



## Groundsmaster® 3505-D

Model No. 30826 - 270000001 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.

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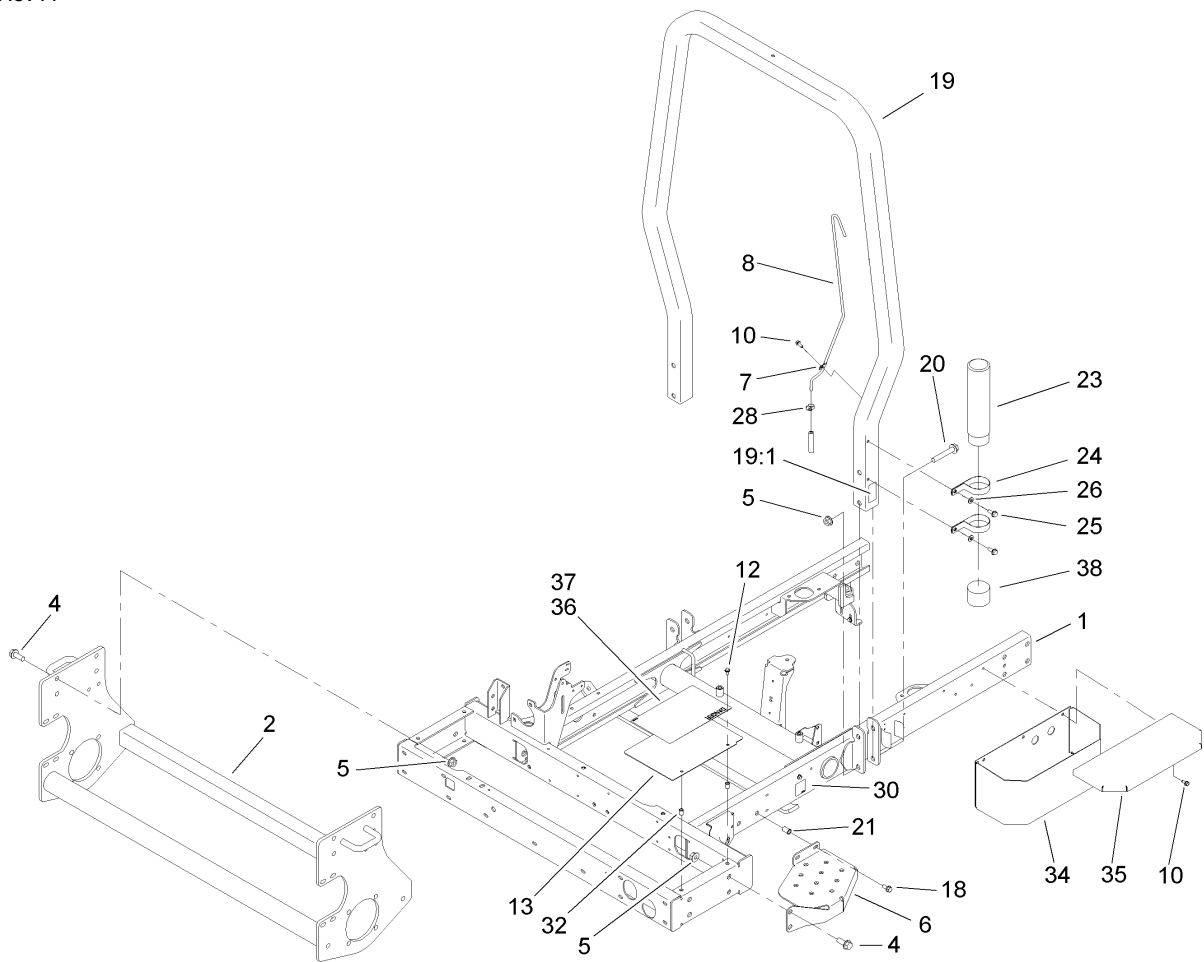
# Part Description Abbreviations

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

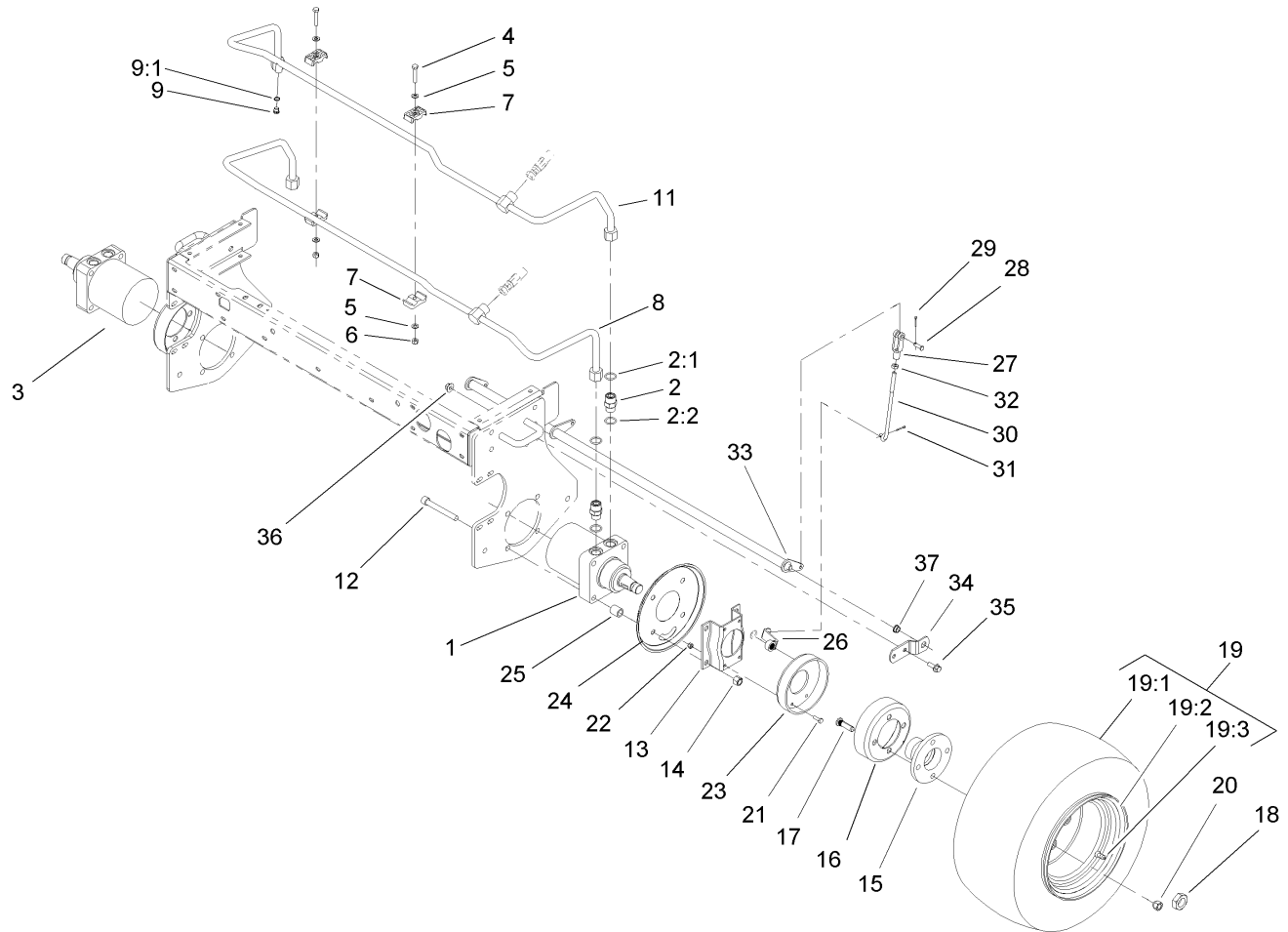
- ❶** Not illustrated
- ❷** Not serviced separately



Frame Assembly

| Ref  | Part No.    | Qty. | Description            |
|------|-------------|------|------------------------|
| 1    | 99-3610-03  | 1    | Frame ASM              |
| 2    | 95-8568-03  | 1    | Frame-Lower            |
| 4    | 3234-38     | 8    | Screw-HHF              |
| 5    | 32128-49    | 12   | Nut-HHF                |
| 6    | 99-3375-03  | 1    | Step                   |
| 7    | 2412-72     | 3    | Clip-Closed, Insulated |
| 8    | 95-8615     | 1    | Tube-Breather          |
| 10   | 32144-10    | 6    | Screw-HWH              |
| 12   | 3234-4      | 2    | Screw-HHF              |
| 13   | 104-0468-01 | 1    | Cover-Frame            |
| 18   | 3234-5      | 2    | Screw-HHF              |
| 19   | 107-7833    | 1    | ROPS ASM               |
| 19:1 | 107-7831    | 1    | Decal-ROPS             |
| 20   | 3234-40     | 4    | Screw-HF               |
| 21   | 32148-8     | 2    | Insert-Threaded        |
| 23   | 104-7050    | 1    | Housing-Manual         |
| 24   | 2412-133    | 2    | R-Clamp                |
| 25   | 32144-70    | 2    | Screw-HWHTF            |
| 26   | 3256-23     | 2    | Washer-Flat            |
| 28   | 2412-108    | 1    | Clamp-Worm             |
| 30   | 105-4674    | 1    | Decal-Noise            |
| 32   | 32148-6     | 2    | Insert-Nut             |
| 34   | 104-4634-03 | 1    | Toolbox ASM            |
| 35   | 104-4633-03 | 1    | Toolbox Cover ASM      |

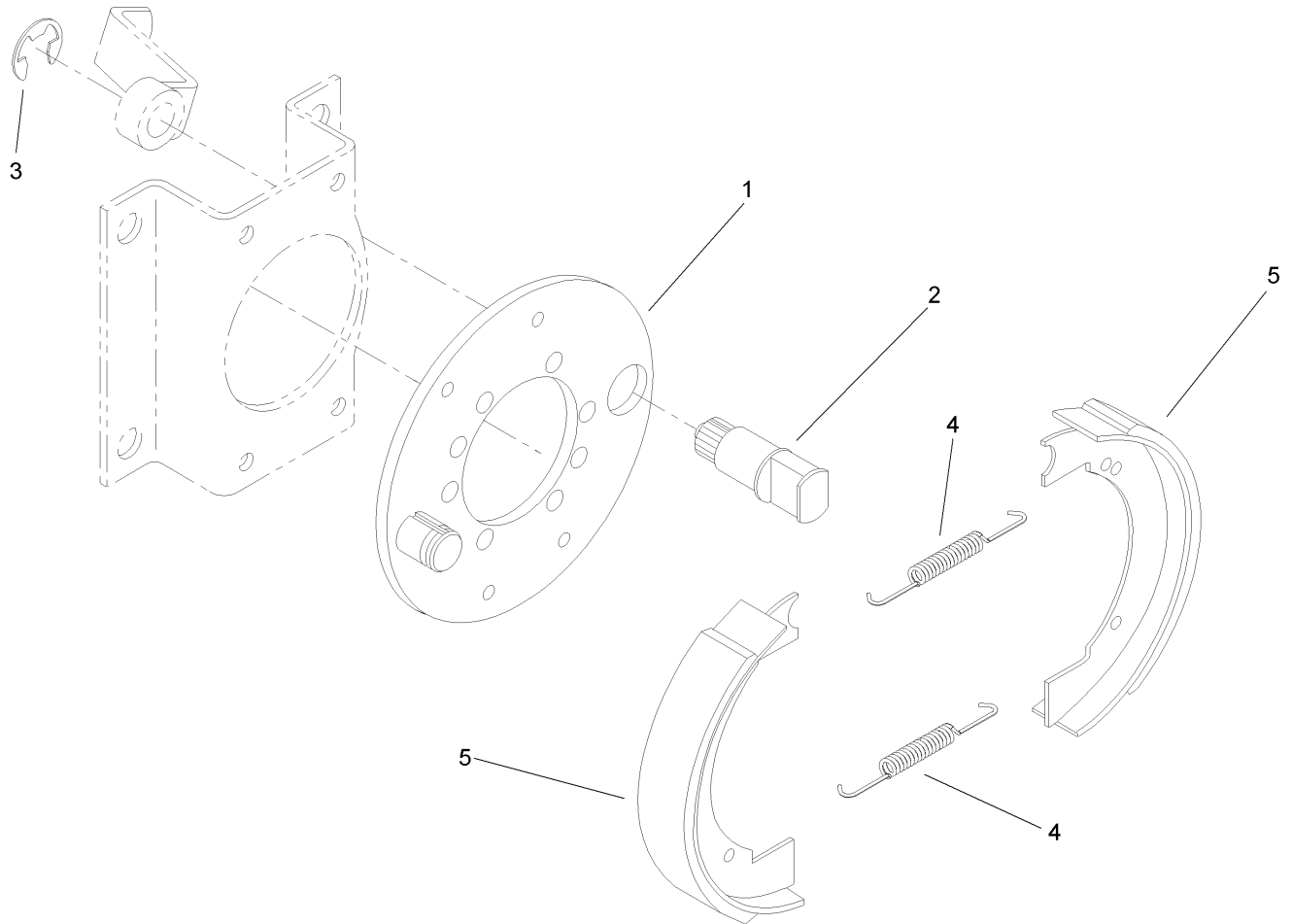
| Ref | Part No. | Qty. | Description      |
|-----|----------|------|------------------|
| 36  | 108-9015 | 1    | Decal-Danger     |
| 37  | 104-5181 | 1    | Decal-Danger, Ce |
| 38  | 104-7048 | 1    | Cap-Housing      |



## Front Wheel and Brake Assembly

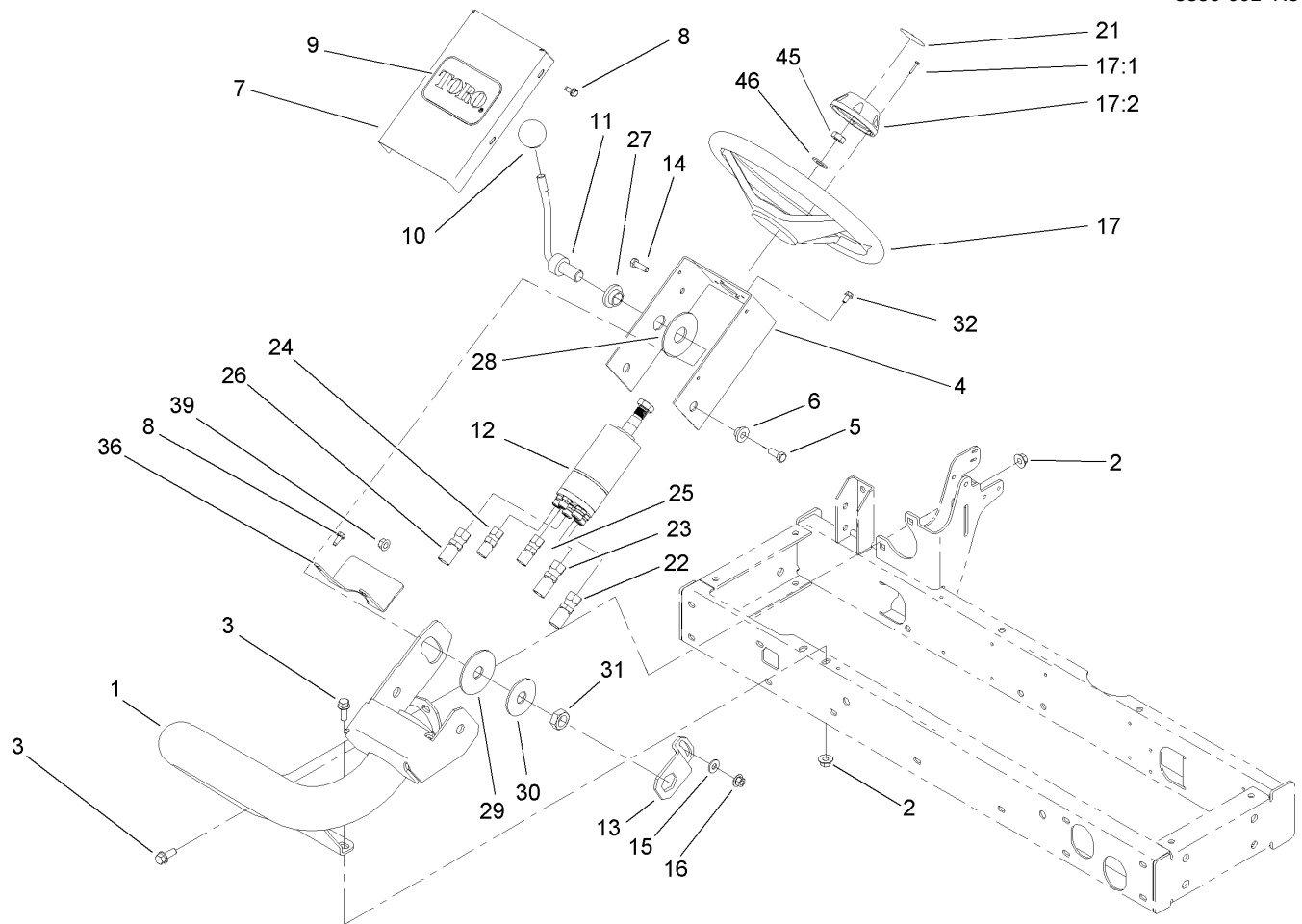
| Ref  | Part No.   | Qty. | Description        |
|------|------------|------|--------------------|
| 1    | 110-8785   | 1    | Motor-Wheel, LH    |
| 2    | 340-7      | 4    | Adapter            |
| 2:1  | 237-65     | 1    | O-Ring             |
| 2:2  | 237-80     | 1    | O-Ring             |
| 3    | 110-8786   | 1    | Motor-Wheel, RH    |
| 4    | 322-9      | 2    | Screw-HH           |
| 5    | 3256-23    | 4    | Washer-Flat        |
| 6    | 3296-29    | 2    | Nut-Lock, NI       |
| 7    | 56-7971    | 4    | Clamp-Tube         |
| 8    | 95-8783    | 1    | Tube ASM           |
| 9    | 353-990    | 1    | Plug               |
| 9:1  | 237-78     | 1    | O-Ring             |
| 11   | 95-8784    | 1    | Tube ASM           |
| 12   | 3274-99    | 8    | Screw-HSH          |
| 13   | 84-2000-03 | 2    | Bracket-Brake      |
| 14   | 3296-23    | 8    | Nut-Lock, NI       |
| 15   | 93-6838    | 2    | Hub-Wheel          |
| 16   | 10-6850    | 2    | Drum-Brake         |
| 17   | 85-6540    | 8    | Stud-Drive         |
| 18   | 26-3790    | 2    | Nut-Lock           |
| 19   |            | 2    | Tire And Wheel ASM |
| 19:1 | 95-8656    | 1    | Tire               |
| 19:2 | 99-3474    | 1    | Rim-Wheel          |
| 19:3 | 232-27     | 1    | Stem-Valve         |

| Ref | Part No.    | Qty. | Description           |
|-----|-------------|------|-----------------------|
| 20  | 242-50      | 8    | Nut-Lug               |
| 21  | 321-5       | 8    | Screw-HH              |
| 22  | 3296-42     | 8    | Nut-Lock, NI          |
| 23  | 104-7705    | 2    | Brake ASM             |
| 24  | 104-0485-03 | 2    | Shield-Wheel          |
| 25  | 92-1715     | 8    | Spacer                |
| 26  | 93-6850     | 2    | Lever-Brake           |
| 27  | 282-2       | 2    | Yoke                  |
| 28  | 283-1       | 2    | Pin-Clevis            |
| 29  | 3272-10     | 2    | Pin-Cotter            |
| 30  | 104-4627    | 2    | Rod-Adjusting         |
| 31  | 3272-6      | 2    | Pin-Cotter            |
| 32  | 3220-2      | 2    | Nut-Jam               |
| 33  | 104-4625-03 | 1    | Brake Pivot Shaft ASM |
| 34  | 95-8683     | 2    | Bracket-Pivot, Brake  |
| 35  | 3234-11     | 4    | Screw-HHF             |
| 36  | 32128-43    | 4    | Nut-Flange            |
| 37  | 256-156     | 2    | Bushing-Flange        |



# Brake Assembly No. 104-7705

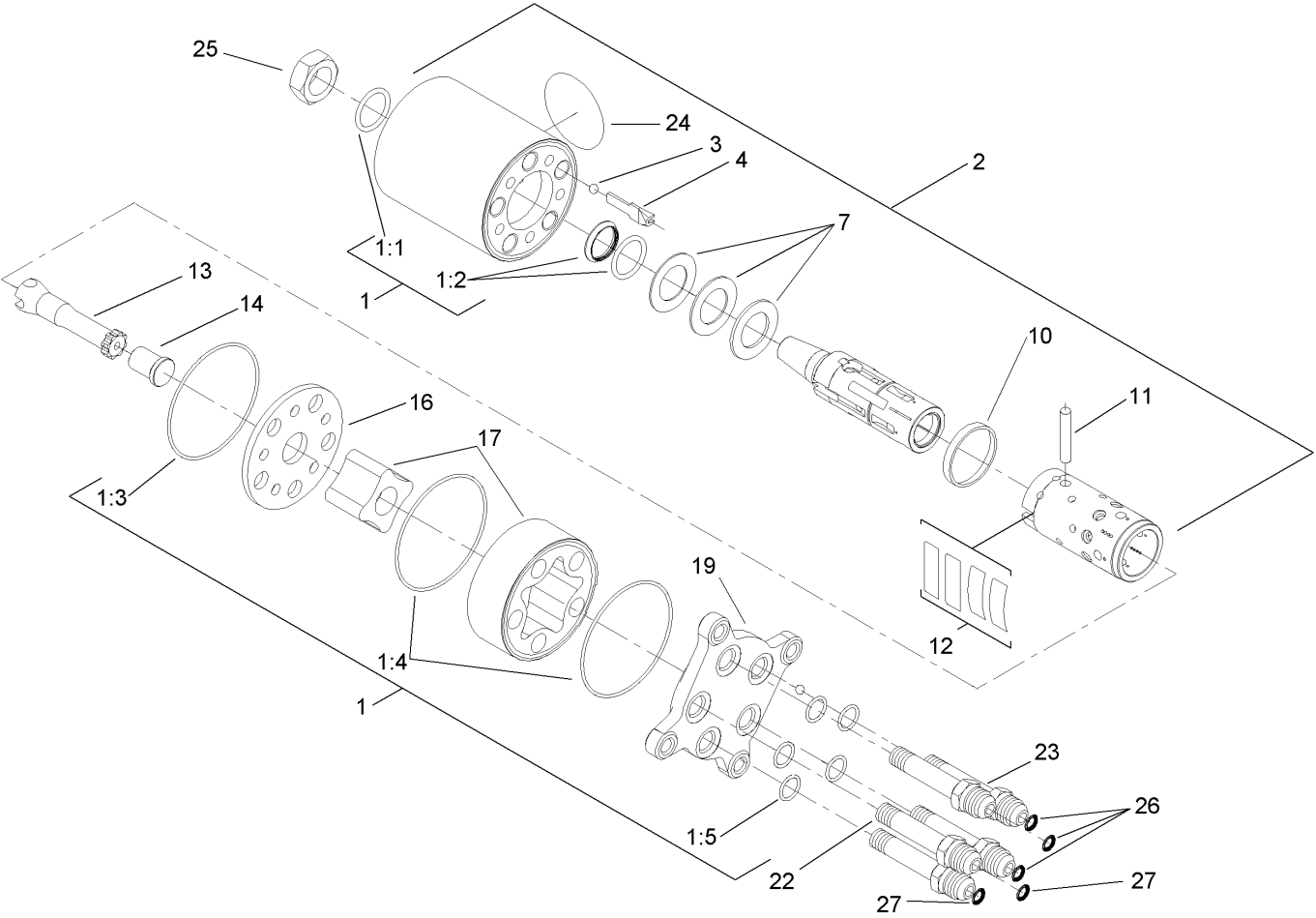
| Ref | Part No. | Qty. | Description      |
|-----|----------|------|------------------|
| 1   | 70-9870  | 1    | Plate-Backing    |
| 2   | 104-7707 | 1    | Shaft-Cam, Brake |
| 3   | 104-7706 | 1    | E Ring-Bowed     |
| 4   | 70-9880  | 2    | Spring-Return    |
| 5   | 70-9840  | 2    | Shoe-Brake       |



## Steering Column Assembly

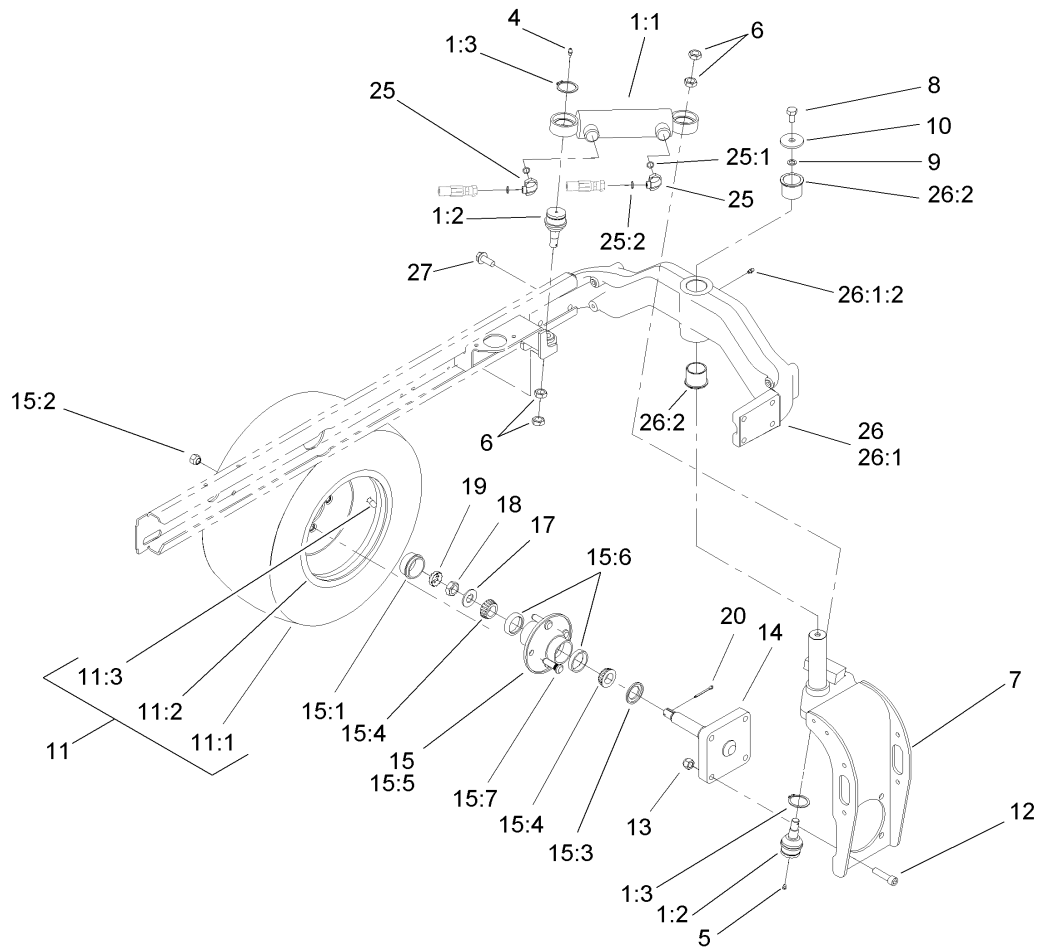
| Ref  | Part No.    | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    | 108-9003-01 | 1    | Arm-Steering            |
| 2    | 32128-43    | 4    | Nut-Flange              |
| 3    | 3234-11     | 4    | Screw-HHF               |
| 4    | 104-5185-01 | 1    | Bracket-Valve, Steering |
| 5    | 323-5       | 2    | Screw-HH                |
| 6    | 93-5988     | 2    | Hub-Pivot               |
| 7    | 95-8794-01  | 1    | Cover-Valve, Steering   |
| 8    | 32144-10    | 5    | Screw-HWH               |
| 9    | 67-1300     | 1    | Decal                   |
| 10   | 233-48      | 1    | Knob                    |
| 11   | 95-8798-03  | 1    | Lever-Steering          |
| 12   | 104-5180    | 1    | Valve-Steering          |
| 13   | 80-2880     | 1    | Bracket-Tilt            |
| 14   | 322-5       | 1    | Screw-HH                |
| 15   | 3256-3      | 1    | Washer-Flat             |
| 16   | 32128-44    | 1    | Nut                     |
| 17   | 75-0560     | 1    | Wheel-Steering          |
| 17:1 | 32144-21    | 1    | Screw                   |
| 17:2 | 68-5140     | 1    | Cap-Wheel, Steering     |
| 21   | 68-5370     | 1    | Decal                   |
| 22   | 95-8842     | 1    | Hose ASM                |
| 23   | 95-8843     | 1    | Hose ASM                |
| 24   | 100-4892    | 1    | Hose ASM                |
| 25   | 100-4893    | 1    | Hose ASM                |

| Ref | Part No.   | Qty. | Description     |
|-----|------------|------|-----------------|
| 26  | 95-8846    | 1    | Hose ASM        |
| 27  | 99-3502    | 1    | Boss            |
| 28  | 31-0390    | 1    | Disc-Friction   |
| 29  | 82-9010    | 1    | Disc-Friction   |
| 30  | 80-2930    | 1    | Washer-Flat     |
| 31  | 3218-7     | 1    | Nut-Jam         |
| 32  | 33103-012  | 4    | Screw-HHF       |
| 36  | 99-3405-01 | 1    | Shield-Steering |
| 39  | 32128-21   | 2    | Nut-HF          |
| 45  | 3296-33    | 1    | Nut-Lock, NI    |
| 46  | 3256-27    | 1    | Washer-Flat     |



Steering Valve Assembly No. 104-5180

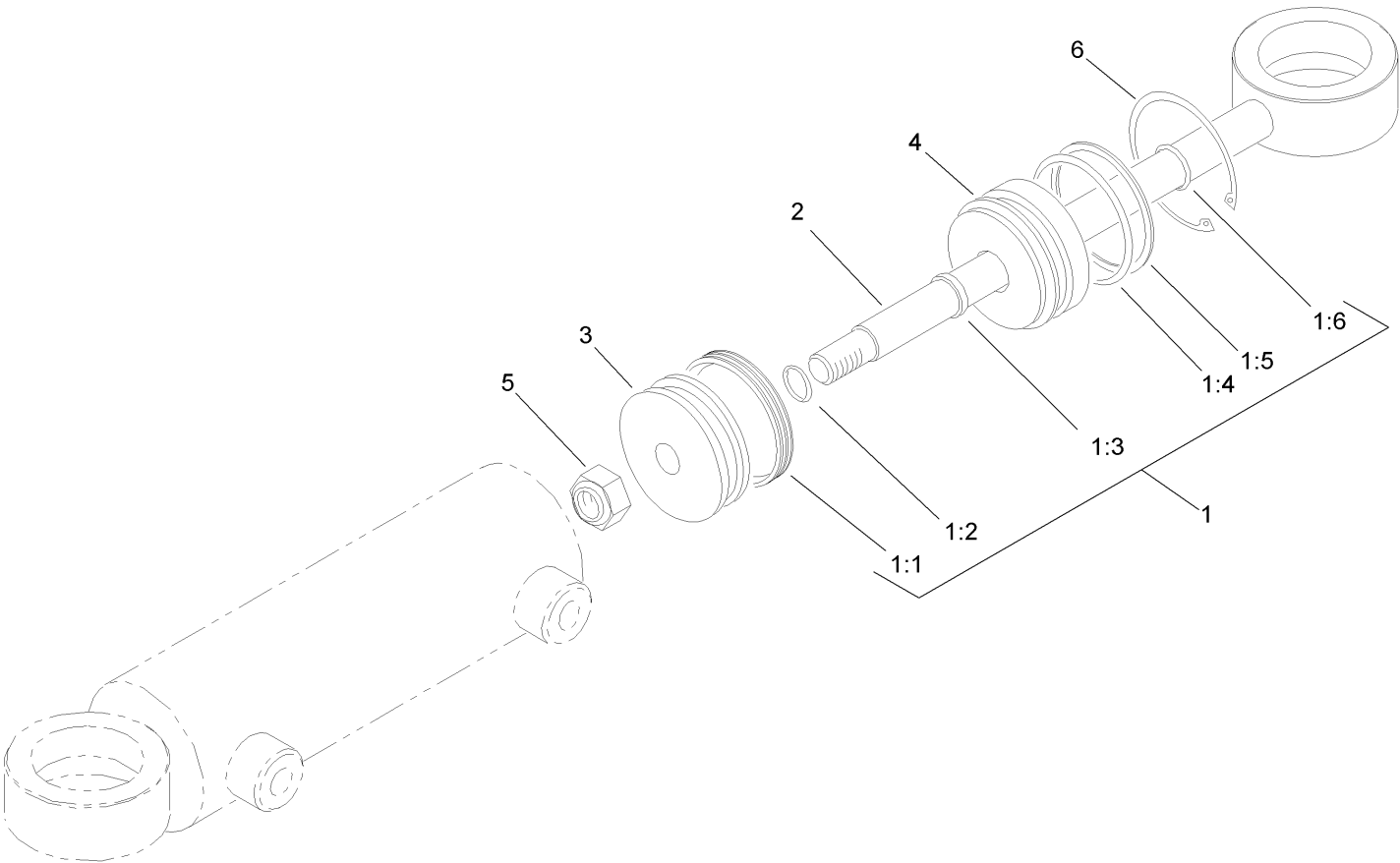
| Ref | Part No. | Qty. | Description       |  |  |  |  |
|-----|----------|------|-------------------|--|--|--|--|
| 1   | 106-6716 | 1    | Seal Kit          |  |  |  |  |
| 1:1 |          | 1    | Ring-Seal, Dust   |  |  |  |  |
| 1:2 |          | 1    | Seal-Shaft        |  |  |  |  |
| 1:3 |          | 1    | O-Ring            |  |  |  |  |
| 1:4 |          | 2    | O-Ring            |  |  |  |  |
| 1:5 |          | 5    | O-Ring            |  |  |  |  |
| 2   |          | 1    | Housing           |  |  |  |  |
| 3   |          | 1    | Ball              |  |  |  |  |
| 4   |          | 1    | Stop-Ball         |  |  |  |  |
| 7   |          | 1    | Bearing ASM       |  |  |  |  |
| 10  |          | 1    | Ring              |  |  |  |  |
| 11  |          | 1    | Pin-Cross         |  |  |  |  |
| 12  |          | 1    | Springs           |  |  |  |  |
| 13  |          | 1    | Shaft             |  |  |  |  |
| 14  |          | 1    | Spacer            |  |  |  |  |
| 16  |          | 1    | Plate-Distributor |  |  |  |  |
| 17  |          | 1    | Gearwheel Set     |  |  |  |  |
| 19  |          | 1    | Cover-End         |  |  |  |  |
| 22  |          | 1    | Screw-Special     |  |  |  |  |
| 23  |          | 4    | Screw-Special     |  |  |  |  |
| 24  |          | 1    | Plate-Name        |  |  |  |  |
| 25  | 3296-33  | 1    | Nut-Lock, NI      |  |  |  |  |
| 26  | 237-22   | 3    | O-Ring            |  |  |  |  |
| 27  | 237-21   | 2    | O-Ring            |  |  |  |  |



## Rear Fork and Tire Assembly

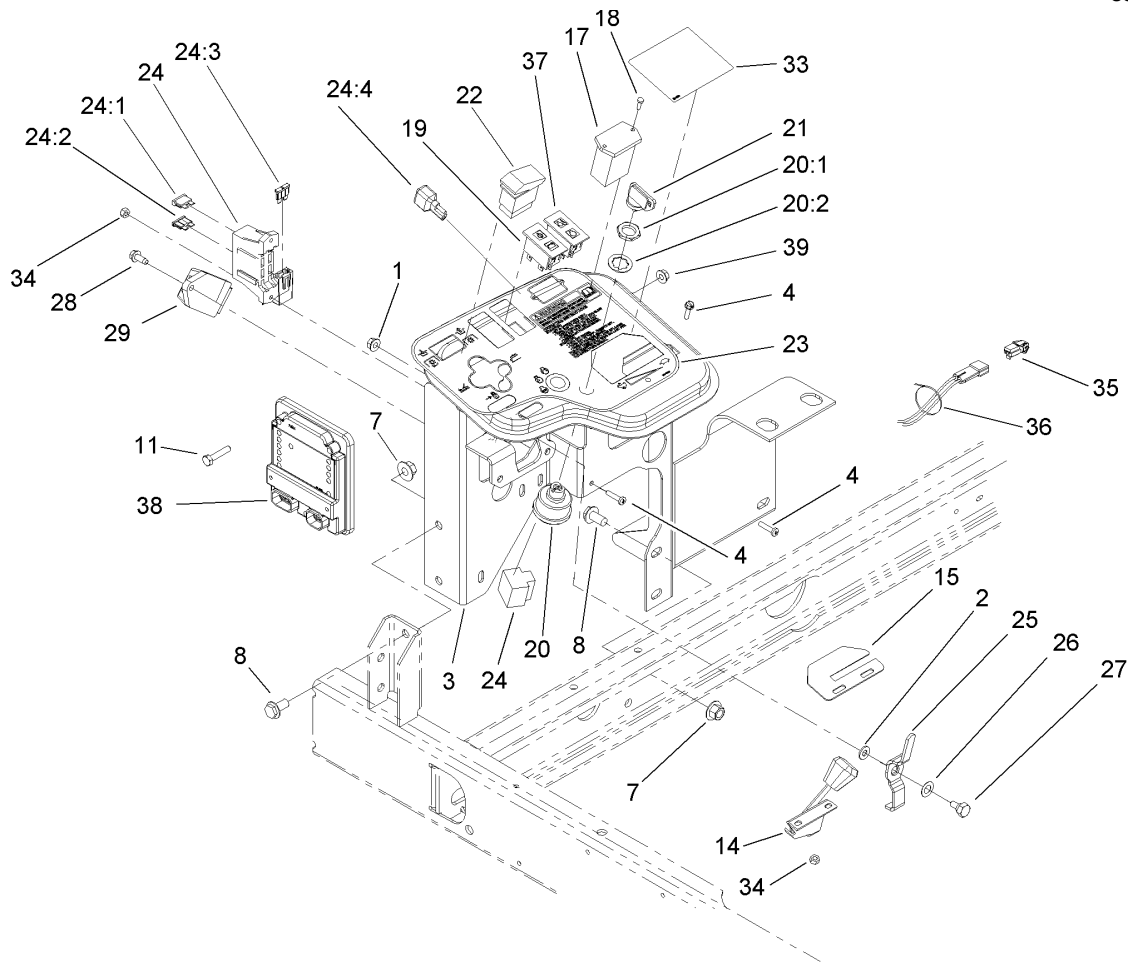
| Ref  | Part No.    | Qty. | Description                       |
|------|-------------|------|-----------------------------------|
| ② 1  |             | 1    | Steering Cylinder / Balljoint ASM |
| 1:1  | 94-8141     | 1    | HYD Cylinder ASM                  |
| 1:2  | 106-6774    | 2    | Joint-Ball                        |
| 1:3  | 32151-104   | 2    | Ring-Retaining, External          |
| 4    | 302-5       | 1    | Fitting-Grease                    |
| 5    | 302-59      | 1    | Plug-Threaded                     |
| 6    | 3220-6      | 4    | Nut-Jam                           |
| 7    | 95-8905-01  | 1    | Fork-Rear                         |
| 8    | 325-3       | 1    | Screw-HH                          |
| 9    | 3255-2      | 1    | Washer-Lock / EXT                 |
| 10   | 75-7730     | 1    | Washer-Thrust                     |
| ② 11 |             | 1    | Tire And Wheel ASM                |
| 11:1 | 95-8656     | 1    | Tire                              |
| 11:2 | 95-8657     | 1    | Rim-Wheel                         |
| 11:3 | 232-27      | 1    | Stem-Valve                        |
| 12   | 3274-5      | 4    | Screw-HSH                         |
| 13   | 3296-23     | 4    | Nut-Lock, NI                      |
| 14   | 104-3966-03 | 1    | 2 Wheel Drive Hub ASM             |
| 15   | 80-6570     | 1    | Hub ASM                           |
| 15:1 | 241-119     | 1    | Cap-Dust                          |
| 15:2 | 242-50      | 4    | Nut-Lug                           |
| 15:3 | 253-129     | 1    | Seal                              |
| 15:4 | 254-94      | 2    | Bearing-Cone, Tapered             |
| 15:5 | 80-6580     | 1    | Hub                               |

| Ref    | Part No. | Qty. | Description          |
|--------|----------|------|----------------------|
| 15:6   | 254-72   | 2    | Bearing-Cup, Tapered |
| 15:7   | 10-6830  | 4    | Stud-Type, Drive     |
| 17     | 93-0309  | 1    | Washer-Tab           |
| 18     | 3220-7   | 1    | Nut-Jam              |
| 19     | 93-0307  | 1    | Nut-Lock, Retainer   |
| 20     | 3272-13  | 1    | Pin-Cotter           |
| 25     | 340-132  | 2    | Fitting-HYD, 90 DEG  |
| 25:1   | 237-78   | 1    | O-Ring               |
| 25:2   | 237-21   | 1    | O-Ring               |
| 26     | 107-7828 | 1    | Rear Casting ASM     |
| ② 26:1 |          | 1    | Casting-Rear         |
| 26:1:2 | 302-5    | 1    | Fitting-Grease       |
| 26:2   | 95-8805  | 2    | Bushing              |
| 27     | 3234-38  | 8    | Screw-HHF            |



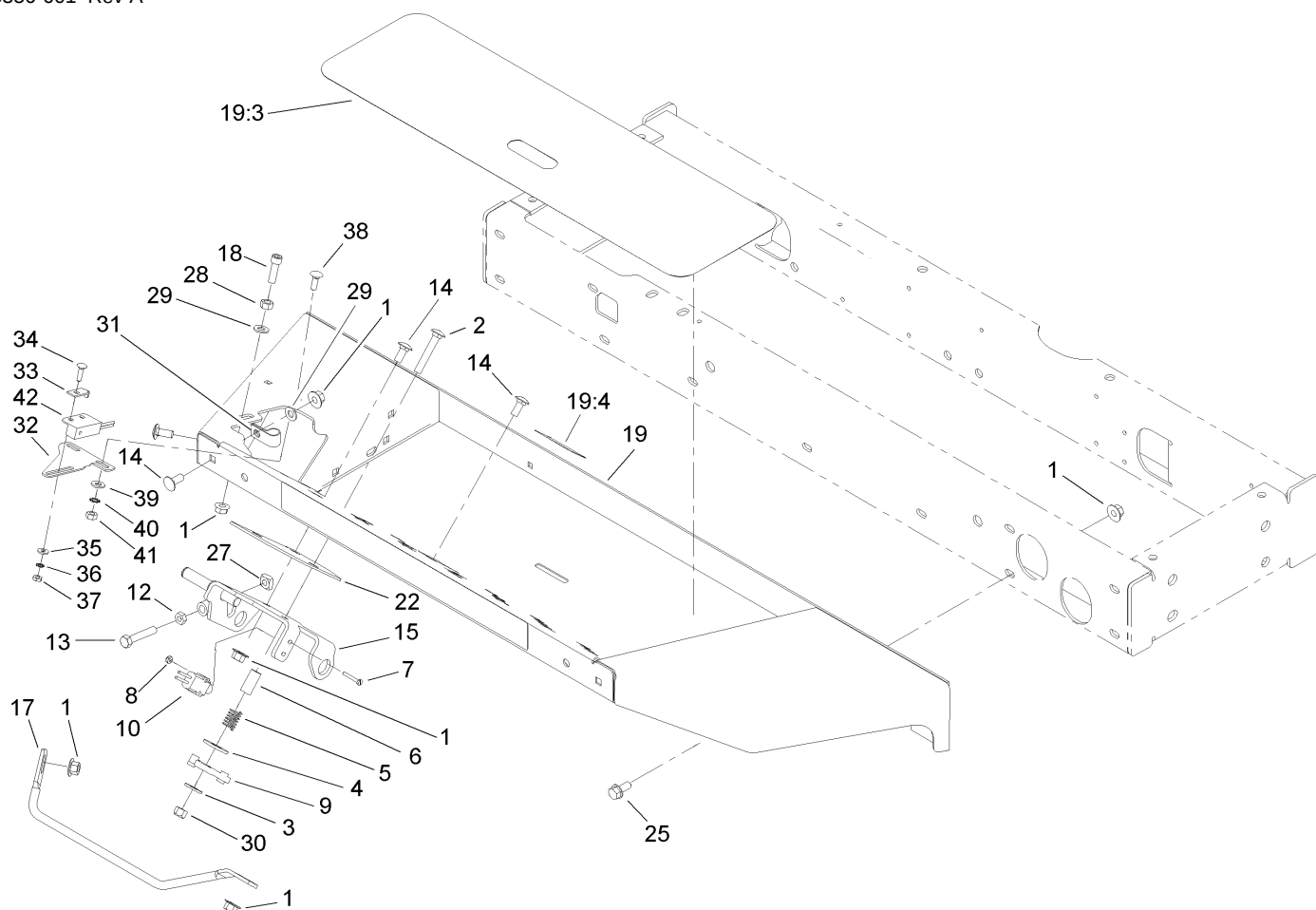
Hydraulic Cylinder Assembly No. 94-8141

| Ref | Part No. | Qty. | Description    |  |  |  |  |
|-----|----------|------|----------------|--|--|--|--|
| 1   | 86-5390  | 1    | Seal Kit       |  |  |  |  |
| 1:1 |          | 1    | Uniring        |  |  |  |  |
| 1:2 |          | 1    | O-Ring         |  |  |  |  |
| 1:3 |          | 1    | Seal-Rod       |  |  |  |  |
| 1:4 |          | 1    | O-Ring         |  |  |  |  |
| 1:5 |          | 1    | Ring-Backup    |  |  |  |  |
| 1:6 |          | 1    | O-Ring         |  |  |  |  |
| 2   |          | 1    | Rod            |  |  |  |  |
| 3   |          | 1    | Piston         |  |  |  |  |
| 4   |          | 1    | Gland          |  |  |  |  |
| 5   |          | 1    | Nut-Lock       |  |  |  |  |
| 6   |          | 1    | Ring-Retaining |  |  |  |  |



## Control Panel Assembly

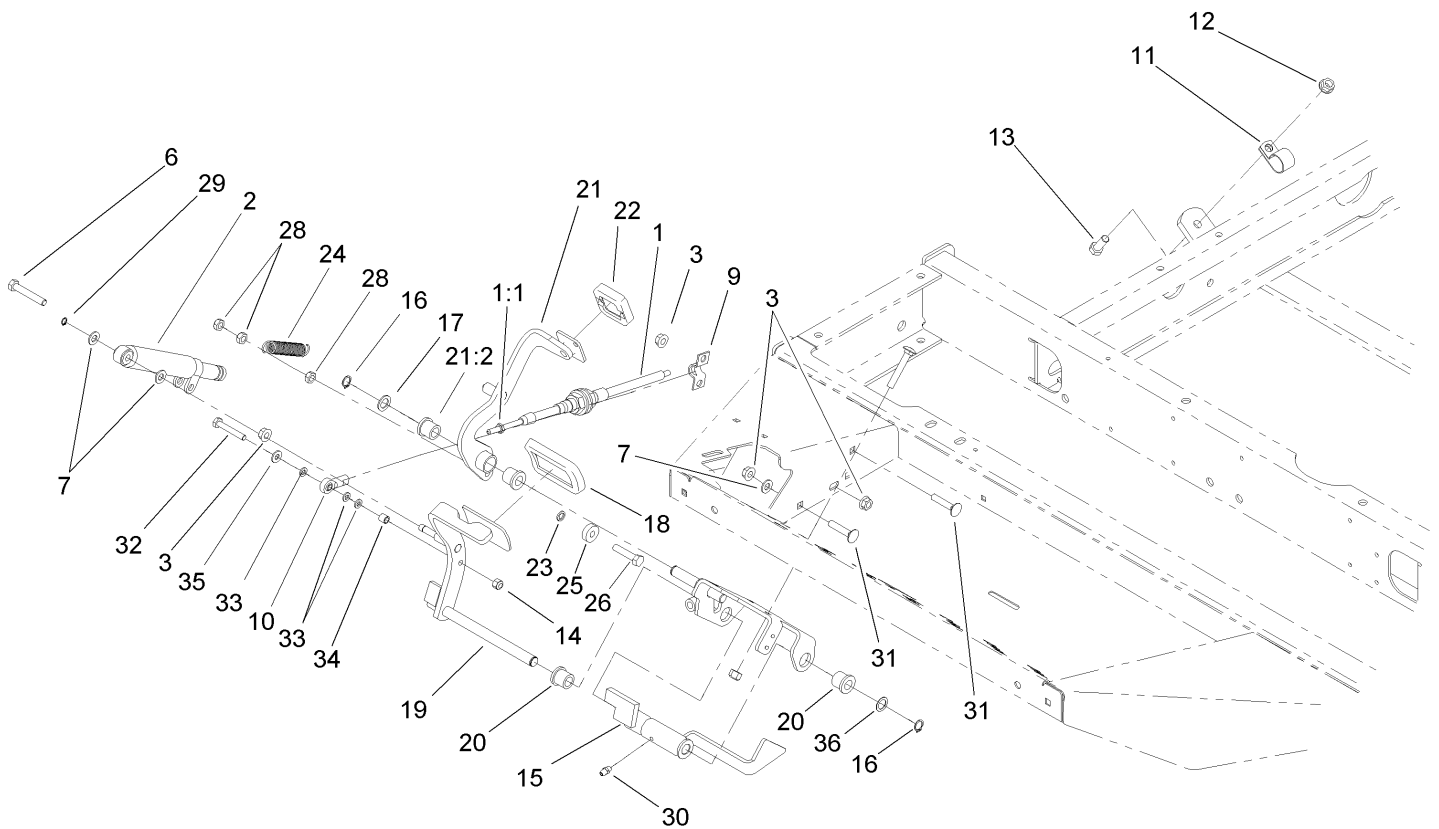
| Ref  | Part No.    | Qty. | Description          | Ref | Part No. | Qty. | Description              |
|------|-------------|------|----------------------|-----|----------|------|--------------------------|
| 1    | 32128-32    | 1    | Nut-HHF              | 26  | 3290-477 | 1    | Washer-Curved            |
| 2    | 3256-22     | 1    | Washer-Flat          | 27  | 63-3410  | 1    | Screw-Shoulder           |
| 3    | 104-5190-03 | 1    | Panel-Control        | 28  | 32144-10 | 1    | Screw-HWH                |
| 4    | 3290-134    | 4    | Screw                | 29  | 98-7611  | 1    | Controller-Glow          |
| 7    | 32128-43    | 5    | Nut-Flange           | 33  | 99-3558  | 1    | Decal-Console, Ce        |
| 8    | 3234-1      | 5    | Screw-HHF            | 34  | 3290-148 | 4    | Nut-HF                   |
| 11   | 321-8       | 3    | Screw-HH             | 35  | 104-4875 | 1    | Harness-Wire, Jumper     |
| 14   | 110-8750    | 1    | Cable-Throttle       | 36  | 3290-379 | 1    | Tie-Cable                |
| 15   | 104-0421    | 1    | Plate-Stop, Throttle | 37  | 100-8071 | 1    | Lamp-Warning             |
| 17   | 75-6820     | 1    | Hourmeter            | 38  | 106-9277 | 1    | Module-Control, Standard |
| 18   | 32144-18    | 2    | Screw-HH             | 39  | 32128-33 | 3    | Nut-HF                   |
| 19   | 100-8070    | 1    | Lamp-Warning         |     |          |      |                          |
| 20   | 104-2541    | 1    | Switch-Key           |     |          |      |                          |
| 20:1 | 218-461     | 1    | Nut-HH               |     |          |      |                          |
| 20:2 | 3254-5      | 1    | Washer-Tooth         |     |          |      |                          |
| 21   | 63-8360     | 2    | Key-Ignition         |     |          |      |                          |
| 22   | 95-8999     | 1    | Switch               |     |          |      |                          |
| 23   | 108-9006    | 1    | Decal-Console        |     |          |      |                          |
| 24   | 110-8774    | 1    | Harness-Wire         |     |          |      |                          |
| 24:1 | 109355      | 1    | Fuse-15 Amp          |     |          |      |                          |
| 24:2 | 218-578     | 2    | Fuse-10 Amp          |     |          |      |                          |
| 24:3 | 94-6710     | 1    | Fuse-Blade, 2 Amp    |     |          |      |                          |
| 24:4 | 100-4918    | 1    | Diode                |     |          |      |                          |
| 25   | 99-3401-03  | 1    | Lever-Valve, Lock    |     |          |      |                          |



## Front Platform Assembly

| Ref  | Part No.    | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    | 32128-20    | 18   | Nut-HF                  |
| 2    | 3230-6      | 1    | Screw-CARR              |
| 3    | 3256-3      | 1    | Washer-Flat             |
| 4    | 3256-40     | 1    | Washer-Flat             |
| 5    | 65-9940     | 1    | Spring                  |
| 6    | 95-8866     | 1    | Tube-Arm, Rocker        |
| 7    | 32105-9     | 2    | Screw                   |
| 8    | 3296-9      | 2    | Nut-Lock                |
| 9    | 99-3593     | 1    | Arm-Rocker              |
| 10   | 95-8900     | 1    | Switch                  |
| 12   | 3218-2      | 1    | Nut-Jam                 |
| 13   | 322-41      | 1    | Screw-HH                |
| 14   | 3230-23     | 7    | Screw-CARR              |
| 15   | 95-8869-03  | 1    | Bracket-Pedal, Traction |
| 17   | 95-8893     | 1    | Bar-Deflector           |
| 18   | 3274-22     | 1    | Screw-HSH               |
| 19   | 106-4154    | 1    | Floorplate ASM          |
| 19:3 | 99-3478     | 1    | Tread-Foot              |
| 19:4 | 99-3444     | 1    | Decal-Mow / Transport   |
| 22   | 106-2661-01 | 1    | Plate-Support           |
| 25   | 3234-5      | 10   | Screw-HHF               |
| 27   | 99-3565     | 1    | Nut-Square              |
| 28   | 3217-6      | 1    | Nut-Hex                 |
| 29   | 3256-23     | 2    | Washer-Flat             |

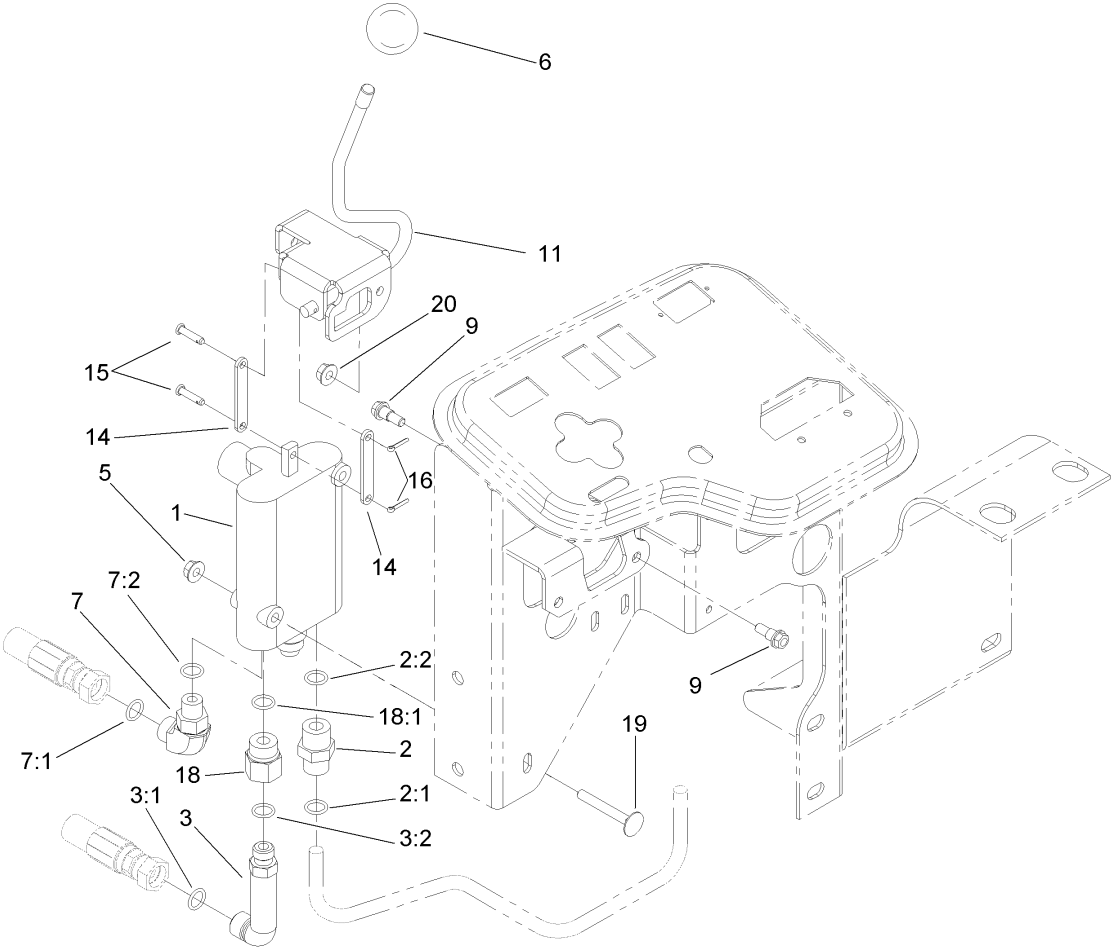
| Ref | Part No. | Qty. | Description             |
|-----|----------|------|-------------------------|
| 30  | 3296-29  | 1    | Nut-Lock, NI            |
| 31  | 2412-103 | 1    | Clamp                   |
| 32  | 100-4871 | 1    | Bracket-Switch, Neutral |
| 33  | 100-4872 | 1    | Plate-Switch, Neutral   |
| 34  | 3229-20  | 1    | Screw-CARR              |
| 35  | 3256-14  | 1    | Washer-Flat             |
| 36  | 3255-17  | 1    | Washer-Lock / EXT       |
| 37  | 3296-2   | 1    | Nut-Lock                |
| 38  | 3229-1   | 2    | Screw-CARR              |
| 39  | 3256-22  | 2    | Washer-Flat             |
| 40  | 3255-7   | 2    | Washer-Lock / EXT       |
| 41  | 3217-5   | 2    | Nut-Hex                 |
| 42  | 100-1270 | 1    | Switch-Proximity        |



## Traction Pedal Assembly

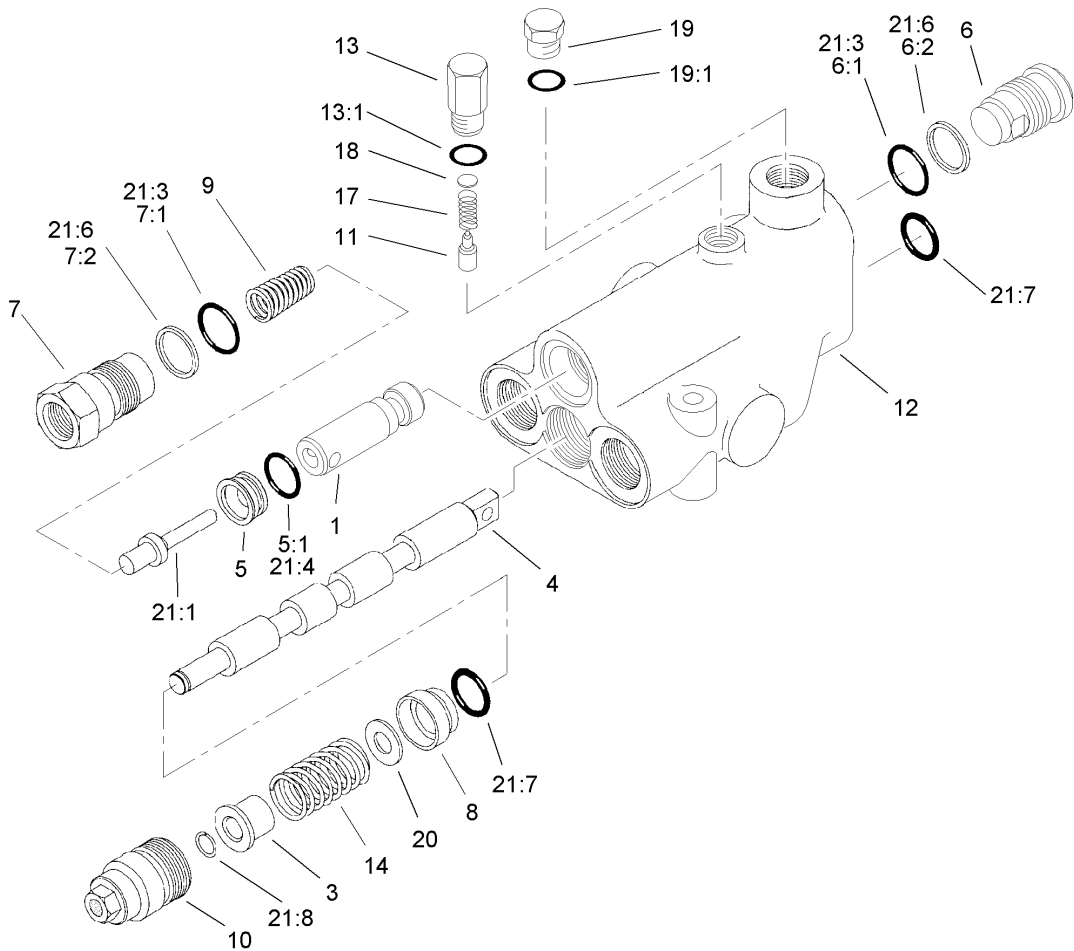
| Ref  | Part No.    | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    | 100-4815    | 1    | Cable-Control, Traction |
| 1:1  | 3220-1      | 2    | Nut-Jam                 |
| 2    | 76-8870     | 1    | Lever Damper ASM        |
| 3    | 32128-20    | 5    | Nut-HF                  |
| 6    | 322-10      | 1    | Screw-HH                |
| 7    | 3256-23     | 3    | Washer-Flat             |
| 9    | 93-2092     | 1    | Clamp-Cable             |
| 10   | 2411-41     | 1    | Joint-Ball              |
| 11   | 2412-41     | 1    | Clamp                   |
| 12   | 3290-357    | 1    | Nut-HHF, Whiz           |
| 13   | 323-6       | 1    | Screw-HH                |
| 14   | 3296-42     | 1    | Nut-Lock, NI            |
| 15   | 95-8861     | 1    | Slide                   |
| 16   | 32151-84    | 2    | Ring-Shaft, EXT         |
| 17   | 41-8440     | 1    | Washer                  |
| 18   | 74-9100     | 1    | Pad-Pedal, Forward      |
| 19   | 104-4852-03 | 1    | Traction Pedal ASM      |
| 20   | 256-243     | 2    | Bearing-Flange          |
| 21   | 99-3379     | 1    | Pedal-Reverse           |
| 21:2 | 256-243     | 2    | Bearing-Flange          |
| 22   | 74-9110     | 1    | Pad-Pedal, Reverse      |
| 23   | 75-5470     | 1    | Spacer-Bearing          |
| 24   | 99-3476     | 1    | Spring-Extension        |
| 25   | 251-259     | 1    | Bearing-Ball            |

| Ref | Part No. | Qty. | Description    |
|-----|----------|------|----------------|
| 26  | 322-7    | 1    | Screw-HH       |
| 28  | 3296-47  | 3    | Nut-Lock, NI   |
| 29  | 32151-3  | 1    | Ring-Grip, EXT |
| 30  | 302-5    | 1    | Fitting-Grease |
| 31  | 3230-27  | 1    | Screw-CARR     |
| 32  | 321-10   | 1    | Screw-HH       |
| 33  | 33093-00 | 3    | Washer-Flat    |
| 34  | 99-3545  | 1    | Spacer         |
| 35  | 3256-22  | 1    | Washer-Flat    |
| 36  | 73-0040  | 4    | Washer-Thrust  |



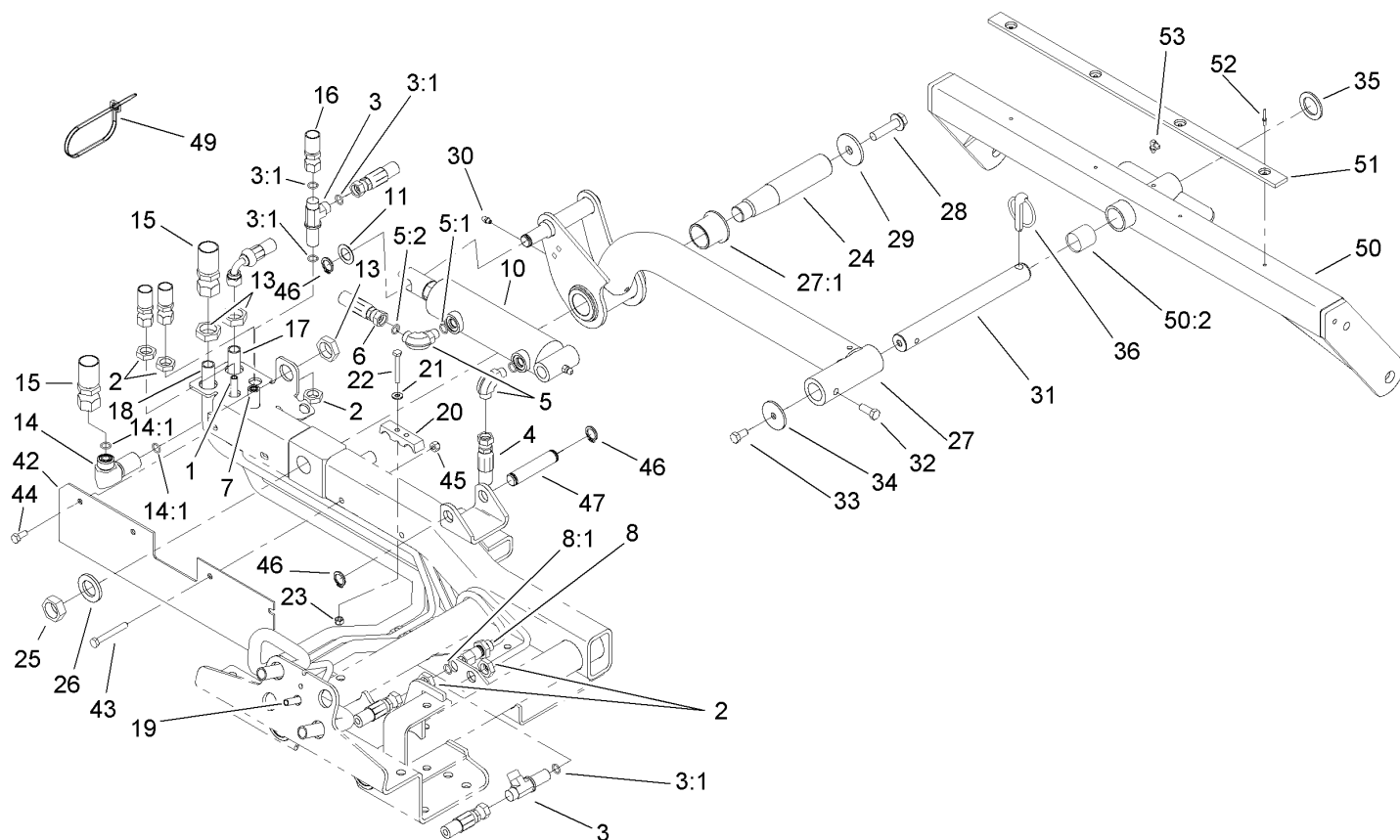
Control Valve Assembly

| Ref  | Part No. | Qty. | Description         |  |  |  |  |
|------|----------|------|---------------------|--|--|--|--|
| 1    | 95-8689  | 1    | Valve ASM           |  |  |  |  |
| 2    | 340-3    | 1    | Adapter             |  |  |  |  |
| 2:1  | 237-22   | 1    | O-Ring              |  |  |  |  |
| 2:2  | 237-79   | 1    | O-Ring              |  |  |  |  |
| 3    | 69-4320  | 1    | Fitting-90 DEG      |  |  |  |  |
| 3:1  | 237-22   | 1    | O-Ring              |  |  |  |  |
| 3:2  | 237-42   | 1    | O-Ring              |  |  |  |  |
| 5    | 32128-33 | 2    | Nut-HF              |  |  |  |  |
| 6    | 233-42   | 1    | Knob                |  |  |  |  |
| 7    | 340-77   | 1    | Fitting-HYD, 90 DEG |  |  |  |  |
| 7:1  | 237-22   | 1    | O-Ring              |  |  |  |  |
| 7:2  | 237-42   | 1    | O-Ring              |  |  |  |  |
| 9    | 42-3560  | 2    | Bolt-Shoulder       |  |  |  |  |
| 11   | 95-8692  | 1    | Lever ASM           |  |  |  |  |
| 14   | 95-8634  | 2    | Link                |  |  |  |  |
| 15   | 58-3830  | 2    | Pin-Clevis          |  |  |  |  |
| 16   | 3272-5   | 2    | Pin-Cotter          |  |  |  |  |
| 18   | 353-397  | 1    | Reducer-Adapter     |  |  |  |  |
| 18:1 | 237-79   | 1    | O-Ring              |  |  |  |  |
| 19   | 3230-33  | 2    | Screw-CARR          |  |  |  |  |
| 20   | 32128-32 | 2    | Nut-HHF             |  |  |  |  |



### Control Valve Assembly No. 95-8689

| Ref  | Part No. | Qty. | Description      | Ref  | Part No. | Qty. | Description    |
|------|----------|------|------------------|------|----------|------|----------------|
| 1    | 99-3586  | 1    | Plunger          | 21   | 99-3589  | 1    | Seal Kit       |
| 3    | 58-6310  | 1    | Spacer           | 21:1 | 58-6290  | 2    | Poppet         |
| 4    | 58-6330  | 1    | Spool            | 21:2 | 58-6320  | 1    | Wiper          |
| 5    | 58-6330  | 1    | Seat             | 21:3 | 60-5720  | 2    | O-Ring         |
| 5:1  | 58-6340  | 1    | O-Ring           | 21:4 | 58-6340  | 2    | O-Ring         |
| 6    | 58-6350  | 1    | Plug             | 21:5 | 93-6314  | 1    | O-Ring         |
| 6:1  | 60-5720  | 1    | O-Ring           | 21:6 | 58-6370  | 2    | Washer         |
| 6:2  | 58-6370  | 1    | Washer           | 21:7 | 58-6450  | 2    | O-Ring         |
| 7    | 69-1800  | 1    | Plug ASM         | 21:8 | 58-6460  | 1    | Ring-Retaining |
| 7:1  | 60-5720  | 1    | O-Ring           | 21:9 |          | 1    | Seal-Dust      |
| 7:2  | 58-6370  | 1    | Washer           |      |          |      |                |
| 8    | 58-6400  | 1    | Bushing          |      |          |      |                |
| 9    | 69-1810  | 1    | Spring           |      |          |      |                |
| 10   | 58-6420  | 1    | Cap              |      |          |      |                |
| 11   | 99-3585  | 1    | Detent-Plunger   |      |          |      |                |
| 12   |          | 1    | Body             |      |          |      |                |
| 13   | 99-3588  | 1    | Plug ASM         |      |          |      |                |
| 13:1 | 60-6410  | 1    | O-Ring           |      |          |      |                |
| 14   | 99-3531  | 1    | Spring           |      |          |      |                |
| 17   | 99-3587  | 1    | Spring           |      |          |      |                |
| 18   | 60-6450  | 1    | Disc             |      |          |      |                |
| 19   | 353-989  | 1    | Plug-Hex, Hollow |      |          |      |                |
| 19:1 | 237-42   | 1    | O-Ring           |      |          |      |                |
| 20   | 65-2770  | 1    | Washer           |      |          |      |                |

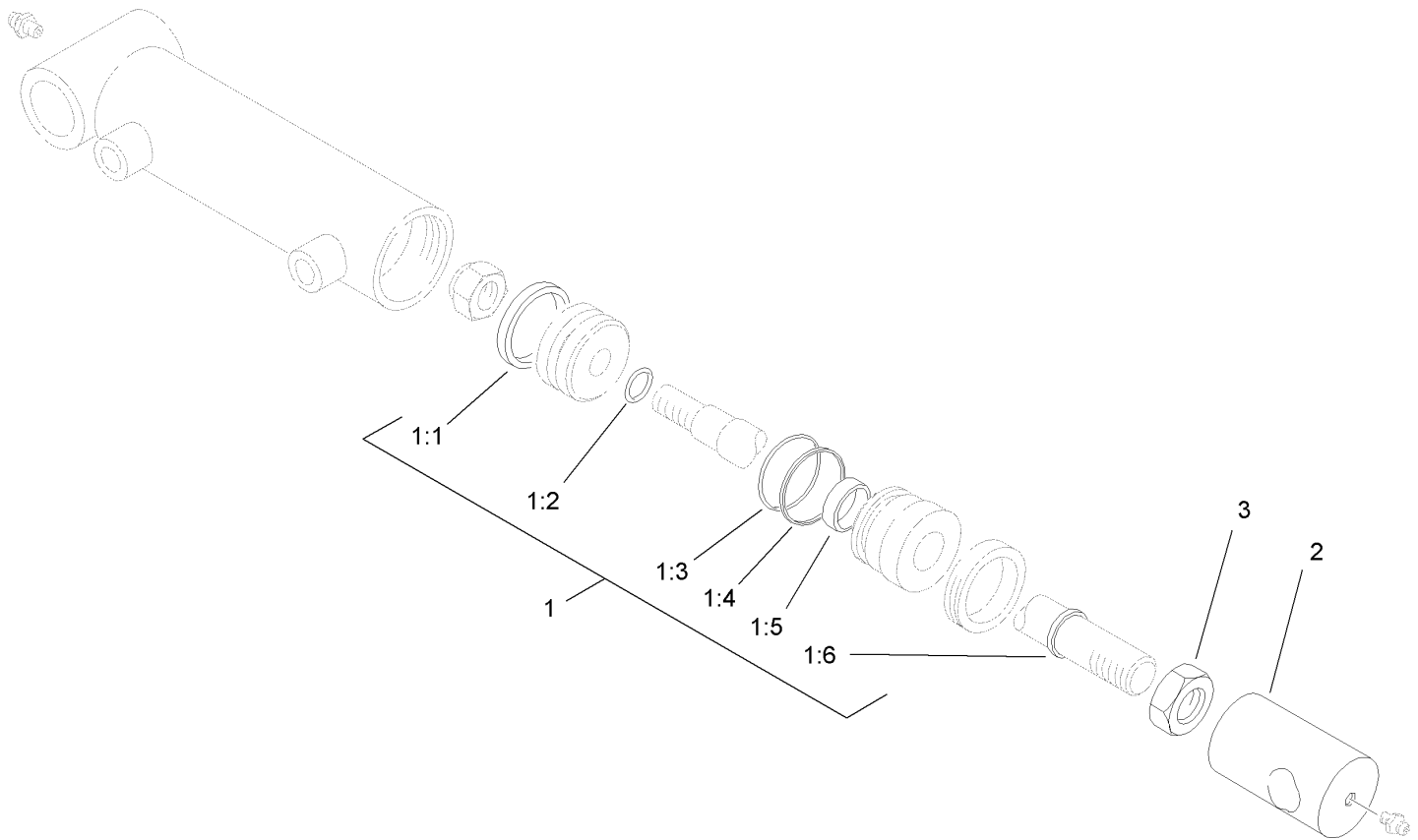


## Rear Lift Arm Assembly

| Ref  | Part No. | Qty. | Description                |
|------|----------|------|----------------------------|
| 1    | 104-0402 | 1    | Tube ASM                   |
| 2    | 340-70   | 5    | Nut-Lock                   |
| 3    | 340-68   | 2    | Fitting-Tee, Bulkhead      |
| 3:1  | 237-22   | 3    | O-Ring                     |
| 4    | 104-0407 | 1    | Hose ASM                   |
| 5    | 340-77   | 2    | Fitting-HYD, 90 DEG        |
| 5:1  | 237-22   | 1    | O-Ring                     |
| 5:2  | 237-42   | 1    | O-Ring                     |
| 6    | 99-3579  | 1    | Hose ASM                   |
| 7    | 104-0403 | 1    | Tube ASM                   |
| 8    | 340-71   | 1    | Fitting-Straight, Bulkhead |
| 8:1  | 237-22   | 2    | O-Ring                     |
| 10   | 108-9033 | 1    | Cylinder-HYD               |
| 11   | 3-6498   | 1    | Washer-Thrust              |
| 13   | 340-74   | 3    | Locknut-Bulkhead           |
| 14   | 340-72   | 1    | Fitting-Bulkhead, 90 DEG   |
| 14:1 | 237-65   | 2    | O-Ring                     |
| 15   | 108-9004 | 2    | Hose ASM                   |
| 16   | 94-6383  | 1    | Hose ASM                   |
| 17   | 104-0401 | 1    | Tube ASM                   |
| 18   | 104-0400 | 1    | Tube ASM                   |
| 19   | 104-0404 | 1    | Tube ASM                   |
| 20   | 99-3641  | 2    | Clamp-Tube                 |
| 21   | 3256-22  | 4    | Washer-Flat                |

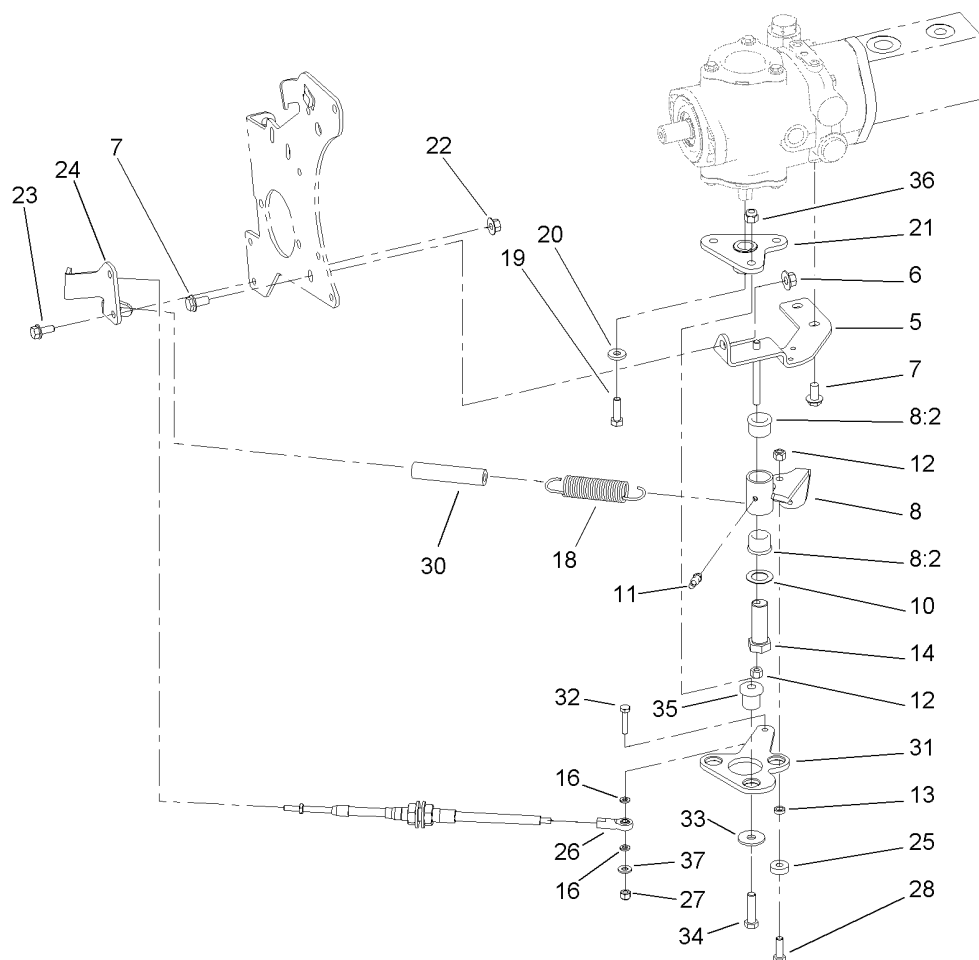
| Ref  | Part No.    | Qty. | Description               |
|------|-------------|------|---------------------------|
| 22   | 321-11      | 2    | Screw-HH                  |
| 23   | 3296-42     | 2    | Nut-Lock, NI              |
| 24   | 95-8990     | 1    | Shaft-Pivot, Rear         |
| 25   | 3220-9      | 1    | Nut-Jam                   |
| 26   | 86-1480     | 1    | Washer                    |
| 27   | 100-4938    | 1    | Rear Lift Arm ASM         |
| 27:1 | 69-6470     | 2    | Bushing-Caster            |
| 28   | 3234-27     | 1    | Screw-Flange              |
| 29   | 75-7730     | 1    | Washer-Thrust             |
| 30   | 302-5       | 1    | Fitting-Grease            |
| 31   | 100-4944    | 1    | Shaft-Pivot, Cutting Unit |
| 32   | 323-6       | 1    | Screw-HH                  |
| 33   | 323-4       | 1    | Screw-HH                  |
| 34   | 63-7400     | 1    | Washer-Rebound            |
| 35   | 3-6781      | 1    | Washer-Thrust             |
| 36   | 283-71      | 1    | Pin-Lynch                 |
| 42   | 104-0453-03 | 1    | Guard                     |
| 43   | 322-12      | 2    | Screw-HH                  |
| 44   | 322-3       | 2    | Screw-HH                  |
| 45   | 32128-20    | 4    | Nut-HF                    |
| 46   | 32120-93    | 3    | Ring-Retaining, EXT       |
| 47   | 95-8575     | 1    | Pin                       |
| 49   | 3334-945    | 2    | Tie-Cable                 |
| 50   | 104-4229    | 1    | Rear Carrier Frame ASM    |





## Hydraulic Cylinder Assembly No. 108-9033

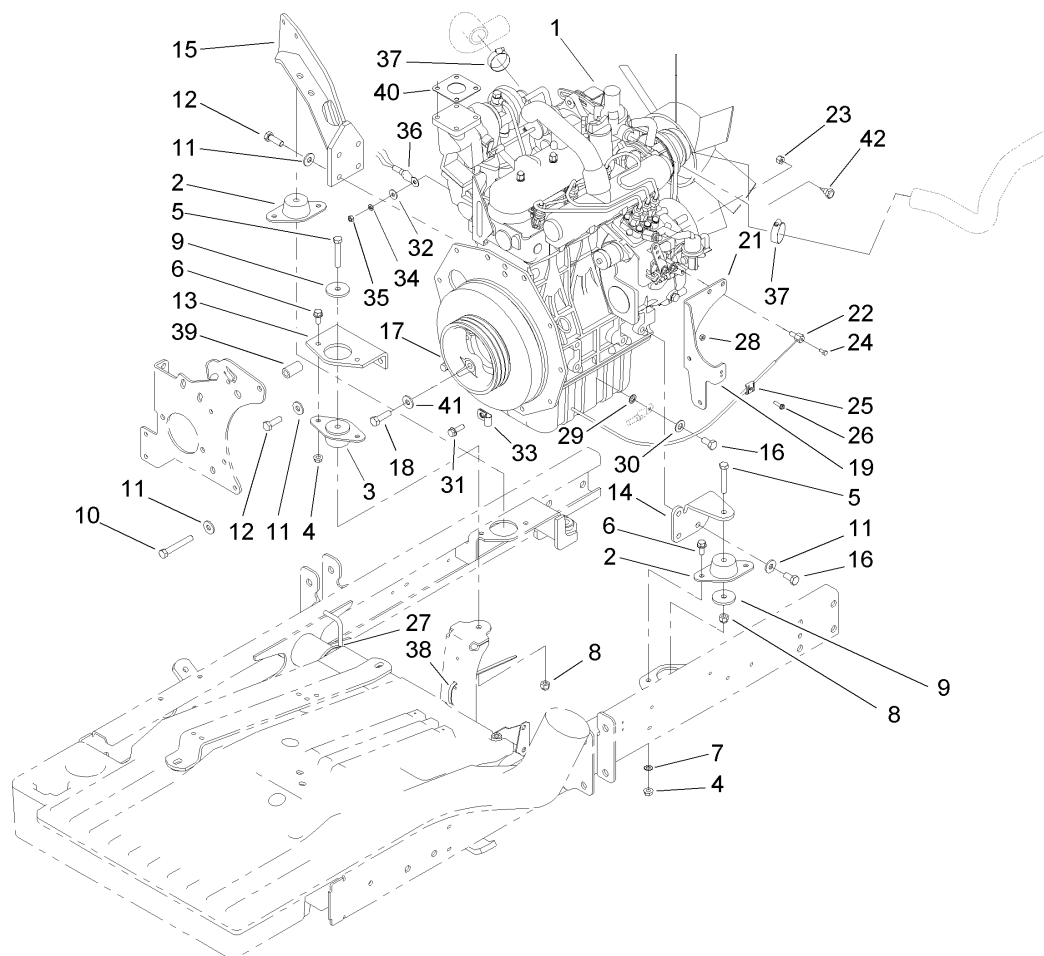
| Ref  | Part No. | Qty. | Description    |  |  |  |  |
|------|----------|------|----------------|--|--|--|--|
| 1    | 99-8163  | 1    | Seal Kit       |  |  |  |  |
| 21:1 |          | 1    | Uniring        |  |  |  |  |
| 21:2 |          | 1    | O-Ring         |  |  |  |  |
| 21:3 |          | 1    | O-Ring         |  |  |  |  |
| 21:4 |          | 1    | Washer-Back-Up |  |  |  |  |
| 21:5 |          | 1    | Seal-Dust      |  |  |  |  |
| 21:6 |          | 1    | Seal-Rod       |  |  |  |  |
| 2    | 108-9035 | 1    | Clevis         |  |  |  |  |
| 3    | 3220-7   | 1    | Nut-Jam        |  |  |  |  |



## Neutral Arm Assembly

| Ref | Part No.    | Qty. | Description            |
|-----|-------------|------|------------------------|
| 5   | 95-8960-03  | 1    | Bracket-Neutral        |
| 6   | 32128-43    | 1    | Nut-Flange             |
| 7   | 3234-1      | 3    | Screw-HHF              |
| 8   | 104-0422    | 1    | Neutral Arm ASM        |
| 8:2 | 256-113     | 2    | Bushing-Flange         |
| 10  | 3-6498      | 1    | Washer-Thrust          |
| 11  | 302-60      | 1    | Fitting-Grease, 90 DEG |
| 12  | 3296-29     | 2    | Nut-Lock, NI           |
| 13  | 100-4817    | 1    | Spacer-Bearing         |
| 14  | 76-8640     | 1    | Stud-Traction          |
| 16  | 33093-00    | 2    | Washer-Flat            |
| 18  | 94-1369     | 1    | Spring-Extension       |
| 19  | 3210-6      | 1    | Screw-HH               |
| 20  | 88-7200     | 1    | Washer-Flat            |
| 21  | 99-3598-03  | 1    | Hub ASM                |
| 22  | 32128-44    | 2    | Nut                    |
| 23  | 3234-5      | 2    | Screw-HHF              |
| 24  | 104-0464-03 | 1    | Bracket-Support, Cable |
| 25  | 251-259     | 1    | Bearing-Ball           |
| 26  | 2411-41     | 1    | Joint-Ball             |
| 27  | 3296-42     | 1    | Nut-Lock, NI           |
| 28  | 3274-104    | 1    | Screw-HSBH             |
| 30  | 99-3556     | 1    | Hose                   |
| 31  | 99-3594-03  | 1    | Lever-Pump             |

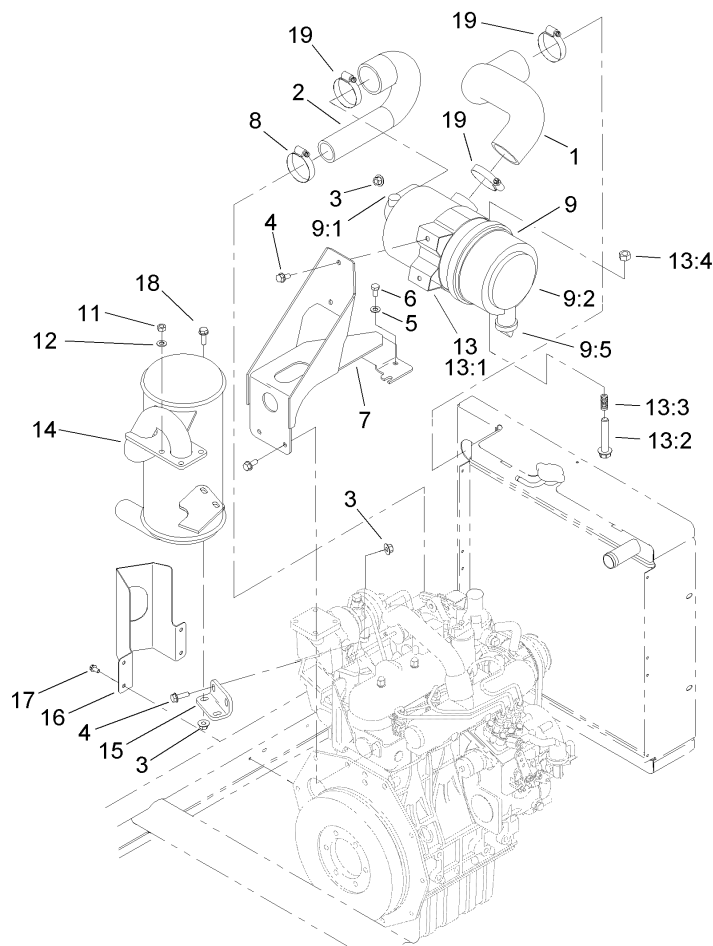
| Ref | Part No. | Qty. | Description  |
|-----|----------|------|--------------|
| 32  | 321-8    | 1    | Screw-HH     |
| 33  | 2844     | 3    | Washer       |
| 34  | 95-3857  | 3    | Screw-HSBH   |
| 35  | 63-9750  | 3    | Mount        |
| 36  | 3296-39  | 3    | Nut-Lock, NI |
| 37  | 3256-22  | 1    | Washer-Flat  |



## Engine Assembly

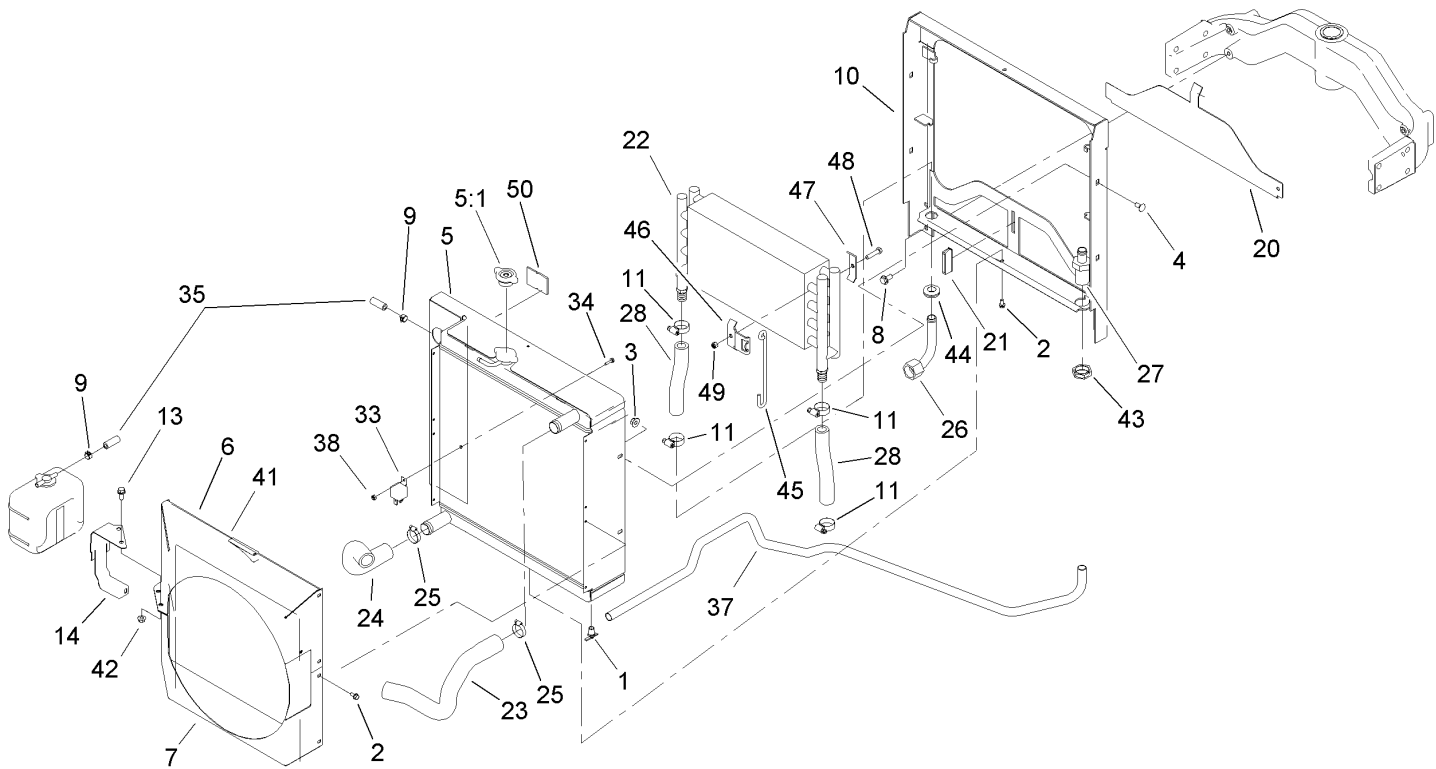
| Ref | Part No.    | Qty. | Description              |
|-----|-------------|------|--------------------------|
| 1   | 107-7822    | 1    | Engine-Diesel            |
| 2   | 83-1030     | 2    | Mount-Engine             |
| 3   | 93-5265     | 1    | Mount-Engine             |
| 4   | 32128-20    | 6    | Nut-HF                   |
| 5   | 323-11      | 3    | Screw-HH                 |
| 6   | 3234-5      | 6    | Screw-HHF                |
| 7   | 3255-8      | 1    | Washer-Lock              |
| 8   | 3296-39     | 3    | Nut-Lock, NI             |
| 9   | 80-8560     | 3    | Washer-Hardened          |
| 10  | 42-9370     | 1    | Screw-HH                 |
| 11  | 80-6990     | 9    | Washer-Hardened          |
| 12  | 95-8812     | 5    | Screw-HH                 |
| 13  | 99-3618-03  | 1    | Mount-Engine, Front      |
| 14  | 95-8937-03  | 1    | Mount-Engine, LH         |
| 15  | 100-4838-03 | 1    | Mount-Engine             |
| 16  | 63-7790     | 4    | Screw-Cap                |
| 17  | 99-3626-03  | 1    | Pulley                   |
| 18  | 56-2140     | 3    | Bolt                     |
| 19  | 32128-44    | 2    | Nut                      |
| 21  | 100-4867-03 | 1    | Support-Throttle, Filter |
| 22  | 98-9311     | 1    | Swivel-Throttle          |
| 23  | 3296-20     | 1    | Nut-Lock, NI             |
| 24  | 25-8640     | 1    | Screw-HH                 |
| 25  | 81-1690     | 1    | Clamp-Cable              |

| Ref | Part No. | Qty. | Description                |
|-----|----------|------|----------------------------|
| 26  | 32105-13 | 1    | Screw-SHH                  |
| 27  | 3290-379 | 2    | Tie-Cable                  |
| 28  | 3296-2   | 1    | Nut-Lock                   |
| 29  | 3255-9   | 1    | Washer-Lock                |
| 30  | 3256-25  | 1    | Washer-Flat                |
| 31  | 3234-17  | 2    | Screw-HHF                  |
| 32  | 3256-78  | 1    | Washer-Flat                |
| 33  | 2412-10  | 1    | R-Clamp                    |
| 34  | 43-5930  | 1    | Washer-Spring              |
| 35  | 48-7890  | 1    | Nut                        |
| 36  | 99-3441  | 1    | Harness-Wire, Fusible Link |
| 37  | 2412-34  | 2    | Clamp-Hose                 |
| 38  | 3290-378 | 14   | Tie-Cable                  |
| 39  | 95-8736  | 1    | Spacer                     |
| 40  | 98-9611  | 1    | Gasket                     |
| 41  | 3256-24  | 3    | Washer-Flat                |
| 42  | 106-7772 | 1    | Thermoswitch               |



## Air Cleaner and Muffler Assembly

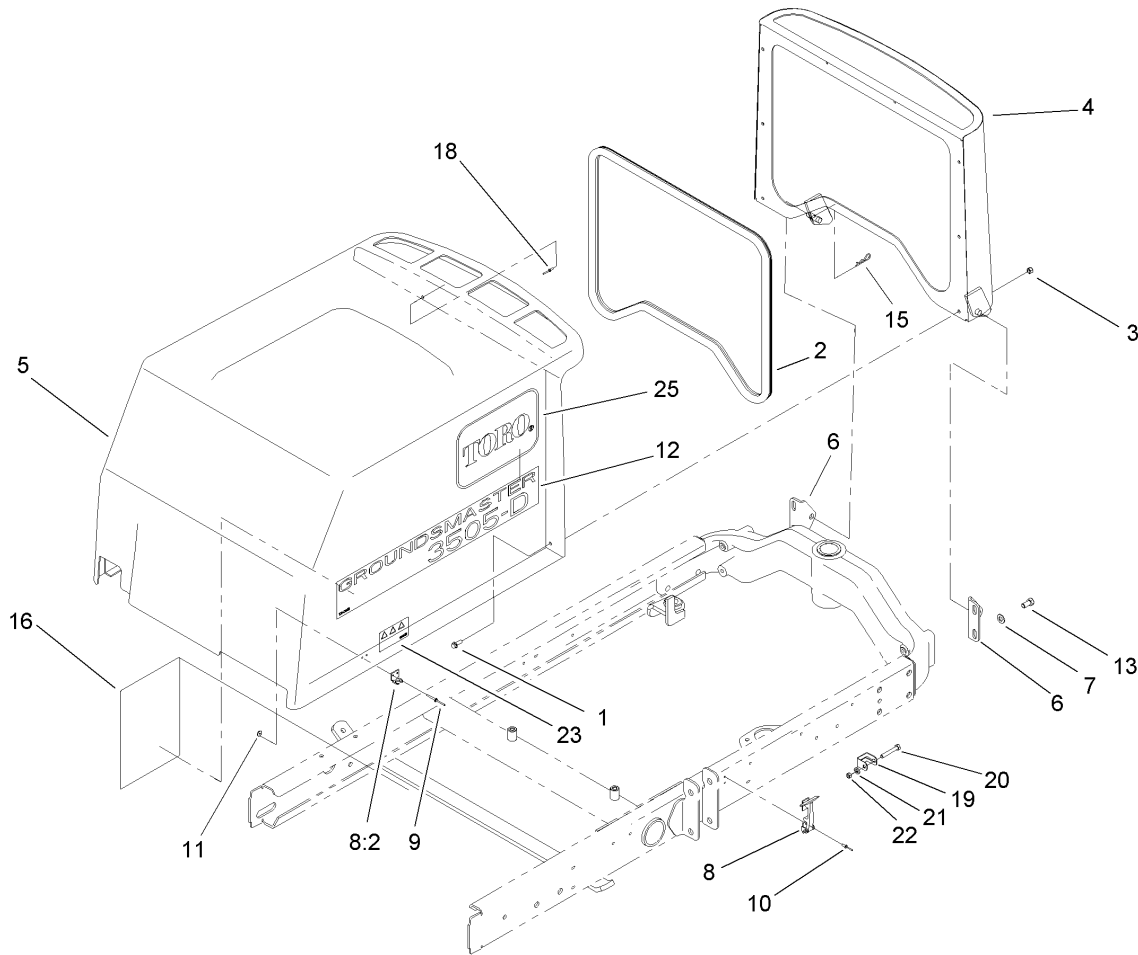
| Ref  | Part No.   | Qty. | Description                | Ref | Part No. | Qty. | Description |
|------|------------|------|----------------------------|-----|----------|------|-------------|
| 1    | 104-0420   | 1    | Hose-Air Intake, Upper     | 17  | 32144-4  | 4    | Screw-HWH   |
| 2    | 99-3643    | 1    | Hose-Air Intake, Lower     | 18  | 3234-17  | 3    | Screw-HHF   |
| 3    | 32128-44   | 6    | Nut                        | 19  | 2412-130 | 3    | Clamp-Hose  |
| 4    | 3234-5     | 3    | Screw-HHF                  |     |          |      |             |
| 5    | 3256-23    | 4    | Washer-Flat                |     |          |      |             |
| 6    | 33114-016  | 4    | Screw-HH                   |     |          |      |             |
| 7    | 99-3648-03 | 1    | Air Filter Mount ASM       |     |          |      |             |
| 8    | 2412-92    | 1    | Clamp-Hose                 |     |          |      |             |
| 9    | 100-4824   | 1    | Air Cleaner ASM            |     |          |      |             |
| 9:1  | 285-17     | 1    | Plug-Pipe                  |     |          |      |             |
| 9:2  | 104-0497   | 1    | Cover ASM                  |     |          |      |             |
| 9:5  | 104-0498   | 1    | Valve-Vacuator             |     |          |      |             |
| 9:6  | 108-3810   | 1    | Filter-Air                 |     |          |      |             |
| 9:7  | 104-4897   | 1    | Gasket                     |     |          |      |             |
| 11   | 33014-00   | 4    | Nut-Hex                    |     |          |      |             |
| 12   | 3253-4     | 4    | Washer-Lock                |     |          |      |             |
| 13   | 100-4825   | 1    | Band-Mounting, Air Cleaner |     |          |      |             |
| 13:1 |            | 1    | Clamp ASM                  |     |          |      |             |
| 13:2 | 94-3653    | 1    | Bolt                       |     |          |      |             |
| 13:3 | 94-3654    | 1    | Spring                     |     |          |      |             |
| 13:4 | 48-9510    | 1    | Nut                        |     |          |      |             |
| 14   | 100-4810   | 1    | Muffler                    |     |          |      |             |
| 15   | 95-8943-03 | 1    | Bracket-Muffler            |     |          |      |             |
| 16   | 99-3425-03 | 1    | Guard-Exhaust              |     |          |      |             |



Water overflow bottle  
is furnished with engine

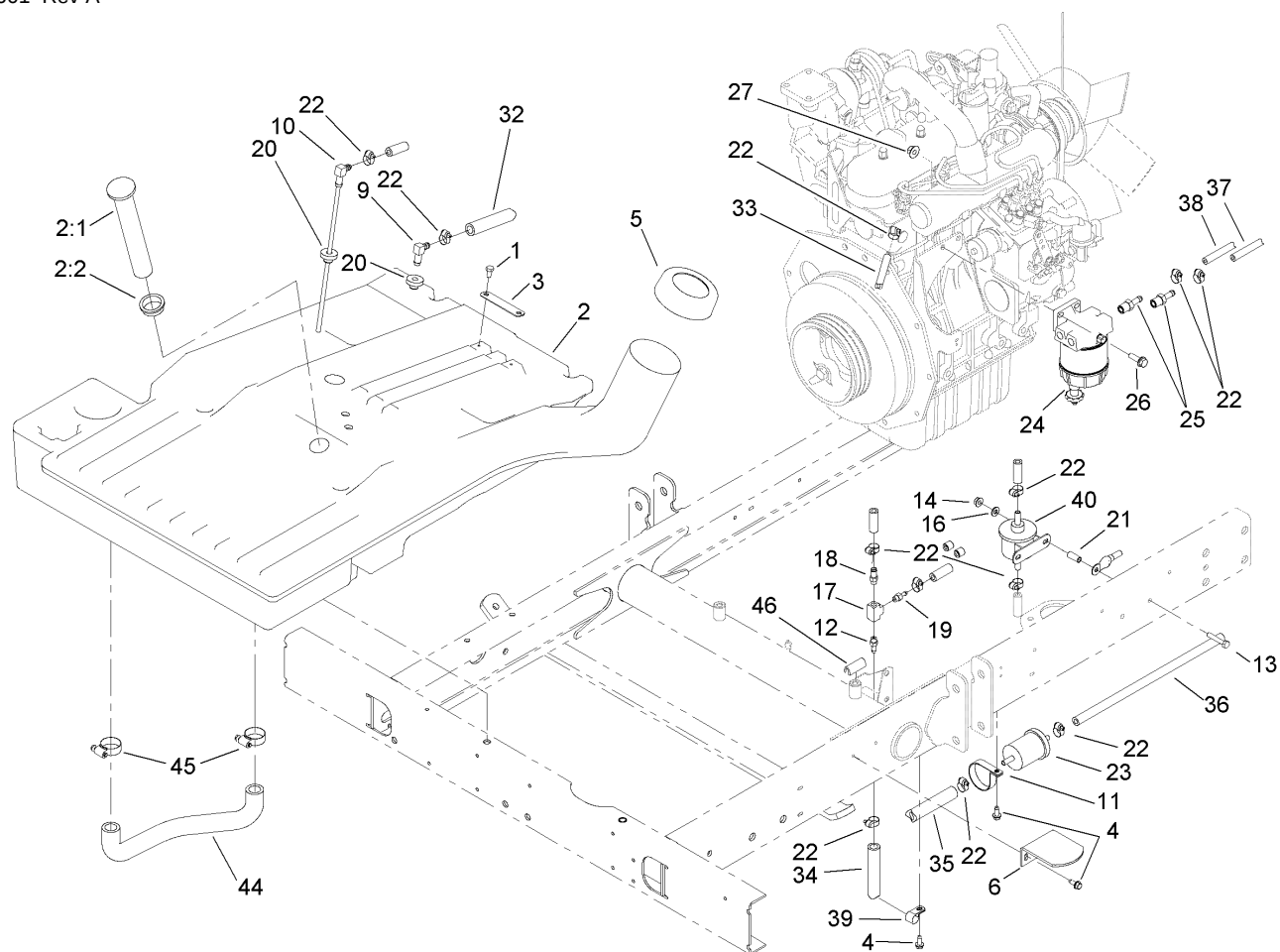
Radiator Assembly

| Ref | Part No.    | Qty. | Description            | Ref | Part No. | Qty. | Description            |
|-----|-------------|------|------------------------|-----|----------|------|------------------------|
| 1   | 304-46      | 1    | Draincock              | 34  | 32105-13 | 1    | Screw-SHH              |
| 2   | 32104-116   | 11   | Screw                  | 35  | 109-0274 | 1    | Hose-Fuel              |
| 3   | 32128-44    | 4    | Nut                    | 37  | 100-4924 | 1    | Tube ASM               |
| 4   | 3230-1      | 4    | Bolt-CARR              | 38  | 32128-17 | 1    | Nut-Lock, Flange       |
| 5   | 99-3637     | 1    | Radiator               | 41  | 93-6681  | 1    | Decal-Warning, Fan     |
| 5:1 | 93-5957     | 1    | Cap-Radiator           | 42  | 32128-20 | 2    | Nut-HF                 |
| 6   | 100-4885-03 | 1    | Shroud-Fan, Top        | 43  | 340-126  | 1    | Nut-Bulkhead           |
| 7   | 100-4898-03 | 1    | Shroud-Fan, Bottom     | 44  | 100-4866 | 1    | Grommet                |
| 8   | 3234-1      | 4    | Screw-HHF              | 45  | 100-4858 | 2    | Form-Wire              |
| 9   | 92-2379     | 2    | Clamp-Hose             | 46  | 100-4859 | 2    | Bracket-Cooler, Keeper |
| 10  | 104-4855-03 | 1    | Radiator Frame ASM     | 47  | 100-4860 | 2    | Bracket-Clamp          |
| 11  | 2412-129    | 4    | Clamp-Hose             | 48  | 322-17   | 2    | Screw-HH               |
| 13  | 3234-5      | 2    | Screw-HHF              | 49  | 3296-47  | 2    | Nut-Lock, NI           |
| 14  | 100-4899-03 | 1    | Bracket-Reservoir      | 50  | 104-9459 | 2    | Seal-Foam              |
| 20  | 95-8702-03  | 1    | Shield-Radiator, Lower |     |          |      |                        |
| 21  | 99-3497     | 1    | Magnet                 |     |          |      |                        |
| 22  | 100-4869    | 1    | Cooler-Oil             |     |          |      |                        |
| 23  | 104-0454    | 1    | Hose-Radiator, Upper   |     |          |      |                        |
| 24  | 100-4809    | 1    | Hose-Radiator, Lower   |     |          |      |                        |
| 25  | 2412-34     | 2    | Clamp-Hose             |     |          |      |                        |
| 26  | 99-3644     | 1    | Filter Head Tube ASM   |     |          |      |                        |
| 27  | 100-4925    | 1    | Fitting-Bulkhead       |     |          |      |                        |
| 28  | 99-3646     | 2    | Hose-Cooler, Oil       |     |          |      |                        |
| 33  | 99-7435     | 1    | Relay-Power            |     |          |      |                        |



Hood Assembly

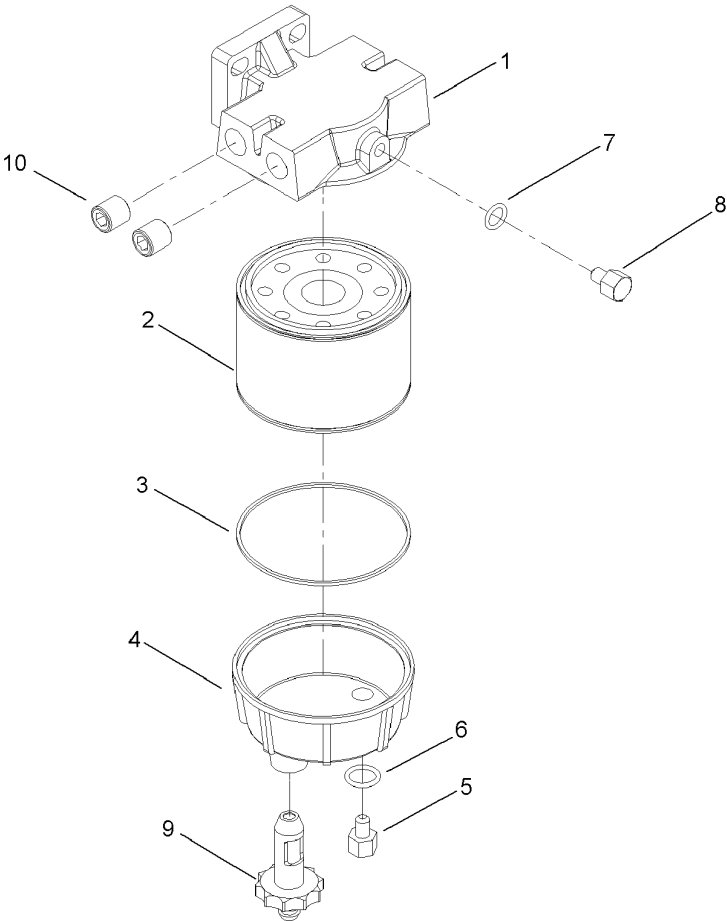
| Ref  | Part No.    | Qty. | Description          |  |  |  |  |
|------|-------------|------|----------------------|--|--|--|--|
| 1    | 3234-4      | 6    | Screw-HHF            |  |  |  |  |
| 2    | 100-4932    | 1    | Trim-Seal            |  |  |  |  |
| 3    | 3296-42     | 6    | Nut-Lock, NI         |  |  |  |  |
| 4    | 104-4853-03 | 1    | Hood Screen ASM      |  |  |  |  |
| 5    | 100-4855    | 1    | Hood                 |  |  |  |  |
| ①5:5 | 106-8115    | 1    | Heat Tape Repair Kit |  |  |  |  |
| 6    | 95-8728     | 2    | Bracket-Pivot, Hood  |  |  |  |  |
| 7    | 3256-24     | 8    | Washer-Flat          |  |  |  |  |
| 8    | 59-9740     | 2    | Flex Draw Latch ASM  |  |  |  |  |
| 8:2  | 249-40      | 1    | Keeper               |  |  |  |  |
| 9    | 98-7310     | 4    | Rivet                |  |  |  |  |
| 10   | 3290-55     | 4    | Rivet-Pop            |  |  |  |  |
| 11   | 3269-10     | 4    | Washer-Back          |  |  |  |  |
| 12   | 108-9007    | 2    | Decal-Hood           |  |  |  |  |
| 13   | 323-6       | 4    | Screw-HH             |  |  |  |  |
| 15   | 3290-467    | 1    | Pin-Hair             |  |  |  |  |
| 16   | 107-7800    | 1    | Decal-Service        |  |  |  |  |
| 18   | 3269-21     | 2    | Rivet-Pop            |  |  |  |  |
| 19   | 99-3568     | 1    | Bracket-Lock, Ce     |  |  |  |  |
| 20   | 321-9       | 1    | Screw-HH             |  |  |  |  |
| 21   | 3256-22     | 1    | Washer-Flat          |  |  |  |  |
| 22   | 3296-42     | 1    | Nut-Lock, NI         |  |  |  |  |
| 23   | 106-6754    | 1    | Decal-Danger         |  |  |  |  |
| 25   | 66-6140     | 2    | Decal                |  |  |  |  |



## Fuel Tank Assembly

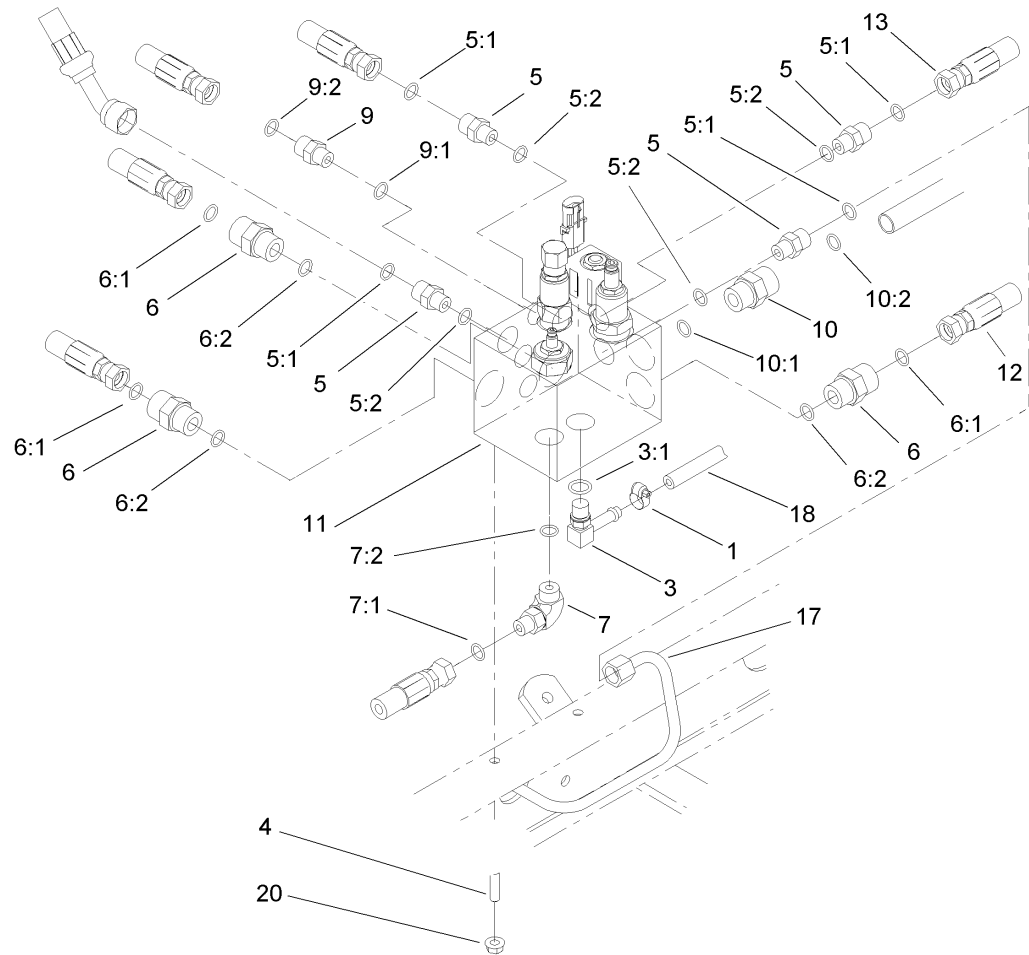
| Ref | Part No.   | Qty. | Description             |
|-----|------------|------|-------------------------|
| 1   | 321-2      | 2    | Screw-HH                |
| 2   | 105-7865   | 1    | Tank-Fuel               |
| 2:1 | 95-8971    | 1    | Guage-Fuel              |
| 2:2 | 95-8972    | 1    | Grommet                 |
| 3   | 95-8881    | 1    | Strap-Line, Fuel        |
| 4   | 32144-10   | 4    | Screw-HWH               |
| 5   | 95-4193    | 1    | Diesel Fuel Cap ASM     |
| 6   | 95-8968-03 | 1    | Support-Tank, Fuel      |
| 9   | 46-6550    | 1    | Fitting-Elbow, 90 DEG   |
| 10  | 66-8121    | 1    | Standpipe               |
| 11  | 2412-148   | 1    | Clamp-R                 |
| 12  | 304-73     | 1    | Connector-Hose          |
| 13  | 321-9      | 2    | Screw-HH                |
| 14  | 32128-33   | 2    | Nut-HF                  |
| 16  | 3256-22    | 2    | Washer-Flat             |
| 17  | 354-20     | 1    | Fitting-Tee             |
| 18  | 354-21     | 1    | Fitting-Barb            |
| 19  | 354-22     | 1    | Fitting-Barb            |
| 20  | 46-6560    | 2    | Bushing                 |
| 21  | 87-4710    | 2    | Spacer-Brake, Parking   |
| 22  | 2412-108   | 13   | Clamp-Worm              |
| 23  | 98-7612    | 1    | Filter-Fuel             |
| 24  | 98-9305    | 1    | Water / Fuel Filter ASM |
| 25  | 353-783    | 2    | Fitting-Straight        |

| Ref | Part No. | Qty. | Description         |
|-----|----------|------|---------------------|
| 26  | 3234-17  | 2    | Screw-HHF           |
| 27  | 32128-44 | 2    | Nut                 |
| 32  | 110-6187 | 1    | Hose-Fuel           |
| 33  | 110-8751 | 1    | Hose-Fuel           |
| 34  | 110-5701 | 1    | Hose-Fuel           |
| 35  | 110-6186 | 1    | Hose-Fuel           |
| 36  | 110-4110 | 1    | Hose-Fuel           |
| 37  | 110-8752 | 1    | Hose-Fuel           |
| 38  | 104-4857 | 1    | Hose-Fuel           |
| 39  | 2412-73  | 1    | Clamp-R             |
| 40  | 107-0122 | 1    | Pump-Fuel, Electric |
| 44  | 105-4094 | 1    | Hose-Formed         |
| 45  | 2412-129 | 2    | Clamp-Hose          |
| 46  | 110-8754 | 1    | Trim                |



**Water and Fuel Filter Assembly No. 98-9305**

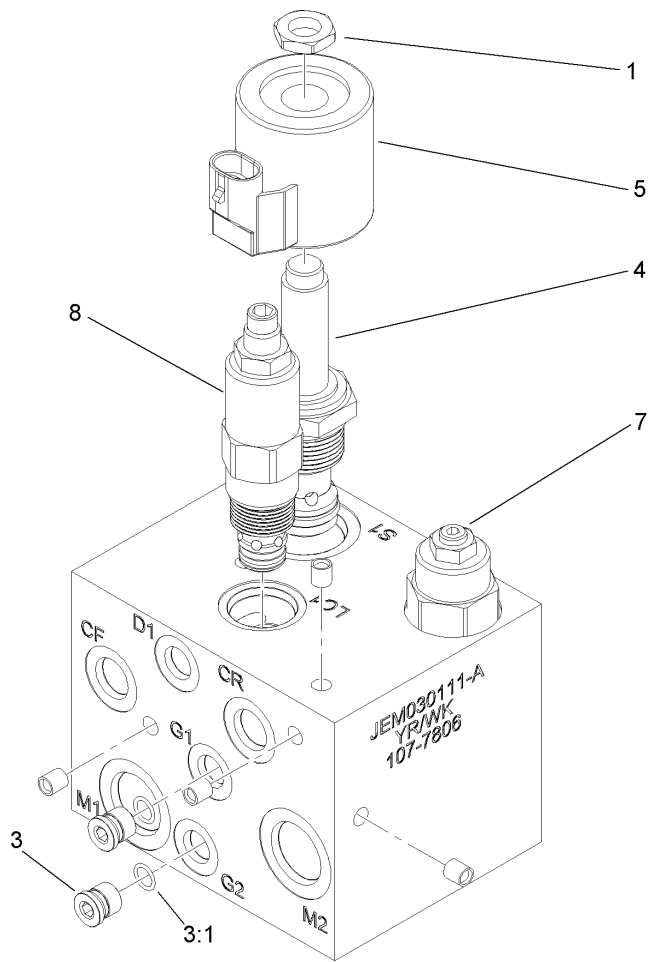
| Ref | Part No. | Qty. | Description       |  |  |  |  |
|-----|----------|------|-------------------|--|--|--|--|
| 1   | 98-9772  | 1    | Head-Filter       |  |  |  |  |
| 2   | 98-9764  | 1    | Element           |  |  |  |  |
| 3   | 98-9774  | 1    | O-Ring            |  |  |  |  |
| 4   | 98-9775  | 1    | Base-Filter       |  |  |  |  |
| 5   | 98-9773  | 1    | Plug-Base, Filter |  |  |  |  |
| 6   | 237-42   | 1    | O-Ring            |  |  |  |  |
| 7   | 237-78   | 1    | O-Ring            |  |  |  |  |
| 8   | 98-9776  | 1    | Plug-Head, Filter |  |  |  |  |
| 9   | 98-9777  | 1    | Drain Valve ASM   |  |  |  |  |
| 10  | 285-22   | 2    | Plug-Pipe         |  |  |  |  |



# Manifold Block Installation Assembly

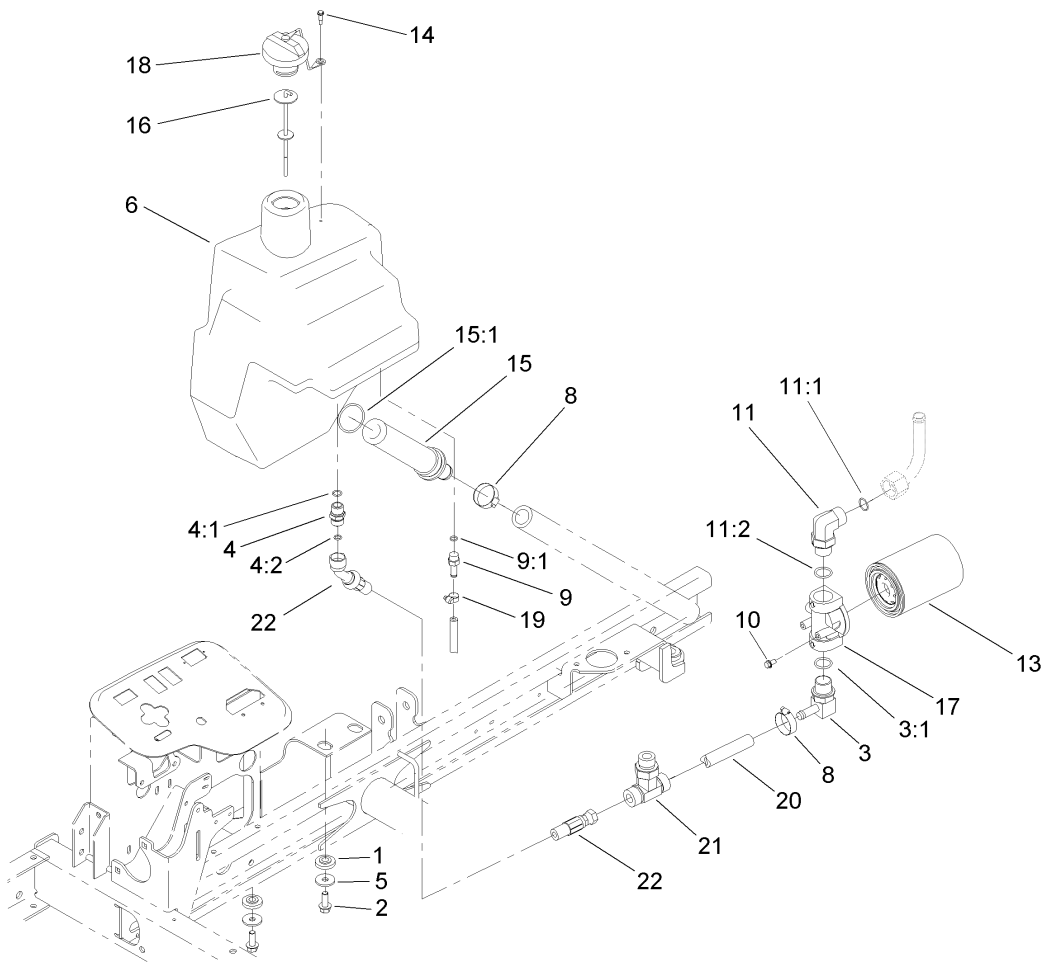
| Ref  | Part No. | Qty. | Description           |
|------|----------|------|-----------------------|
| 1    | 2412-36  | 1    | Clamp-Hose            |
| 3    | 100-4887 | 1    | Fitting-Barb          |
| 3:1  | 237-42   | 1    | O-Ring                |
| 4    | 104-0430 | 2    | Stud                  |
| 5    | 340-2    | 4    | Fitting-HYD, Straight |
| 5:1  | 237-22   | 1    | O-Ring                |
| 5:2  | 237-42   | 1    | O-Ring                |
| 6    | 340-7    | 3    | Adapter               |
| 6:1  | 237-65   | 1    | O-Ring                |
| 6:2  | 237-80   | 1    | O-Ring                |
| 7    | 340-77   | 1    | Fitting-HYD, 90 DEG   |
| 7:1  | 237-22   | 1    | O-Ring                |
| 7:2  | 237-42   | 1    | O-Ring                |
| 9    | 340-88   | 1    | Adapter               |
| 9:1  | 237-22   | 1    | O-Ring                |
| 9:2  | 237-78   | 1    | O-Ring                |
| 10   | 340-66   | 1    | Fitting-HYD           |
| 10:1 | 237-80   | 1    | O-Ring                |
| 10:2 | 237-58   | 1    | O-Ring                |
| 11   | 107-7806 | 1    | Manifold Block ASM    |
| 12   | 104-0488 | 1    | Hose ASM              |
| 13   | 92-7595  | 1    | Hose ASM              |
| 17   | 108-9005 | 1    | Tube ASM              |
| 18   | 80-7342  | 1    | Hose ASM              |

| Ref | Part No. | Qty. | Description |
|-----|----------|------|-------------|
| 20  | 32128-20 | 2    | Nut-HF      |



Manifold Block Assembly No. 107-7806

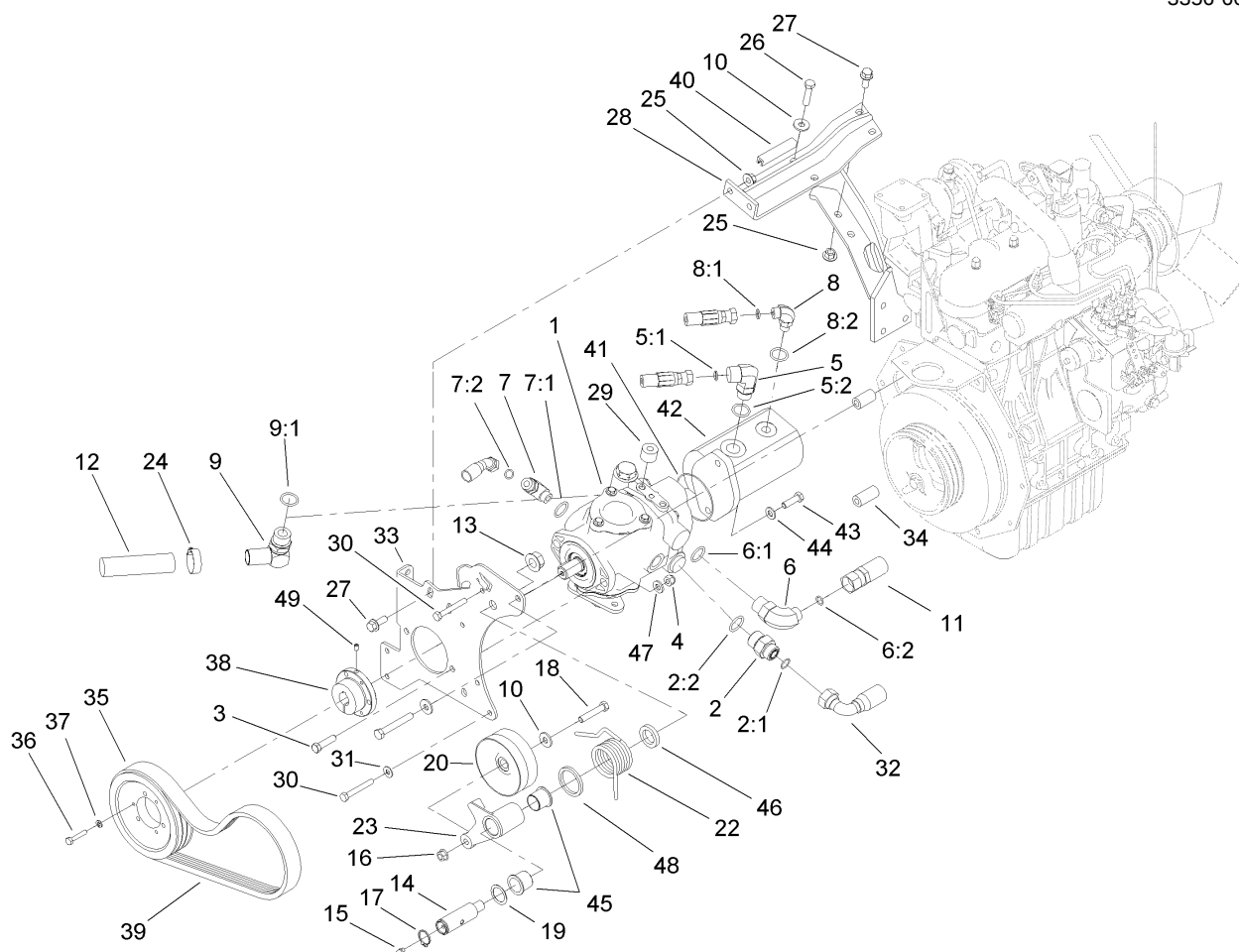
| Ref | Part No. | Qty. | Description     |  |  |  |  |
|-----|----------|------|-----------------|--|--|--|--|
| 1   | 107-7812 | 1    | Nut-Solenoid    |  |  |  |  |
| ❶2  | 107-7815 | 1    | Seal Kit        |  |  |  |  |
| 3   | 353-512  | 2    | Plug            |  |  |  |  |
| 3:1 | 237-78   | 1    | O-Ring          |  |  |  |  |
| 4   | 107-7809 | 1    | Cartridge ASM   |  |  |  |  |
| 5   | 107-7811 | 1    | Solenoid        |  |  |  |  |
| ❶6  | 107-7813 | 1    | Seal Kit        |  |  |  |  |
| 7   | 107-7810 | 1    | Valve-Braking   |  |  |  |  |
| 8   | 107-7808 | 1    | Cartridge-Logic |  |  |  |  |
| ❶9  | 107-7814 | 1    | Seal Kit        |  |  |  |  |



Hydraulic Tank Assembly

| Ref  | Part No. | Qty. | Description         |
|------|----------|------|---------------------|
| 1    | 240-11   | 4    | Bushing-Flange      |
| 2    | 3234-11  | 4    | Screw-HHF           |
| 3    | 353-987  | 1    | Fitting-HYD, 90     |
| 3:1  | 237-81   | 1    | O-Ring              |
| 4    | 100-4890 | 1    | Fitting-Check       |
| 4:1  | 237-79   | 1    | O-Ring              |
| 4:2  | 237-30   | 1    | O-Ring              |
| 5    | 63-8410  | 4    | Washer              |
| 6    | 104-4840 | 1    | Tank-HYD            |
| 8    | 2412-34  | 2    | Clamp-Hose          |
| 9    | 353-979  | 1    | Fitting-Straight    |
| 9:1  | 237-42   | 1    | O-Ring              |
| 10   | 3234-13  | 2    | Screw-HHF           |
| 11   | 340-142  | 1    | Fitting-HYD, 90 DEG |
| 11:1 | 237-58   | 1    | O-Ring              |
| 11:2 | 237-81   | 1    | O-Ring              |
| 13   | 86-3010  | 1    | Filter-Oil          |
| 14   | 57-5420  | 1    | Screw-Shoulder      |
| 15   | 104-7546 | 1    | Strainer-Tank       |
| 15:1 | 340-136  | 1    | O-Ring              |
| 16   | 75-3710  | 1    | Dipstick            |
| 17   | 92-5821  | 1    | Filter Head ASM     |
| 18   | 93-7160  | 1    | Cap-Oil, HYD        |
| 19   | 2412-36  | 1    | Clamp-Hose          |

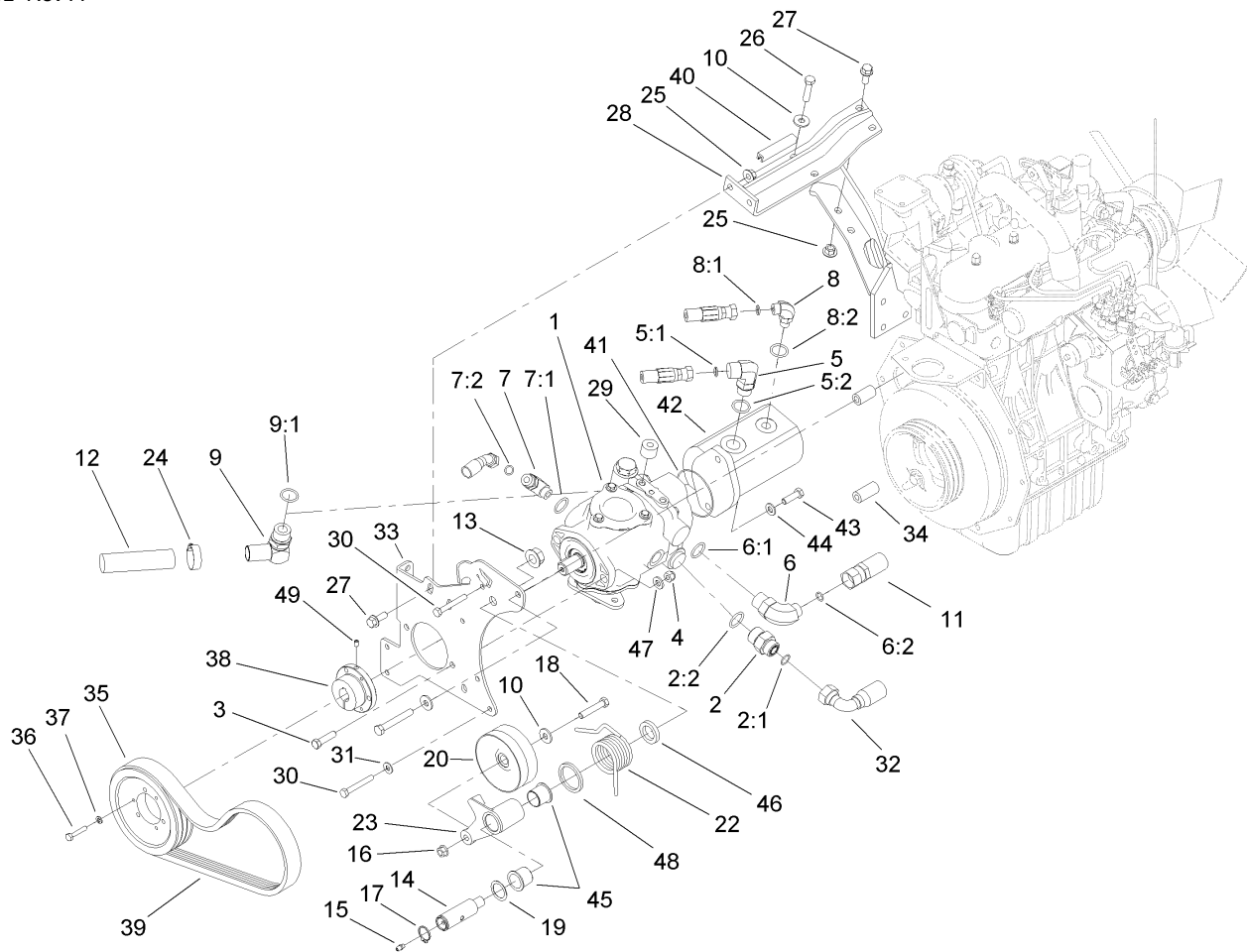
| Ref | Part No. | Qty. | Description |
|-----|----------|------|-------------|
| 20  | 104-0486 | 1    | Hose ASM    |
| 21  | 104-4836 | 1    | Fitting-Tee |
| 22  | 104-0487 | 1    | Hose ASM    |



## Hydrostat Assembly

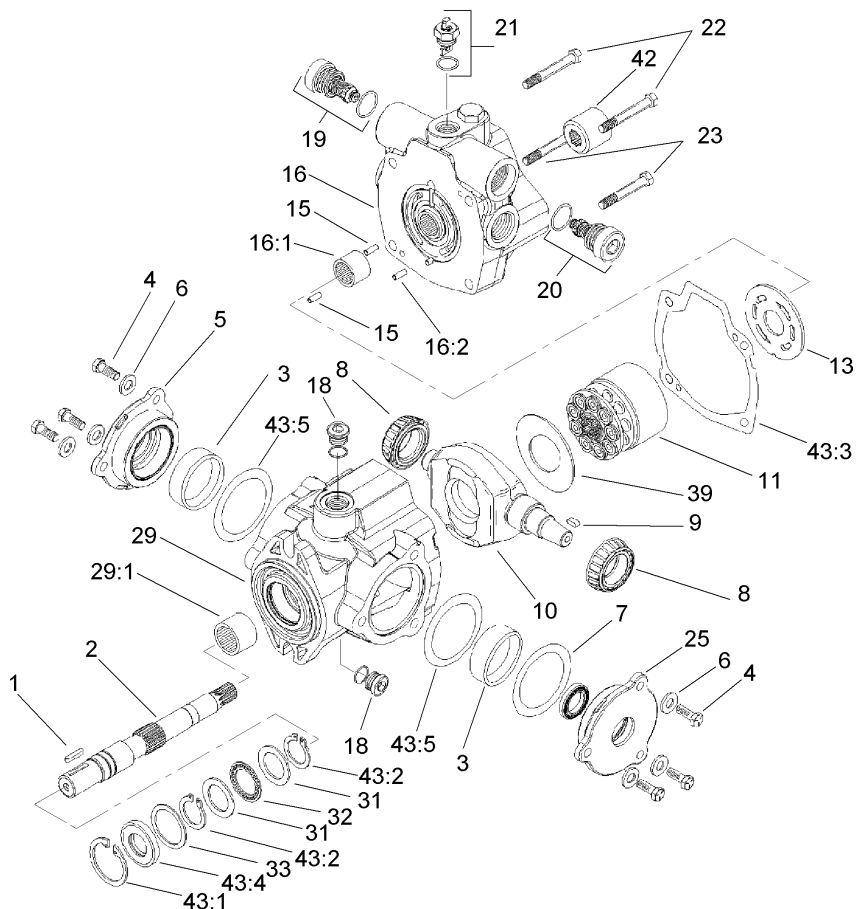
| Ref | Part No. | Qty. | Description         |
|-----|----------|------|---------------------|
| 1   | 104-4890 | 1    | Pump-Piston         |
| 2   | 340-8    | 1    | Adapter             |
| 2:1 | 237-65   | 1    | O-Ring              |
| 2:2 | 237-81   | 1    | O-Ring              |
| 3   | 323-8    | 2    | Screw-HH            |
| 4   | 3296-39  | 2    | Nut-Lock, NI        |
| 5   | 340-17   | 1    | Fitting-HYD, 90 DEG |
| 5:1 | 237-65   | 1    | O-Ring              |
| 5:2 | 237-80   | 1    | O-Ring              |
| 6   | 340-139  | 1    | Fitting-HYD, 90 DEG |
| 6:1 | 237-81   | 1    | O-Ring              |
| 6:2 | 237-65   | 1    | O-Ring              |
| 7   | 340-18   | 1    | Fitting-HYD, 90 DEG |
| 7:1 | 237-79   | 1    | O-Ring              |
| 7:2 | 237-22   | 1    | O-Ring              |
| 8   | 340-77   | 1    | Fitting-HYD, 90 DEG |
| 8:1 | 237-22   | 1    | O-Ring              |
| 8:2 | 237-42   | 1    | O-Ring              |
| 9   | 95-3502  | 1    | Fitting-Elbow       |
| 9:1 | 237-81   | 1    | O-Ring              |
| 10  | 80-6990  | 3    | Washer-Hardened     |
| 11  | 108-9008 | 1    | Hose ASM            |
| 12  | 104-5486 | 1    | Hose                |
| 13  | 32128-54 | 1    | Nut-HF              |

| Ref | Part No.   | Qty. | Description         |
|-----|------------|------|---------------------|
| 14  | 99-3624    | 1    | Shaft-Pivot, Idler  |
| 15  | 302-5      | 1    | Fitting-Grease      |
| 16  | 32128-21   | 1    | Nut-HF              |
| 17  | 32151-36   | 1    | Ring-Retaining      |
| 18  | 323-10     | 1    | Screw-HH            |
| 19  | 74-1810    | 1    | Washer              |
| 20  | 107-7834   | 1    | Pulley-Idler        |
| 22  | 100-4844   | 1    | Spring-Torsion      |
| 23  | 99-3623-03 | 1    | Arm-Idler           |
| 24  | 2412-34    | 1    | Clamp-Hose          |
| 25  | 32128-43   | 4    | Nut-Flange          |
| 26  | 323-19     | 2    | Screw-HH            |
| 27  | 3234-11    | 4    | Screw-HHF           |
| 28  | 99-3436-03 | 1    | Support-Pump        |
| 29  | 99-3440    | 2    | Spacer              |
| 30  | 33114-060  | 4    | Screw-HH            |
| 31  | 87-8640    | 3    | Washer-Flat         |
| 32  | 105-1214   | 1    | Hose ASM            |
| 33  | 95-8933-03 | 1    | Plate-Mount, Pump   |
| 34  | 95-8941    | 4    | Spacer-Mount, Pump  |
| 35  | 99-3620    | 1    | Pulley-3V, Pump     |
| 36  | 321-13     | 3    | Screw-HH            |
| 37  | 3253-3     | 3    | Washer-Lock         |
| 38  | 100-4813   | 1    | Bushing-Lock, Taper |



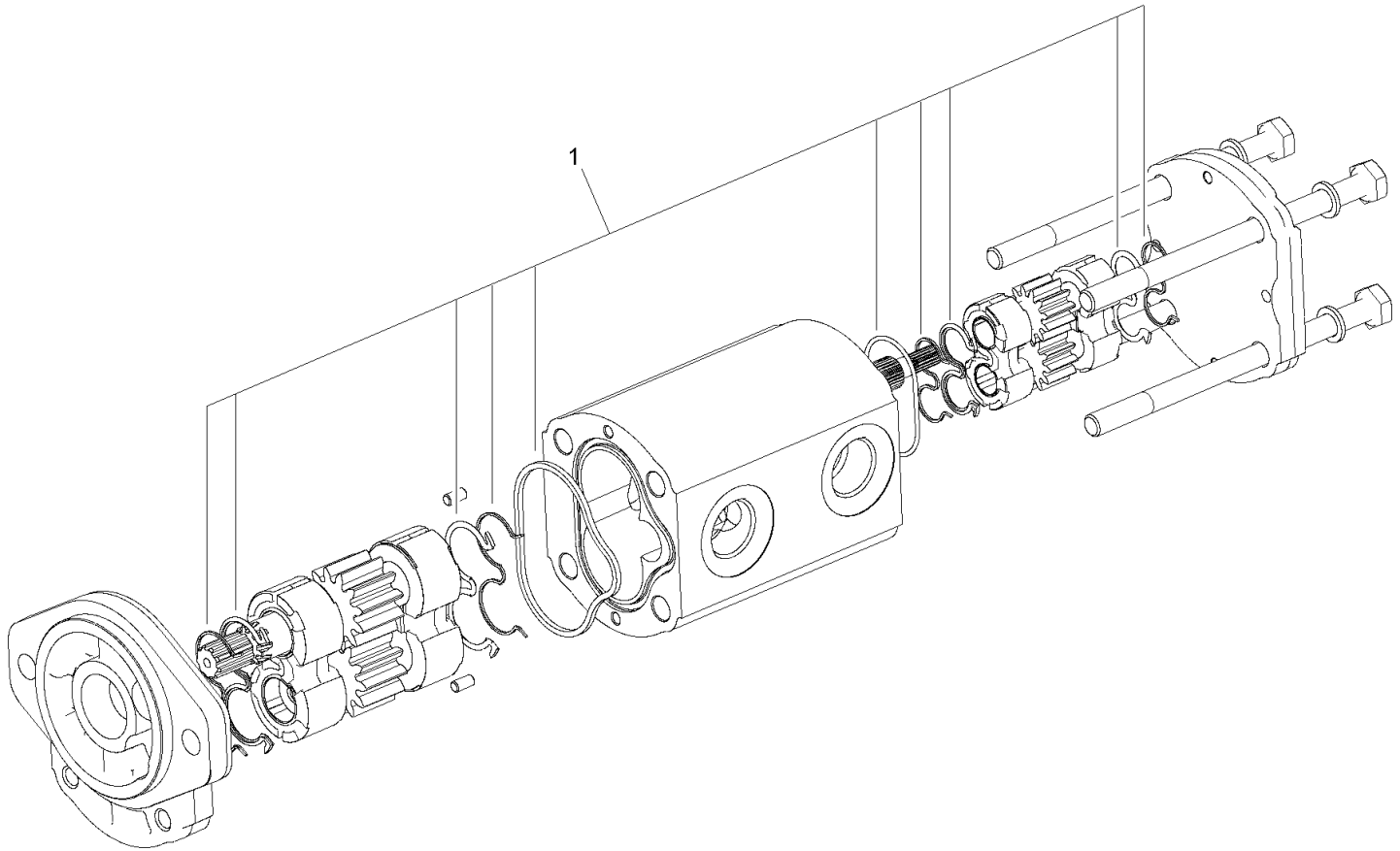
## Hydrostat Assembly (continued)

| Ref | Part No. | Qty. | Description       |  |  |  |  |
|-----|----------|------|-------------------|--|--|--|--|
| 39  | 99-3619  | 1    | Belt-3V           |  |  |  |  |
| 40  | 70-2041  | 1    | Trim              |  |  |  |  |
| 41  | 353-949  | 1    | O-Ring            |  |  |  |  |
| 42  | 108-9036 | 1    | Pump-Gear, HYD    |  |  |  |  |
| 43  | 323-7    | 2    | Screw-HH          |  |  |  |  |
| 44  | 3256-24  | 2    | Washer-Flat       |  |  |  |  |
| 45  | 99-3631  | 2    | Bushing-Flange    |  |  |  |  |
| 46  | 99-3625  | 1    | Spacer-Arm, Idler |  |  |  |  |
| 47  | 100-4852 | 2    | Washer-Hardened   |  |  |  |  |
| 48  | 72-4170  | 1    | Washer            |  |  |  |  |
| 49  | 3245-41  | 1    | Screw-HSH         |  |  |  |  |



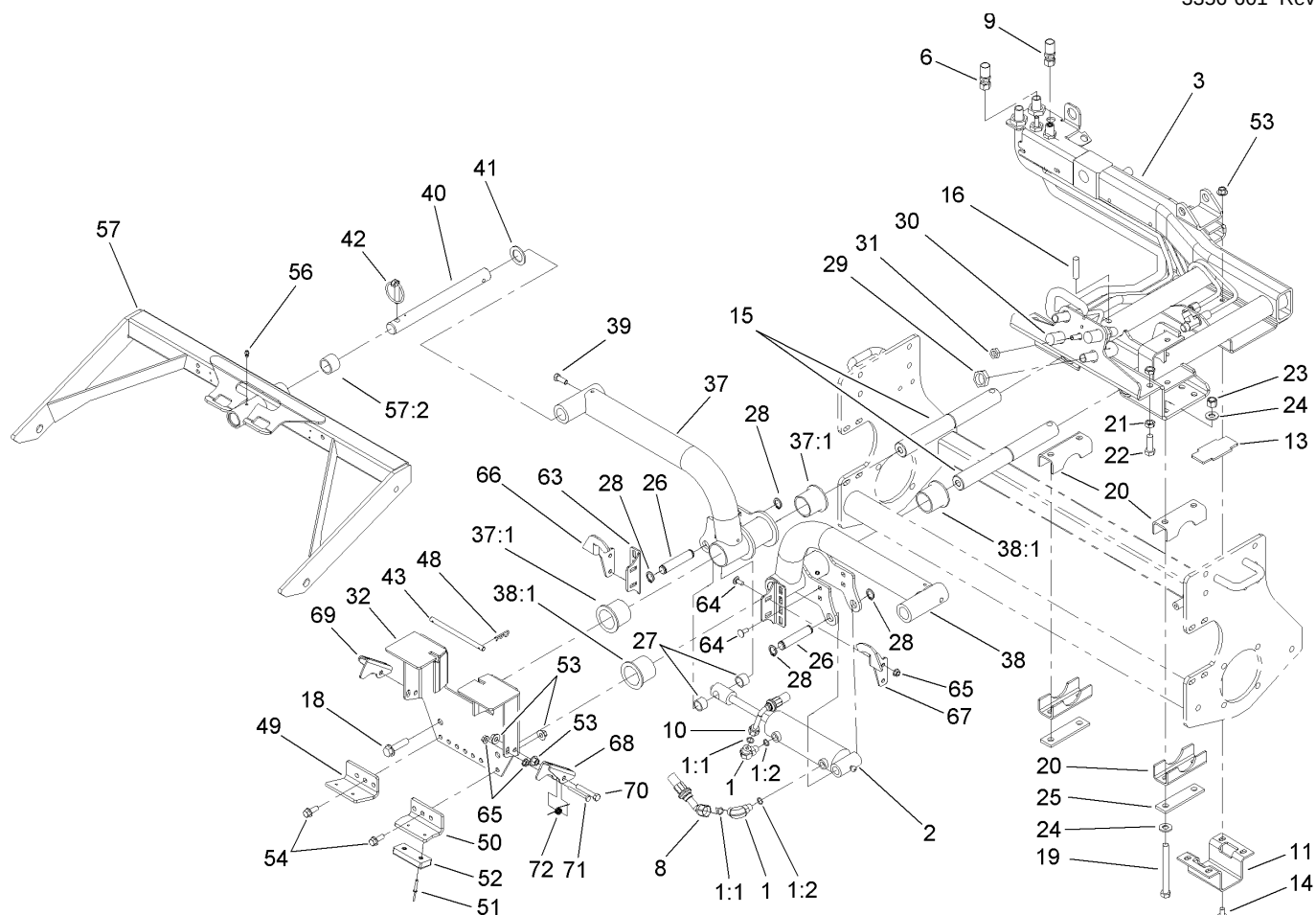
## Piston Pump Assembly No. 104-4890

| Ref  | Part No. | Qty. | Description      | Ref  | Part No. | Qty. | Description       |
|------|----------|------|------------------|------|----------|------|-------------------|
| 1    | 94-3645  | 1    | Key              | 29   | 100-3176 | 1    | Housing ASM       |
| 2    | 94-6359  | 1    | Shaft-Drive      | 29:1 | 94-6363  | 1    | Bearing           |
| 3    | 104-4046 | 2    | Bearing-Cup      | 31   | 252-71   | 2    | Washer-Thrust     |
| 4    | 98-4640  | 6    | Screw-Cap        | 32   | 252-66   | 1    | Bearing-Thrust    |
| 5    | 98-4644  | 1    | Plate-Cover      | 33   | 33-3720  | 1    | Washer            |
| 6    | 105-9762 | 6    | Washer           | 39   | 98-4635  | 1    | Insert-Plate, Cam |
| 7    | 100-3182 | 2    | Shim Kit         | 42   | 74-9040  | 1    | Coupler           |
| 8    | 98-4639  | 2    | Bearing-Cone     | 43   | 104-4868 | 1    | Seal Repair Kit   |
| 9    | 94-3646  | 1    | Key              | 43:1 | 32151-13 | 1    | Ring-Retaining    |
| 10   | 104-4888 | 1    | Swashplate       | 43:2 | 32151-29 | 1    | Ring-Retaining    |
| 11   | 76-6070  | 1    | Rotating Kit     | 43:3 | 33-4930  | 1    | Gasket-Housing    |
| 13   | 104-0429 | 1    | Plate-Cam        | 43:4 | 104-4861 | 1    | Seal-Shaft        |
| 15   | 76-6150  | 2    | Pin-Dowel        | 43:5 | 100-3179 | 1    | O-Ring            |
| 16   | 105-3813 | 1    | Endcover Sub ASM |      |          |      |                   |
| 16:1 | 94-6368  | 1    | Bearing          |      |          |      |                   |
| 16:2 |          | 1    | Pin-Roll         |      |          |      |                   |
| 18   | 74-9280  | 2    | Plug ASM         |      |          |      |                   |
| 18:1 |          | 1    | Seal-Dust        |      |          |      |                   |
| 19   | 104-4889 | 1    | Relief Valve ASM |      |          |      |                   |
| 20   | 105-3812 | 1    | Valve-Check      |      |          |      |                   |
| 21   | 105-3811 | 1    | Valve-Bypass     |      |          |      |                   |
| 22   | 76-6170  | 2    | Capscrew         |      |          |      |                   |
| 23   | 76-6160  | 2    | Capscrew         |      |          |      |                   |
| 25   | 98-4645  | 1    | Plate-Cover      |      |          |      |                   |



## Hydraulic Gear Pump Assembly No. 108-9036

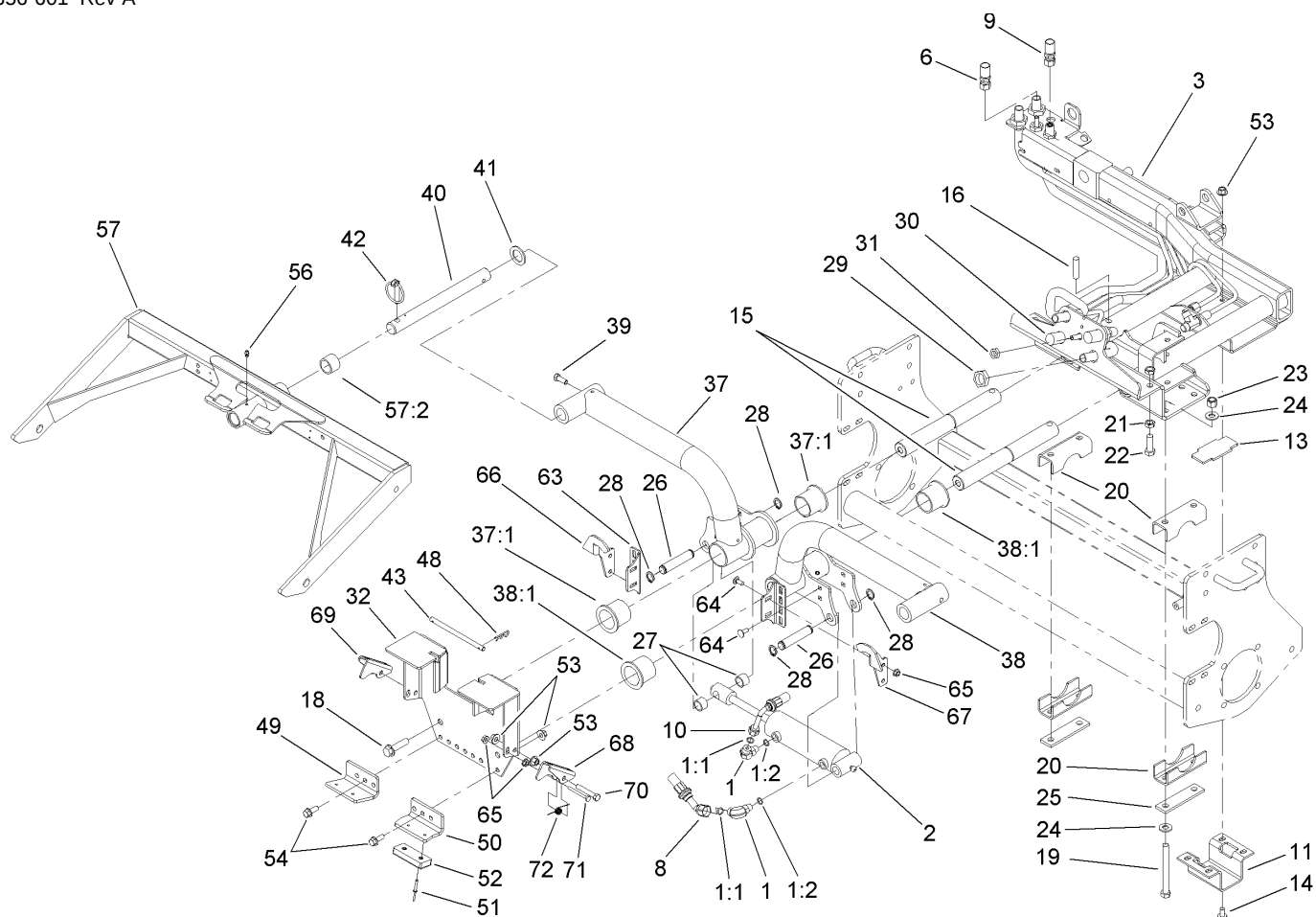
| Ref | Part No. | Qty. | Description |
|-----|----------|------|-------------|
| 1   | 110-8755 | 1    | Seal Kit    |



## Carrier Assembly

| Ref | Part No.    | Qty. | Description            |
|-----|-------------|------|------------------------|
| 1   | 340-77      | 2    | Fitting-HYD, 90 DEG    |
| 1:1 | 237-22      | 1    | O-Ring                 |
| 1:2 | 237-42      | 1    | O-Ring                 |
| 2   | 108-9033    | 1    | Cylinder-HYD           |
| 3   | 100-4939-03 | 1    | Sidewinder Carrier ASM |
| 6   | 99-3575     | 1    | Hose ASM               |
| 8   | 104-0405    | 1    | Hose ASM               |
| 9   | 108-9013    | 1    | Hose ASM               |
| 10  | 104-0406    | 1    | Hose ASM               |
| 11  | 95-8904-03  | 1    | Bracket-Clamp          |
| 13  | 95-8538     | 1    | Slide-Plastic          |
| 14  | 3234-1      | 4    | Screw-HHF              |
| 15  | 95-8531     | 2    | Shaft-Pivot, Liftarm   |
| 16  | 32121-122   | 2    | Pin-Roll               |
| 18  | 3234-27     | 2    | Screw-Flange           |
| 19  | 325-19      | 4    | Screw-HH               |
| 20  | 95-8884     | 4    | Clamp                  |
| 21  | 3218-5      | 4    | Nut-Jam                |
| 22  | 325-6       | 2    | Screw-HH               |
| 23  | 3296-23     | 4    | Nut-Lock, NI           |
| 24  | 87-7270     | 8    | Washer-Thrust          |
| 25  | 99-3373     | 2    | Bar-Support, Slide     |
| 26  | 95-8575     | 2    | Pin                    |
| 27  | 75-9590     | 2    | Spacer-Cylinder        |

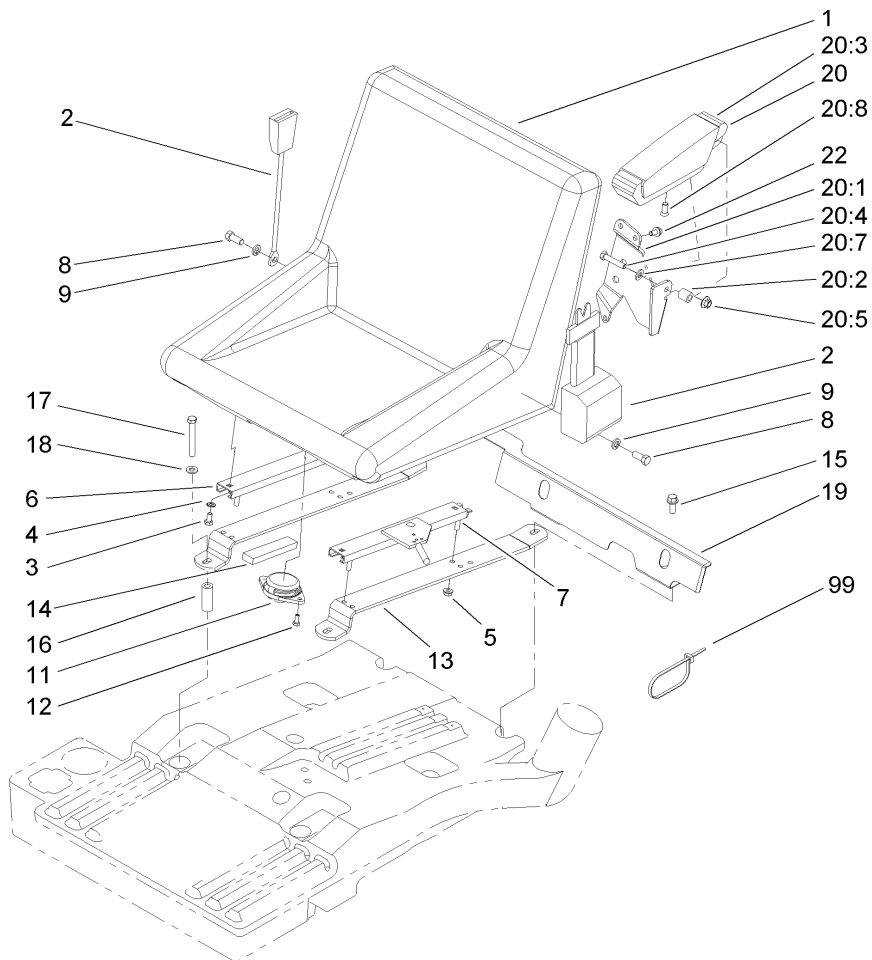
| Ref  | Part No.    | Qty. | Description             |
|------|-------------|------|-------------------------|
| 28   | 32120-93    | 4    | Ring-Retaining, EXT     |
| 29   | 340-74      | 4    | Locknut-Bulkhead        |
| 30   | 99-3640     | 1    | Tube ASM                |
| 31   | 340-78      | 1    | Locknut-Bulkhead        |
| 32   | 104-4820-03 | 1    | Bracket-Stop, Carrier   |
| 37   | 95-8553     | 1    | RH Short Lift Arm ASM   |
| 37:1 | 69-6470     | 2    | Bushing-Caster          |
| 38   | 95-8554     | 1    | LH Short Lift Arm ASM   |
| 38:1 | 69-6470     | 2    | Bushing-Caster          |
| 39   | 323-6       | 2    | Screw-HH                |
| 40   | 95-8979     | 2    | Shaft                   |
| 41   | 3-6781      | 2    | Washer-Thrust           |
| 42   | 283-71      | 2    | Pin-Lynch               |
| 43   | 104-0472    | 1    | Rod                     |
| 48   | 3290-467    | 2    | Pin-Hair                |
| 49   | 110-8793-03 | 1    | Stop-Deck, LH           |
| 50   | 110-8794-03 | 1    | Stop-Deck, RH           |
| 51   | 3269-11     | 4    | Rivet                   |
| 52   | 86-5350     | 2    | Bumper-Rubber           |
| 53   | 32128-43    | 12   | Nut-Flange              |
| 54   | 3234-11     | 4    | Screw-HHF               |
| 56   | 302-5       | 2    | Fitting-Grease          |
| 57   | 110-8787    | 2    | Front Carrier Frame ASM |
| 57:2 | 108-4000    | 2    | Bushing                 |



### Carrier Assembly (continued)

| Ref | Part No.    | Qty. | Description       |
|-----|-------------|------|-------------------|
| 63  | 104-4828-03 | 2    | Bracket-Actuator  |
| 64  | 3230-23     | 8    | Screw-CARR        |
| 65  | 32128-44    | 12   | Nut               |
| 66  | 104-4826-03 | 1    | Actuator-RH       |
| 67  | 104-4827-03 | 1    | Actuator-LH       |
| 68  | 104-4819-03 | 1    | Bracket-Pivot, LH |
| 69  | 104-4825-03 | 1    | Bracket-Pivot, RH |
| 70  | 323-11      | 2    | Screw-HH          |
| 71  | 322-11      | 2    | Screw-HH          |
| 72  | 104-4821    | 2    | Spring-Torsion    |

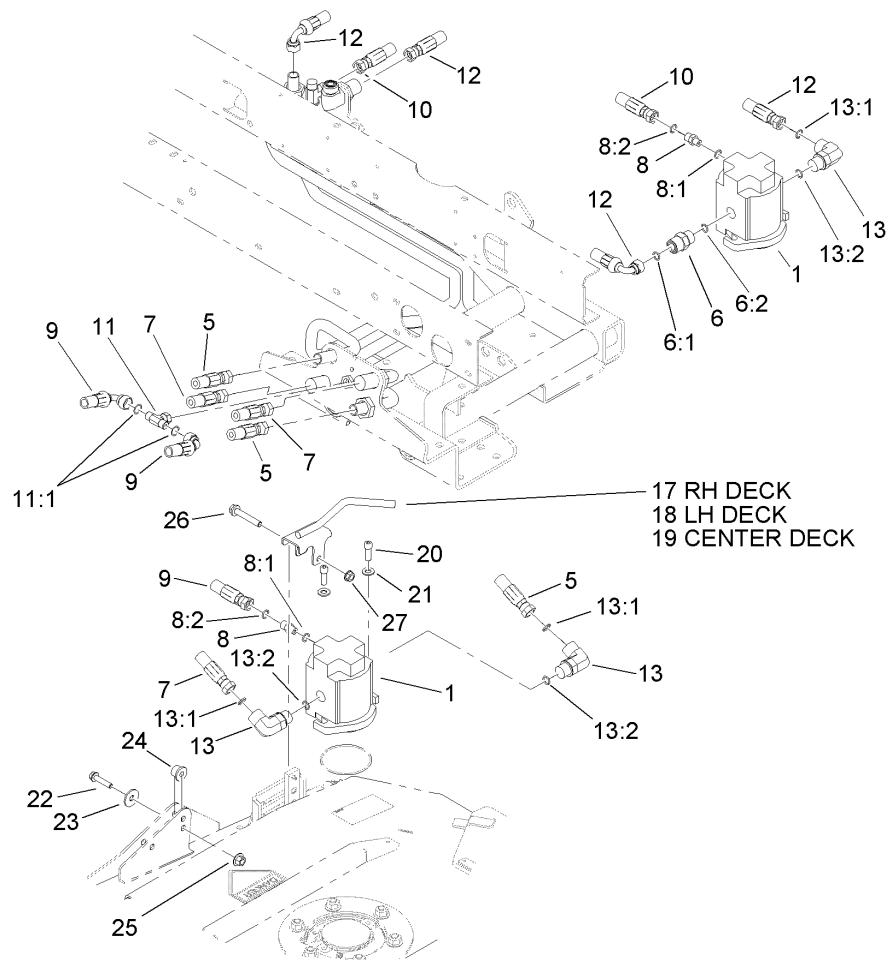
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## Seat Mounting Assembly

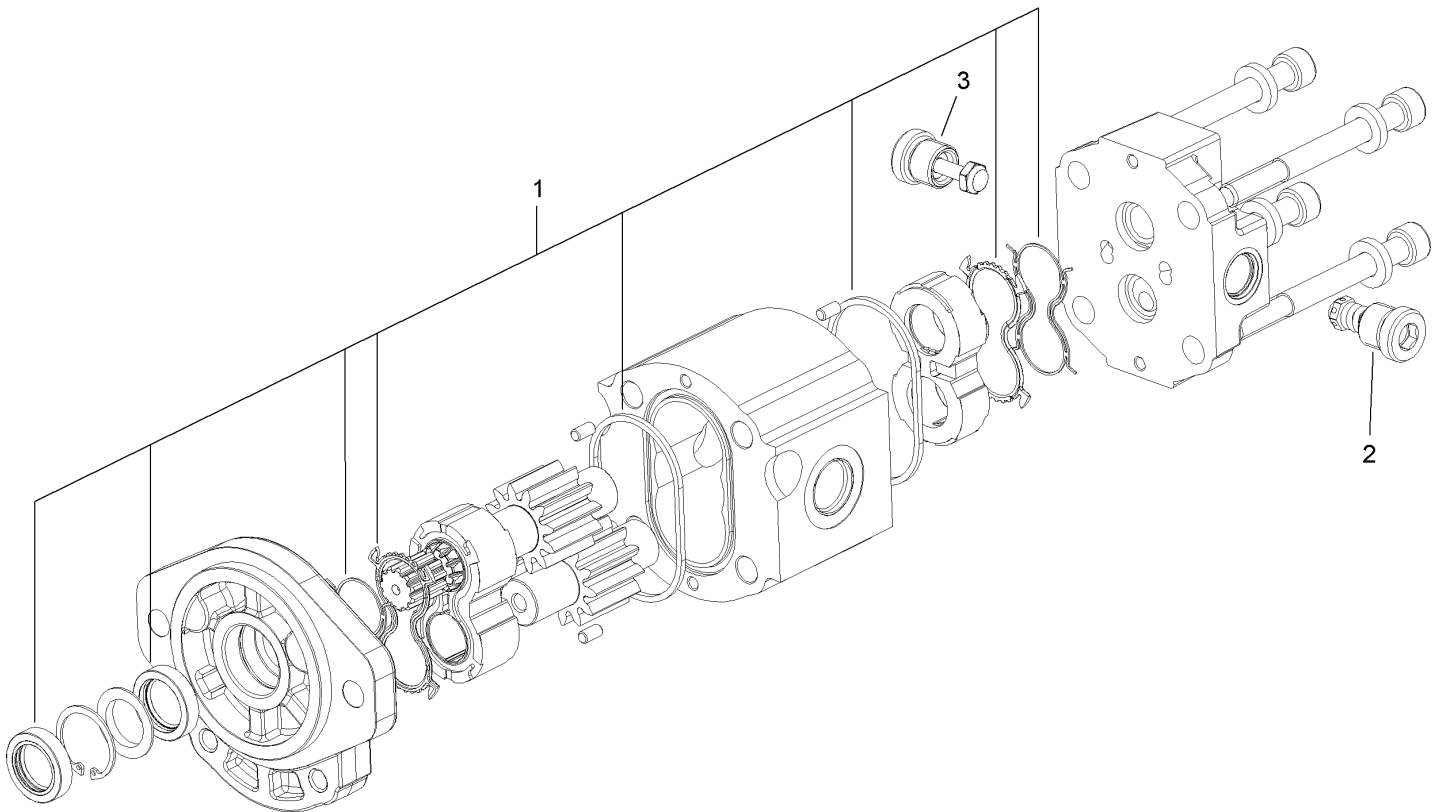
| Ref  | Part No.    | Qty. | Description            |
|------|-------------|------|------------------------|
| 1    | 104-4620    | 1    | Seat                   |
| 2    | 100-4928    | 1    | Belt-Seat              |
| 3    | 322-2       | 4    | Screw-HH               |
| 4    | 3255-8      | 4    | Washer-Lock            |
| 5    | 32128-25    | 4    | Nut-HF                 |
| 6    | 92-8990     | 1    | Adjuster-7 Inch        |
| 7    | 92-8991     | 1    | Adjuster ASM (W/Latch) |
| 8    | 3212-4      | 2    | Screw-HH               |
| 9    | 3253-6      | 2    | Washer-Lock            |
| 11   | 92-6282     | 1    | Switch-Seat            |
| 12   | 32144-10    | 2    | Screw-HWH              |
| 13   | 104-0467-03 | 2    | Strap-Support, Seat    |
| 14   | 95-8896     | 2    | Foam                   |
| 15   | 3234-11     | 2    | Screw-HHF              |
| 16   | 104-0466    | 2    | Spacer-Tube            |
| 17   | 323-14      | 2    | Screw-HH               |
| 18   | 3256-24     | 2    | Washer-Flat            |
| 19   | 104-4833-03 | 1    | Shield-Heat            |
| 20   | 92-7307     | 1    | LH Armrest ASM         |
| 20:1 | 69-0760     | 1    | Bracket-Arm, LH        |
| 20:2 | 92-7301     | 1    | Spacer                 |
| 20:3 | 69-1180     | 1    | Armrest                |
| 20:4 | 323-9       | 1    | Screw-HH               |
| 20:5 | 32128-19    | 1    | Nut-HF                 |

| Ref  | Part No. | Qty. | Description     |
|------|----------|------|-----------------|
| 20:7 | 3256-24  | 1    | Washer-Flat     |
| 20:8 | 92-7318  | 1    | Screw           |
| 21   | 92-7306  | 1    | RH Armrest ASM  |
| 21:1 | 69-0770  | 1    | Bracket-Arm, RH |
| 21:2 | 92-7301  | 1    | Spacer          |
| 21:3 | 69-1180  | 1    | Armrest         |
| 21:4 | 323-9    | 1    | Screw-HH        |
| 21:5 | 32128-19 | 1    | Nut-HF          |
| 21:7 | 3256-24  | 1    | Washer-Flat     |
| 21:8 | 92-7318  | 1    | Screw           |
| 22   | 3234-14  | 6    | Screw-HHF       |
| 99   | 3290-378 | 1    | Tie-Cable       |



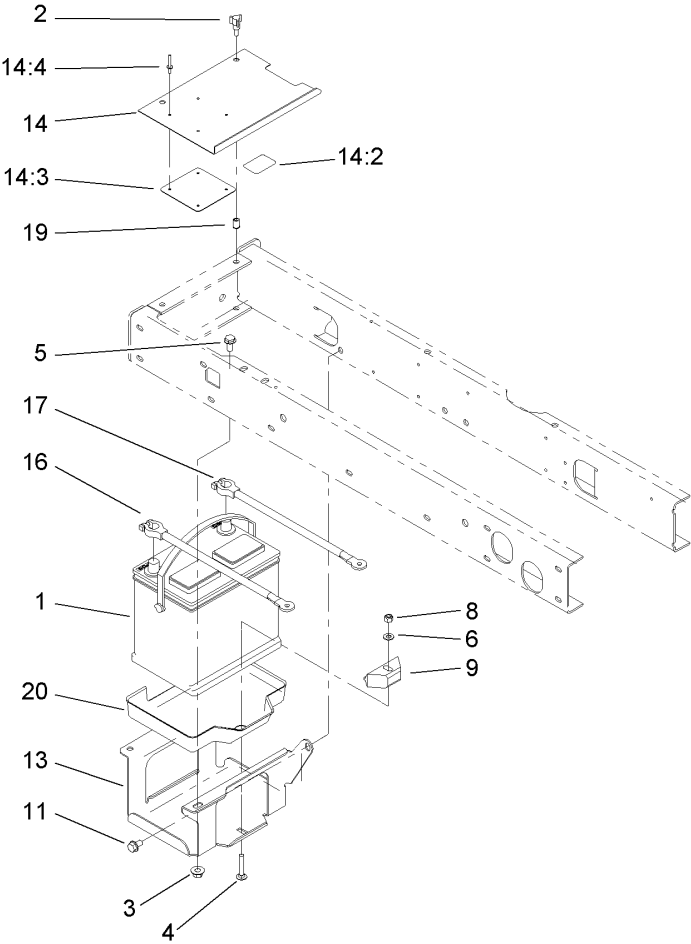
# Rotary Motor Assembly

| Ref  | Part No.    | Qty. | Description           | Ref | Part No. | Qty. | Description    |
|------|-------------|------|-----------------------|-----|----------|------|----------------|
| 1    | 105-9872    | 3    | Motor-HYD             | 24  | 95-8803  | 6    | Bushing-Flange |
| 5    | 105-1216    | 2    | Hose ASM              | 25  | 32128-43 | 6    | Nut-Flange     |
| 6    | 340-7       | 1    | Adapter               | 26  | 100-2592 | 4    | Screw-HHF      |
| 6:1  | 237-65      | 1    | O-Ring                | 27  | 3290-357 | 4    | Nut-HHF, Whiz  |
| 6:2  | 237-80      | 1    | O-Ring                |     |          |      |                |
| 7    | 105-1215    | 2    | Hose ASM              |     |          |      |                |
| 8    | 340-92      | 3    | Fitting-HYD, Straight |     |          |      |                |
| 8:1  | 237-78      | 1    | O-Ring                |     |          |      |                |
| 8:2  | 237-21      | 1    | O-Ring                |     |          |      |                |
| 9    | 104-1080    | 2    | Hose ASM              |     |          |      |                |
| 10   | 100-4876    | 1    | Hose ASM              |     |          |      |                |
| 11   | 99-3477     | 1    | Fitting-Tee           |     |          |      |                |
| 11:1 | 237-42      | 2    | O-Ring                |     |          |      |                |
| 12   | 100-4880    | 2    | Hose ASM              |     |          |      |                |
| 13   | 340-17      | 5    | Fitting-HYD, 90 DEG   |     |          |      |                |
| 13:1 | 237-65      | 1    | O-Ring                |     |          |      |                |
| 13:2 | 237-80      | 1    | O-Ring                |     |          |      |                |
| 17   | 112-9901-03 | 1    | RH Foot Guard ASM     |     |          |      |                |
| 18   | 112-9902-03 | 1    | LH Foot Guard ASM     |     |          |      |                |
| 19   | 112-9900-03 | 1    | Foot Guard ASM        |     |          |      |                |
| 20   | 3274-7      | 6    | Screw-HSH             |     |          |      |                |
| 21   | 3256-24     | 6    | Washer-Flat           |     |          |      |                |
| 22   | 3234-18     | 6    | Screw-HHF             |     |          |      |                |
| 23   | 93-8806     | 6    | Washer-Hardened       |     |          |      |                |



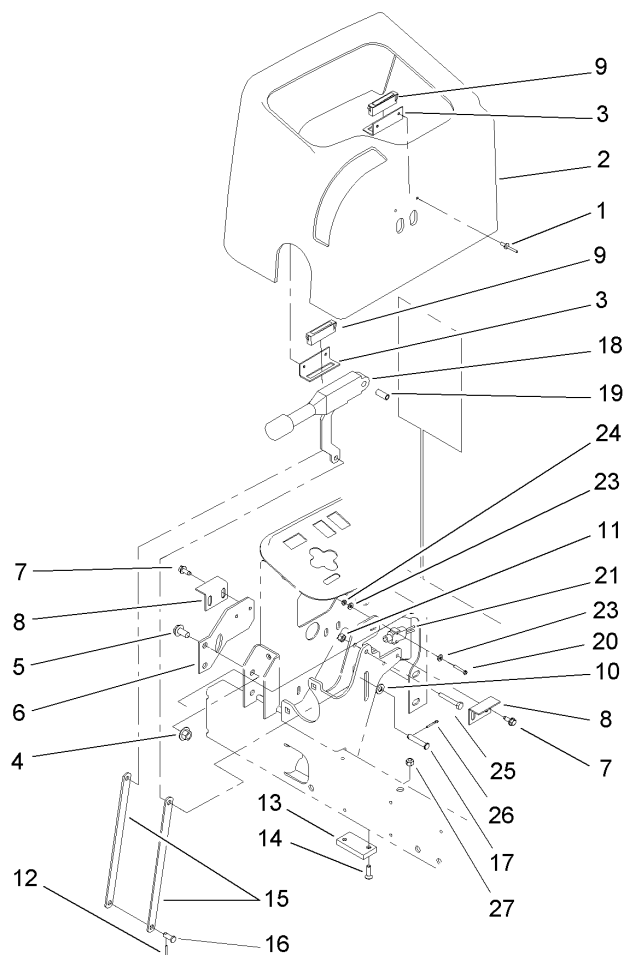
# Hydraulic Motor Assembly No. 105-9872

| Ref | Part No. | Qty. | Description          |  |  |  |  |
|-----|----------|------|----------------------|--|--|--|--|
| 1   | 107-7819 | 1    | Seal Kit             |  |  |  |  |
| 2   | 107-7820 | 1    | Valve-Relief         |  |  |  |  |
| 3   | 107-7821 | 1    | Valve-Anticavitation |  |  |  |  |



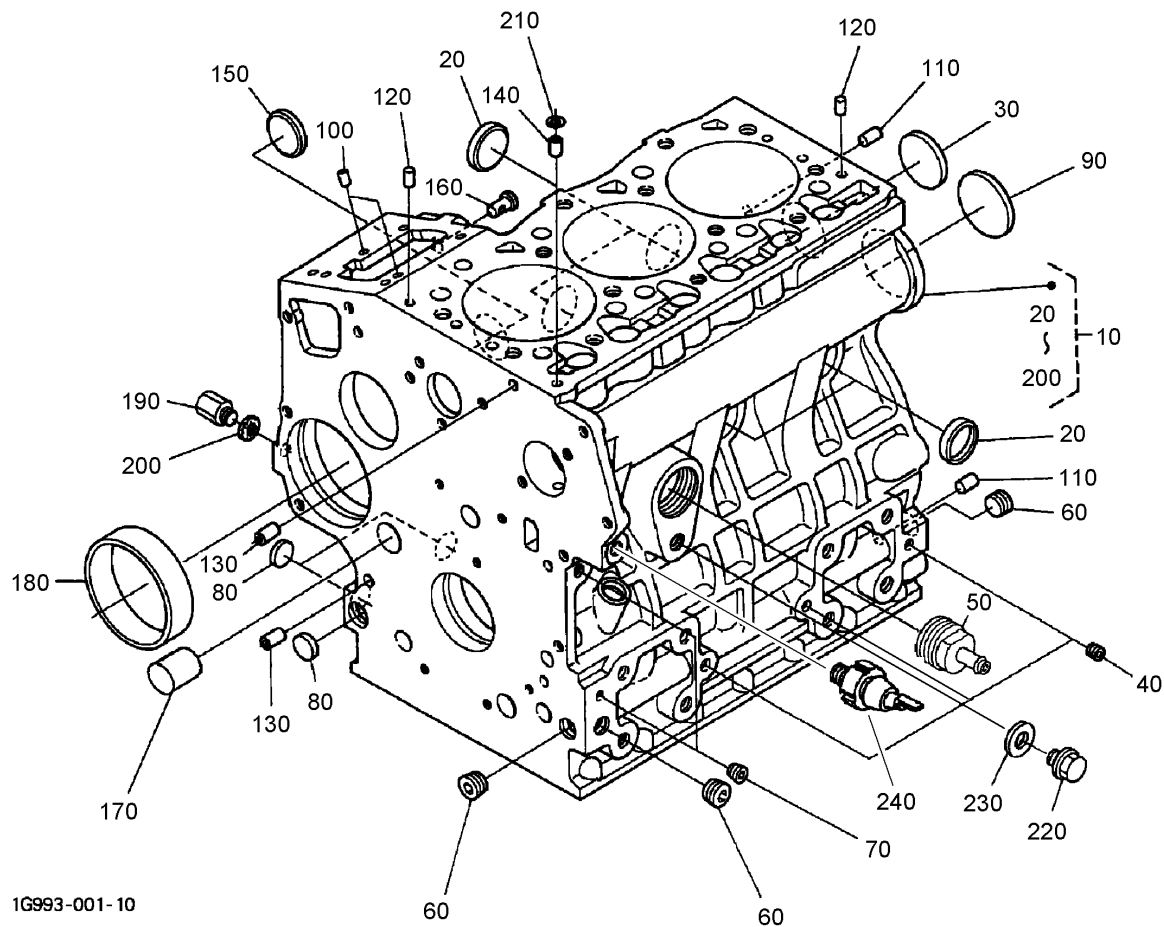
Battery Assembly

| Ref  | Part No.   | Qty. | Description              |  |  |  |  |
|------|------------|------|--------------------------|--|--|--|--|
| 1    | 104-9979   | 1    | Battery                  |  |  |  |  |
| 2    | 233-70     | 2    | Knob-Star, Three         |  |  |  |  |
| 3    | 32128-43   | 3    | Nut-Flange               |  |  |  |  |
| 4    | 3230-6     | 1    | Screw-CARR               |  |  |  |  |
| 5    | 3234-1     | 3    | Screw-HHF                |  |  |  |  |
| 6    | 3256-23    | 1    | Washer-Flat              |  |  |  |  |
| 8    | 3296-29    | 1    | Nut-Lock, NI             |  |  |  |  |
| 9    | 66-2490    | 1    | Retainer-Battery         |  |  |  |  |
| 11   | 32144-15   | 1    | Screw                    |  |  |  |  |
| 13   | 95-8796-03 | 1    | Support-Battery          |  |  |  |  |
| 14   | 99-3602    | 1    | Battery Cover ASM        |  |  |  |  |
| 14:2 | 93-7276    | 1    | Decal-Danger             |  |  |  |  |
| 14:3 | 87-7620    | 1    | Shield-Terminal, Battery |  |  |  |  |
| 14:4 | 3269-27    | 4    | Rivet-Snap               |  |  |  |  |
| 16   | 95-8853    | 1    | Cable-Battery, Positive  |  |  |  |  |
| 17   | 95-8854    | 1    | Cable-Battery, Negative  |  |  |  |  |
| 19   | 32148-6    | 2    | Insert-Nut               |  |  |  |  |
| 20   | 99-3513    | 1    | Tray-Battery             |  |  |  |  |



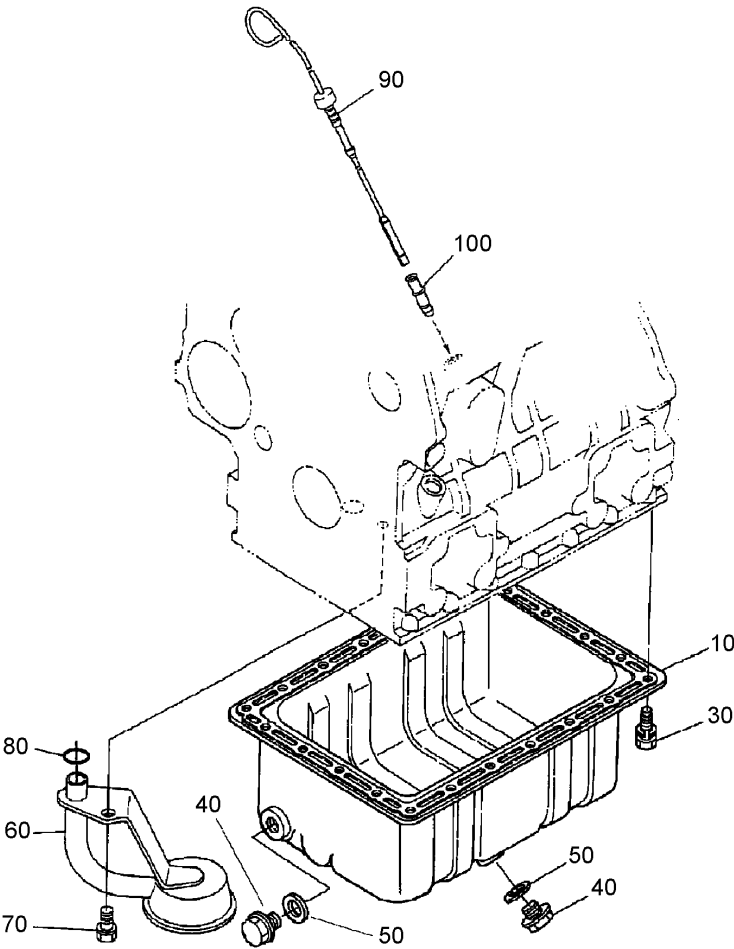
## Parking Brake Assembly

| Ref | Part No.    | Qty. | Description              | Ref | Part No. | Qty. | Description |
|-----|-------------|------|--------------------------|-----|----------|------|-------------|
| 1   | 3269-5      | 4    | Rivet                    | 26  | 3272-6   | 1    | Pin-Cotter  |
| 2   | 95-8707     | 1    | Cover-Dash               | 27  | 32128-32 | 2    | Nut-HHF     |
| 3   | 95-8763     | 2    | Bracket-Hold Down, Cover |     |          |      |             |
| 4   | 32128-43    | 2    | Nut-Flange               |     |          |      |             |
| 5   | 3234-1      | 2    | Screw-HHF                |     |          |      |             |
| 6   | 95-8764-03  | 1    | Support-Magnet           |     |          |      |             |
| 7   | 32144-10    | 4    | Screw-HWH                |     |          |      |             |
| 8   | 95-8765     | 2    | Bracket-Strike, Magnet   |     |          |      |             |
| 9   | 58-4250     | 2    | Catch-Magnetic           |     |          |      |             |
| 10  | 3256-23     | 1    | Washer-Flat              |     |          |      |             |
| 11  | 3296-42     | 1    | Nut-Lock, NI             |     |          |      |             |
| 12  | 3272-10     | 1    | Pin-Cotter               |     |          |      |             |
| 13  | 95-8684     | 1    | Pad-Bumper               |     |          |      |             |
| 14  | 3289-4      | 2    | Screw-FH                 |     |          |      |             |
| 15  | 104-4628-03 | 2    | Link-Brake, Parking      |     |          |      |             |
| 16  | 283-62      | 1    | Pin-Clevis               |     |          |      |             |
| 17  | 94-3829     | 1    | Pin-Clevis               |     |          |      |             |
| 18  | 104-4817    | 1    | Lever-Brake              |     |          |      |             |
| 19  | 87-4710     | 1    | Spacer-Brake, Parking    |     |          |      |             |
| 20  | 32105-9     | 2    | Screw                    |     |          |      |             |
| 21  | 95-8900     | 1    | Switch                   |     |          |      |             |
| 23  | 3256-21     | 4    | Washer-Flat              |     |          |      |             |
| 24  | 3296-9      | 2    | Nut-Lock                 |     |          |      |             |
| 25  | 321-10      | 1    | Screw-HH                 |     |          |      |             |



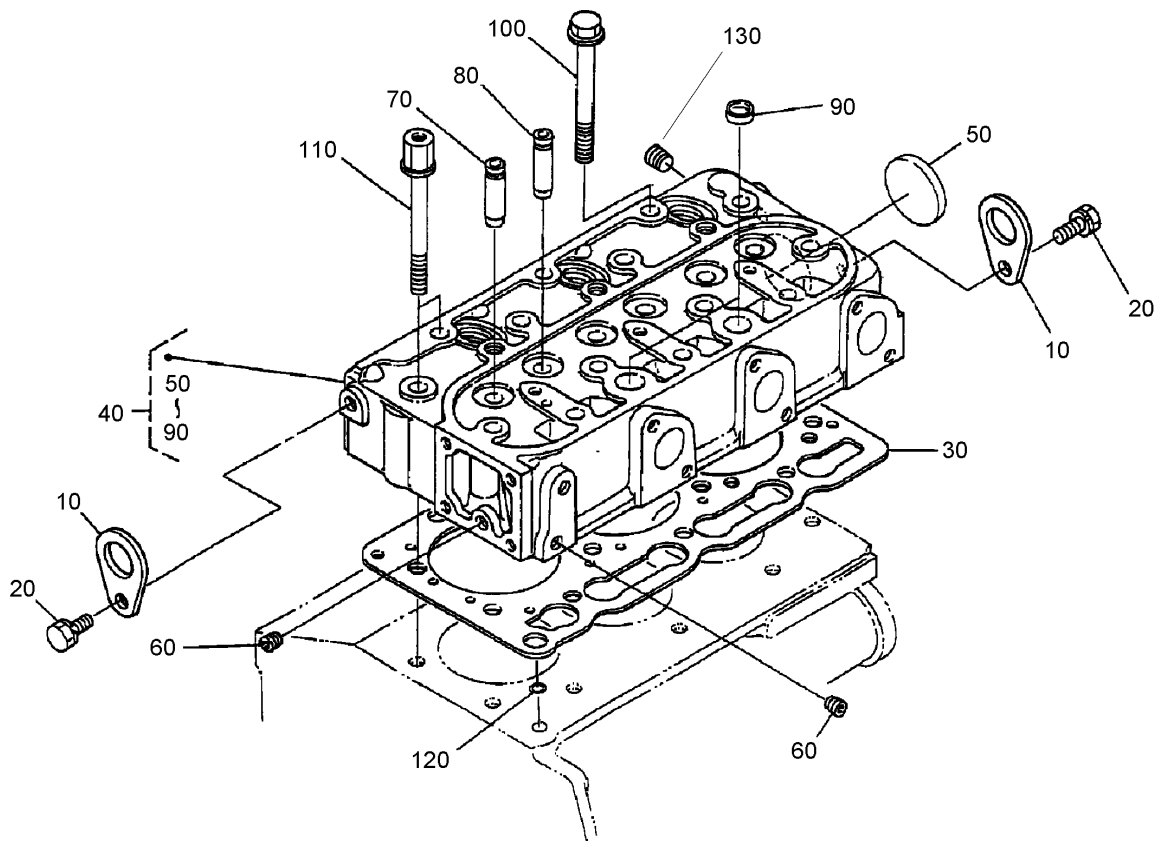
Crankcase Assembly

| Ref | Part No. | Qty. | Description            |  |  |  |  |
|-----|----------|------|------------------------|--|--|--|--|
| 10  | 107-7824 | 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  | 98-7489  | 3    | Plug                   |  |  |  |  |
| 90  | 98-9668  | 1    | Plug                   |  |  |  |  |
| 100 | 98-9375  | 2    | Pin-Straight           |  |  |  |  |
| 110 | 98-9377  | 2    | Pin-Straight           |  |  |  |  |
| 120 | 105-3795 | 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                 |  |  |  |  |
| 210 | 98-7509  | 1    | O-Ring                 |  |  |  |  |
| 220 | 99-3447  | 1    | Plug                   |  |  |  |  |
| 230 | 106-7056 | 1    | Gasket                 |  |  |  |  |
| 240 | 98-9416  | 1    | Switch-Oil             |  |  |  |  |



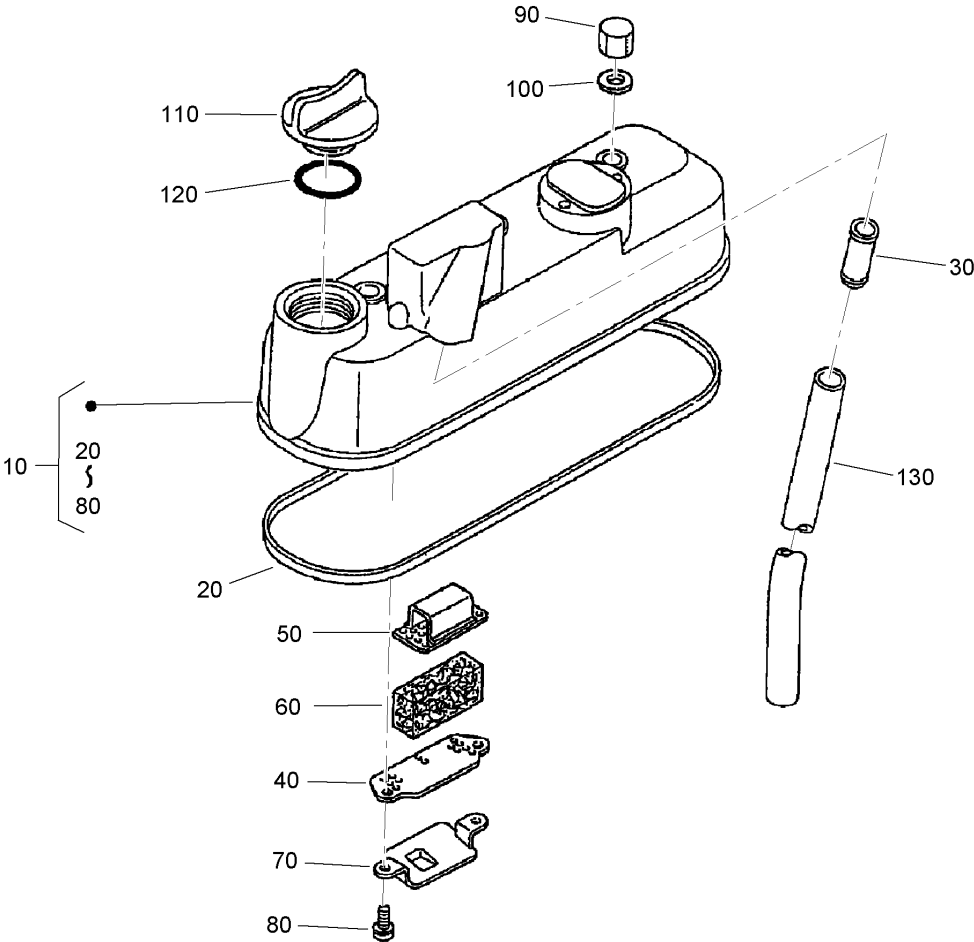
Dipstick and Oil Pan Assembly

| Ref | Part No. | Qty. | Description      |  |  |  |  |
|-----|----------|------|------------------|--|--|--|--|
| 10  | 98-9685  | 1    | Drain-Oil        |  |  |  |  |
| 30  | 107-9065 | 22   | Bolt             |  |  |  |  |
| 40  | 98-9386  | 2    | Plug             |  |  |  |  |
| 50  | 98-7524  | 2    | Gasket           |  |  |  |  |
| 60  | 108-1401 | 1    | Filter-Oil       |  |  |  |  |
| 70  | 98-7526  | 1    | Bolt             |  |  |  |  |
| 80  | 105-3776 | 1    | O-Ring           |  |  |  |  |
| 90  | 107-9076 | 1    | Gauge-Oil        |  |  |  |  |
| 100 | 105-3713 | 1    | Guide-Gauge, Oil |  |  |  |  |



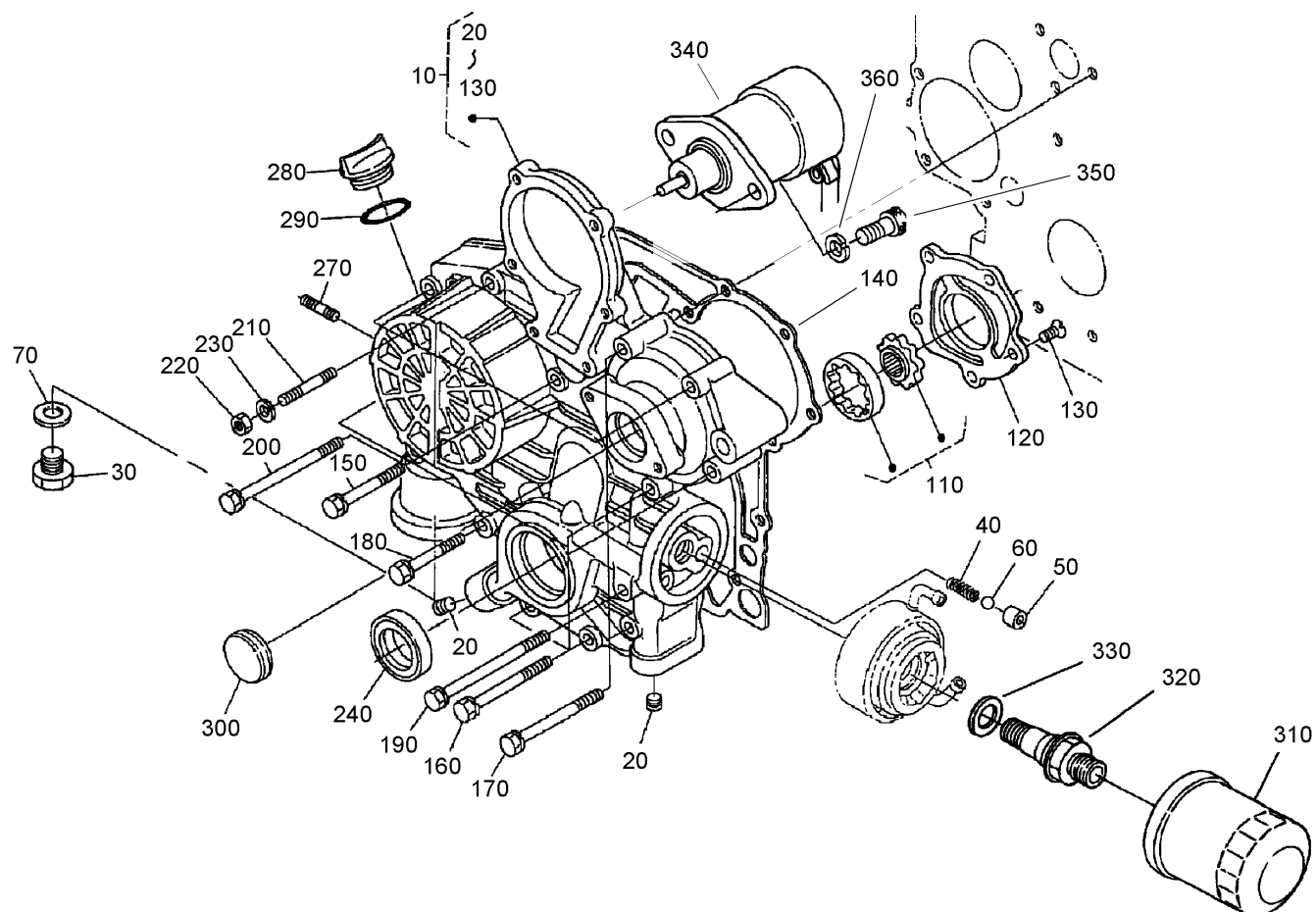
Cylinder Head Assembly

| Ref | Part No. | Qty. | Description           |  |  |  |  |
|-----|----------|------|-----------------------|--|--|--|--|
| 10  | 98-7531  | 2    | Hook-Engine           |  |  |  |  |
| 20  | 100-9195 | 2    | Bolt                  |  |  |  |  |
| 30  | 105-3780 | 1    | Gasket-Head, Cylinder |  |  |  |  |
| 40  | 107-7823 | 1    | Cylinder Head ASM     |  |  |  |  |
| 50  | 98-9395  | 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   |  |  |  |  |
| 120 | 98-7509  | 1    | O-Ring                |  |  |  |  |
| 130 | 98-9444  | 1    | Plug                  |  |  |  |  |



Head Cover Assembly

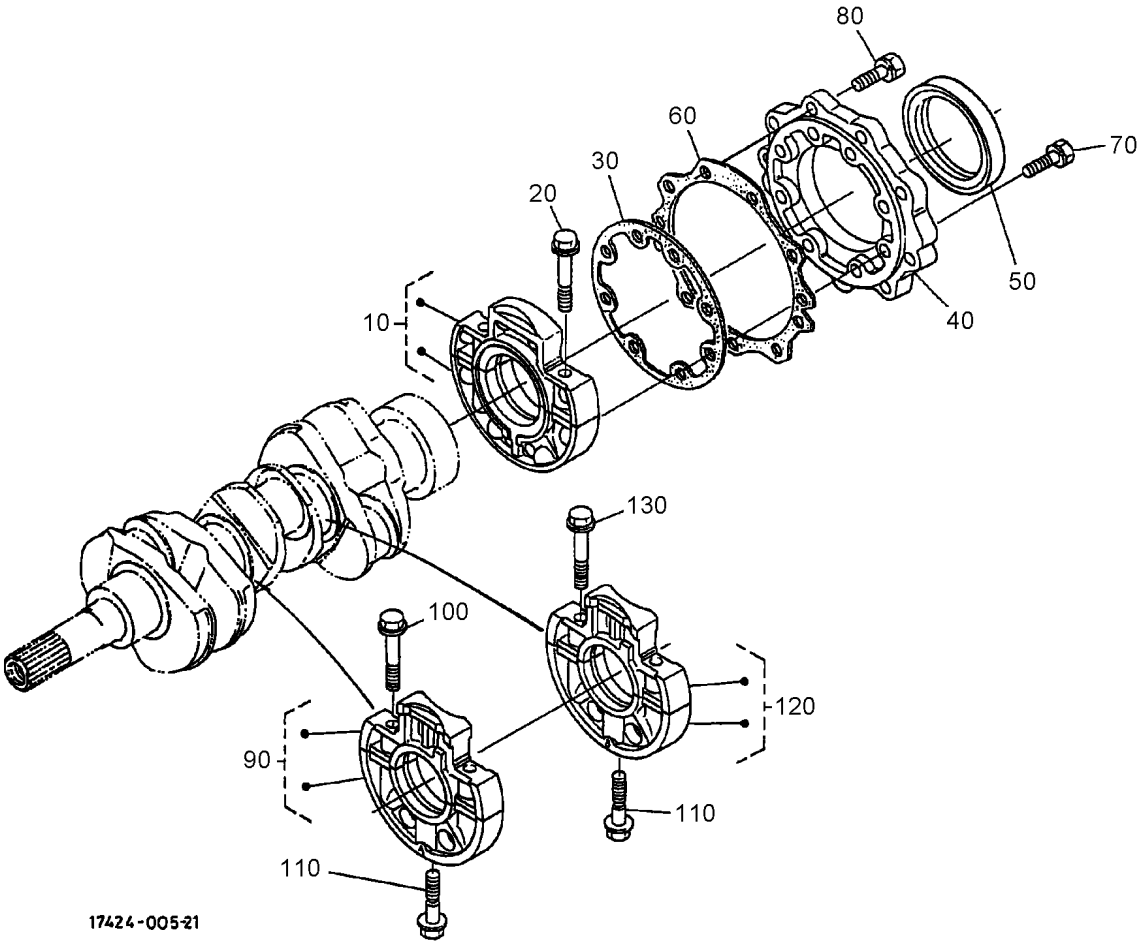
| Ref | Part No. | Qty. | Description             |  |  |  |  |
|-----|----------|------|-------------------------|--|--|--|--|
| 10  | 98-9614  | 1    | Cylinder Head Cover ASM |  |  |  |  |
| 20  | 98-9615  | 1    | Gasket-Cover, Head      |  |  |  |  |
| 30  | 98-9492  | 1    | Joint-Pipe, Breather    |  |  |  |  |
| 40  | 98-9488  | 1    | Plate-Element, Breather |  |  |  |  |
| 50  | 98-9489  | 1    | Plate-Element, Breather |  |  |  |  |
| 60  | 98-9493  | 1    | Element-Breather        |  |  |  |  |
| 70  | 98-9490  | 1    | Shield-Oil, Breather    |  |  |  |  |
| 80  | 98-9364  | 2    | Screw (W/Washer)        |  |  |  |  |
| 90  | 98-9455  | 3    | Nut-Cap                 |  |  |  |  |
| 100 | 98-9454  | 3    | Gasket                  |  |  |  |  |
| 110 | 107-9075 | 1    | Plug-Filler, Oil        |  |  |  |  |
| 120 | 99-3446  | 1    | O-Ring                  |  |  |  |  |
| 130 | 98-9491  | 1    | Pipe-Breather           |  |  |  |  |



## Gear Case, Oil Filter and Stop Solenoid Assembly

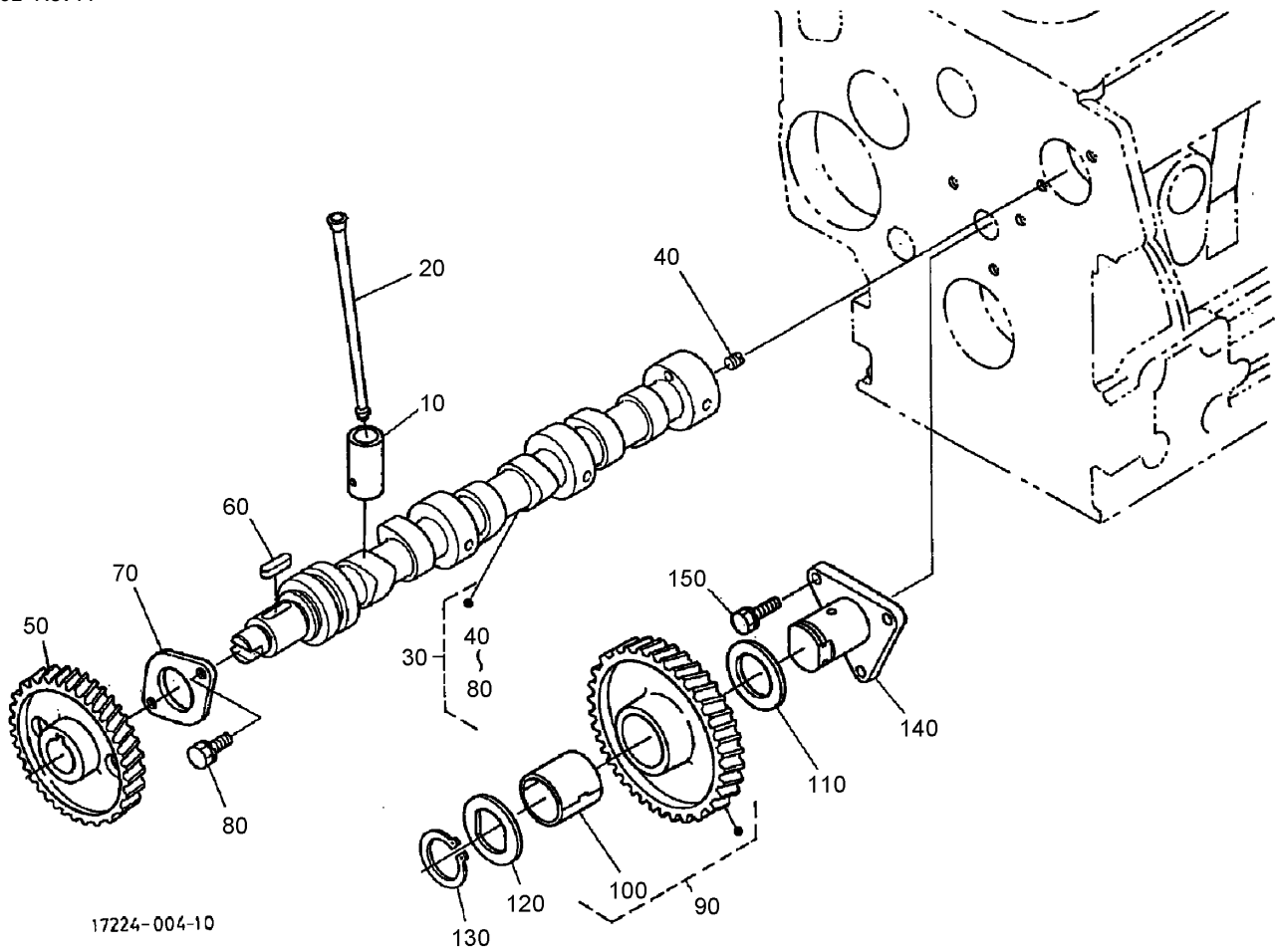
| Ref | Part No. | Qty. | Description        |
|-----|----------|------|--------------------|
| 10  | 107-7825 | 1    | Gear Case ASM      |
| 20  | 98-9598  | 5    | Plug               |
| 30  | 99-3450  | 1    | Plug               |
| 40  | 98-9544  | 1    | Spring             |
| 50  | 98-9543  | 1    | Seat-Valve         |
| 60  | 98-9380  | 1    | Ball               |
| 70  | 99-3451  | 1    | Plug-Packing       |
| 110 | 98-9540  | 1    | Oil Pump Rotor ASM |
| 120 | 105-3708 | 1    | Cover-Pump, Oil    |
| 130 | 98-9592  | 5    | Screw              |
| 140 | 98-9633  | 1    | Gasket-Case, Gear  |
| 150 | 98-7496  | 3    | Bolt               |
| 160 | 105-3797 | 4    | Bolt               |
| 170 | 98-9356  | 2    | Bolt               |
| 180 | 98-9437  | 1    | Bolt               |
| 190 | 98-9586  | 2    | Bolt               |
| 200 | 99-3511  | 1    | Bolt               |
| 210 | 105-3709 | 1    | Stud               |
| 220 | 98-7572  | 1    | Nut                |
| 230 | 98-7699  | 1    | Washer-Spring      |
| 240 | 98-9482  | 1    | Seal-Oil           |
| 270 | 105-3710 | 2    | Stud               |
| 280 | 107-9075 | 1    | Plug-Filler, Oil   |
| 290 | 99-3446  | 1    | O-Ring             |

| Ref | Part No. | Qty. | Description   |
|-----|----------|------|---------------|
| 300 | 98-9641  | 1    | Cover         |
| 310 | 99-8384  | 1    | Filter-Oil    |
| 320 | 104-5159 | 1    | Holder ASM    |
| 330 | 98-9727  | 1    | Collar        |
| 340 | 104-5155 | 1    | Solenoid-Stop |
| 350 | 105-3799 | 2    | Bolt-HSH      |
| 360 | 98-7699  | 2    | Washer-Spring |



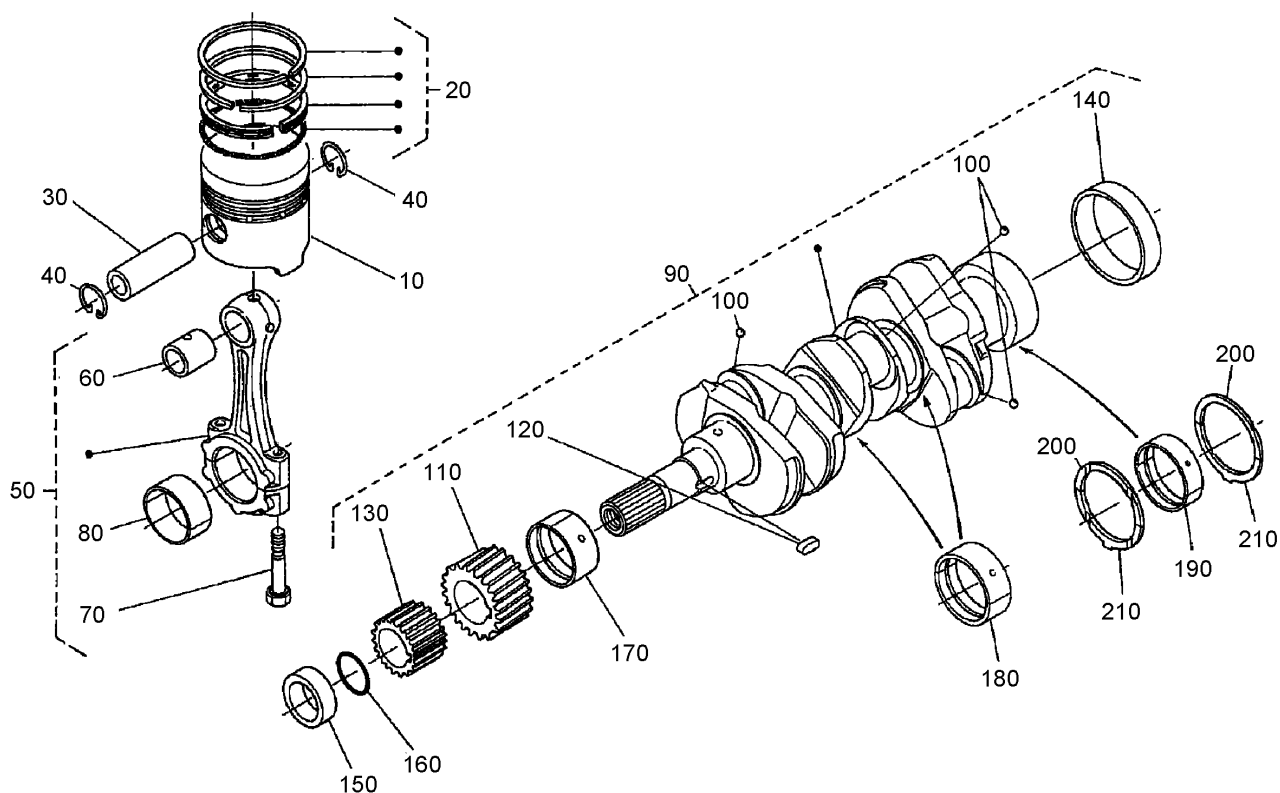
Main Bearing Assembly

| Ref | Part No. | Qty. | Description                |  |  |  |  |
|-----|----------|------|----------------------------|--|--|--|--|
| 10  | 98-9480  | 1    | Main Bearing Case ASM      |  |  |  |  |
| 20  | 98-9484  | 2    | Bolt-Case, Bearing         |  |  |  |  |
| 30  | 98-9634  | 1    | Gasket-Case, Bearing       |  |  |  |  |
| 40  | 98-9487  | 1    | Cover-Case, Bearing        |  |  |  |  |
| 50  | 98-9483  | 1    | Seal-Oil                   |  |  |  |  |
| 60  | 98-9635  | 1    | Gasket-Cover, Bearing Case |  |  |  |  |
| 70  | 98-9352  | 8    | Bolt                       |  |  |  |  |
| 80  | 98-7568  | 9    | Bolt                       |  |  |  |  |
| 90  | 99-8361  | 1    | Case-Bearing, Main         |  |  |  |  |
| 100 | 98-9484  | 2    | Bolt-Case, Bearing         |  |  |  |  |
| 110 | 98-9485  | 2    | Bolt-Case, Bearing         |  |  |  |  |
| 120 | 99-8360  | 1    | Case-Bearing, Main         |  |  |  |  |
| 130 | 98-9484  | 2    | Bolt-Case, Bearing         |  |  |  |  |



Camshaft and Idle Gear Shaft Assembly

| Ref | Part No. | Qty. | Description              |  |  |  |  |
|-----|----------|------|--------------------------|--|--|--|--|
| 10  | 98-9616  | 6    | Tappet                   |  |  |  |  |
| 20  | 98-9509  | 6    | Rod-Push                 |  |  |  |  |
| 30  | 99-8362  | 1    | Camshaft ASM             |  |  |  |  |
| 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    | Clip-Circular, Idle Gear |  |  |  |  |
| 140 | 98-9533  | 1    | Shaft-Gear, Idle         |  |  |  |  |
| 150 | 98-7692  | 3    | Bolt                     |  |  |  |  |

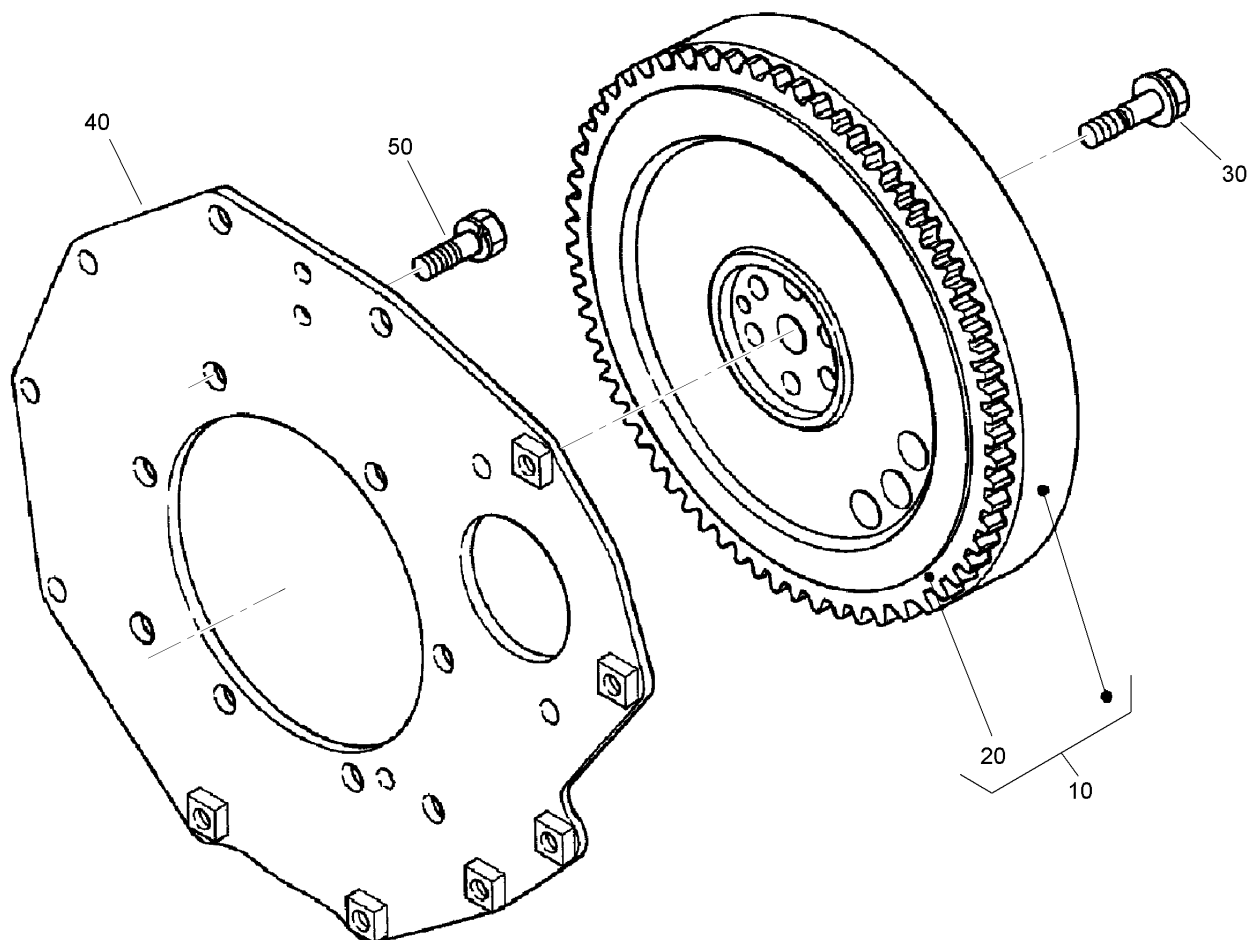


16221-009-10

## Piston and Crankshaft Assembly

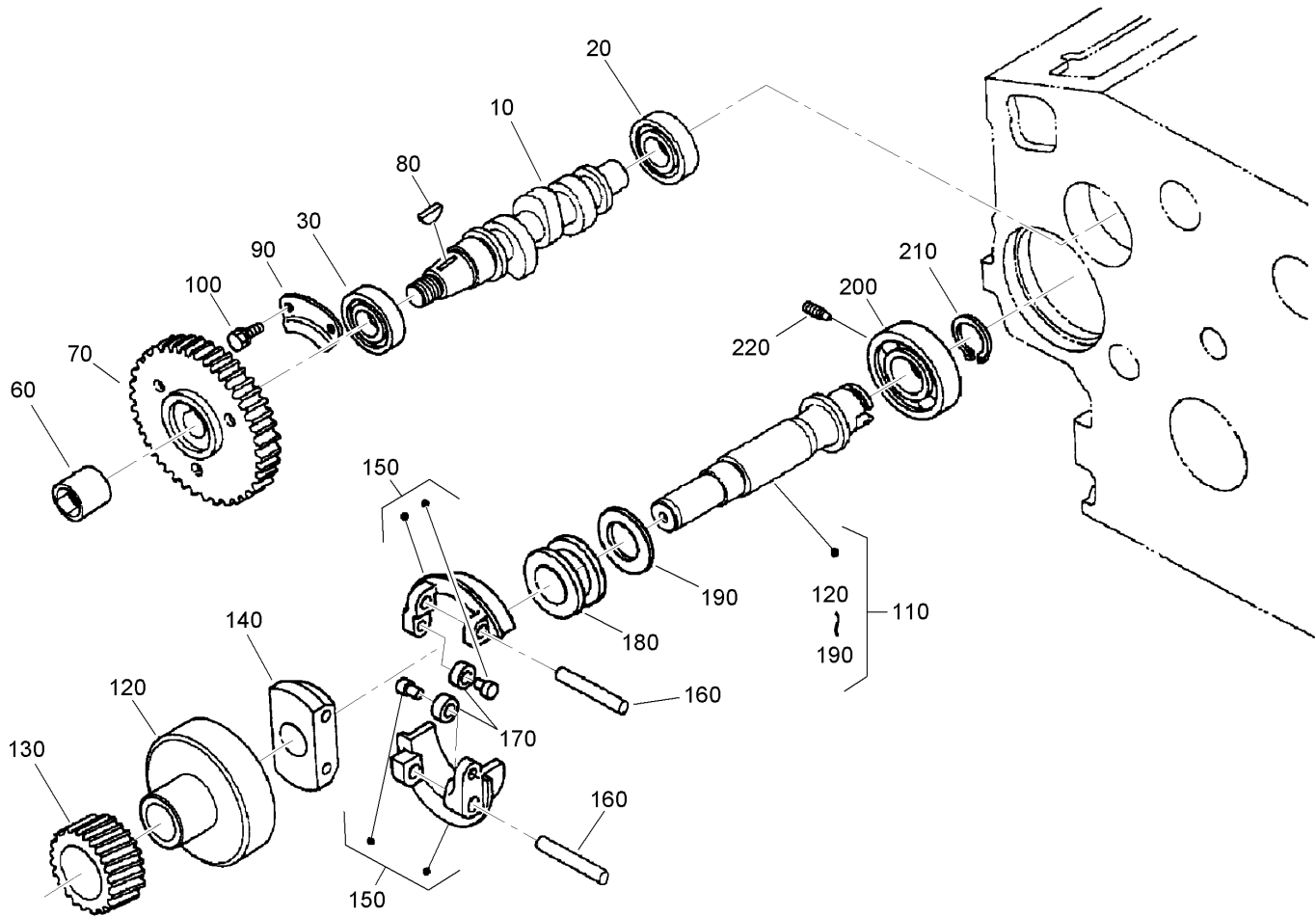
| Ref | Part No. | Qty. | Description               |
|-----|----------|------|---------------------------|
| 10  | 98-9550  | 3    | Piston (STD)              |
| 10  | 108-1417 | 3    | Piston, 0.5Mm             |
| 20  | 98-9551  | 3    | Piston Ring ASM (STD)     |
| 20  | 108-1404 | 3    | Piston Ring ASM (0.5Mm)   |
| 30  | 98-9513  | 3    | Pin-Piston                |
| 40  | 98-9514  | 6    | Clip-Circular, Piston Pin |
| 50  | 98-9552  | 3    | Connecting Rod ASM        |
| 60  | 98-9515  | 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 | 98-7473  | 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 | 98-9554  | 1    | *obs* Bearing-Main (STD)  |
| 170 | 108-1407 | 1    | Metal-Crankpin, -0.2Mm    |
| 170 | 108-1408 | 1    | Metal-Crankpin, -0.4Mm    |
| 180 | 98-9555  | 2    | Bearing-Main (STD)        |

| Ref | Part No. | Qty. | Description             |
|-----|----------|------|-------------------------|
| 180 | 108-1409 | 2    | Metal-Crankpin, -0.2Mm  |
| 180 | 108-1410 | 2    | Metal-Crankpin, -0.4Mm  |
| 190 | 98-9556  | 1    | Bearing-Main (STD)      |
| 190 | 105-3719 | 1    | Metal-Crankshaft (.2Mm) |
| 190 | 105-3720 | 1    | Metal-Crankshaft (.4Mm) |
| 200 | 99-6864  | 2    | Metal-Side (STD)        |
| 200 | 99-6865  | 2    | Metal-Side, O/S (0.2Mm) |
| 200 | 99-6866  | 2    | Metal-Side, O/S (0.4Mm) |
| 210 | 99-6867  | 2    | Metal-Side (STD)        |
| 210 | 99-6868  | 2    | Metal-Side, O/S (0.2Mm) |
| 210 | 99-6869  | 2    | Metal-Side, O/S (0.4Mm) |



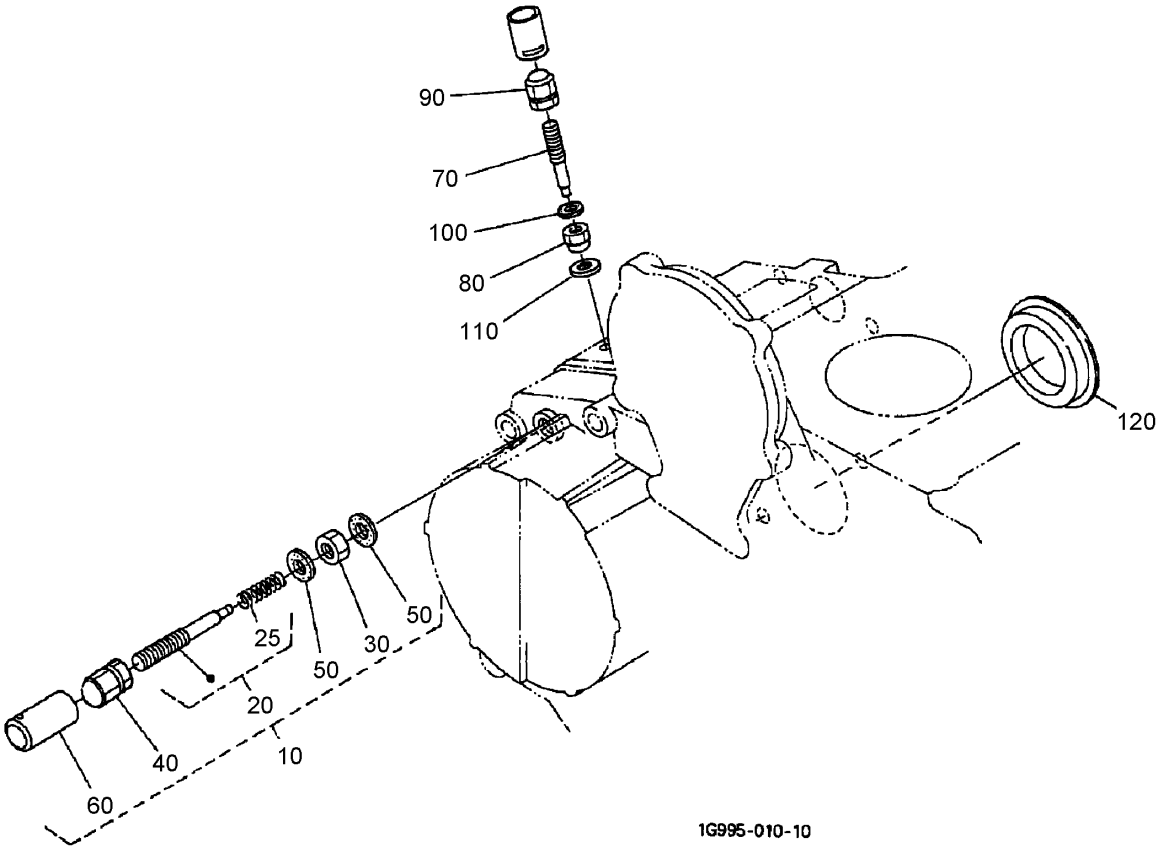
## Flywheel Assembly

| Ref | Part No. | Qty. | Description     |
|-----|----------|------|-----------------|
| 10  | 105-3784 | 1    | Flywheel ASM    |
| 20  | 105-3722 | 1    | Gear-Ring       |
| 30  | 98-9537  | 6    | Bolt-Flywheel   |
| 40  | 98-9486  | 1    | Plate-End, Rear |
| 50  | 98-9392  | 8    | Bolt            |



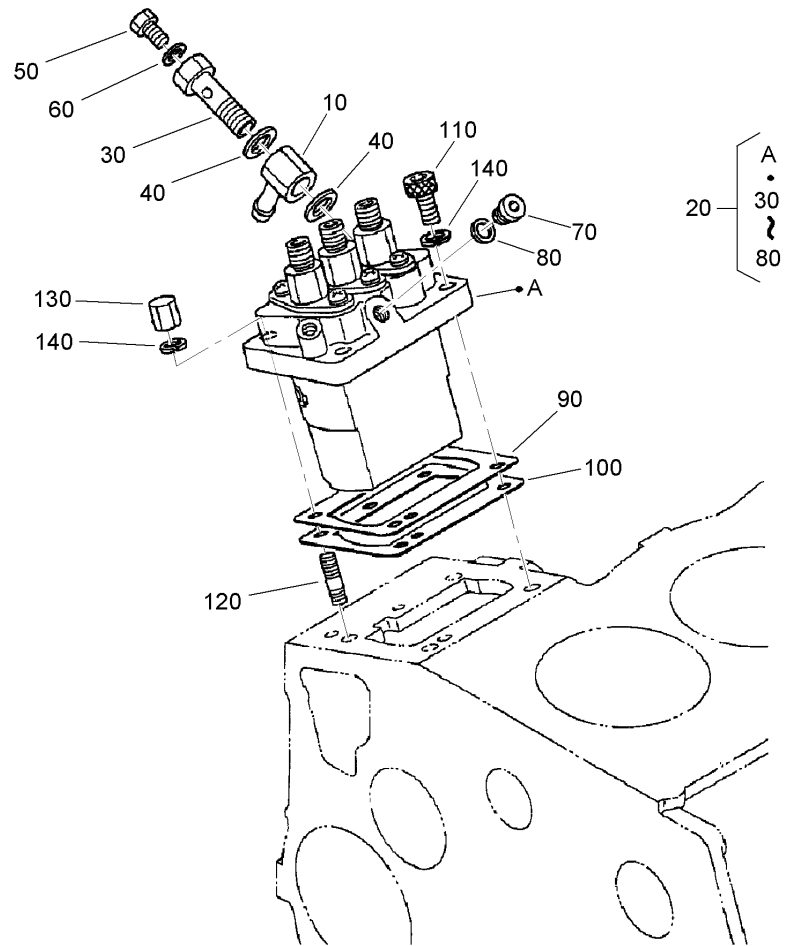
### Fuel Camshaft and Governor Shaft Assembly

| 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    | Clip-Circular, Governor Shaft |  |  |  |  |
| 220 | 98-9565  | 1    | Screw-Set                     |  |  |  |  |



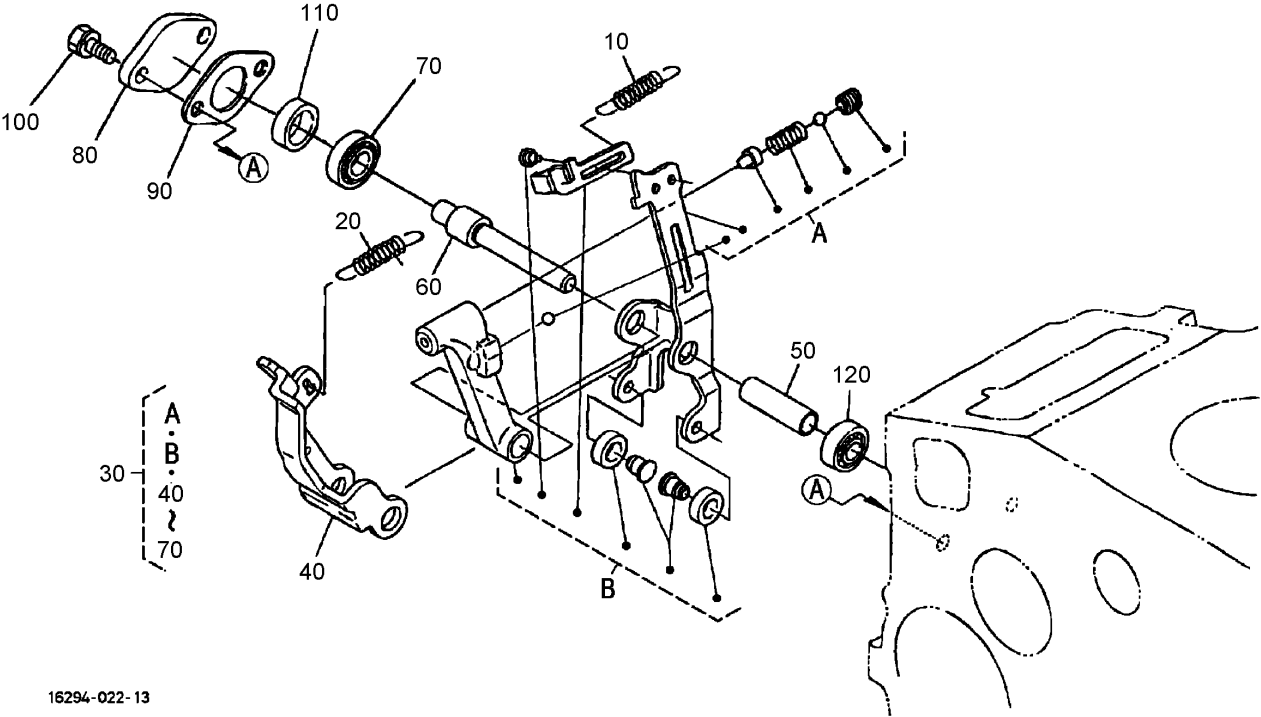
Idle Apparatus Assembly

| Ref | Part No. | Qty. | Description        |  |  |  |  |
|-----|----------|------|--------------------|--|--|--|--|
| 10  | 105-3726 | 1    | Idle Apparatus ASM |  |  |  |  |
| 20  | 104-4802 | 1    | Adjusting Bolt ASM |  |  |  |  |
| 25  | 107-9080 | 1    | Spring             |  |  |  |  |
| 30  | 98-9439  | 1    | Nut                |  |  |  |  |
| 40  | 99-8387  | 1    | Nut-Cap            |  |  |  |  |
| 50  | 98-7654  | 2    | Gasket             |  |  |  |  |
| 60  | 98-7656  | 1    | Cap                |  |  |  |  |
| 70  | 98-9557  | 1    | Bolt-Adjusting     |  |  |  |  |
| 80  | 100-2175 | 1    | Nut-Lock           |  |  |  |  |
| 90  | 99-8387  | 1    | Nut-Cap            |  |  |  |  |
| 100 | 98-7654  | 1    | Gasket             |  |  |  |  |
| 110 | 107-9081 | 1    | Gasket             |  |  |  |  |
| 120 | 98-9640  | 1    | Cover-Pump         |  |  |  |  |



Injection Pump Assembly

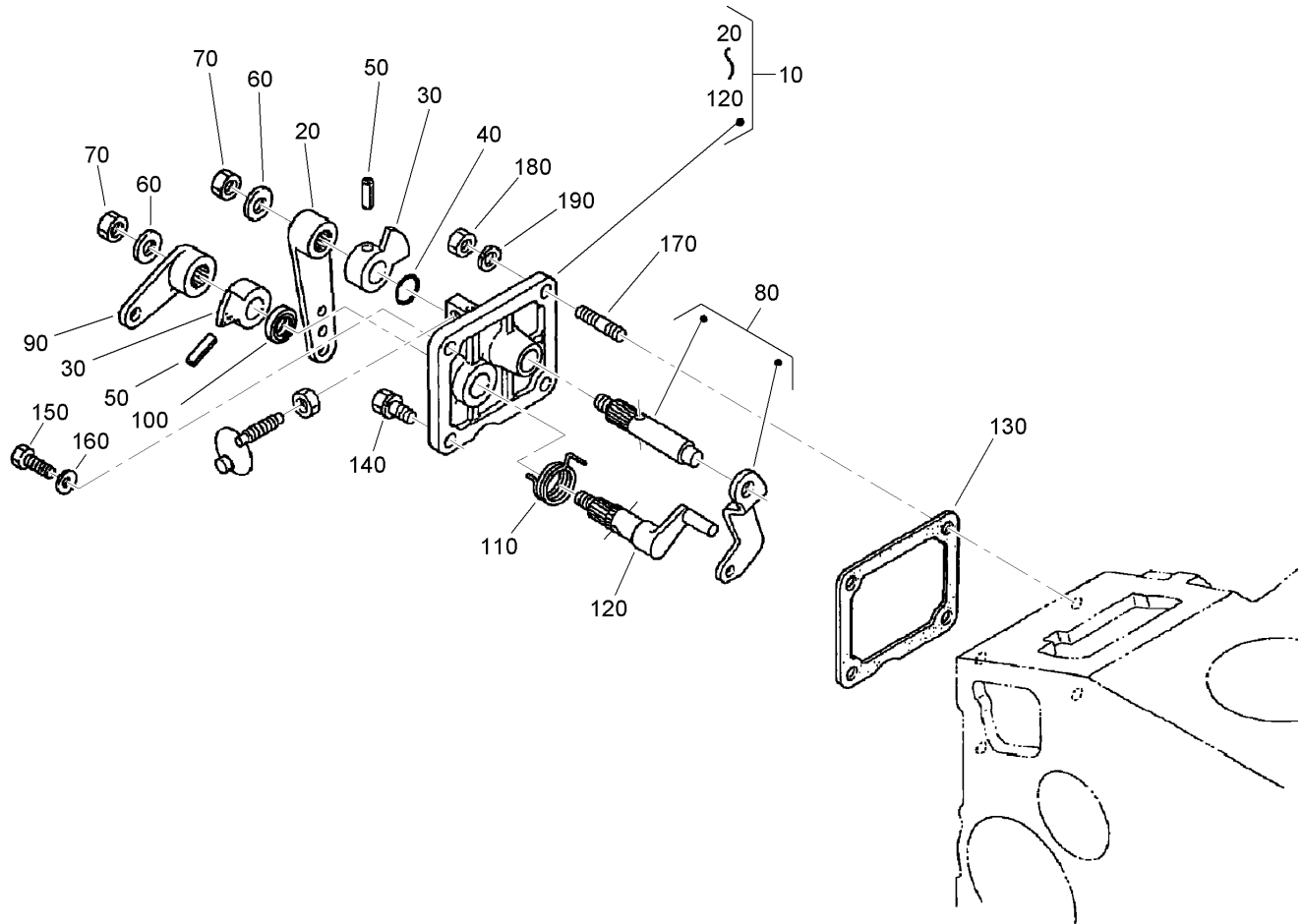
| Ref | Part No. | Qty. | Description             |  |  |  |  |
|-----|----------|------|-------------------------|--|--|--|--|
| 10  | 98-9596  | 1    | Joint-Eye               |  |  |  |  |
| 20  | 98-9643  | 1    | Injection Pump ASM      |  |  |  |  |
| 30  | 98-9464  | 1    | Bolt-Joint              |  |  |  |  |
| 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  | 98-9457  | 1    | Shim-Injection (0.25Mm) |  |  |  |  |
| 90  | 98-9456  | 1    | Shim (0.2Mm)            |  |  |  |  |
| 100 | 98-9458  | 1    | Shim-Injection (0.30Mm) |  |  |  |  |
| 110 | 98-9361  | 2    | Bolt-HSH                |  |  |  |  |
| 120 | 98-9438  | 2    | Stud                    |  |  |  |  |
| 130 | 98-9440  | 2    | Nut-Cap                 |  |  |  |  |
| 140 | 98-7699  | 4    | Washer-Spring           |  |  |  |  |



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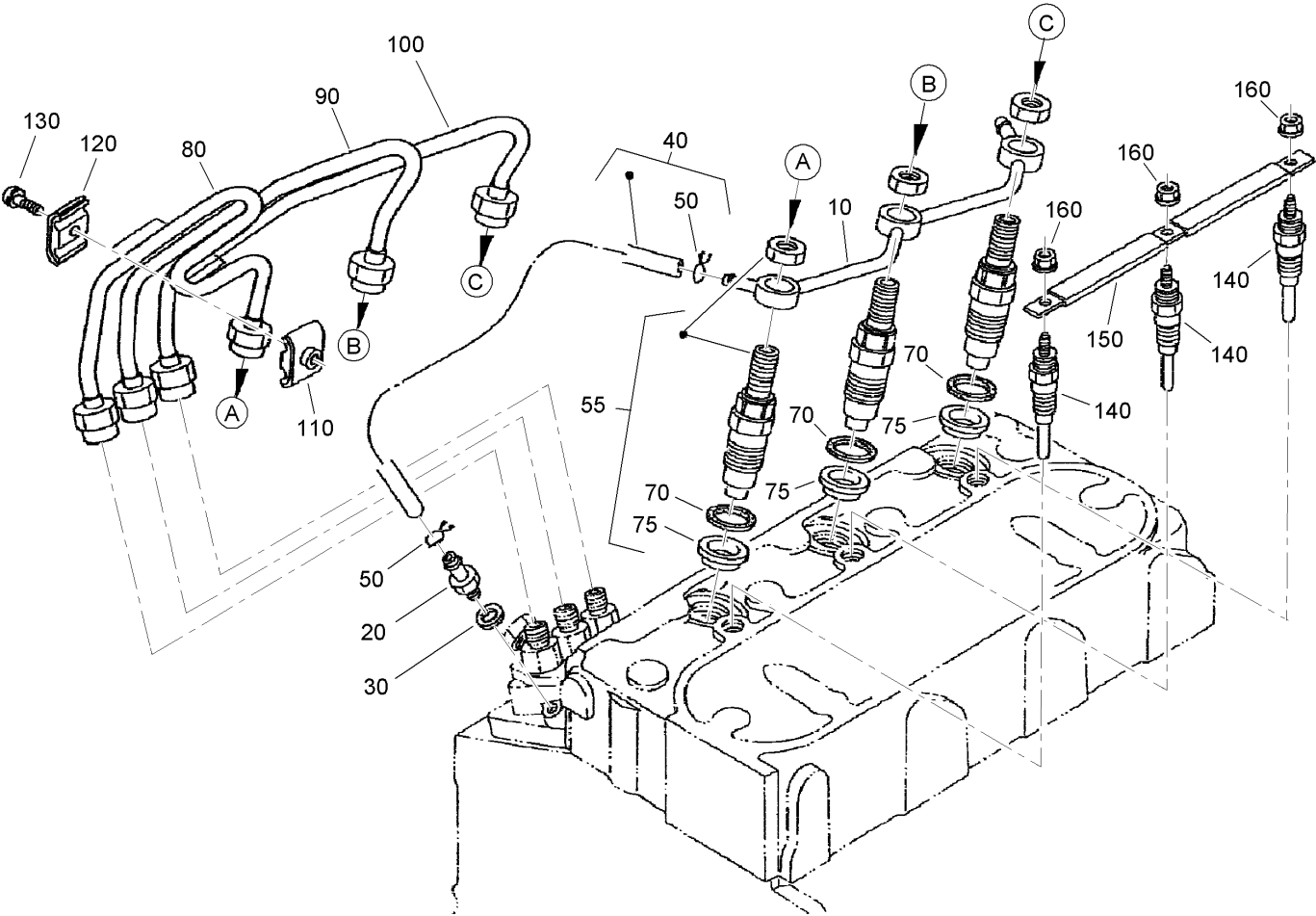
Governor Assembly

| 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 | 98-9351  | 2    | Bolt                    |  |  |  |  |
| 110 | 98-9567  | 1    | Collar                  |  |  |  |  |
| 120 | 98-9571  | 1    | Bearing-Miniaturize     |  |  |  |  |



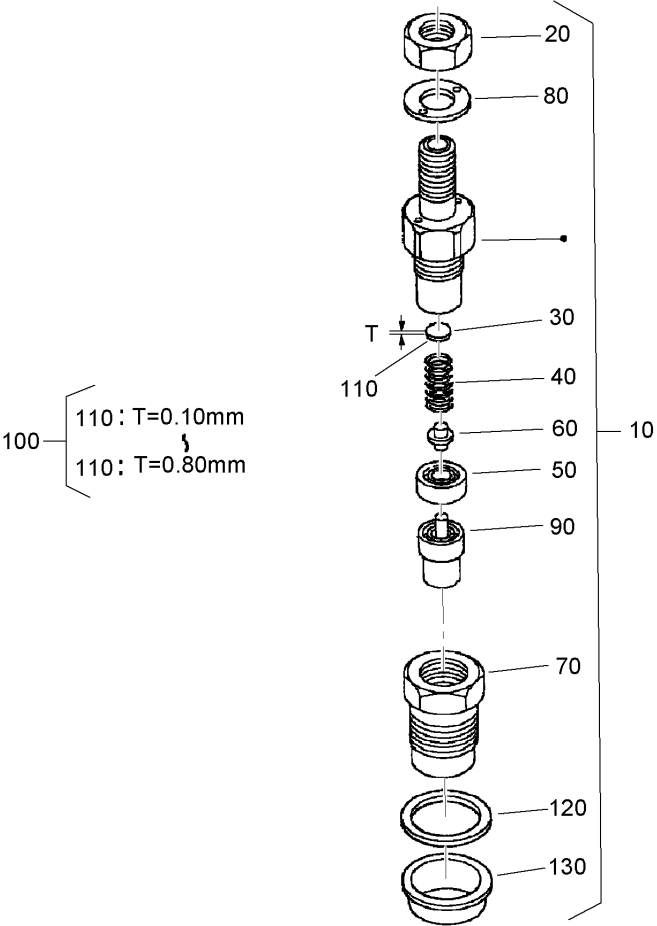
**Speed Control Plate Assembly**

| 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        |  |  |  |  |



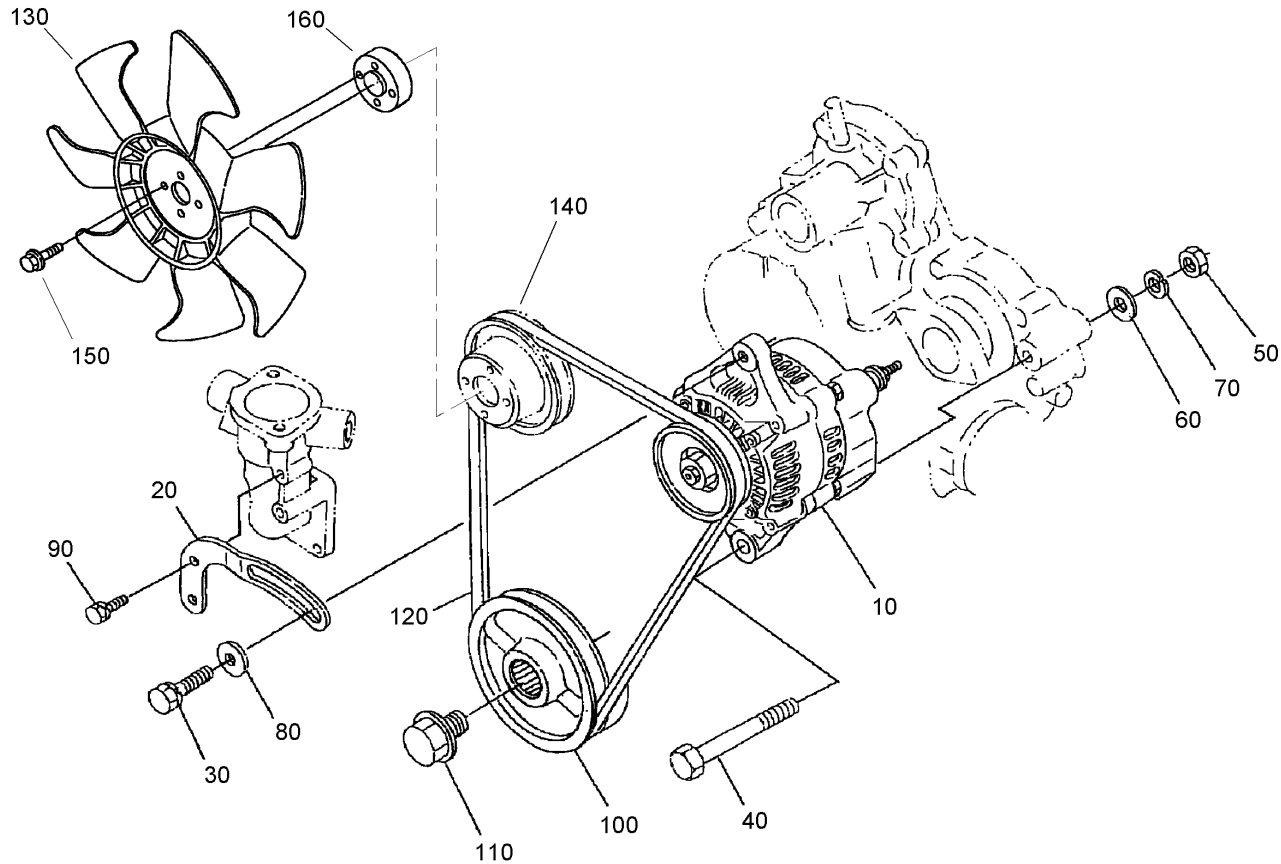
Nozzle Holder and Glow Plug Assembly

| Ref | Part No. | Qty. | Description       |  |  |  |  |
|-----|----------|------|-------------------|--|--|--|--|
| 10  | 98-9621  | 1    | Overflow Pipe ASM |  |  |  |  |
| 20  | 98-9431  | 1    | Screw-Bleeder     |  |  |  |  |
| 30  | 98-7654  | 1    | Gasket            |  |  |  |  |
| 40  | 98-9624  | 1    | Overflow Pipe ASM |  |  |  |  |
| 50  | 98-7672  | 2    | Clip-Pipe         |  |  |  |  |
| 55  | 108-2866 | 3    | Nozzle Holder Kit |  |  |  |  |
| 70  | 98-7676  | 3    | Gasket            |  |  |  |  |
| 75  | 98-7677  | 3    | Seal              |  |  |  |  |
| 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        |  |  |  |  |



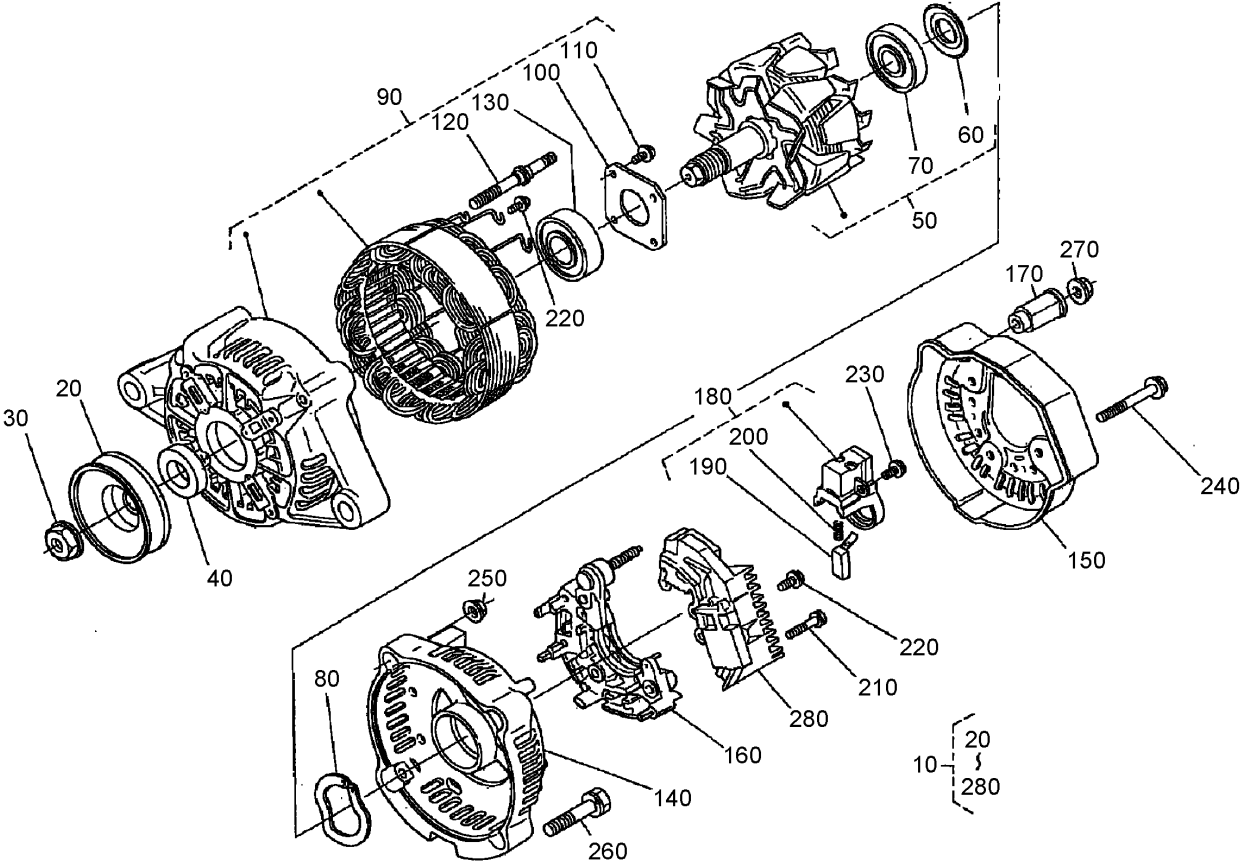
Nozzle Holder Assembly

| 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                   |  |  |  |  |



Alternator and Pulley Assembly

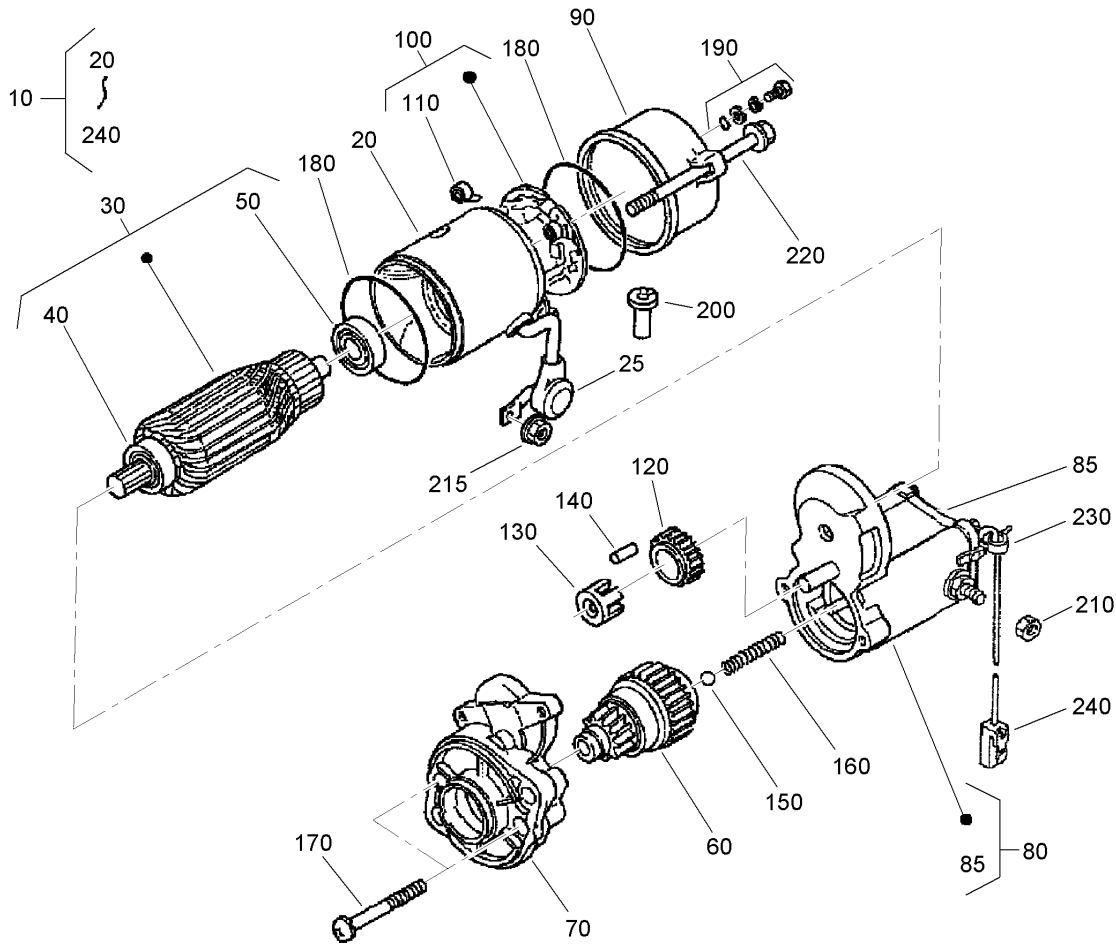
| Ref | Part No. | Qty. | Description       |  |  |  |  |
|-----|----------|------|-------------------|--|--|--|--|
| 10  | 98-9474  | 1    | Alternator ASM    |  |  |  |  |
| 20  | 98-9573  | 1    | Stay-Dynamo       |  |  |  |  |
| 30  | 98-7697  | 1    | Bolt              |  |  |  |  |
| 40  | 98-9360  | 1    | Bolt              |  |  |  |  |
| 50  | 98-7737  | 1    | Nut               |  |  |  |  |
| 60  | 98-9366  | 1    | Washer-Plain      |  |  |  |  |
| 70  | 98-7738  | 1    | Washer-Spring     |  |  |  |  |
| 80  | 100-9233 | 1    | Washer-Plain      |  |  |  |  |
| 90  | 98-7692  | 1    | Bolt              |  |  |  |  |
| 100 | 99-3456  | 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 | 108-2873 | 4    | Bolt-Flange       |  |  |  |  |
| 160 | 108-2872 | 1    | Collar-Fan        |  |  |  |  |



Alternator (Component Part) Assembly

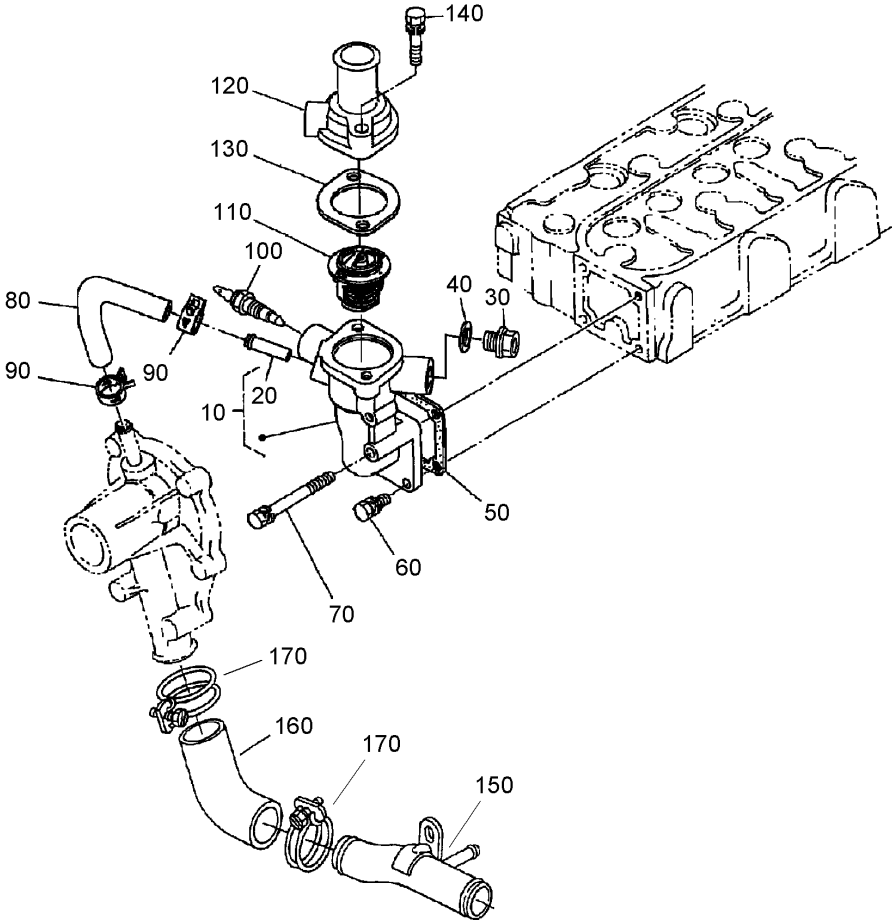
| Ref | Part No. | Qty. | Description         |
|-----|----------|------|---------------------|
| 10  | 98-9474  | 1    | Alternator ASM      |
| 20  | 98-9453  | 1    | Pulley-Dynamo       |
| 30  | 98-7708  | 1    | Nut                 |
| 40  | 98-7709  | 1    | Collar              |
| 50  | 107-0136 | 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 | 98-9476  | 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 | 107-9088 | 1    | Regulator ASM |



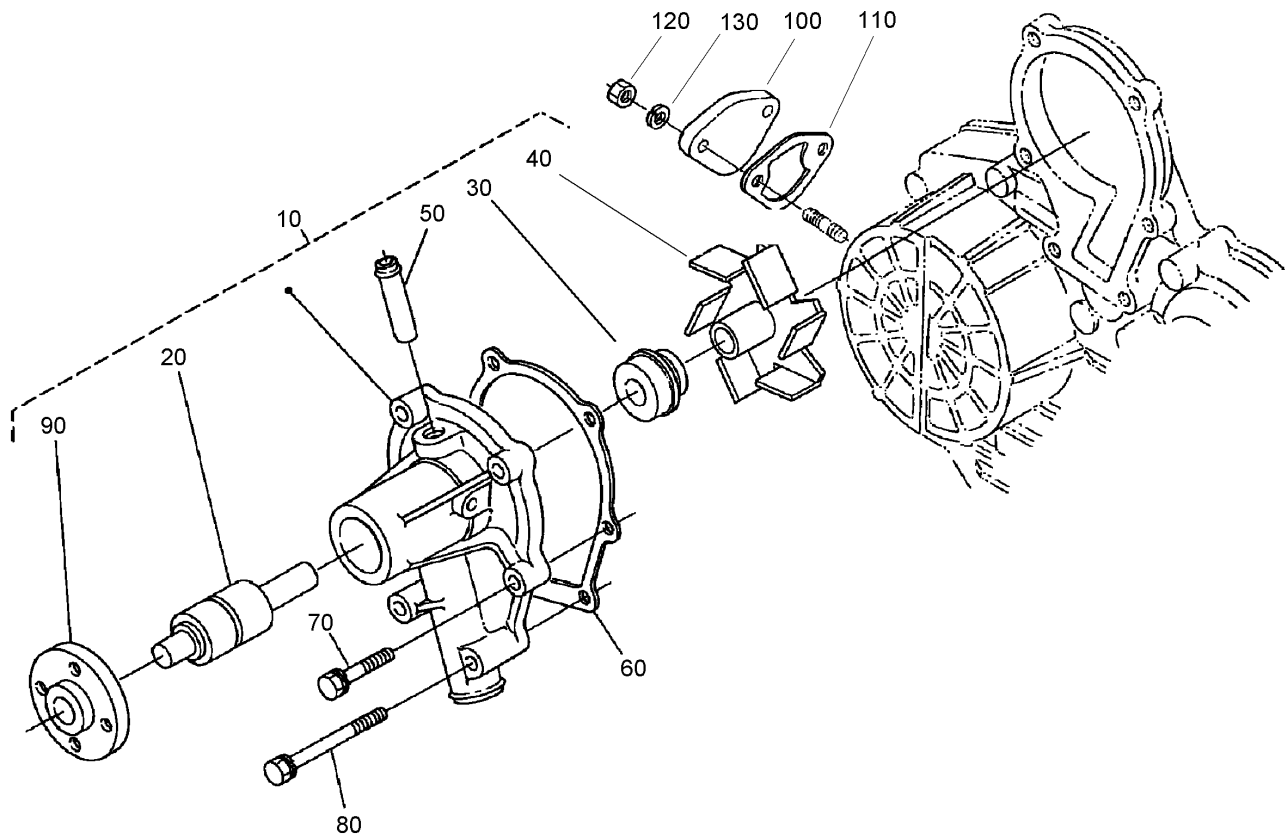
**Starter (Component Part) Assembly No. 98-9705**

| 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              |     |          |      |                     |



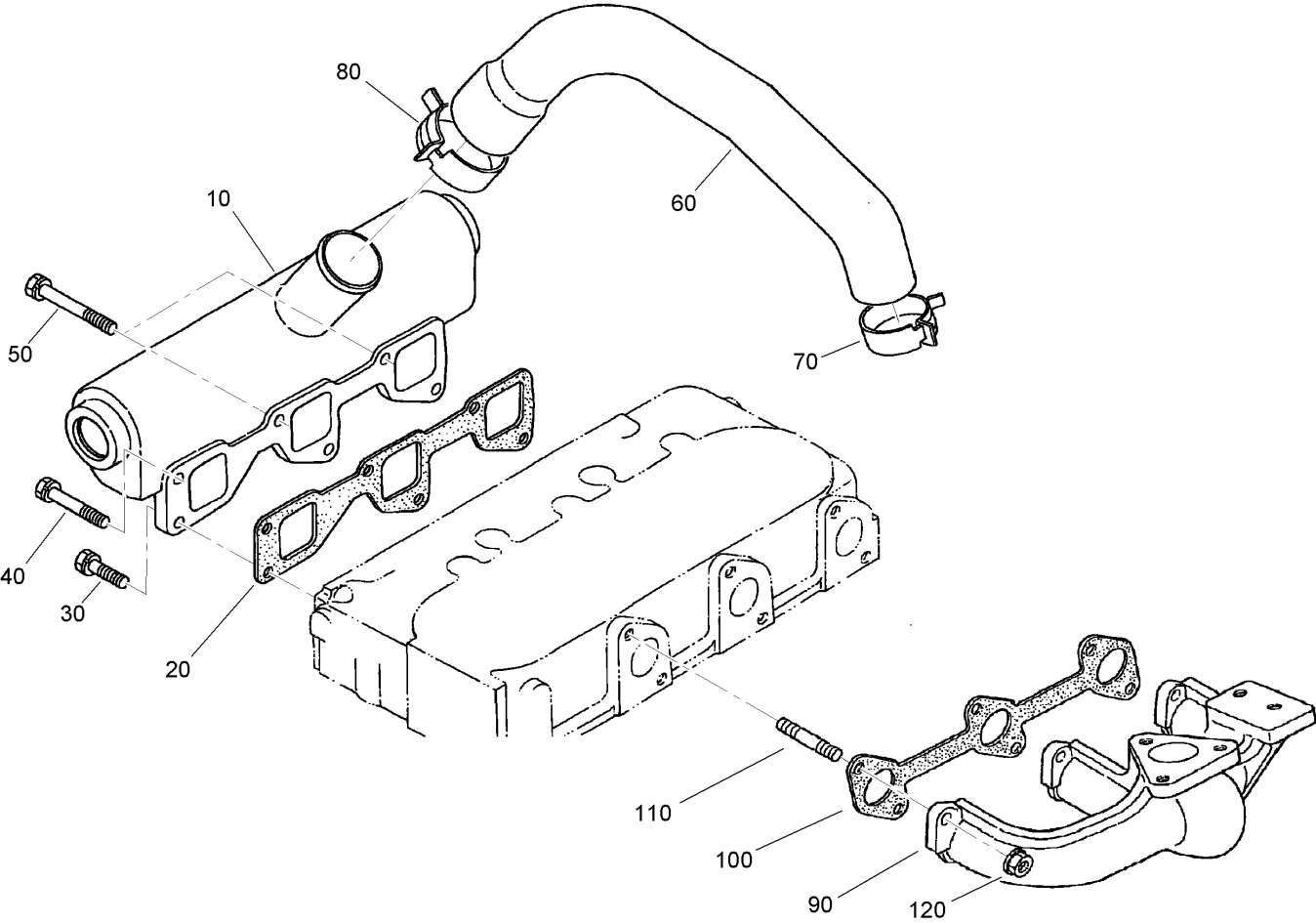
Water Flange and Thermostat Assembly

| Ref | Part No. | Qty. | Description          |  |  |  |  |
|-----|----------|------|----------------------|--|--|--|--|
| 10  | 98-9713  | 1    | Water Flange ASM     |  |  |  |  |
| 20  | 98-9580  | 1    | Pipe-Return, Water   |  |  |  |  |
| 30  | 105-3747 | 1    | Plug                 |  |  |  |  |
| 40  | 99-3583  | 1    | Packing              |  |  |  |  |
| 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 | 98-9719  | 1    | Thermoswitch         |  |  |  |  |
| 110 | 98-7778  | 1    | Thermostat ASM       |  |  |  |  |
| 120 | 104-4804 | 1    | Outlet-Water         |  |  |  |  |
| 130 | 105-3748 | 1    | Gasket-Thermostat    |  |  |  |  |
| 140 | 98-7777  | 2    | Bolt                 |  |  |  |  |
| 150 | 99-8379  | 1    | Pipe-Water           |  |  |  |  |
| 160 | 107-9091 | 1    | Pipe-Water           |  |  |  |  |
| 170 | 98-9717  | 2    | Clamp                |  |  |  |  |



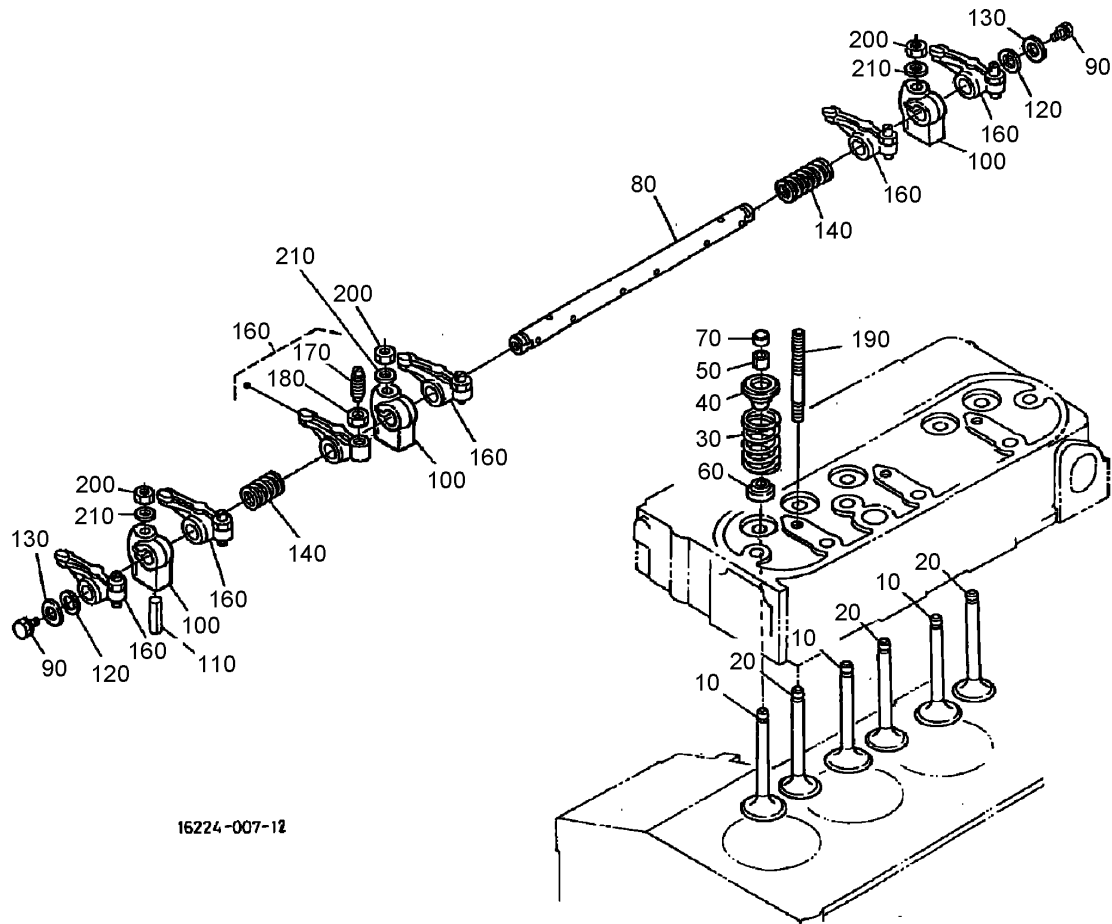
Water Pump Assembly

| 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  | 99-3519  | 1    | Impeller-Pump, Water |  |  |  |  |
| 50  | 98-9577  | 1    | Pipe-Return, Water   |  |  |  |  |
| 60  | 99-3454  | 1    | Gasket-Pump, Water   |  |  |  |  |
| 70  | 98-9353  | 4    | Bolt                 |  |  |  |  |
| 80  | 98-9357  | 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        |  |  |  |  |



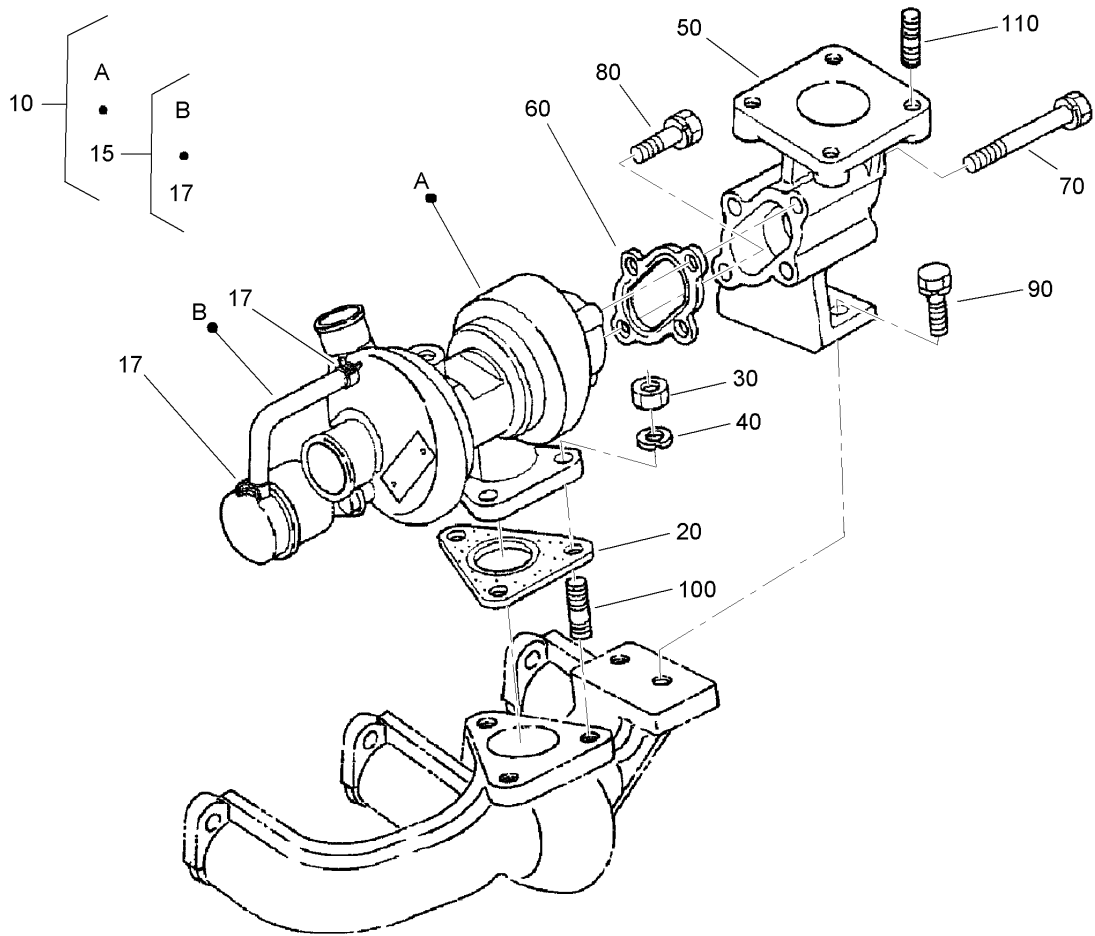
**Inlet and Exhaust Manifold Assembly**

| 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  | 99-8323  | 1    | Hose-Inlet              |  |  |  |  |
| 70  | 99-8324  | 1    | Band-Pipe               |  |  |  |  |
| 80  | 99-8322  | 1    | Band-Pipe               |  |  |  |  |
| 90  | 108-1411 | 1    | Manifold-Exhaust        |  |  |  |  |
| 100 | 98-9610  | 1    | Gasket                  |  |  |  |  |
| 110 | 98-9588  | 6    | Stud                    |  |  |  |  |
| 120 | 98-9665  | 6    | Nut                     |  |  |  |  |



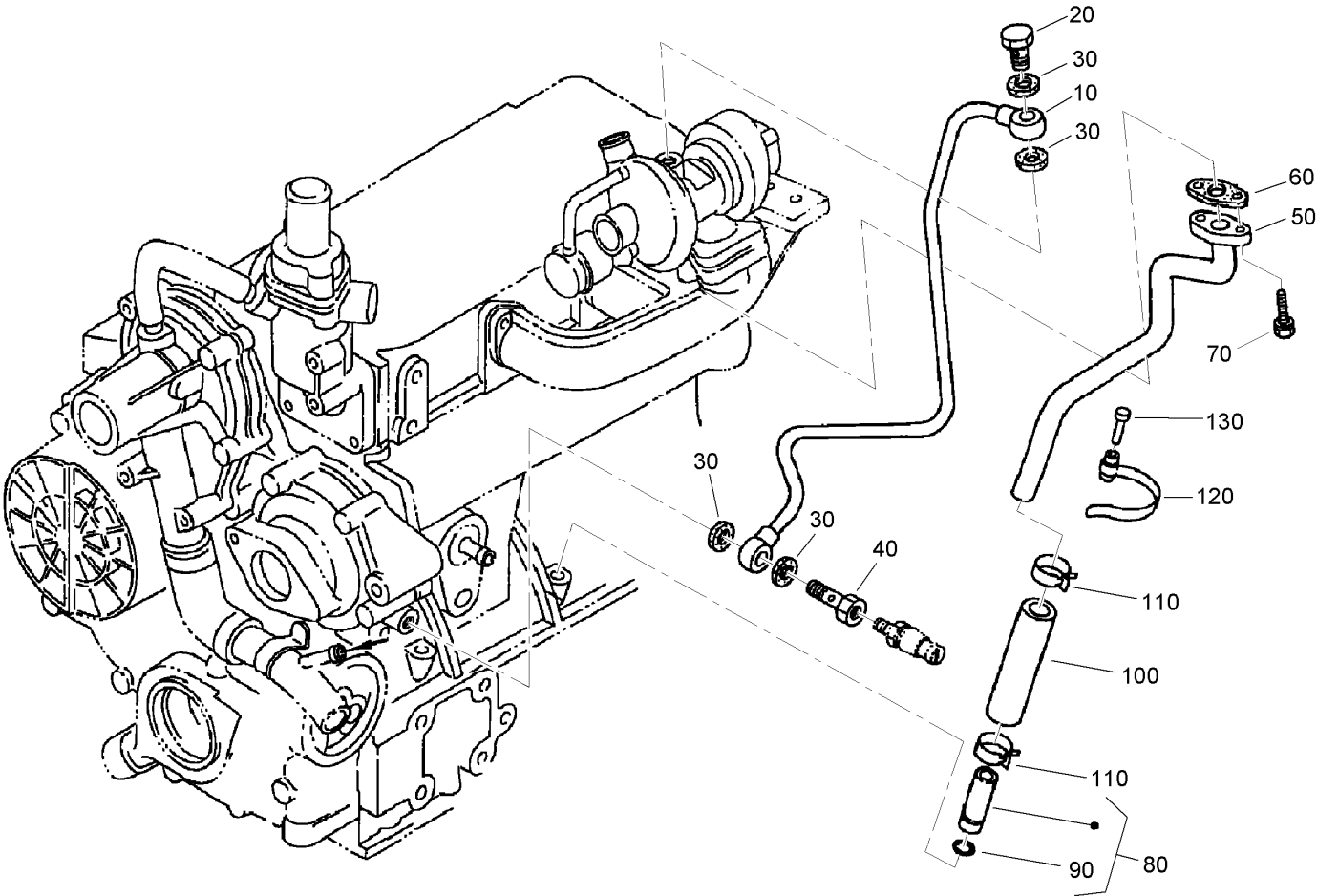
### Valve Rocker Arm Assembly

| Ref | Part No. | Qty. | Description              |  |  |  |  |
|-----|----------|------|--------------------------|--|--|--|--|
| 10  | 98-9494  | 3    | Valve-Inlet              |  |  |  |  |
| 20  | 98-9625  | 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 | 100-1927 | 2    | Washer-Plain             |  |  |  |  |
| 140 | 98-9504  | 2    | Spring-Arm, Rocker       |  |  |  |  |
| 160 | 98-9501  | 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**

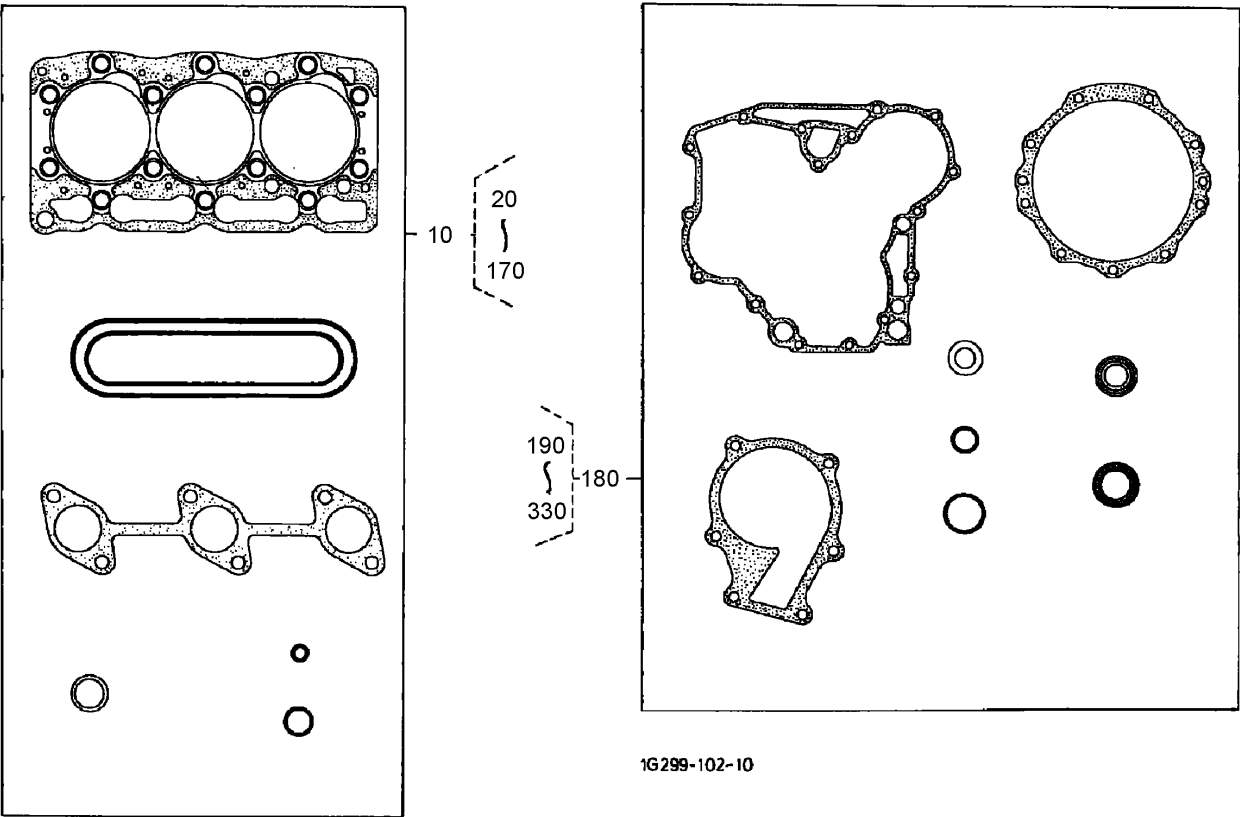
| Ref | Part No. | Qty. | Description       |  |  |  |  |
|-----|----------|------|-------------------|--|--|--|--|
| 10  | 108-1412 | 1    | Turbo Charger ASM |  |  |  |  |
| 15  | 108-1413 | 1    | Hose ASM          |  |  |  |  |
| 17  | 108-1414 | 2    | Clamp-Hose        |  |  |  |  |
| 20  | 105-3767 | 1    | Gasket            |  |  |  |  |
| 30  | 98-7534  | 3    | Nut               |  |  |  |  |
| 40  | 98-7535  | 3    | Washer-Spring     |  |  |  |  |
| 50  | 99-8335  | 1    | Flange-Muffler    |  |  |  |  |
| 60  | 105-3768 | 1    | Gasket            |  |  |  |  |
| 70  | 105-2894 | 3    | Bolt              |  |  |  |  |
| 80  | 105-2895 | 1    | Bolt              |  |  |  |  |
| 90  | 98-7610  | 2    | Bolt              |  |  |  |  |
| 100 | 99-8341  | 3    | Stud              |  |  |  |  |
| 110 | 98-7769  | 4    | Stud              |  |  |  |  |



**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  | 98-9435  | 1    | Gasket-Oil Return, Turbo |  |  |  |  |
| 70  | 98-7605  | 2    | Bolt                     |  |  |  |  |
| 80  | 99-8383  | 1    | Oil Pipe ASM             |  |  |  |  |
| 90  | 98-9374  | 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                 |  |  |  |  |

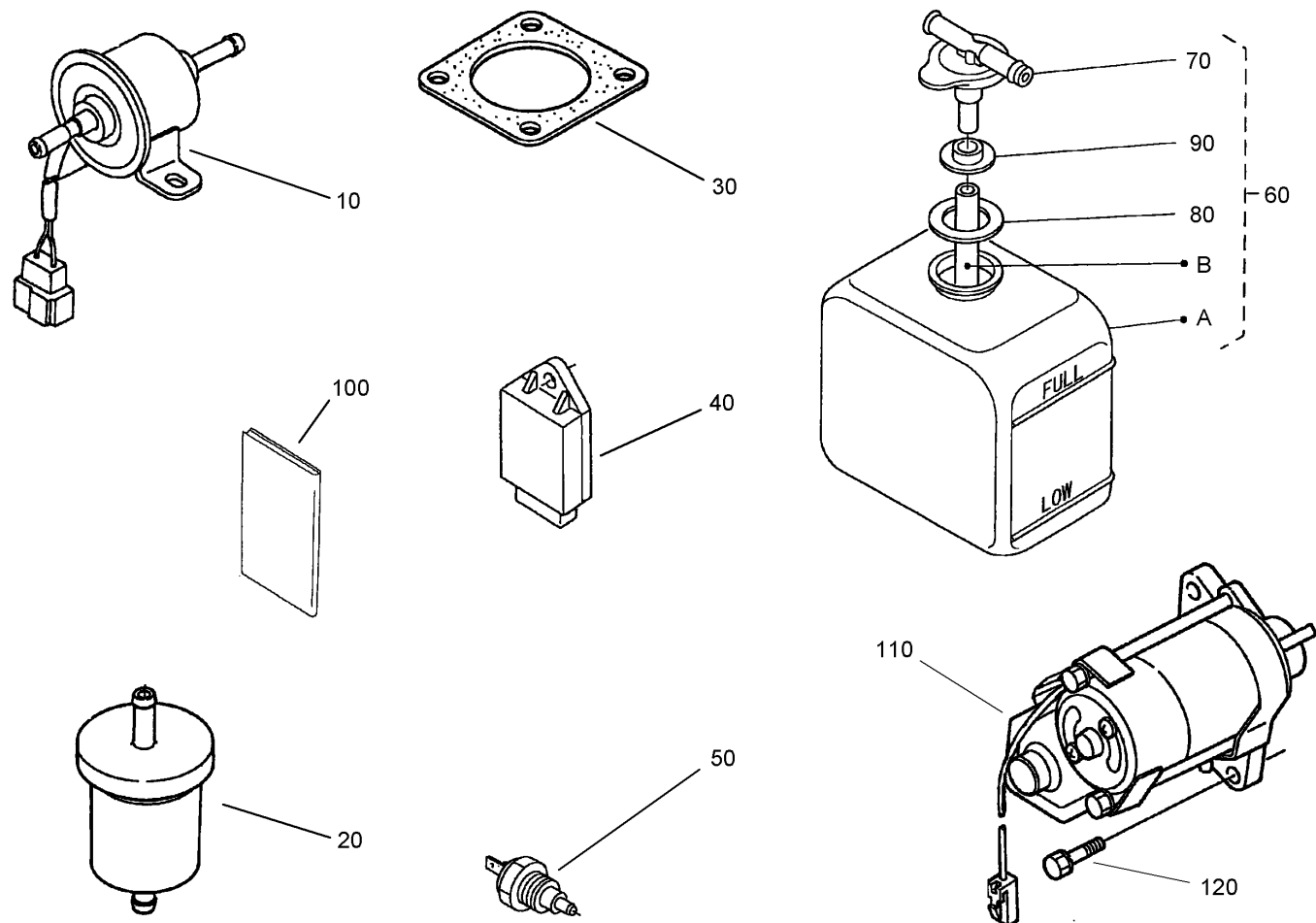




# Gasket Kit Assembly

| Ref  | Part No. | Qty. | Description                |
|------|----------|------|----------------------------|
| 10   | 108-1415 | 1    | Upper Gasket Kit           |
| ❶20  | 98-7538  | 1    | Cap-Sealing                |
| ❶30  | 105-3780 | 1    | Gasket-Head, Cylinder      |
| ❶40  | 99-8329  | 1    | Gasket-Manifold, Intake    |
| ❶50  | 105-3767 | 1    | Gasket                     |
| ❶60  | 105-3768 | 1    | Gasket                     |
| ❶70  | 98-9610  | 1    | Gasket                     |
| 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 | 98-9435  | 1    | Gasket-Oil Return, Turbo   |
| ❶140 | 98-9374  | 1    | O-Ring                     |
| ❶150 | 98-9638  | 1    | Gasket-Flange, Water       |
| ❶160 | 105-3748 | 1    | Gasket-Thermostat          |
| ❶170 | 98-9611  | 1    | Gasket                     |
| 180  | 108-1416 | 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 |

| Ref  | Part No. | Qty. | Description            |
|------|----------|------|------------------------|
| ❶250 | 105-3783 | 1    | O-Ring                 |
| 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 |



**Starter, Overflow Bottle and Other Miscellaneous Part Assembly**

| Ref | Part No. | Qty. | Description             |  |  |  |  |
|-----|----------|------|-------------------------|--|--|--|--|
| 10  | 107-0122 | 1    | Pump-Fuel, Electric     |  |  |  |  |
| 20  | 98-7612  | 1    | Filter-Fuel             |  |  |  |  |
| 30  | 98-9611  | 1    | Gasket                  |  |  |  |  |
| 40  | 98-7611  | 1    | Controller-Glow         |  |  |  |  |
| 50  | 106-7772 | 1    | Thermoswitch            |  |  |  |  |
| 60  | 104-9318 | 1    | Bottle-Overflow         |  |  |  |  |
| 70  | 105-3754 | 1    | Cap                     |  |  |  |  |
| 80  | 105-3755 | 1    | Gasket                  |  |  |  |  |
| 90  | 105-3756 | 1    | Plate                   |  |  |  |  |
| 100 | 107-7827 | 1    | Manual-Operator, Kubota |  |  |  |  |
| 110 | 98-9705  | 1    | Starter ASM             |  |  |  |  |
| 120 | 98-7697  | 2    | Bolt                    |  |  |  |  |

# Attachments and Accessories

For 30826 - Groundsmaster 3505-D

| Product Name                          | Model/Part  |
|---------------------------------------|-------------|
| Blade-Lift, High . . . . .            | 105-4089-03 |
| Blade-Sail, Angle . . . . .           | 105-9810-03 |
| Blade-Atomic . . . . .                | 107-0235-03 |
| Blade-Combo . . . . .                 | 108-9026-03 |
| 27 Inch Rotary Cutting Unit . . . . . | 30834       |
| Leaf Mulching Kit . . . . .           | 30836       |

## NOTES

## NOTES

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