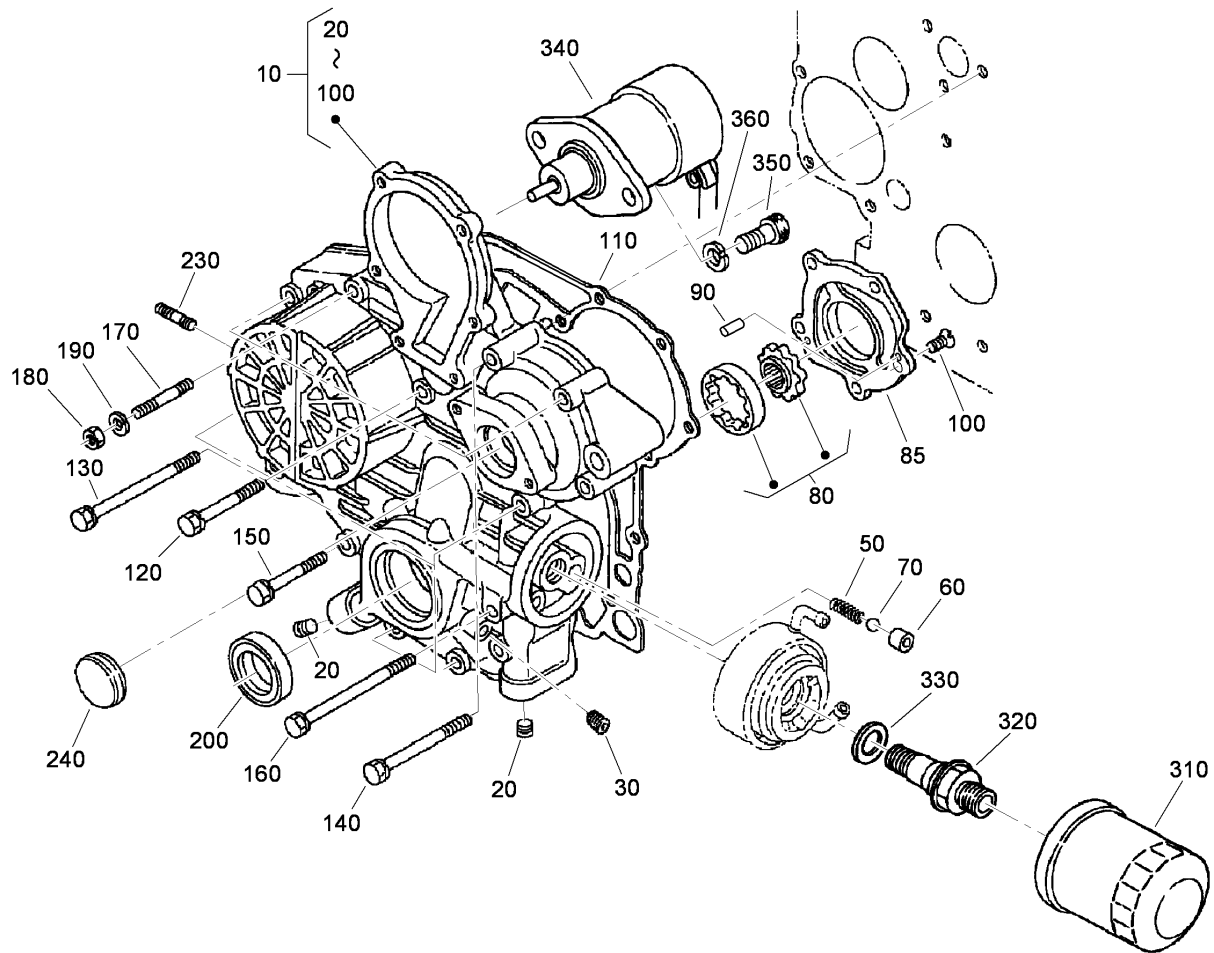
Cylinder Head Assembly

| 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                  |  |  |  |  |



## Head Cover Assembly

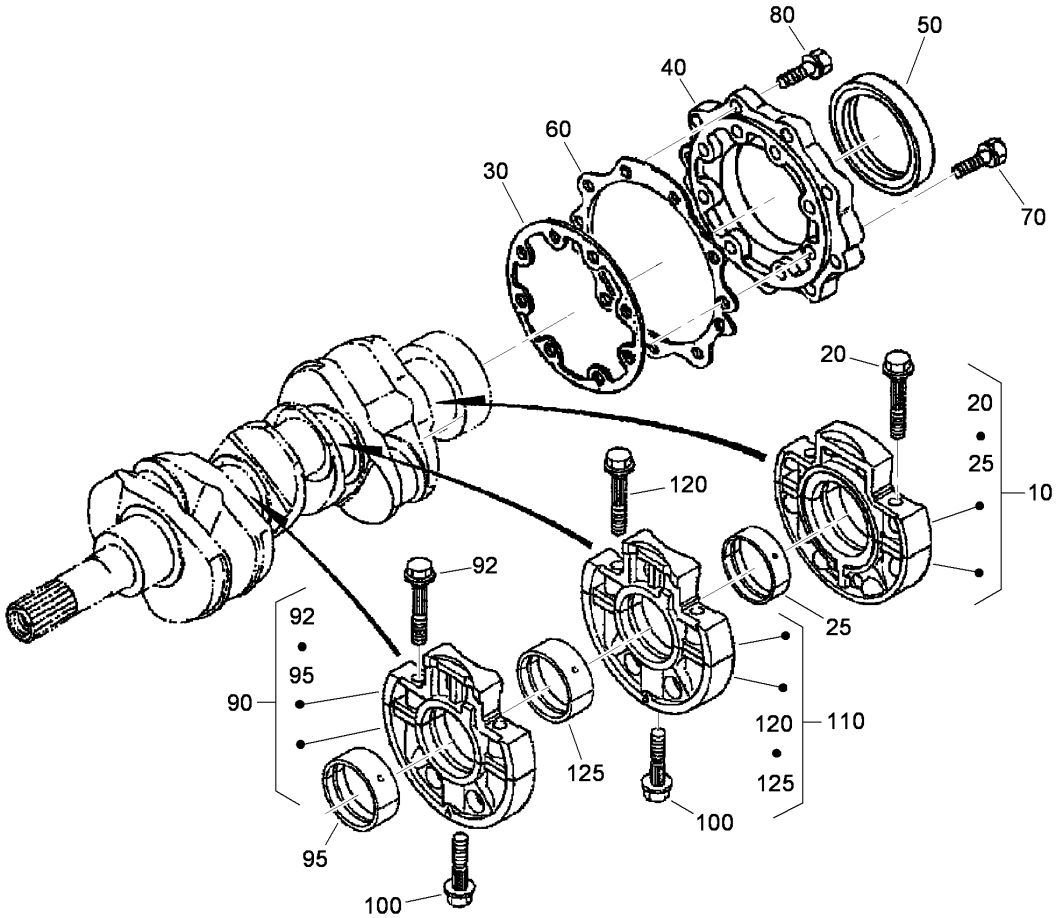
| Ref | Part No. | Qty. | Description              |  |  |  |  |
|-----|----------|------|--------------------------|--|--|--|--|
| 10  | 115-3040 | 1    | Tube-Breather            |  |  |  |  |
| 20  | 108-2859 | 2    | Clamp-Hose               |  |  |  |  |
| 30  | 115-3041 | 1    | Cyl Head Cover ASM       |  |  |  |  |
| 40  | 98-9615  | 1    | Gasket-Cover, Head       |  |  |  |  |
| 50  | 108-2861 | 1    | *obs* Breather Valve ASM |  |  |  |  |
| 60  | 110-3714 | 1    | Cover-Breather           |  |  |  |  |
| 70  | 110-3846 | 1    | O Ring-Breather          |  |  |  |  |
| 80  | 115-3042 | 1    | Cap-Sealing              |  |  |  |  |
| 90  | 115-3043 | 1    | Spacer-Breather          |  |  |  |  |
| 100 | 115-3044 | 4    | Screw-Pan Head           |  |  |  |  |
| 110 | 100-2204 | 4    | Washer-Spring            |  |  |  |  |
| 120 | 98-7766  | 1    | Pipe-Return, Water       |  |  |  |  |
| 130 | 98-9455  | 3    | Nut-Cap                  |  |  |  |  |
| 140 | 98-9454  | 3    | Gasket                   |  |  |  |  |
| 150 | 107-9075 | 1    | Plug-Filler, Oil         |  |  |  |  |
| 160 | 99-3446  | 1    | O-Ring                   |  |  |  |  |



**Gear Case Assembly**

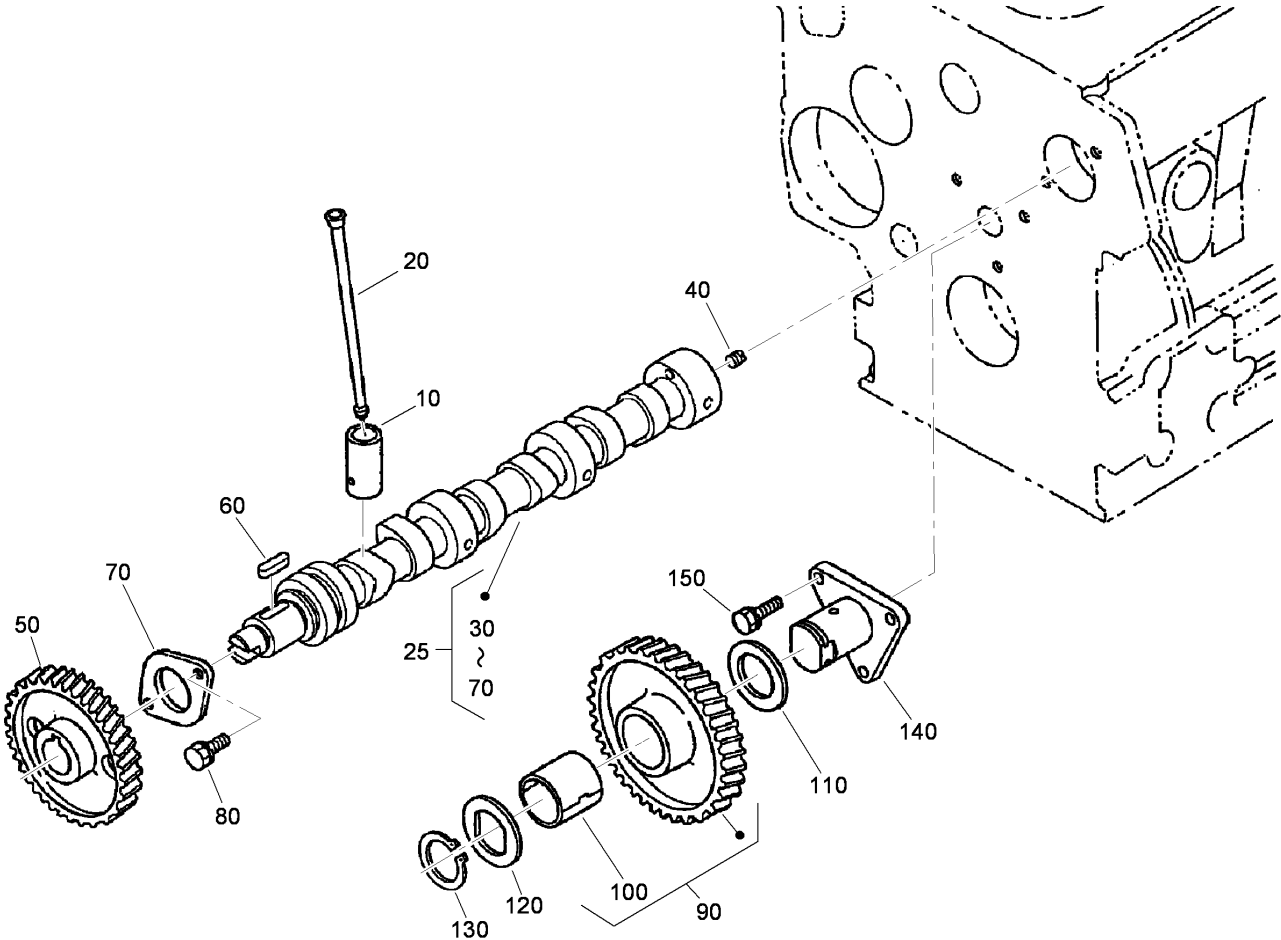
| Ref | Part No. | Qty. | Description        |
|-----|----------|------|--------------------|
| 10  | 115-4111 | 1    | Gear Case-Complete |
| 20  | 98-9598  | 2    | Plug               |
| 30  | 98-7487  | 1    | Plug               |
| 50  | 98-9544  | 1    | Spring             |
| 60  | 98-9543  |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



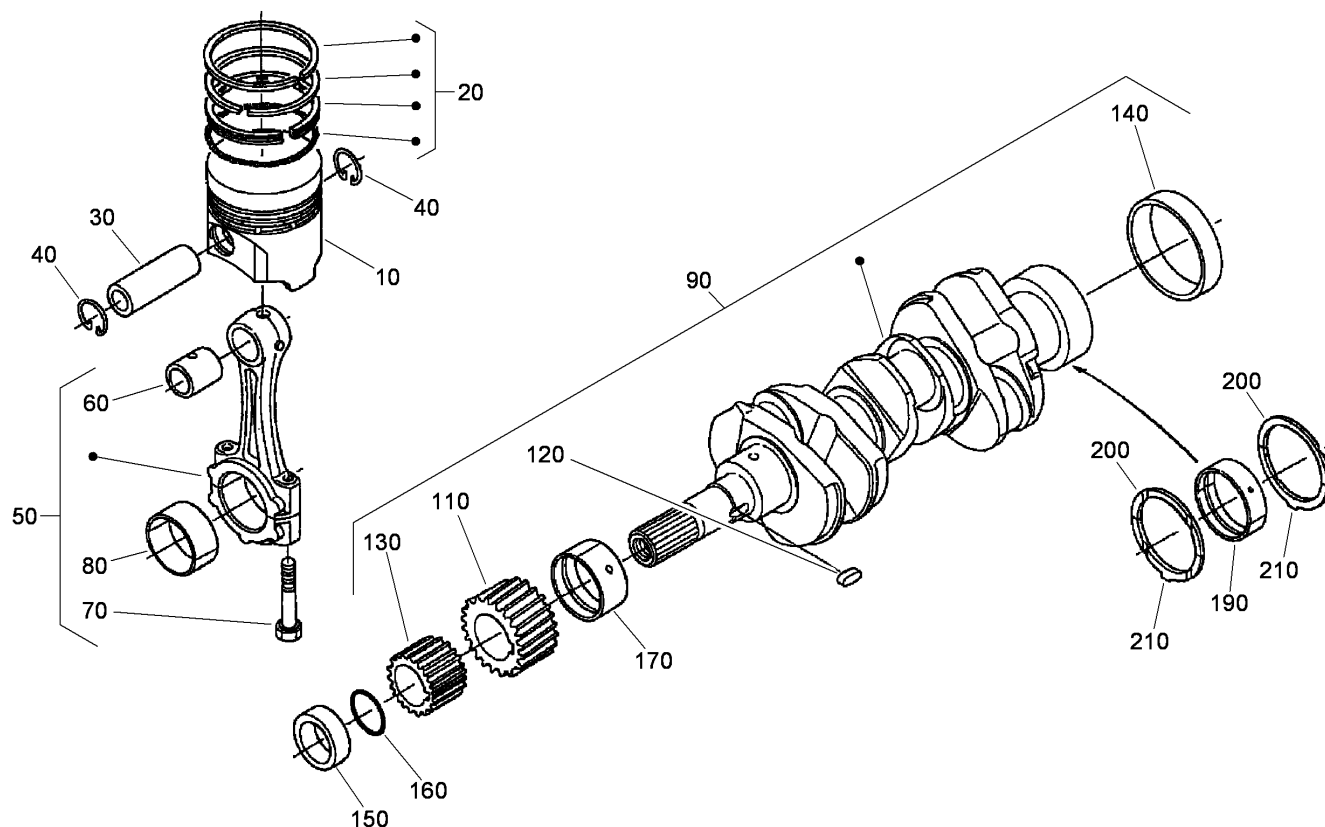
Main Bearing Case Assembly

| 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

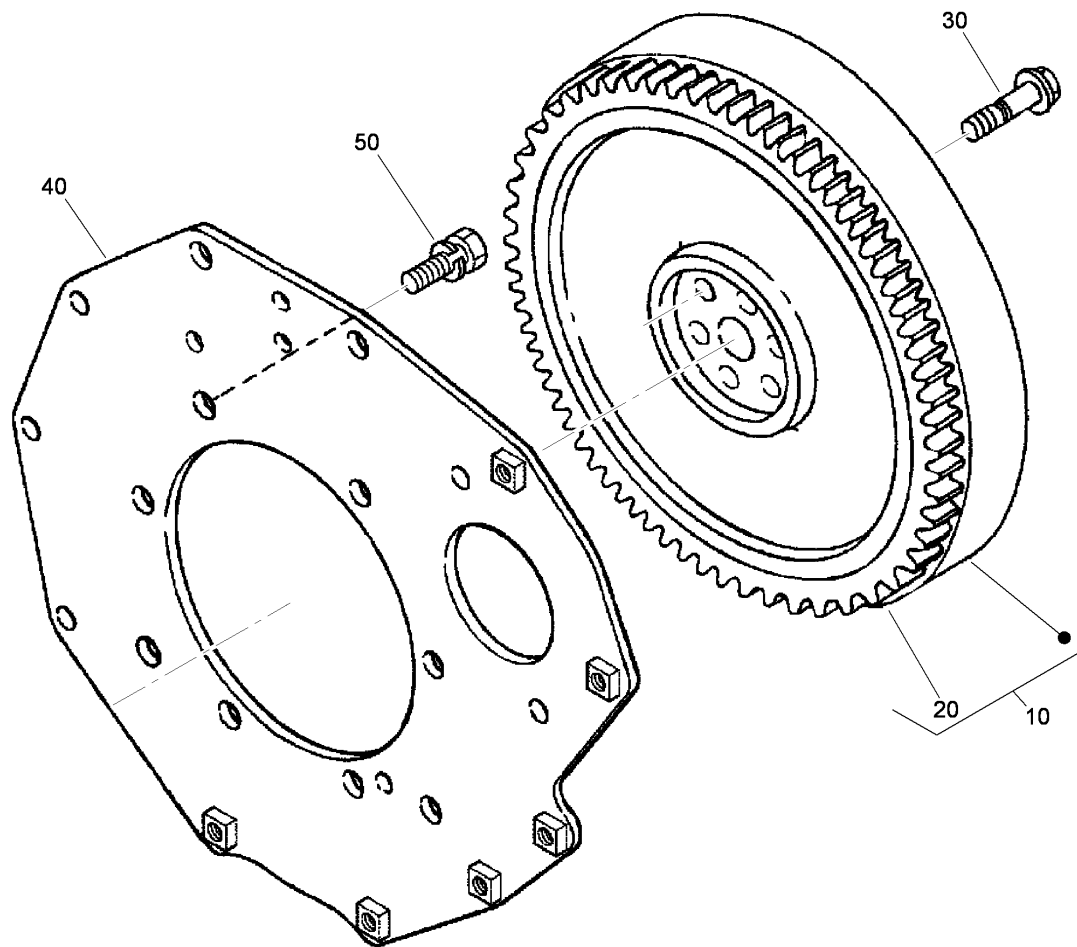
| Ref | Part No. | Qty. | Description        |  |  |  |  |
|-----|----------|------|--------------------|--|--|--|--|
| 10  | 112-0185 | 6    | Tappet             |  |  |  |  |
| 20  | 98-9509  | 6    | Rod-Push           |  |  |  |  |
| 25  | 112-7029 | 1    | Camshaft ASM       |  |  |  |  |
| 30 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

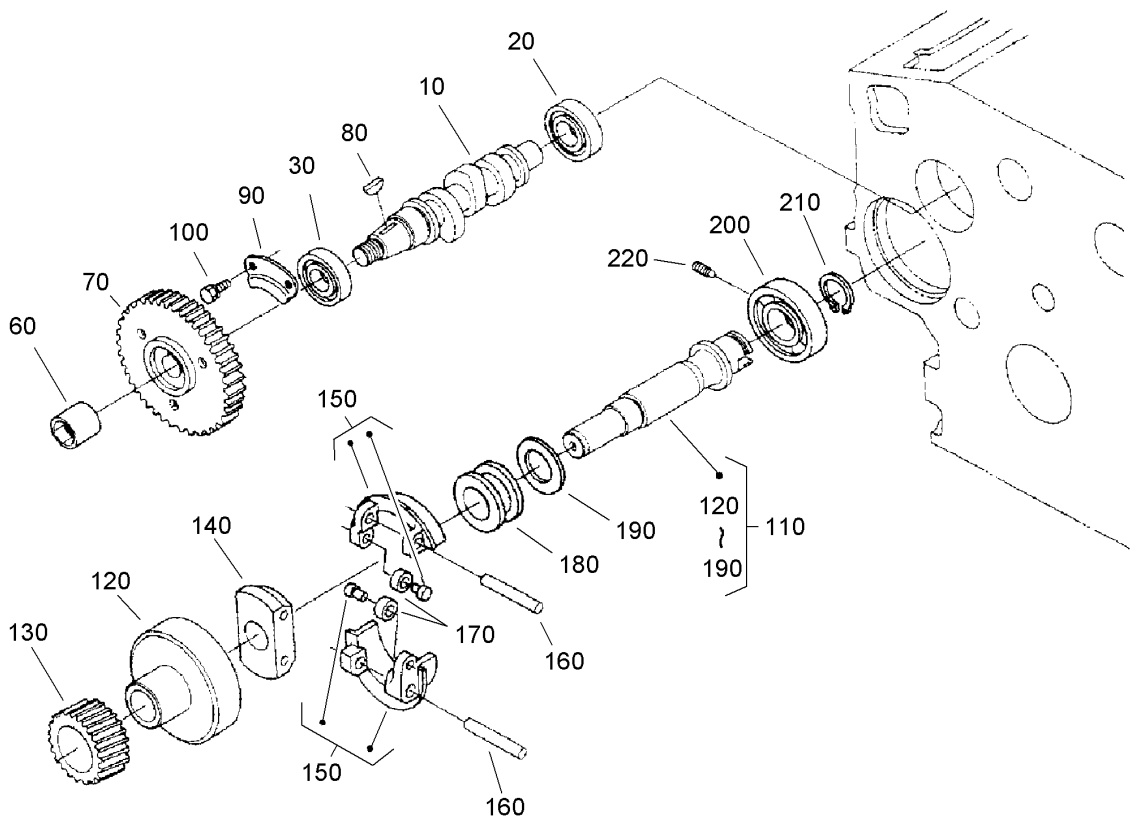
| Ref  | Part No. | Qty. | Description             |
|------|----------|------|-------------------------|
| 10   | 98-9550  | 3    | Piston (STD)            |
| 10   | 108-1417 | 3    | Piston, 0.5Mm           |
| 20   | 98-9551  | 3    | Piston Ring ASM (STD)   |
| 20   | 108-1404 | 3    | Piston Ring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



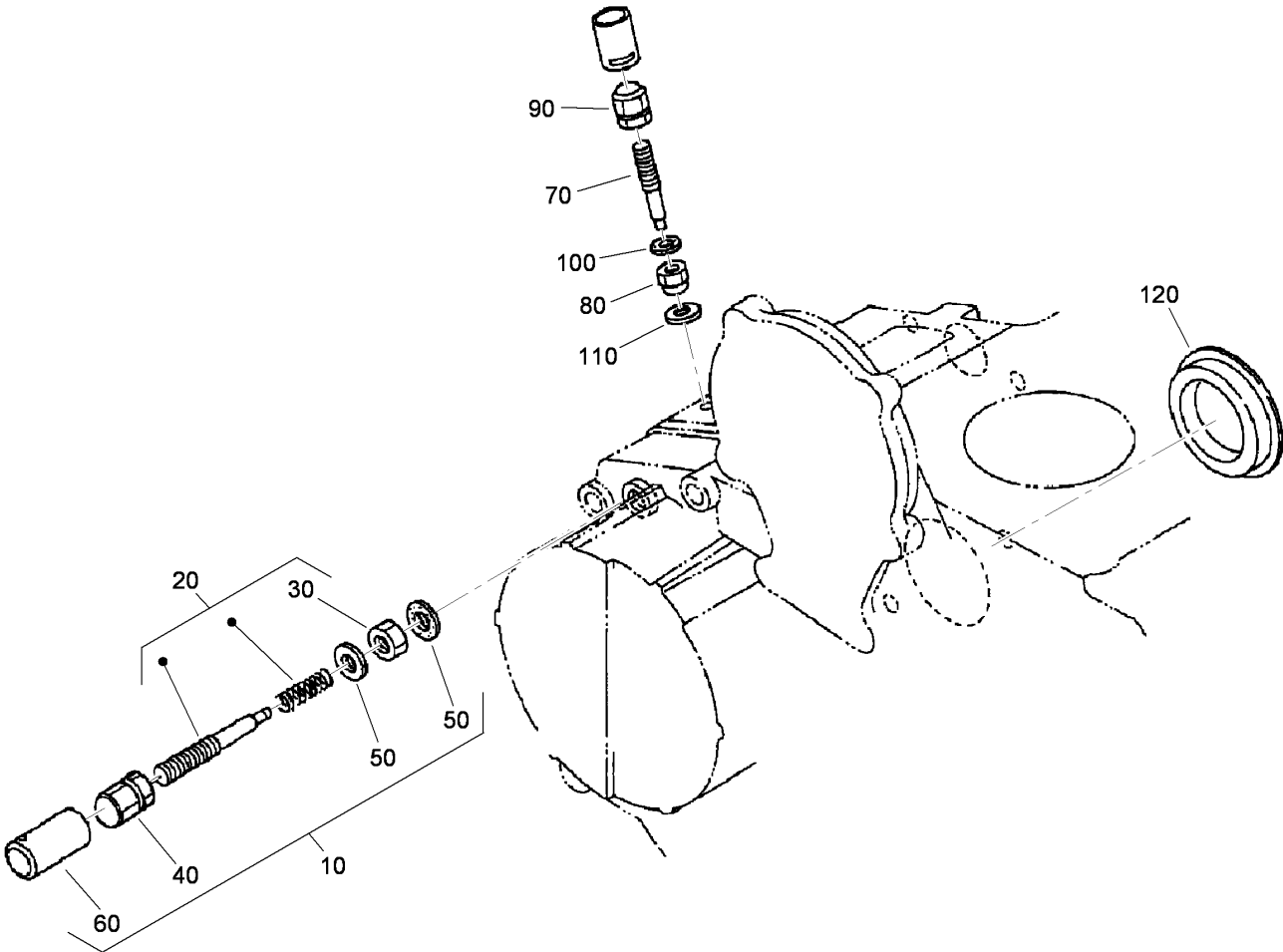
## Flywheel Assembly

| 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            |  |  |  |  |



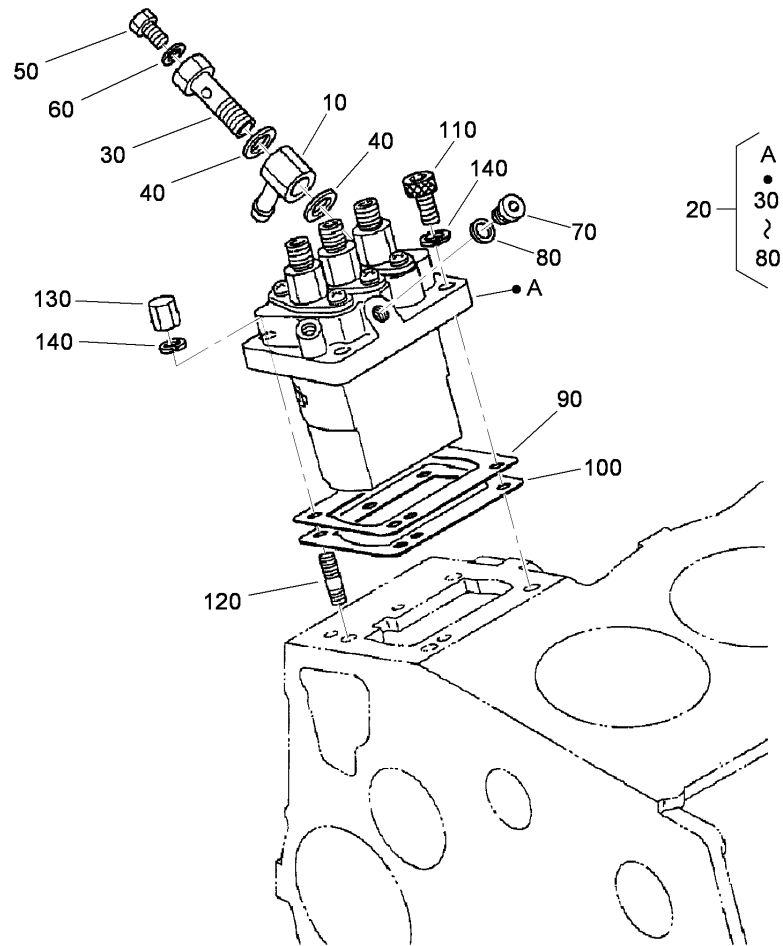
### Fuel Camshaft and Governor Shaft Assembly

| 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               |  |  |  |  |



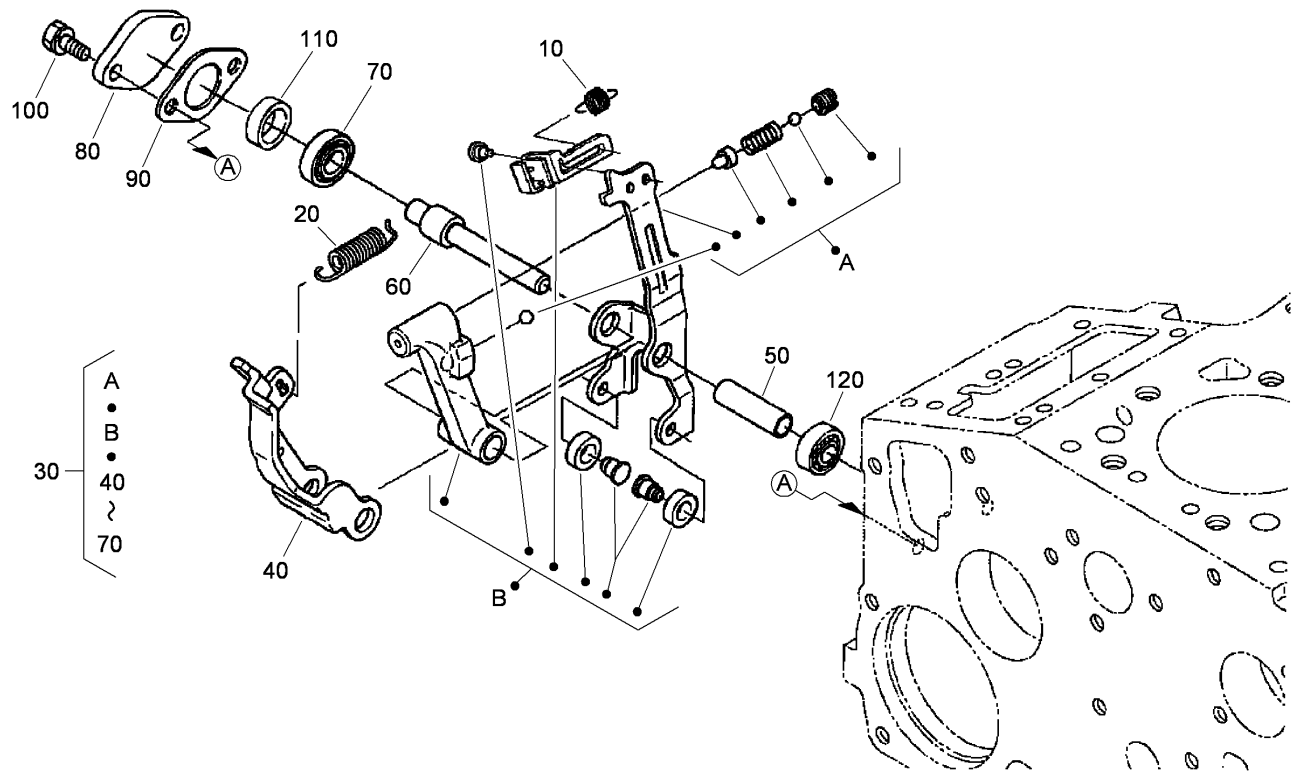
Idle Apparatus Assembly

| 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         |  |  |  |  |



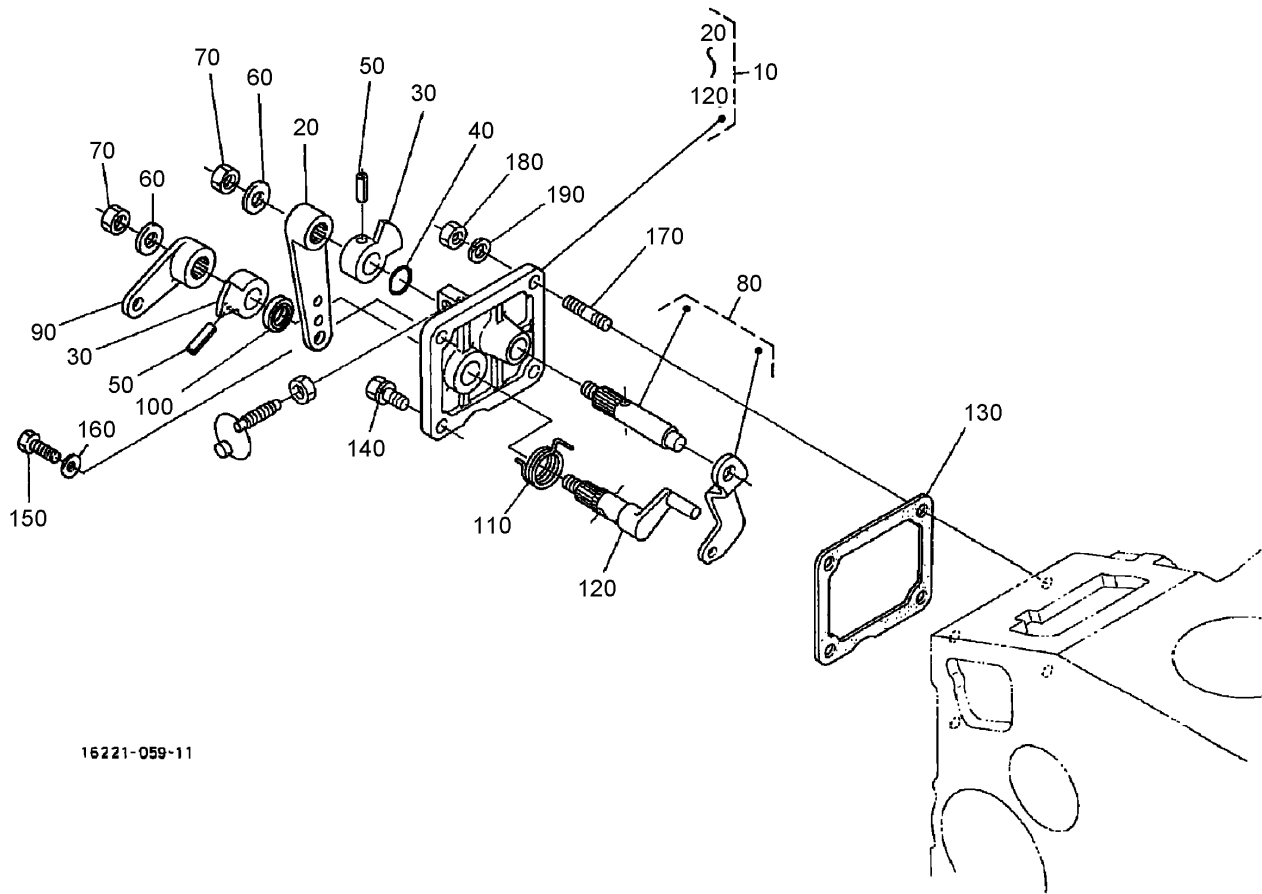
Injection Pump Assembly

| 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**

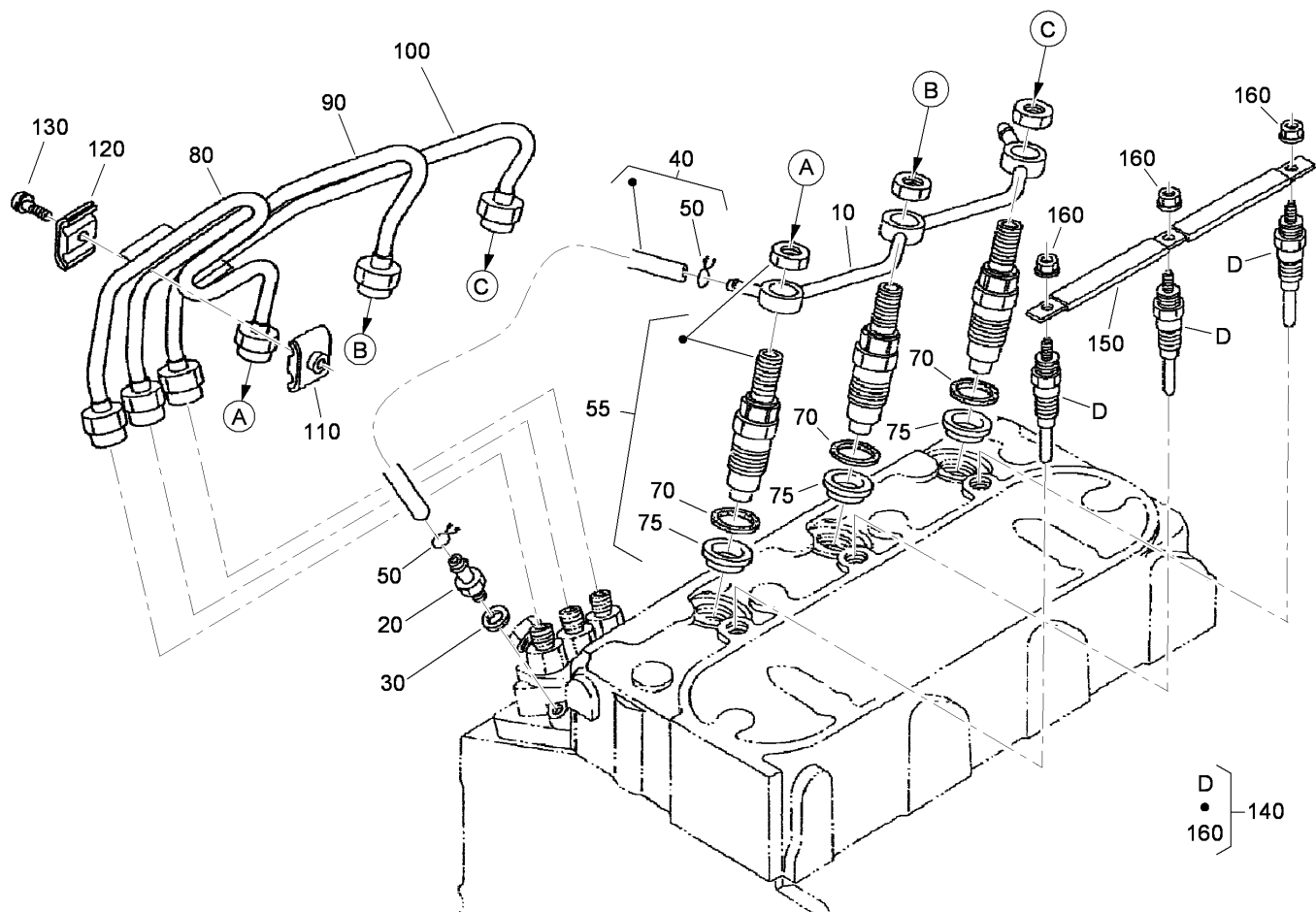
| Ref | Part No. | Qty. | Description             |  |  |  |  |
|-----|----------|------|-------------------------|--|--|--|--|
| 10  | 105-3786 | 1    | Spring-Start            |  |  |  |  |
| 20  | 98-9681  | 1    | Spring-Governor         |  |  |  |  |
| 30  | 107-9082 | 1    | Fork Lever ASM          |  |  |  |  |
| 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     |  |  |  |  |



16221-059-11

### Speed Control Plate Assembly

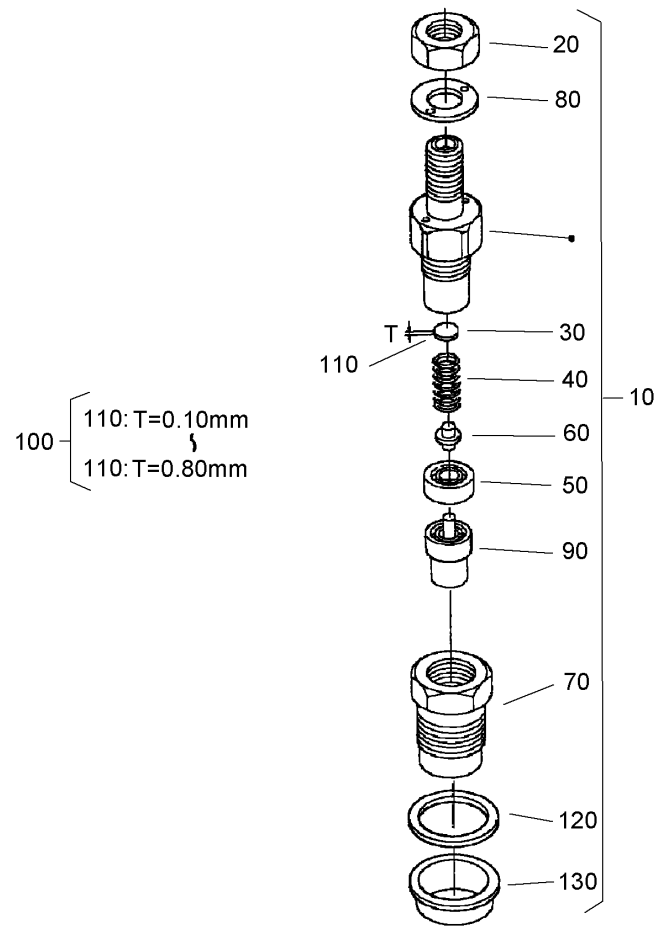
| Ref | Part No. | Qty. | Description          |  |  |  |  |
|-----|----------|------|----------------------|--|--|--|--|
| 10  | 105-3735 | 1    | Control Plate ASM    |  |  |  |  |
| 20  | 98-9662  | 1    | Lever-Control, Speed |  |  |  |  |
| 30  | 98-9572  | 2    | Lever-Control, Speed |  |  |  |  |
| 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

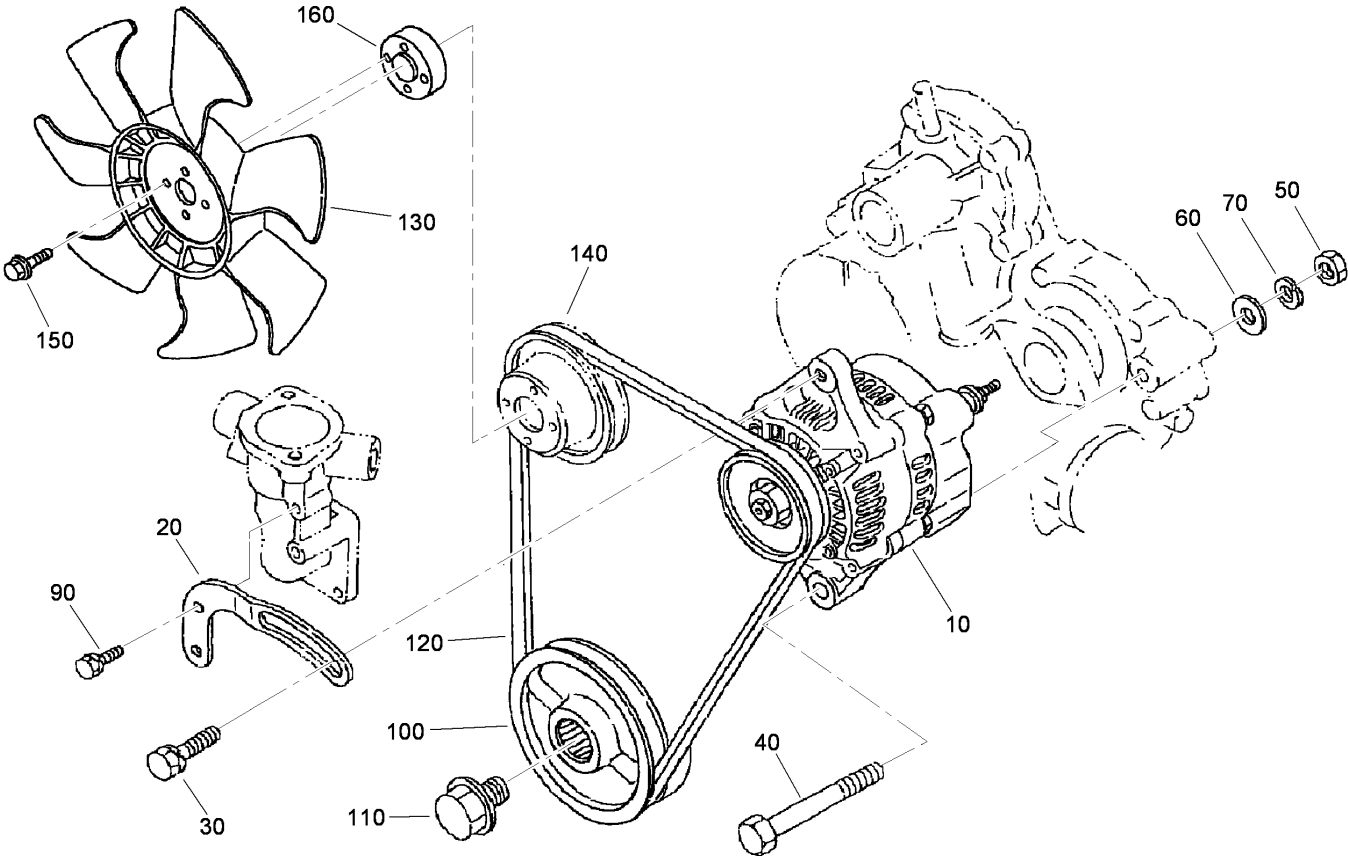
| Ref | Part No. | Qty. | Description        |
|-----|----------|------|--------------------|
| 10  | 98-9621  | 1    | Overflow Pipe ASM  |
| 20  | 98-9431  | 1    | Screw-Bleeder, Air |
| 30  | 98-7654  | 1    | Gasket             |
| 40  | 98-9624  | 1    | Overflow Pipe ASM  |
| 50  | 98-7671  | 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         |

|  |  |  |  |
|--|--|--|--|
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|  |  |  |  |



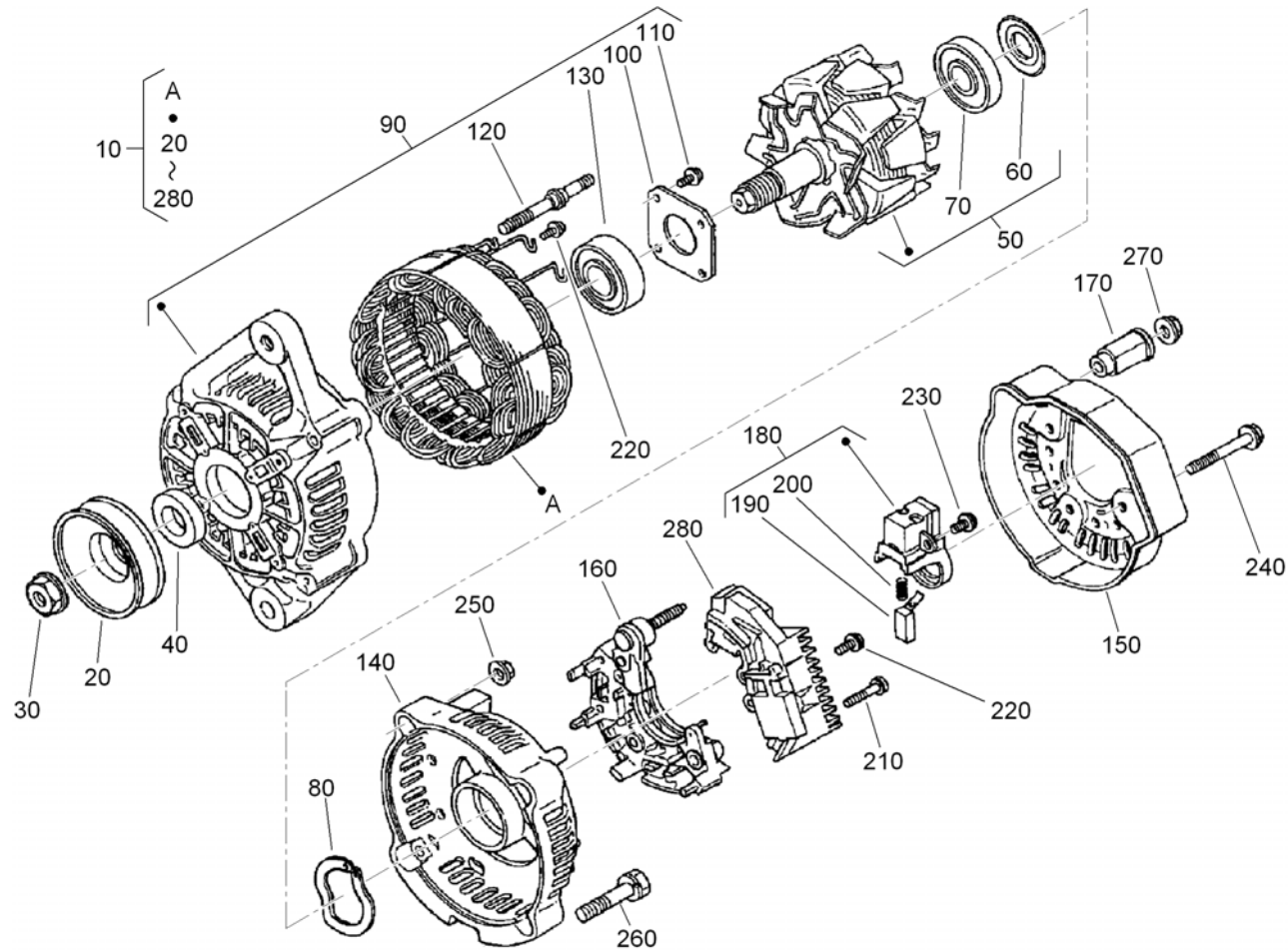
Nozzle Holder Assembly

| 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

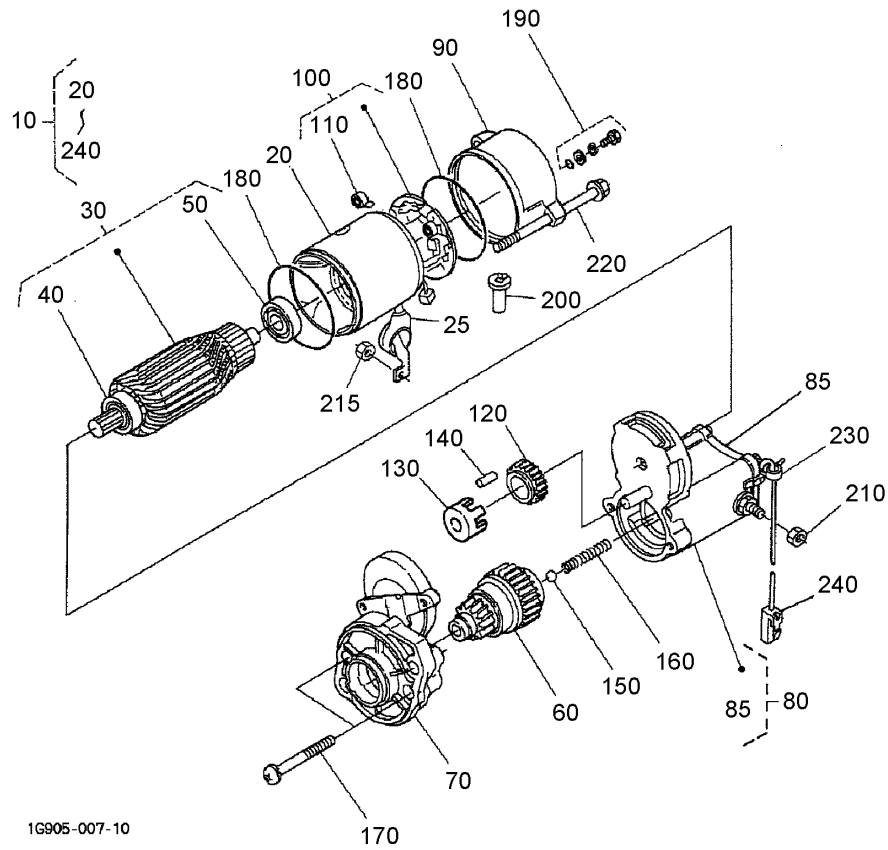
| Ref | Part No.  | Qty. | Description       |  |  |  |  |
|-----|-----------|------|-------------------|--|--|--|--|
| 10  | 98-9474   | 1    | Alternator ASM    |  |  |  |  |
| 20  | 112-7047  | 1    | Stay-Dynamo       |  |  |  |  |
| 30  | 108-7088  | 1    | Bolt              |  |  |  |  |
| 40 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

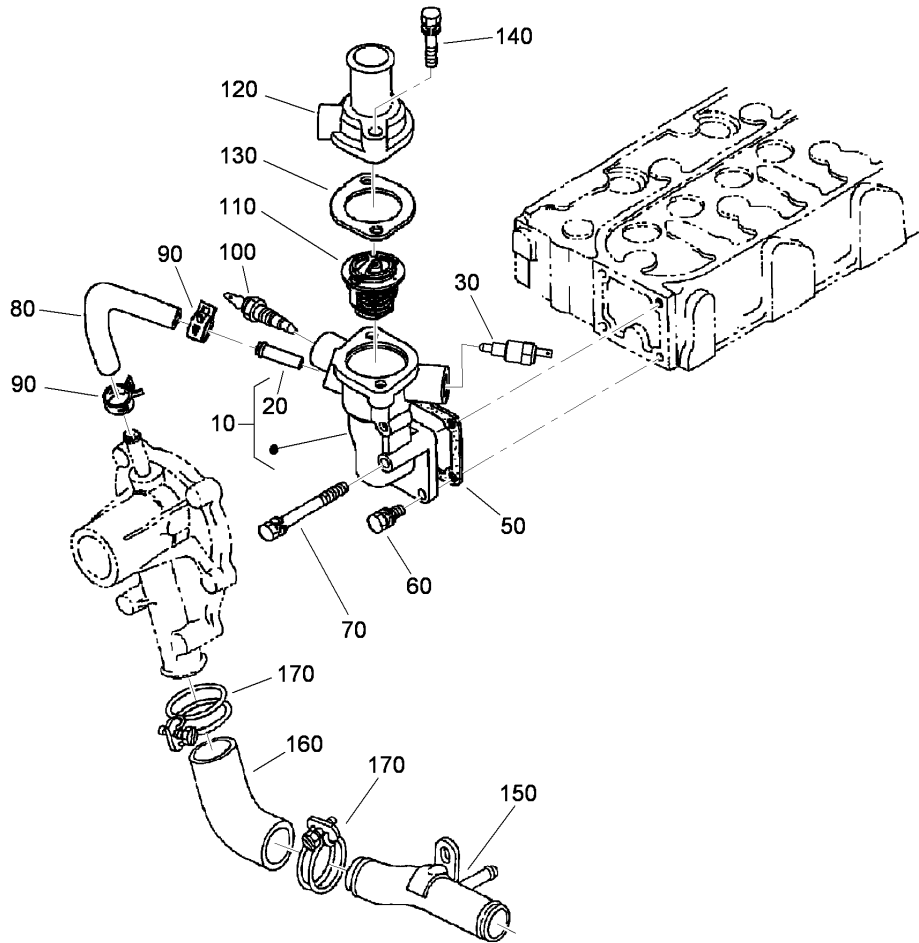
| Ref | Part No. | Qty. | Description   |
|-----|----------|------|---------------|
| 250 | 98-7730  | 2    | Nut           |
| 260 | 98-7731  | 2    | Bolt          |
| 270 | 98-7732  | 1    | Nut           |
| 280 | 110-3799 | 1    | Regulator ASM |



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

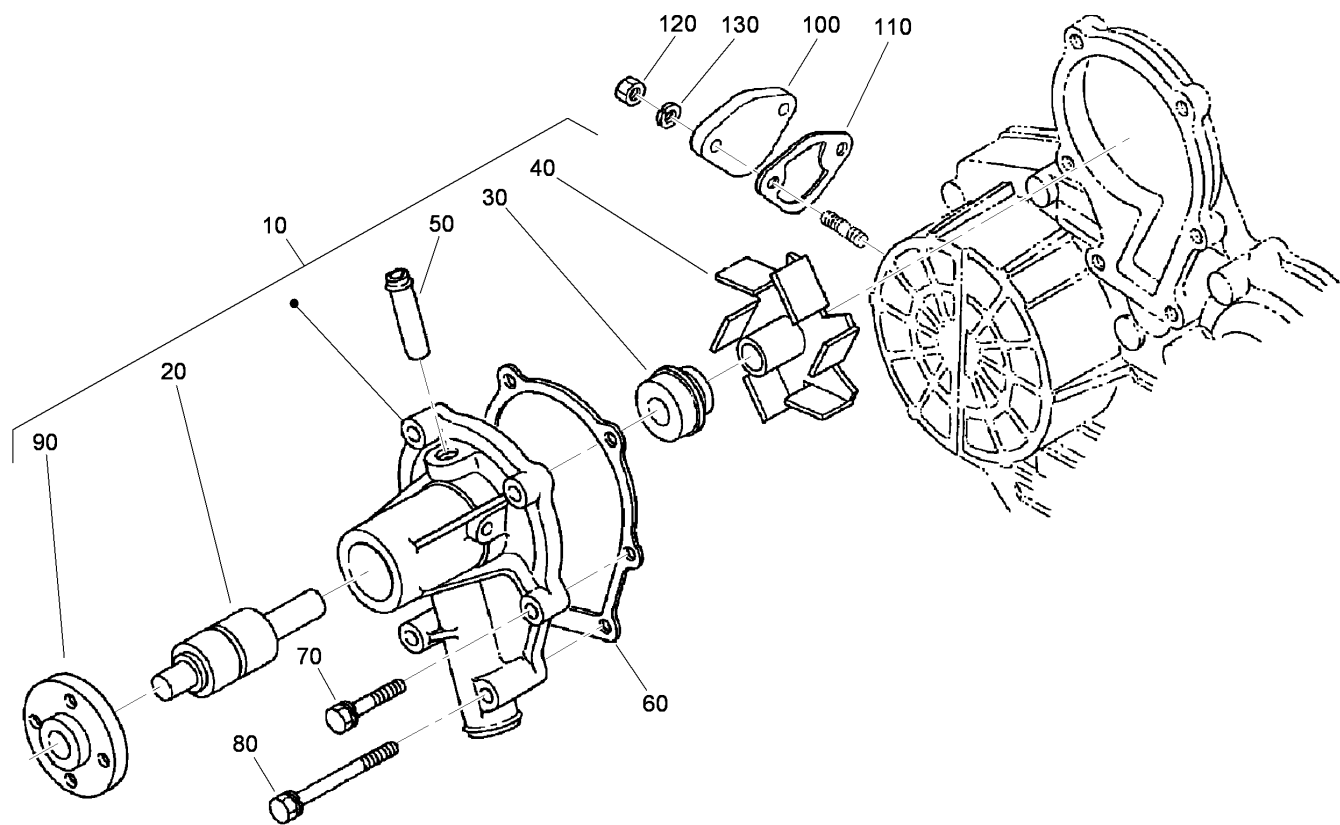
| Ref | Part No. | Qty. | Description          |
|-----|----------|------|----------------------|
| 10  | 98-9705  | 1    | Starter ASM          |
| 20  | 104-8608 | 1    | Yoke ASM             |
| 25  | 99-8375  | 1    | Cover                |
| 30  | 98-7742  | 1    | Armature ASM         |
| 40  | 98-7744  | 1    | Bearing              |
| 50  | 98-7743  | 1    | Bearing              |
| 60  | 99-8373  | 1    | Clutch-Running, Over |
| 70  | 99-8374  | 1    | Frame-End, Drive     |
| 80  | 105-3746 | 1    | Magnetic Switch ASM  |
| 85  | 105-2886 | 1    | Cover ASM            |
| 90  | 98-7748  | 1    | Frame-End            |
| 100 | 98-7749  | 1    | Brush Holder ASM     |
| 110 | 98-7750  | 4    | Spring-Brush         |
| 120 | 98-7751  | 1    | Gear                 |
| 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              |

| Ref | Part No. | Qty. | Description         |
|-----|----------|------|---------------------|
| 220 | 100-9240 | 2    | Bolt                |
| 230 | 98-9712  | 1    | Band-Cover          |
| 240 | 98-9711  | 1    | Cord-Solenoid, Stop |



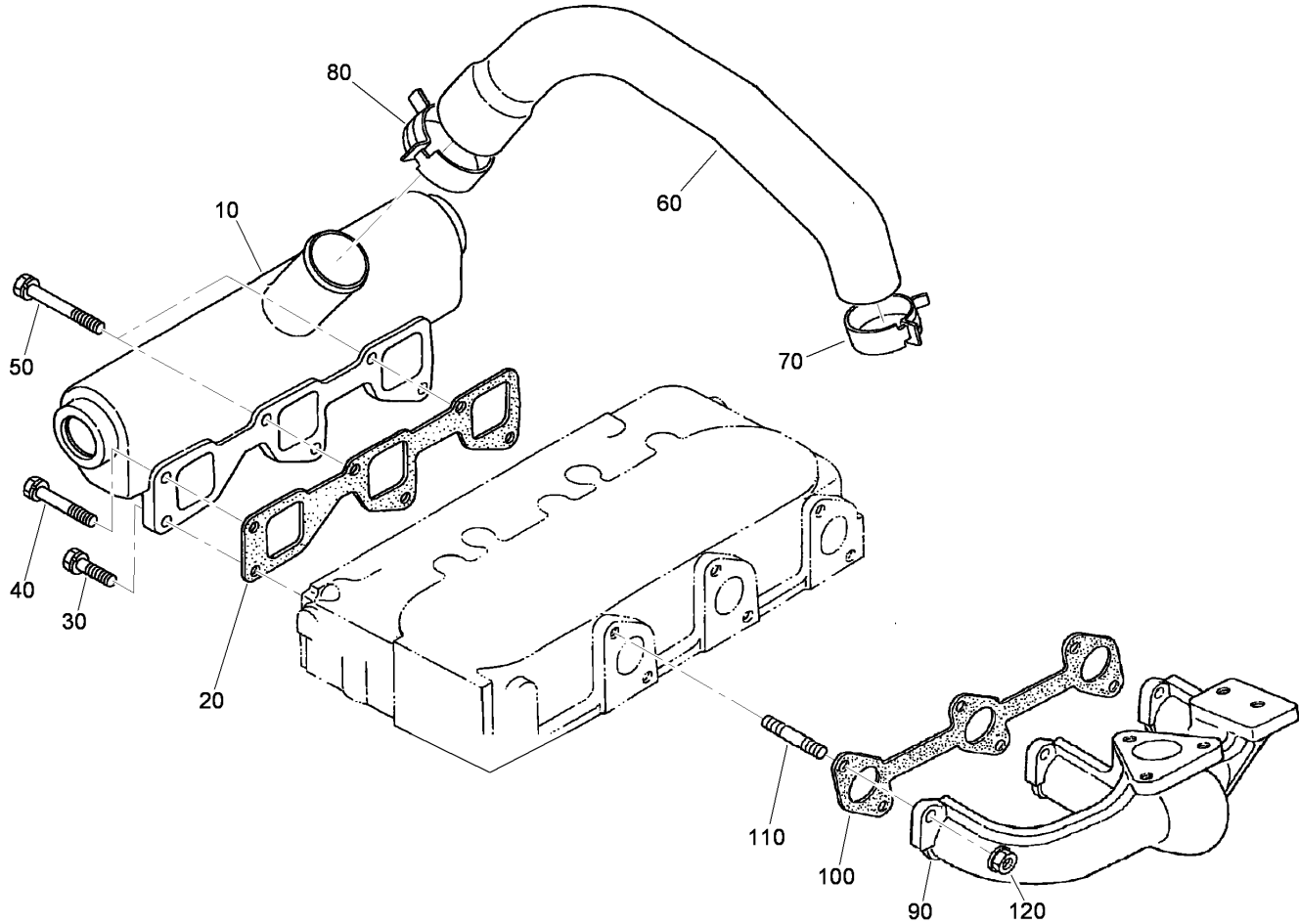
Water Flange and Thermostat Assembly

| Ref | Part 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                |  |  |  |  |



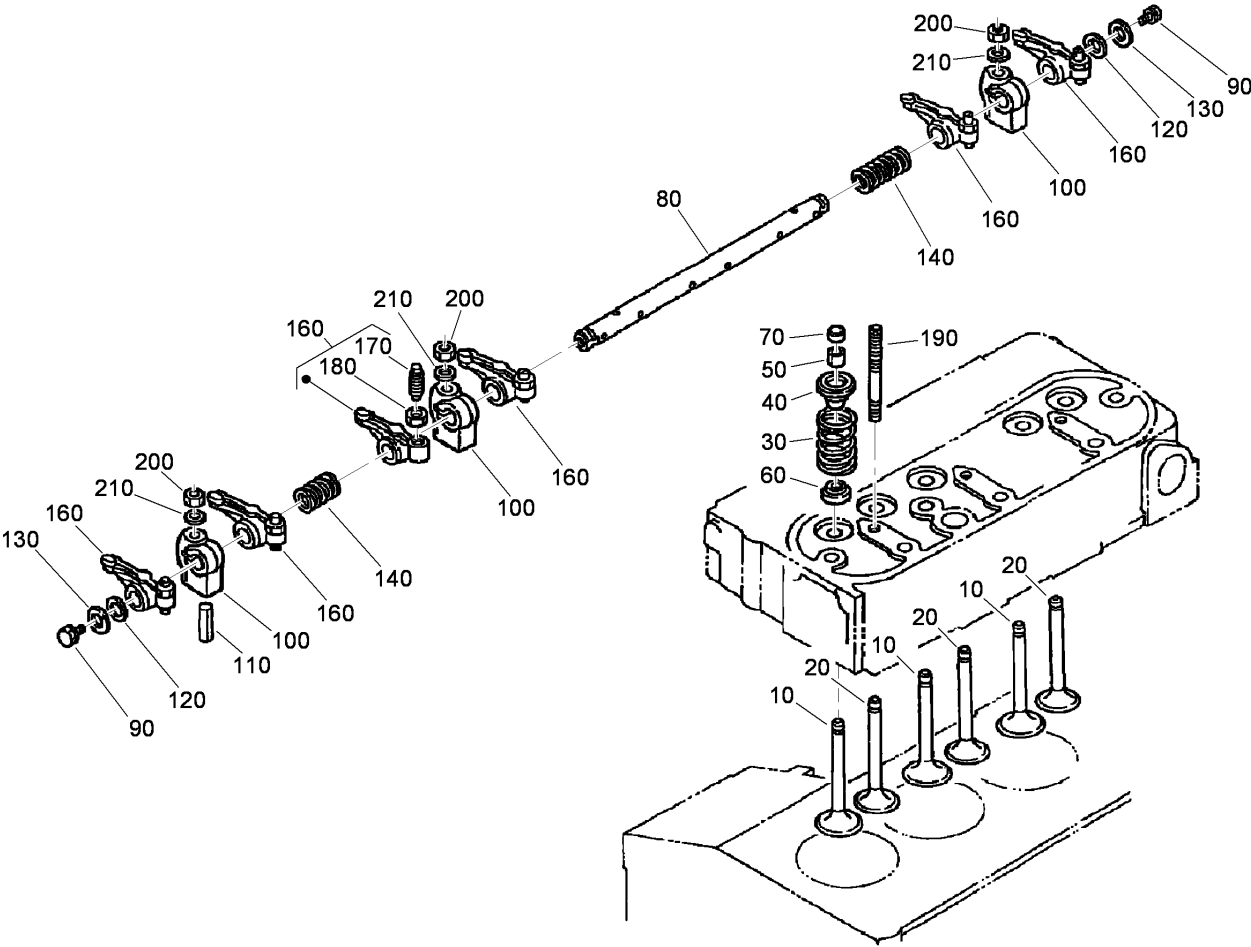
Water Pump Assembly

| 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        |  |  |  |  |



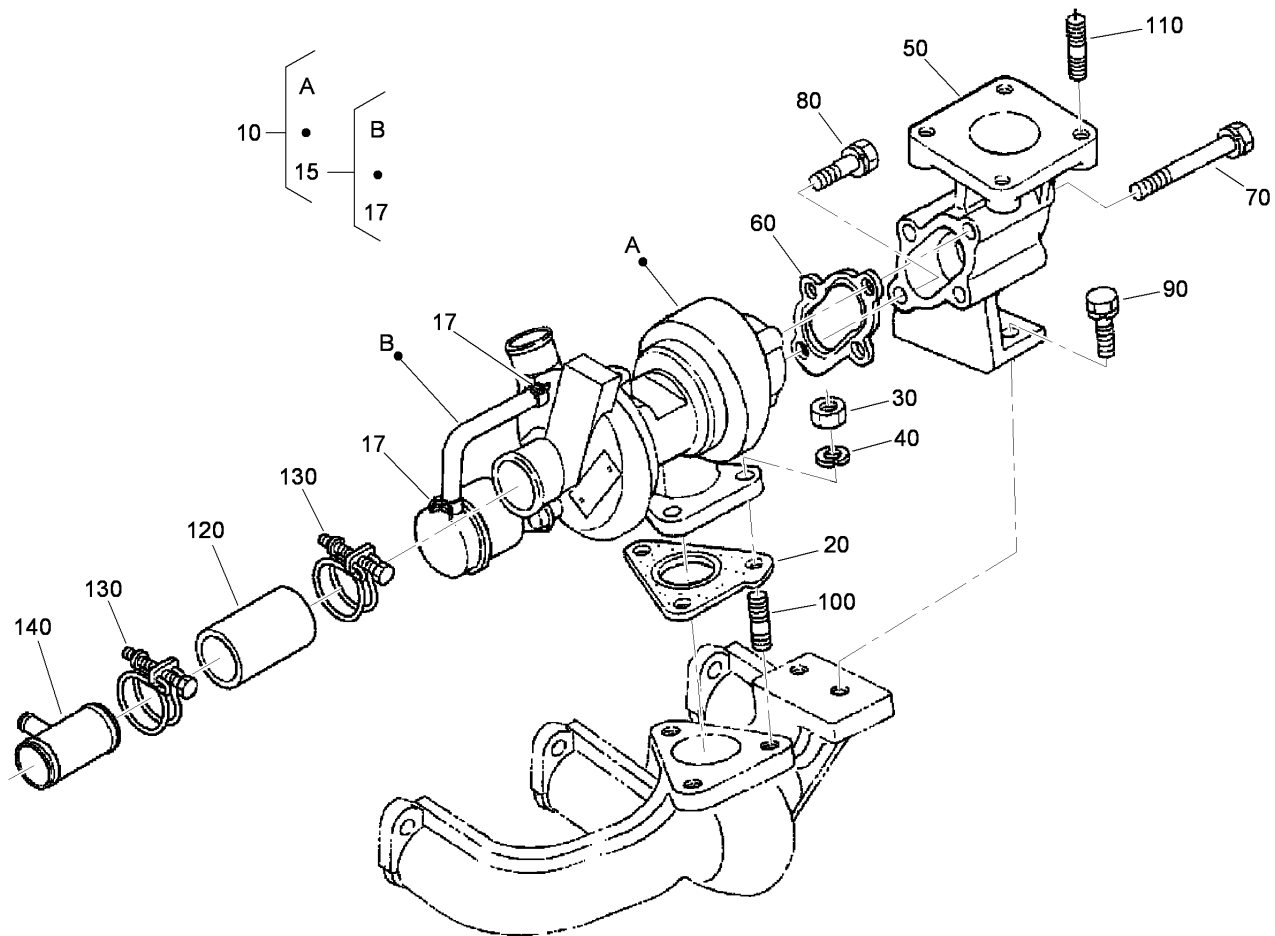
**Inlet and Exhaust Manifold Assembly**

| 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                      |  |  |  |  |



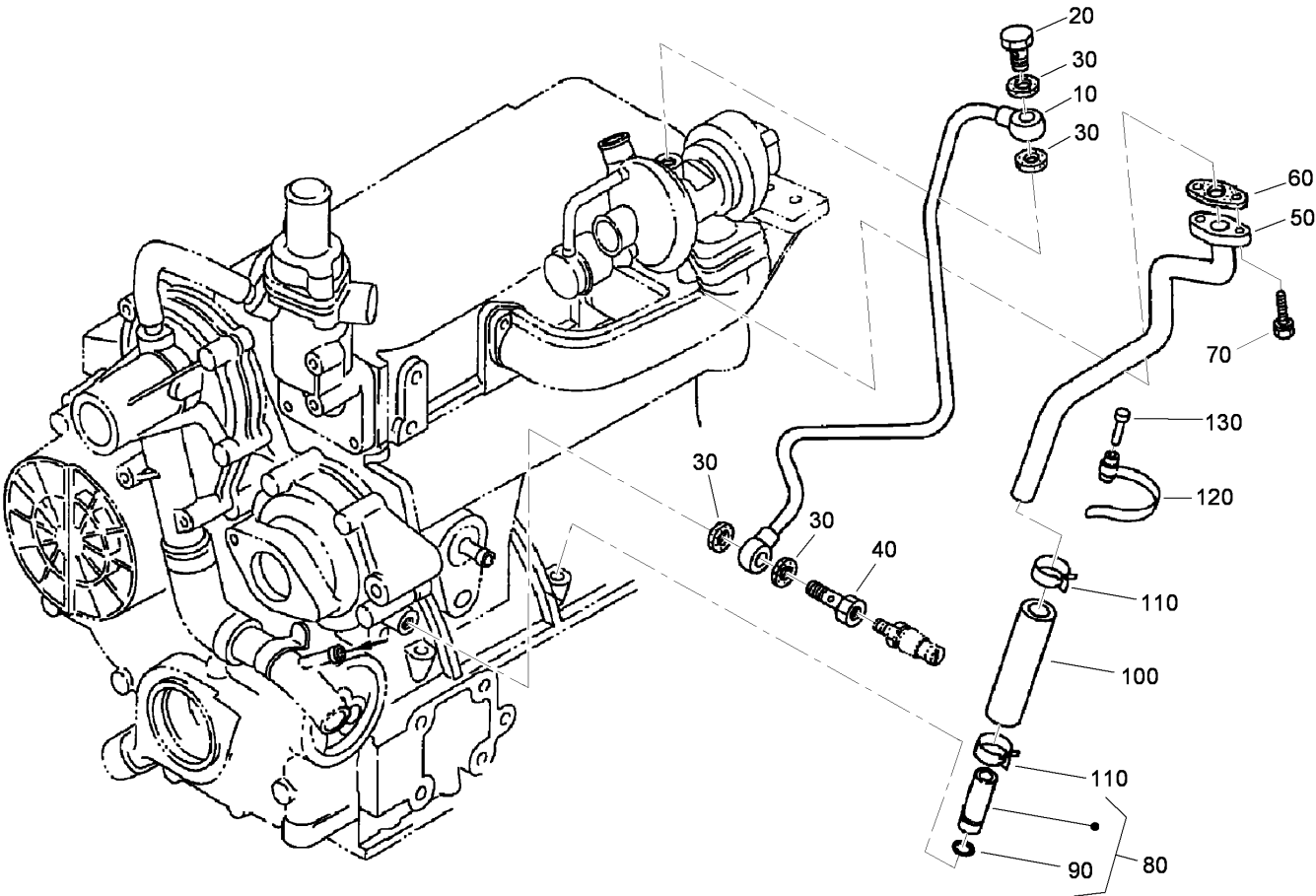
# Valve and Rocker Arm Assembly

| 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              |  |  |  |  |



**Turbo Charger Assembly**

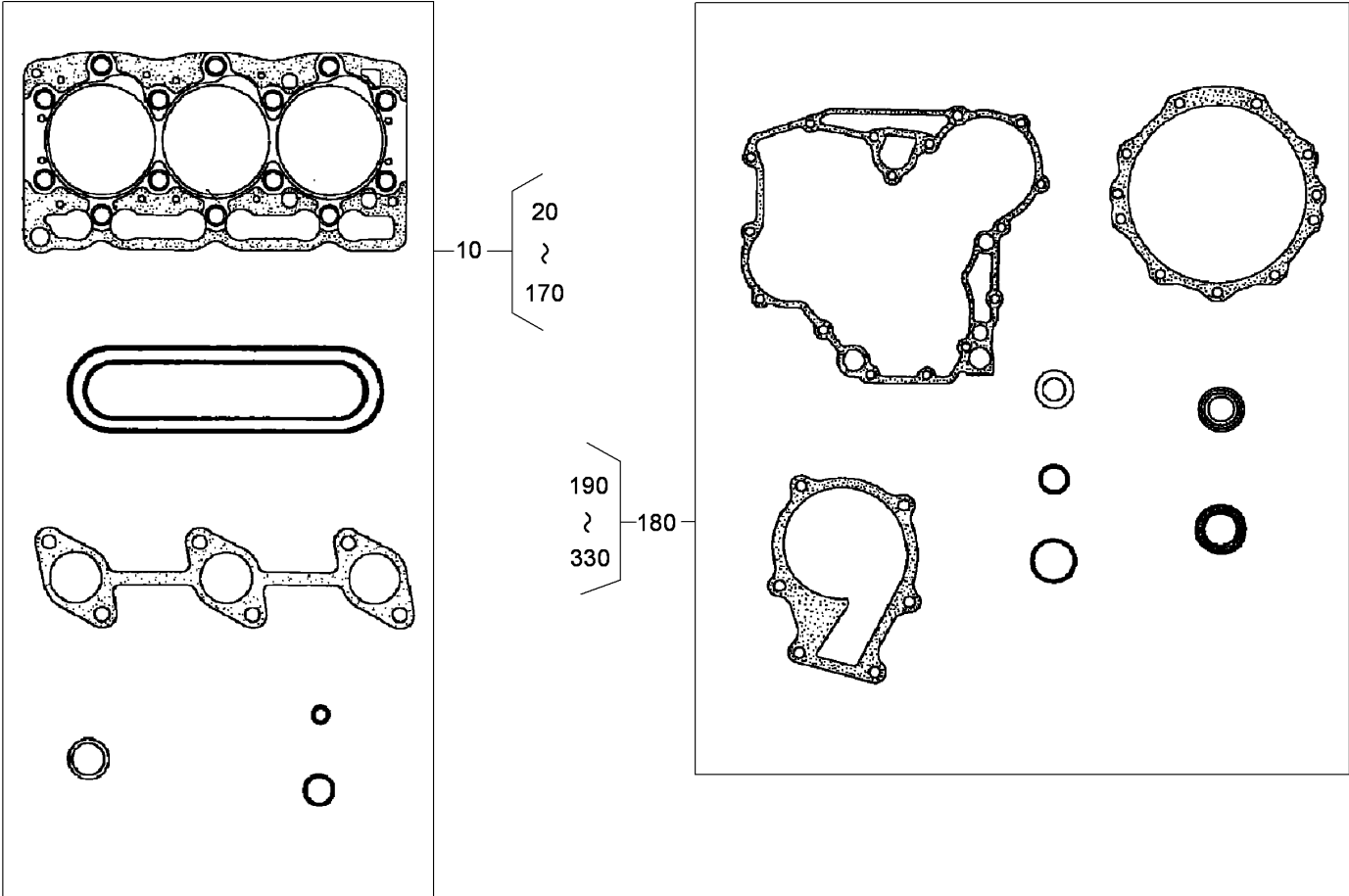
| Ref | Part No. | Qty. | Description          |  |  |  |  |
|-----|----------|------|----------------------|--|--|--|--|
| 10  | 108-1412 | 1    | Turbo Charger ASM    |  |  |  |  |
| 15  | 108-1413 | 1    | Hose ASM             |  |  |  |  |
| 17  | 108-1414 | 2    | Clamp-Hose           |  |  |  |  |
| 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        |  |  |  |  |

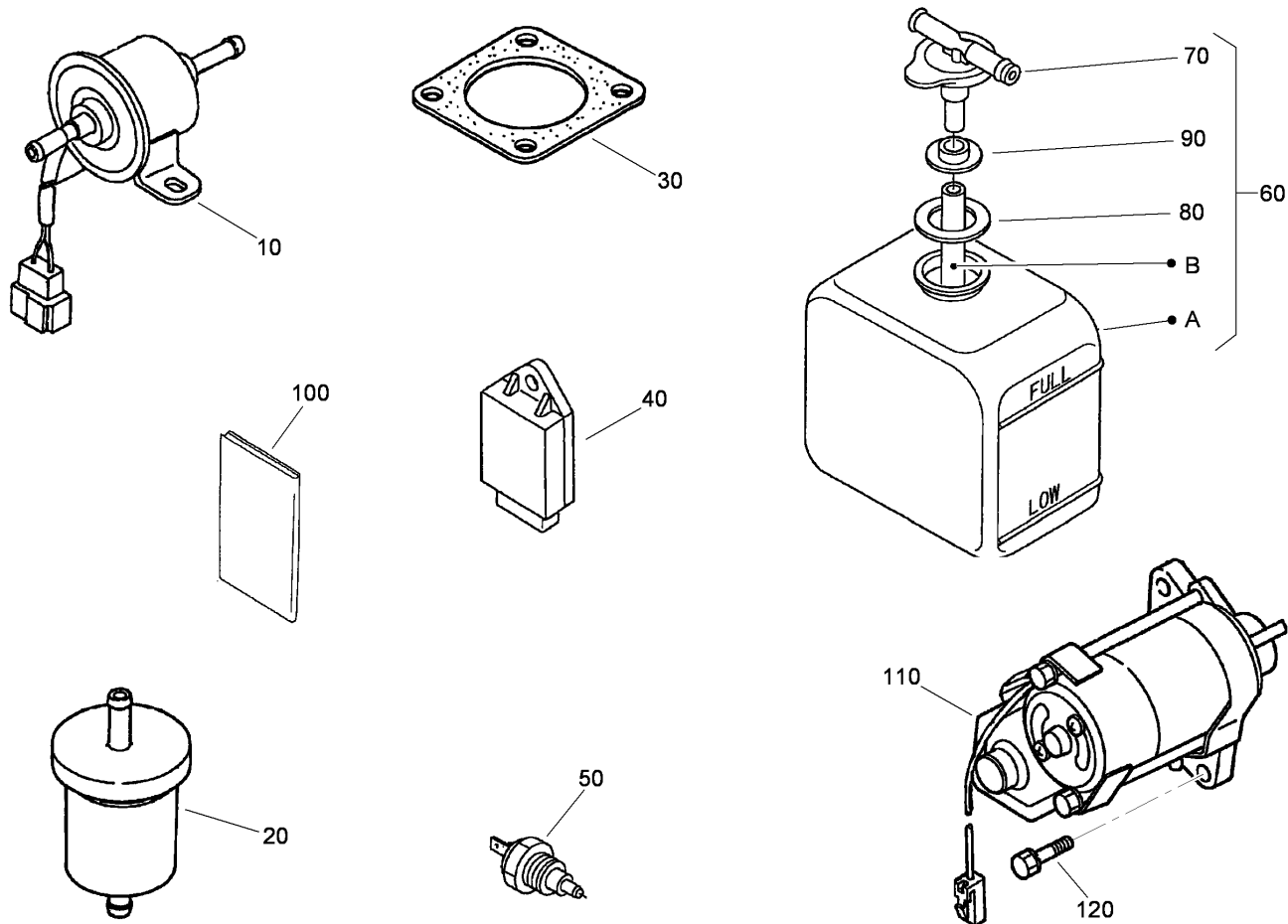




Gasket Kit

| 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                |  |  |  |  |

