Form No. 3329-243

# Groundsmaster® 4000-D

## Traction Unit

**Model No. 30410—230000201 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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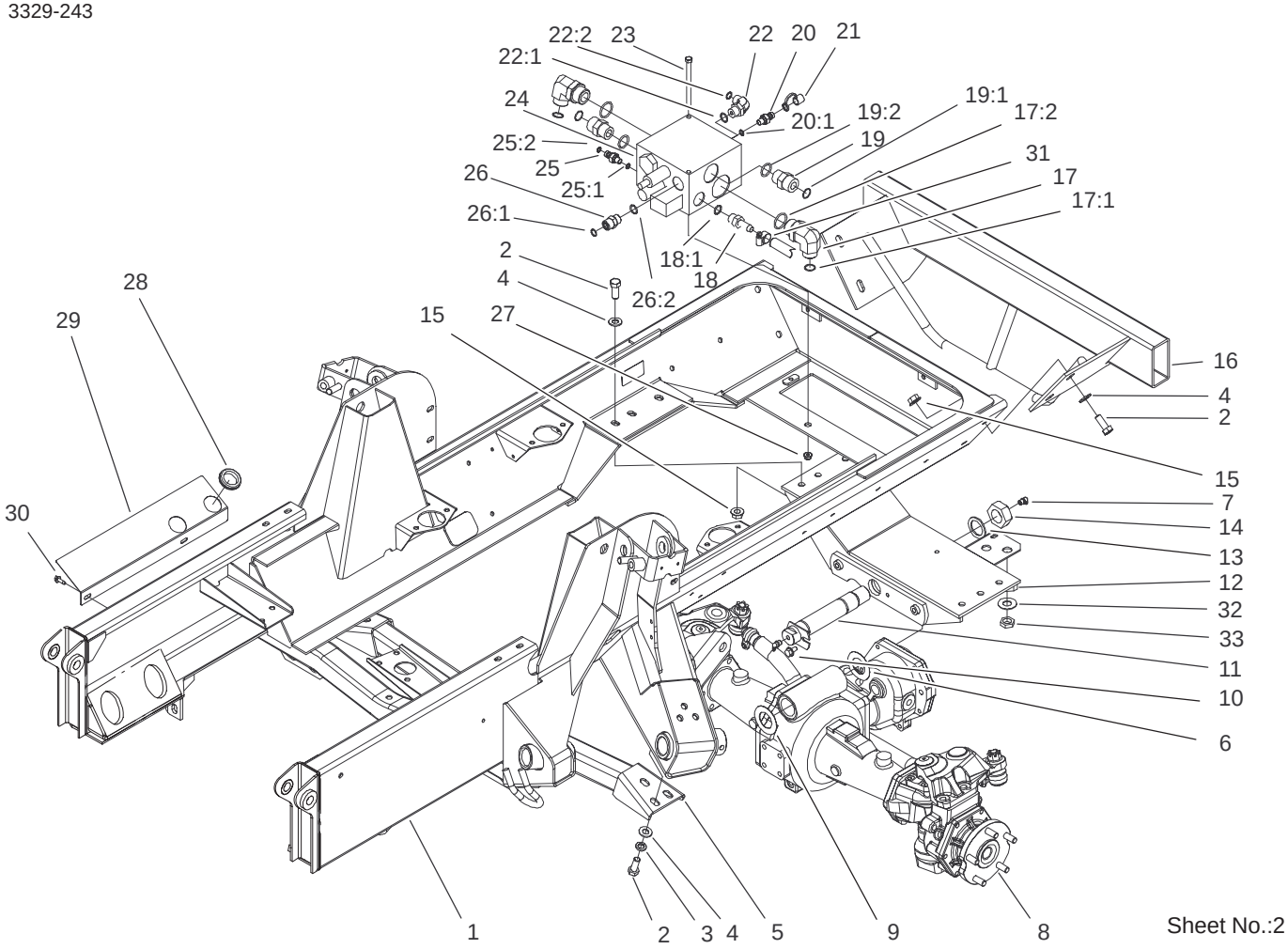

## Accessories

| Description | Model / Part No. |
|---|---|
| Guardian Recycler Conversion Kit | 30420 |
| Speed Control Kit | 30421 |
| Center Cutting Unit | 30417 |
| Left Cutting | 30416 |
| Right Cutting | 30415 |
| Seat Kit | 30398 |
| Armrest Kit | 30707 |
| Deluxe Grammer Seat Suspension | 30396 |
| Road Light Kit | 30428 |
| Air Condidtioner Mounting Kit | 30427 |
| Rotary Broom | 30426 |
| Debris Blower | 30425 |
| Test Box - Switch | 105-281 1 |

## Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

| Abbreviation | Meaning |
|---|---|
| AR | as required |
| ASM | assembly |
| CARR | carriage |
| DEG | degrees |
| FH | flat head |
| GA | gauge |
| HF | hex flange |
| HH | hex head |
| HHF | hex head flange |
| HLH | hex lag head |
| HJ | hex jam |
| HOC | height-of-cut |
| HS | hex socket |
| HSBH | hex socket button head |
| HSFH | hex socket flat head |
| HSH | hex socket head |
| HWH | hex washer head |
| HWHTF | hex washer head thread forming |
| HYD | hydraulic |
| INC | incorporated |
| LH | left hand |
| NI | nylon insert |
| PPH | Phillips pan head |
| PTH | Phillips truss head |
| PTO | power take off |
| RH | right hand |
| SFH | slotted fillister head |
| SHH | slotted hex head |
| SQH | square head |
| SHWH | slotted hex washer head |
| SPH | slotted pan head |
| SRH | slotted round head |
| STD | standard |
| TAP | self tapping |
| TTH | Torx truss head |
| WH | wing head |

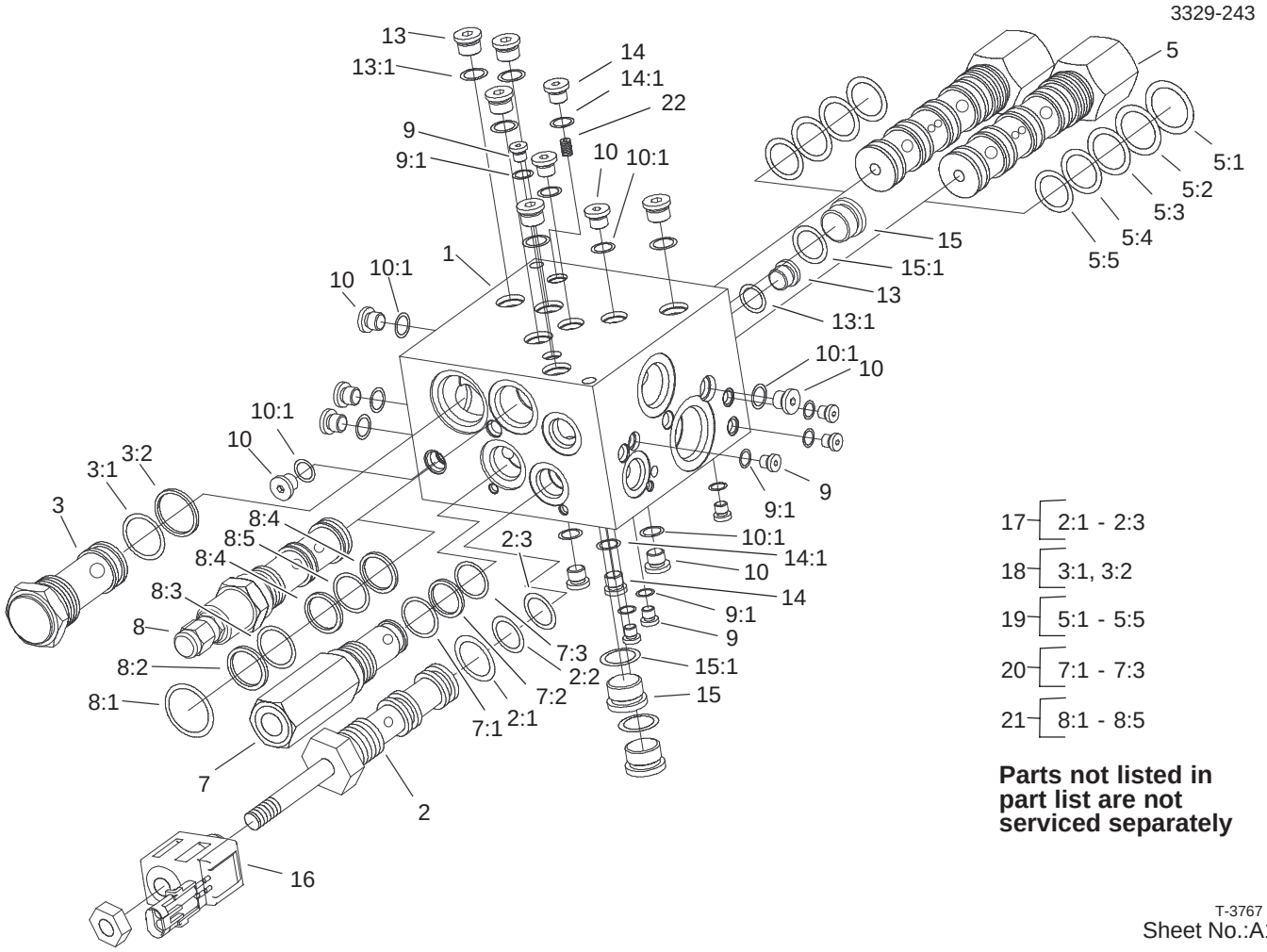



Sheet No.:2

# Frame, Rear Axle Mount and Bumper Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 99-5450-03 | 1 | Frame ASM |
| 2 | 325-5 | 16 | Screw-HH |
| 3 | 3253-7 | 6 | Washer-Lock |
| 4 | 3256-26 | 16 | Washer-Flat |
| 5 | 100-8100-03 | 1 | Support Frame ASM |
| 6 | 99-8432 | 1 | Washer-Thrust |
| 7 | 302-33 | 2 | Fitting-Grease |
| 8 | 100-3784 | 1 | Drive Axle ASM |
| 9 | 99-8431 | 1 | Washer-Thrust |
| 10 | 32144-14 | 1 | Screw-HWH |
| 11 | 98-7077 | 1 | Pin-Axle, Rear |
| 12 | 106-4265-03 | 1 | Rear Mount ASM |
| 13 | 92-1765 | 1 | Washer-Thrust |
| 14 | 3296-68 | 1 | Nut-Lock, NI |
| 15 | 32128-23 | 10 | Nut-HF |
| 16 | 104-7505-03 | 1 | Bumper ASM |
| 17 | 340-15 | 2 | Fitting-HYD, 90° |
| 17:1 | 237-58 | 1 | O-Ring |
| 17:2 | 237-146 | 1 | O-Ring |
| 18 | 354-121 | 1 | Fitting-HYD, Straight |
| 18:1 | 237-79 | 1 | O-Ring |
| 19 | 340-9 | 2 | Fitting-Straight |
| 19:1 | 237-58 | 1 | O-Ring |
| 19:2 | 237-81 | 1 | O-Ring |
| 20 | 354-77 | 1 | Fitting-Quick |
| 20:1 | 237-78 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 21 | 354-79 | 1 | Cap-Dust |
| 22 | 340-98 | 1 | Fitting-HYD, 90° |
| 22:1 | 237-79 | 1 | O-Ring |
| 22:2 | 237-30 | 1 | O-Ring |
| 23 | 322-29 | 2 | Screw-HH |
| 24 | 100-3054 | 1 | Manifold-4wd |
| 25 | 340-92 | 1 | Fitting-HYD, Straight |
| 25:1 | 237-78 | 1 | O-Ring |
| 25:2 | 237-21 | 1 | O-Ring |
| 26 | 340-4 | 1 | Adapter |
| 26:1 | 237-30 | 1 | O-Ring |
| 26:2 | 237-79 | 1 | O-Ring |
| 27 | 104-8300 | 2 | Nut-Flange, NI |
| 28 | 240-3 | 2 | Grommet-Rubber |
| 29 | 104-3562-03 | 1 | Shield-Splash |
| 30 | 32104-95 | 2 | Screw-HWH |
| 31 | 2412-36 | 1 | Clamp-Hose |
| 32 | 69-8940 | 2 | Washer |
| 33 | 340-70 | 2 | Nut-Lock |

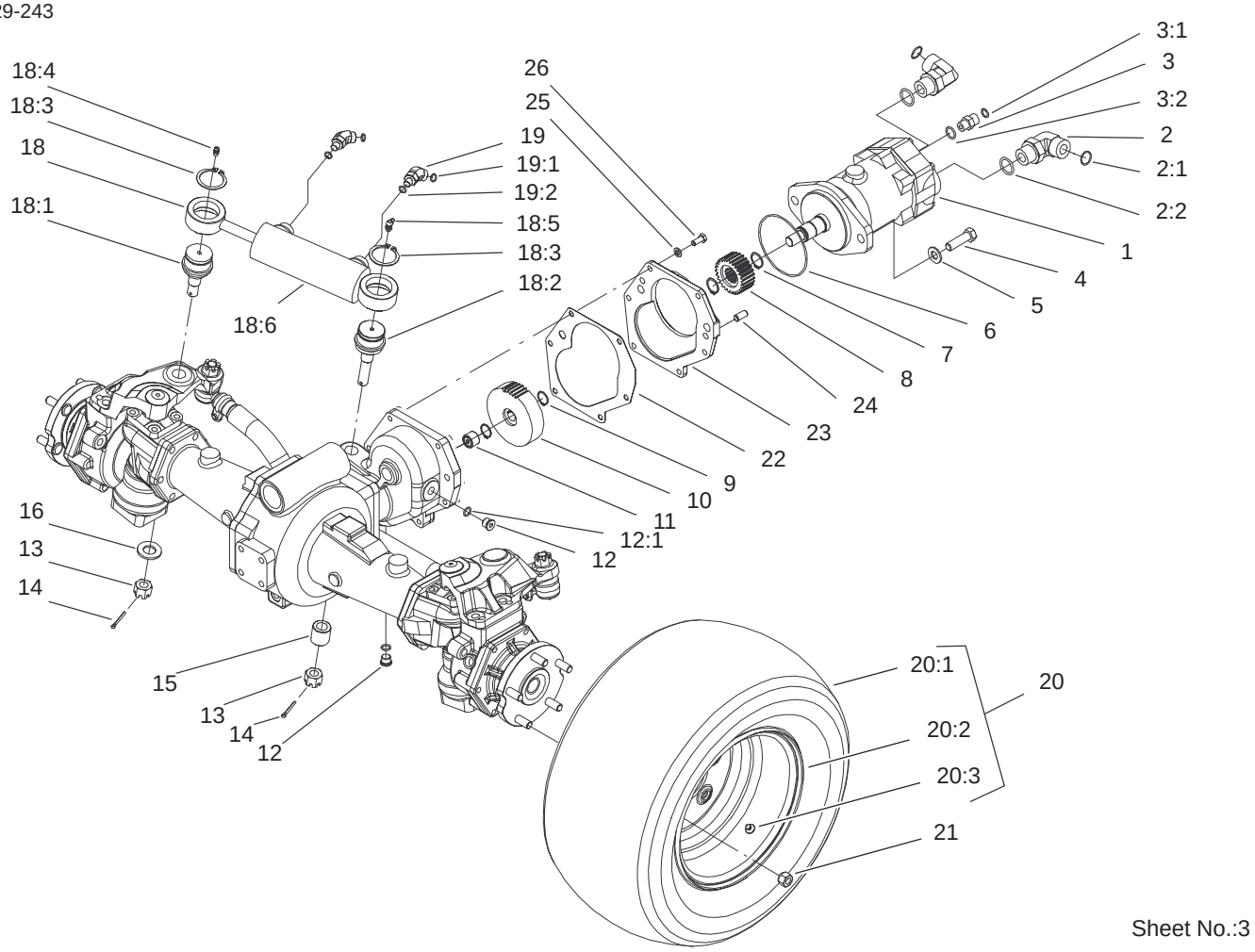



# Manifold Assembly No. 100-3054

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| ☆1 | | 1 | Manifold |
| 2 | 104-8603 | 1 | Valve-Solenoid |
| 2:1 | 99-5505 | 1 | Seal Kit |
| 3 | 104-8604 | 1 | Valve-Check |
| 3:1 | 99-5506 | 1 | Seal Kit |
| 5 | 104-8605 | 2 | Valve-Control |
| 5:1 | 99-5507 | 1 | Seal Kit |
| 7 | 99-5508 | 1 | Valve-Relief |
| 8 | 99-5509 | 1 | Valve-Reducing |
| 9 | 353-991 | 7 | Plug-Hex, Hollow |
| 9:1 | 237-156 | 1 | O-Ring |
| 10 | 354-137 | 8 | Plug |
| 10:1 | 237-86 | 1 | O-Ring |
| 13 | 353-989 | 6 | Plug-Hex, Hollow |
| 13:1 | 237-42 | 1 | O-Ring |
| 14 | 353-990 | 3 | Plug |
| 14:1 | 237-78 | 1 | O-Ring |
| 15 | 354-70 | 3 | Plug-Hex, Hollow |
| 15:1 | 237-80 | 1 | O-Ring |
| 16 | 104-4264 | 1 | Coil-Solenoid |
| 17 | 99-5505 | 1 | Seal Kit |
| 18 | 99-5506 | 1 | Seal Kit |
| 19 | 99-5507 | 2 | Seal Kit |
| 20 | 99-5503 | 1 | Seal Kit |
| 21 | 104-4266 | 1 | Seal Kit |
| 22 | 106-6766 | 1 | Plug-Orifice |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately



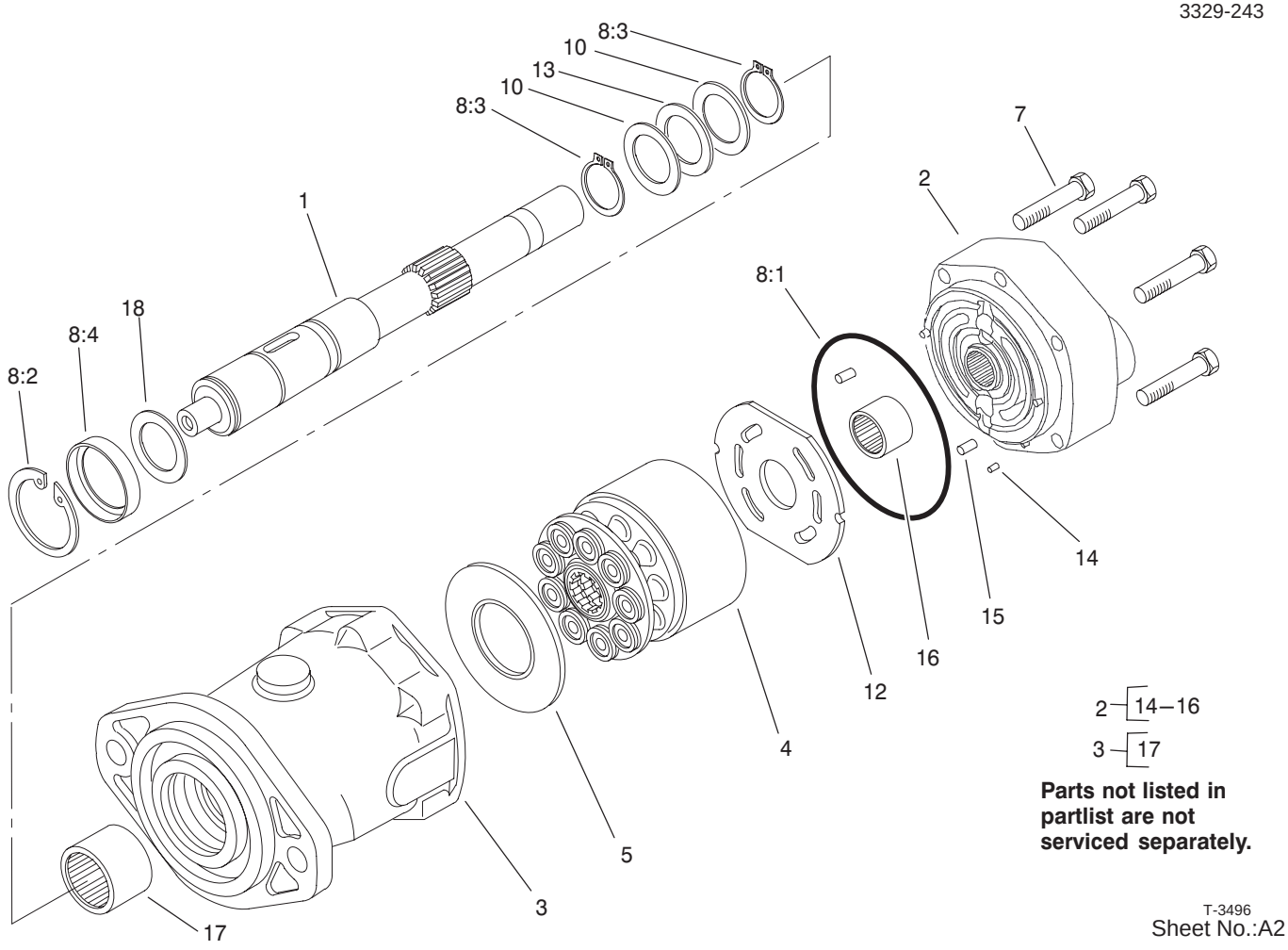

Sheet No.:3

# 4 Wheel Drive Rear Axle and Tire Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-0764 | 1 | Motor-Piston |
| 2 | 340-142 | 2 | Fitting-HYD, 90° |
| 2:1 | 237-58 | 1 | O-Ring |
| 2:2 | 237-81 | 1 | O-Ring |
| 3 | 340-2 | 1 | Fitting-Straight, HYD |
| 3:1 | 237-22 | 1 | O-Ring |
| 3:2 | 237-42 | 1 | O-Ring |
| 4 | 325-7 | 2 | Screw-HH |
| 5 | 3256-26 | 2 | Washer-Flat |
| 6 | 237-166 | 1 | O-Ring |
| 7 | 32120-76 | 2 | Ring-Snap, Ext |
| 8 | 104-0755 | 1 | Pinion-27 Tooth |
| 9 | 32120-15 | 2 | Ring-Snap, Ext |
| 10 | 100-3053 | 1 | Gear-45 Tooth |
| 11 | 74-5700 | 1 | Bearing-Needle, Roller |
| 12 | 353-989 | 2 | Plug-Hex, Hollow |
| 12:1 | 237-42 | 1 | O-Ring |
| 13 | 32136-14 | 2 | Nut-SHH |
| 14 | 3272-12 | 2 | Pin-Cotter |
| 15 | 100-3796 | 1 | Spacer-Joint, Ball |
| 16 | 92-5836 | 1 | Washer |
| 18 | 105-0775 | 1 | Steering Cylinder ASM |
| 18:1 | 92-5838 | 1 | Joint-Ball |
| 18:2 | 100-3795 | 1 | Joint-Ball |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 18:3 | 32151-104 | 2 | Ring-Retaining, External |
| 18:4 | 302-5 | 1 | Fitting-Grease |
| 18:5 | 302-60 | 1 | Fitting-Grease |
| ☆18:6 | | 1 | Cylinder-Steering |
| 19 | 340-54 | 2 | Elbow-45 ° |
| 19:1 | 237-22 | 1 | O-Ring |
| 19:2 | 237-78 | 1 | O-Ring |
| ☆20 | | 2 | Wheel And Tire ASM |
| 20:1 | 94-5236 | 1 | Tire |
| 20:2 | 100-2582 | 1 | Rim |
| 20:3 | 232-27 | 1 | Stem-V alve |
| 21 | 93-5268 | 10 | Nut-Lug |
| 22 | 95-7540 | 1 | Gasket |
| 23 | 95-7541 | 1 | Plate-Cover |
| 24 | 104-2353 | 2 | Pin-Dowel |
| 25 | 3253-4 | 6 | Washer-Lock |
| 26 | 33114-020 | 6 | Screw-HH |

☆ Not serviced separately



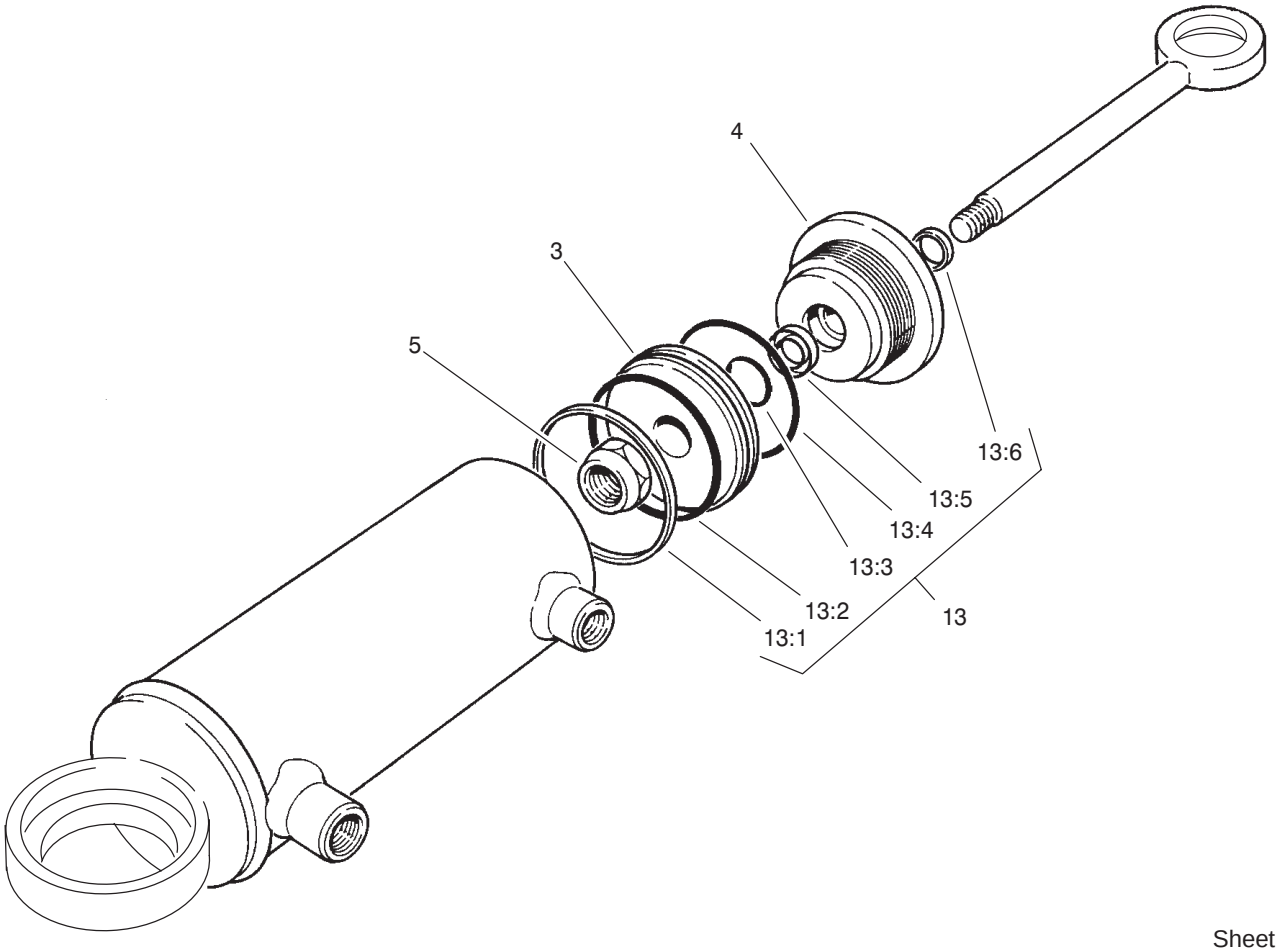

T-3496
Sheet No.:A2

# Motor Assembly No. 104-0764

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105-2853 | 1 | Shaft-Drive |
| 2 | 105-2854 | 1 | Backplate ASM |
| 3 | 105-2855 | 1 | Housing ASM |
| 4 | 76-6910 | 1 | Rotating Kit |
| 5 | 76-6970 | 1 | Insert-Plate, Cam |
| 7 | 94-3002 | 6 | Capscrew |
| 8 | 106-6876 | 1 | Seal Kit |
| ☆8:1 | | 1 | O-Ring |
| 8:2 | 93-6360 | 1 | Retaining Ring |
| 8:3 | 76-7000 | 2 | Ring-Retaining |
| 8:4 | 105-3331 | 1 | Seal-Shaft |
| 10 | 76-6950 | 2 | Race-Thrust |
| 12 | 94-3003 | 1 | Plate-V alve |
| 13 | 76-6960 | 1 | Bearing-Thrust |
| ☆14 | | 3 | Pin-Dowel |
| ☆15 | | 1 | Pin-Dowel |
| ☆16 | | 1 | Bearing-Needle |
| ☆17 | | 1 | Bearing-Needle |
| 18 | 60-6240 | 1 | Washer |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

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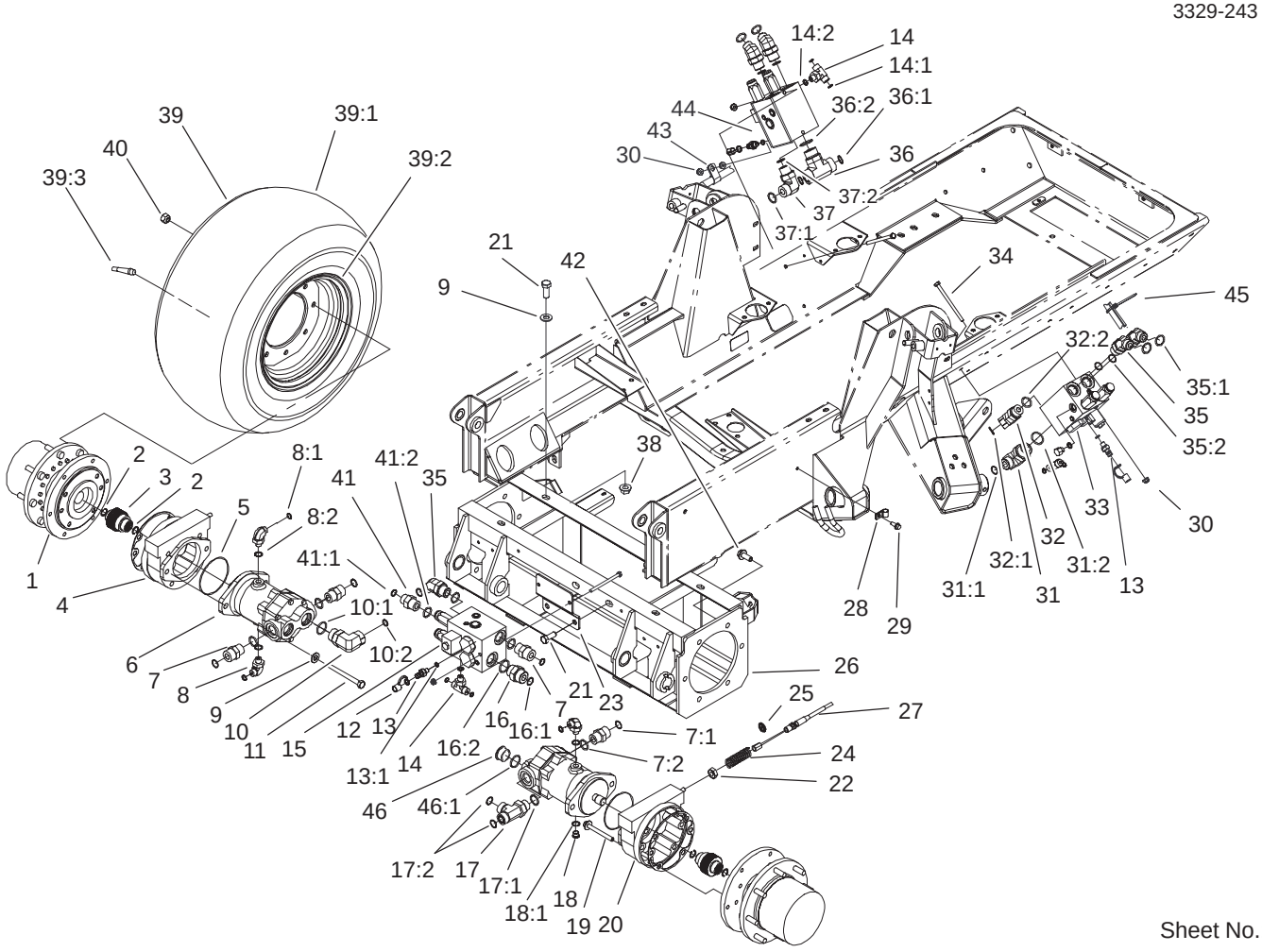

T–3527
Sheet No.:A3

# Hydraulic Cylinder Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 3 | 66-1940 | 1 | Piston |
| 4 | 92-6588 | 1 | Gland |
| 5 | 66-1930 | 1 | Locknut |
| 13 | 92-6593 | 1 | Seal Kit |
| ☆13:1 | | 1 | Seal |
| ☆13:2 | | 1 | O-Ring |
| ☆13:3 | | 1 | O-Ring |
| ☆13:4 | | 1 | O-Ring |
| ☆13:5 | | 1 | U-Cup |
| ☆13:6 | | 1 | Wiper |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

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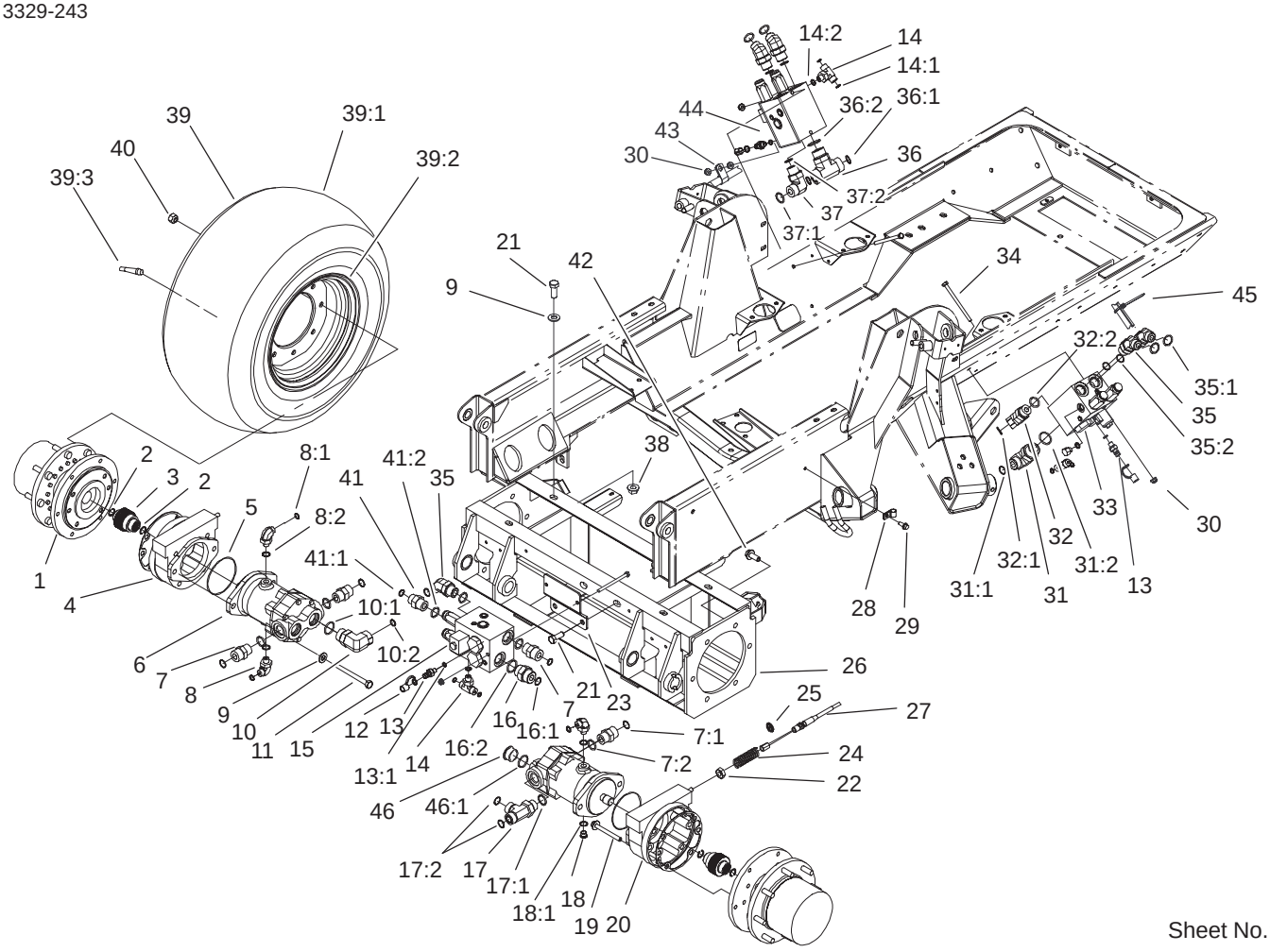



Sheet No.:4

# Planetary, Brake and Tire Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105-4588-03 | 2 | Planetary ASM |
| 2 | 93-7972 | 4 | Ring-Retaining, Internal |
| 3 | 100-3046 | 2 | Shaft-Brake, Splined |
| 4 | 100-3069 | 1 | Brake ASM |
| 5 | 237-166 | 2 | O-Ring |
| 6 | 100-3052 | 2 | Piston Motor ASM |
| 7 | 340-9 | 4 | Fitting-Straight |
| 7:1 | 237-58 | 1 | O-Ring |
| 7:2 | 237-81 | 1 | O-Ring |
| 8 | 340-99 | 3 | Fitting-HYD, 90° |
| 8:1 | 237-30 | 1 | O-Ring |
| 8:2 | 237-42 | 1 | O-Ring |
| 9 | 3256-26 | 10 | Washer-Flat |
| 10 | 340-129 | 1 | Fitting-HYD, 90° |
| 10:1 | 237-146 | 1 | O-Ring |
| 10:2 | 340-65 | 1 | O-Ring |
| 11 | 33116-120 | 4 | Screw-HH |
| 12 | 354-79 | 3 | Cap-Dust |
| 13 | 354-77 | 3 | Fitting-Quick |
| 13:1 | 237-78 | 1 | O-Ring |
| 14 | 340-94 | 3 | Adapter |
| 14:1 | 237-22 | 2 | O-Ring |
| 14:2 | 237-42 | 1 | O-Ring |
| 15 | 106-2039 | 1 | PTO Manifold ASM |
| 16 | 340-91 | 1 | Adapter |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 16:1 | 237-58 | 1 | O-Ring |
| 16:2 | 237-146 | 1 | O-Ring |
| 17 | 340-148 | 1 | Fitting-Tee |
| 17:1 | 237-81 | 1 | O-Ring |
| 17:2 | 237-58 | 2 | O-Ring |
| 18 | 353-989 | 1 | Plug-Hex, Hollow |
| 18:1 | 237-42 | 1 | O-Ring |
| 19 | 33106-090 | 8 | Screw-HHF |
| 20 | 100-3070 | 1 | Brake ASM |
| 21 | 325-5 | 8 | Screw-HH |
| 22 | 3218-4 | 2 | Nut-Jam |
| 23 | 104-0746-03 | 1 | Bracket-Manifold |
| 24 | 94-3088 | 2 | Spring-Compression |
| 25 | 94-3050 | 2 | Plate-Spring |
| 26 | 105-7491-03 | 1 | Front Frame ASM |
| 27 | 99-5501 | 2 | Brake Cable ASM |
| 28 | 2412-93 | 2 | Clamp-R |
| 29 | 32144-11 | 2 | Screw-TAP |
| 30 | 104-8300 | 7 | Nut-Flange, NI |
| 31 | 340-15 | 1 | Fitting-HYD, 90° |
| 31:1 | 237-58 | 1 | O-Ring |
| 31:2 | 237-146 | 1 | O-Ring |
| 32 | 100-5530 | 1 | Fitting-45 ° |
| 32:1 | 237-58 | 1 | O-Ring |
| 32:2 | 237-81 | 1 | O-Ring |
| 33 | 100-3055 | 1 | PTO Manifold ASM |



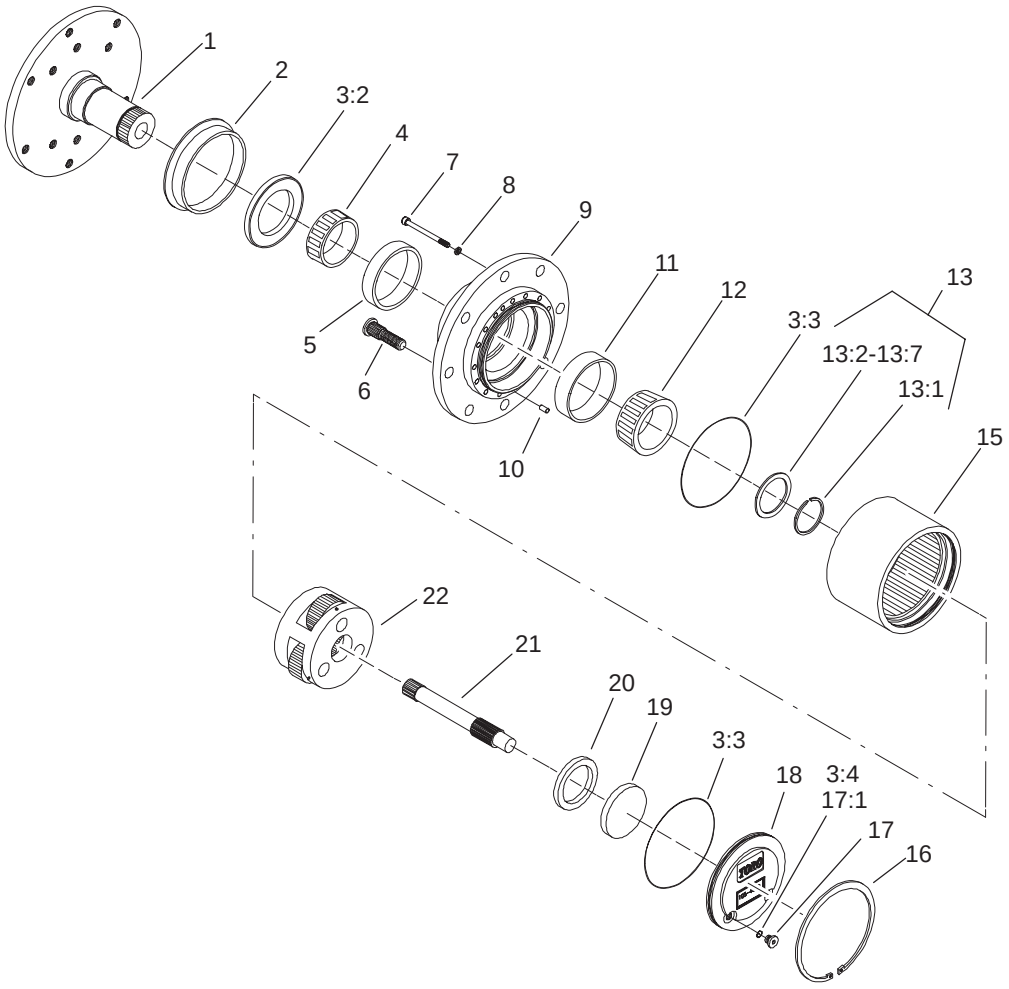

Sheet No.:4

# Planetary, Brake and Tire Assembly (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 34 | 322-38 | 6 | Screw-HH |
| 35 | 340-156 | 5 | Fitting-HYD |
| 35:1 | 237-65 | 1 | O-Ring |
| 35:2 | 237-81 | 1 | O-Ring |
| 36 | 104-7501 | 1 | Fitting-HYD |
| 36:1 | 340-65 | 2 | O-Ring |
| 36:2 | 237-146 | 1 | O-Ring |
| 37 | 340-142 | 1 | Fitting-HYD, 90° |
| 37:1 | 237-58 | 1 | O-Ring |
| 37:2 | 237-81 | 1 | O-Ring |
| 38 | 32128-23 | 8 | Nut-HF |
| ☆39 | | 2 | Tire & Wheel ASM |
| 39:1 | 99-5434 | 1 | Tire |
| 39:2 | 99-5432 | 1 | Rim |
| 39:3 | 232-27 | 1 | Stem-V alve |
| 40 | 242-50 | 16 | Nut-Lug |
| 41 | 340-8 | 1 | Adapter |
| 41:1 | 237-65 | 1 | O-Ring |
| 41:2 | 237-81 | 1 | O-Ring |
| 42 | 33106-030 | 12 | Screw-HHF |
| 43 | 2412-81 | 1 | Clamp |
| 44 | 105-4562 | 1 | PTO Manifold ASM |
| 45 | 3290-378 | 3 | Tie-Cable |
| 46 | 106-2030 | 1 | Plug-Hex, Hollow |
| 46:1 | 237-146 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately



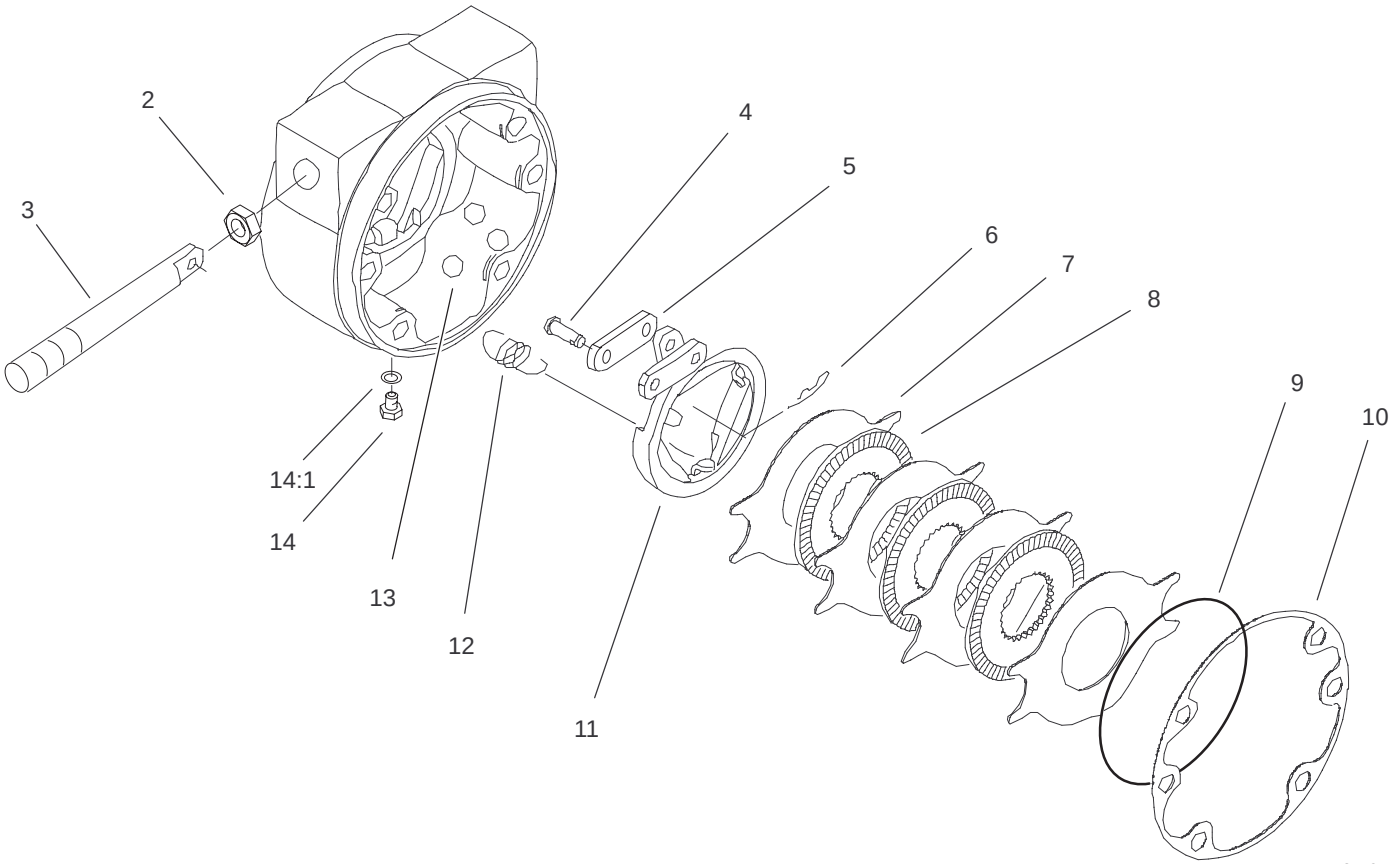

Sheet No.:A4

# Planetary Assembly No. 105-4588-03

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| ☆1 | | 1 | Spindle |
| 2 | 105-8122 | 1 | Seal-Boot |
| 3 | 105-8137 | 1 | Seal Kit |
| ☆3:2 | | 1 | Seal-Oil |
| ☆3:3 | | 2 | O-Ring, End Cap |
| 3:4 | 237-78 | 2 | O-Ring, Plug |
| 4 | 105-8120 | 1 | Bearing-Cone |
| 5 | 105-8119 | 1 | Bearing-Cup |
| 6 | 105-8124 | 8 | Stud-Wheel |
| 7 | 105-8125 | 16 | Bolt-Socket Head |
| 8 | 3253-18 | 16 | Washer-Lock/Sp |
| ☆9 | | 1 | Housing |
| 10 | 105-8121 | 2 | Pin-Dowel |
| 11 | 105-8117 | 1 | Bearing-Cup |
| 12 | 105-8118 | 1 | Bearing-Cone |
| 13 | 105-8136 | 1 | Part Kit |
| ☆13:1 | | 1 | Ring-Snap |
| ☆13:2 | | 1 | Shim-Bearing, 2.9mm |
| ☆13:3 | | 1 | Shim-Bearing, 2.8mm |
| ☆13:4 | | 1 | Shim-Bearing, 2.7mm |
| ☆13:5 | | 1 | Shim-Bearing, 2.6mm |
| ☆13:6 | | 1 | Shim-Bearing, 2.5mm |
| ☆13:7 | | 1 | Shim-Bearing, 2.4mm |
| 15 | 105-8113 | 1 | Gear-Ring |
| 16 | 105-8132 | 1 | Ring-Retaining |
| 17 | 353-990 | 2 | Plug |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 17:1 | 237-78 | 1 | O-Ring |
| 18 | 105-8138 | 1 | Cap-End |
| 19 | 105-8135 | 1 | Plug,Thrust |
| 20 | 106-6864 | 1 | Washer-Thrust |
| 21 | 105-8116 | 1 | Shaft,Drive |
| 22 | 106-6865 | 1 | Secondary Carrier ASM |

☆ Not serviced separately

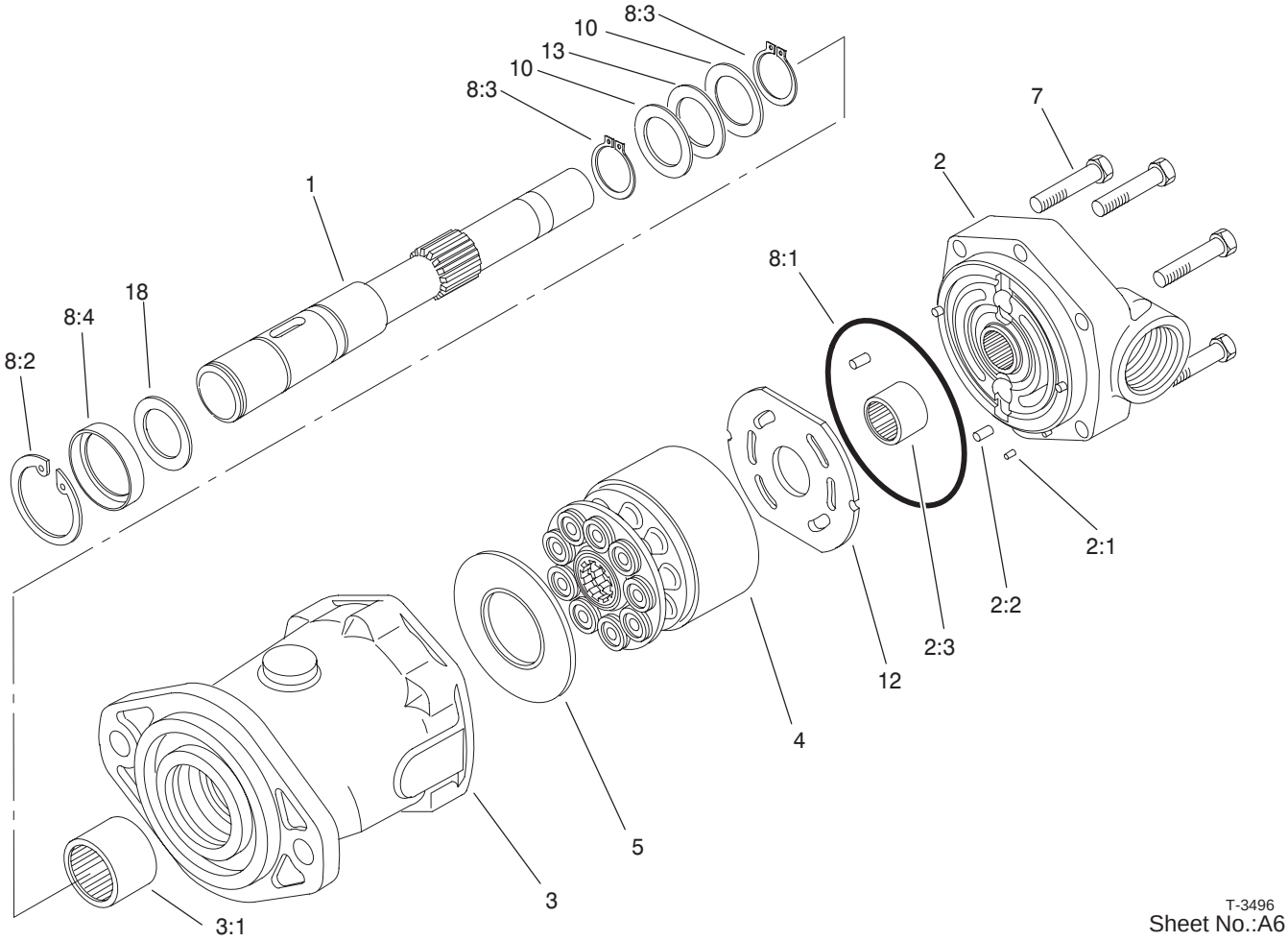



T-3759
Sheet No.:A5

# Right Hand Brake Assembly No. 100-3069

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 2 | 93-7977 | 1 | Seal |
| 3 | 93-7978 | 1 | Rod-Pull |
| 4 | 93-7983 | 2 | Pin-Clevis |
| 5 | 93-7980 | 2 | Link |
| 6 | 93-7979 | 2 | Pin-Hitch |
| 7 | 93-7986 | 4 | Disc-Stationary |
| 8 | 104-4278 | 3 | Disc-Rotating |
| 9 | 93-7976 | 1 | Ring-Retaining |
| 10 | 93-7984 | 1 | Gasket |
| 11 | 104-4280 | 1 | Actuator-Rotating |
| 12 | 93-7987 | 3 | Spring-Extension |
| 13 | 93-7985 | 3 | Ball |
| 14 | 353-990 | 2 | Plug |
| 14:1 | 237-78 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|



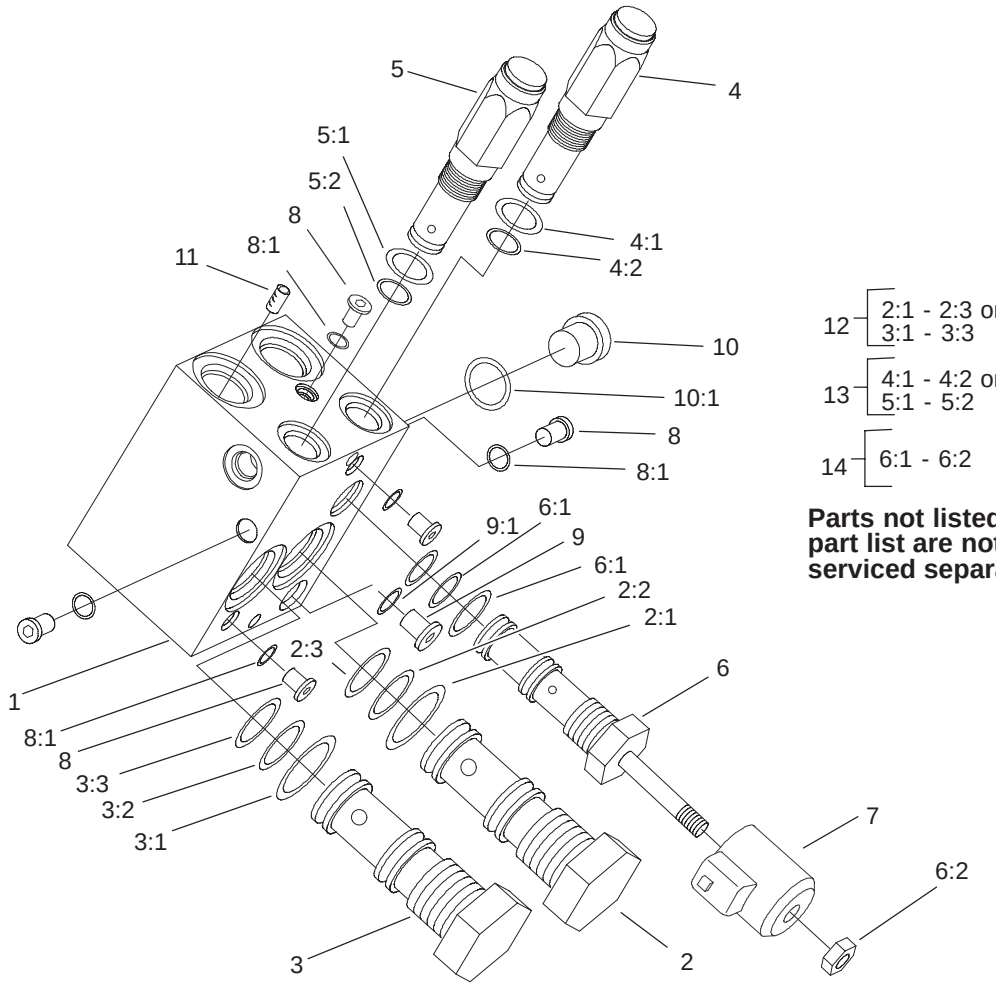

T-3496
Sheet No.:A6

# Piston Motor Assembly No. 100-3052

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 94-3004 | 1 | Shaft-Drive, Splined |
| 2 | 105-2851 | 1 | Backplate ASM |
| ☆2:1 | | 3 | Pin-Dowel |
| ☆2:2 | | 1 | Pin-Dowel |
| ☆2:3 | | 1 | Bearing-Needle |
| 3 | 105-2852 | 1 | Housing ASM |
| ☆3:1 | | 1 | Bearing-Needle |
| 4 | 76-6910 | 1 | Rotating Kit |
| 5 | 76-6970 | 1 | Insert-Plate, Cam |
| 7 | 94-3002 | 6 | Capscrew |
| 8 | 106-6876 | 1 | Seal Kit |
| ☆8:1 | | 1 | O-Ring |
| 8:2 | 93-6360 | 1 | Retaining Ring |
| 8:3 | 76-7000 | 2 | Ring-Retaining |
| 8:4 | 105-3331 | 1 | Seal-Shaft |
| 10 | 60-6160 | 2 | Race |
| 12 | 94-3003 | 1 | Plate-V alve |
| 13 | 76-6960 | 1 | Bearing-Thrust |
| 18 | 60-6240 | 1 | Washer |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately




**Parts not listed in part list are not serviced separately**

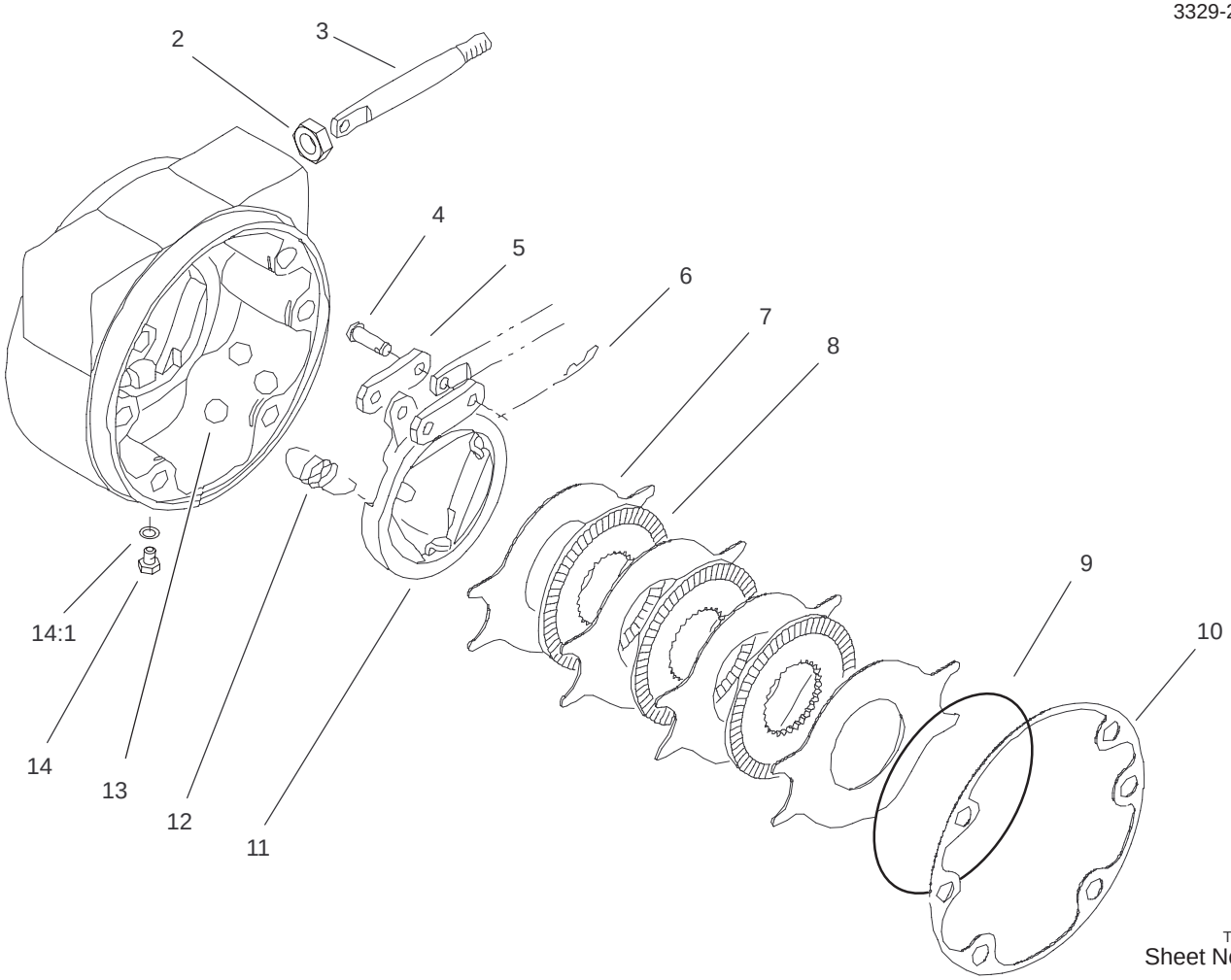
T-3768
Sheet No.:A7

# Power Take Off Manifold Assembly No. 106-2039

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| ☆1 | | 1 | Body |
| 2 | 104-4297 | 1 | Cartridge-Spool Logic |
| 3 | 104-4298 | 1 | Cartridge-Spool Logic |
| 4 | 95-5635 | 1 | Valve-Relief |
| 5 | 104-4273 | 1 | Cartridge-Relief, Pilot |
| 6 | 95-5638 | 1 | Valve-Solenoid |
| 6:1 | 95-5917 | 1 | Seal Kit |
| 6:2 | 3220-4 | 1 | Nut-Jam |
| 7 | 105-7340 | 1 | Coil ASM |
| 8 | 353-991 | 5 | Plug-Hex, Hollow |
| 8:1 | 237-156 | 1 | O-Ring |
| 9 | 353-990 | 1 | Plug |
| 9:1 | 237-78 | 1 | O-Ring |
| 10 | 353-988 | 1 | Plug-Hex, Hollow |
| 10:1 | 237-79 | 1 | O-Ring |
| 11 | 3246-17 | 1 | Setscrew-HSH |
| 12 | 95-5644 | 2 | Seal Kit |
| 13 | 95-5645 | 2 | Seal Kit |
| 14 | 95-5643 | 1 | Seal Kit |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately

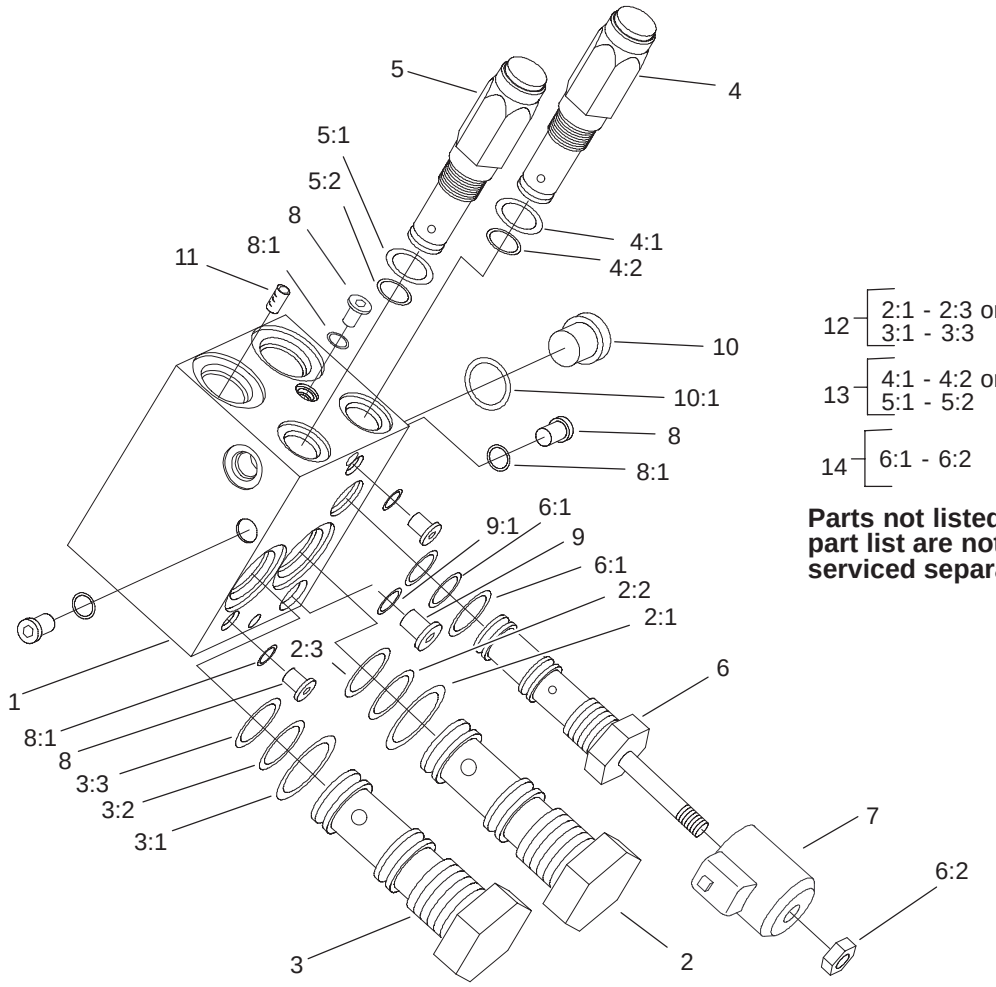



T-3760
Sheet No.:A8

# Left Hand Brake Assembly No. 100-3070

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 2 | 93-7977 | 1 | Seal |
| 3 | 93-7978 | 1 | Rod-Pull |
| 4 | 93-7983 | 2 | Pin-Clevis |
| 5 | 93-7980 | 2 | Link |
| 6 | 93-7979 | 2 | Pin-Hitch |
| 7 | 93-7986 | 4 | Disc-Stationary |
| 8 | 104-4278 | 3 | Disc-Rotating |
| 9 | 93-7976 | 1 | Ring-Retaining |
| 10 | 93-7984 | 1 | Gasket |
| 11 | 104-4279 | 1 | Actuator-Rotating |
| 12 | 93-7987 | 3 | Spring-Extension |
| 13 | 93-7985 | 3 | Ball |
| 14 | 353-990 | 2 | Plug |
| 14:1 | 237-78 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




**Parts not listed in part list are not serviced separately**

T-3768

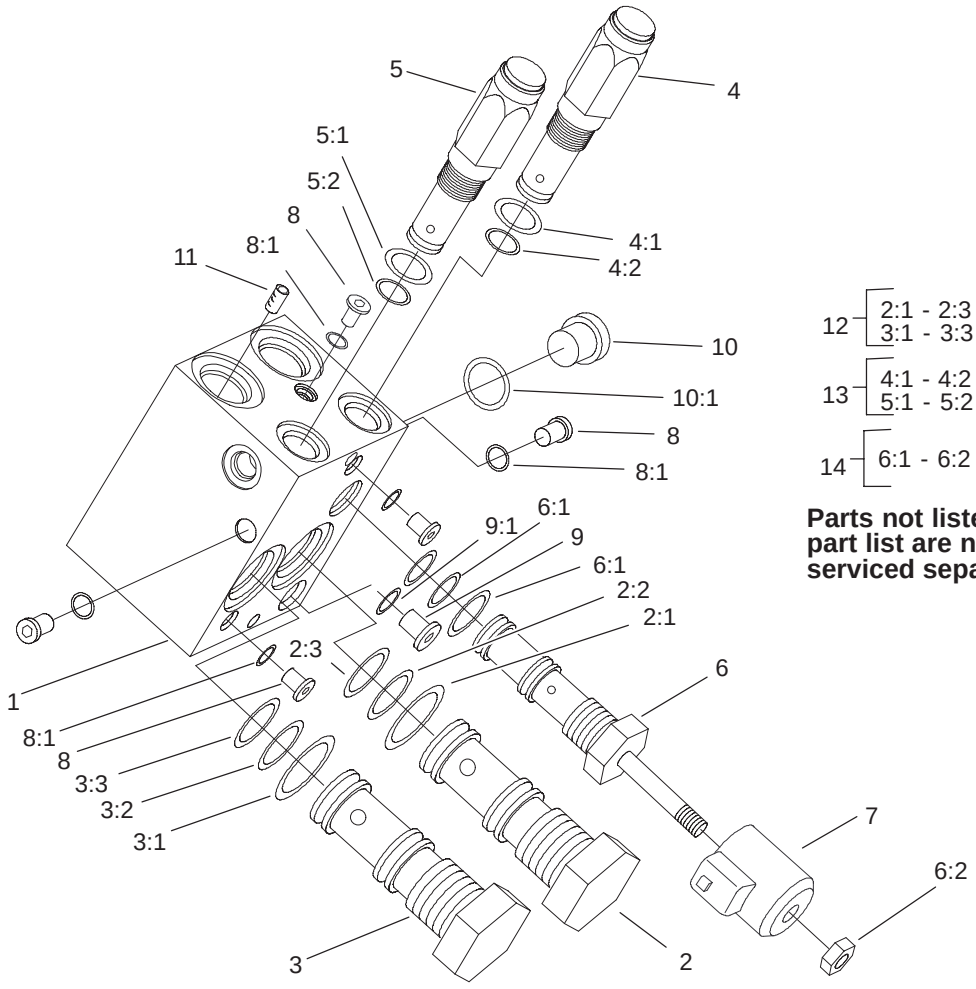
Sheet No.:A9

# Power Take Off Manifold Assembly No. 100-3055

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| ☆1 | | 1 | Body |
| 2 | 104-4297 | 1 | Cartridge-Spool Logic |
| 3 | 104-4298 | 1 | Cartridge-Spool Logic |
| 4 | 95-5635 | 1 | Valve-Relief |
| 5 | 104-4273 | 1 | Cartridge-Relief, Pilot |
| 6 | 95-5638 | 1 | Valve-Solenoid |
| 6:1 | 95-5917 | 1 | Seal Kit |
| 6:2 | 3220-4 | 1 | Nut-Jam |
| 7 | 105-7340 | 1 | Coil ASM |
| 8 | 353-991 | 5 | Plug-Hex, Hollow |
| 8:1 | 237-156 | 1 | O-Ring |
| 9 | 353-990 | 1 | Plug |
| 9:1 | 237-78 | 1 | O-Ring |
| 10 | 353-988 | 1 | Plug-Hex, Hollow |
| 10:1 | 237-79 | 1 | O-Ring |
| 11 | 104-4276 | 1 | Plug-Orifice |
| 12 | 95-5644 | 2 | Seal Kit |
| 13 | 95-5645 | 2 | Seal Kit |
| 14 | 95-5643 | 1 | Seal Kit |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately




**Parts not listed in part list are not serviced separately**

T-3831

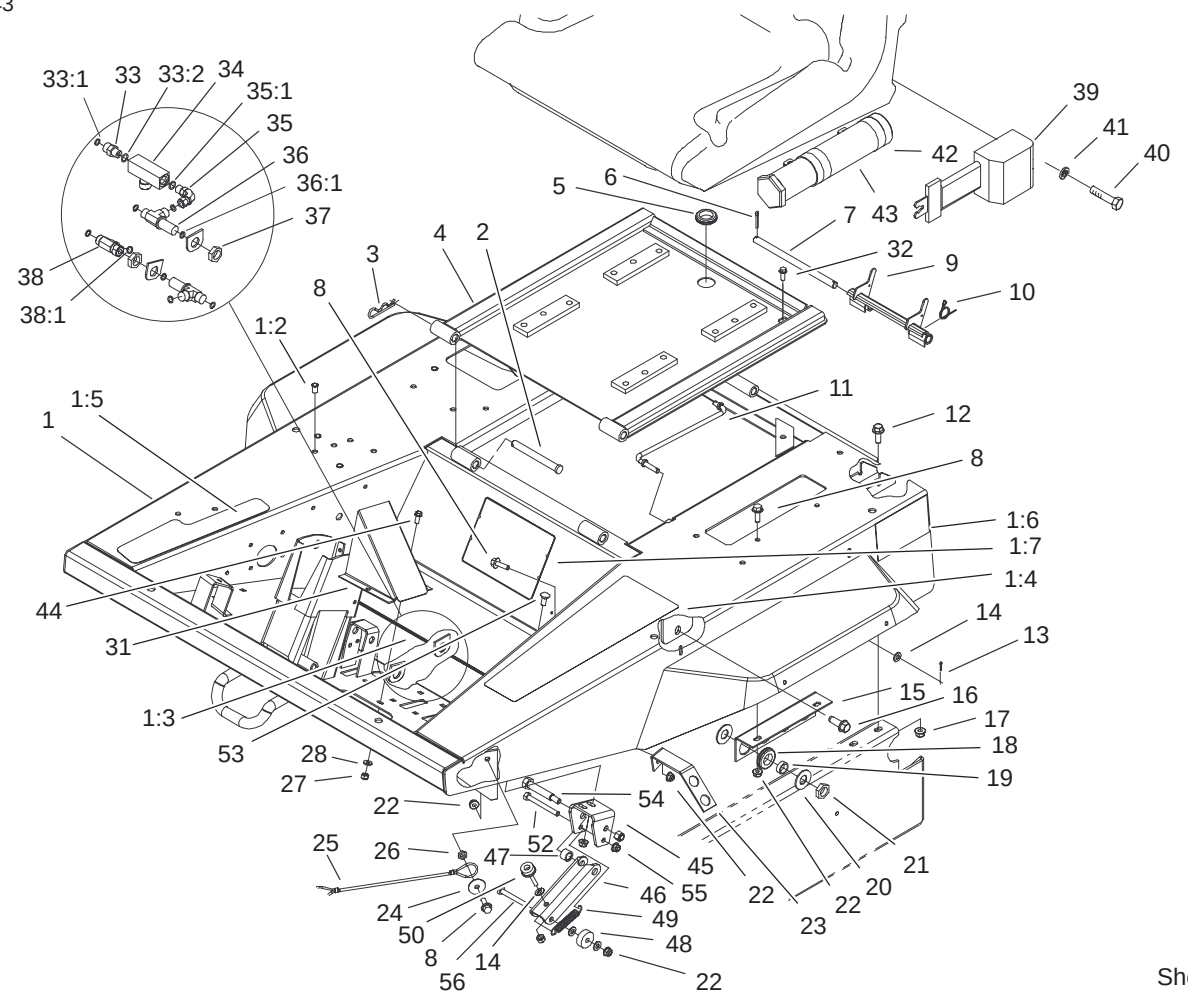
Sheet No.:B1

# Power Take Off Manifold Assembly No. 105-4562

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| ☆1 | | 1 | Body |
| 2 | 104-4297 | 1 | Cartridge-Spool Logic |
| 3 | 104-4298 | 1 | Cartridge-Spool Logic |
| 4 | 105-4564 | 1 | Valve-Relief |
| 5 | 104-4273 | 1 | Cartridge-Relief, Pilot |
| 6 | 95-5638 | 1 | Valve-Solenoid |
| 6:1 | 95-5917 | 1 | Seal Kit |
| 6:2 | 3220-4 | 1 | Nut-Jam |
| 7 | 105-7340 | 1 | Coil ASM |
| 8 | 353-991 | 5 | Plug-Hex, Hollow |
| 8:1 | 237-156 | 1 | O-Ring |
| 9 | 353-990 | 1 | Plug |
| 9:1 | 237-78 | 1 | O-Ring |
| 10 | 353-988 | 1 | Plug-Hex, Hollow |
| 10:1 | 237-79 | 1 | O-Ring |
| 11 | 104-4276 | 1 | Plug-Orifice |
| 12 | 95-5644 | 2 | Seal Kit |
| 13 | 95-5645 | 2 | Seal Kit |
| 14 | 95-5643 | 1 | Seal Kit |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately

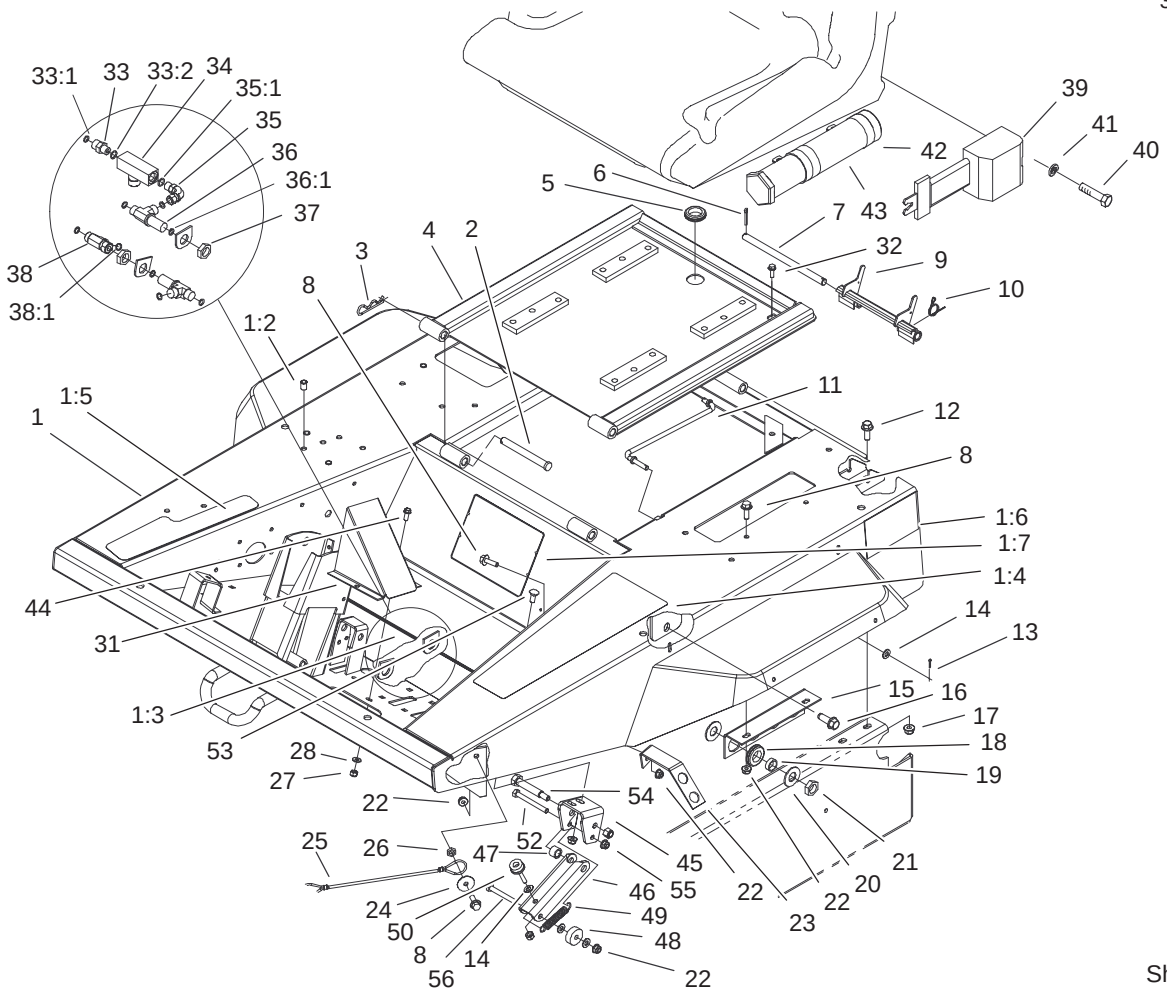



Sheet No.:5

# Platform and Seat Base Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100-3033 | 1 | Platform ASM |
| 1:2 | 32148-6 | 14 | Insert-Nut |
| 1:3 | 93-5349 | 2 | Abrasive-Floor |
| 1:4 | 93-5507 | 1 | Abrasive-Platform |
| 1:5 | 104-3599 | 1 | Decal-Pedal, Traction |
| 1:6 | 94-8099 | 2 | Decal-4wd |
| 1:7 | 106-6764 | 1 | Decal-Operating Instruction, Ce |
| 2 | 93-5343 | 2 | Pin-Clevis |
| 3 | 3290-355 | 2 | Pin-Hair |
| 4 | 100-3060-03 | 1 | Seat Plate ASM |
| 5 | 240-5 | 1 | Grommet |
| 6 | 3272-11 | 2 | Pin-Cotter |
| 7 | 93-5366 | 1 | Shaft-Latch |
| 8 | 3234-29 | 4 | Screw-HHF |
| 9 | 93-5363 | 1 | Latch ASM |
| 10 | 93-5367 | 1 | Spring-Torsion |
| 11 | 93-5338 | 1 | Rod-Prop |
| 12 | 3234-42 | 2 | Screw-HHF |
| 13 | 3272-5 | 2 | Pin-Cotter |
| 14 | 3256-23 | 5 | Washer-Flat |
| 15 | 100-3149-03 | 1 | Bracket-Bulkhead |
| 16 | 32144-67 | 2 | Screw |
| 17 | 104-8301 | 2 | Nut-Flange, NI |
| 18 | 240-4 | 4 | Grommet-Rubber |
| 19 | 69-8970 | 4 | Spacer |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 20 | 69-8940 | 8 | Washer |
| 21 | 340-70 | 4 | Nut-Lock |
| 22 | 104-8300 | 9 | Nut-Flange, NI |
| 23 | 100-5500-03 | 1 | Support |
| 24 | 3256-57 | 1 | Washer-Flat |
| 25 | 93-9595 | 1 | Lanyard |
| 26 | 3218-3 | 1 | Nut-Jam |
| 27 | 3296-42 | 2 | Nut-Lock, NI |
| 28 | 3256-22 | 2 | Washer-Flat |
| 31 | 100-3045-01 | 1 | Cover-Tubes |
| 32 | 3234-4 | 1 | Screw-HHF |
| 33 | 340-2 | 1 | Fitting-Straight, HYD |
| 33:1 | 237-22 | 1 | O-Ring |
| 33:2 | 237-42 | 1 | O-Ring |
| 34 | 98-9742 | 1 | Valve-Control, Flow |
| 35 | 340-110 | 1 | Fitting-90 °, Swivel |
| 35:1 | 237-42 | 1 | O-Ring |
| 36 | 340-68 | 2 | Fitting-Tee, Bulkhead |
| 36:1 | 237-22 | 3 | O-Ring |
| 37 | 340-70 | 2 | Nut-Lock |
| 38 | 340-115 | 1 | Fitting-Tee |
| 38:1 | 237-22 | 2 | O-Ring |
| 39 | 100-4928 | 1 | Belt-Seat |
| 40 | 3212-4 | 2 | Screw-HH |
| 41 | 3253-6 | 2 | Washer-Lock |

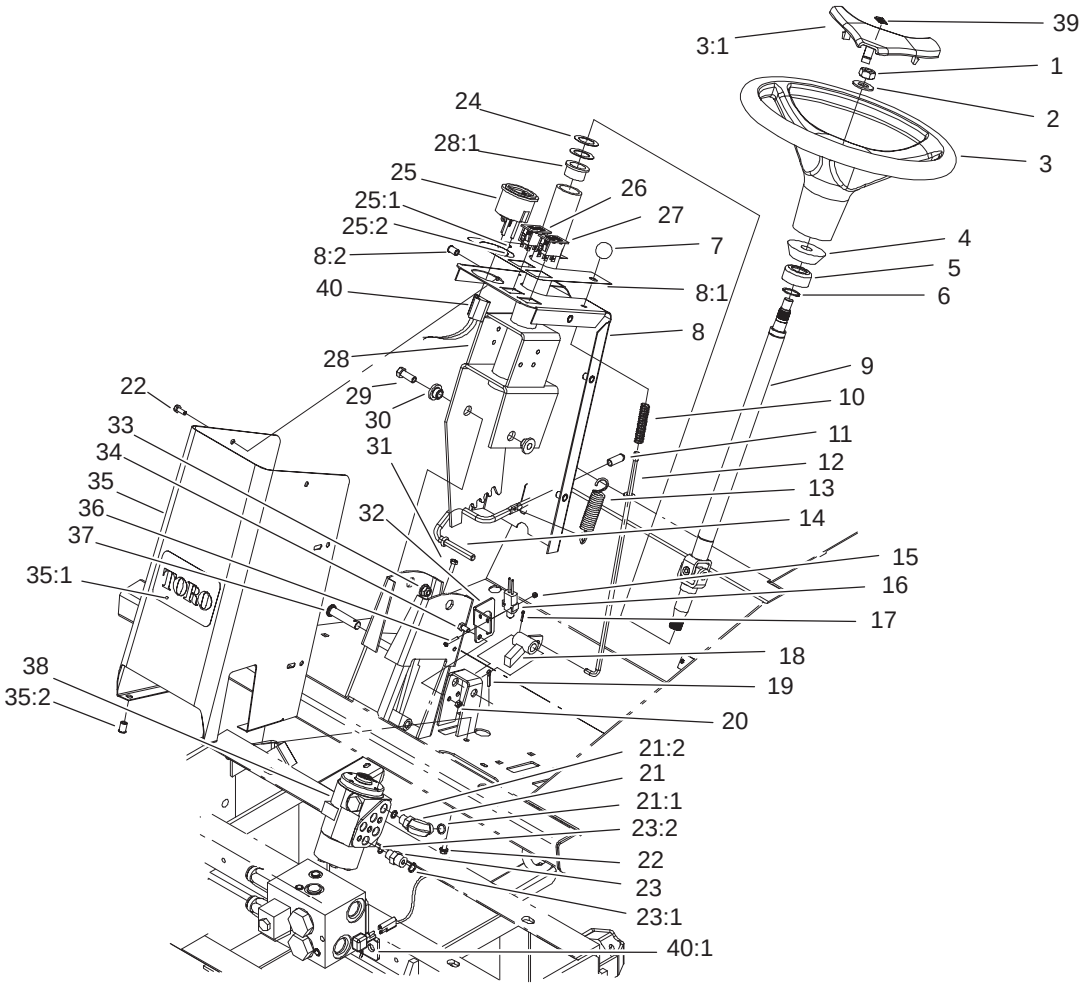



Sheet No.:5

# Platform and Seat Base Assembly (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 42 | 2412-133 | 2 | R-Clamp |
| 43 | 74-0720 | 1 | Tube-Manual |
| 44 | 3234-33 | 2 | Screw-HHF |
| 45 | 106-2031-01 | 1 | Support-Pivot |
| 46 | 106-2034-01 | 1 | Arm-Latch |
| 47 | 47-4420 | 1 | Spacer-Sleeve, Adj. |
| 48 | 92-2327 | 1 | Spacer-Hose |
| 49 | 92-6682 | 1 | Spring-Extension |
| 50 | 32141-36 | 1 | Screw-Adjustment, Level |
| 52 | 322-14 | 1 | Screw-HH |
| 53 | 3230-20 | 2 | Screw-CARR |
| 54 | 71-3340 | 1 | Bolt-Wheel |
| 55 | 3296-6 | 1 | Nut-Lock, NI |
| 56 | 322-12 | 1 | Screw-HH |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

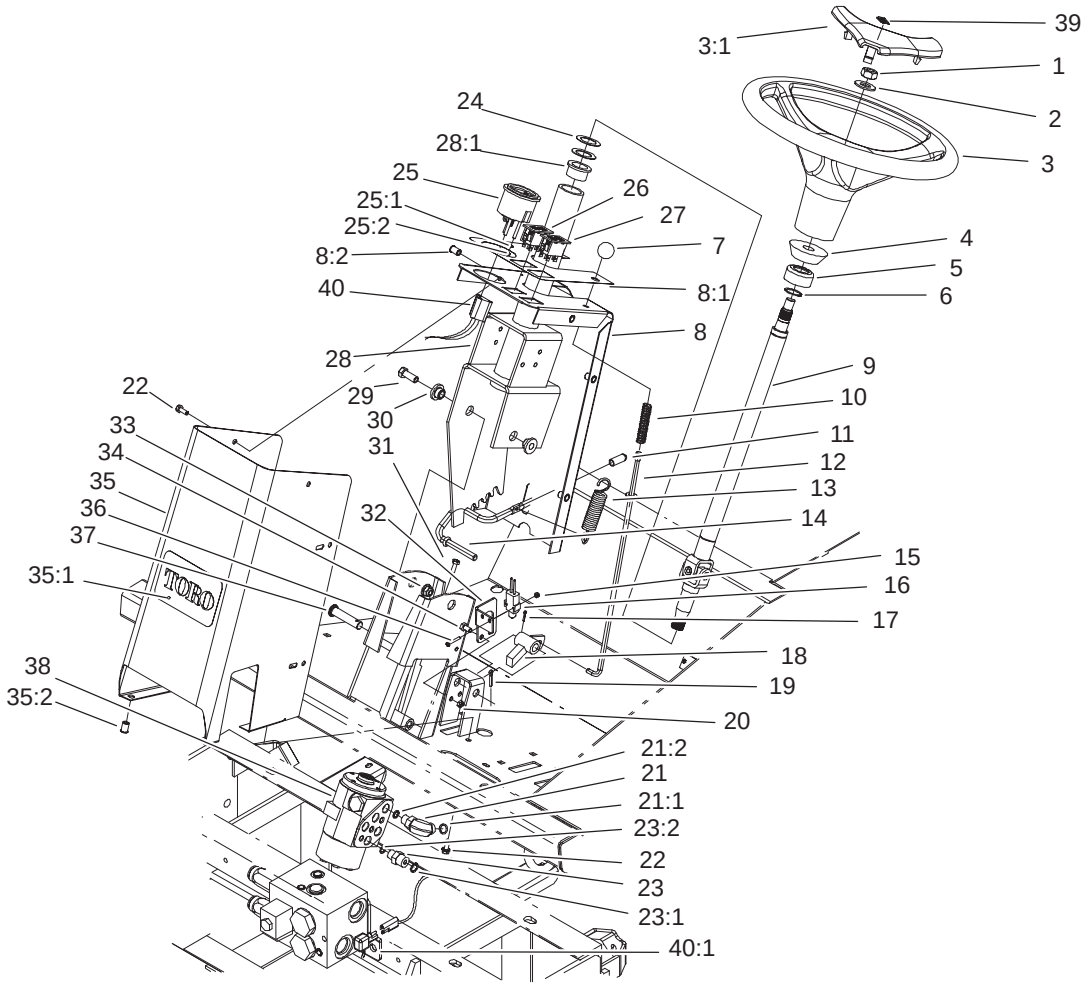



Sheet No.:6

# Steering Tower Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 93-5590 | 1 | Nut-Hex |
| 2 | 3256-27 | 1 | Washer-Flat |
| 3 | 98-1471 | 1 | Wheel-Steering |
| 3:1 | 98-1468 | 1 | Cover-Wheel, Steering |
| 4 | 93-5429 | 1 | Collar-Foam |
| 5 | 93-5439 | 1 | Seal-Steering |
| 6 | 32151-29 | 2 | Ring-Retaining |
| 7 | 93-5312 | 1 | Knob |
| 8 | 104-2274 | 1 | Tower Cover ASM |
| 8:1 | 104-2277 | 1 | Decal-Tower |
| 8:2 | 32148-6 | 6 | Insert-Nut |
| 9 | 93-5428 | 1 | Steering Shaft ASM |
| 10 | 71-8310 | 1 | Spring-Compression |
| 11 | 93-5446 | 1 | Cap-Vinyl |
| 12 | 104-8308 | 1 | Rod ASM |
| 13 | 93-5985 | 1 | Spring-Extension |
| 14 | 93-5989 | 1 | Rod-Tilt |
| 15 | 3296-9 | 2 | Nut-Lock, NI |
| 16 | 99-3410 | 1 | Switch |
| 17 | 3272-5 | 1 | Pin-Cotter |
| 18 | 93-5276-03 | 1 | Brake Pawl ASM |
| 19 | 3272-10 | 1 | Pin-Cotter |
| 20 | 3296-42 | 2 | Nut-Lock, NI |
| 21 | 340-77 | 1 | Fitting-HYD, 90° |
| 21:1 | 237-22 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 21:2 | 237-42 | 1 | O-Ring |
| 22 | 3234-33 | 10 | Screw-HHF |
| 23 | 340-2 | 4 | Fitting-Straight, HYD |
| 23:1 | 237-22 | 1 | O-Ring |
| 23:2 | 237-42 | 1 | O-Ring |
| 24 | 256-260 | 4 | Washer-Thrust |
| 25 | 98-9308 | 1 | Gauge-Temperature |
| 25:1 | 3254-1 | 3 | Washer-Lock, Int |
| 25:2 | 3217-27 | 3 | Nut-Hex |
| 25:3 | 105-9265 | 1 | Bulb And Lamp ASM |
| 26 | 100-8070 | 1 | Lamp-Warning |
| 27 | 100-8071 | 1 | Lamp-Warning |
| 28 | 104-8332 | 1 | Steering Column ASM |
| 28:1 | 256-132 | 2 | Bushing-Flange |
| 29 | 323-6 | 2 | Screw-HH |
| 30 | 93-5988 | 2 | Hub-Pivot |
| 31 | 33103-016 | 4 | Screw-HHF |
| 32 | 104-0128 | 1 | Bracket-Switch |
| 33 | 104-8301 | 2 | Nut-Flange, NI |
| 34 | 321-3 | 2 | Screw-HH |
| 35 | 100-3038 | 1 | Steering Tower ASM |
| 35:1 | 67-1300 | 1 | Decal-Toro |
| 35:2 | 32148-6 | 4 | Insert-Nut |
| 36 | 3250-35 | 2 | Screw-PPH |
| 37 | 283-5 | 1 | Pin-Clevis |
| 38 | 104-2213 | 1 | Valve-Steering |

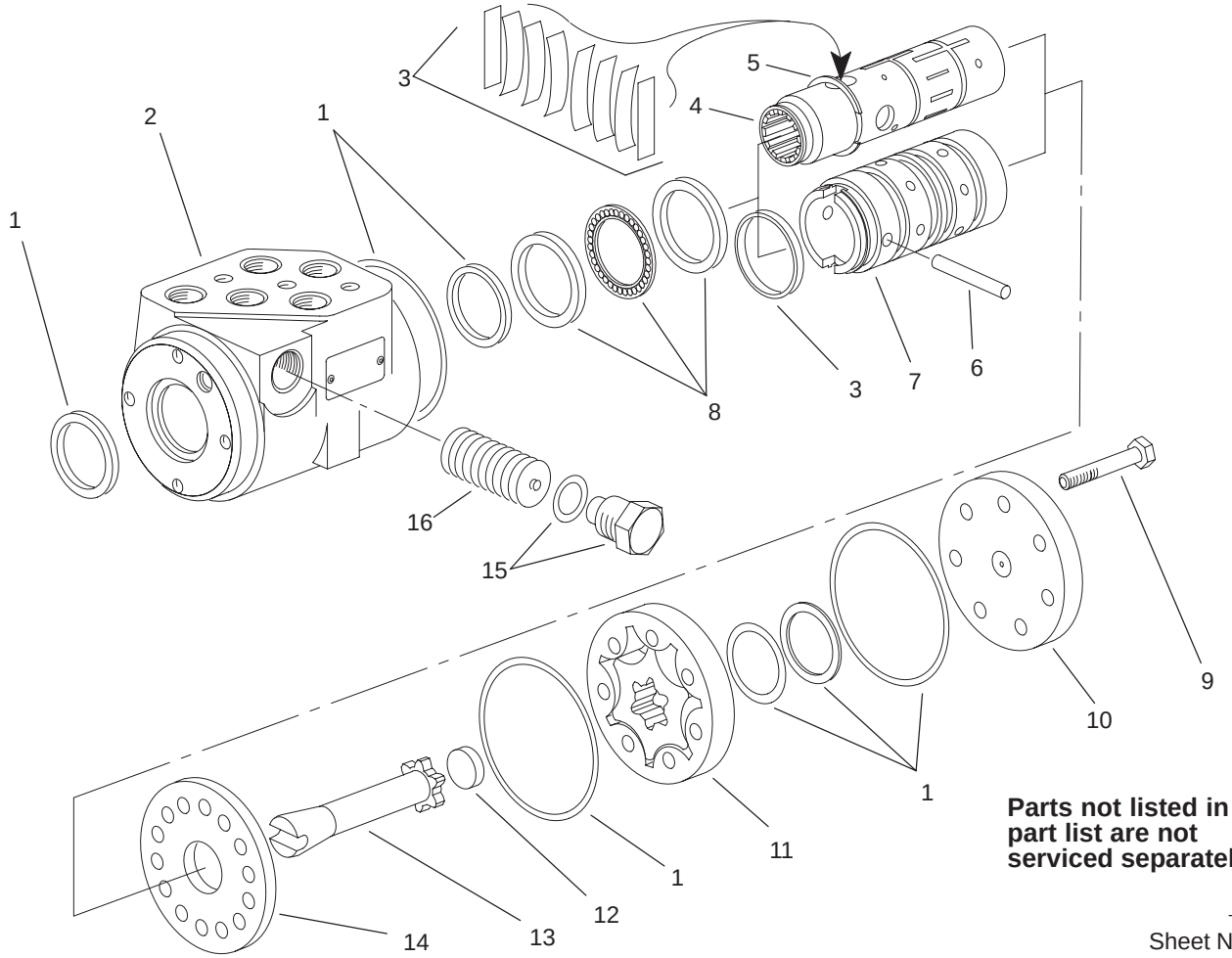



Sheet No.:6

# Steering Tower Assembly (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 39 | 98-1459 | 1 | Decal-Toro |
| 40 | 106-6763 | 1 | Harness-Wire, Front |
| 40:1 | 100-4918 | 1 | Diode |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

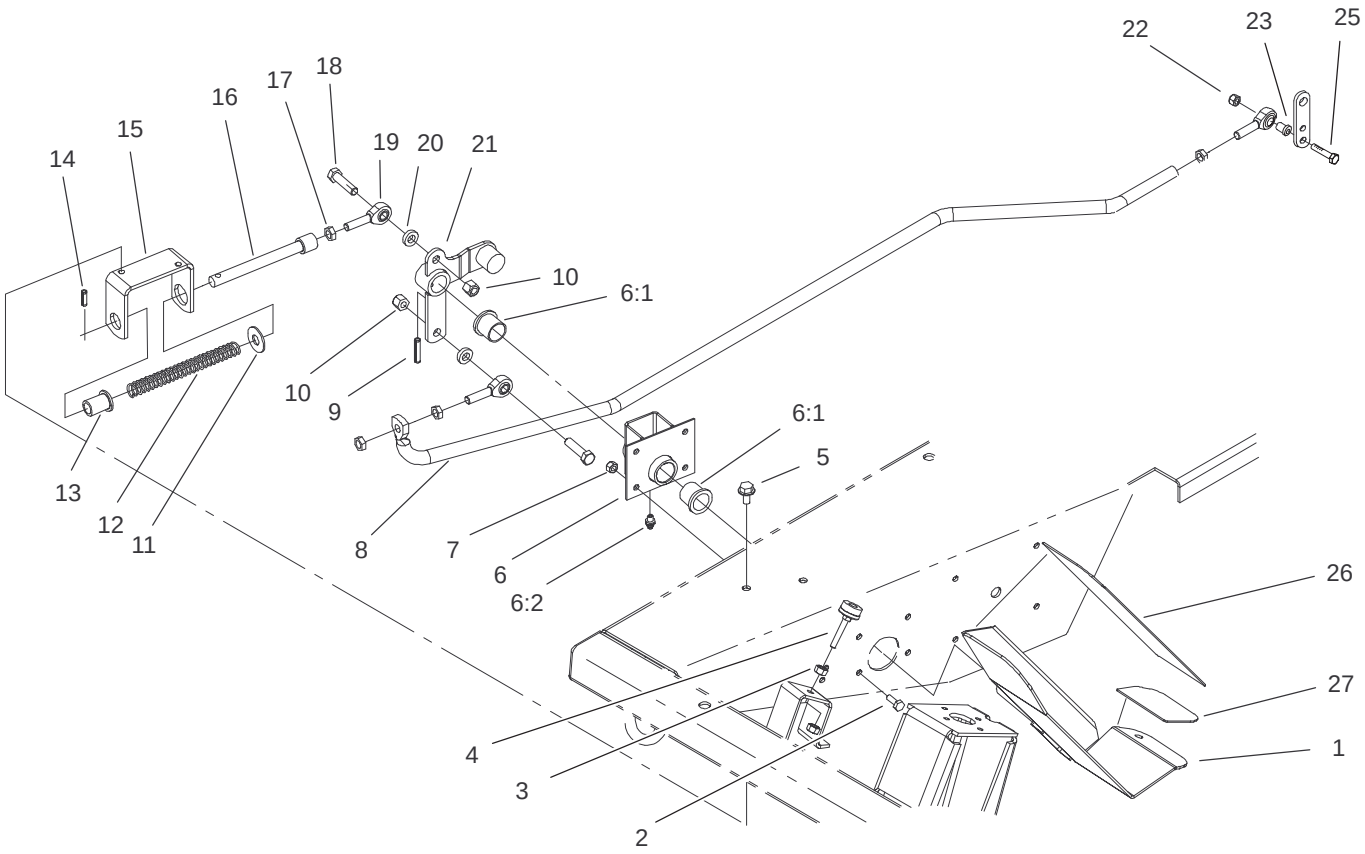



# Steering Valve Assembly No. 104-2213

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 94-4099 | 1 | Seal Kit |
| ☆2 | | 1 | Housing |
| 3 | 94-4095 | 1 | Centering Spring Kit |
| ☆4 | | 1 | Spool |
| 5 | 94-4098 | 1 | Ring-Retaining |
| 6 | 94-4094 | 1 | Pin |
| ☆7 | | 1 | Sleeve |
| 8 | 94-4096 | 1 | Bearing Kit |
| 9 | 94-4088 | 7 | Screw-Cap |
| 10 | 94-4089 | 1 | Cap-End |
| 11 | 94-4090 | 1 | Gerotor |
| 12 | 94-4091 | 1 | Spacer |
| 13 | 94-4093 | 1 | Drive |
| 14 | 94-4092 | 1 | Plate-W ear |
| 15 | 99-551 1 | 1 | Plug ASM |
| 16 | 99-5500 | 1 | Valve-Relief |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately

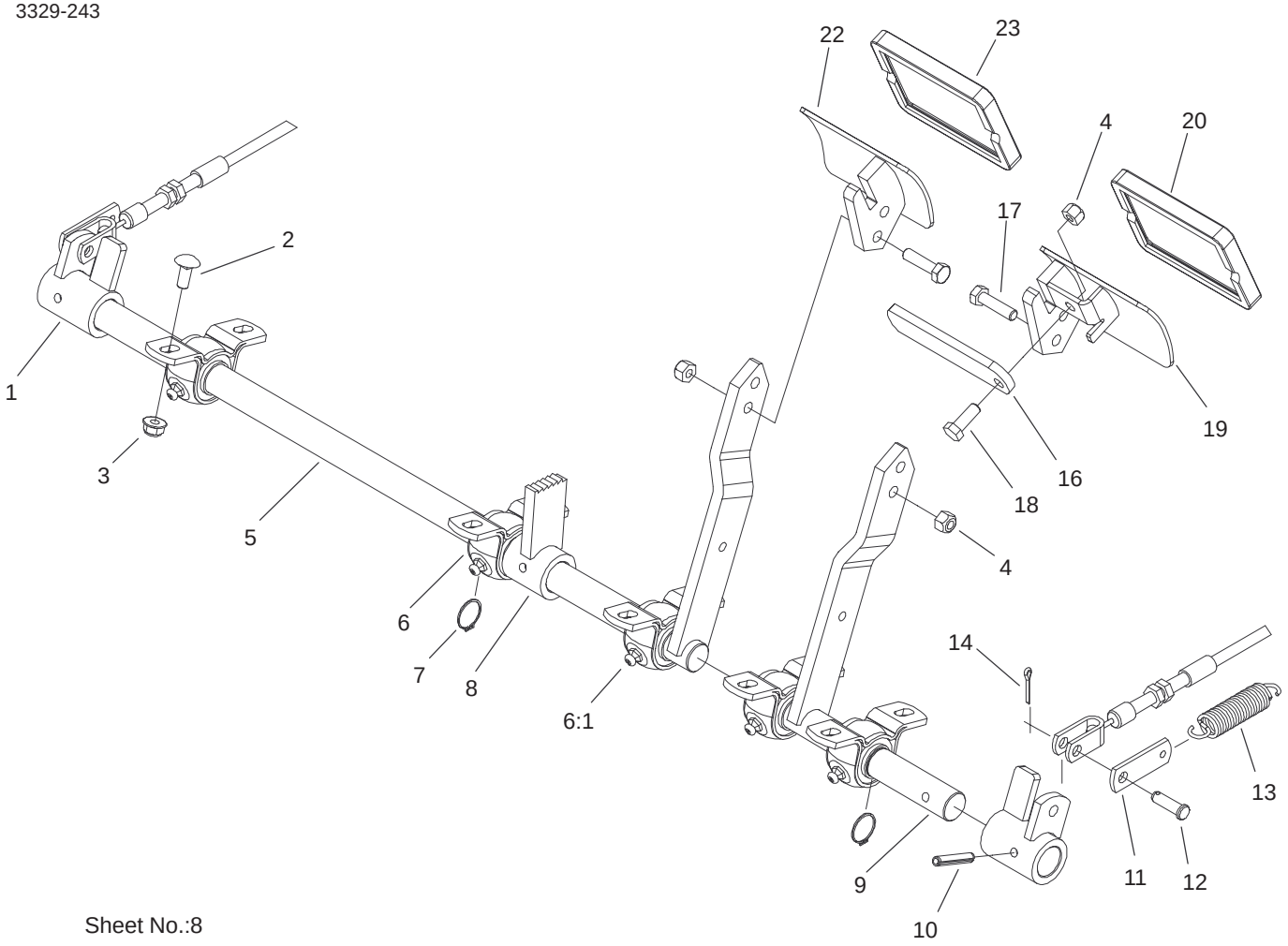



Sheet No.:7

# Traction Pedal and Linkage Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 93-5133-01 | 1 | Traction Pedal ASM |
| 2 | 321-4 | 4 | Screw-HH |
| 3 | 3217-6 | 2 | Nut-Hex |
| 4 | 32141-36 | 1 | Screw-Adjustment, Level |
| 5 | 32144-14 | 2 | Screw-HWH |
| 6 | 104-3565 | 1 | Pedal Bracket ASM |
| 6:1 | 256-10 | 2 | Bushing-Flange |
| 6:2 | 302-5 | 1 | Fitting-Grease |
| 7 | 3296-42 | 4 | Nut-Lock, NI |
| 8 | 100-3136-03 | 1 | Rod-T raction |
| 9 | 32121-9 | 1 | Pin-Spring |
| 10 | 3296-39 | 2 | Nut-Lock, NI |
| 11 | 3256-5 | 1 | Washer-Flat |
| 12 | 84-9100 | 1 | Spring |
| 13 | 92-7610 | 1 | Retainer-Spring |
| 14 | 32121-11 | 1 | Pin-Roll |
| 15 | 100-3137-03 | 1 | Bracket-Spring |
| 16 | 92-7609 | 1 | Shaft-Spring |
| 17 | 3220-3 | 4 | Nut-Jam |
| 18 | 323-8 | 2 | Screw-HH |
| 19 | 2411-36 | 3 | Bearing-End, Rod |
| 20 | 80-7730 | 2 | Spacer |
| 21 | 100-3138 | 1 | Lever-T raction |
| 22 | 3296-42 | 1 | Nut-Lock, NI |
| 23 | 104-7517 | 1 | Spacer |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 25 | 321-9 | 1 | Screw-HH |
| 26 | 93-5347 | 1 | Abrasive-Pedal |
| 27 | 93-5368 | 1 | Abrasive-Pedal |

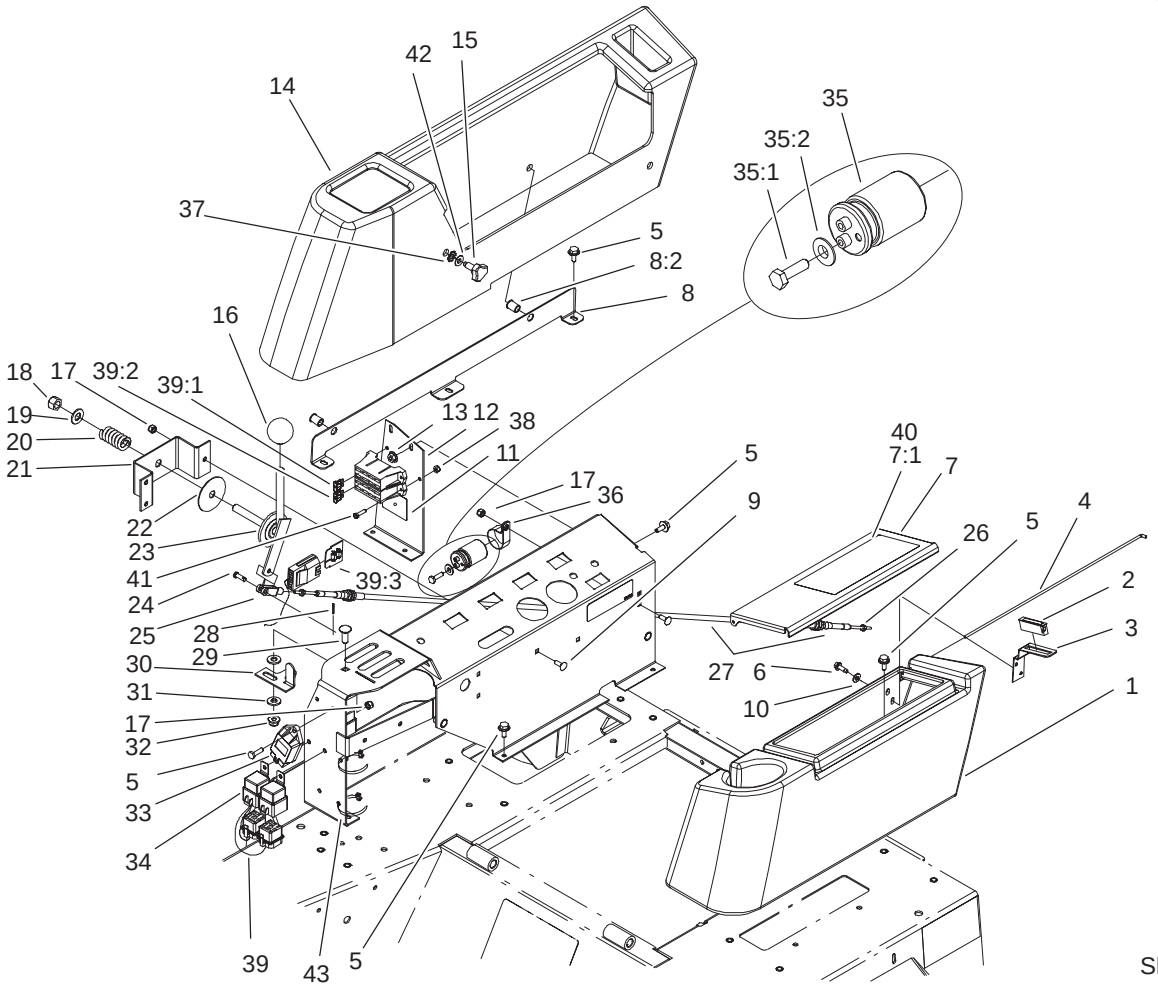



Sheet No.:8

# Brake Pedal and Linkage Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100-3002-03 | 2 | Brake Lever ASM |
| 2 | 3230-20 | 10 | Screw-CARR |
| 3 | 104-8300 | 10 | Nut-Flange, NI |
| 4 | 3296-29 | 5 | Nut-Lock, NI |
| 5 | 100-3000-03 | 1 | RH Brake Arm ASM |
| 6 | 93-4849 | 5 | Bearing-Block, Pillow |
| 6:1 | 302-5 | 1 | Fitting-Grease |
| 7 | 32151-83 | 3 | Ring-Snap |
| 8 | 93-5475-03 | 1 | Brake Latch ASM |
| 9 | 100-2997-03 | 1 | LH Brake Arm ASM |
| 10 | 32121-15 | 3 | Pin-Roll |
| 11 | 100-5540 | 2 | Strap-Brake |
| 12 | 283-61 | 2 | Pin-Yoke |
| 13 | 93-5262 | 2 | Spring-Extension |
| 14 | 3272-6 | 2 | Pin-Cotter |
| 16 | 93-5568 | 1 | Arm-Lock |
| 17 | 322-6 | 4 | Screw-HH |
| 18 | 322-4 | 1 | Screw-HH |
| 19 | 105-4553-03 | 1 | LH Pedal ASM |
| 20 | 27-7570 | 1 | Pad-Turn, Left |
| 22 | 105-4554-03 | 1 | RH Pedal ASM |
| 23 | 27-7580 | 1 | Pad-Turn, Right |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

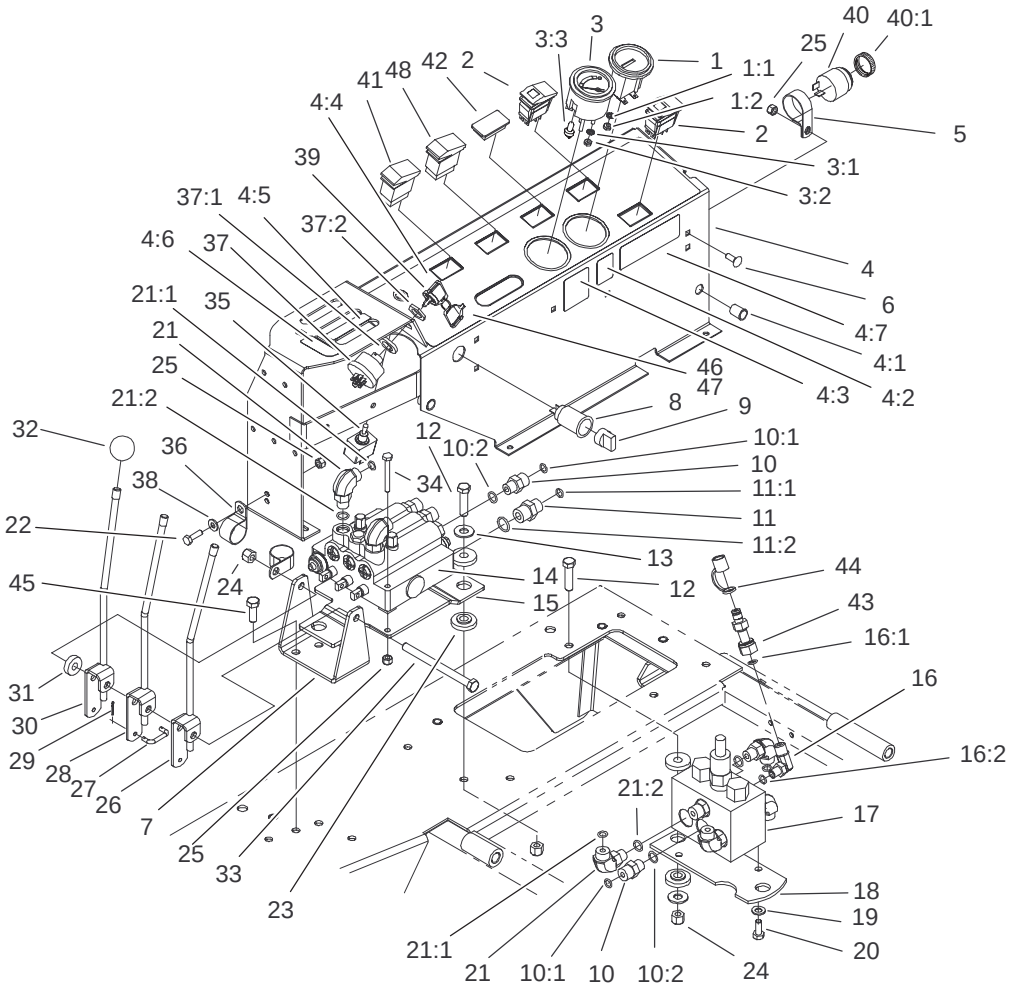



Sheet No.:9

# Control Console and Tool Box Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-7515 | 1 | Housing-Box, Tool |
| 2 | 58-4250 | 1 | Catch-Magnetic |
| 3 | 104-7545 | 1 | Bracket-Latch |
| 4 | 104-7548 | 1 | Rod-Hinge |
| 5 | 3234-4 | 19 | Screw-HHF |
| 6 | 32104-95 | 2 | Screw-HWH |
| 7 | 104-8321 | 1 | Tool Box Cover ASM |
| 7:1 | 106-6756 | 1 | Decal-W arning |
| 8 | 105-0780 | 1 | Console Support ASM |
| 8:2 | 32148-9 | 2 | Insert-Nut |
| 9 | 3229-1 | 5 | Screw-CARR |
| 10 | 3256-22 | 2 | Washer-Flat |
| 11 | 104-8323 | 1 | Decal-Fuses |
| 12 | 105-0785-03 | 1 | Support-Panel, Control |
| 13 | 32128-33 | 2 | Nut-HF |
| 14 | 104-7514 | 1 | Housing-Console |
| 15 | 95-9648 | 4 | Knob |
| 16 | 233-48 | 1 | Knob |
| 17 | 3296-42 | 9 | Nut-Lock, NI |
| 18 | 3296-23 | 1 | Nut-Lock, NI |
| 19 | 3256-26 | 1 | Washer-Flat |
| 20 | 3-8596 | 1 | Spring-Compression |
| 21 | 104-7539-03 | 1 | Bracket-Pivot |
| 22 | 3-2858 | 1 | Disc-Friction |
| 23 | 104-7538 | 1 | Throttle Lever ASM |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 24 | 283-67 | 2 | Pin-Clevis |
| 25 | 282-28 | 2 | Clevis-Adjustable |
| 26 | 3219-14 | 2 | Nut-Hex |
| 27 | 104-7547 | 1 | Cable-Throttle |
| 28 | 3272-1 | 2 | Pin-Cotter |
| 29 | 3231-22 | 1 | Screw-CARR |
| 30 | 104-7543 | 1 | Stop-Lever , Lift |
| 31 | 66-2920 | 2 | Washer-Friction |
| 32 | 104-8301 | 1 | Nut-Flange, NI |
| 33 | 98-761 1 | 1 | Controller-Glow |
| 34 | 70-1480 | 6 | Relay |
| 35 | 37-2690 | 2 | Capacitor |
| 35:1 | 3252-18 | 2 | Screw |
| 35:2 | 3254-1 | 2 | Washer-Lock, Int |
| 36 | 2412-74 | 2 | R-Clamp |
| 37 | 32151-72 | 4 | Ring-Retaining |
| 38 | 3296-2 | 2 | Nut-Lock |
| 39 | 106-6761 | 1 | Harness-Wire, Gm4000 Console |
| 39:1 | 218-573 | 1 | Fuse-5 Amp |
| 39:2 | 218-578 | 4 | Fuse-10 Amp |
| 39:3 | 92-3188 | 1 | Diode-Board, Circuit |
| 40 | 106-6752 | 1 | Decal-W arning (Ce) |
| 41 | 32105-13 | 2 | Screw-SHH |
| 42 | 3256-3 | 4 | Washer-Flat |
| 43 | 3290-378 | 6 | Tie-Cable |

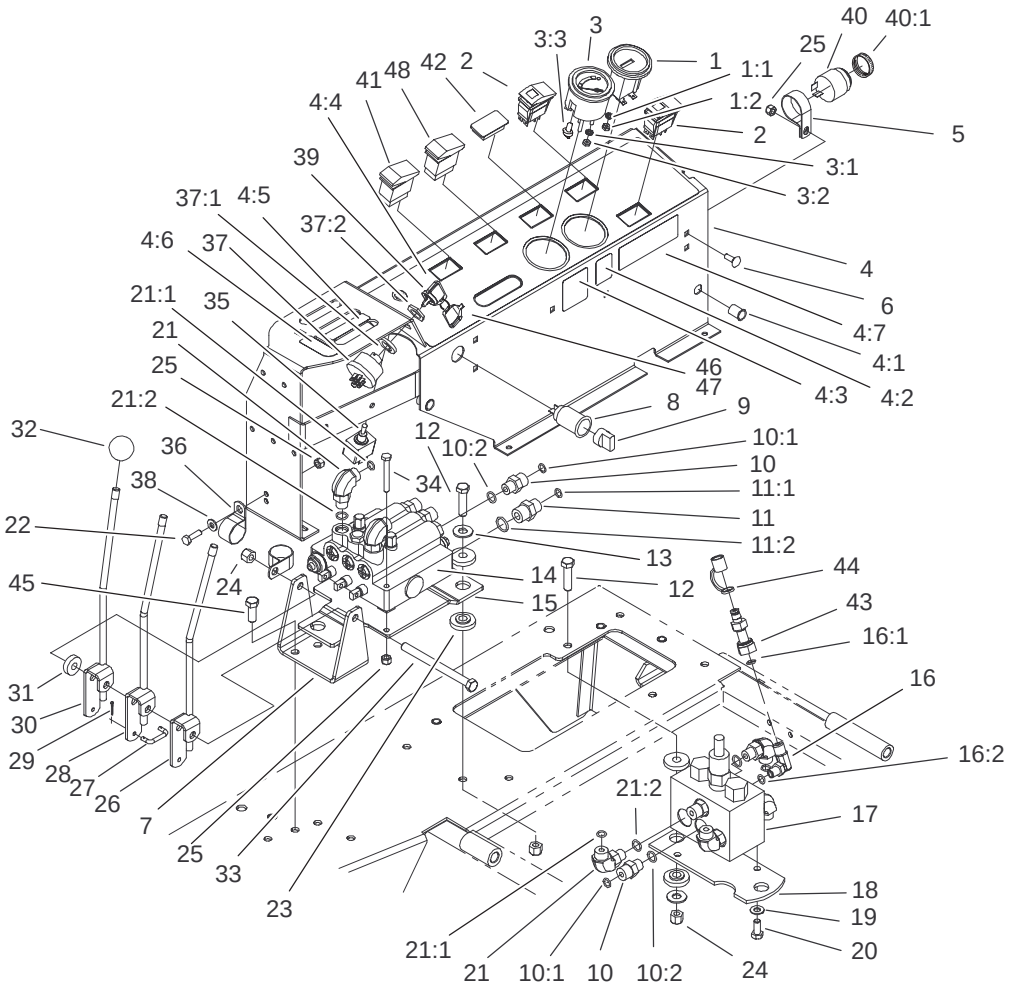



Sheet No.:10

# Control Console Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 66-2950 | 1 | Gauge-Hourmeter |
| 1:1 | 3255-20 | 2 | Washer-Lock |
| 1:2 | 3217-25 | 2 | Nut-Hex |
| 2 | 100-8072 | 2 | Switch |
| 3 | 98-9339 | 1 | Gauge-Fuel |
| 3:1 | 3254-1 | 3 | Washer-Lock, Int |
| 3:2 | 3217-27 | 3 | Nut-Hex |
| 3:3 | 105-9265 | 1 | Bulb And Lamp ASM |
| 4 | 106-6751 | 1 | Control Panel ASM |
| 4:1 | 32148-9 | 2 | Insert-Nut |
| 4:2 | 93-7252 | 1 | Decal-International |
| 4:3 | 105-4674 | 1 | Decal-Noise, Ce |
| 4:4 | 106-2046 | 1 | Decal-Control Panel |
| 4:5 | 104-8324 | 1 | Decal-Lift |
| 4:6 | 104-8325 | 1 | Decal-Lock |
| 4:7 | 104-0131 | 1 | Decal-Ansi |
| 5 | 2412-74 | 1 | R-Clamp |
| 6 | 3229-1 | 1 | Screw-CARR |
| 7 | 105-0788-03 | 1 | Bracket-Pivot |
| 8 | 99-7411 | 1 | Point-Power |
| 9 | 99-7416 | 1 | Cap |
| 10 | 340-2 | 5 | Fitting-Straight, HYD |
| 10:1 | 237-22 | 1 | O-Ring |
| 10:2 | 237-42 | 1 | O-Ring |
| 11 | 340-3 | 1 | Adapter |
| 11:1 | 237-22 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 11:2 | 237-79 | 1 | O-Ring |
| 12 | 323-8 | 5 | Screw-HH |
| 13 | 3256-4 | 5 | Washer-Flat |
| 14 | 105-4563 | 1 | Control Valve ASM |
| 15 | 105-0789-03 | 1 | Bracket-Valve |
| 16 | 340-97 | 1 | Fitting-HYD, 90° |
| 16:1 | 237-22 | 1 | O-Ring |
| 16:2 | 237-78 | 1 | O-Ring |
| 17 | 104-0788 | 1 | Valve ASM |
| 18 | 104-2231-03 | 1 | Plate-Valve |
| 19 | 3256-23 | 2 | Washer-Flat |
| 20 | 322-3 | 2 | Screw-HH |
| 21 | 340-77 | 6 | Fitting-HYD, 90° |
| 21:1 | 237-22 | 1 | O-Ring |
| 21:2 | 237-42 | 1 | O-Ring |
| 22 | 321-5 | 1 | Screw-HH |
| 23 | 240-11 | 10 | Grommet-Mount, Tank |
| 24 | 3296-39 | 8 | Nut-Lock, NI |
| 25 | 3296-42 | 4 | Nut-Lock, NI |
| 26 | 100-3123 | 1 | LH Lever ASM |
| 27 | 69-9140 | 3 | Link-Lever, Valve |
| 28 | 100-3122 | 1 | Center Lever ASM |
| 29 | 3272-1 | 6 | Pin-Cotter |
| 30 | 100-3121 | 1 | RH Lever ASM |
| 31 | 62-6660 | 1 | Spacer |

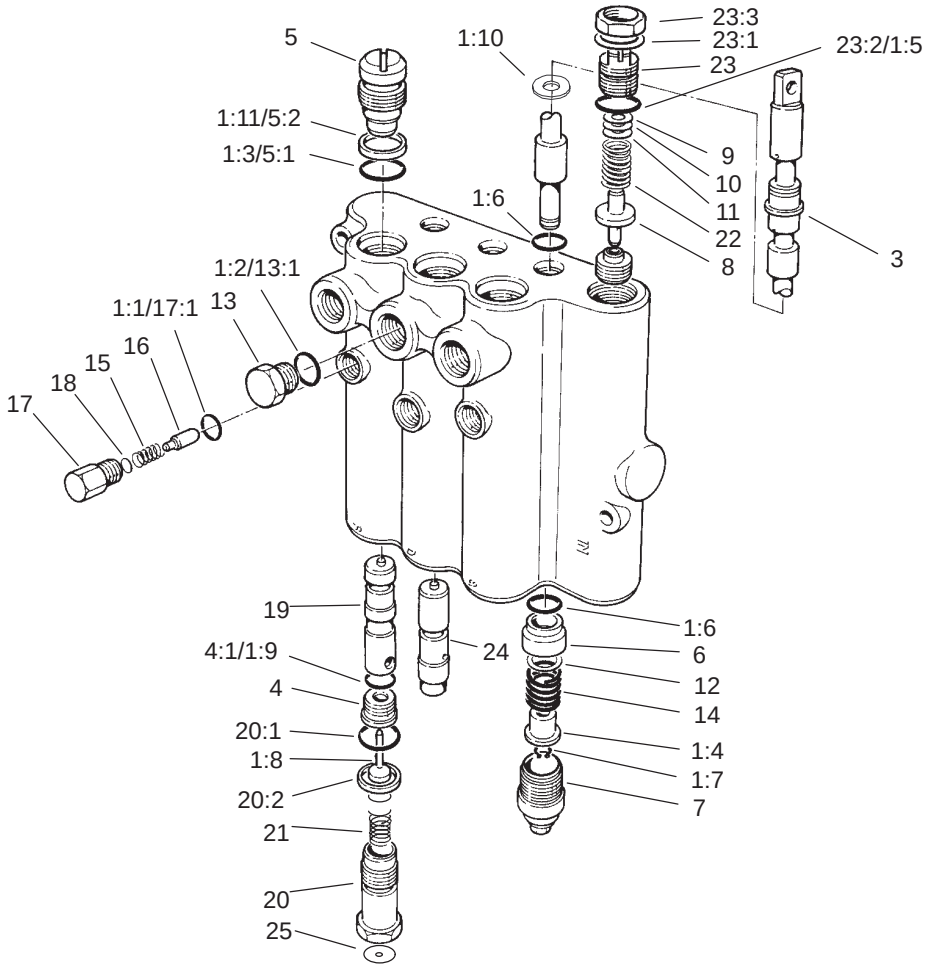



Sheet No.:10

# Control Console Assembly (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 32 | 233-42 | 3 | Knob |
| 33 | 323-38 | 1 | Screw-HH |
| 34 | 321-11 | 2 | Screw-HH |
| 35 | 93-5270 | 1 | Switch-PT O |
| 36 | 2412-126 | 2 | R-Clamp |
| 37 | 88-9830 | 1 | Key Switch ASM |
| 37:1 | 3254-5 | 1 | Washer-Tooth |
| 37:2 | 218-461 | 1 | Nut-HH |
| 38 | 3256-22 | 1 | Washer-Flat |
| 39 | 63-8360 | 1 | Key-Ignition |
| 40 | 80-9330 | 1 | Alarm-Audio |
| 40:1 | 104-5107 | 1 | Nut-Plastic, Knurled |
| 41 | 95-8999 | 1 | Switch |
| 42 | 99-7420 | 1 | Plug-Hole |
| 43 | 86-5480 | 1 | Nipple-Test |
| 44 | 354-79 | 1 | Cap-Dust |
| 45 | 323-6 | 2 | Screw-HH |
| 46 | 99-8970 | 1 | Key-Latch, Hood |
| 47 | 98-9321 | 1 | Ring-Key |
| 48 | 106-2027 | 1 | Switch-Intermittent |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|



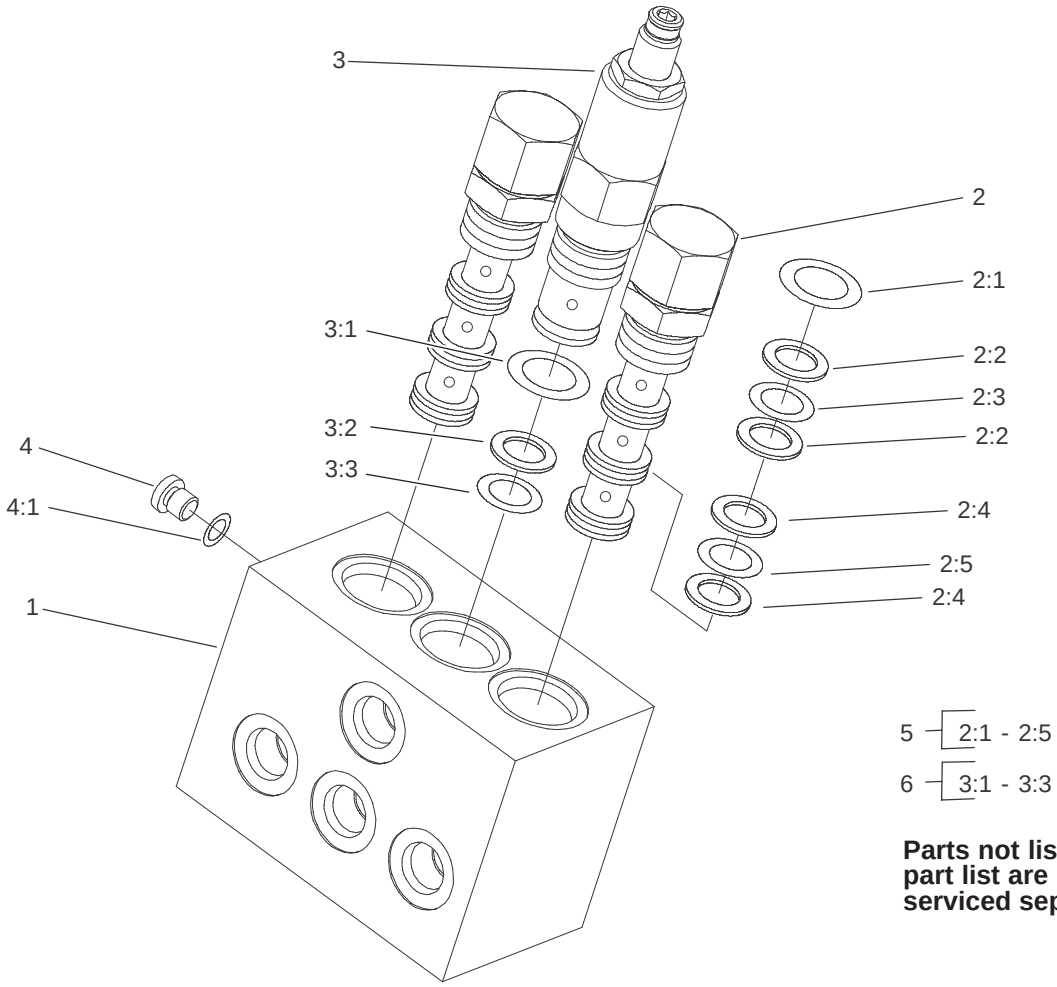

T-3832
Sheet No.:B3

# Control Valve Assembly No. 105-4563

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 60-3780 | 1 | Seal Kit |
| 1:1 | 58-6790 | 3 | O-Ring |
| 1:2 | 58-6720 | 3 | O-Ring |
| 1:3 | 60-5720 | 6 | O-Ring |
| 1:4 | 58-6310 | 6 | Spacer |
| 1:5 | 58-6750 | 1 | O-Ring |
| 1:6 | 58-6450 | 6 | O-Ring |
| 1:7 | 58-6460 | 3 | Ring |
| 1:8 | 58-6290 | 3 | Poppet |
| 1:9 | 58-6340 | 3 | O-Ring |
| 1:10 | 58-6320 | 3 | Wiper |
| 1:11 | 58-6370 | 1 | Washer |
| ☆3 | | 1 | Spool |
| 4 | 58-6330 | 3 | Seat |
| 4:1 | 58-6340 | 1 | O-Ring |
| 5 | 58-6350 | 3 | Plug |
| 5:1 | 60-5720 | 1 | O-Ring |
| 5:2 | 58-6370 | 1 | Washer |
| 6 | 58-6400 | 3 | Bushing |
| 7 | 58-6420 | 3 | Cap |
| 8 | 92-2568 | 1 | Poppet |
| 9 | 58-6470 | 1 | Washer |
| 10 | 58-6480 | 1 | Washer |
| 11 | 58-6490 | 1 | Washer |
| 12 | 65-2770 | 3 | Washer |
| 13 | 58-6710 | 1 | Plug |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 13:1 | 58-6720 | 1 | O-Ring |
| 14 | 58-6730 | 3 | Spring |
| 15 | 58-6760 | 3 | Spring |
| 16 | 58-6770 | 3 | Plunger |
| 17 | 58-6780 | 3 | Plug |
| 17:1 | 58-6790 | 1 | O-Ring |
| 18 | 60-6450 | 1 | Disc |
| 19 | 84-6420 | 2 | Plunger |
| 20 | 69-1800 | 3 | Plug ASM |
| 20:1 | 58-6360 | 1 | O-Ring |
| 20:2 | 58-6370 | 1 | Washer |
| 21 | 69-1810 | 3 | Spring |
| 22 | 84-6450 | 1 | Spring |
| 23 | 69-1830 | 1 | Plug ASM |
| ☆23:1 | | 1 | Washer |
| 23:2 | 58-6750 | 1 | O-Ring |
| ☆23:3 | | 1 | Nut-Lock |
| 24 | 69-1840 | 1 | Plunger |
| 25 | 105-4565 | 2 | Plate-Orifice |

☆ Not serviced separately




**Parts not listed in part list are not serviced separately**

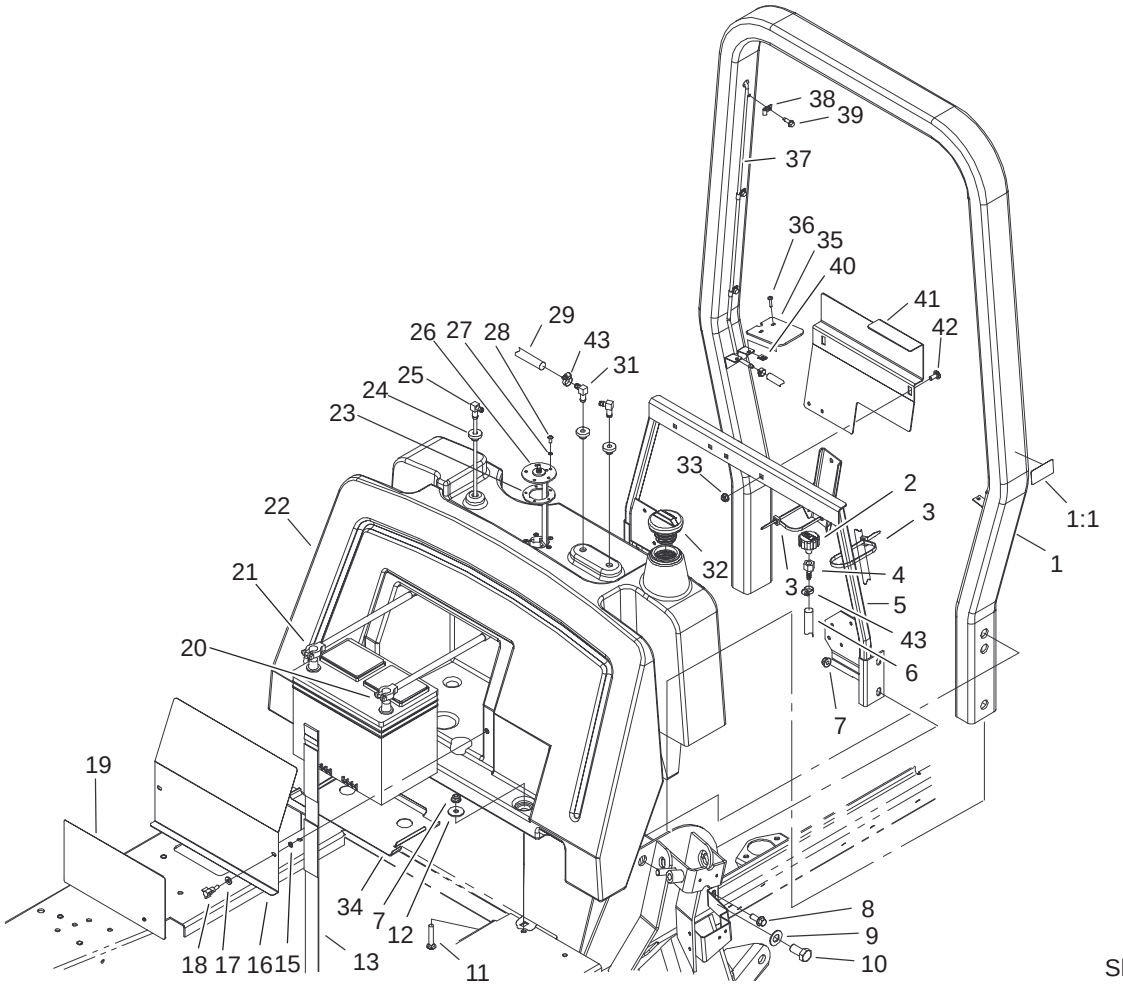
Sheet No.:B4

# Valve Assembly No. 104-0788

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| ☆1 | | 1 | Manifold |
| 2 | 104-4295 | 2 | Valve-Pilot |
| 3 | 104-4296 | 1 | Valve-Relief |
| 4 | 353-991 | 1 | Plug-Hex, Hollow |
| 4:1 | 237-156 | 1 | O-Ring |
| 5 | 99-5502 | 2 | Seal Kit |
| 6 | 99-5503 | 1 | Seal Kit |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately

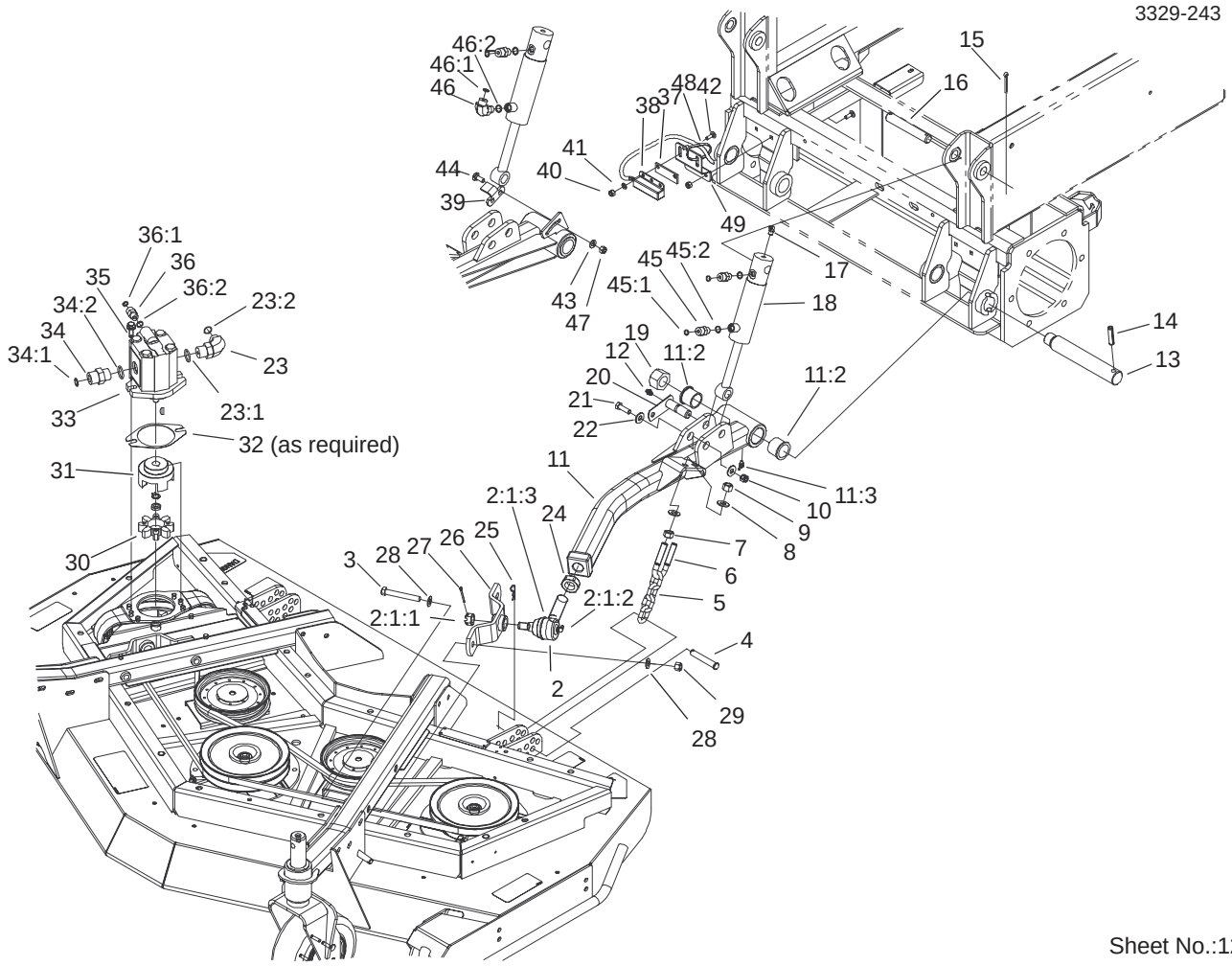



Sheet No.:11

# Fuel Tank, Battery and Roll-Over-Protection-System Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105-2849 | 1 | Rops ASM |
| 1:1 | 105-2834 | 1 | Decal-Rops |
| 2 | 68-6150 | 1 | Breather |
| 3 | 3290-378 | 2 | Tie-Cable |
| 4 | 354-95 | 1 | Fitting-Female, Barbed |
| 5 | 104-0714-03 | 1 | Tank Support ASM |
| 6 | 95-4274 | 1 | Hose-Fuel |
| 7 | 104-8301 | 6 | Nut-Flange, NI |
| 8 | 3234-42 | 4 | Screw-HHF |
| 9 | 3256-27 | 4 | Washer-Flat |
| 10 | 327-3 | 4 | Screw-HH |
| 11 | 3231-6 | 2 | Screw-CARR |
| 12 | 63-8410 | 2 | Washer |
| 13 | 94-1445 | 1 | Strap-Battery |
| 15 | 32151-106 | 2 | Ring-Retaining |
| 16 | 104-0717-03 | 1 | Cover-Battery |
| 17 | 3256-22 | 2 | Washer-Flat |
| 18 | 233-70 | 2 | Knob-3 Star |
| 19 | 104-8336 | 1 | Decal-Service |
| 20 | 104-0761 | 1 | Cable-Negative |
| 21 | 104-0760 | 1 | Cable-Positive |
| 22 | 100-8119 | 1 | Tank-Fuel |
| 23 | 62-7650 | 1 | Gasket |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 24 | 46-6560 | 3 | Bushing |
| 25 | 104-0701 | 1 | Pipe-Stand |
| 26 | 104-0700 | 1 | Sender-Fuel |
| 27 | 3253-15 | 5 | Washer-Lock/Sp |
| 28 | 32122-24 | 5 | Screw-Pth |
| 29 | 47-2986 | 1 | Hose-Fuel |
| 31 | 104-5228 | 2 | Elbow-90 ° |
| 32 | 93-3102 | 1 | Cap-Fuel |
| 33 | 104-8300 | 2 | Nut-Flange, NI |
| 34 | 105-0774-03 | 1 | Plate-Battery |
| 35 | 104-8319 | 2 | Cover-Tank |
| 36 | 3250-13 | 4 | Screw-PPH |
| 37 | 104-0718 | 1 | Tube-Vent |
| 38 | 2412-72 | 3 | Clip-Closed, Insulated |
| 39 | 32104-95 | 3 | Screw-HWH |
| 40 | 3290-191 | 4 | Nut-Speed |
| 41 | 104-2286-03 | 1 | Bracket-Tank, Fuel |
| 42 | 3230-1 | 2 | Bolt-CARR |
| 43 | 2412-108 | 3 | Clamp-Worm |

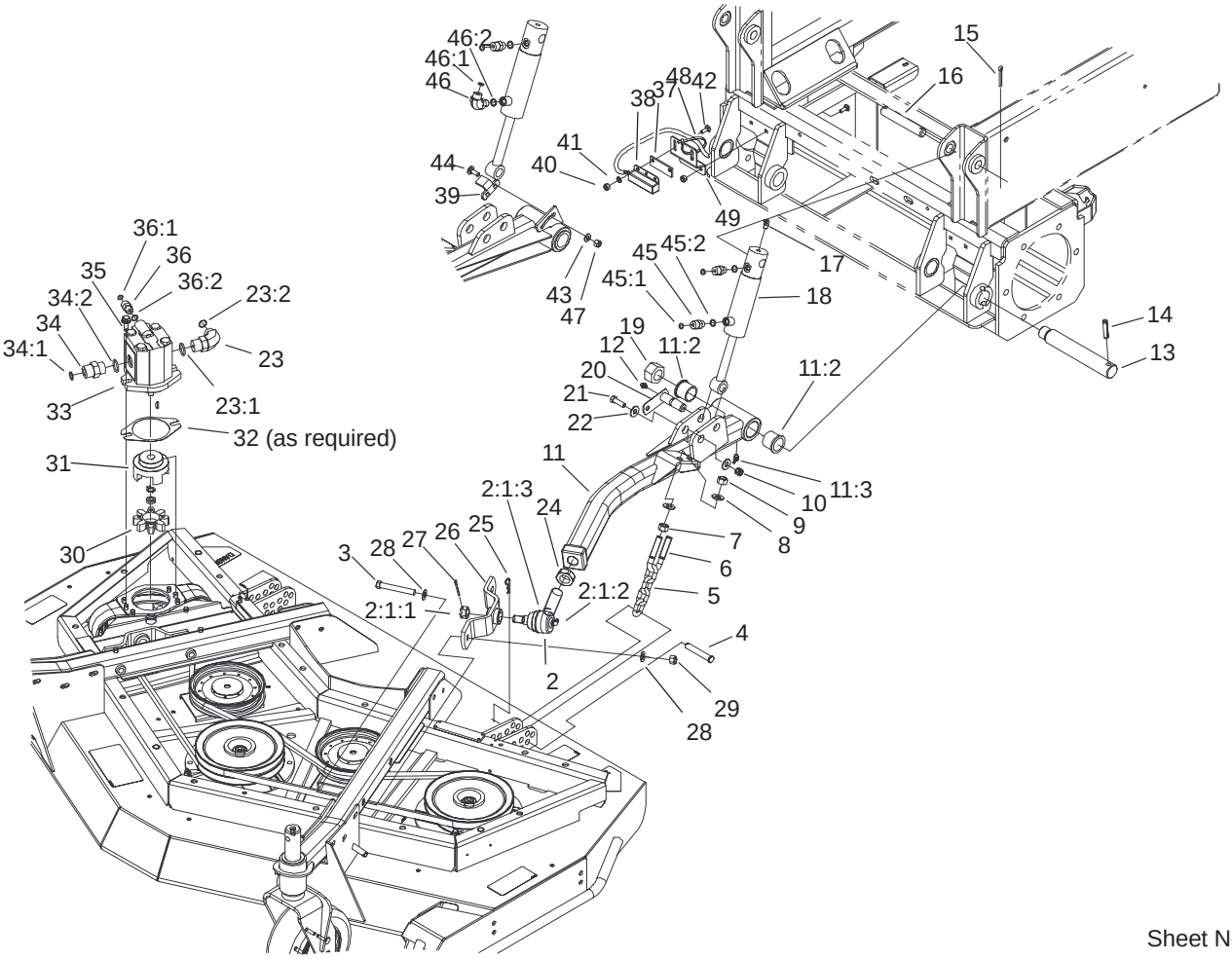



Sheet No.:12

# Front Deck Lift Arm and Cylinder Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 2 | 86-8101-03 | 2 | Joint-Ball, LH |
| 2:1:1 | 32136-2 | 1 | Nut-SHH |
| 2:1:2 | 302-40 | 1 | Fitting-Grease |
| 2:1:3 | 105-7835 | 1 | Seal |
| 3 | 324-19 | 4 | Screw-HH |
| 4 | 283-55 | 2 | Pin-Clevis |
| 5 | 95-6231 | 2 | Chain-HOC |
| 6 | 104-0108 | 2 | U-Bolt |
| 7 | 3217-9 | 4 | Nut-HH |
| 8 | 3256-26 | 8 | Washer-Flat |
| 9 | 3296-25 | 4 | Nut-Lock, NI |
| 10 | 3296-39 | 2 | Nut-Lock, NI |
| 11 | 100-3031 | 1 | RH Lift Arm ASM |
| 11 | 100-3032 | 1 | LH Lift Arm ASM |
| 11:2 | 104-8339 | 2 | Bushing-Flange |
| 11:3 | 302-11 | 1 | Fitting-Lube, 45° |
| 12 | 302-5 | 2 | Fitting-Grease |
| 13 | 100-3017 | 2 | Pin-Arm, Lift |
| 14 | 32121-110 | 2 | Pin-Roll, Slotted |
| 15 | 3272-23 | 4 | Pin-Cotter |
| 16 | 105-7456 | 2 | Pin-Pivot |
| 17 | 302-33 | 2 | Fitting-Grease |
| 18 | 100-3016 | 2 | Cylinder-HYD |
| 19 | 3296-49 | 2 | Nut-Lock, NI |
| 20 | 100-3020 | 2 | Pin ASM |
| 21 | 323-7 | 2 | Screw-HH |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 22 | 3256-4 | 4 | Washer-Flat |
| 23 | 340-139 | 5 | Fitting-HYD, 90° |
| 23:1 | 237-81 | 1 | O-Ring |
| 23:2 | 237-65 | 1 | O-Ring |
| 24 | 21-3001-03 | 2 | Nut-Jam, Push Arm |
| 25 | 3290-467 | 2 | Pin-Hair |
| 26 | 93-4583-01 | 2 | Mount-Joint, Ball |
| 27 | 3272-12 | 2 | Pin-Cotter |
| 28 | 87-7480 | 8 | Washer |
| 29 | 3296-48 | 4 | Nut-Lock, NI |
| 30 | 104-3542 | 3 | Spider |
| 31 | 104-3541 | 3 | Hub-Spider |
| 32 | 100-5638 | 3 | Shim-A Mount |
| 33 | 99-5489 | 3 | Motor-Gear |
| 34 | 340-8 | 1 | Adapter |
| 34:1 | 237-65 | 1 | O-Ring |
| 34:2 | 237-81 | 1 | O-Ring |
| 35 | 3234-42 | 6 | Screw-HHF |
| 36 | 340-2 | 3 | Fitting-Straight, HYD |
| 36:1 | 237-22 | 1 | O-Ring |
| 36:2 | 237-42 | 1 | O-Ring |
| 37 | 104-3595 | 1 | Spacer-Switch |
| 38 | 104-0758 | 1 | Sensor-Ferrous |
| 39 | 104-3598 | 1 | Plate-Sensing, Front |
| 40 | 3296-42 | 4 | Nut-Lock, NI |
| 41 | 3256-60 | 2 | Washer-Flat |

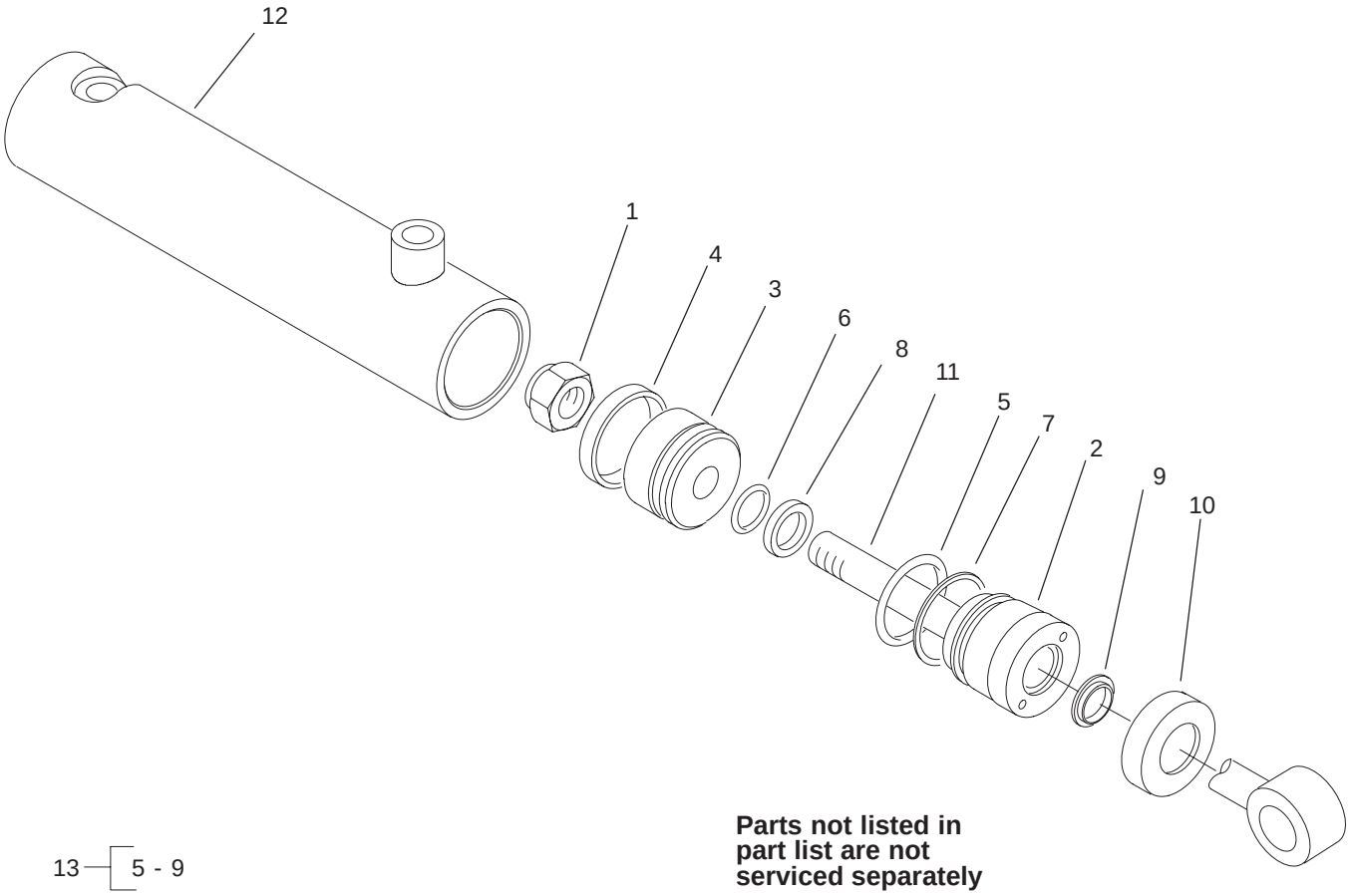



Sheet No.:12

# Front Deck Lift Arm and Cylinder Assembly (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 42 | 3229-1 | 4 | Screw-CARR |
| 43 | 3256-23 | 2 | Washer-Flat |
| 44 | 3230-16 | 2 | Screw-CARR |
| 45 | 340-2 | 3 | Fitting-Straight, HYD |
| 45:1 | 237-22 | 1 | O-Ring |
| 45:2 | 237-42 | 1 | O-Ring |
| 46 | 340-77 | 1 | Fitting-HYD, 90° |
| 46:1 | 237-22 | 1 | O-Ring |
| 46:2 | 237-42 | 1 | O-Ring |
| 47 | 3296-29 | 2 | Nut-Lock, NI |
| 48 | 3290-379 | 1 | Tie-Cable |
| 49 | 106-7176 | 1 | Bracket-Switch |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




T-3762

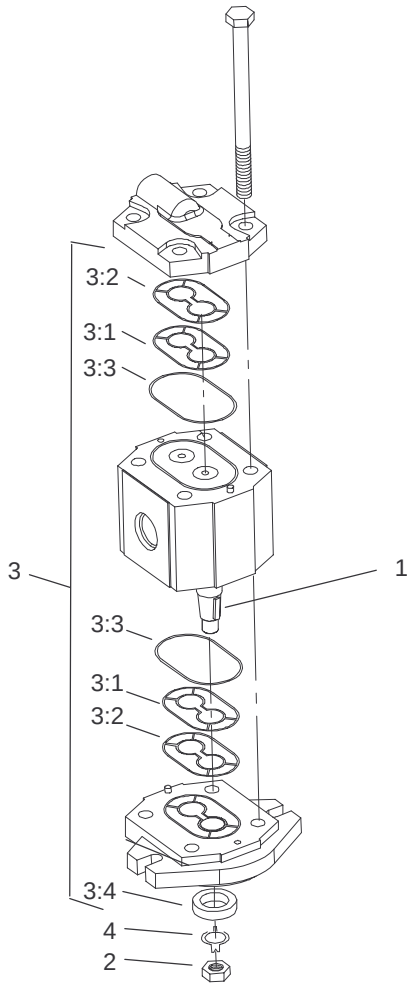
Sheet No.:B7

# Hydraulic Cylinder Assembly No. 100-3016

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 32152-10 | 1 | Locknut |
| ☆2 | | 1 | Head |
| 3 | 70-2780 | 1 | Piston |
| ☆4 | | 1 | Uniring |
| ☆5 | | 1 | O-Ring |
| ☆6 | | 1 | O-Ring |
| ☆7 | | 1 | Backup |
| ☆8 | | 1 | Seal-Rod |
| ☆9 | | 1 | Seal-Dust |
| ☆10 | | 1 | Collar |
| ☆11 | | 1 | Shaft |
| ☆12 | | 1 | Barrel W/Clevis |
| 13 | 86-5360 | 1 | Seal Repair Kit |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately




**Parts not listed in part list are not serviced separately**

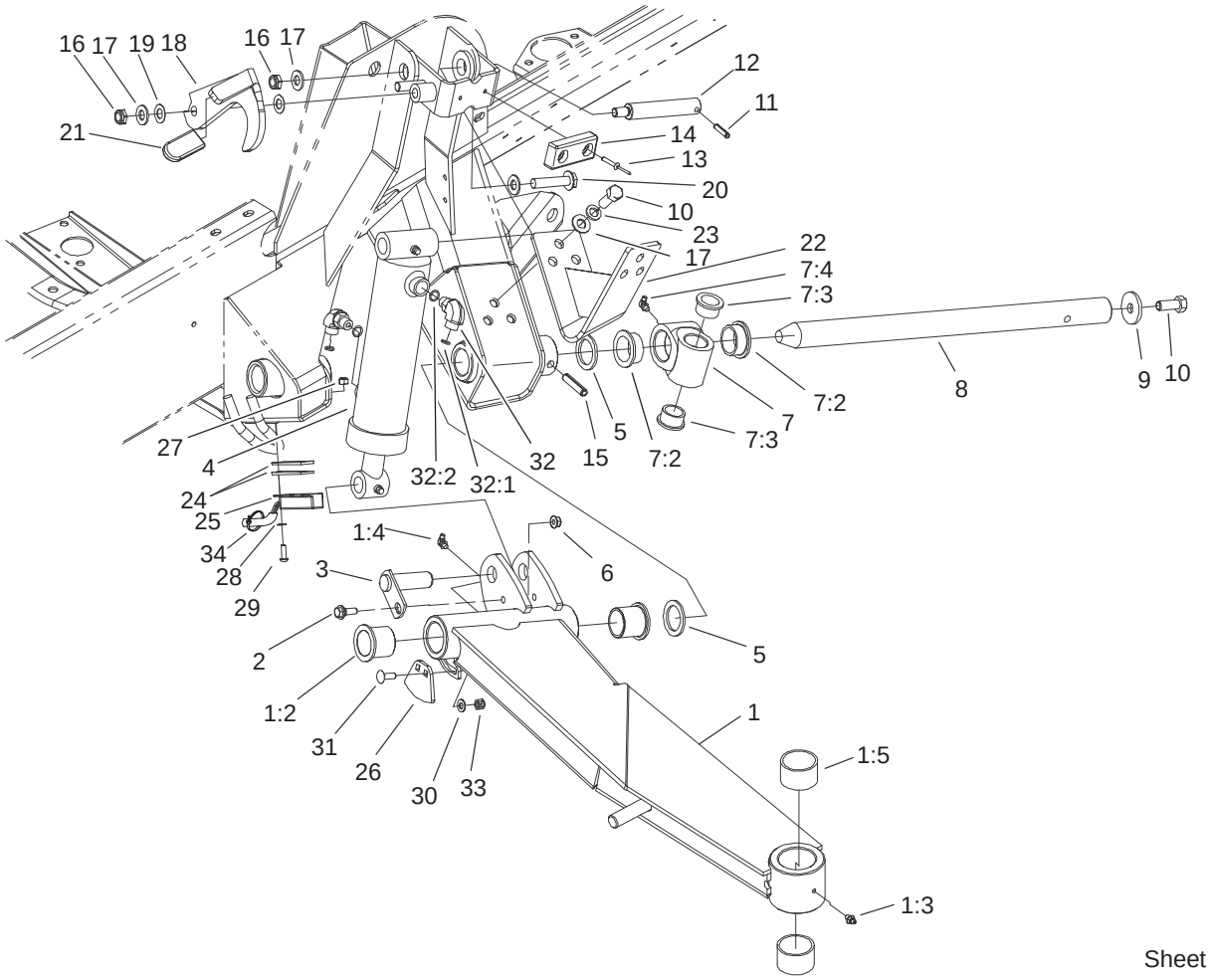
T-3769
Sheet No.:B8

# Motor Assembly No. 99-5489

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 3257-3 | 1 | Key-W oodruff |
| 2 | 3277-1 | 1 | Nut-Hex |
| 3 | 104-4284 | 1 | Seal Kit |
| ☆3:1 | | 2 | Anti-Ext Ring |
| ☆3:2 | | 2 | Seal |
| ☆3:3 | | 2 | O-Ring |
| ☆3:4 | | 1 | Seal-Lip, Shaft |
| 4 | 104-4283 | 1 | Washer-T ab |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately

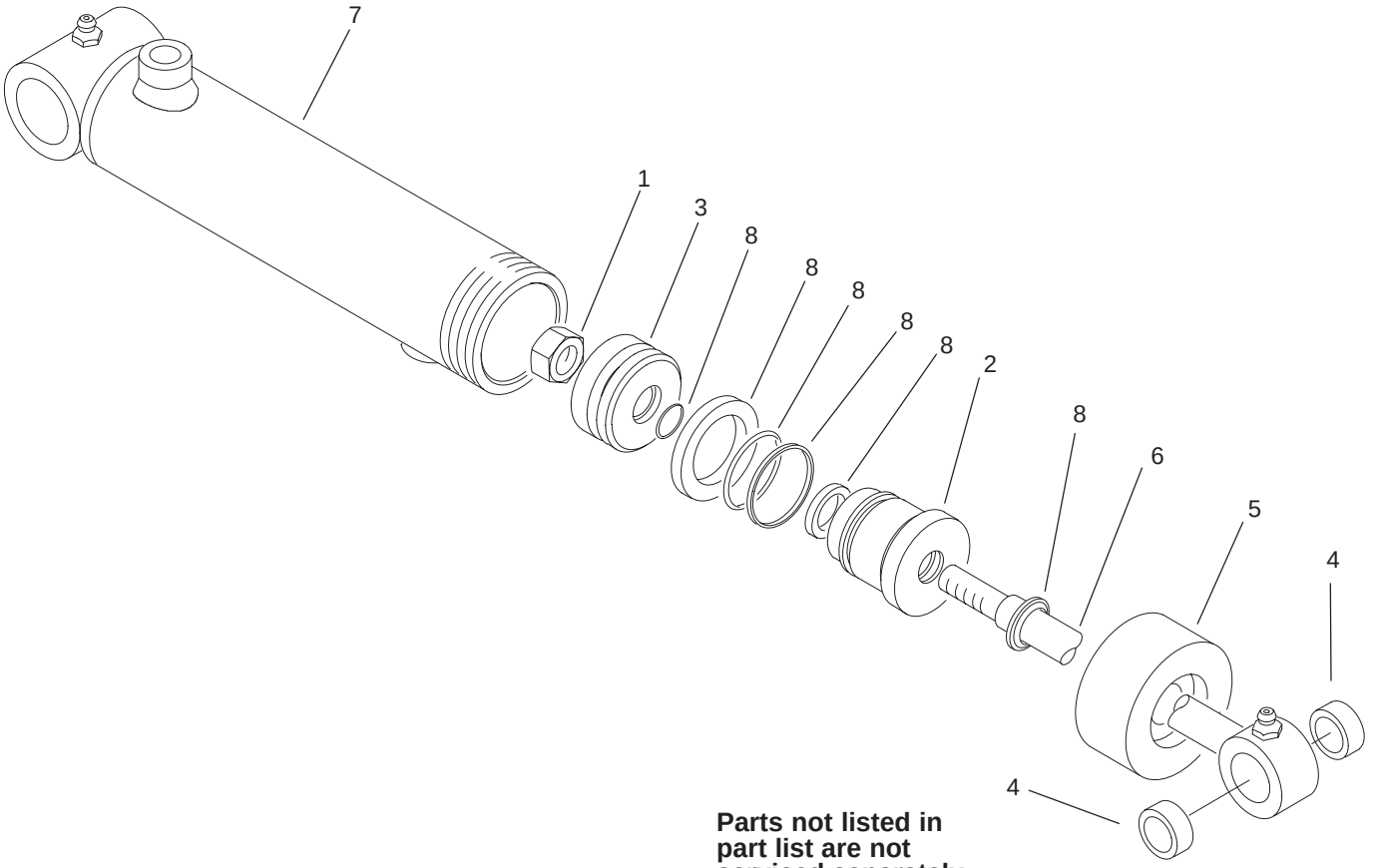



Sheet No.:13

# Side Deck Lift Arm, Cylinder and Latch Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100-8123 | 1 | LH Lift Arm ASM |
| 1 | 100-8122 | 1 | RH Lift Arm ASM |
| 1:2 | 104-8340 | 2 | Bushing |
| 1:3 | 302-5 | 1 | Fitting-Grease |
| 1:4 | 302-60 | 1 | Fitting-Grease |
| 1:5 | 104-8341 | 2 | Bushing-Straight |
| 2 | 27-0410 | 2 | Screw-Shoulder |
| 3 | 100-5674 | 2 | Pin ASM |
| 4 | 99-5496 | 2 | Cylinder-Lift |
| 5 | 256-304 | 4 | Washer-Thrust |
| 6 | 104-8300 | 2 | Nut-Flange, NI |
| 7 | 100-8115 | 2 | Pivot Hub ASM |
| 7:2 | 104-3517 | 2 | Bushing-Flange |
| 7:3 | 256-132 | 2 | Bushing-Flange |
| 7:4 | 302-60 | 1 | Fitting-Grease |
| 8 | 100-5582 | 2 | Shaft-Pivot, Lift Arm |
| 9 | 106-2008 | 2 | Washer-Thrust |
| 10 | 325-5 | 8 | Screw-HH |
| 11 | 32121-9 | 2 | Pin-Spring |
| 12 | 104-3537 | 2 | Pin-Cylinder |
| 13 | 3269-11 | 4 | Rivet |
| 14 | 86-5350 | 2 | Bumper-Rubber |
| 15 | 32121-110 | 2 | Pin-Roll, Slotted |
| 16 | 3296-45 | 4 | Nut-Lock, NI |
| 17 | 3256-26 | 8 | Washer-Flat |
| 18 | 104-3556-03 | 1 | Latch-RH |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 18 | 104-3557-03 | 1 | Latch-LH |
| 19 | 104-3577 | 4 | Washer-Delrin |
| 20 | 3234-46 | 2 | Screw-HHF |
| 21 | 48-7081 | 2 | Grip-Plastic |
| 22 | 104-8330-03 | 2 | Cam Bracket ASM |
| 23 | 3253-7 | 6 | Washer-Lock |
| 24 | 104-3595 | 4 | Spacer-Switch |
| 25 | 104-0758 | 2 | Sensor-Ferrous |
| 26 | 105-0792 | 2 | Plate-Sensing |
| 27 | 3296-42 | 4 | Nut-Lock, NI |
| 28 | 3256-60 | 4 | Washer-Flat |
| 29 | 3274-65 | 4 | Screw-HSBH |
| 30 | 3256-23 | 4 | Washer-Flat |
| 31 | 3230-16 | 4 | Screw-CARR |
| 32 | 340-77 | 4 | Fitting-HYD, 90° |
| 32:1 | 237-22 | 1 | O-Ring |
| 32:2 | 237-42 | 1 | O-Ring |
| 33 | 3296-29 | 4 | Nut-Lock, NI |
| 34 | 3290-379 | 1 | Tie-Cable |




**Parts not listed in part list are not serviced separately**

T-3761

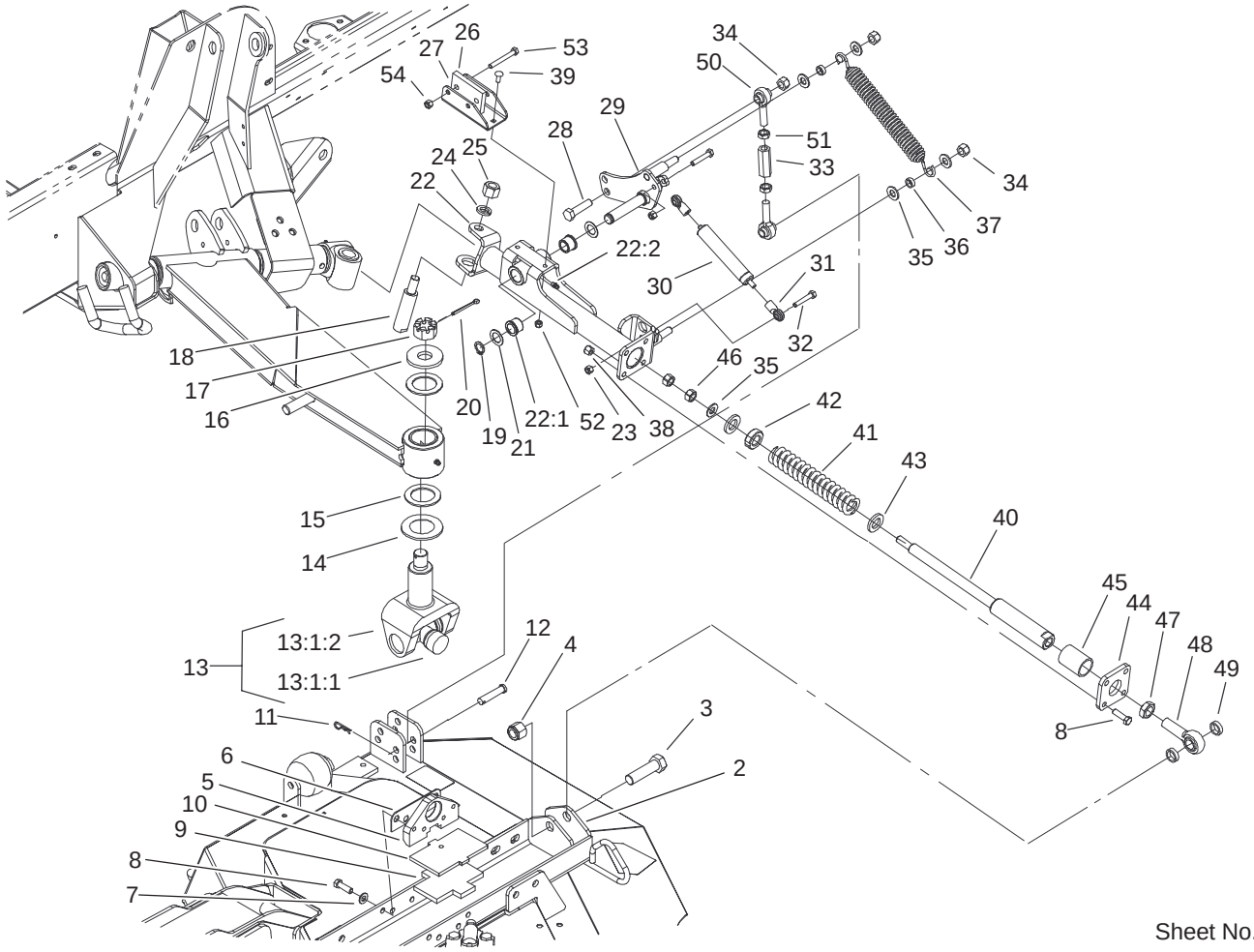
Sheet No.:B9

# Hydraulic Cylinder Assembly No. 99-5496

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 60-9760 | 1 | Nut |
| ☆2 | | 1 | Head |
| ☆3 | | 1 | Piston |
| 4 | 104-4281 | 2 | Bushing |
| 5 | 74-2220 | 1 | Collar |
| ☆6 | | 1 | Shaft W/Clevis |
| ☆7 | | 1 | Barrel W/Clevis & Ports |
| 8 | 104-4282 | 1 | Repair Kit |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately



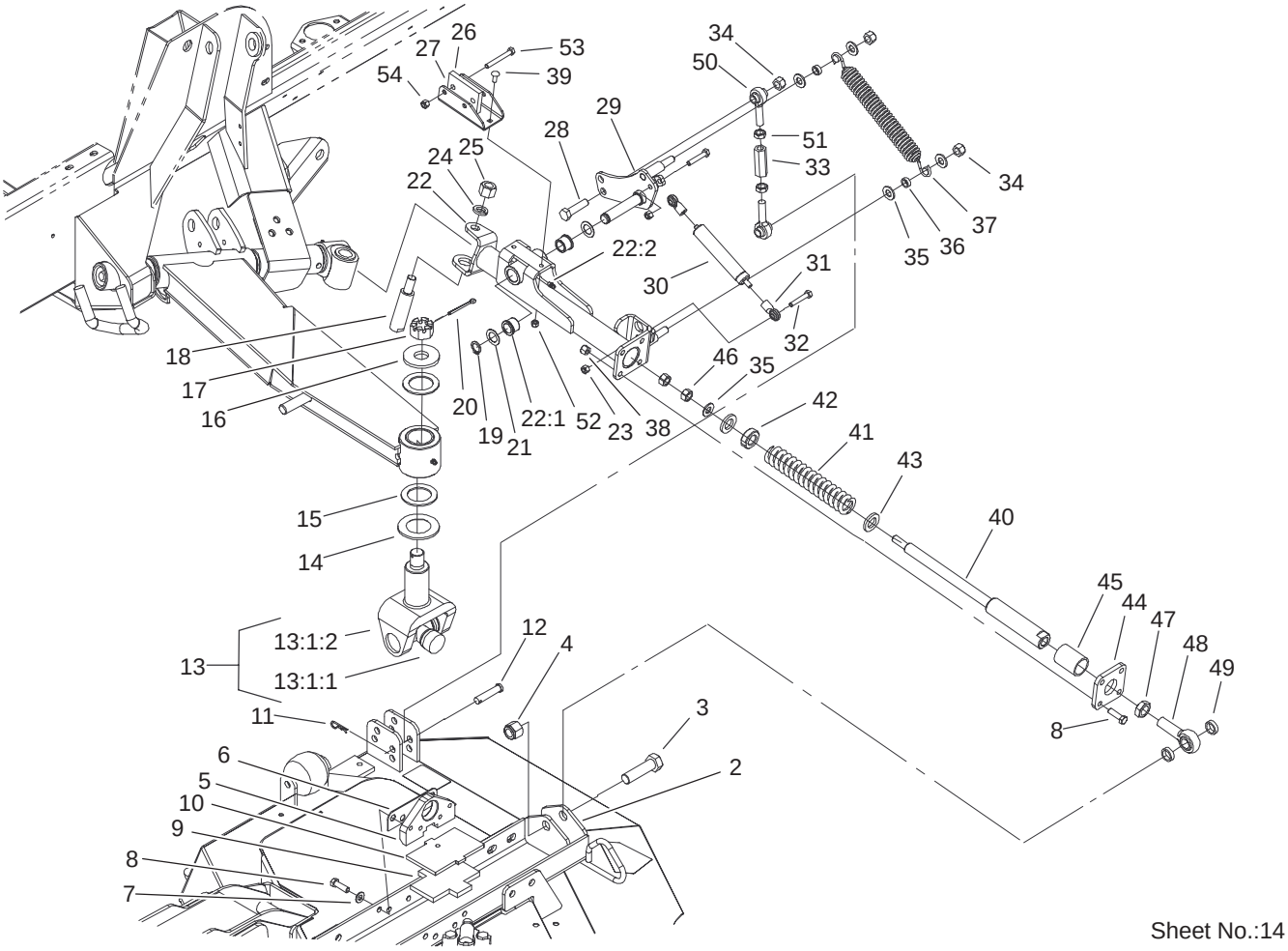

Sheet No.:14

# Side Deck Lift Arm and Damper Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 2 | 100-8148-03 | 1 | RH Mount ASM |
| 2 | 100-8149-03 | 1 | LH Mount ASM |
| 3 | 328-4 | 2 | Screw-HH |
| 4 | 3296-51 | 2 | Nut-Lock, NI |
| 5 | 104-8305-03 | 4 | Mount-Base |
| 6 | 104-0731 | 4 | Shim |
| 7 | 3256-24 | 16 | Washer-Flat |
| 8 | 323-7 | 24 | Screw-HH |
| 9 | 104-8348 | 2 | Plate-Rubber |
| 10 | 104-8347-03 | 2 | Plate |
| 11 | 3290-467 | 2 | Pin-Hair |
| 12 | 92-2739 | 2 | Pin-Clevis |
| 13 | 104-0705-03 | 2 | Yoke-Joint |
| 13:1:1 | 104-4299 | 1 | Cross & Bearing Kit |
| ☆13:1:2 | | 1 | Yoke |
| 14 | 104-0720 | 2 | Spacer |
| 15 | 104-0721 | 4 | Washer-Thrust |
| 16 | 104-0719 | 2 | Washer-Hardened |
| 17 | 32136-11 | 2 | Nut-Hex, Slot |
| 18 | 104-2281 | 2 | Shaft-Pivot |
| 19 | 32120-93 | 2 | Ring-Retaining |
| 20 | 3272-25 | 2 | Pin-Cotter |
| 21 | 3-6498 | 4 | Washer-Thrust |
| 22 | 105-2801 | 1 | LH Rear Arm ASM |
| 22 | 105-2800 | 1 | RH Rear Arm ASM |
| 22:1 | 256-113 | 2 | Bushing-Flange |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 22:2 | 302-5 | 1 | Fitting-Grease |
| 23 | 3296-29 | 4 | Nut-Lock, NI |
| 24 | 3253-8 | 2 | Washer-Lock |
| 25 | 3296-53 | 2 | Nut-Lock, NI |
| 26 | 69-9290 | 10 | Pad-Bumper |
| 27 | 105-4556-03 | 2 | Bracket-Bumper |
| 28 | 325-8 | 2 | Screw-HH |
| 29 | 100-5684-03 | 1 | RH Bell Crank ASM |
| 29 | 100-5690-03 | 1 | LH Bell Crank ASM |
| 30 | 105-3249 | 2 | Damper |
| 31 | 104-8331 | 4 | End-Rod, Spherical |
| 32 | 322-9 | 4 | Screw-HH |
| 33 | 105-2809 | 2 | Tube-Link |
| 34 | 3296-23 | 6 | Nut-Lock, NI |
| 35 | 3256-26 | 10 | Washer-Flat |
| 36 | 104-7521 | 4 | Bushing |
| 37 | 104-7520 | 2 | Spring-Damper |
| 38 | 3296-39 | 8 | Nut-Lock, NI |
| 39 | 3229-25 | 4 | Screw-CARR |
| 40 | 105-4548 | 2 | Shaft-Spring |
| 41 | 100-8138 | 2 | Spring-Compression |
| 42 | 105-4552 | 2 | Bearing-Plastic |
| 43 | 105-4551 | 4 | Washer-Flat |
| 44 | 105-2807-03 | 2 | Plate |
| 45 | 105-4550 | 2 | Bushing-Straight |

☆ Not serviced separately

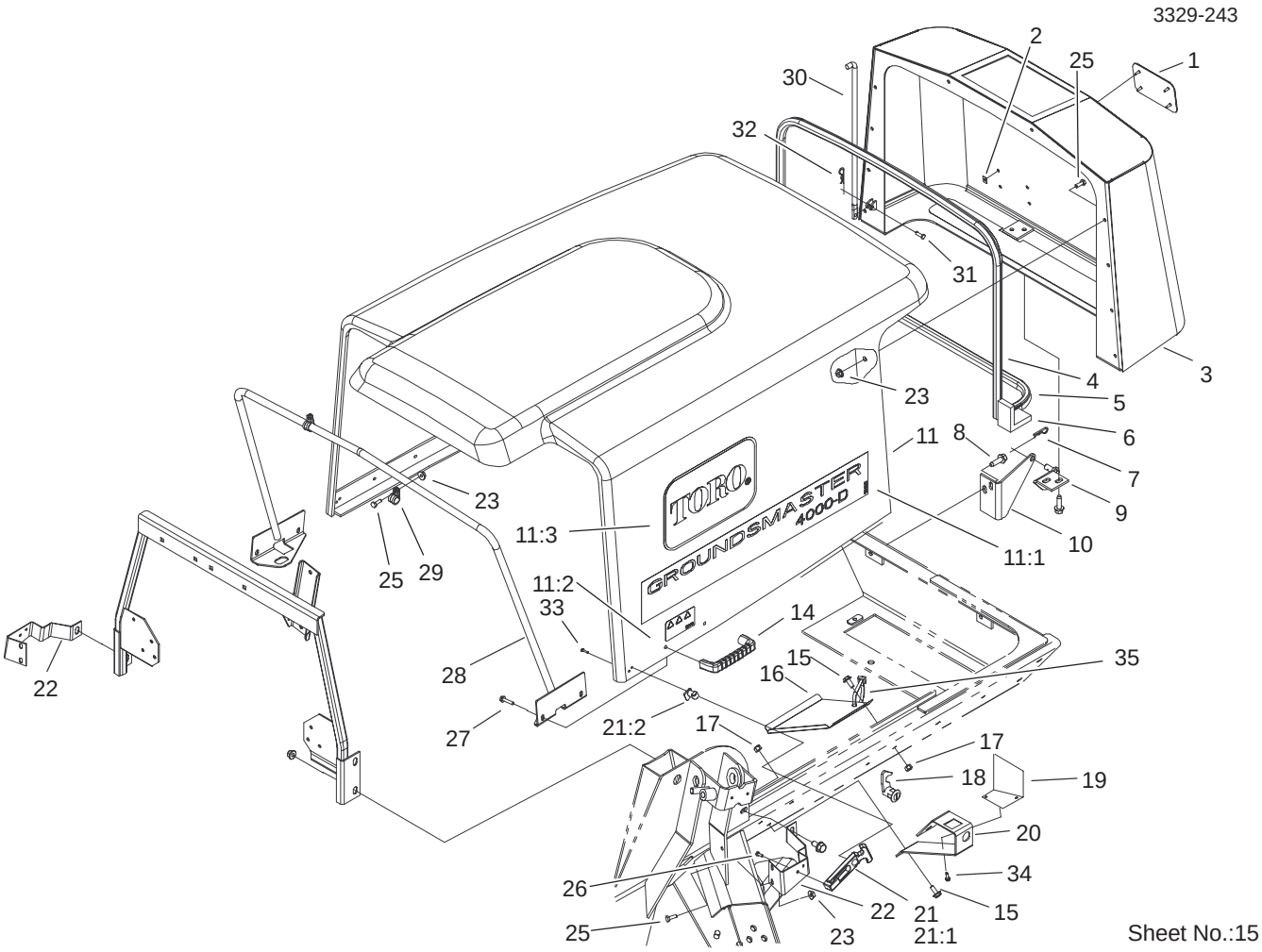



Sheet No.:14

# Side Deck Lift Arm and Damper Assembly (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 46 | 3217-9 | 4 | Nut-HH |
| 47 | 3220-7 | 2 | Nut-Jam |
| 48 | 105-2806 | 2 | End-Rod |
| 49 | 105-0756 | 4 | Spacer |
| 50 | 105-2808 | 4 | End-Rod |
| 51 | 3220-5 | 4 | Nut-Jam |
| 52 | 3296-42 | 4 | Nut-Lock, NI |
| 53 | 322-12 | 4 | Screw-HH |
| 54 | 3296-29 | 4 | Nut-Lock, NI |

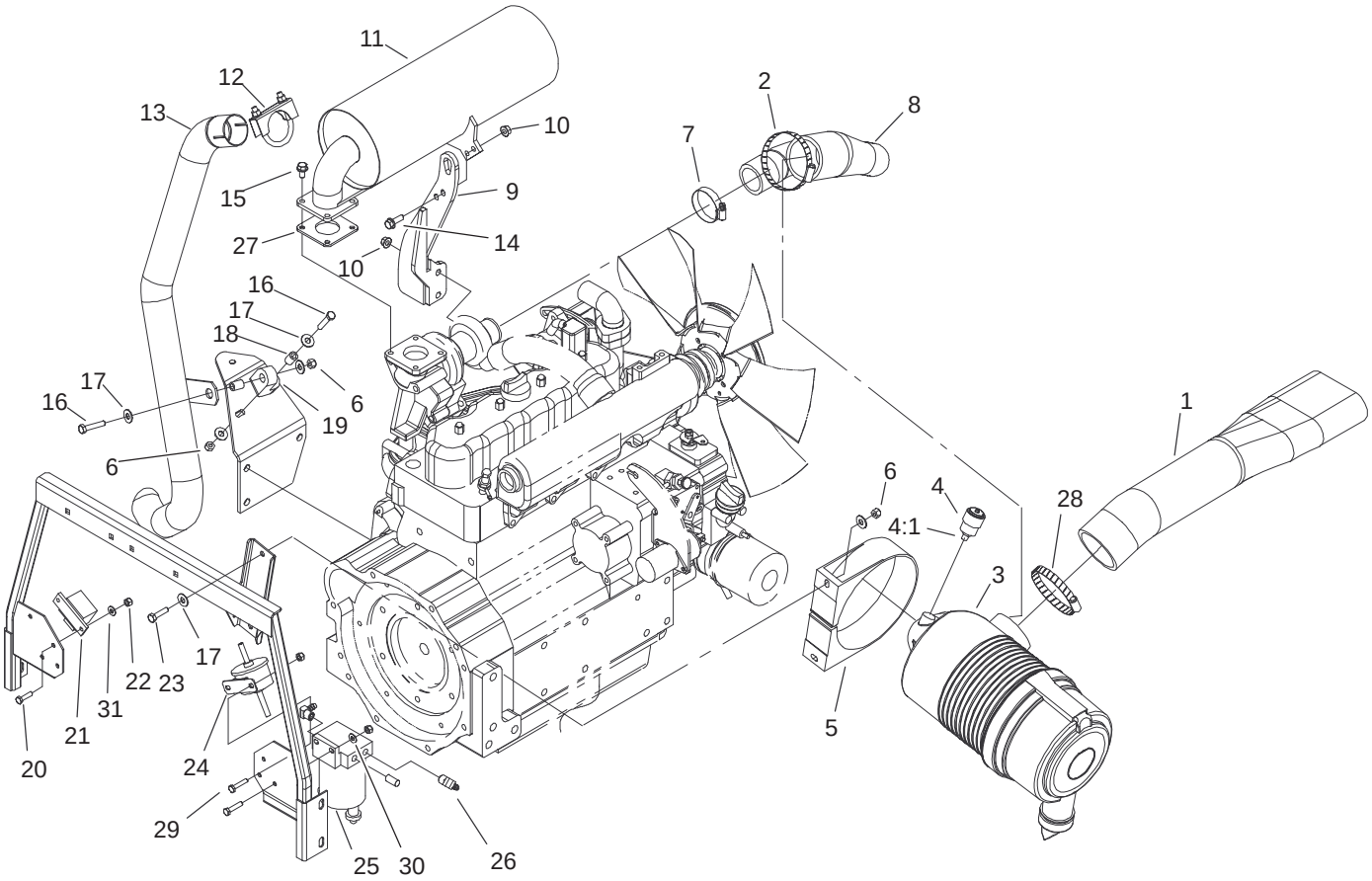
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




# Hood and Screen Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 93-6028 | 1 | Plate-Logo, Toro |
| 2 | 94-2638 | 4 | Nut-T innerman |
| 3 | 100-5506-03 | 1 | Screen ASM |
| 4 | 104-2225 | 1 | Seal-Bulb |
| 5 | 104-3590 | 1 | Seal-Bulb |
| 6 | 104-3580 | 2 | Seal-Corner , Screen |
| 7 | 3290-467 | 2 | Pin-Hair |
| 8 | 32144-109 | 8 | Screw |
| 9 | 104-3589 | 2 | Screen Pivot ASM |
| 10 | 104-3588-03 | 2 | Pivot-Screen |
| 11 | 104-8338 | 1 | Hood ASM |
| 11:1 | 106-2045 | 2 | Decal-Hood, Gm 4000 |
| 11:2 | 106-6754 | 1 | Decal-Danger |
| 11:3 | 66-1210 | 2 | Decal-Logo, Toro |
| 14 | 65-5100 | 2 | Handle-Door |
| 15 | 3234-5 | 4 | Screw |
| 16 | 104-3560-03 | 1 | Deflector-Filter , Oil |
| 17 | 32128-20 | 4 | Nut-HF |
| 18 | 98-5398 | 1 | Latch |
| 19 | 105-4531 | 1 | Cover-Latch |
| 20 | 104-3591-03 | 1 | Bracket-Latch, Hood |
| 21 | 94-5626 | 2 | Latch-Draw , Flexible |
| 21:1 | 100-5806 | 1 | Handle-Latch |
| 21:2 | 100-5807 | 1 | Keeper-Latch |
| 22 | 104-2255-03 | 1 | Bracket-Latch, RH |
| 22 | 104-2253-03 | 1 | Bracket-Latch, LH |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 23 | 32128-33 | 16 | Nut-HF |
| 25 | 321-4 | 16 | Screw-HH |
| 26 | 32144-1 | 4 | Screw-T aptite |
| 27 | 46-8092 | 4 | Screw-Plastite |
| 28 | 104-3505-03 | 1 | Hood Support ASM |
| 29 | 2412-134 | 2 | R-Clamp |
| 30 | 104-8313 | 1 | Rod-Hood |
| 31 | 283-67 | 1 | Pin-Clevis |
| 32 | 3290-307 | 1 | Pin-Hair |
| 33 | 32104-4 | 2 | Screw |
| 34 | 32104-95 | 2 | Screw-HWH |
| 35 | 3290-378 | 1 | Tie-Cable |

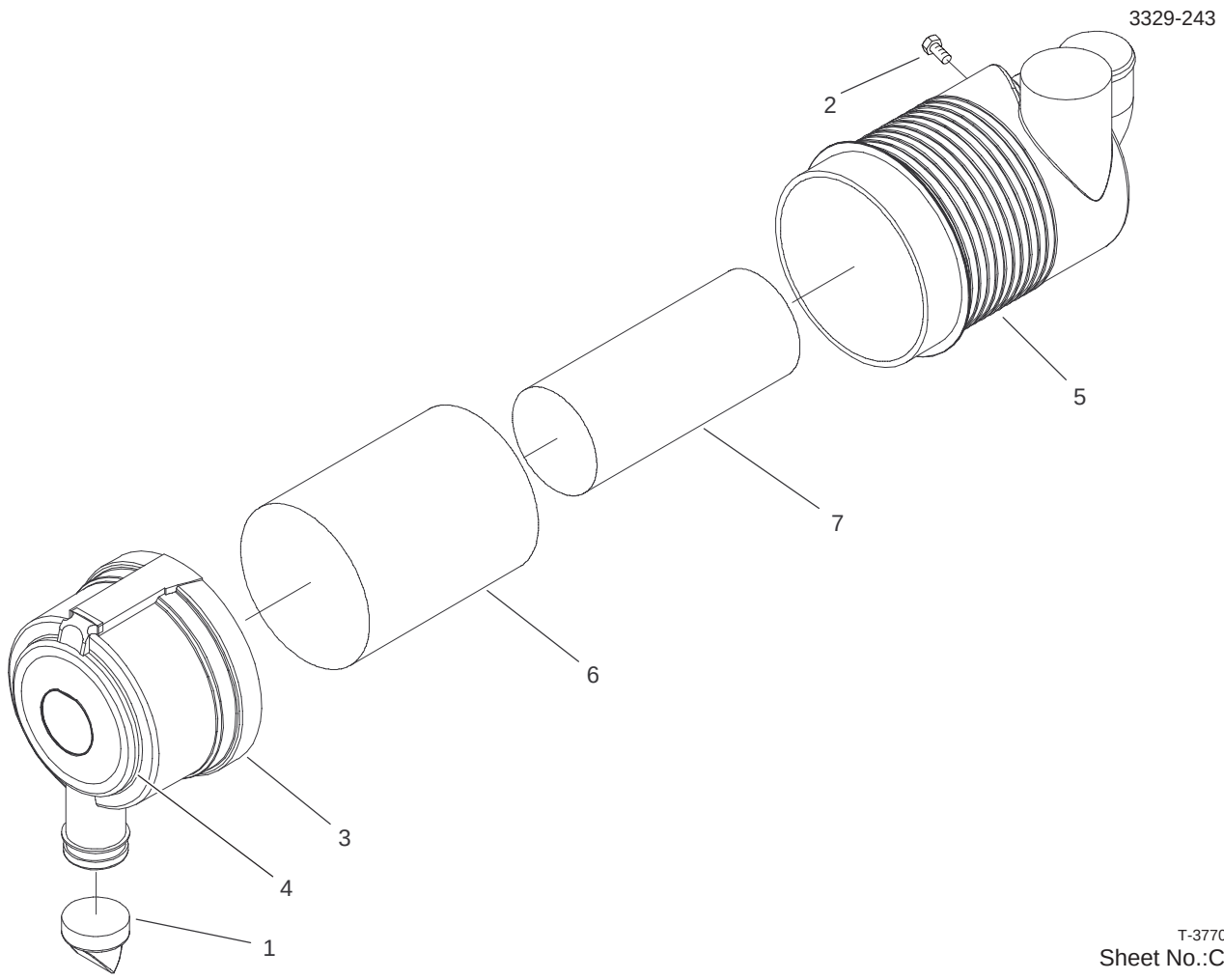



Sheet No.:16

# Air Cleaner and Muffler Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100-5550 | 1 | Hose-Cleaner , Air |
| 2 | 2412-1 10 | 1 | Clamp-Hose |
| 3 | 99-5410 | 1 | Cleaner-Air |
| 4 | 104-3563 | 1 | Indicator |
| 4:1 | 94-1416 | 1 | Indicator Adapter ASM |
| 5 | 99-5414 | 1 | Strap-Cleaner , Air |
| 6 | 3296-29 | 4 | Nut-Lock, NI |
| 7 | 2412-92 | 1 | Clamp-Hose |
| 8 | 99-5415 | 1 | Hose-Cleaner , Air |
| 9 | 99-5421-03 | 1 | Bracket-Mounting |
| 10 | 33004-00 | 4 | Nut-HF |
| 11 | 99-5424 | 1 | Muffler-T urbo |
| 12 | 18-2130 | 1 | Clamp-Column, Steering |
| 13 | 100-5610 | 1 | Pipe-Exhaust |
| 14 | 33104-025 | 2 | Screw-HHF |
| 15 | 33104-016 | 4 | Screw-HHF |
| 16 | 322-9 | 2 | Screw-HH |
| 17 | 3256-3 | 8 | Washer-Flat |
| 18 | 93-5023 | 2 | Spacer |
| 19 | 95-5622 | 1 | Hanger-Rubber |
| 20 | 321-6 | 4 | Screw-HH |
| 21 | 66-8800 | 1 | Relay |
| 22 | 3296-42 | 6 | Nut-Lock, NI |
| 23 | 322-6 | 2 | Screw-HH |
| 24 | 104-5215 | 1 | Pump-Fuel, Electric |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 25 | 98-9305 | 1 | Filter-W ater/Fuel |
| 26 | 353-781 | 2 | Fitting |
| 27 | 100-9333 | 1 | Gasket-Muf fler |
| 28 | 2412-125 | 1 | Clamp-Hose |
| 29 | 321-4 | 2 | Screw-HH |
| 30 | 3256-23 | 2 | Washer-Flat |
| 31 | 3256-22 | 2 | Washer-Flat |



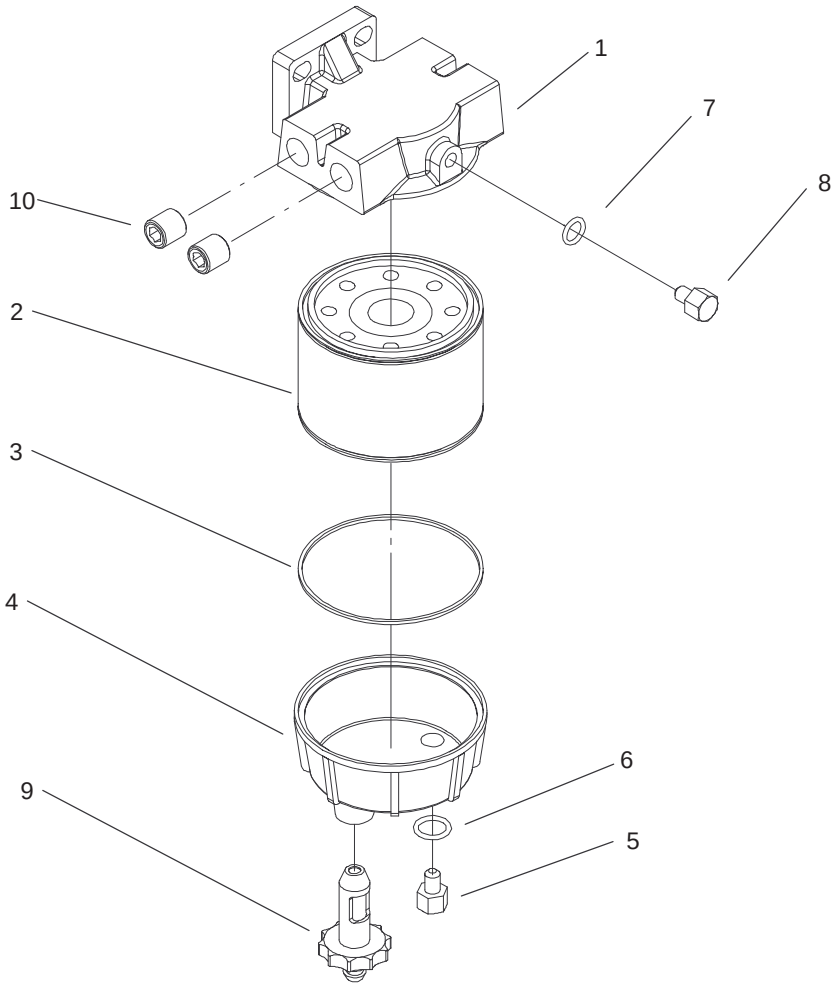

T-3770
Sheet No.:C2

# Air Cleaner Assembly No. 99-5410

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-4258 | 1 | Valve-V acuator |
| ☆2 | | 1 | Plug-Pipe |
| 3 | 104-4259 | 1 | Cover ASM |
| ☆4 | | 1 | Marking |
| ☆5 | | 1 | Body ASM |
| 6 | 104-4260 | 1 | Element ASM |
| 7 | 104-4261 | 1 | Element ASM |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately

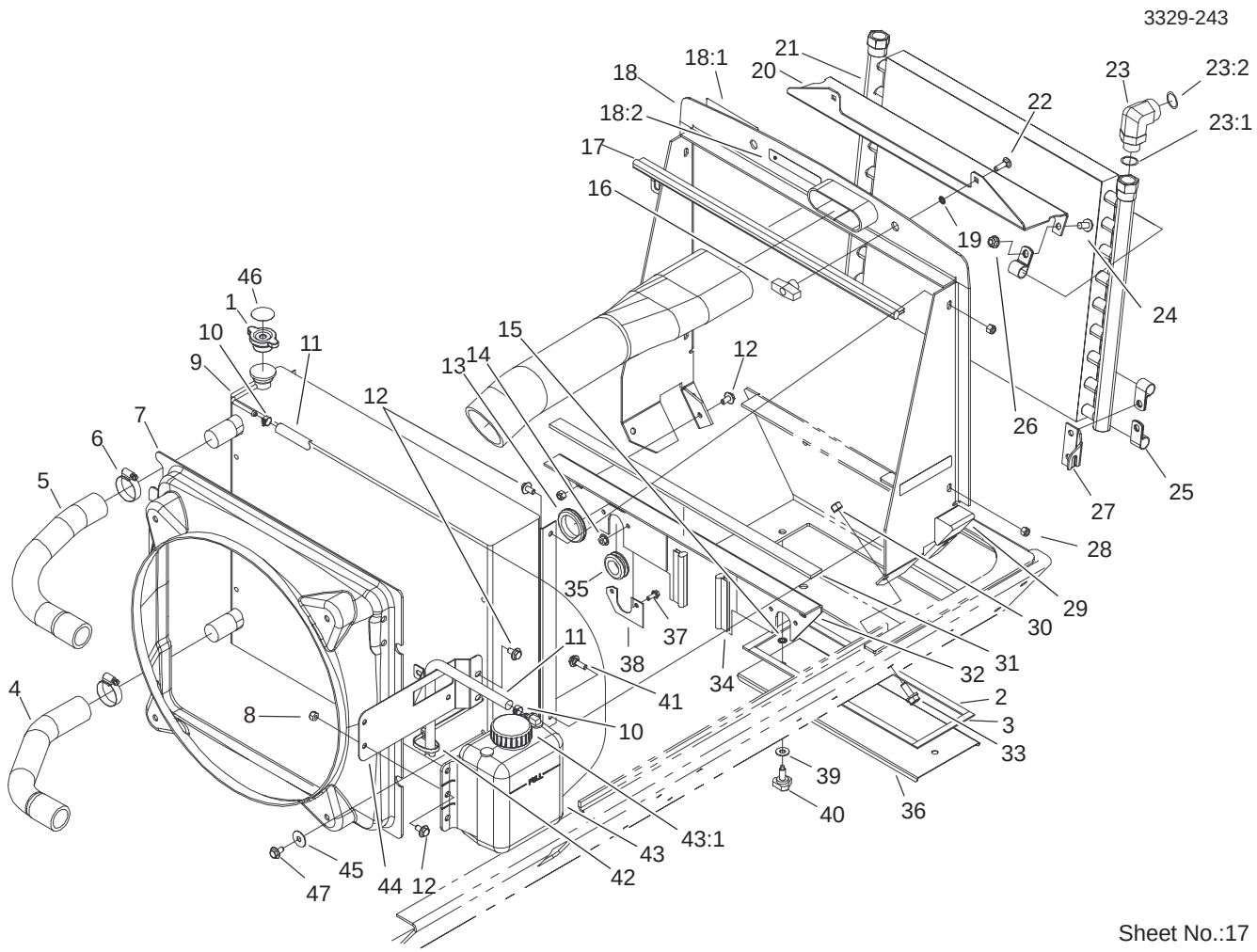



T-3330
Sheet No.:C3

# Water/Fuel Separator Filter Assembly No. 98-9305

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 98-9772 | 1 | Head-Filter |
| 2 | 98-9764 | 1 | Element |
| 3 | 98-9774 | 1 | O-Ring-Base, Filter |
| 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 |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

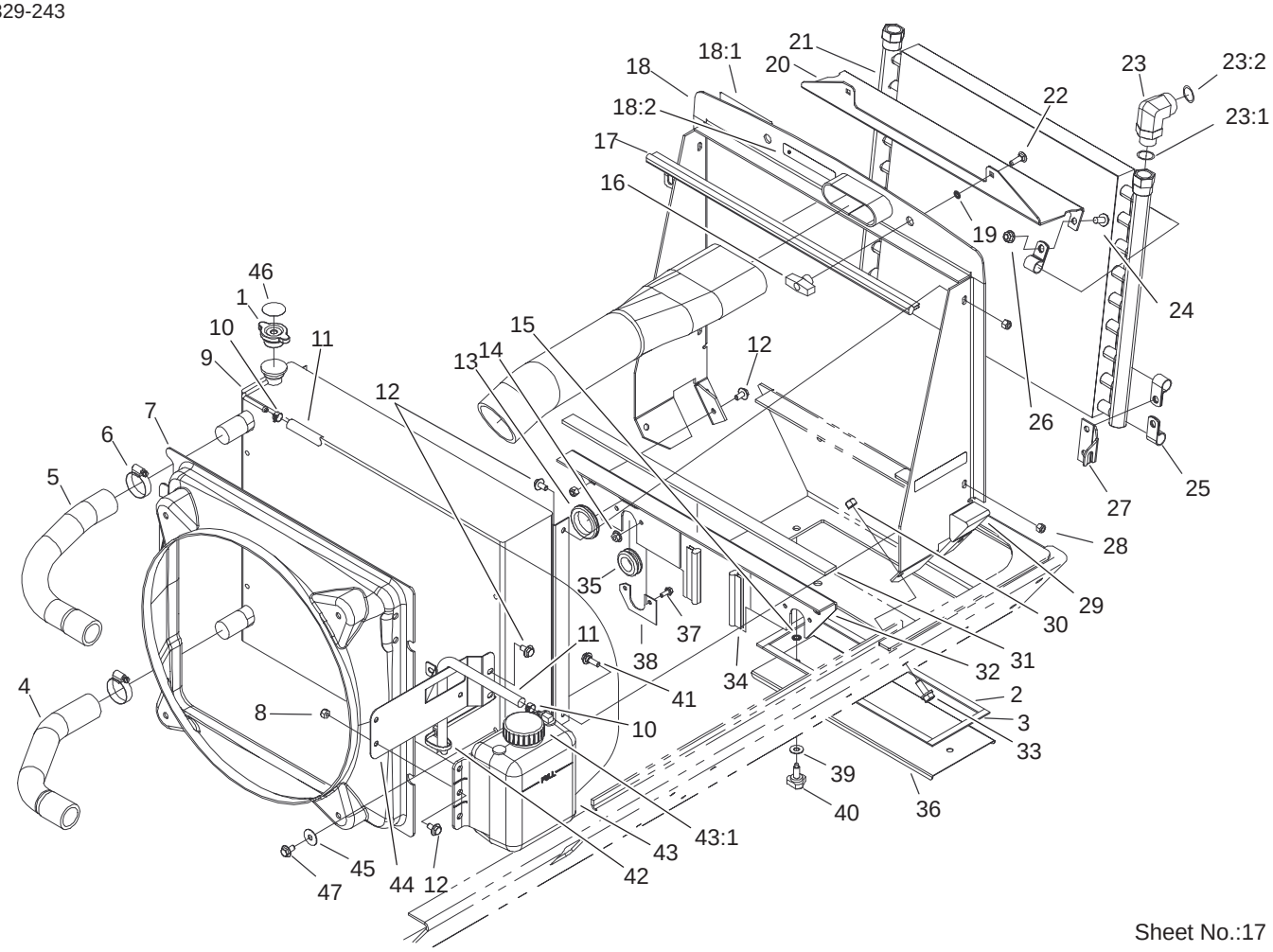



Sheet No.:17

# Radiator, Oil Cooler and Support Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 93-5957 | 1 | Cap-Radiator |
| 2 | 105-0777 | 2 | Strip-Foam |
| 3 | 105-0778 | 2 | Strip-Foam |
| 4 | 100-5546 | 1 | Hose-Radiator , Lower |
| 5 | 100-5547 | 1 | Hose-Radiator |
| 6 | 2412-1 11 | 4 | Clamp |
| 7 | 99-5428 | 1 | Shroud-Radiator |
| 8 | 3296-29 | 5 | Nut-Lock, NI |
| 9 | 99-5426 | 1 | Radiator |
| 10 | 92-2379 | 3 | Clamp-Hose |
| 11 | 71-3370 | 2 | Hose-Fuel |
| 12 | 3234-7 | 10 | Screw-HHF |
| 13 | 240-3 | 1 | Grommet-Rubber |
| 14 | 32128-33 | 4 | Nut-HF |
| 15 | 32151-72 | 2 | Ring-Retaining |
| 16 | 98-7134 | 2 | Knob-Handle |
| 17 | 104-2223 | 1 | Seal-Bulb |
| 18 | 105-0757 | 1 | Radiator Support ASM |
| 18:1 | 93-7275 | 1 | Decal-Fluid, Starting |
| 18:2 | 93-7272 | 3 | Decal-W arning |
| 19 | 104-8310 | 2 | Ring-Retaining |
| 20 | 104-7522-03 | 1 | Bracket-Cooler , Oil |
| 21 | 99-5495 | 1 | Cooler-Oil |
| 22 | 3230-22 | 2 | Screw-CARR |
| 23 | 104-3796 | 2 | Fitting-HYD, 90° |
| 23:1 | 237-81 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 23:2 | 340-65 | 1 | O-Ring |
| 24 | 3234-1 | 6 | Screw-HHF |
| 25 | 2412-81 | 6 | Clamp |
| 26 | 104-8301 | 6 | Nut-Flange, NI |
| 27 | 100-3078-03 | 1 | Bracket-Cooler , LH |
| 27 | 100-3077-03 | 1 | Bracket-Cooler , RH |
| 28 | 104-8300 | 4 | Nut-Flange, NI |
| 29 | 93-5954 | 2 | Foam-Plug |
| 30 | 3296-39 | 4 | Nut-Lock, NI |
| 31 | 104-2226 | 1 | Strip-Foam |
| 32 | 99-5517-03 | 1 | Support-Lower |
| 33 | 3234-24 | 4 | Screw-HHF |
| 34 | 104-2224 | 2 | Seal-Bulb |
| 35 | 237-165 | 2 | Grommet |
| 36 | 104-2287-03 | 1 | Cover-Frame |
| 37 | 3234-33 | 4 | Screw-HHF |
| 38 | 104-831 1 | 2 | Plate |
| 39 | 3256-3 | 2 | Washer-Flat |
| 40 | 95-9648 | 2 | Knob |
| 41 | 28-0540 | 2 | Bolt-Shoulder |
| 42 | 3290-378 | 1 | Tie-Cable |
| 43 | 104-2276 | 1 | Reservior-Coolant |
| 43:1 | 87-7050 | 1 | Cap-Reservoir |
| 44 | 100-5505-03 | 1 | Bracket-T ank |
| 45 | 3256-35 | 4 | Washer-Flat |
| 46 | 106-6755 | 1 | Decal-Radiator Cap |

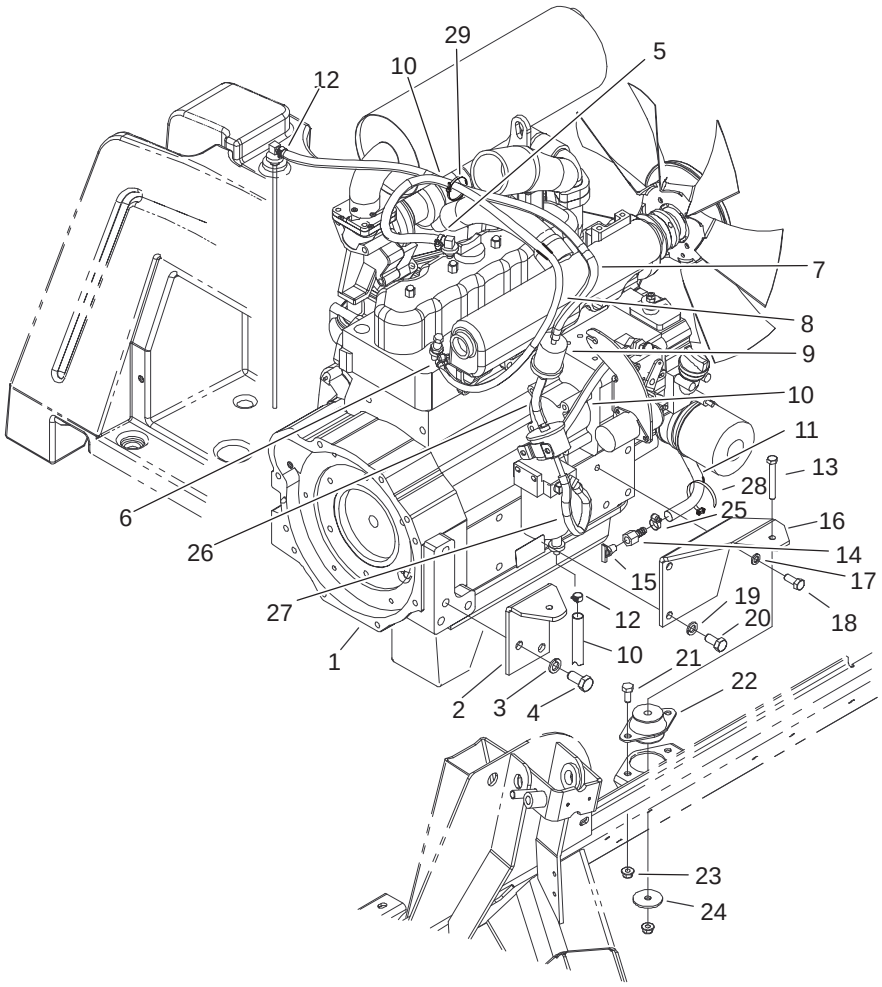



Sheet No.:17

# Radiator, Oil Cooler and Support Assembly (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 47 | 322-1 | 4 | Screw-HH |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

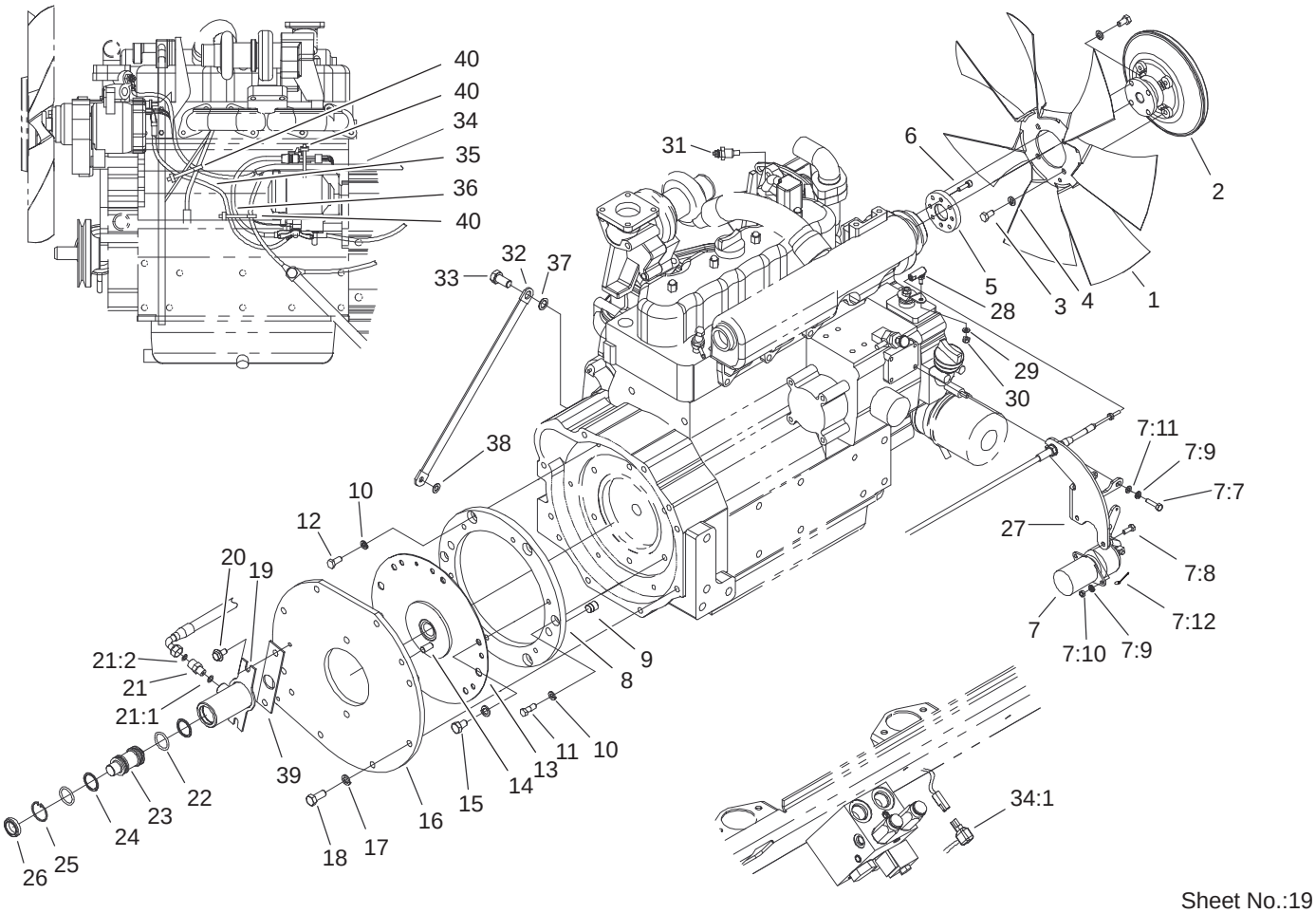



Sheet No.:18

# Engine and Mount Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 99-5413 | 1 | Engine-T urbo, Kubota |
| 2 | 100-3147-03 | 1 | Mount-Engine, LH |
| 2 | 100-3148-03 | 1 | Mount-Engine, RH |
| 3 | 43-5950 | 4 | Washer-Lock, Spring |
| 4 | 43-3210 | 4 | Screw-HH |
| 5 | 2412-108 | 1 | Clamp-W orm |
| 6 | 2412-80 | 1 | Clamp-Line, Fuel |
| 7 | 63-7630 | 1 | Hose-Fuel |
| 8 | 75-4706 | 1 | Hose-Fuel |
| 9 | 98-7612 | 1 | Filter-Fuel |
| 10 | 19-3250 | 2 | Hose-Fuel |
| 11 | 99-7376 | 1 | Hose-Breather |
| 12 | 92-2379 | 9 | Clamp-Hose |
| 13 | 323-14 | 4 | Screw-HH |
| 14 | 354-94 | 1 | Fitting-Female, Barbed |
| 15 | 93-5528 | 1 | Fitting-Cock, Drain |
| 16 | 106-2048-03 | 1 | Mount-Engine, RH |
| 16 | 106-2049-03 | 1 | Mount-Engine, LH |
| 17 | 48-9590 | 1 | Washer-Lock |
| 18 | 43-0090 | 1 | Screw-HH |
| 19 | 48-8070 | 5 | Washer-Lock |
| 20 | 42-9250 | 5 | Bolt |
| 21 | 323-5 | 8 | Screw-HH |
| 22 | 53-9682 | 4 | Support-Engine, Rubber |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 23 | 104-8301 | 12 | Nut-Flange, NI |
| 24 | 63-7400 | 4 | Washer-Rebound |
| 25 | 2412-108 | 2 | Clamp-W orm |
| 26 | 27-5350 | 1 | Hose-Fuel |
| 27 | 63-9640 | 1 | Hose |
| 28 | 3290-379 | 1 | Tie-Cable |
| 29 | 3290-378 | 1 | Tie-Cable |

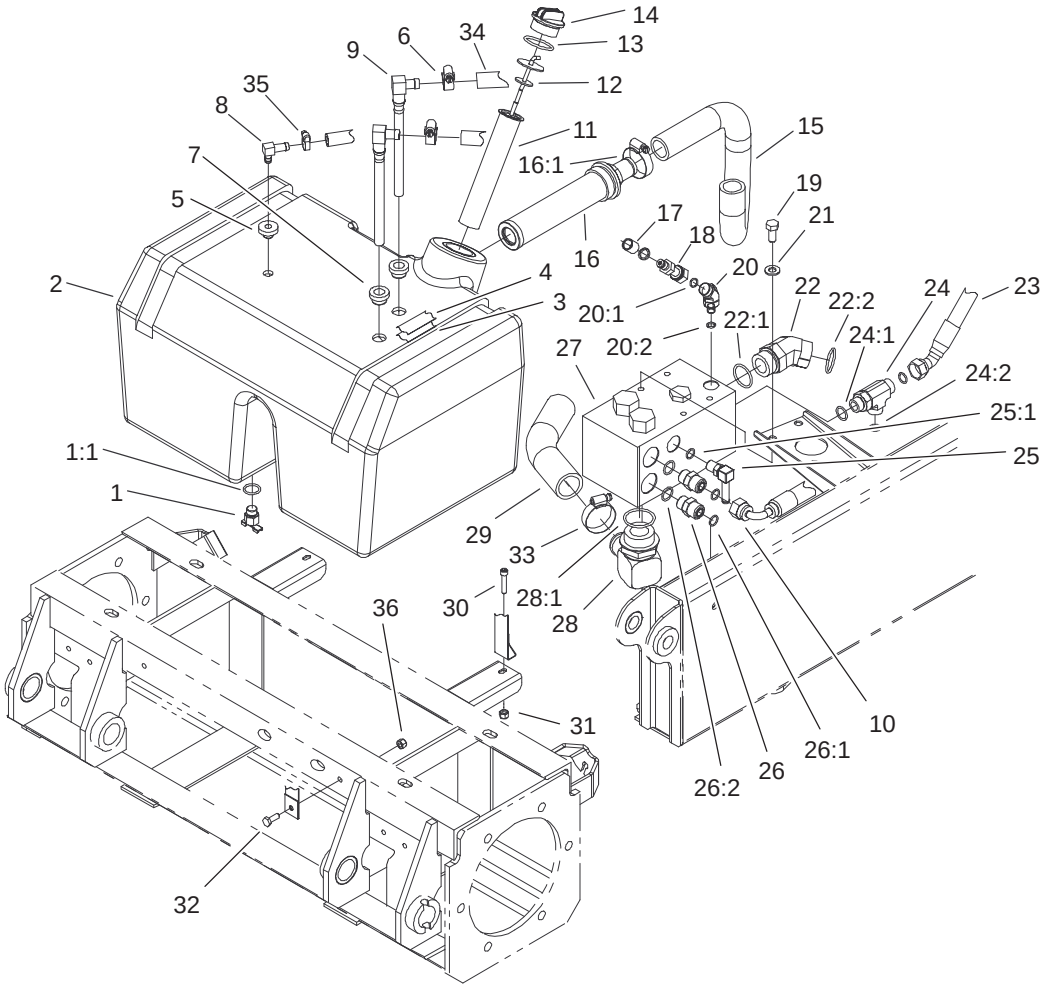



Sheet No.:19

# Fan Drive and Flywheel Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105-0750 | 1 | Fan |
| 2 | 104-2212 | 1 | Clutch-Fan |
| 3 | 322-2 | 8 | Screw-HH |
| 4 | 3253-4 | 8 | Washer-Lock |
| 5 | 100-3066 | 1 | Adapter-Fan |
| 6 | 52-6290 | 4 | Screw-HH |
| 7 | 98-3817 | 1 | Solenoid Kit |
| 7:7 | 33113-025 | 3 | Screw-HH |
| 7:8 | 33113-016 | 2 | Screw-HH |
| 7:9 | 48-8020 | 5 | Washer-Spring |
| 7:10 | 33013-00 | 2 | Nut-Hex |
| 7:11 | 33093-00 | 3 | Washer-Flat |
| 7:12 | 3272-2 | 1 | Pin-Cotter |
| 8 | 100-5633 | 1 | Spacer-Coupling |
| 9 | 58-3590 | 2 | Dowel |
| 10 | 42-9850 | 6 | Washer-Lock, Spring |
| 11 | 100-5634 | 2 | Bolt-Shoulder |
| 12 | 33114-020 | 4 | Screw-HH |
| 13 | 92-1753 | 1 | Coupling-Spring |
| 14 | 100-5635 | 2 | Pin-Plate |
| 15 | 70-8470 | 6 | Screw-HH |
| 16 | 100-5632-03 | 1 | Plate-Adapter |
| 17 | 48-9590 | 14 | Washer-Lock |
| 18 | 43-0090 | 8 | Screw-HH |
| 19 | 104-2291 | 1 | Cylinder ASM |
| 20 | 3234-5 | 2 | Screw |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 21 | 340-92 | 1 | Fitting-HYD, Straight |
| 21:1 | 237-78 | 1 | O-Ring |
| 21:2 | 237-21 | 1 | O-Ring |
| 22 | 237-185 | 2 | O-Ring |
| 23 | 104-2295 | 1 | Piston-Cylinder |
| 24 | 104-2296 | 2 | Ring-Back Up |
| 25 | 32151-51 | 1 | Ring-Retaining |
| 26 | 104-8304 | 1 | Seal-Grease |
| 27 | 104-7540-03 | 1 | Support-Cable |
| 28 | 2411-38 | 1 | Joint-Ball |
| 29 | 3256-51 | 1 | Washer-Flat |
| 30 | 3296-21 | 1 | Nut-Lock, NI |
| 31 | 98-9346 | 1 | Sender-Temperature |
| 32 | 18-2770 | 1 | Cable-Ground |
| 33 | 42-9250 | 1 | Bolt |
| 34 | 100-5553 | 1 | Harness-Wire, Engine |
| 34:1 | 100-4918 | 3 | Diode |
| 35 | 100-5552 | 1 | Harness-Wire |
| 36 | 99-3441 | 1 | Harness-Wire, Fusible Link |
| 37 | 3255-2 | 1 | Washer-Lock/Ext |
| 38 | 3255-8 | 1 | Washer-Lock |
| 39 | 105-3238-03 | 2 | Plate-Shim |
| 40 | 3290-378 | 3 | Tie-Cable |

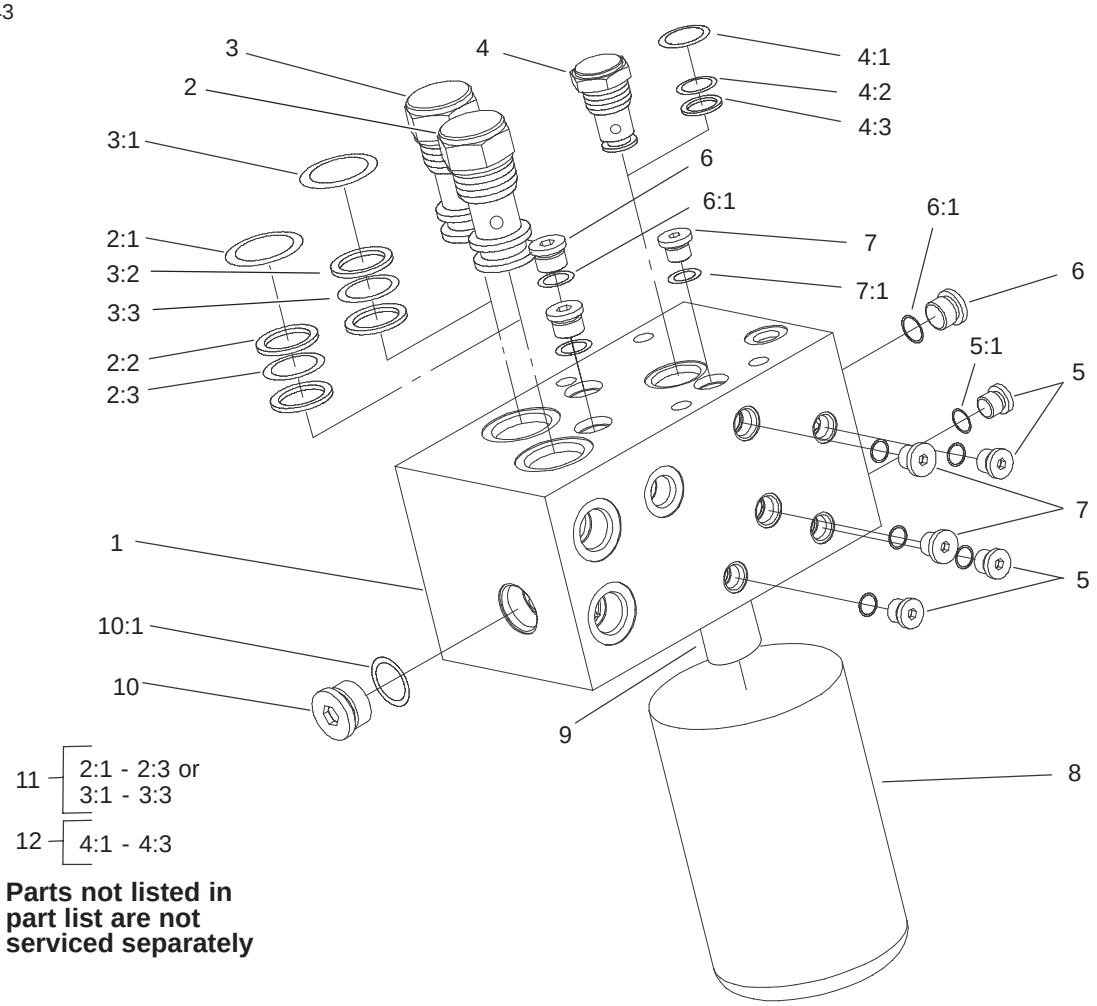



Sheet No.:20

# Hydraulic Reservoir and Filter Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-8334 | 1 | Petcock |
| 1:1 | 237-42 | 1 | O-Ring |
| 2 | 104-0703 | 1 | Reservoir-HYD |
| 3 | 93-5273 | 2 | Strap-Felt |
| 4 | 104-0794 | 2 | Strap |
| 5 | 46-6560 | 1 | Bushing |
| 6 | 2412-36 | 2 | Clamp-Hose |
| 7 | 104-0790 | 2 | Bushing |
| 8 | 46-6550 | 1 | Fitting-HYD, 90° |
| 9 | 104-0791 | 2 | Pipe-Stand |
| 10 | 100-5522 | 1 | Hose ASM |
| 11 | 61-2790 | 1 | Filter-Screen |
| 12 | 105-2812 | 1 | Dipstick ASM |
| 13 | 94-8166 | 1 | O-Ring |
| 14 | 93-7498 | 1 | Plug-Plastic |
| 15 | 100-5528 | 1 | Hose-Suction |
| 16 | 104-7546 | 1 | Strainer-Tank |
| 16:1 | 340-136 | 1 | O-Ring |
| 17 | 354-79 | 1 | Cap-Dust |
| 18 | 86-5480 | 1 | Nipple-Test |
| 19 | 323-5 | 3 | Screw-HH |
| 20 | 340-54 | 1 | Elbow-45 ° |
| 20:1 | 237-22 | 1 | O-Ring |
| 20:2 | 237-78 | 1 | O-Ring |
| 21 | 3256-24 | 3 | Washer-Flat |
| 22 | 104-3509 | 1 | Fitting-HYD, 45° |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 22:1 | 237-146 | 1 | O-Ring |
| 22:2 | 340-65 | 1 | O-Ring |
| 23 | 100-5521 | 1 | Hose ASM |
| 24 | 340-109 | 1 | Fitting-HYD, Tee |
| 24:1 | 237-79 | 1 | O-Ring |
| 24:2 | 237-30 | 2 | O-Ring |
| 25 | 354-135 | 1 | Fitting-HYD, 90° |
| 25:1 | 237-42 | 1 | O-Ring |
| 26 | 340-4 | 2 | Adapter |
| 26:1 | 237-30 | 1 | O-Ring |
| 26:2 | 237-79 | 1 | O-Ring |
| 27 | 100-5558 | 1 | Manifold-Filter |
| 28 | 92-7526 | 1 | Fitting-HYD, 90° |
| 28:1 | 237-101 | 1 | O-Ring |
| 29 | 104-0728 | 1 | Hose-Filter |
| 30 | 3274-51 | 2 | Screw-HSH |
| 31 | 3296-42 | 2 | Nut-Lock, NI |
| 32 | 321-4 | 2 | Screw-HH |
| 33 | 2412-111 | 2 | Clamp |
| 34 | 100-5592 | 1 | Hose |
| 35 | 2412-108 | 1 | Clamp-Worm |
| 36 | 32128-33 | 2 | Nut-HF |




**Parts not listed in part list are not serviced separately**

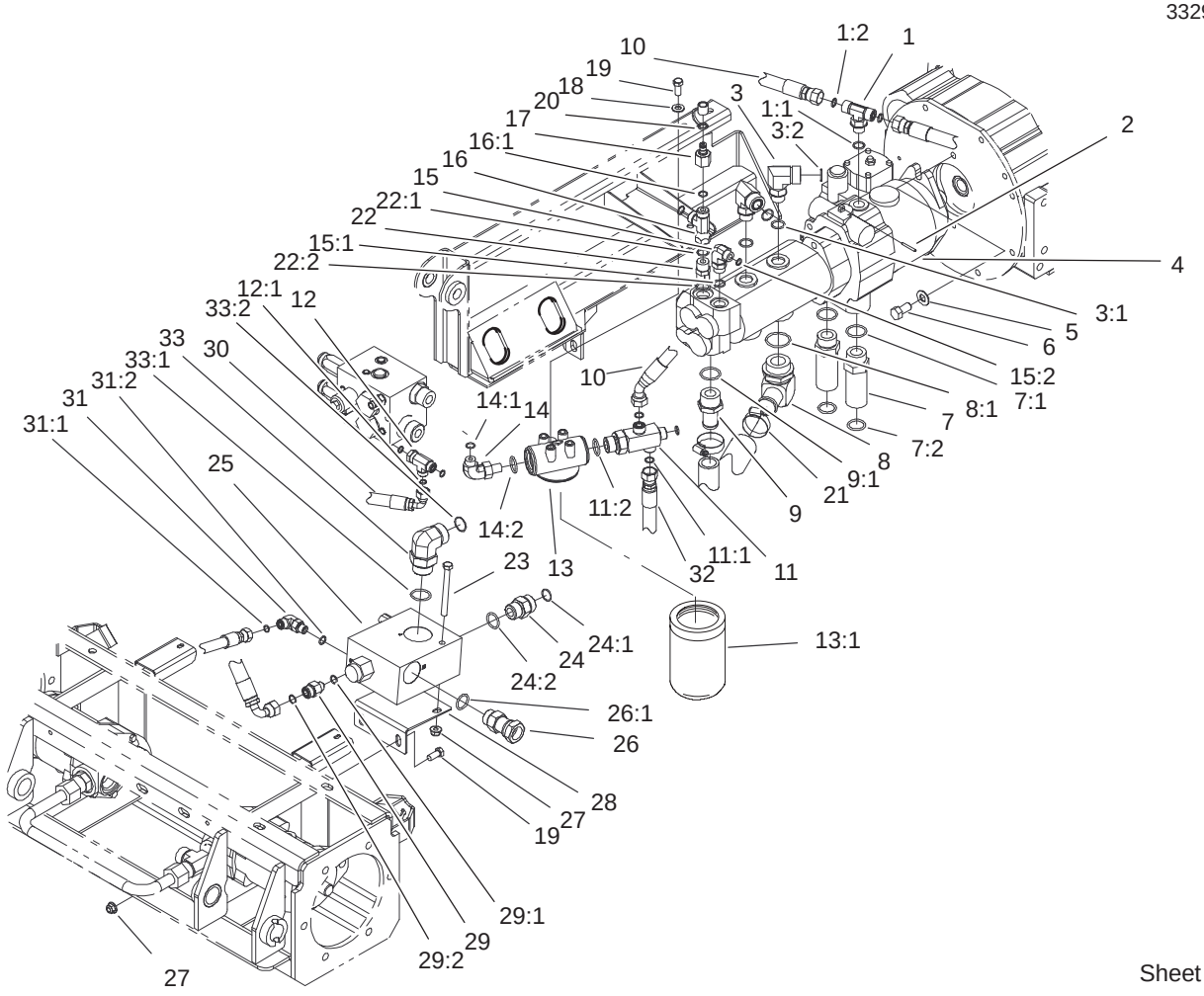
T-3771
Sheet No.:C4

# Filter Manifold Assembly No. 100-5558

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| ☆1 | | 1 | Manifold |
| 2 | 104-4292 | 1 | Valve-Check |
| 3 | 104-4293 | 1 | Valve-Check |
| 4 | 104-4294 | 1 | Valve-Check |
| 5 | 353-990 | 4 | Plug |
| 5:1 | 237-78 | 1 | O-Ring |
| 6 | 353-989 | 3 | Plug-Hex, Hollow |
| 6:1 | 237-42 | 1 | O-Ring |
| 7 | 354-137 | 3 | Plug |
| 7:1 | 237-86 | 1 | O-Ring |
| 8 | 94-2621 | 1 | Element-Filter |
| ☆9 | | 1 | Nipple-Filter |
| 10 | 354-70 | 1 | Plug-Hex, Hollow |
| 10:1 | 237-80 | 1 | O-Ring |
| 11 | 99-5504 | 2 | Seal Kit |
| 12 | 99-5503 | 1 | Seal Kit |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately



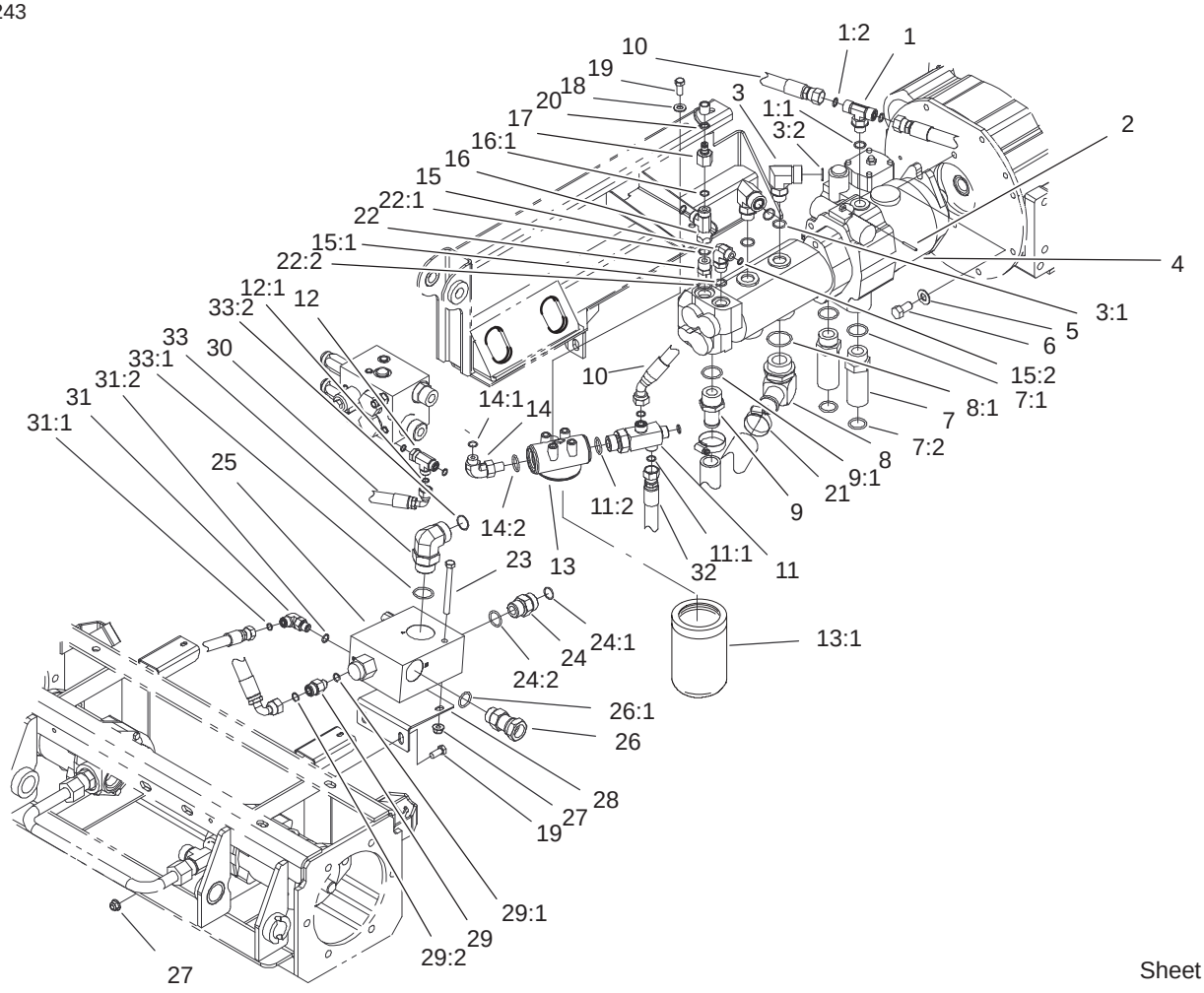

Sheet No.:21

# Pump Installation and Filter Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 340-157 | 1 | Fitting-HYD |
| 1:1 | 237-79 | 1 | O-Ring |
| 1:2 | 237-30 | 2 | O-Ring |
| 2 | 32121-77 | 1 | Pin-Roll |
| 3 | 340-16 | 2 | Fitting-HYD, 90° |
| 3:1 | 237-80 | 1 | O-Ring |
| 3:2 | 237-58 | 1 | O-Ring |
| ☆4 | | 1 | Pump ASM |
| 5 | 87-7270 | 2 | Washer-Thrust |
| 6 | 3213-1 | 2 | Screw-HH |
| 7 | 100-5565 | 2 | Fitting-HYD |
| 7:1 | 237-146 | 1 | O-Ring |
| 7:2 | 340-65 | 1 | O-Ring |
| 8 | 92-7526 | 1 | Fitting-HYD, 90° |
| 8:1 | 237-101 | 1 | O-Ring |
| 9 | 354-78 | 1 | Connector-Hose |
| 9:1 | 237-146 | 1 | O-Ring |
| 10 | 100-5521 | 1 | Hose ASM |
| 11 | 106-4318 | 1 | Fitting-Special |
| 11:1 | 237-30 | 3 | O-Ring |
| 11:2 | 237-81 | 1 | O-Ring |
| 12 | 340-115 | 1 | Fitting-Tee |
| 12:1 | 237-22 | 2 | O-Ring |
| 13 | 93-2242 | 1 | Oil Filter ASM |
| 13:1 | 75-1310 | 1 | Element-Filter |
| 14 | 340-131 | 1 | Elbow-90 ° |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 14:1 | 237-30 | 1 | O-Ring |
| 14:2 | 237-81 | 1 | O-Ring |
| 15 | 340-18 | 1 | Fitting-HYD, 90° |
| 15:1 | 237-79 | 1 | O-Ring |
| 15:2 | 237-22 | 1 | O-Ring |
| 16 | 340-104 | 1 | Tee-Fitting |
| 16:1 | 237-30 | 2 | O-Ring |
| 17 | 100-5616 | 1 | Fitting-HYD |
| 18 | 3256-24 | 2 | Washer-Flat |
| 19 | 323-5 | 4 | Screw-HH |
| 20 | 354-79 | 1 | Cap-Dust |
| 21 | 2412-111 | 2 | Clamp |
| 22 | 340-6 | 1 | Fitting-HYD, Straight |
| 22:1 | 237-30 | 1 | O-Ring |
| 22:2 | 237-80 | 1 | O-Ring |
| 23 | 323-42 | 1 | Screw-HH |
| 24 | 340-9 | 1 | Fitting-Straight |
| 24:1 | 237-58 | 1 | O-Ring |
| 24:2 | 237-81 | 1 | O-Ring |
| 25 | 105-4516 | 1 | Manifold-Traction |
| 26 | 106-2009 | 1 | Fitting-HYD, Swivel |
| 26:1 | 237-81 | 1 | O-Ring |
| 27 | 104-8301 | 3 | Nut-Flange, NI |
| 28 | 105-3232-03 | 1 | Bracket-Valve |
| 29 | 340-5 | 1 | Fitting-Straight |
| 29:1 | 237-42 | 1 | O-Ring |

☆ Not serviced separately

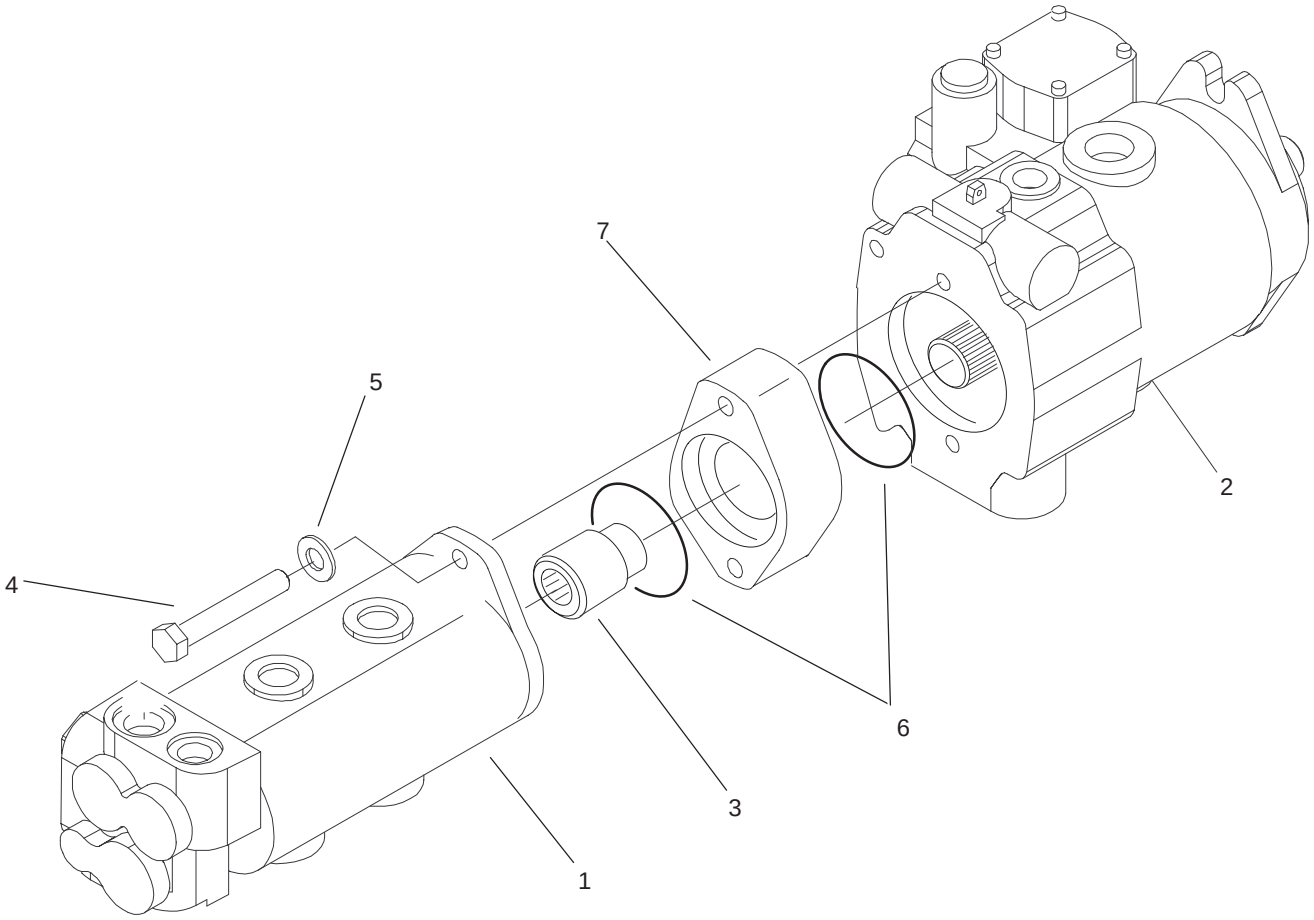



Sheet No.:21

# Pump Installation and Filter Assembly (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 29:2 | 237-30 | 1 | O-Ring |
| 30 | 66-8490 | 1 | HYD Hose ASM |
| 31 | 340-77 | 1 | Fitting-HYD, 90° |
| 31:1 | 237-22 | 1 | O-Ring |
| 31:2 | 237-42 | 1 | O-Ring |
| 32 | 95-3738 | 1 | HYD Hose ASM |
| 33 | 340-129 | 1 | Fitting-HYD, 90° |
| 33:1 | 237-146 | 1 | O-Ring |
| 33:2 | 340-65 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

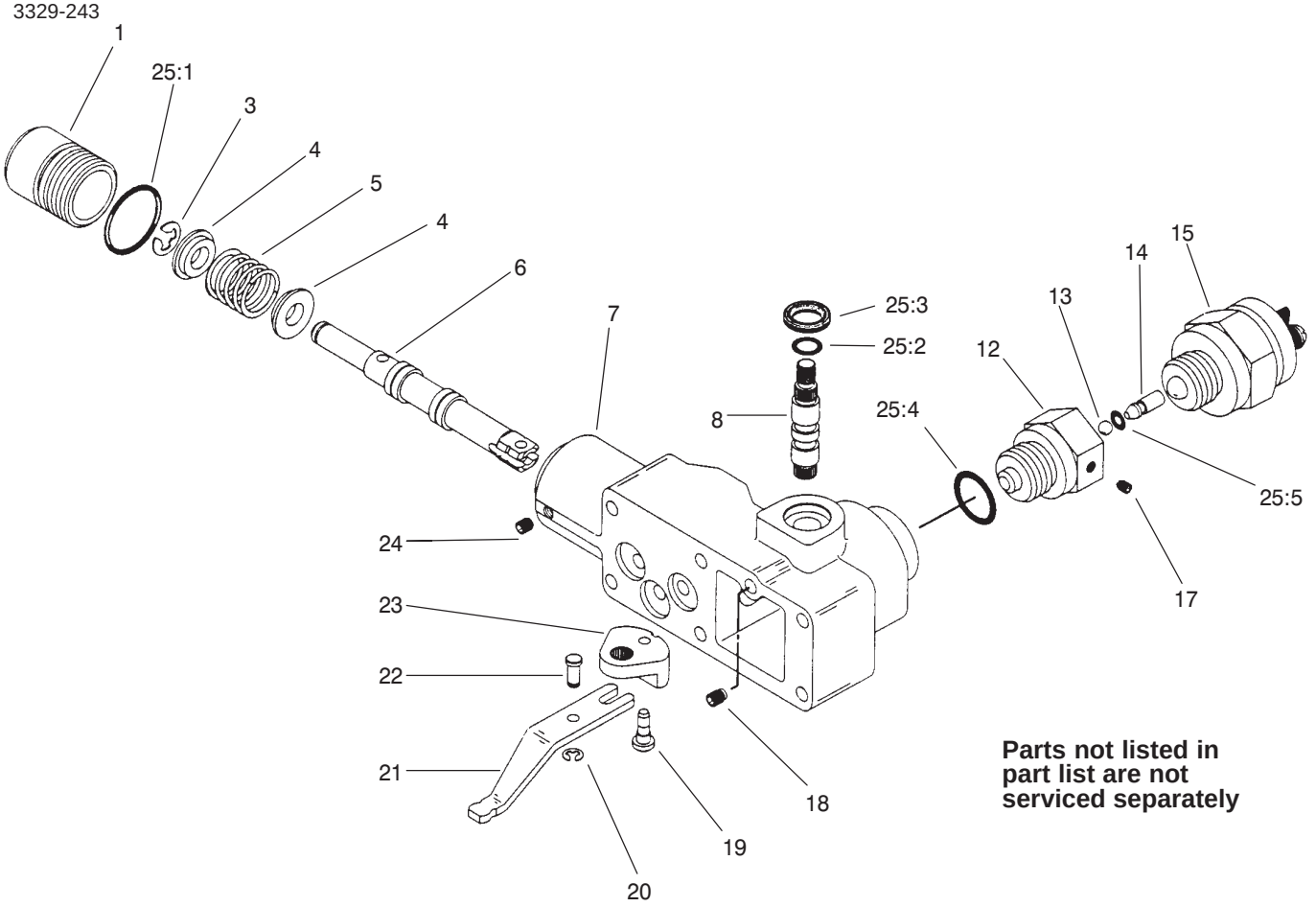



Sheet No.:C5

# Pump Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100-3051 | 1 | Gear Pump ASM |
| 2 | 105-4567 | 1 | Pump-Piston |
| 3 | 74-9030 | 1 | Coupler |
| 4 | 323-32 | 2 | Screw-HH |
| 5 | 60-3540 | 2 | Washer |
| 6 | 60-3520 | 2 | O-Ring |
| 7 | 99-5510 | 1 | Spacer |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




T–2119–1

Sheet No.:C8

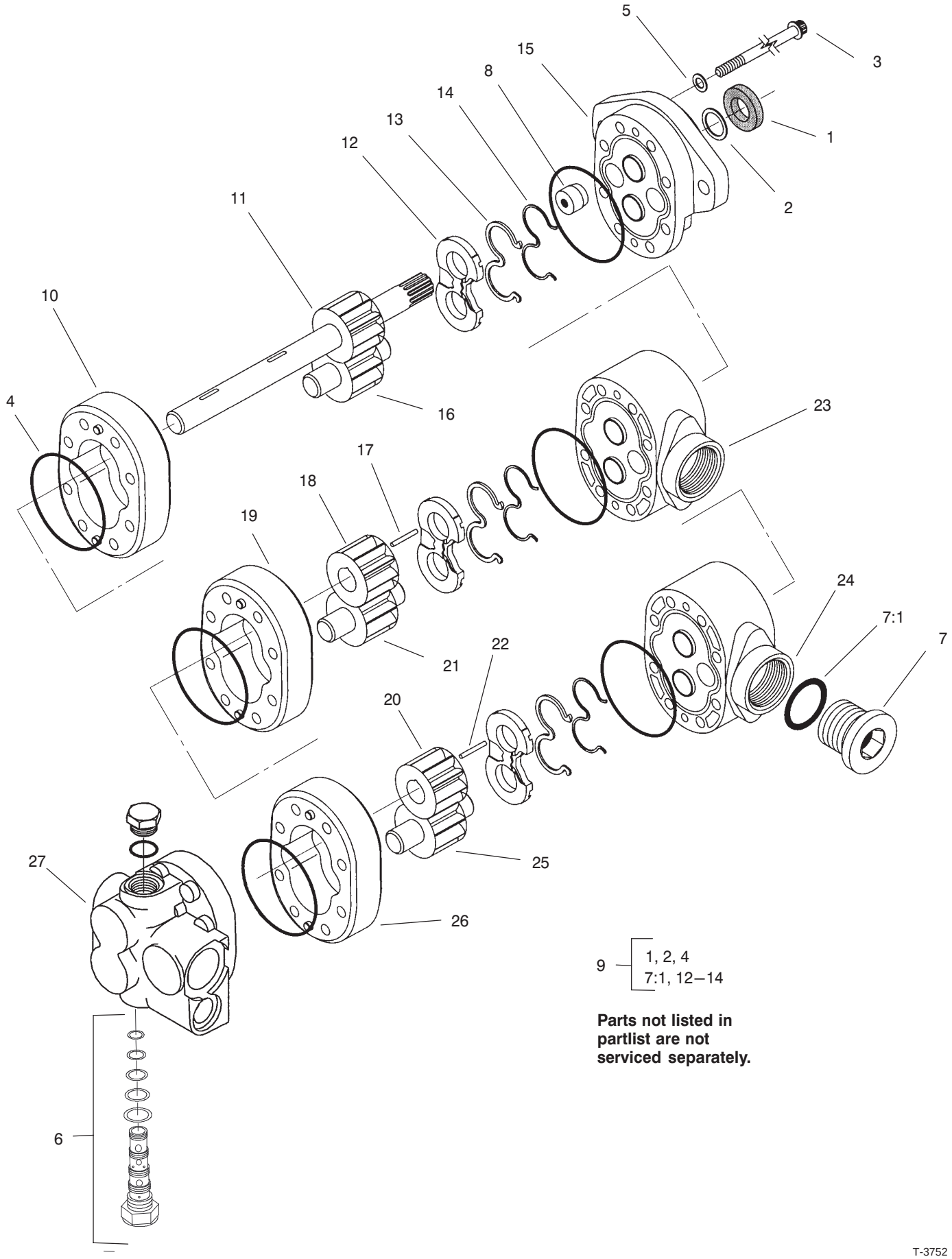
# Manual Servo Control Assembly No. 93-6306

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| ☆1 | | 1 | Plug |
| ☆3 | | 1 | Ring-Retaining |
| ☆4 | | 2 | Retainer-Spring |
| ☆5 | | 1 | Spring |
| ☆6 | | 1 | Valve-Spool |
| ☆7 | | 1 | Housing-Control |
| ☆8 | | 1 | Shaft-Input |
| ☆12 | | 1 | Adaptor |
| ☆13 | | 1 | Ball |
| ☆14 | | 1 | Pin |
| 15 | 94-3043 | 1 | Switch-Safety , Neutral |
| ☆17 | | 1 | Screw-Set |
| ☆18 | | 1 | Screw-Set |
| ☆19 | | 1 | Pin |
| ☆20 | | 1 | Ring-Retaining |
| ☆21 | | 1 | Link |
| ☆22 | | 1 | Pin-Dowel |
| ☆23 | | 1 | Crank-Bell |
| ☆24 | | 1 | Screw-Set |
| 25 | 94-3044 | 1 | Seal Kit |
| ☆25:1 | | 1 | O-Ring |
| ☆25:2 | | 1 | O-Ring |
| ☆25:3 | | 1 | Seal-Wiper |
| ☆25:4 | | 1 | O-Ring |
| ☆25:5 | | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately

# Gear Pump Assembly No. 100-3051




**Parts not listed in partlist are not serviced separately.**

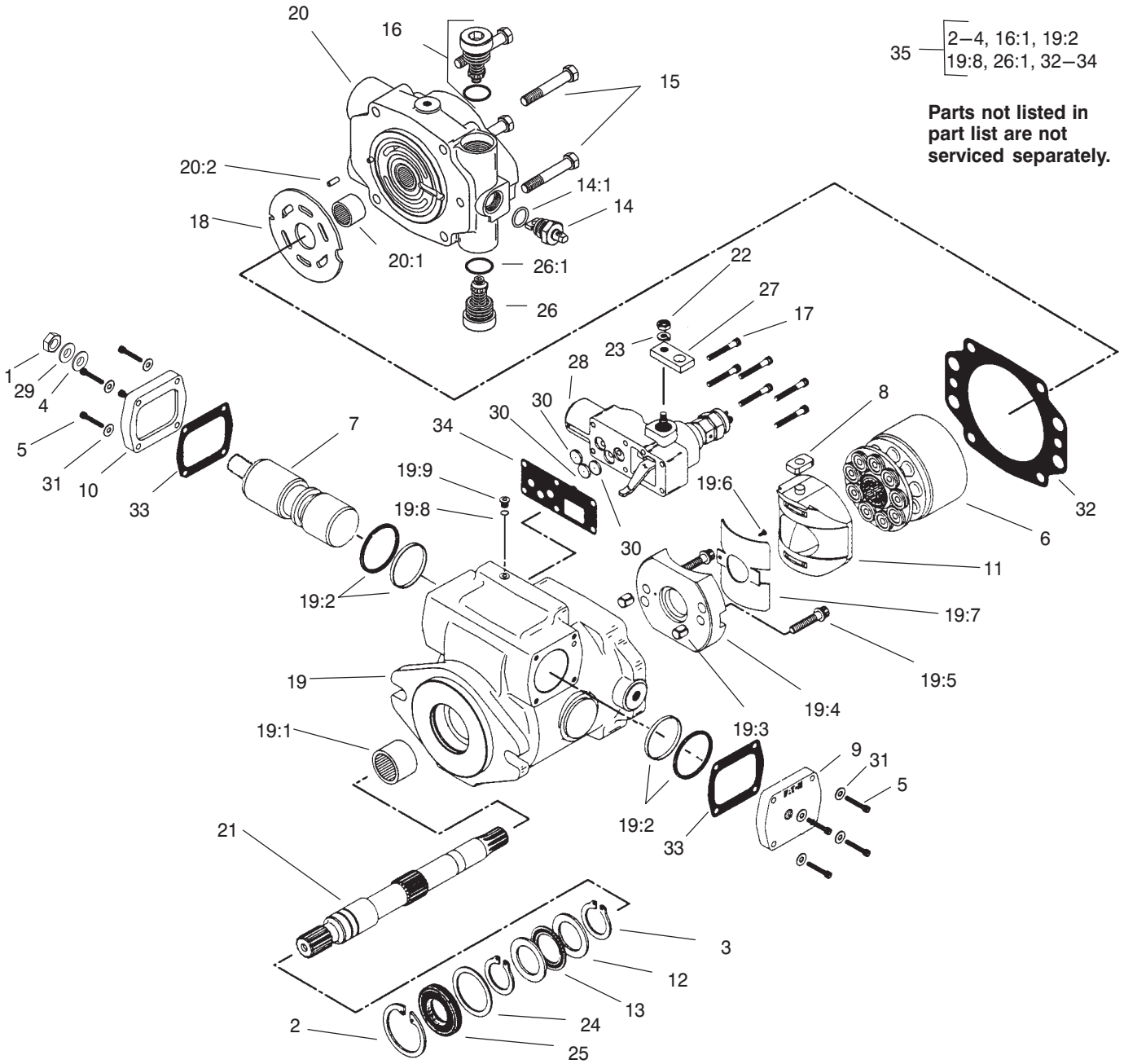
# Gear Pump Assembly No. 100-3051

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 49-2640 | 1 | Seal-Shaft |
| 2 | 60-5890 | 1 | Washer |
| 3 | 105-2867 | 8 | Capscrew |
| 4 | 105-2866 | 6 | O-Ring |
| 5 | 74-8920 | 4 | Washer-Copper |
| 6 | 105-2870 | 1 | Valve-Proportional |
| 7 | 94-3013 | 1 | Plug |
| ☆7:1 | | 1 | O-Ring |
| 8 | 94-3011 | 1 | Plug |
| 9 | 105-2868 | 1 | Seal Kit |
| ☆10 | | 1 | Body |
| ☆11 | | 1 | Drive Gear ASM |
| ☆12 | | 3 | Plate-W ear |
| ☆13 | | 3 | Seal-Pressure, Balance |
| ☆14 | | 3 | Gasket-Backup |
| ☆15 | | 1 | Front Plate ASM |
| ☆16 | | 1 | Gear-Idler |
| ☆17 | | 1 | Key |
| ☆18 | | 1 | Gear |
| ☆19 | | 1 | Body |
| ☆20 | | 1 | Gear |
| ☆21 | | 1 | Gear-Idler |
| ☆22 | | 1 | Key |
| ☆23 | | 1 | Plate-Adaptor |
| ☆24 | | 1 | Plate-Adaptor |
| ☆25 | | 1 | Gear-Idler |
| ☆26 | | 1 | Body |
| ☆27 | | 1 | Backplate ASM |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately

# Piston Pump Assembly No. 105-4567

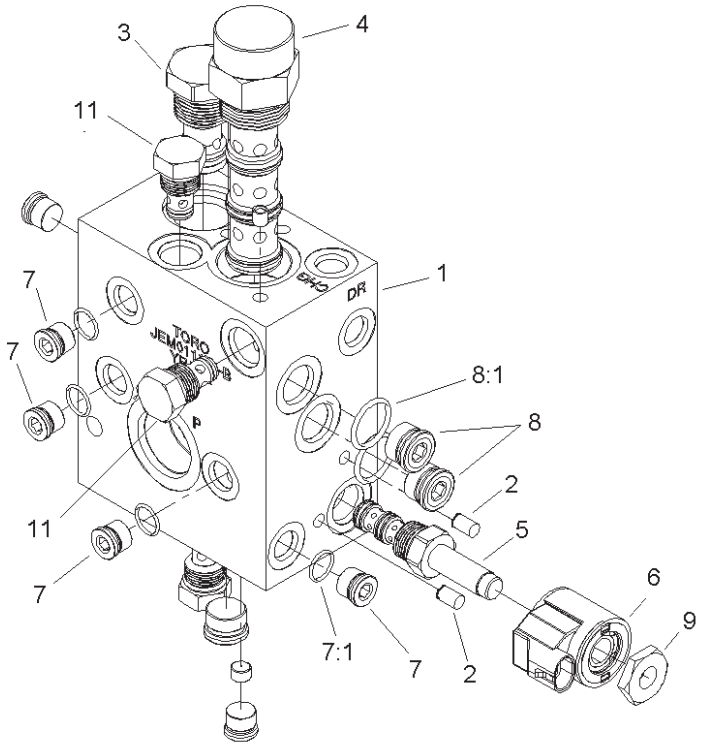


# Piston Pump Assembly No. 105-4567

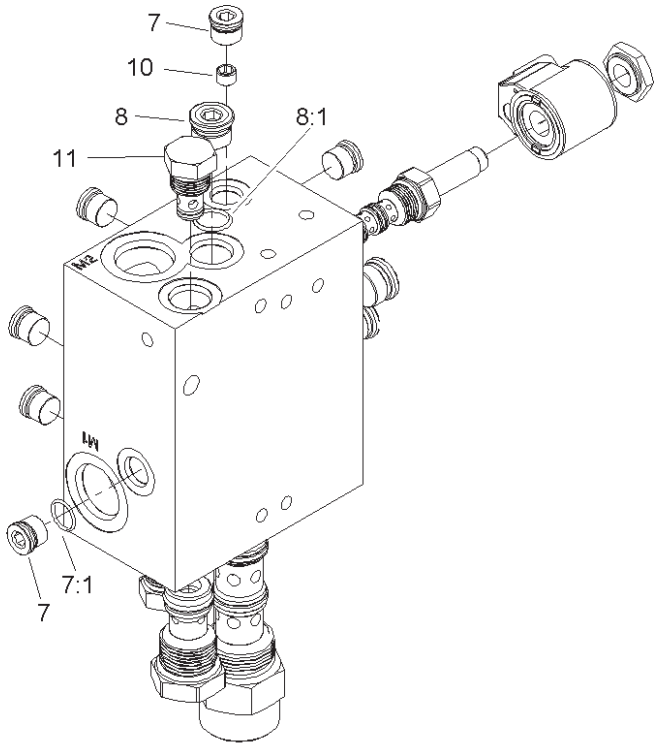
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 3220-2 | 1 | Nut |
| 2 | 76-7010 | 1 | Ring-Retaining |
| 3 | 76-7000 | 2 | Ring-Retaining |
| 4 | 94-3027 | 1 | Washer-Seal |
| 5 | 3274-81 | 8 | Screw-HSH |
| 6 | 93-6322 | 1 | Rotating Kit |
| 7 | 105-4572 | 1 | Servo Piston ASM |
| 8 | 94-3032 | 1 | Follower-Piston |
| 9 | 94-3033 | 1 | Plate-Cover |
| 10 | 94-3034 | 1 | Plate-Cover |
| 11 | 94-3026 | 1 | Camplate ASM |
| 12 | 76-6950 | 2 | Race-Thrust |
| 13 | 76-6960 | 1 | Bearing-Thrust |
| 14 | 105-2864 | 1 | Valve-Bypass |
| ☆14:1 | | 1 | O-Ring |
| 15 | 323-45 | 4 | Screw-HH |
| 16 | 105-2857 | 1 | Valve-Relief |
| ☆16:1 | | 1 | O-Ring |
| 17 | 3274-59 | 6 | Screw-HSH |
| 18 | 94-3022 | 1 | Plate-V alve |
| 19 | 105-2859 | 1 | Housing ASM |
| ☆19:1 | | 1 | Bearing |
| ☆19:2 | | 2 | Seal |
| ☆19:3 | | 2 | Dowel-Bushing |
| ☆19:4 | | 1 | Cradle ASM |
| ☆19:5 | | 2 | Screw |
| ☆19:6 | | 1 | Screw |
| ☆19:7 | | 1 | Bushing |
| ☆19:8 | | 1 | O-Ring |
| ☆19:9 | | 1 | Plug |
| 20 | 105-2860 | 1 | Backplate ASM |
| ☆20:1 | | 1 | Bearing |
| ☆20:2 | | 1 | Pin-Roll |
| 21 | 105-2861 | 1 | Shaft-Drive |
| 22 | 3217-5 | 1 | Nut-Hex |
| 23 | 3253-3 | 1 | Washer-Lock |
| 24 | 94-3007 | 1 | Washer |
| 25 | 105-3331 | 1 | Seal-Shaft |
| 26 | 105-2858 | 1 | Valve-Relief |
| ☆26:1 | | 1 | O-Ring |
| 27 | 105-2862 | 1 | Arm-Control |
| 28 | 93-6306 | 1 | Control ASM |
| 29 | 94-3030 | 1 | Washer |
| 30 | 105-2863 | 3 | Orifice |
| 31 | 3256-77 | 8 | Washer-Flat |
| ☆32 | | 1 | Gasket-Housing |
| ☆33 | | 2 | Gasket-Plate,Cover |
| ☆34 | | 1 | Gasket |
| 35 | 105-3349 | 1 | Seal Kit |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately




Manifold Front




Manifold Back

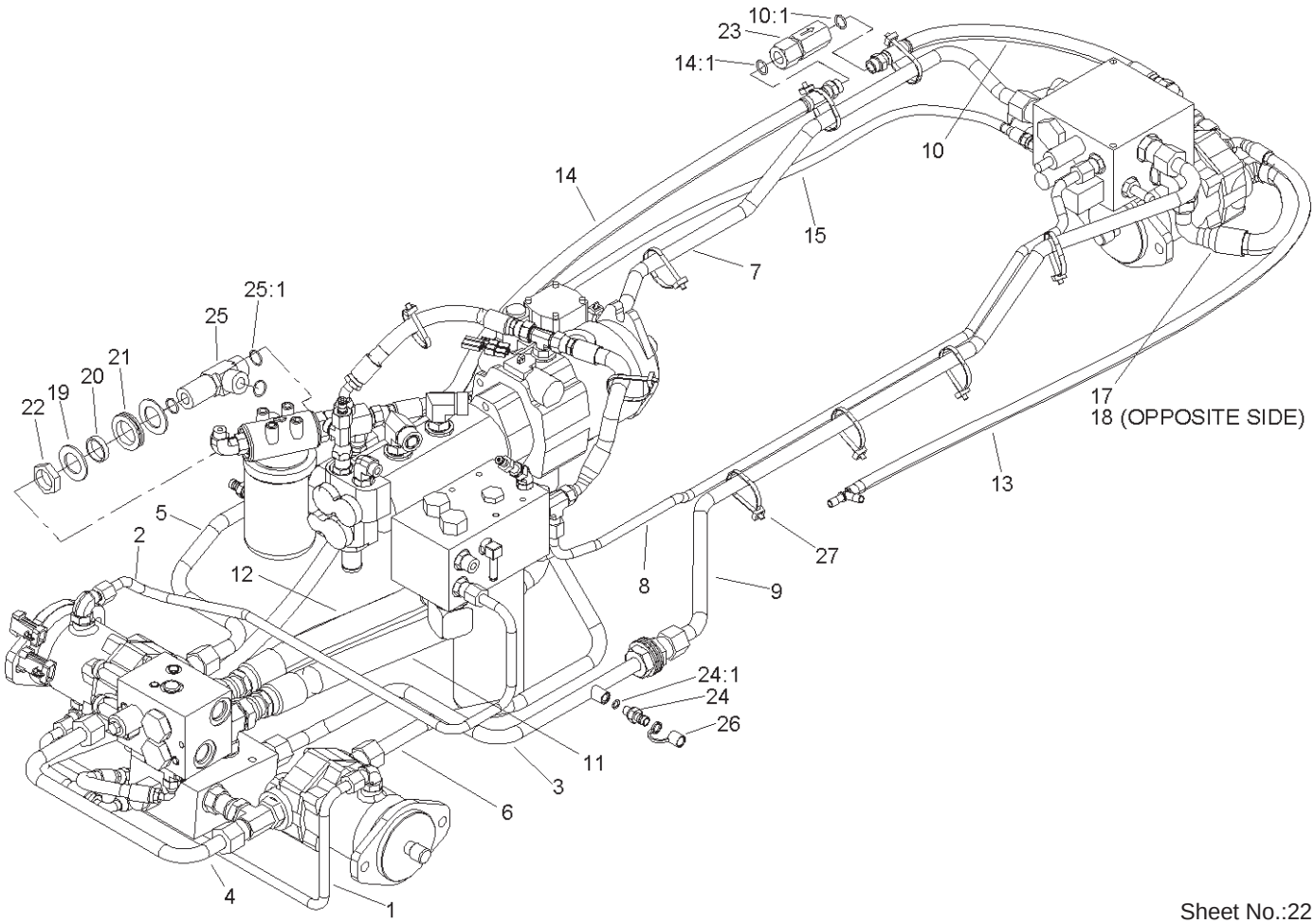
Sheet No.:C9

# Traction Manifold Assembly No. 105-4516

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| ☆1 | | 1 | Manifold |
| ☆2 | | 13 | Plug |
| 3 | 106-1997 | 1 | Flow Divider |
| 4 | 106-1996 | 1 | Valve-Piloted Directional |
| 5 | 106-1995 | 1 | Valve-3 Way |
| 6 | 105-9333 | 1 | E-Coil |
| 7 | 353-989 | 6 | Plug-Hex, Hollow |
| 7:1 | 237-42 | 1 | O-Ring |
| 8 | 353-988 | 3 | Plug-Hex, Hollow |
| 8:1 | 237-79 | 1 | O-Ring |
| 9 | 105-9332 | 1 | Nut-E Coil |
| 10 | 105-9326 | 1 | Orifice |
| 11 | 105-9321 | 3 | Valve-Check |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced separately

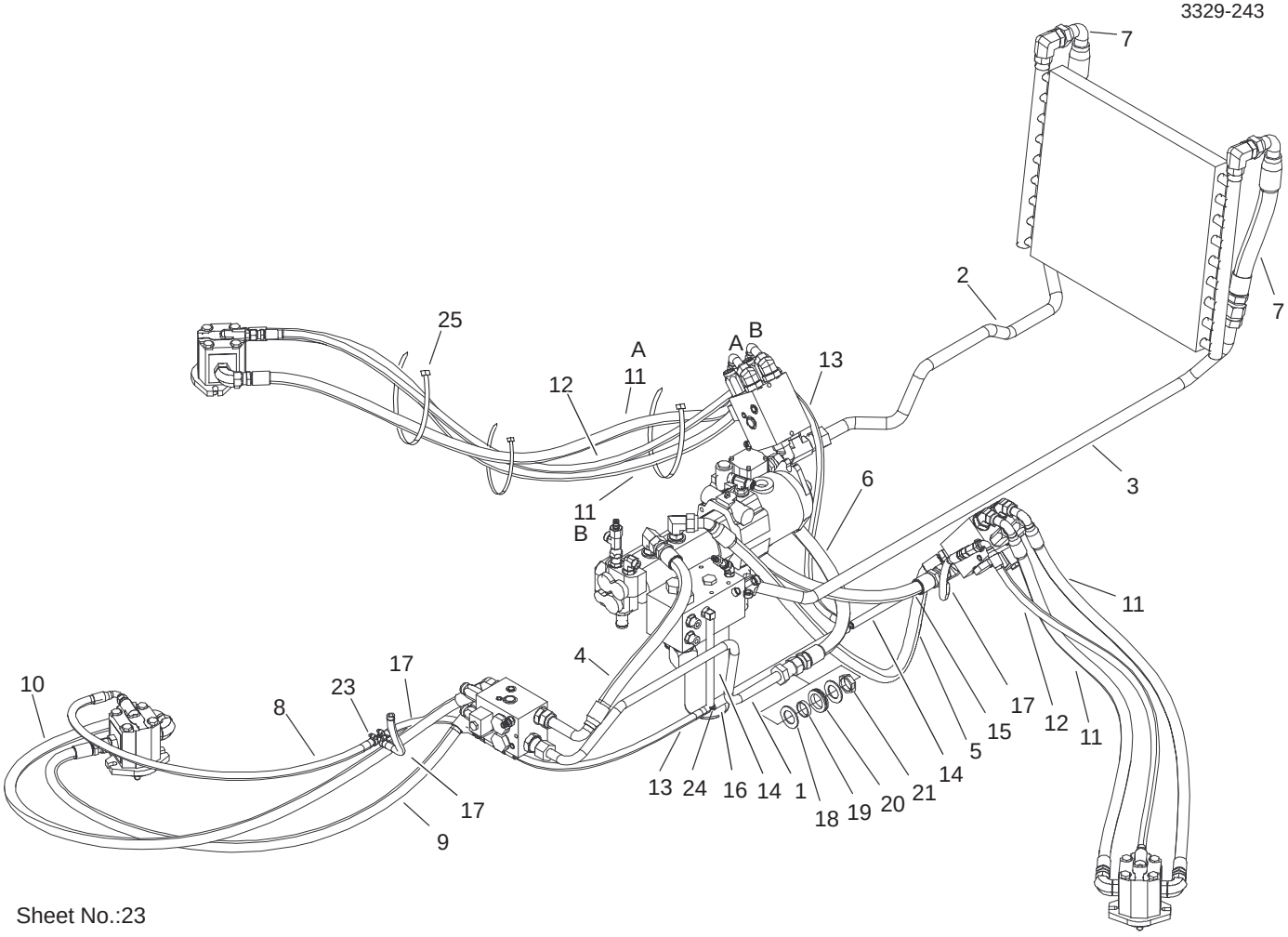



Sheet No.:22

# Traction Hydraulic Plumbing Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100-3095 | 1 | Tube-HYD, Drain & Motors |
| 2 | 104-0793 | 1 | Tube-HYD, Drain Motor & Filter |
| 3 | 105-3236 | 1 | Tube-HYD |
| 4 | 100-5574 | 1 | Tube-HYD, Motor Front |
| 5 | 104-3581 | 1 | Tube-HYD, Motor RH |
| 6 | 104-3582 | 1 | Tube-HYD, Motor LH |
| 7 | 100-5571 | 1 | Tube-HYD, RH Rear Traction |
| 8 | 105-4508 | 1 | Tube-HYD, Charge LH |
| 9 | 100-5572 | 1 | Tube-HYD, LH Rear Traction |
| 10 | 100-5617 | 1 | Hose ASM |
| 10:1 | 237-79 | 1 | O-Ring |
| 11 | 100-5524 | 1 | Hose ASM |
| 12 | 100-5525 | 1 | Hose ASM |
| 13 | 100-5614 | 1 | Hose ASM |
| 14 | 104-2237 | 1 | Hose ASM |
| 14:1 | 237-79 | 1 | O-Ring |
| 15 | 100-5643 | 1 | Hose ASM |
| 17 | 100-5579 | 1 | Hose ASM |
| 18 | 104-3502 | 1 | Hose ASM |
| 19 | 69-8910 | 4 | Washer |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 20 | 69-8900 | 2 | Spacer |
| 21 | 240-7 | 2 | Grommet-Rubber |
| 22 | 340-126 | 2 | Nut-Bulkhead |
| 23 | 100-5600 | 1 | Valve-Check |
| 24 | 354-77 | 2 | Fitting-Quick |
| 24:1 | 237-78 | 1 | O-Ring |
| 25 | 104-3558 | 1 | Fitting-Bulkhead |
| 25:1 | 237-58 | 3 | O-Ring |
| 26 | 354-79 | 2 | Cap-Dust |
| 27 | 3290-378 | 10 | Tie-Cable |

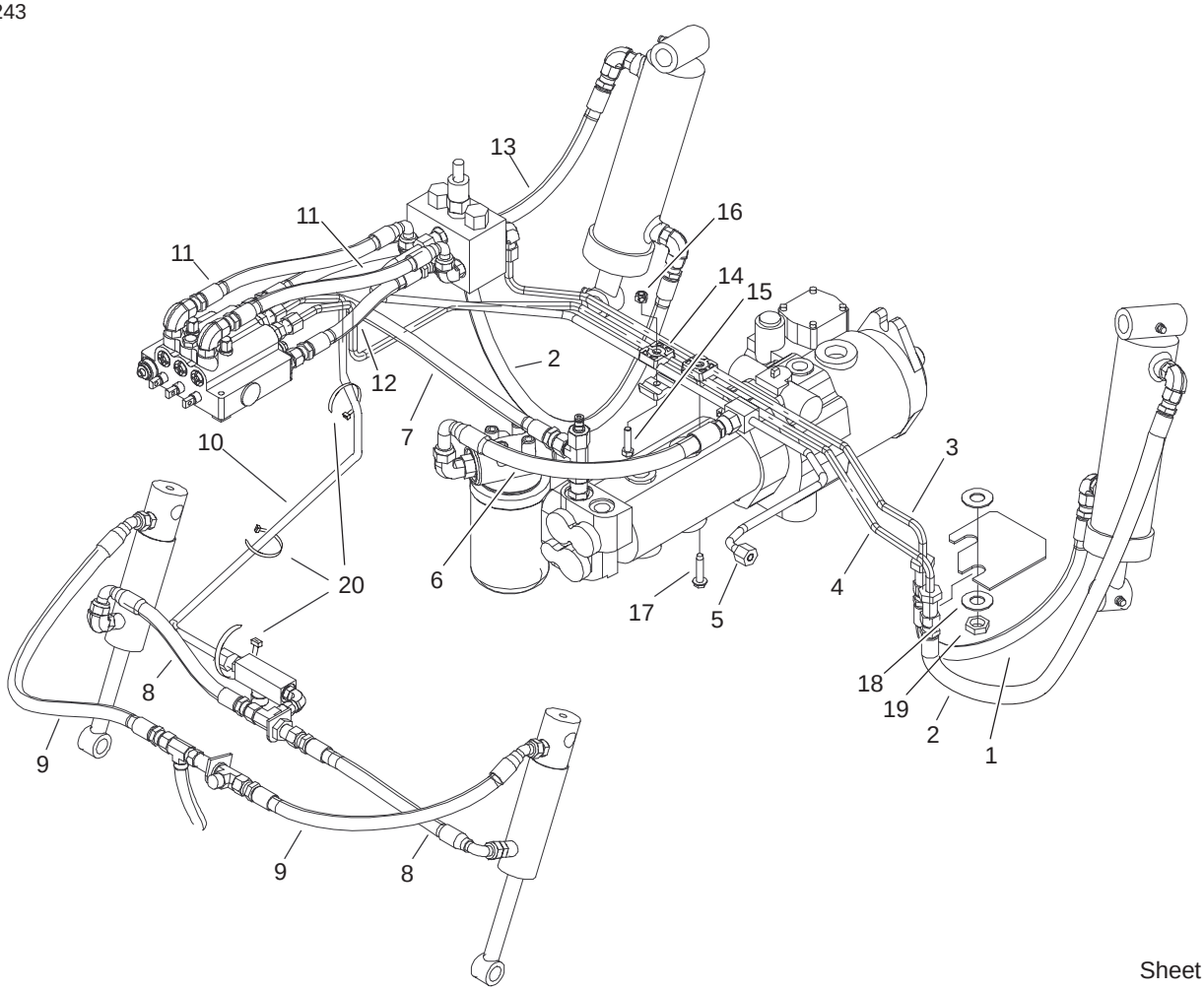



Sheet No.:23

# Power Take Off Hydraulic Plumbing Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-0795 | 1 | Tube-HYD, Front PTO |
| 2 | 104-0796 | 1 | Tube-HYD, RH Cooler |
| 3 | 104-0797 | 1 | Tube-HYD, LH Cooler |
| 4 | 95-0961 | 1 | Hose ASM |
| 5 | 104-2264 | 1 | Hose ASM |
| 6 | 104-2235 | 1 | Hose ASM |
| 7 | 100-5568 | 2 | Hose ASM |
| 8 | 104-2262 | 1 | Hose ASM |
| 9 | 104-2261 | 1 | Hose ASM |
| 10 | 104-2260 | 1 | Hose ASM |
| 11 | 104-2263 | 4 | Hose ASM |
| 12 | 104-2265 | 2 | Hose ASM |
| 13 | 100-5570 | 2 | Hose ASM |
| 14 | 100-5649 | 2 | Hose |
| 15 | 100-5645 | 1 | Hose ASM |
| 16 | 100-5607 | 1 | Hose |
| 17 | 100-5641 | 3 | Hose ASM |
| 18 | 69-8910 | 2 | Washer |
| 19 | 69-8900 | 1 | Spacer |
| 20 | 240-7 | 1 | Grommet-Rubber |
| 21 | 340-126 | 1 | Nut-Bulkhead |
| 23 | 2412-36 | 13 | Clamp-Hose |
| 24 | 354-107 | 4 | Fitting-HYD, Tee |
| 25 | 3290-379 | 9 | Tie-Cable |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|



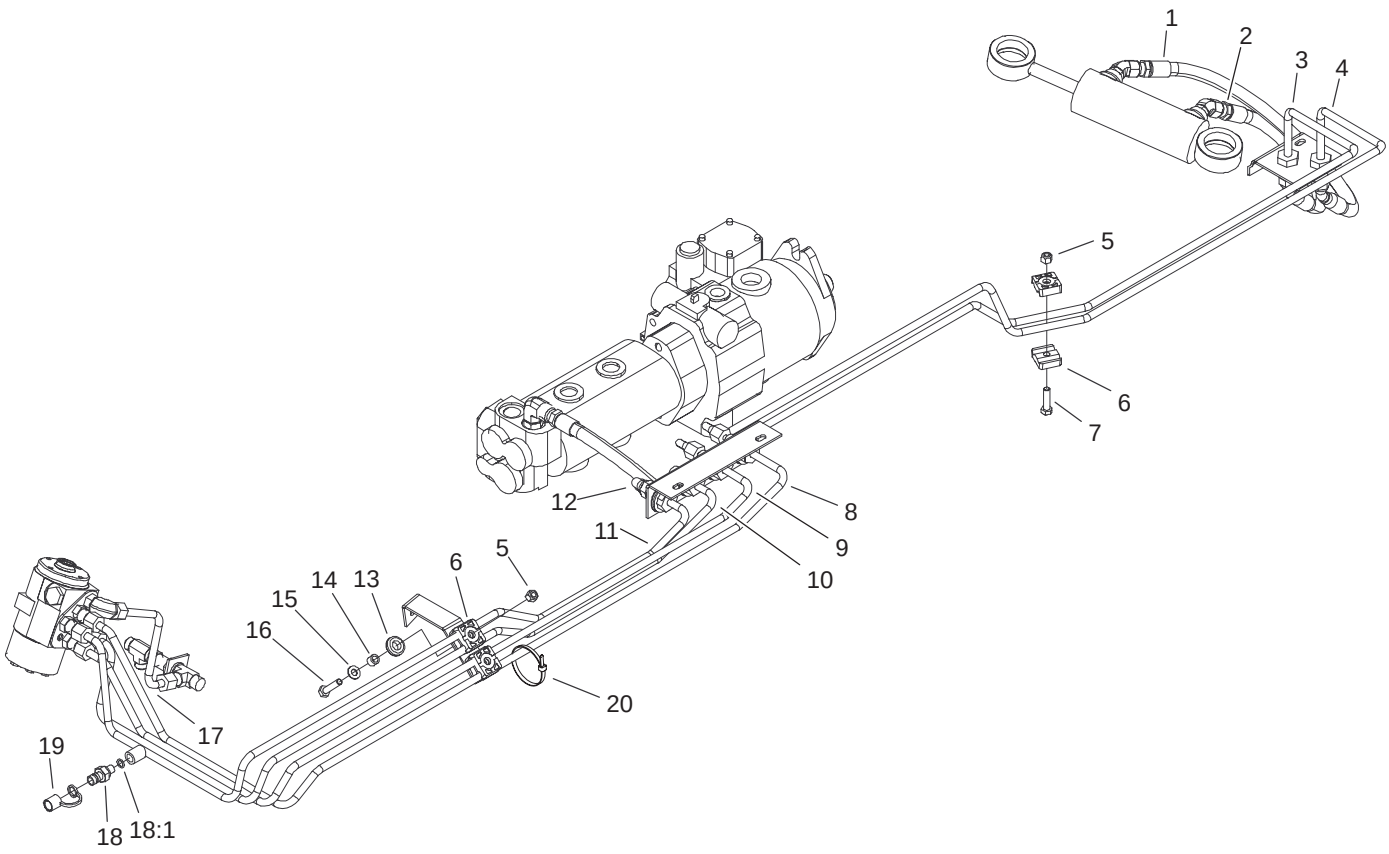

Sheet No.:24

# Lift Arm Hydraulic Plumbing Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100-5629 | 1 | Hose ASM |
| 2 | 100-5630 | 2 | Hose ASM |
| 3 | 100-3087 | 1 | Tube-HYD, Left Return |
| 4 | 100-3088 | 1 | Tube-HYD, Lift |
| 5 | 100-3089 | 1 | Tube-HYD, Charge |
| 6 | 83-9600 | 1 | Hose ASM |
| 7 | 104-2239 | 1 | Hose ASM |
| *7:1 | 237-79 | 1 | O-Ring |
| 8 | 104-2234 | 2 | Hose ASM |
| 9 | 92-7595 | 2 | Hose ASM |
| 10 | 105-7371 | 1 | Tube-HYD |
| 11 | 104-2240 | 2 | Hose ASM |
| 12 | 100-5589 | 1 | Hose ASM |
| 13 | 100-5631 | 1 | Hose ASM |
| 14 | 56-7973 | 4 | Clamp-T ube |
| 15 | 322-6 | 1 | Screw-HH |
| 16 | 3296-29 | 1 | Nut-Lock, NI |
| 17 | 32144-57 | 1 | Screw |
| 18 | 69-8940 | 4 | Washer |
| 19 | 340-70 | 2 | Nut-Lock |
| 20 | 3290-378 | 5 | Tie-Cable |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

* Not illustrated

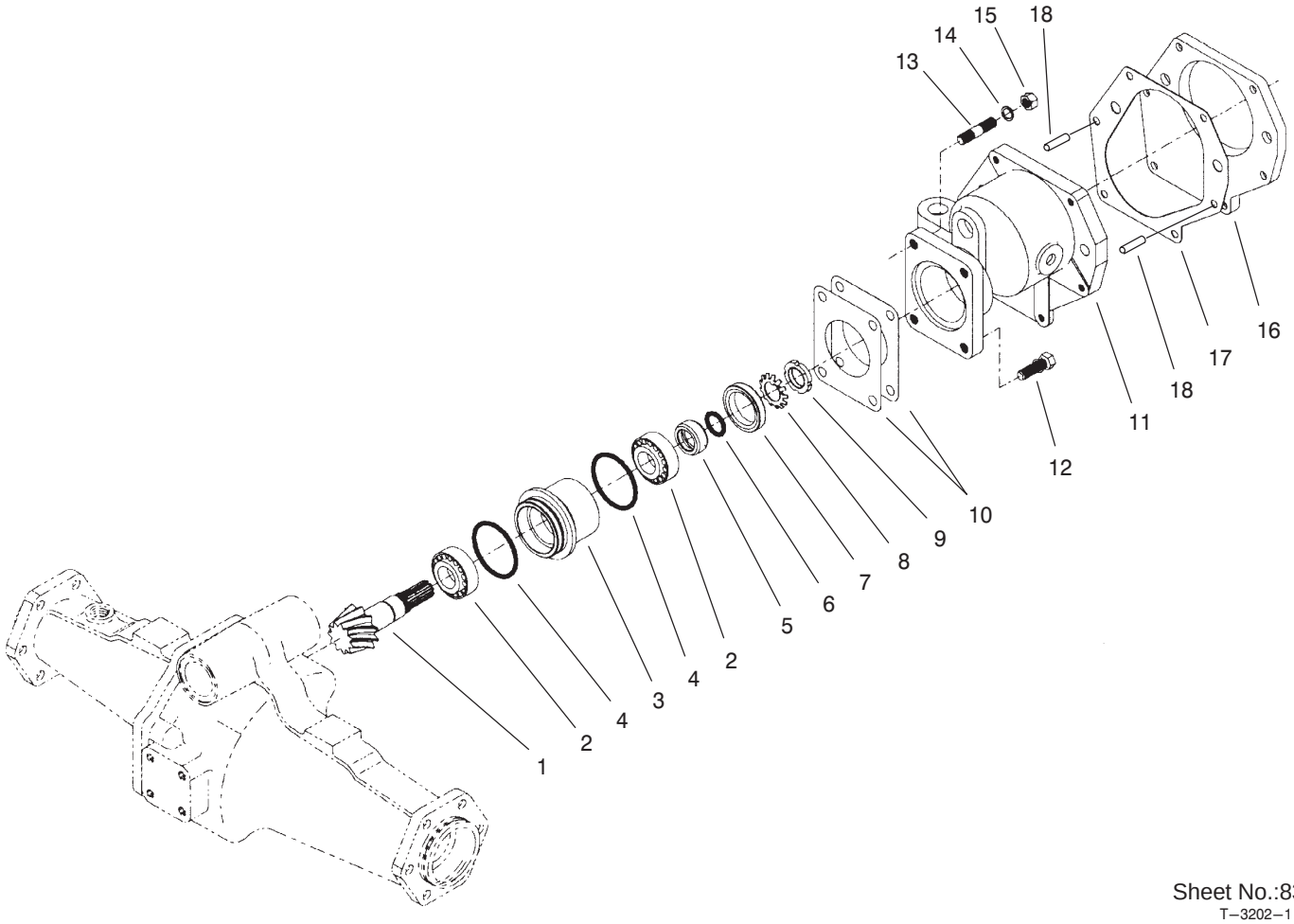



Sheet No.:25

# Steering Hydraulic Plumbing Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 92-7538 | 1 | Hose ASM |
| 2 | 92-7539 | 1 | Hose ASM |
| 3 | 100-5576 | 1 | Tube-HYD, RH Rear Steering |
| 4 | 100-5575 | 1 | Tube-HYD, LH Rear Steering |
| 5 | 104-8300 | 3 | Nut-Flange, NI |
| 6 | 56-7973 | 6 | Clamp-T ube |
| 7 | 3234-36 | 1 | Screw-HHF |
| 8 | 100-3091 | 1 | Tube-HYD, LH Front Steering |
| 9 | 100-3092 | 1 | Tube-HYD, RH Front Steering |
| 10 | 100-3093 | 1 | Tube-HYD, Beyond Power Steering |
| 11 | 100-3090 | 1 | Tube-HYD, Pressure Steering |
| 12 | 69-5440 | 1 | Hose ASM |
| 13 | 93-5108 | 2 | Grommet-Rubber |
| 14 | 93-5109 | 2 | Spacer |
| 15 | 3256-71 | 2 | Washer-Flat |
| 16 | 322-8 | 2 | Screw-HH |
| 17 | 100-5588 | 1 | Tube-HYD, Steer & Drain |
| 18 | 354-77 | 1 | Fitting-Quick |
| 18:1 | 237-78 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 19 | 354-79 | 1 | Cap-Dust |
| 20 | 3290-378 | 2 | Tie-Cable |

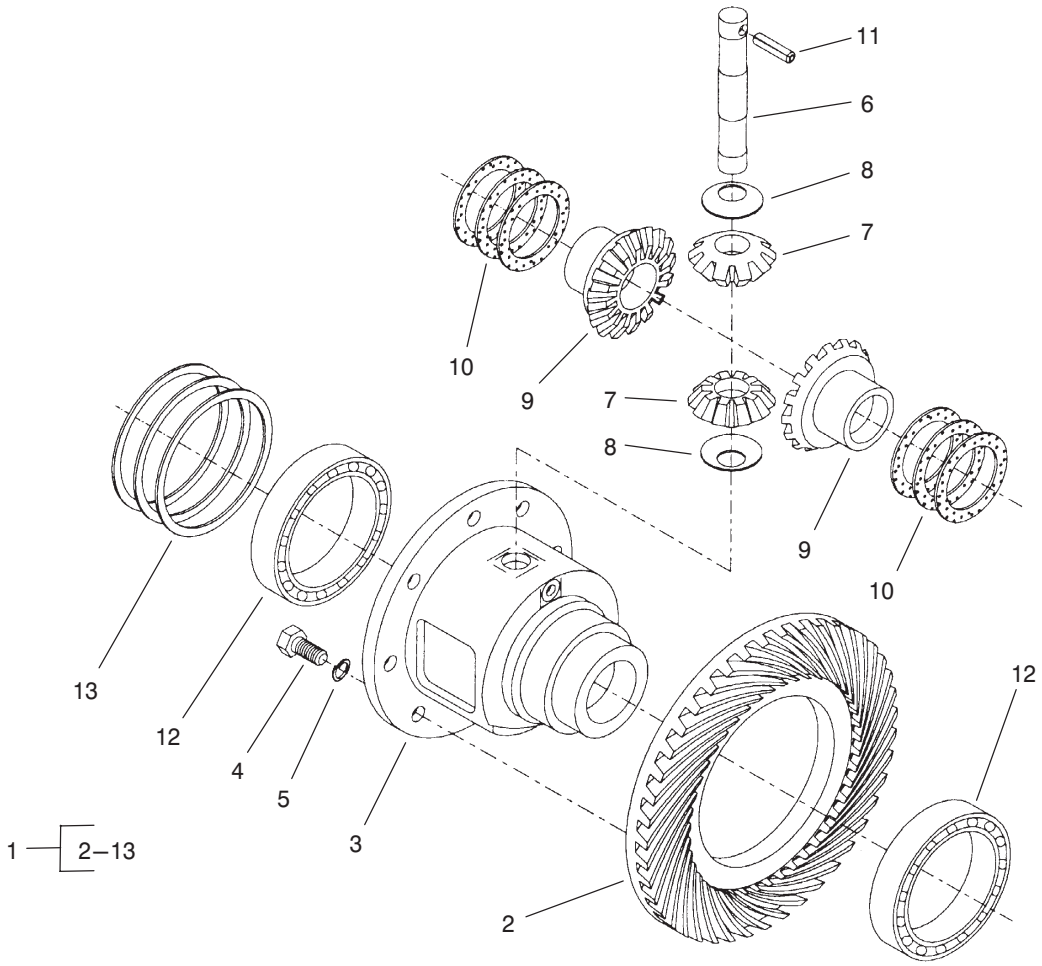



Sheet No.:83
T–3202–1

# Bevel Pinion Shaft Assembly
# Rear Axle Assembly No. 100-3784

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100-2555 | 1 | Ring And Pinion Matched Set |
| 2 | 99-7570 | 2 | Bearing-Taper Roller |
| 3 | 95-7534 | 1 | Case-Bearing |
| 4 | 99-7571 | 2 | O-Ring |
| 5 | 99-7572 | 1 | Collar-Oil Seal |
| 6 | 99-7573 | 1 | O-Ring |
| 7 | 99-7574 | 1 | Seal-Oil |
| 8 | 99-7559 | 1 | Washer-Lock |
| 9 | 99-7560 | 1 | Nut-Lock |
| 10 | 99-7550 | 2 | Shim 0.1 |
| 10 | 99-7551 | 2 | Shim 0.2 |
| 11 | 95-7533 | 1 | Case-Gear |
| 12 | 99-7575 | 2 | Bolt |
| 13 | 100-2556 | 2 | Stud |
| 14 | 99-7527 | 2 | Washer-Spring |
| 15 | 99-7526 | 2 | Nut |
| 16 | 95-7541 | 1 | Plate-Cover |
| 17 | 95-7540 | 1 | Gasket |
| 18 | 104-2353 | 2 | Pin-Dowel |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|



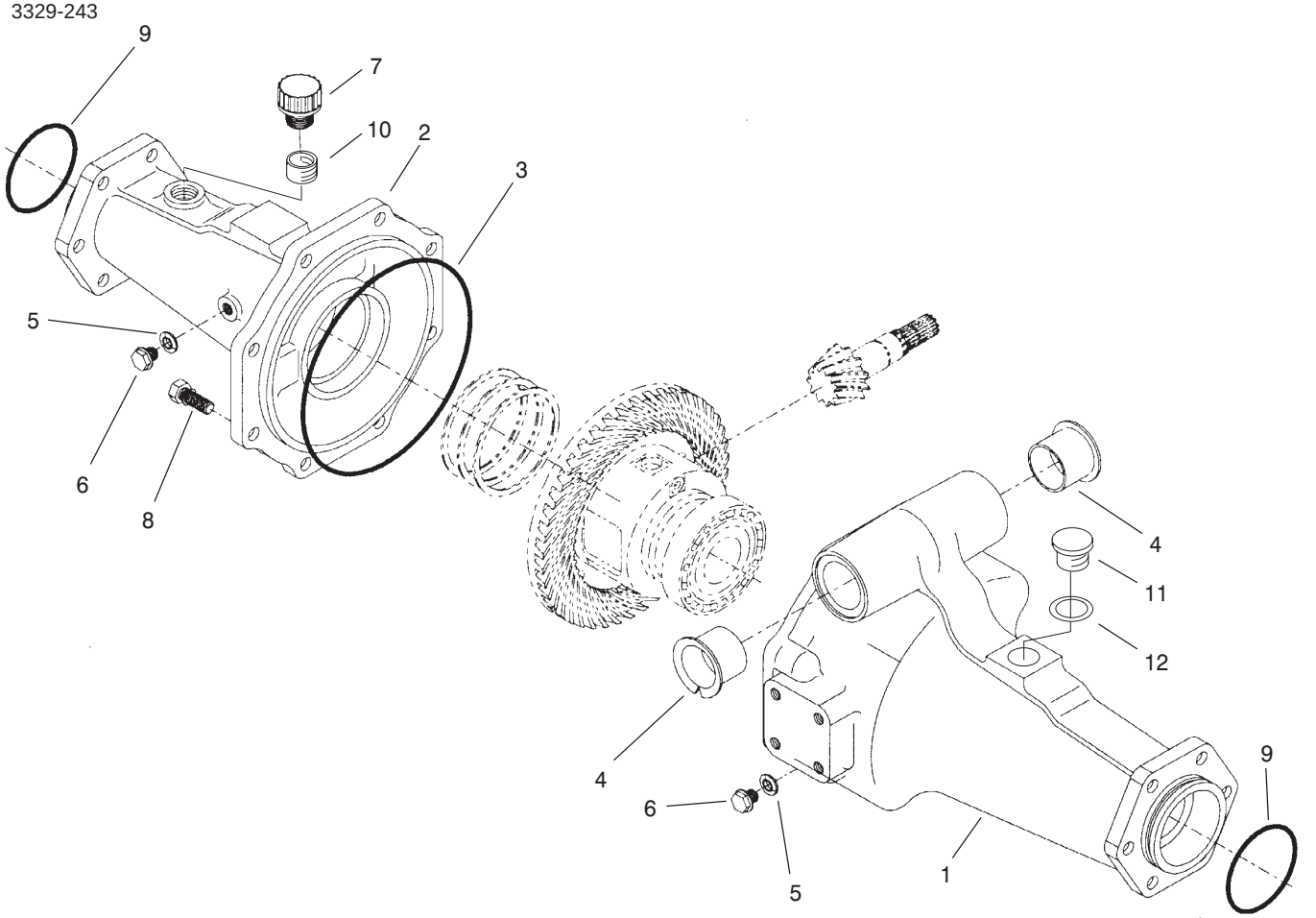

Sheet No.:84

T–3203–1

# Differential Assembly
# Rear Axle Assembly No. 100-3784 (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 95-7503 | 1 | Differential ASM |
| 2 | 100-2555 | 1 | Ring And Pinion Matched Set |
| 3 | 95-7502 | 1 | Case-Dif ferential |
| 4 | 99-7576 | 8 | Bolt |
| 5 | 99-7577 | 8 | Washer-Spring |
| 6 | 99-7578 | 1 | Shaft-Dif ferential |
| 7 | 99-7579 | 2 | Pinion-Dif ferential |
| 8 | 99-7580 | 2 | Washer-Dif ferential |
| 9 | 99-7581 | 2 | Gear-Dif ferential |
| 10 | 99-7582 | 2 | Washer-Dif ferential |
| 10 | 99-7583 | 2 | Washer-Dif ferential |
| 10 | 99-7584 | 2 | Washer-Dif ferential |
| 11 | 99-7588 | 1 | Pin-Spring |
| 12 | 99-7562 | 2 | Bearing-Ball |
| 13 | 99-7585 | 2 | Shim 0.1 |
| 13 | 99-7586 | 2 | Shim 0.2 |
| 13 | 99-7587 | 2 | Shim 0.4 |

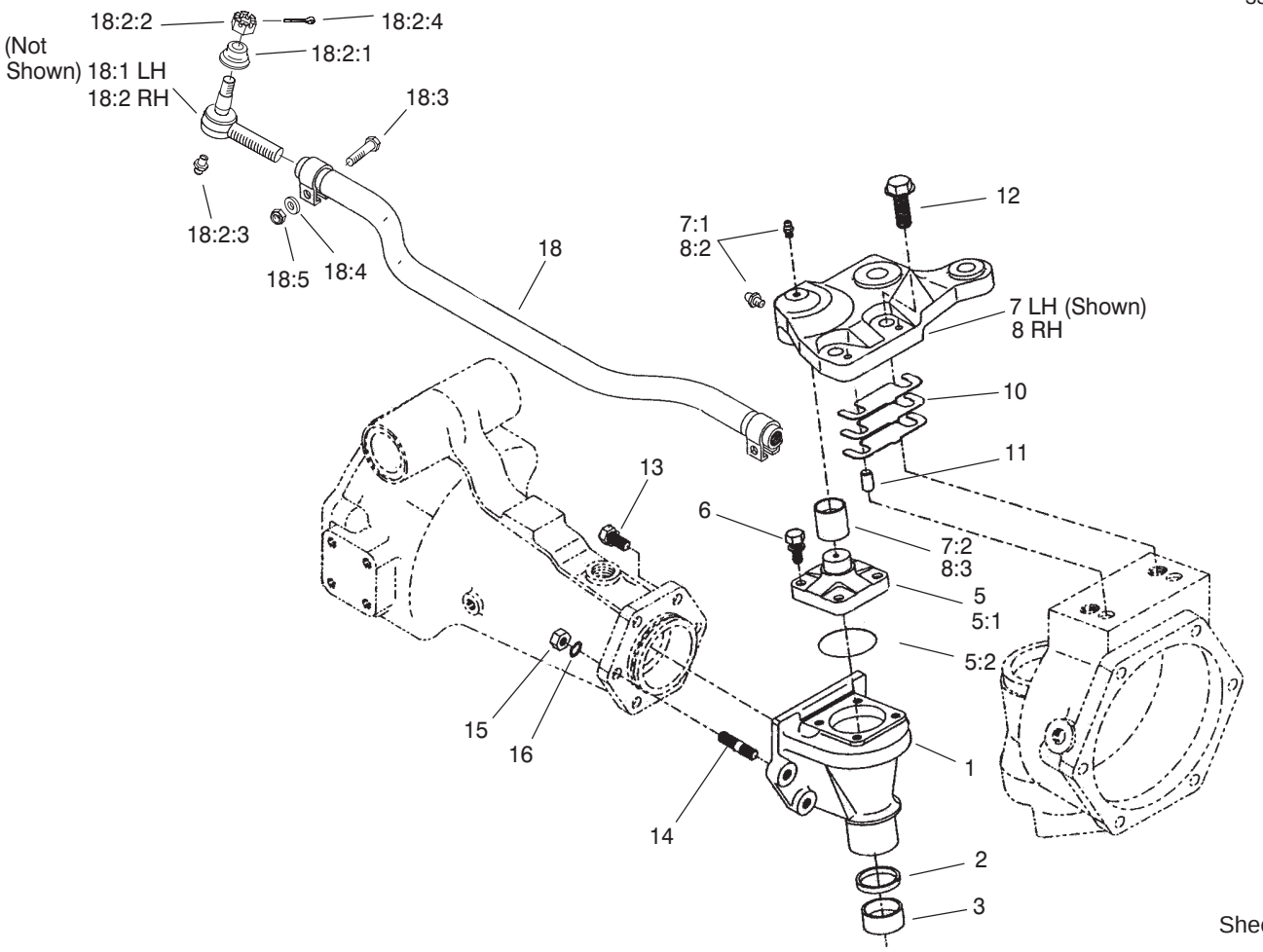
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




# Axle Support Assembly
# Rear Axle Assembly No. 100-3784 (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 95-7508 | 1 | Support-Axle |
| 2 | 95-7506 | 1 | Support-Axle |
| 3 | 95-7507 | 1 | O-Ring |
| 4 | 95-7537 | 2 | Bushing-Flanged |
| 5 | 99-7590 | 2 | Washer-Seal |
| 6 | 99-7589 | 2 | Plug |
| 7 | 99-7591 | 1 | Oil Plug ASM |
| 8 | 99-7592 | 8 | Bolt |
| 9 | 99-7593 | 2 | O-Ring |
| 10 | 104-2377 | 1 | Extension, Vent |
| 11 | 104-8643 | 1 | Plug |
| 12 | 104-8644 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




Sheet No.:86
T-3503

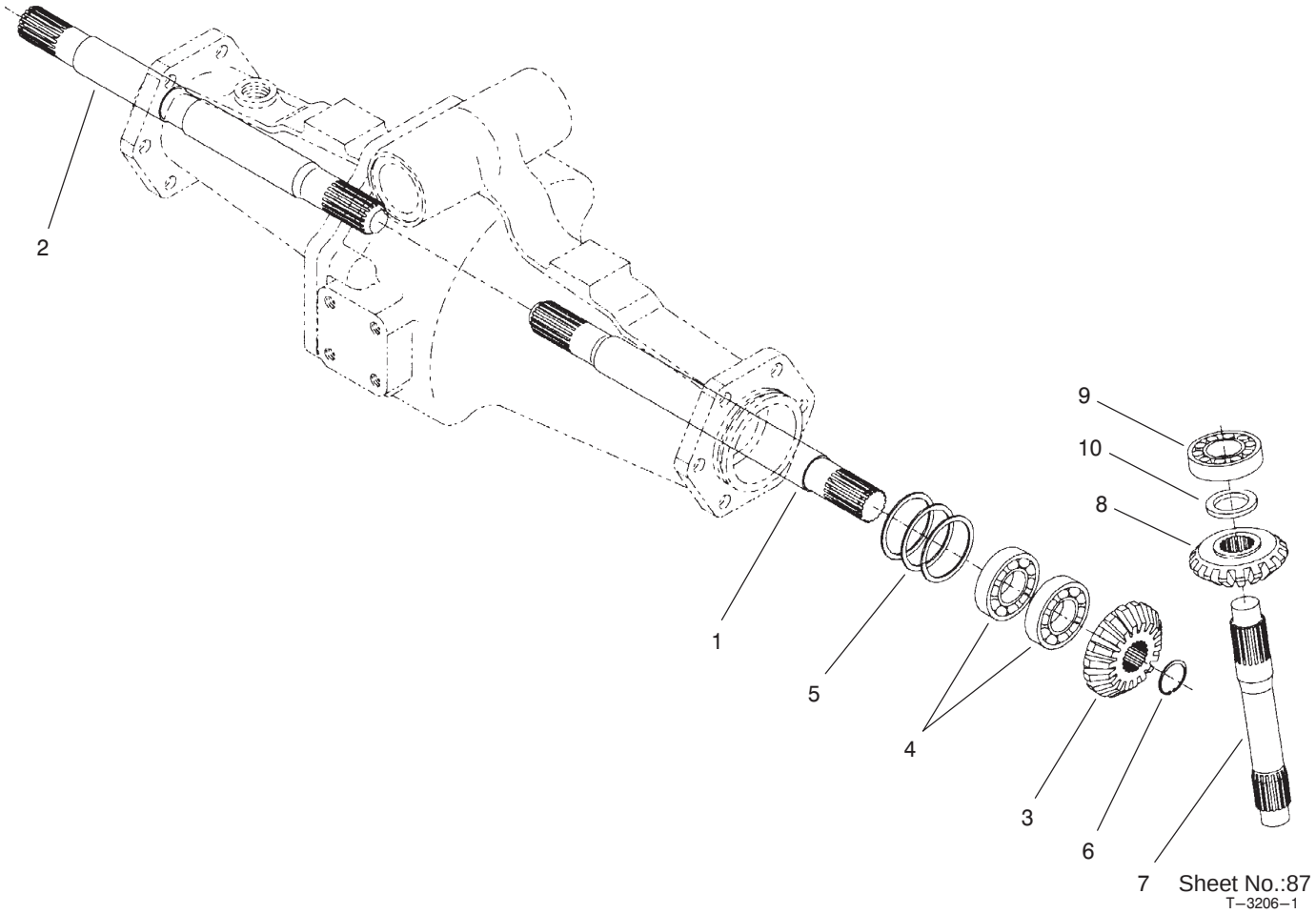
# Bevel Gear Case Assembly
# Rear Axle Assembly No. 100-3784 (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 95-7538 | 2 | Case-Bevel Gear |
| 2 | 100-2557 | 2 | Seal-Oil |
| 3 | 104-2378 | 2 | Bushing |
| 5 | 104-2376 | 2 | Knuckle ASM |
| 5:1 | 104-2373 | 1 | Knuckle |
| 5:2 | 104-2372 | 1 | O-Ring |
| 6 | 104-2374 | 8 | Bolt |
| 7 | 100-3768 | 1 | LH Steering Arm ASM |
| 7:1 | 302-5 | 2 | Fitting-Grease |
| 7:2 | 104-8634 | 1 | Bushing |
| 8 | 100-3766 | 1 | RH Steering Arm ASM |
| 8:2 | 302-5 | 2 | Fitting-Grease |
| 8:3 | 104-8634 | 1 | Bushing |
| 10 | 95-7547 | 2 | Shim 0.1 |
| 10 | 95-7548 | 2 | Shim 0.2 |
| 10 | 95-7549 | 2 | Shim 0.4 |
| 11 | 99-7597 | 4 | Pin-Dowel |
| 12 | 104-2375 | 4 | Bolt |
| 13 | 99-7599 | 8 | Bolt |
| 14 | 99-7525 | 4 | Stud |
| 15 | 99-7526 | 4 | Nut |
| 16 | 99-7527 | 4 | Washer-Spring |
| 18 | 100-3762 | 1 | Tie Rod ASM |
| *18:1 | 100-3851 | 1 | LH Tie Rod End ASM |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| *18:1:1 | 100-3853 | 1 | Cover-Dust |
| *18:1:2 | 100-3854 | 1 | Nut-Castle |
| *18:1:3 | 302-5 | 1 | Fitting-Grease |
| *18:1:4 | 3272-11 | 1 | Pin-Cotter |
| 18:2 | 100-3852 | 1 | RH Tie Rod End ASM |
| 18:2:1 | 100-3853 | 1 | Cover-Dust |
| 18:2:2 | 100-3854 | 1 | Nut-Castle |
| 18:2:3 | 302-5 | 1 | Fitting-Grease |
| 18:2:4 | 3272-11 | 1 | Pin-Cotter |
| 18:3 | 100-3855 | 2 | Bolt |
| 18:4 | 99-7527 | 2 | Washer-Spring |
| 18:5 | 99-7526 | 2 | Nut |

* Not illustrated

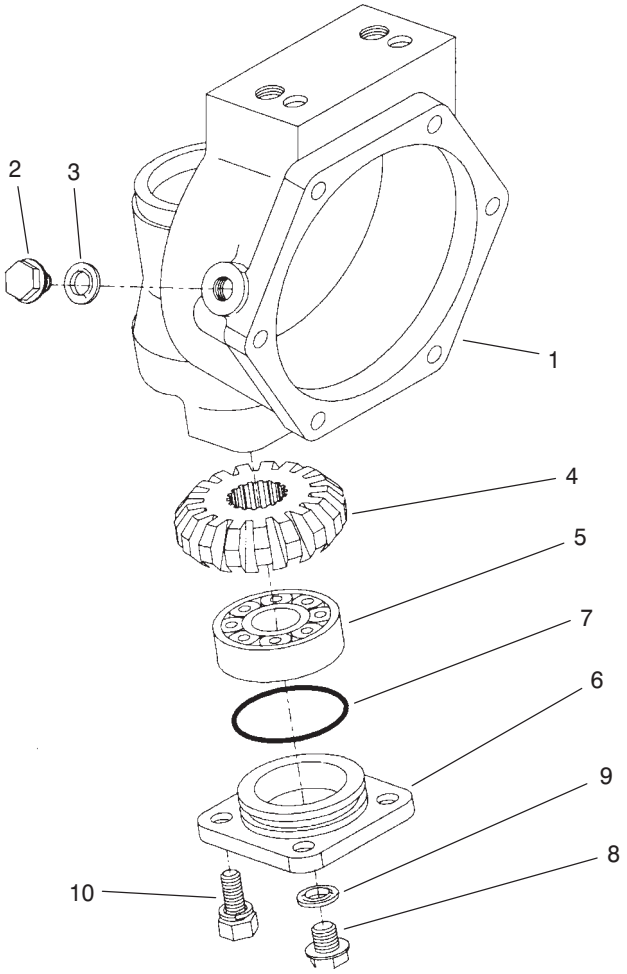
3329-243




# Bevel Gear Shaft Assembly
# Rear Axle Assembly No. 100-3784 (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 95-7509 | 1 | Shaft-Gear , Differential |
| 2 | 95-7512 | 1 | Shaft-Gear , Differential |
| 3 | 95-7517 | 2 | Gear-15 Tooth Bevel |
| 4 | 99-7530 | 4 | Bearing-Ball |
| 5 | 99-7552 | 2 | Shim 0.1 |
| 5 | 99-7553 | 2 | Shim 0.2 |
| 5 | 99-7554 | 2 | Shim 0.5 |
| 6 | 99-7531 | 2 | Clip |
| 7 | 95-7529 | 2 | Shaft-Bevel Gear |
| 8 | 95-7519 | 2 | Gear-17 Tooth Bevel |
| 9 | 99-7532 | 2 | Bearing-Taper Roller |
| 10 | 99-7558 | 2 | Collar |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

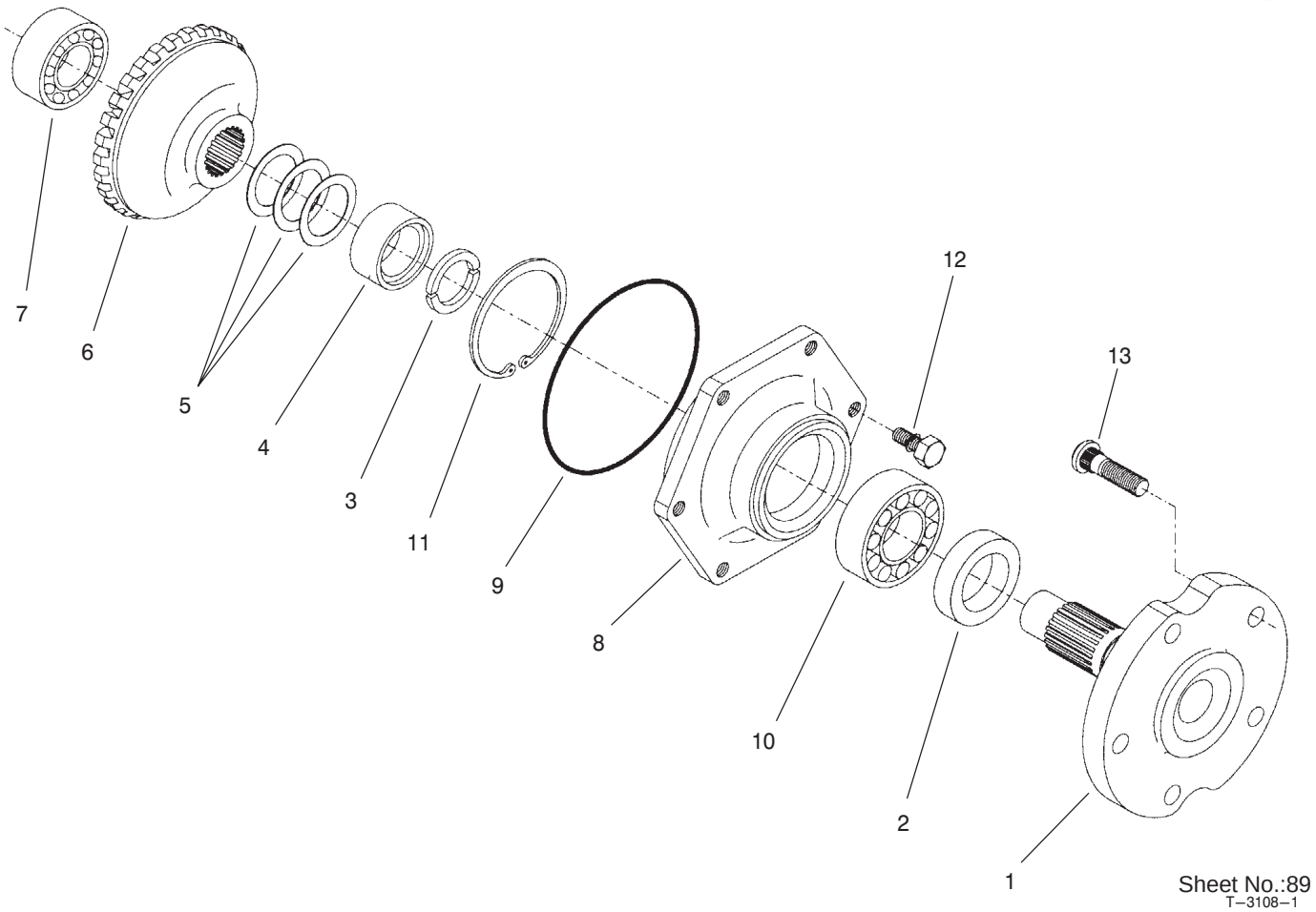



Sheet No.:88
T–3207–1

# Axle Case Assembly
# Rear Axle Assembly No. 100-3784 (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 95-7531 | 2 | Case-Axle |
| 2 | 99-7535 | 2 | Plug |
| 3 | 99-7536 | 2 | Washer-Seal |
| 4 | 95-7527 | 2 | Gear-17 Tooth Bevel |
| 5 | 99-7532 | 2 | Bearing-Taper Roller |
| 6 | 100-2560 | 2 | Cover |
| 7 | 100-2561 | 2 | O-Ring |
| 8 | 99-7589 | 2 | Plug |
| 9 | 99-7590 | 2 | Washer-Seal |
| 10 | 100-2562 | 8 | Bolt |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

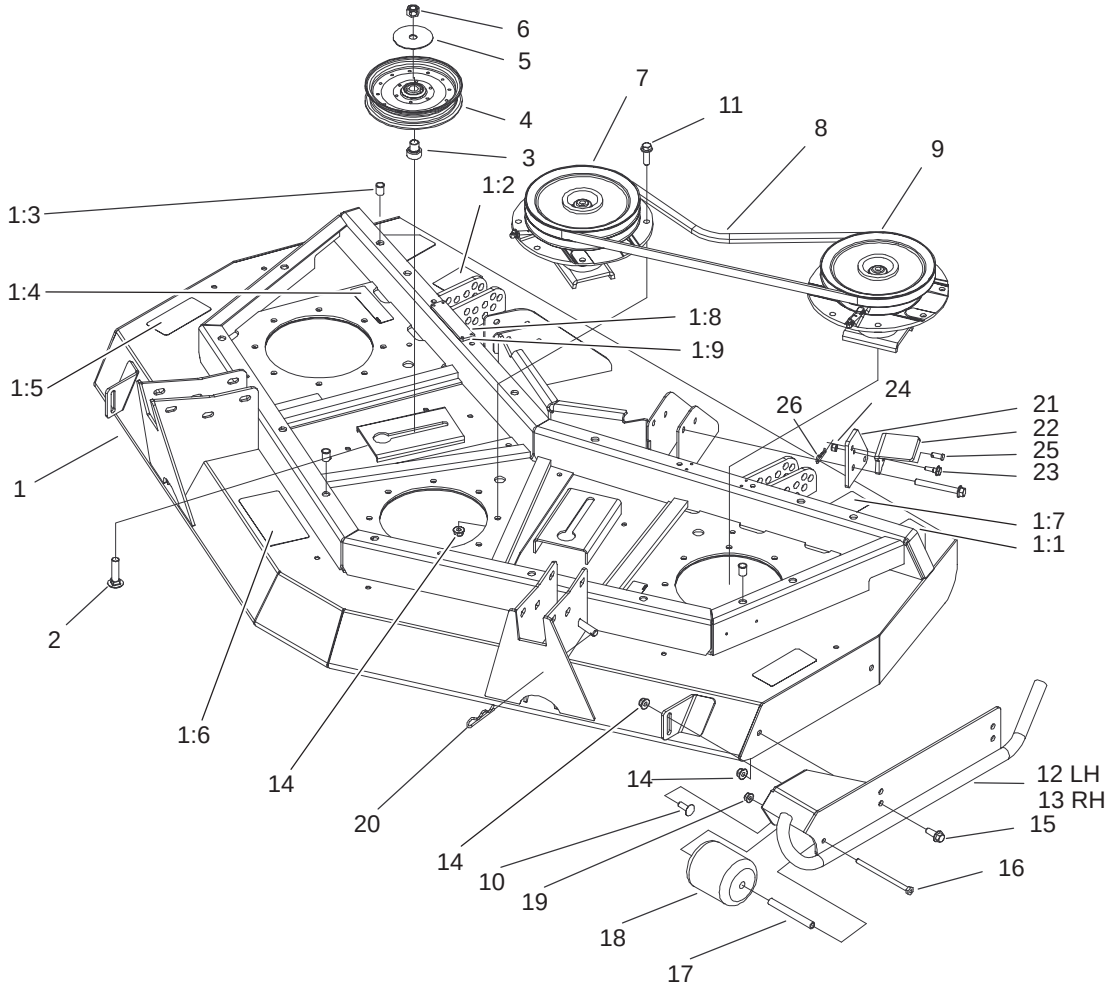



Sheet No.:89
T–3108–1

# Axle Assembly
# Rear Axle Assembly No. 100-3784 (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 95-7522 | 2 | Axle |
| 2 | 99-7564 | 2 | Seal-Oil |
| 3 | 95-7544 | 4 | Clip |
| 4 | 95-7523 | 2 | Spacer |
| 5 | 99-7555 | 2 | Shim 0.3 |
| 5 | 99-7556 | 2 | Shim 0.2 |
| 5 | 99-7557 | 2 | Shim 0.5 |
| 6 | 95-7524 | 2 | Gear-29 Tooth Bevel |
| 7 | 99-7534 | 2 | Bearing-Ball |
| 8 | 95-7521 | 2 | Cover-Axle |
| 9 | 99-7538 | 2 | O-Ring |
| 10 | 99-7561 | 2 | Bearing-Ball |
| 11 | 99-7539 | 2 | Clip |
| 12 | 99-7596 | 12 | Bolt |
| 13 | 99-7563 | 10 | Stud |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

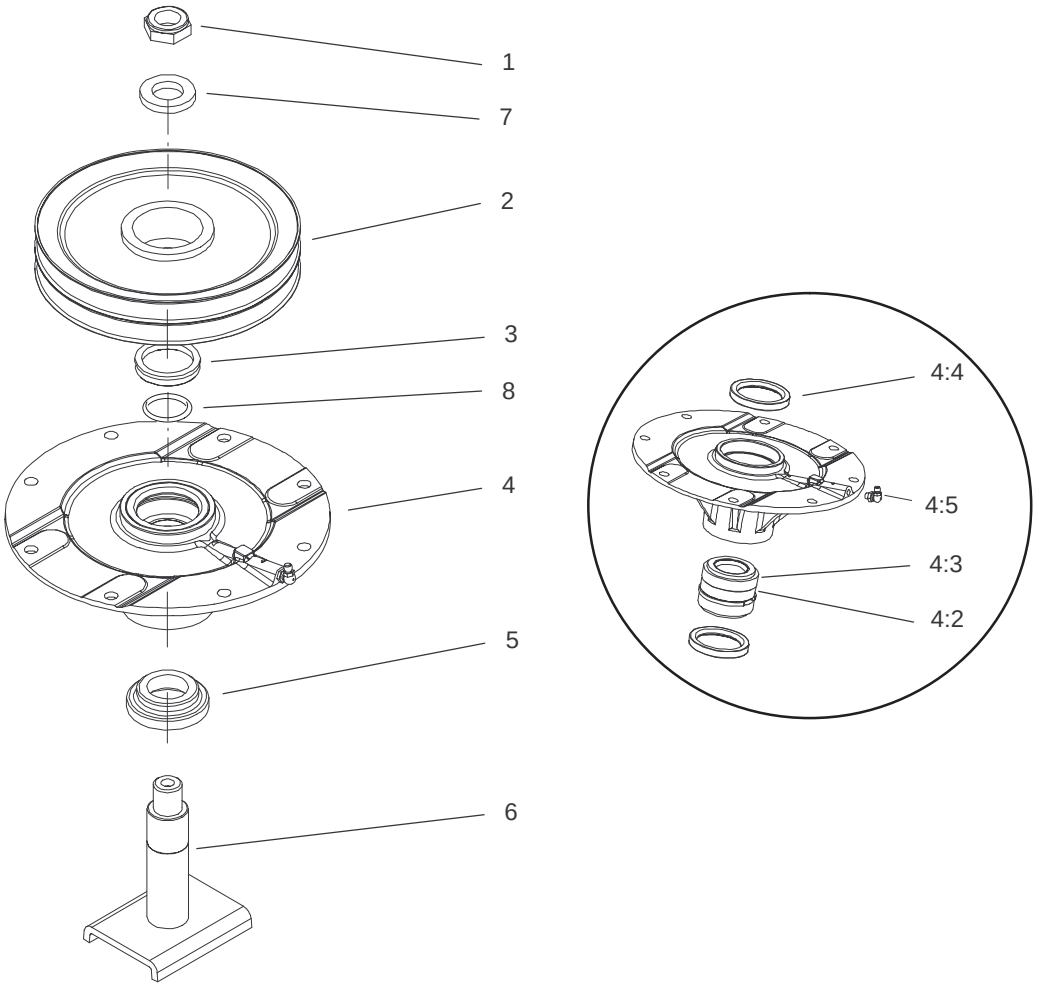



Sheet No.:2

# Front Deck, Idler and Skid Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100-3035 | 1 | Front Deck ASM |
| 1:1 | 43-8480 | 2 | Decal-Danger |
| 1:1 | 106-6753 | 2 | Decal-Danger |
| 1:2 | 100-5624 | 1 | Decal-HOC, RH |
| 1:3 | 32148-9 | 3 | Insert-Nut |
| 1:4 | 100-6578 | 4 | Decal-Danger |
| 1:5 | 93-7818 | 2 | Decal-Torque, Blade Bolt |
| 1:6 | 100-5622 | 1 | Decal-HOC |
| 1:7 | 104-3578 | 1 | Decal-HOC, LH |
| 1:8 | 105-0786 | 2 | Pad-Plastic |
| 1:9 | 3269-24 | 8 | Rivet |
| 2 | 3233-4 | 2 | Screw-CARR |
| 3 | 100-2984 | 2 | Spacer-Idler |
| 4 | 99-5493 | 2 | Pulley-Idler |
| 5 | 100-3102 | 2 | Washer-Flat |
| 6 | 3296-25 | 2 | Nut-Lock, NI |
| 7 | 104-3530 | 1 | Double Driven Spindle ASM |
| 8 | 55-7660 | 2 | V-Belt |
| 9 | 104-3531 | 1 | High Driven Spindle ASM |
| 10 | 3231-2 | 2 | Screw-CARR |
| 11 | 3234-24 | 20 | Screw-HHF |
| 12 | 100-5612-01 | 1 | LH Skid ASM |
| 13 | 100-5605-01 | 1 | RH Skid ASM |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 14 | 104-8301 | 30 | Nut-Flange, NI |
| 15 | 3234-42 | 4 | Screw-HHF |
| 16 | 322-29 | 2 | Screw-HH |
| 17 | 105-4549 | 2 | Spacer-Roller |
| 18 | 93-4803 | 2 | Roller-Deck |
| 19 | 104-8300 | 2 | Nut-Flange, NI |
| 20 | 3290-355 | 1 | Pin-Hair |
| 21 | 106-2033-01 | 1 | Plate-Latch |
| 22 | 106-2032-01 | 1 | Latch-Deck |
| 23 | 11-9030 | 1 | Screw-Shoulder |
| 24 | 3296-42 | 1 | Nut-Lock, NI |
| 25 | 283-62 | 1 | Pin-Clevis |
| 26 | 3290-467 | 1 | Pin-Hair |

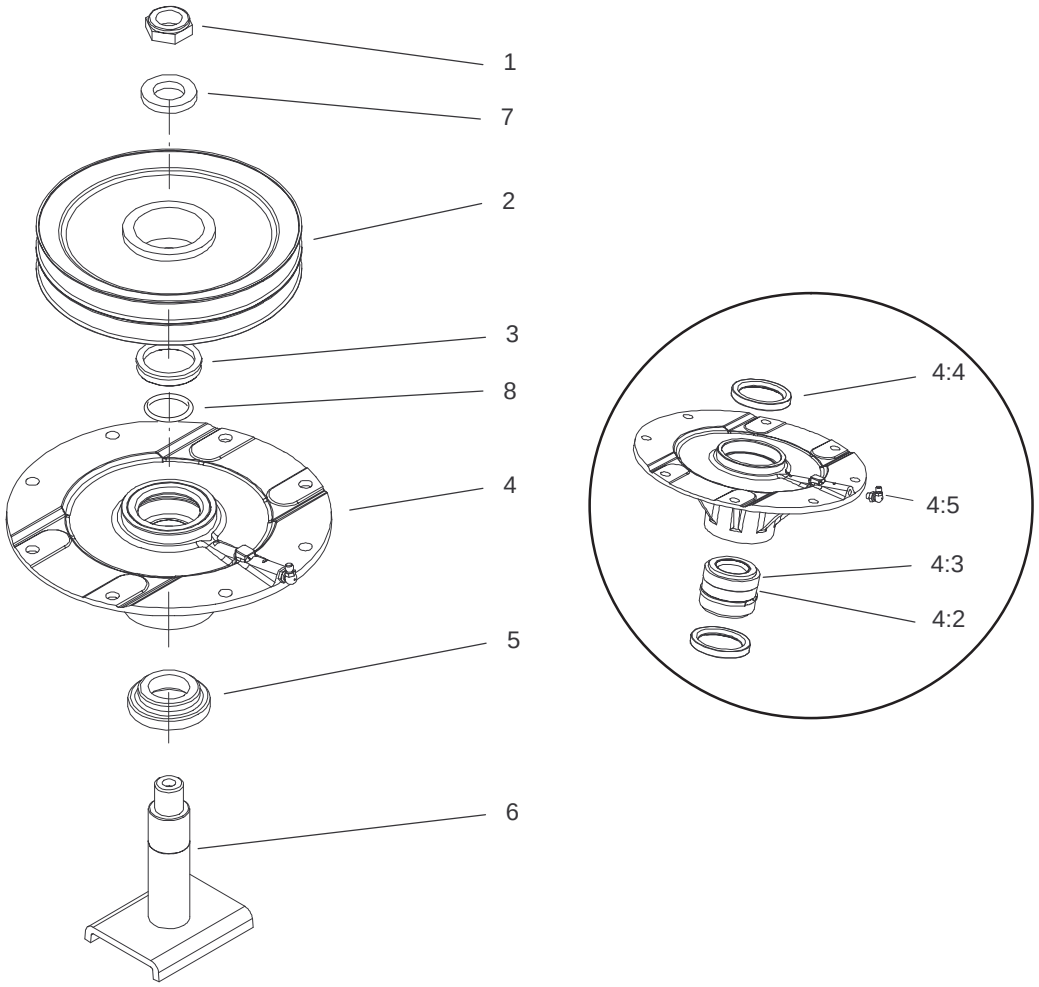



Sheet No.:A1

# Front Deck Spindle Assembly No. 104-3530

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 3296-60 | 1 | Nut-Lock, NI |
| 2 | 104-3547 | 1 | Pulley-Driven, Double |
| 3 | 104-3564 | 1 | Seal-V Ring |
| 4 | 104-3552 | 1 | Spindle Housing ASM |
| 4:2 | 104-3549 | 1 | Spacer Set-Bearing |
| 4:3 | 26-1830 | 1 | Bearing ASM |
| 4:4 | 253-154 | 2 | Seal-Oil |
| 4:5 | 302-60 | 1 | Fitting-Grease |
| 5 | 92-9800 | 1 | Spacer-Shaft, Spindle |
| 6 | 104-3554 | 1 | Spindle Shaft ASM |
| 7 | 104-8322 | 1 | Washer-Hardened |
| 8 | 106-7159 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

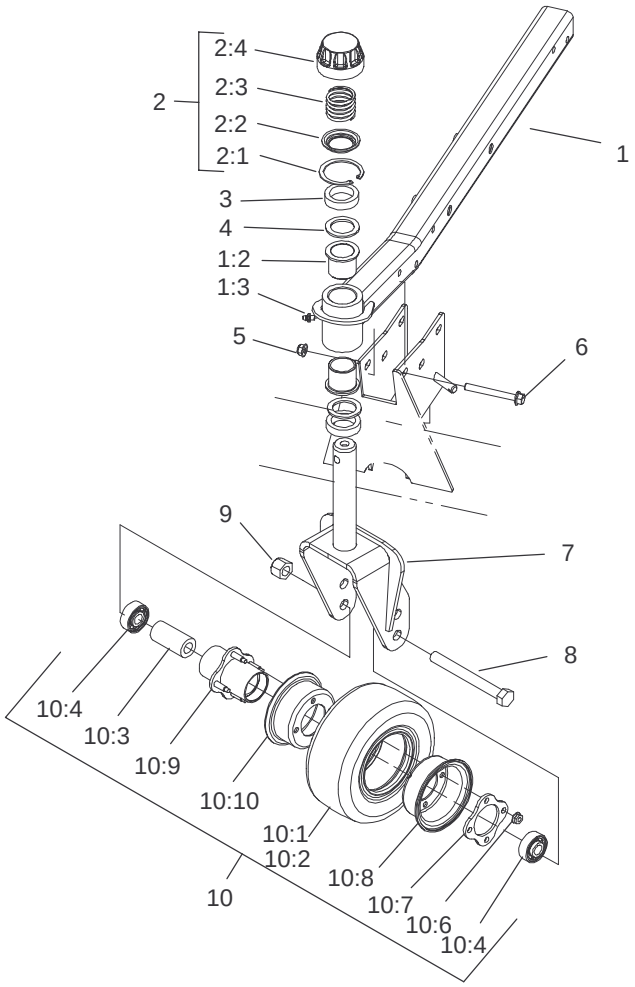



Sheet No.:A2

# Front Deck Spindle Assembly No. 104-3531

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 3296-60 | 1 | Nut-Lock, NI |
| 2 | 104-3548 | 1 | Pulley-Driven, High |
| 3 | 104-3564 | 1 | Seal-V Ring |
| 4 | 104-3552 | 1 | Spindle Housing ASM |
| 4:2 | 104-3549 | 1 | Spacer Set-Bearing |
| 4:3 | 26-1830 | 1 | Bearing ASM |
| 4:4 | 253-154 | 2 | Seal-Oil |
| 4:5 | 302-60 | 1 | Fitting-Grease |
| 5 | 92-9800 | 1 | Spacer-Shaft, Spindle |
| 6 | 104-3554 | 1 | Spindle Shaft ASM |
| 7 | 104-8322 | 1 | Washer-Hardened |
| 8 | 106-7159 | 1 | O-Ring |

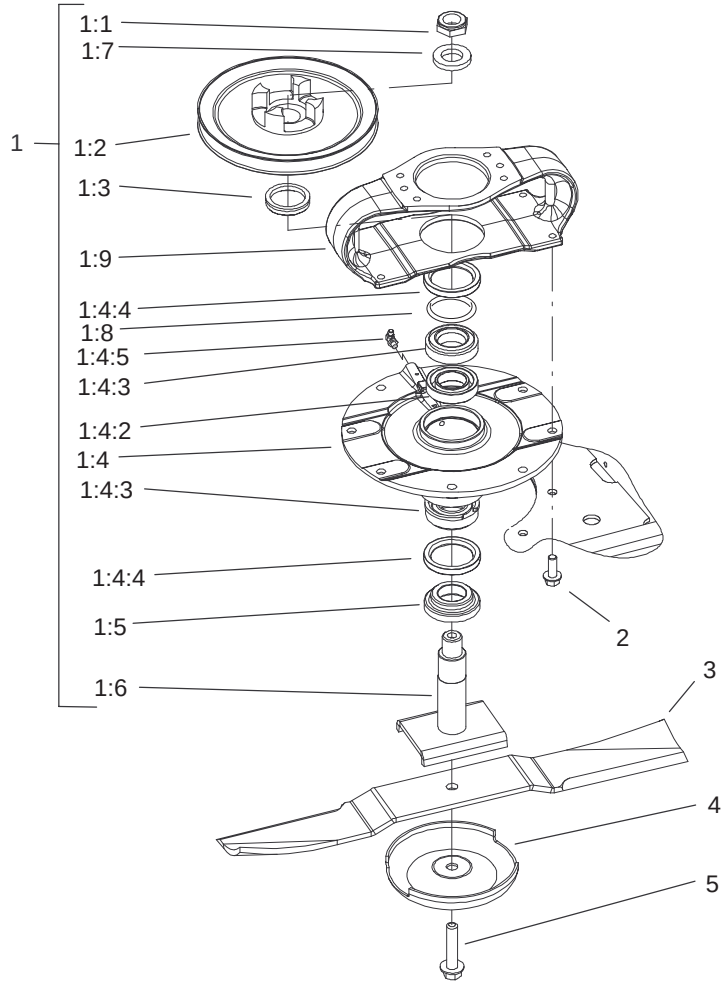
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




Sheet No.:3

# Front Deck Castor Arm and Tire Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100-8091 | 1 | Front RH Castor Arm ASM |
| 1 | 100-8092 | 1 | Front LH Castor Arm ASM |
| 1:2 | 104-8340 | 2 | Bushing |
| 1:3 | 302-5 | 1 | Fitting-Grease |
| 2 | 92-9727 | 2 | HOC Cap ASM |
| 2:1 | 92-5581 | 1 | Ring-Retaining |
| 2:2 | 92-5583 | 1 | Washer-Cap |
| 2:3 | 92-9726 | 1 | Spring-Compression |
| 2:4 | 92-8861 | 1 | Cap-HOC |
| 3 | 69-1510 | 10 | Spacer-Castor |
| 4 | 69-6860 | 4 | Washer-Thrust |
| 5 | 104-8301 | 10 | Nut-Flange, NI |
| 6 | 3234-41 | 10 | Screw-HHF |
| 7 | 104-0762-01 | 2 | Castor Fork ASM |
| 8 | 327-24 | 2 | Screw-HH |
| 9 | 3296-53 | 2 | Nut-Lock, NI |
| 10 | 93-5974 | 2 | 8in Foam Filled Wheel ASM |
| 10 | 93-9938 | 2 | 8in Wheel ASM |
| 10:1 | 93-9939 | 1 | Tire |
| 10:2 | 68-8950 | 1 | Tube-Inner (W/Valve) |
| 10:3 | 93-4241 | 1 | Spacer-Bearing, Inner |
| 10:4 | 93-4237 | 2 | Bearing |
| 10:6 | 32128-16 | 4 | Nut-HHF |
| 10:7 | 93-4242 | 1 | Plate |
| 10:8 | 93-4239 | 1 | Rim-Wheel, Half |
| 10:9 | 93-5980 | 1 | Hub |
| 10:10 | 95-2741 | 1 | Rim-Wheel, Half |

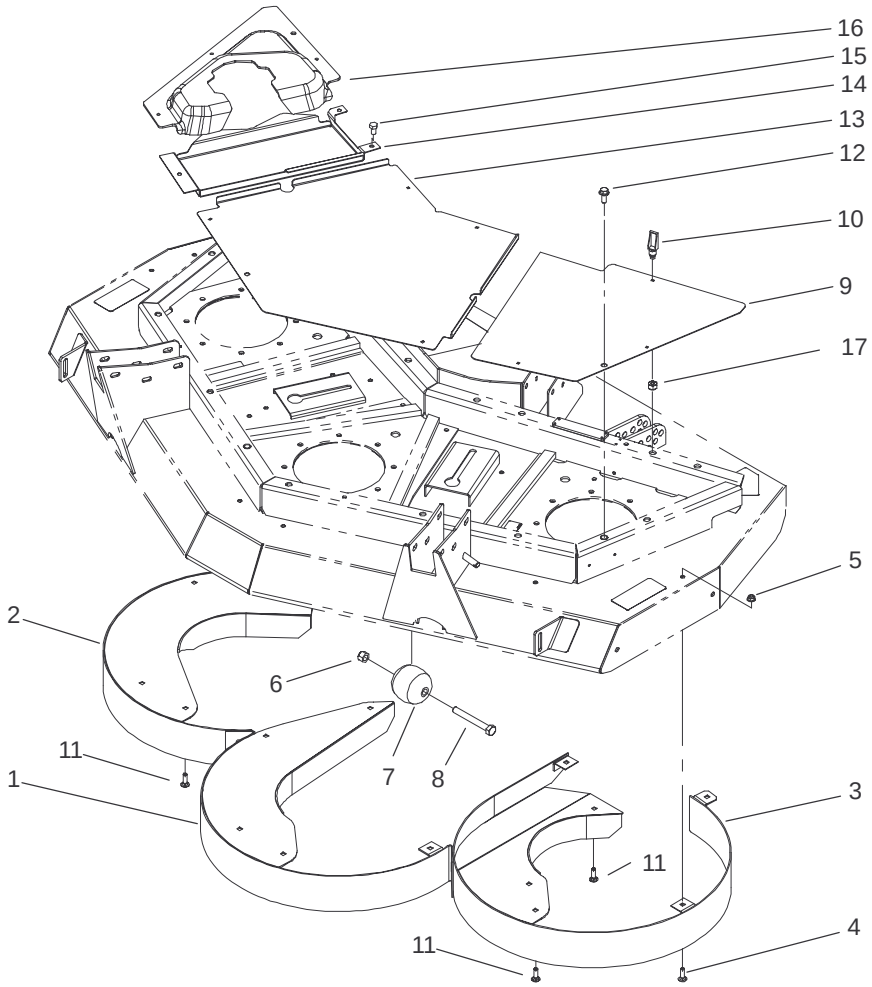



Sheet No.:4

# Front Deck Spindle Installation Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-3529 | 1 | Driving Spindle ASM |
| 1:1 | 3296-60 | 1 | Nut-Lock, NI |
| 1:2 | 104-3545 | 1 | Pulley-Driving |
| 1:3 | 104-3564 | 1 | Seal-V Ring |
| 1:4 | 104-3552 | 1 | Spindle Housing ASM |
| 1:4:2 | 104-3549 | 1 | Spacer Set-Bearing |
| 1:4:3 | 26-1830 | 1 | Bearing ASM |
| 1:4:4 | 253-154 | 2 | Seal-Oil |
| 1:4:5 | 302-60 | 1 | Fitting-Grease |
| 1:5 | 92-9800 | 1 | Spacer-Shaft, Spindle |
| 1:6 | 104-3554 | 1 | Spindle Shaft ASM |
| 1:7 | 104-8322 | 1 | Washer-Hardened |
| 1:8 | 106-7159 | 1 | O-Ring |
| 1:9 | 104-3544 | 1 | Mount-Drive Motor |
| 2 | 3234-42 | 4 | Screw-HHF |
| 3 | 92-5608-03 | 3 | Blade |
| 4 | 72-9361 | 3 | Cup-Scalp, Anti |
| 5 | 92-5816 | 3 | Bolt-Blade |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

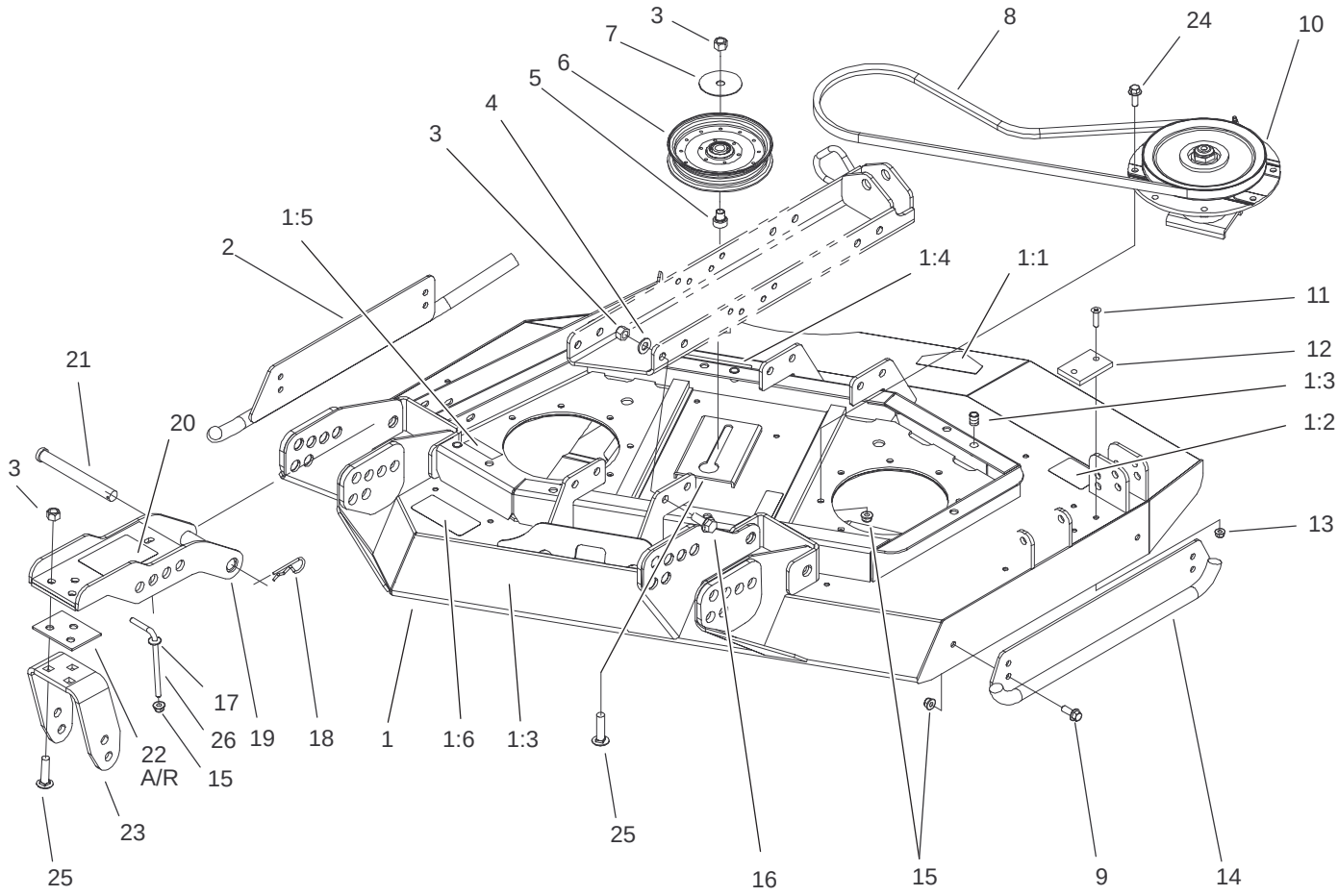



Sheet No.:5

# Front Deck Rear Discharge Chamber and Cover Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-2200-01 | 1 | Center Chamber ASM |
| 2 | 104-2201-01 | 1 | RH Chamber ASM |
| 3 | 104-2202-01 | 1 | LH Chamber ASM |
| 4 | 3230-18 | 15 | Screw-CARR |
| 5 | 104-8300 | 18 | Nut-Flange, NI |
| 6 | 3296-25 | 2 | Nut-Lock, NI |
| 7 | 29-4820 | 2 | Roller |
| 8 | 325-17 | 2 | Screw-HH |
| 9 | 100-5663-03 | 1 | Cover-Front, LH |
| 10 | 74-5950 | 10 | Latch-Swell |
| 11 | 3230-22 | 3 | Screw-CARR |
| 12 | 3234-42 | 3 | Screw-HHF |
| 13 | 100-5660-03 | 1 | Cover-Front, Center |
| 14 | 100-5662-03 | 1 | Cover-Front, RH |
| 15 | 32144-69 | 3 | Screw-HH |
| 16 | 100-5661 | 1 | Cover-Front, RH |
| 17 | 1-804254 | 10 | Nut |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

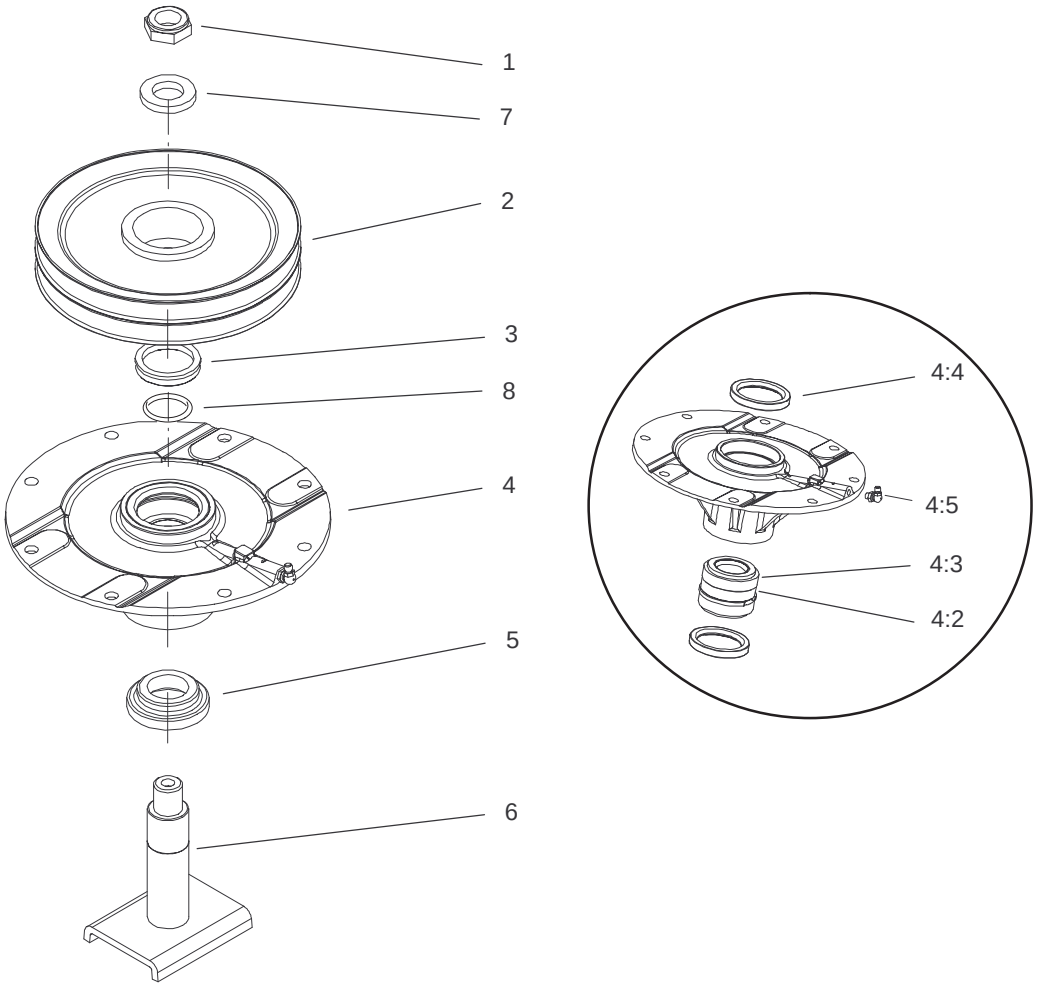



Sheet No.:2

# Right Hand Deck, Idler and Skid Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100-3036 | 1 | RH Side Deck ASM |
| 1:1 | 43-8480 | 1 | Decal-Danger |
| 1:1 | 106-6753 | 1 | Decal-Danger |
| 1:2 | 100-5694 | 1 | Decal-Rear HOC, RH |
| 1:3 | 32148-9 | 3 | Insert-Nut |
| 1:4 | 100-5622 | 1 | Decal-HOC |
| 1:5 | 100-6578 | 3 | Decal-Danger |
| 1:6 | 93-7818 | 1 | Decal-Torque, Blade Bolt |
| 2 | 100-5620-01 | 1 | Skid ASM-RH |
| 3 | 3296-25 | 15 | Nut-Lock, NI |
| 4 | 3256-26 | 8 | Washer-Flat |
| 5 | 100-2984 | 1 | Spacer-Idler |
| 6 | 99-5493 | 1 | Pulley-Idler |
| 7 | 100-3102 | 1 | Washer-Flat |
| 8 | 55-7660 | 1 | V-Belt |
| 9 | 3234-42 | 4 | Screw-HHF |
| 10 | 104-3532 | 1 | Low Driven Spindle ASM |
| 11 | 32108-103 | 2 | Screw-FH |
| 12 | 69-9290 | 1 | Pad-Bumper |
| 13 | 104-8300 | 2 | Nut-Flange, NI |
| 14 | 104-2250-01 | 1 | Side Skid ASM |
| 15 | 104-8301 | 22 | Nut-Flange, NI |
| 16 | 3234-38 | 8 | Screw-HHF |
| 17 | 3256-3 | 2 | Washer-Flat |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 18 | 3290-343 | 4 | Pin-Hair |
| 19 | 104-7529-01 | 2 | Castor Bracket ASM |
| 20 | 100-5623 | 1 | Decal-HOC, RH |
| 21 | 100-5569 | 4 | Pin-Clevis |
| 22 | 104-7524 | 8 | Shim |
| 23 | 104-7525-01 | 2 | Bracket-Fork |
| 24 | 3234-24 | 12 | Screw-HHF |
| 25 | 3233-4 | 7 | Screw-CARR |
| 26 | 106-2047 | 2 | Rod-Tension |

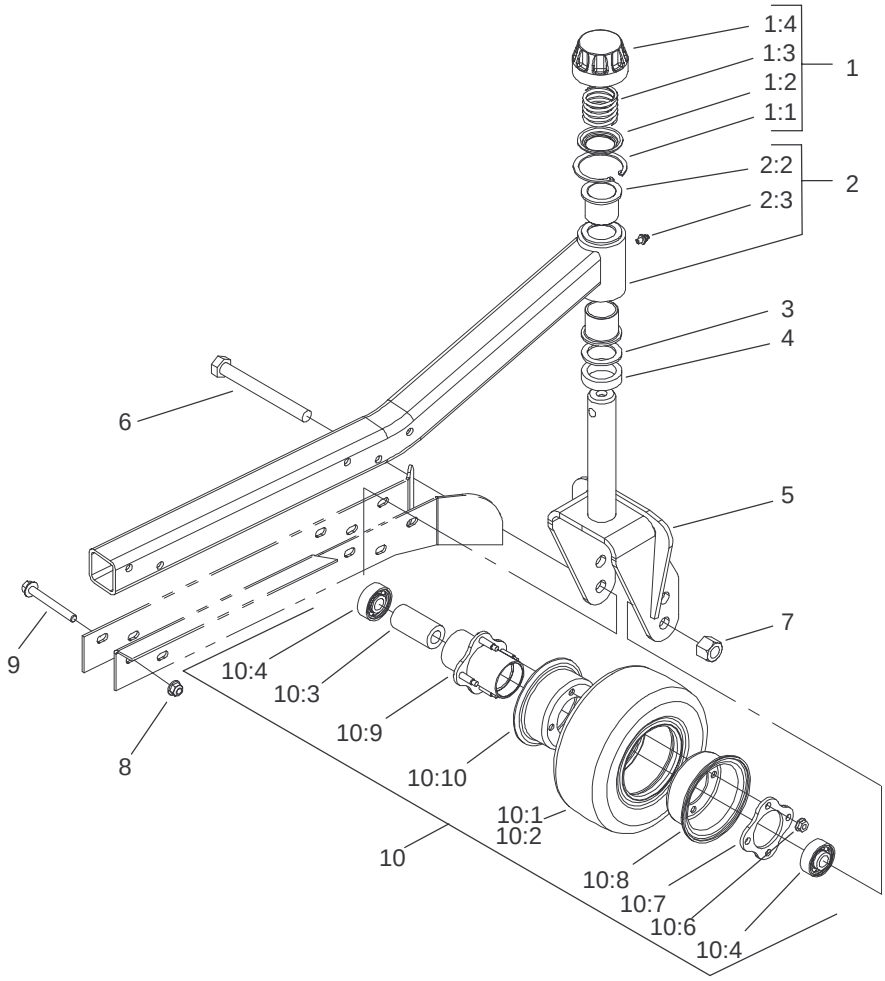



Sheet No.:A1

# Right and Left Hand Deck Spindle Assembly No. 104-3532

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 3296-60 | 1 | Nut-Lock, NI |
| 2 | 104-3546 | 1 | Pulley-Driven, Low |
| 3 | 104-3564 | 1 | Seal-V Ring |
| 4 | 104-3552 | 1 | Spindle Housing ASM |
| 4:2 | 104-3549 | 1 | Spacer Set-Bearing |
| 4:3 | 26-1830 | 1 | Bearing ASM |
| 4:4 | 253-154 | 2 | Seal-Oil |
| 4:5 | 302-60 | 1 | Fitting-Grease |
| 5 | 92-9800 | 1 | Spacer-Shaft, Spindle |
| 6 | 104-3554 | 1 | Spindle Shaft ASM |
| 7 | 104-8322 | 1 | Washer-Hardened |
| 8 | 106-7159 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

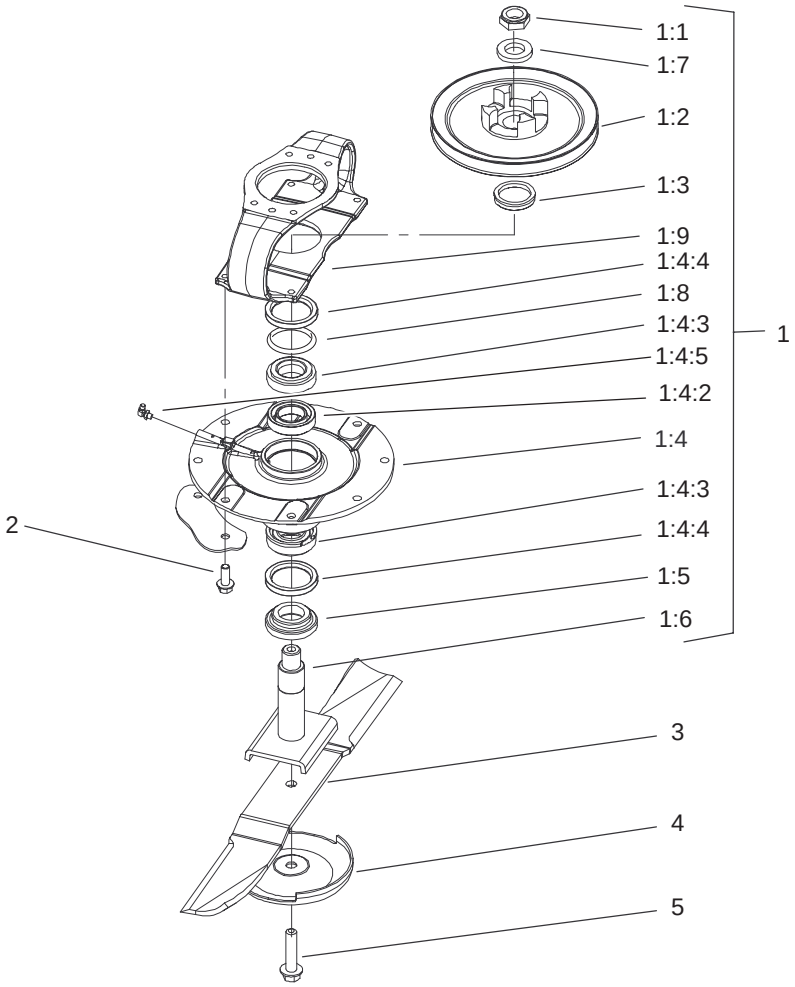



Sheet No.:3

# Right and Left Hand Castor Arm and Tire Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 92-9727 | 1 | HOC Cap ASM |
| 1:1 | 92-5581 | 1 | Ring-Retaining |
| 1:2 | 92-5583 | 1 | Washer-Cap |
| 1:3 | 92-9726 | 1 | Spring-Compression |
| 1:4 | 92-8861 | 1 | Cap-HOC |
| 2 | 100-8093 | 1 | Side Castor Arm ASM |
| 2:2 | 104-8340 | 2 | Bushing |
| 2:3 | 302-5 | 1 | Fitting-Grease |
| 3 | 69-6860 | 2 | Washer-Thrust |
| 4 | 69-1510 | 5 | Spacer-Castor |
| 5 | 104-0762-01 | 1 | Castor Fork ASM |
| 6 | 327-24 | 3 | Screw-HH |
| 7 | 3296-53 | 3 | Nut-Lock, NI |
| 8 | 104-8301 | 5 | Nut-Flange, NI |
| 9 | 3234-41 | 5 | Screw-HHF |
| 10 | 93-9938 | 3 | 8in Wheel ASM |
| 10 | 93-5974 | 3 | 8in Foam Filled Wheel ASM |
| 10:1 | 93-9939 | 1 | Tire |
| 10:2 | 68-8950 | 1 | Tube-Inner (W/Valve) |
| 10:3 | 93-4241 | 1 | Spacer-Bearing, Inner |
| 10:4 | 93-4237 | 2 | Bearing |
| 10:6 | 32128-16 | 4 | Nut-HHF |
| 10:7 | 93-4242 | 1 | Plate |
| 10:8 | 93-4239 | 1 | Rim-Wheel, Half |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10:9 | 93-5980 | 1 | Hub |
| 10:10 | 95-2741 | 1 | Rim-Wheel, Half |

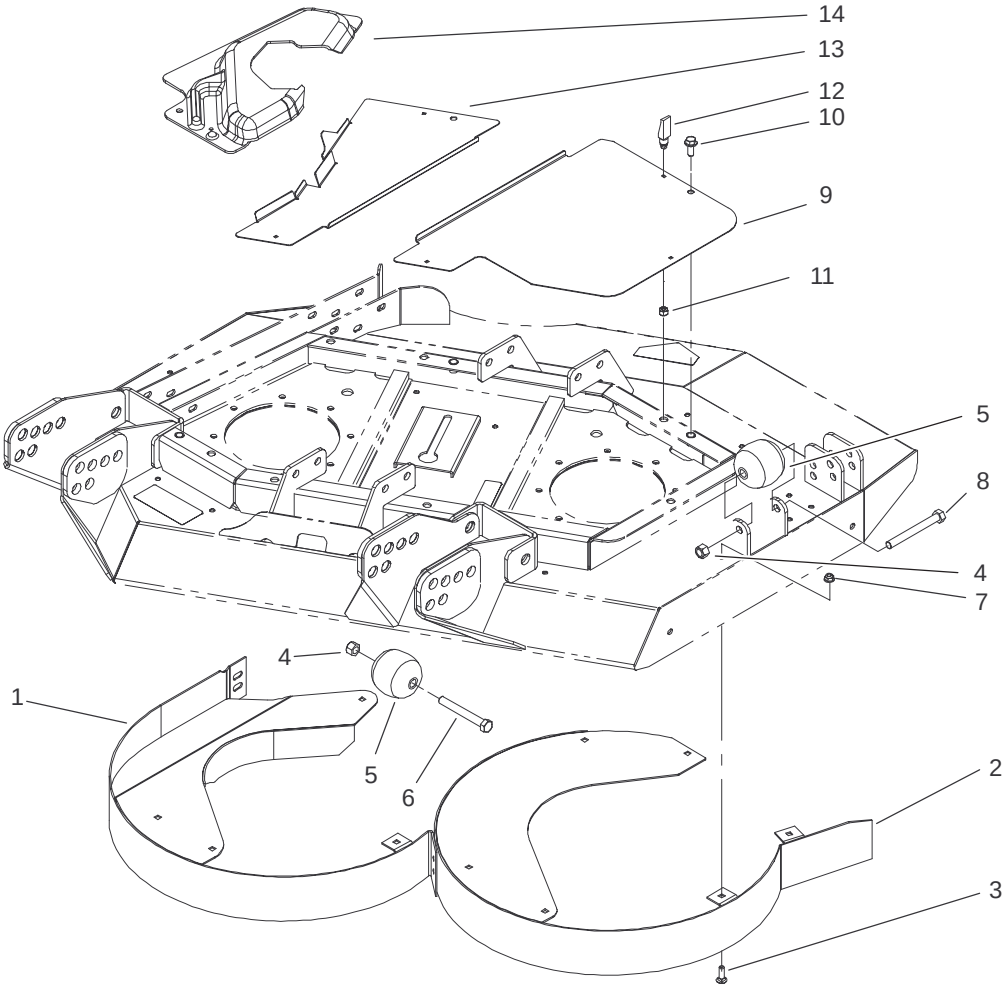



Sheet No.:4

# Right and Left Hand Deck Spindle Installation Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-3529 | 1 | Driving Spindle ASM |
| 1:1 | 3296-60 | 1 | Nut-Lock, NI |
| 1:2 | 104-3545 | 1 | Pulley-Driving |
| 1:3 | 104-3564 | 1 | Seal-V Ring |
| 1:4 | 104-3552 | 1 | Spindle Housing ASM |
| 1:4:2 | 104-3549 | 1 | Spacer Set-Bearing |
| 1:4:3 | 26-1830 | 1 | Bearing ASM |
| 1:4:4 | 253-154 | 2 | Seal-Oil |
| 1:4:5 | 302-60 | 1 | Fitting-Grease |
| 1:5 | 92-9800 | 1 | Spacer-Shaft, Spindle |
| 1:6 | 104-3554 | 1 | Spindle Shaft ASM |
| 1:7 | 104-8322 | 1 | Washer-Hardened |
| 1:8 | 106-7159 | 1 | O-Ring |
| 1:9 | 104-3544 | 1 | Mount-Drive Motor |
| 2 | 3234-42 | 4 | Screw-HHF |
| 3 | 92-5608-03 | 2 | Blade |
| 4 | 72-9361 | 2 | Cup-Scalp, Anti |
| 5 | 92-5816 | 2 | Bolt-Blade |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

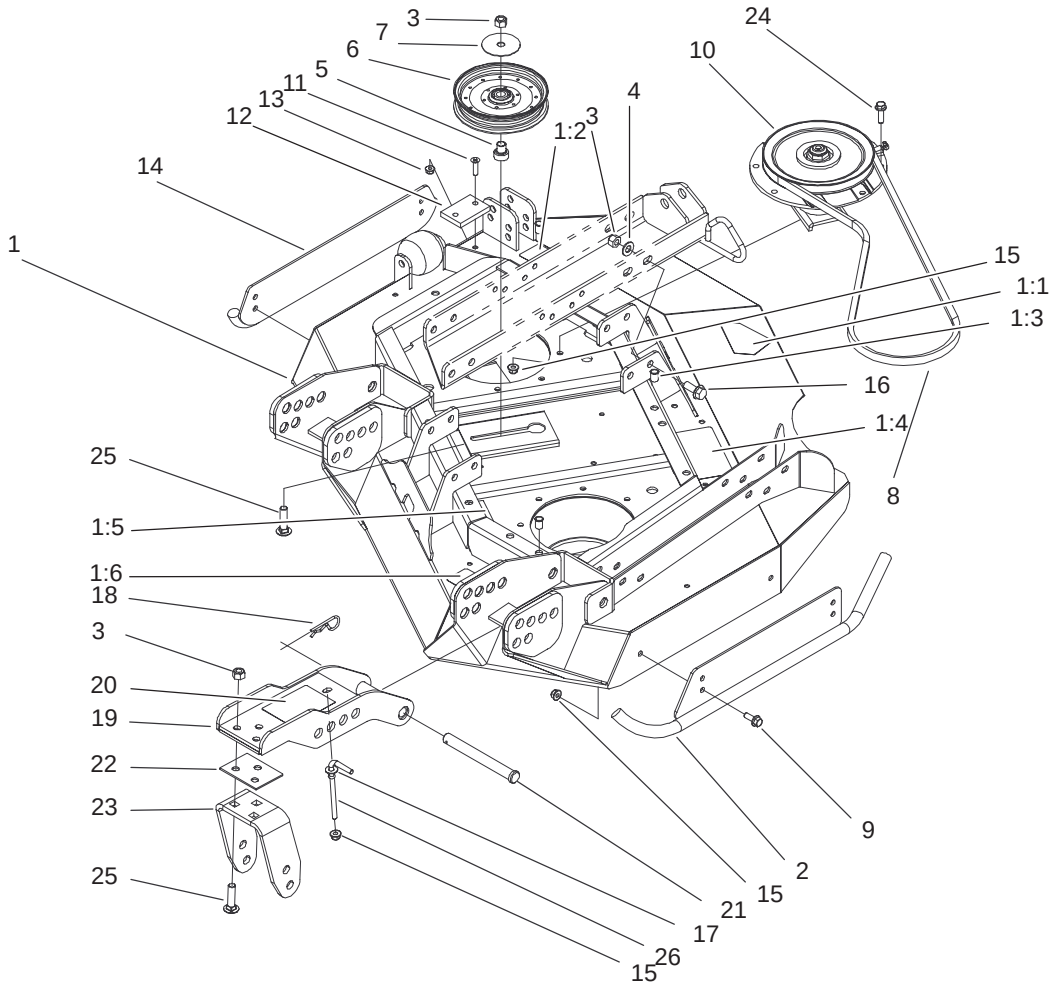



Sheet No.:5

# Right Hand Deck Rear Discharge Chamber and Cover Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-2203-01 | 1 | Outer Chamber ASM |
| 2 | 104-2204-01 | 1 | Inner Chamber ASM |
| 3 | 3230-18 | 11 | Screw-CARR |
| 4 | 3296-25 | 2 | Nut-Lock, NI |
| 5 | 29-4820 | 2 | Roller |
| 6 | 325-17 | 1 | Screw-HH |
| 7 | 104-8300 | 11 | Nut-Flange, NI |
| 8 | 325-18 | 1 | Screw-HH |
| 9 | 100-5668-03 | 1 | Plate-Cover , RH Side |
| 10 | 3234-42 | 3 | Screw-HHF |
| 11 | 1-804254 | 7 | Nut |
| 12 | 74-5950 | 7 | Latch-Swell |
| 13 | 100-5665-03 | 1 | Plate-Cover , RH |
| 14 | 100-5666 | 1 | Cover-Motor , RH Deck |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

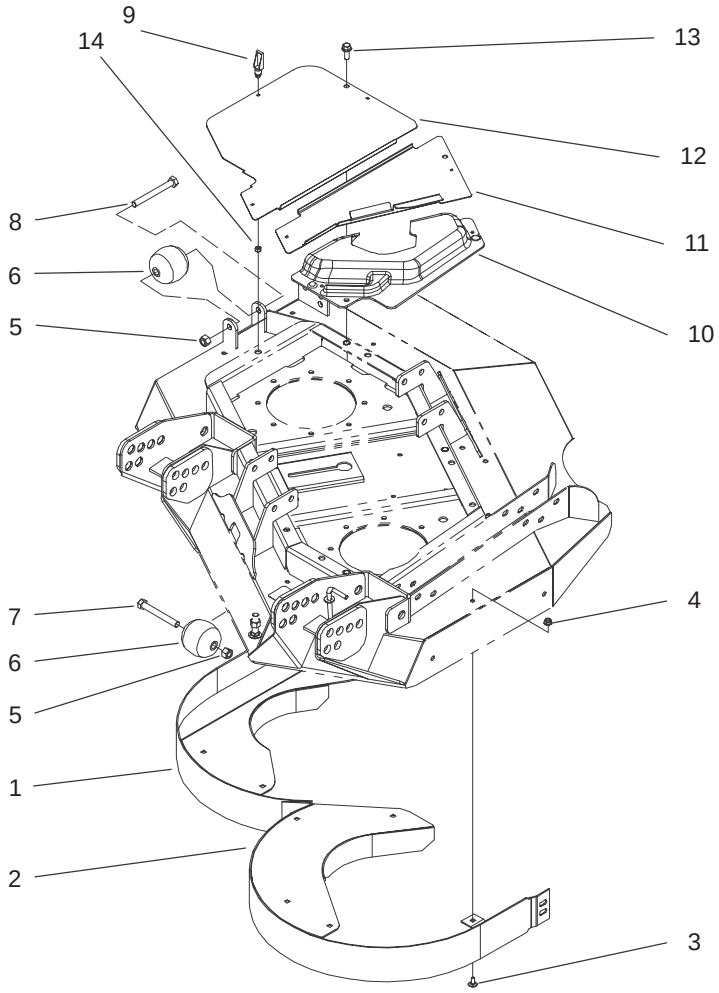



Sheet No.:2

# Left Hand Deck, Idler and Skid Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100-3037 | 1 | LH Side Deck ASM |
| 1:1 | 43-8480 | 1 | Decal-Danger |
| 1:1 | 106-6753 | 1 | Decal-Danger |
| 1:2 | 100-5693 | 1 | Decal-Rear HOC, LH |
| 1:3 | 32148-9 | 3 | Insert-Nut |
| 1:4 | 100-5622 | 1 | Decal-HOC |
| 1:5 | 100-6578 | 3 | Decal-Danger |
| 1:6 | 93-7818 | 1 | Decal-Torque, Blade Bolt |
| 2 | 100-8125-01 | 1 | LH Skid ASM |
| 3 | 3296-25 | 15 | Nut-Lock, NI |
| 4 | 3256-26 | 8 | Washer-Flat |
| 5 | 100-2984 | 1 | Spacer-Idler |
| 6 | 99-5493 | 1 | Pulley-Idler |
| 7 | 100-3102 | 1 | Washer-Flat |
| 8 | 55-7660 | 1 | V-Belt |
| 9 | 3234-42 | 4 | Screw-HHF |
| 10 | 104-3532 | 1 | Low Driven Spindle ASM |
| 11 | 32108-103 | 2 | Screw-FH |
| 12 | 69-9290 | 1 | Pad-Bumper |
| 13 | 104-8300 | 2 | Nut-Flange, NI |
| 14 | 104-2250-01 | 1 | Skid ASM-Side |
| 15 | 104-8301 | 22 | Nut-Flange, NI |
| 16 | 3234-38 | 8 | Screw-HHF |
| 17 | 3256-3 | 2 | Washer-Flat |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 18 | 3290-343 | 4 | Pin-Hair |
| 19 | 104-7529-01 | 2 | Castor Bracket ASM |
| 20 | 104-3579 | 1 | Decal-HOC, LH |
| 21 | 100-5569 | 4 | Pin-Clevis |
| 22 | 104-7524 | 8 | Shim |
| 23 | 104-7525-01 | 2 | Bracket-Fork |
| 24 | 3234-24 | 12 | Screw-HHF |
| 25 | 3233-4 | 7 | Screw-CARR |
| 26 | 106-2047 | 2 | Rod-Tension |



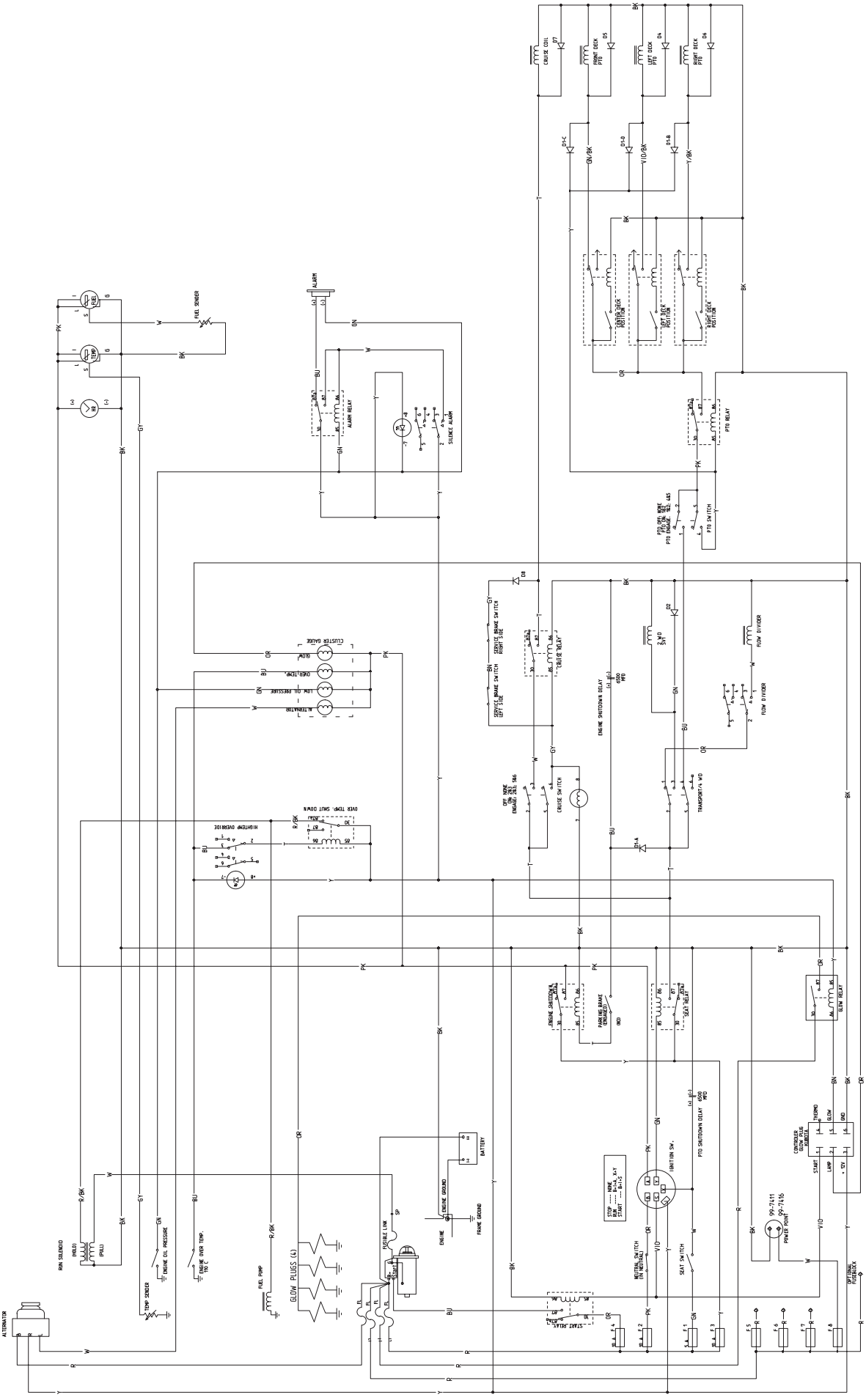

Sheet No.:5

# Left Hand Deck Rear Discharge Chamber and Cover Assembly

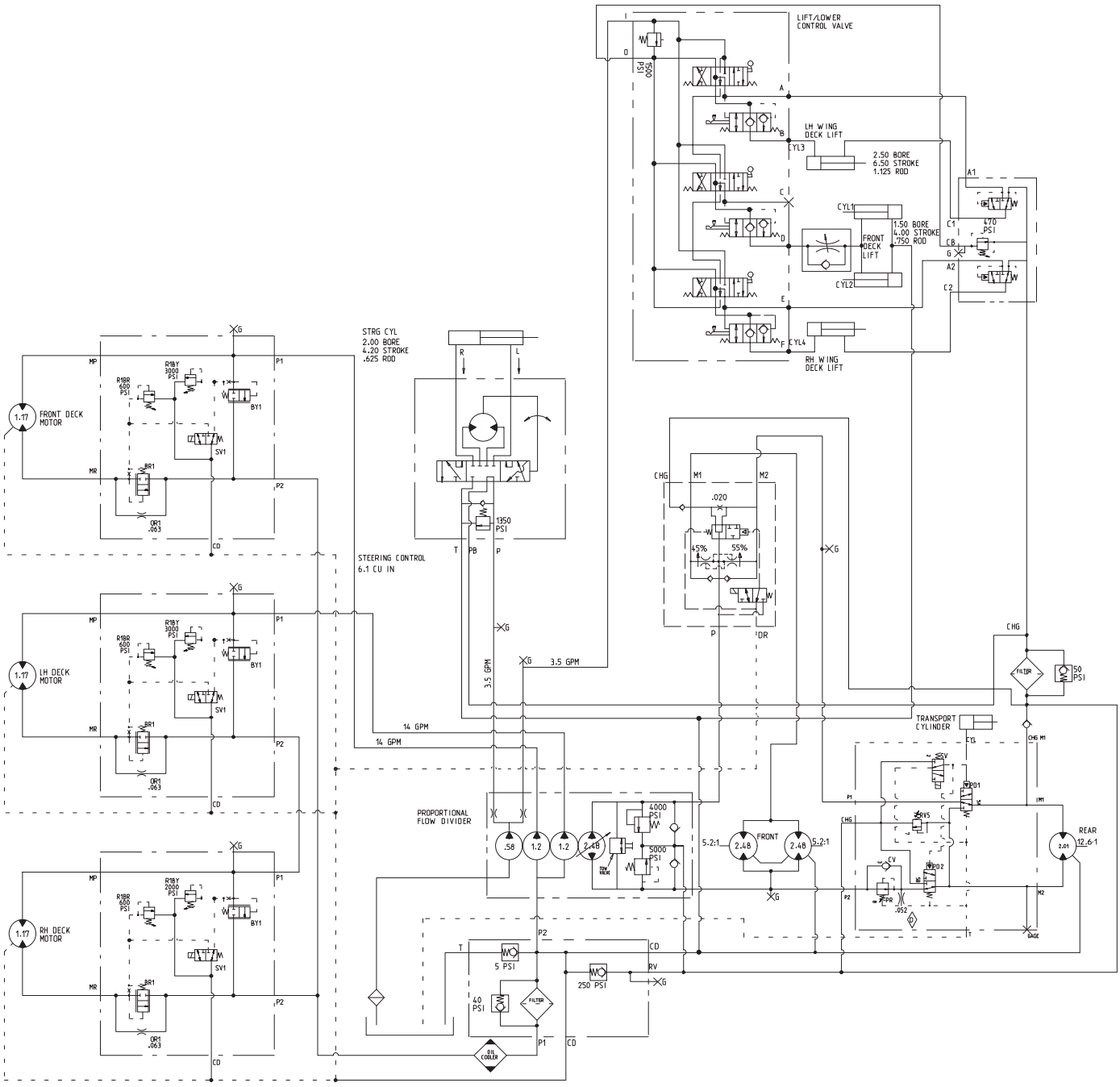
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-2205-01 | 1 | Inner Chamber ASM |
| 2 | 104-2206-01 | 1 | Outer Chamber ASM |
| 3 | 3230-18 | 9 | Screw-CARR |
| 4 | 104-8300 | 9 | Nut-Flange, NI |
| 5 | 3296-25 | 2 | Nut-Lock, NI |
| 6 | 29-4820 | 2 | Roller |
| 7 | 325-17 | 1 | Screw-HH |
| 8 | 325-18 | 1 | Screw-HH |
| 9 | 74-5950 | 7 | Latch-Swell |
| 10 | 100-5669 | 1 | Cover-Motor , LH Deck |
| 11 | 100-5664-03 | 1 | Plate-Cover , LH |
| 12 | 100-5667-03 | 1 | Plate-Cover , LH Side |
| 13 | 3234-42 | 3 | Screw-HHF |
| 14 | 1-804254 | 7 | Nut |

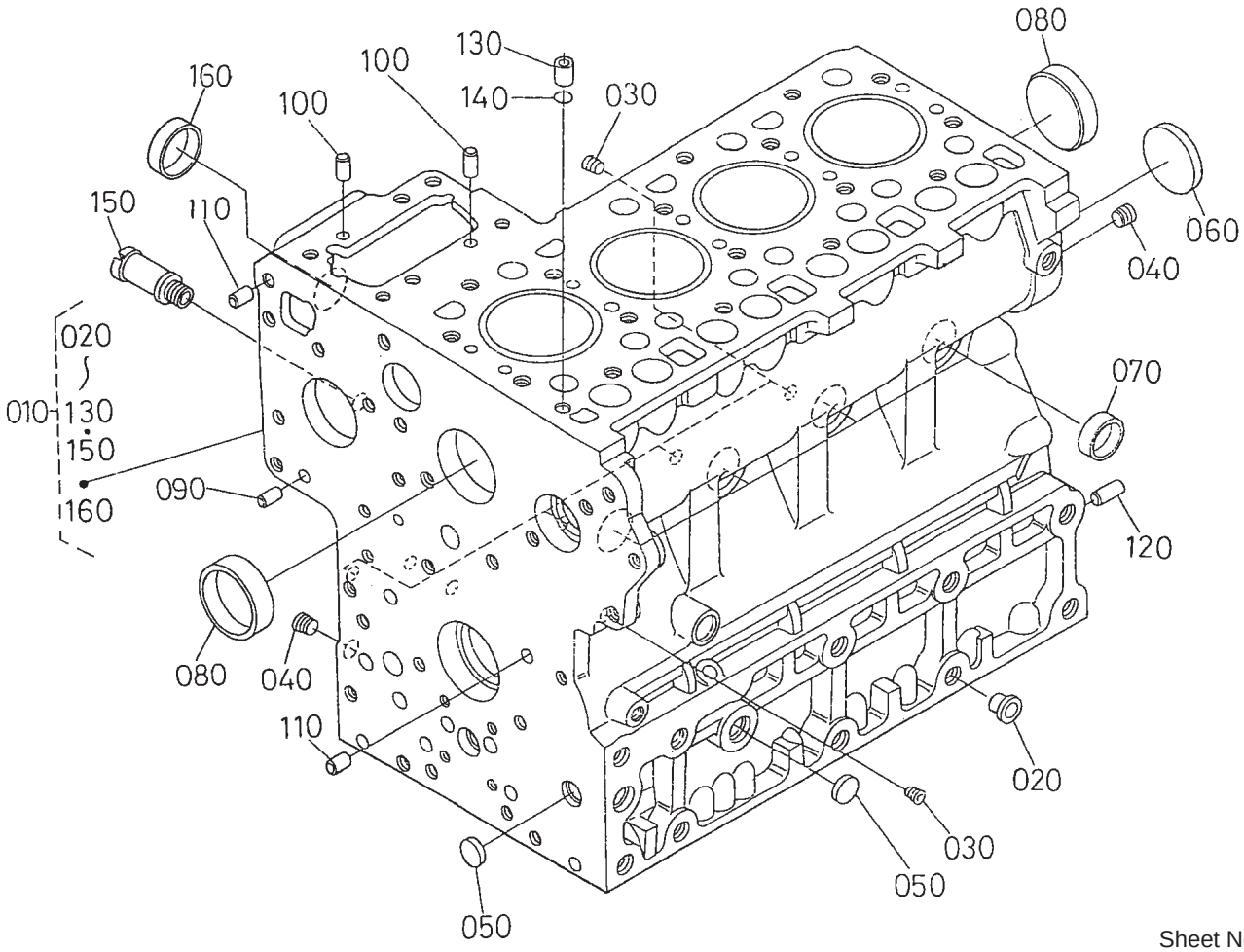
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

# Electrical Schematic



# Hydraulic Schematic



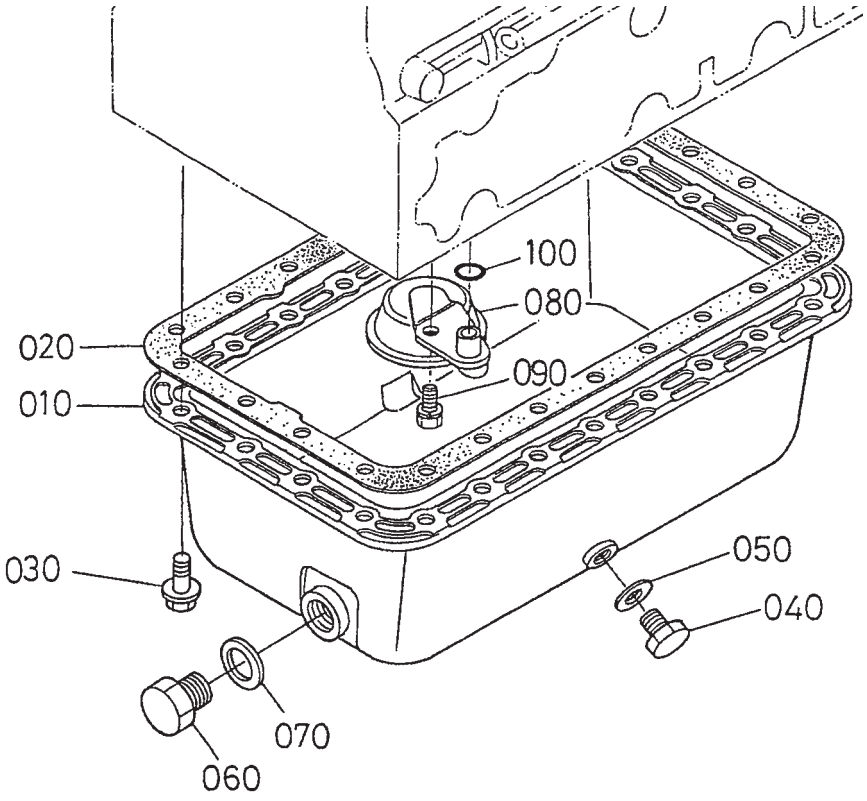



Sheet No.:40

# Crankcase Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9150 | 1 | Crankcase |
| 20 | 98-7486 | 2 | Plug |
| 30 | 98-7487 | 6 | Plug |
| 40 | 107-0107 | 2 | Plug |
| 50 | 98-7489 | 3 | Plug |
| 60 | 98-7490 | 1 | Plug |
| 70 | 98-7500 | 6 | Cap-Sealing |
| 80 | 98-7501 | 2 | Cap-Sealing |
| 90 | 98-7502 | 2 | Pin-Straight |
| 100 | 98-7503 | 2 | Pin-Straight |
| 110 | 98-7504 | 2 | Pin-Straight |
| 120 | 98-7505 | 1 | Pin-Straight |
| 130 | 98-7506 | 1 | Pin-Pipe |
| 140 | 98-7509 | 1 | O-Ring |
| 150 | 100-9153 | 1 | Pipe-Return, Water |
| 160 | 105-2883 | 1 | Cap-Sealing |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

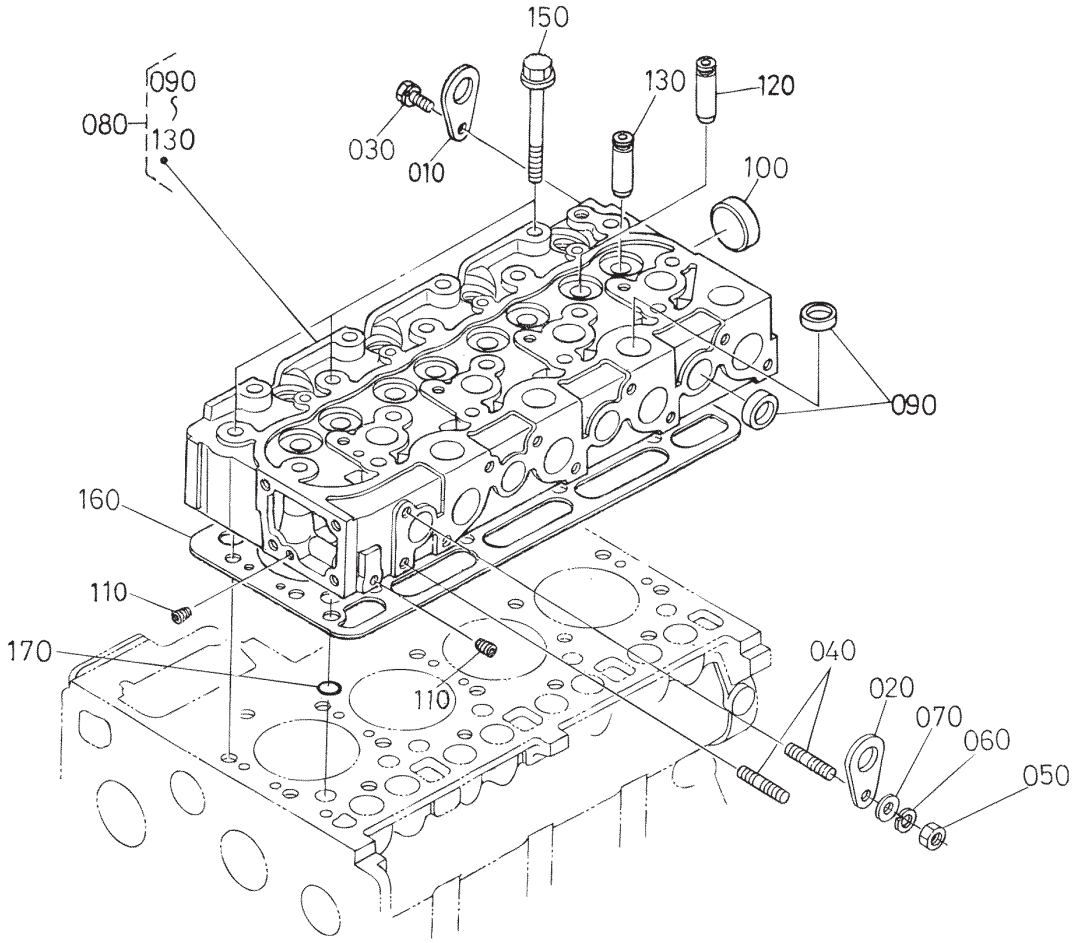



Sheet No.:41

# Oil Pan Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7520 | 1 | Pan-Oil |
| 20 | 98-7521 | 1 | Gasket |
| 30 | 98-7522 | 24 | Bolt-Flange |
| 40 | 98-9386 | 1 | Plug |
| 50 | 98-7524 | 1 | Gasket |
| 60 | 98-7529 | 1 | Plug-Drain |
| 70 | 98-7528 | 1 | O-Ring |
| 80 | 98-7525 | 1 | Filter-Oil |
| 90 | 100-9192 | 1 | Bolt |
| 100 | 107-0101 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

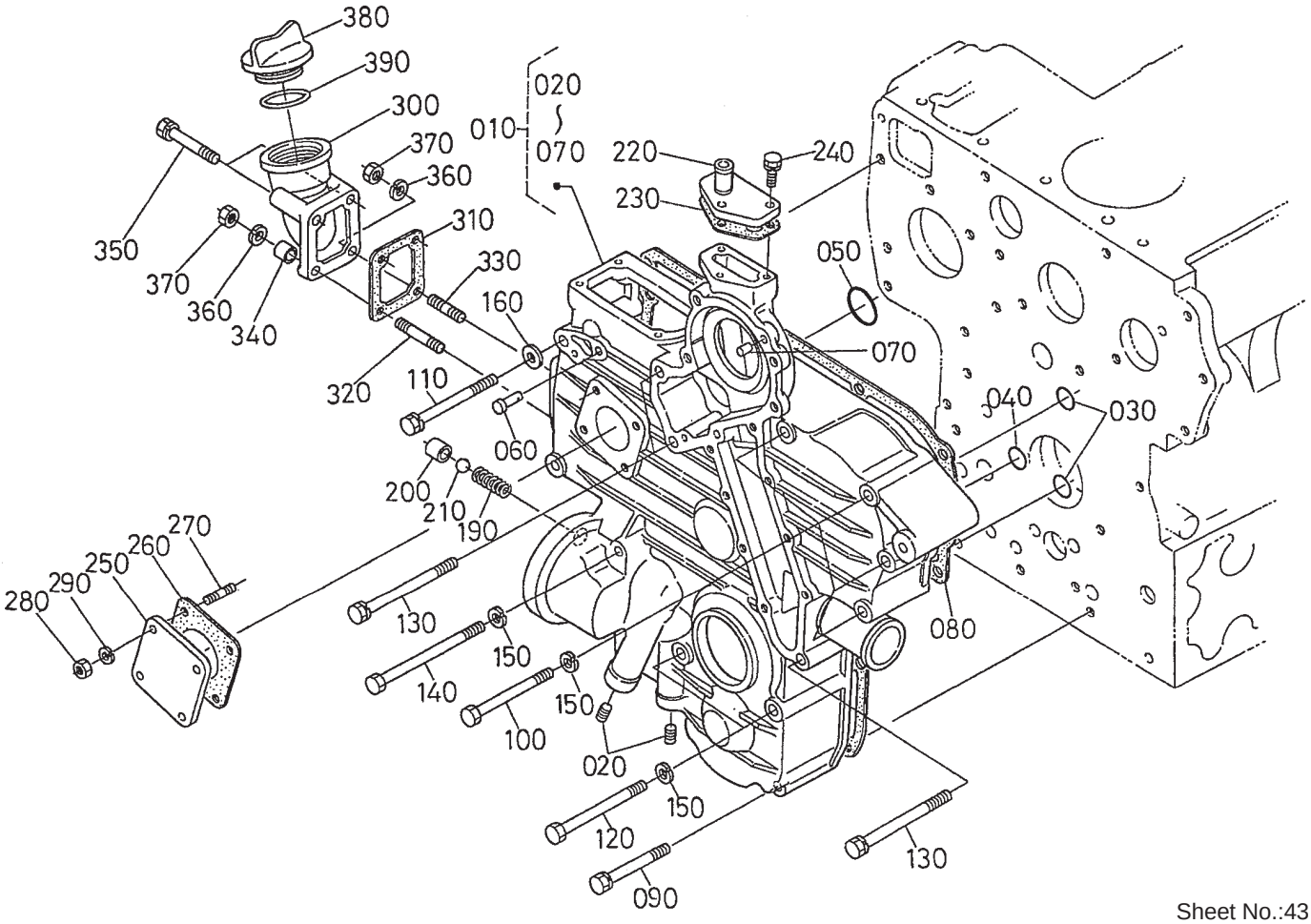



Sheet No.:42

# Cylinder Head Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7530 | 1 | Hook-Engine |
| 20 | 98-7531 | 1 | Hook-Engine |
| 30 | 100-9192 | 1 | Bolt |
| 40 | 98-7533 | 2 | Stud |
| 50 | 100-1559 | 1 | Nut-Manifold, Exhaust |
| 60 | 105-2893 | 1 | Washer-Spring |
| 70 | 98-7536 | 1 | Washer-Plain |
| 80 | 100-9159 | 1 | Head-Cylinder |
| 90 | 98-7538 | 12 | Cap-Sealing |
| 100 | 98-7539 | 1 | Cap-Sealing |
| 110 | 98-7540 | 2 | Cap-Sealing |
| 120 | 98-7541 | 4 | Plug |
| 130 | 98-7542 | 4 | Guide-V alve, Exhaust |
| 150 | 98-7543 | 18 | Bolt-Head, Cylinder |
| 160 | 100-9160 | 1 | Gasket-Head, Cylinder |
| 170 | 98-7509 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

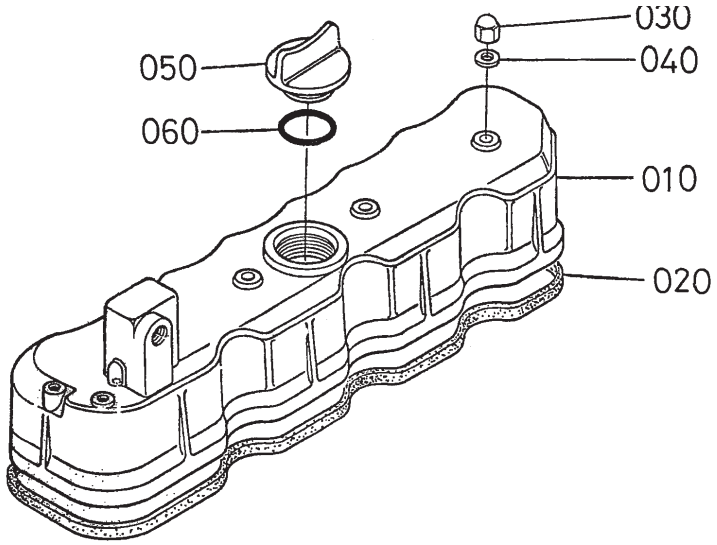



Sheet No.:43

# Gear Case Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9161 | 1 | Gearcase ASM |
| 20 | 107-0108 | 2 | Plug |
| 30 | 107-0104 | 2 | O-Ring |
| 40 | 107-0105 | 1 | O-Ring |
| 50 | 107-0106 | 1 | O-Ring |
| 60 | 98-7550 | 1 | Pin-Spring, Start |
| 70 | 98-7504 | 2 | Pin-Straight |
| 80 | 98-7552 | 1 | Packing-Case, Gear |
| 90 | 98-7553 | 2 | Bolt |
| 100 | 99-8336 | 5 | Bolt |
| 110 | 98-7555 | 1 | Bolt |
| 120 | 98-7556 | 2 | Bolt |
| 130 | 98-7557 | 3 | Bolt |
| 140 | 98-7558 | 2 | Bolt |
| 150 | 105-2893 | 9 | Washer-Spring |
| 160 | 98-7536 | 1 | Washer-Plain |
| 190 | 98-7563 | 1 | Spring |
| 200 | 98-7564 | 1 | Seat-V alve |
| 210 | 98-7565 | 1 | Ball |
| 220 | 98-7566 | 1 | Flange-Return, Water |
| 230 | 98-7567 | 1 | Gasket |
| 240 | 98-7568 | 3 | Bolt |
| 250 | 98-7569 | 1 | Cover |
| 260 | 98-7570 | 1 | Gasket-Unit, H/Meter |
| 270 | 98-7571 | 4 | Stud |
| 280 | 98-7572 | 4 | Nut |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 290 | 98-7699 | 4 | Washer-Spring |
| 300 | 100-9162 | 1 | Flange-Filter , Oil |
| 310 | 100-9163 | 1 | Gasket |
| 320 | 98-7571 | 1 | Stud |
| 330 | 100-9164 | 1 | Stud |
| 340 | 100-9165 | 1 | Collar |
| 350 | 98-7496 | 2 | Bolt |
| 360 | 98-7699 | 2 | Washer-Spring |
| 370 | 98-7572 | 2 | Nut |
| 380 | 98-7429 | 1 | Plug-Filter , Oil |
| 390 | 107-0102 | 1 | O-Ring |

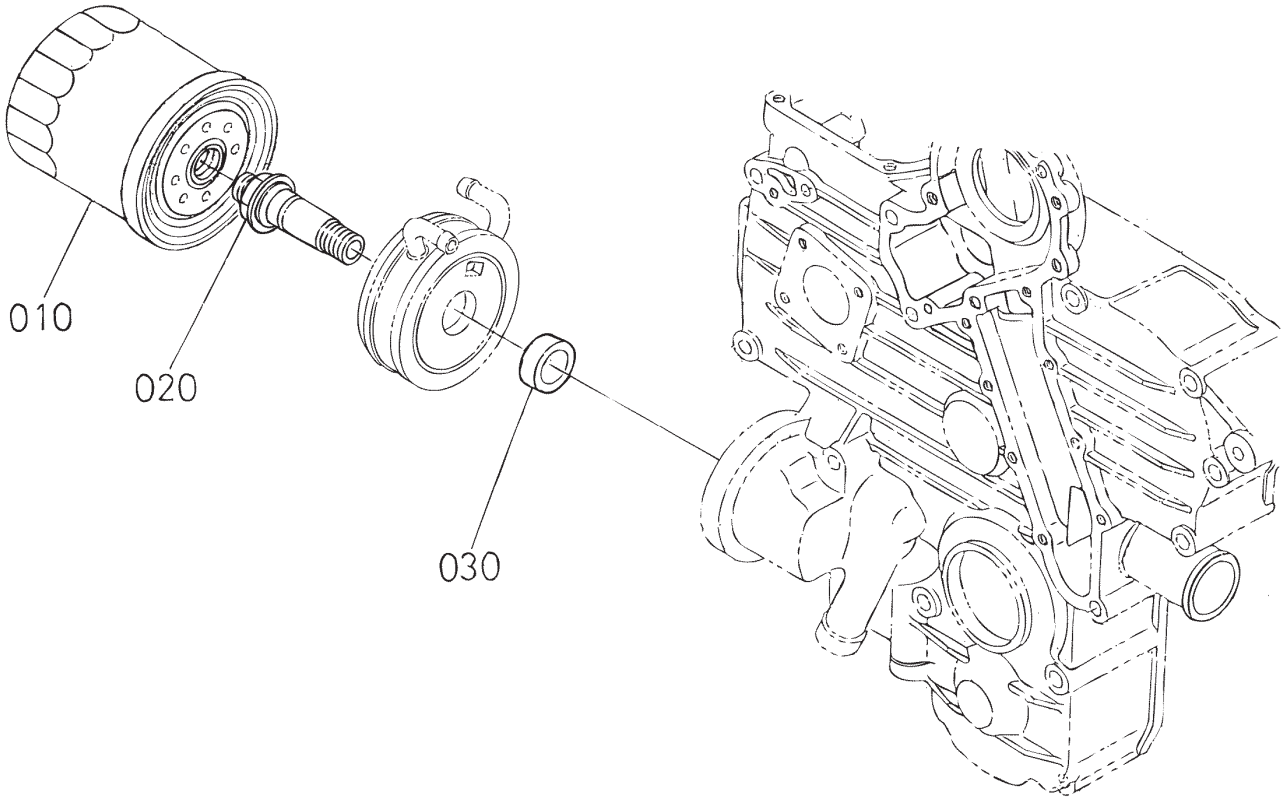



Sheet No.:44

# Head Cover Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7425 | 1 | Cover-Head, Cylinder |
| 20 | 98-7426 | 1 | Gasket-Cover , Head |
| 30 | 98-7427 | 4 | Nut-Cap |
| 40 | 98-7428 | 4 | Gasket |
| 50 | 98-7429 | 1 | Plug-Filter , Oil |
| 60 | 107-0102 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

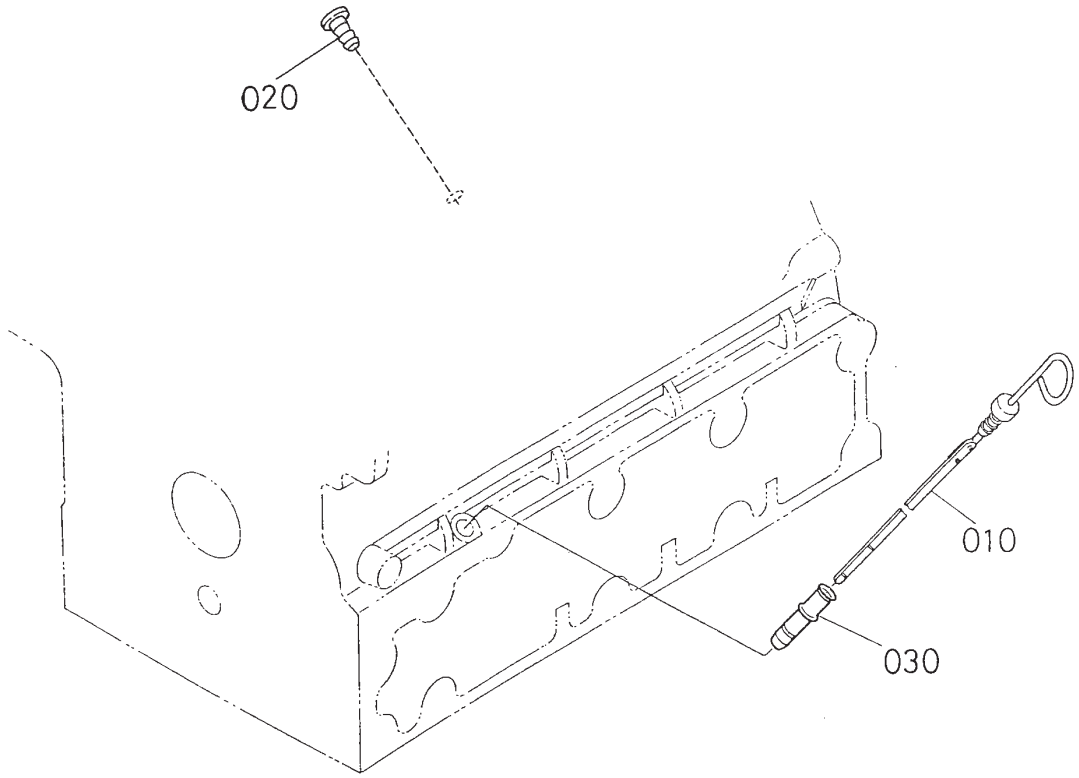



Sheet No.:45

# Oil Filter Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7431 | 1 | Cartridge-Filter , Oil |
| 20 | 100-9166 | 1 | Connector |
| 30 | 100-9167 | 1 | Collar |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

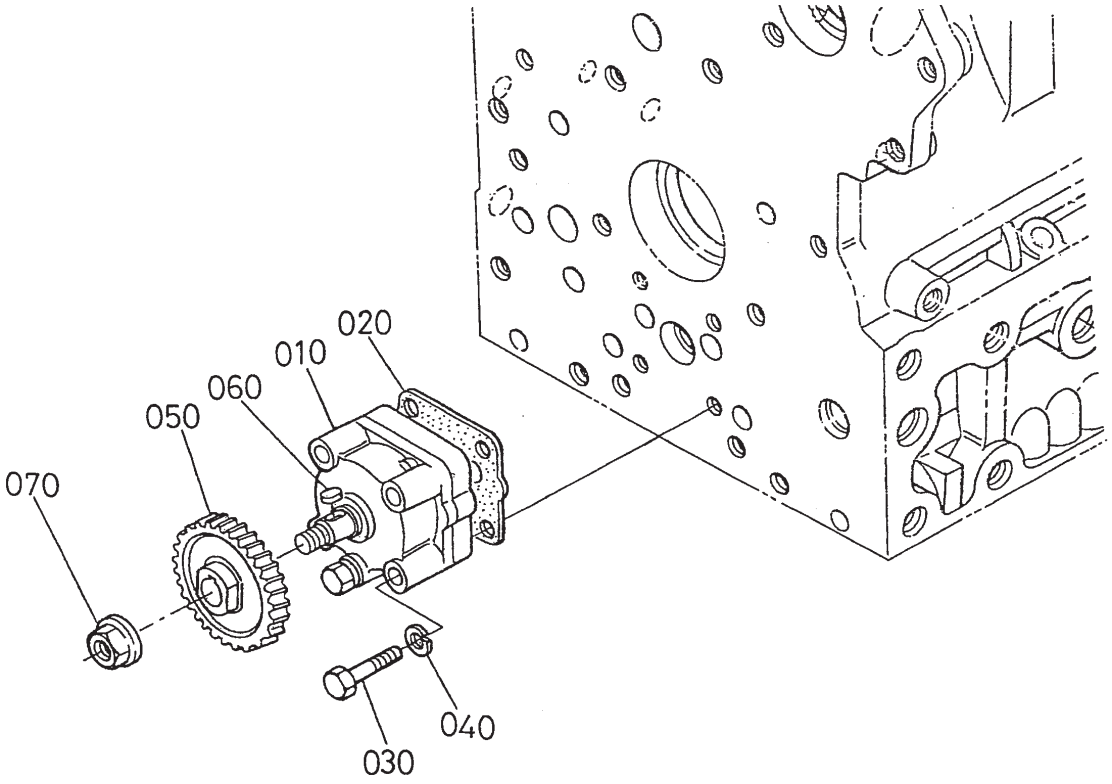



Sheet No.:46

# Dipstick and Guide Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 105-4579 | 1 | Gauge-Oil |
| 20 | 100-9169 | 1 | Plug-Gauge, Oil |
| 30 | 105-4580 | 1 | Guide |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

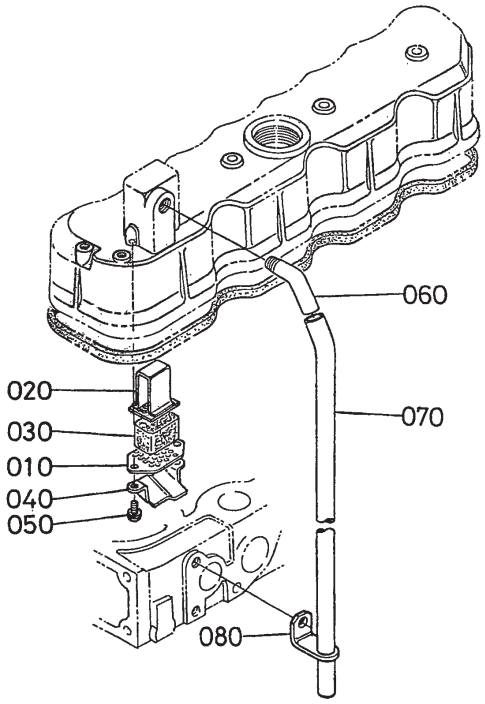



Sheet No.:47

# Oil Pump Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9170 | 1 | Oil Pump ASM |
| 20 | 98-7513 | 1 | Gasket-Pump, Oil |
| 30 | 98-7514 | 4 | Bolt |
| 40 | 98-7699 | 4 | Washer-Spring |
| 50 | 98-7516 | 1 | Gear-Drive, Oil Pump |
| 60 | 98-7517 | 1 | Key-Feather |
| 70 | 98-7518 | 1 | Nut-Flange |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

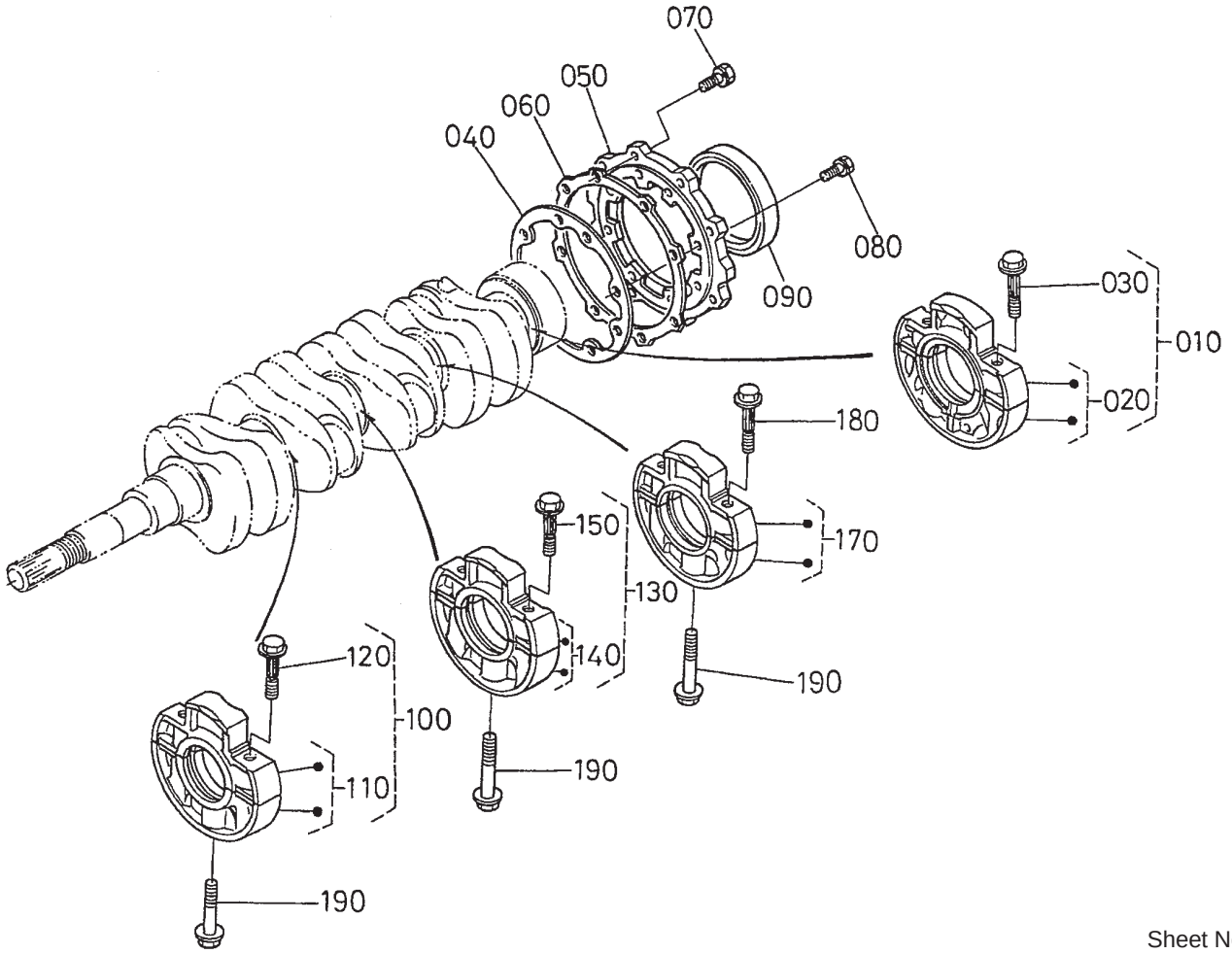



Sheet No.:48

# Breather Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7417 | 1 | Plate-Element |
| 20 | 98-7418 | 1 | Plate-Element |
| 30 | 98-7419 | 1 | Element-Breather |
| 40 | 98-7420 | 1 | Shield-Breather , Oil |
| 50 | 98-7421 | 2 | Screw-W/W asher |
| 60 | 98-7422 | 1 | Joint-Pipe, Breather |
| 70 | 98-7423 | 1 | Pipe-Breather |
| 80 | 98-7424 | 1 | Clamp-Pipe |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

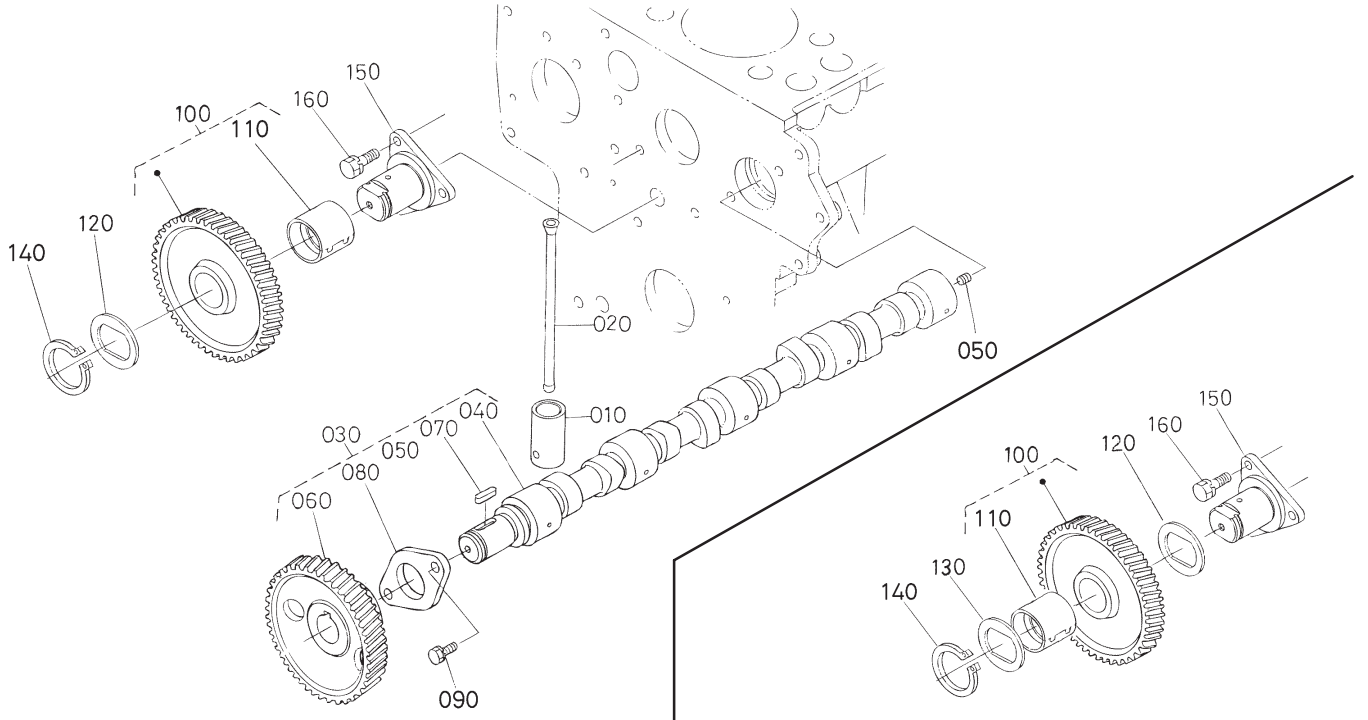



Sheet No.:49

# Main Bearing Case

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9172 | 1 | Wheel Bearing Case ASM |
| 20 | 100-9173 | 1 | Bearing Case ASM |
| 30 | 98-7434 | 2 | Bolt-Case, Bearing |
| 40 | 98-7435 | 1 | Gasket-Case, Bearing |
| 50 | 98-7436 | 1 | Cover-Case, Bearing |
| 60 | 98-7437 | 1 | Gasket-Case Cover, Bearing |
| 70 | 98-7438 | 8 | Bolt |
| 80 | 98-7439 | 8 | Bolt |
| 90 | 98-7440 | 1 | Seal-Oil |
| 100 | 100-9174 | 1 | Main Bearing Case ASM |
| 110 | 100-9175 | 1 | Bearing Case ASM |
| 120 | 98-7434 | 2 | Bolt-Case, Bearing |
| 130 | 100-9176 | 1 | Main Bearing Case ASM |
| 140 | 100-9177 | 1 | Bearing Case ASM |
| 150 | 98-7434 | 2 | Bolt-Case, Bearing |
| 170 | 100-9178 | 1 | Bearing Case ASM |
| 180 | 98-7434 | 2 | Bolt-Case, Bearing |
| 190 | 98-7444 | 3 | Bolt-Case, Bearing |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 100 | 107-0109 | (2A0001 or newer) |
| 110 | 107-01 10 | (1Y0001 or newer) |
| 120 | 107-01 11 | (1Y0001 or newer) |
| 140 | 107-01 12 | (1Y0001 or newer) |
| 150 | 107-01 13 | (1Y0001 or newer) |

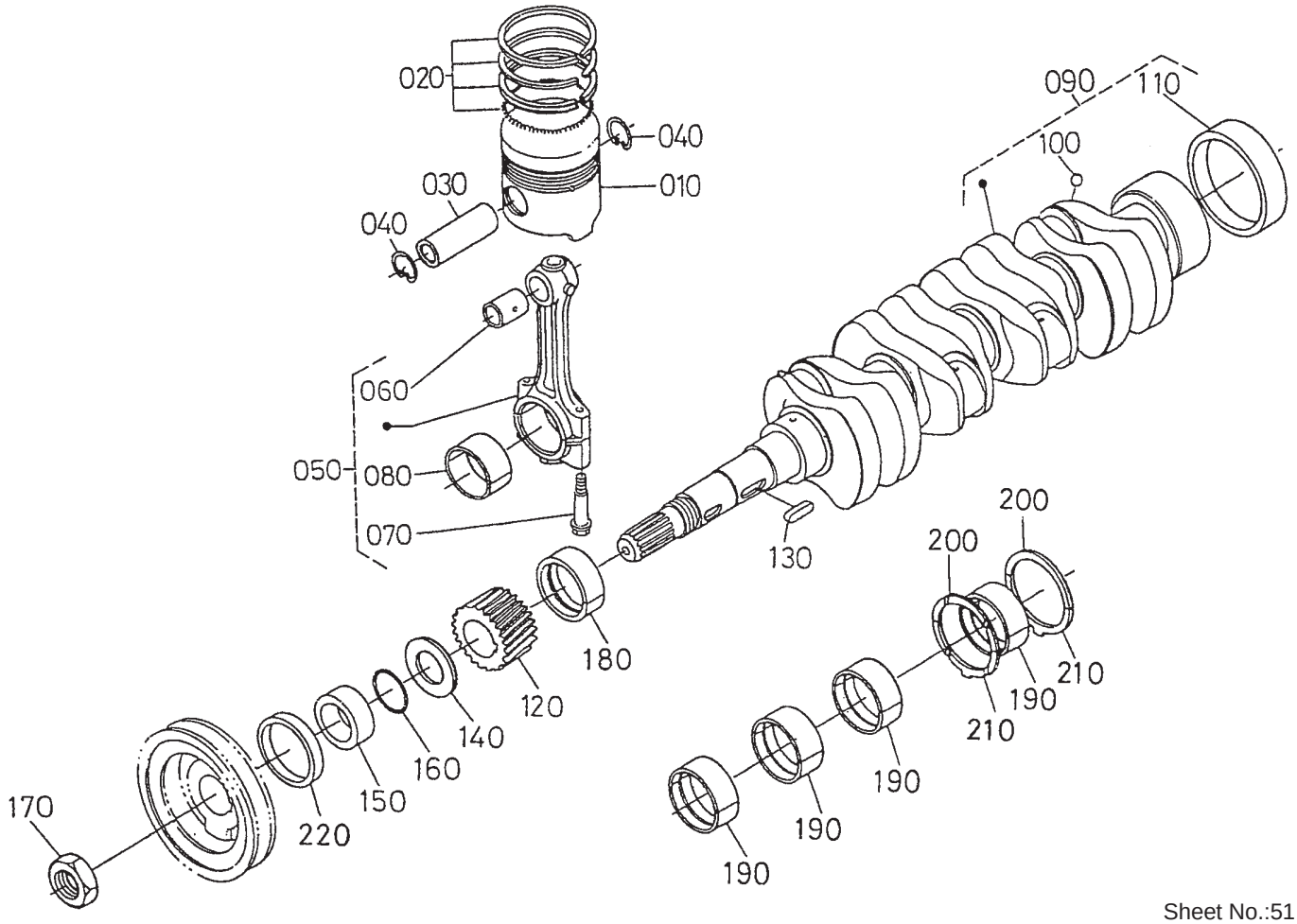
| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 100 | 98-7454 | (1W1377 or earlier) |
| 110 | 98-7455 | (1W1377 or earlier) |
| 120 | 98-7456 | (1W1377 or earlier) |
| 140 | 98-7458 | (1W1377 or earlier) |
| 150 | 98-7459 | (1W1377 or earlier) |

Sheet No.:50

# Camshaft and Idler Gear Shaft Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7445 | 8 | Tappet |
| 20 | 98-7446 | 8 | Rod-Push |
| 30 | 100-9179 | 1 | Camshaft ASM |
| 40 | 100-9180 | 1 | Camshaft |
| 50 | 98-7449 | 1 | Screw-Set |
| 60 | 98-7450 | 1 | Gear-Camshaft |
| 70 | 98-7451 | 1 | Key-Feather |
| 80 | 98-7452 | 1 | Stopper-Camshaft |
| 90 | 98-7453 | 2 | Bolt |
| 100 | 98-7454 | 1 | Gear-Idler , Complete |
| 100 | 107-0109 | 1 | Gear-Idler , Complete |
| 110 | 98-7455 | 1 | Bushing-Gear , Idler |
| 110 | 107-01 10 | 1 | Bushing-Idler Gear |
| 120 | 98-7456 | 1 | Collar |
| 120 | 107-01 11 | 1 | Collar |
| 130 | 98-7457 | 1 | Collar |
| 140 | 98-7458 | 1 | Clip-Cir ., External |
| 140 | 107-01 12 | 1 | Clip-Cir ., External |
| 150 | 98-7459 | 1 | Shaft-Gear , Idler |
| 150 | 107-01 13 | 1 | Shaft-Gear , Idler |
| 160 | 98-7453 | 3 | Bolt |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

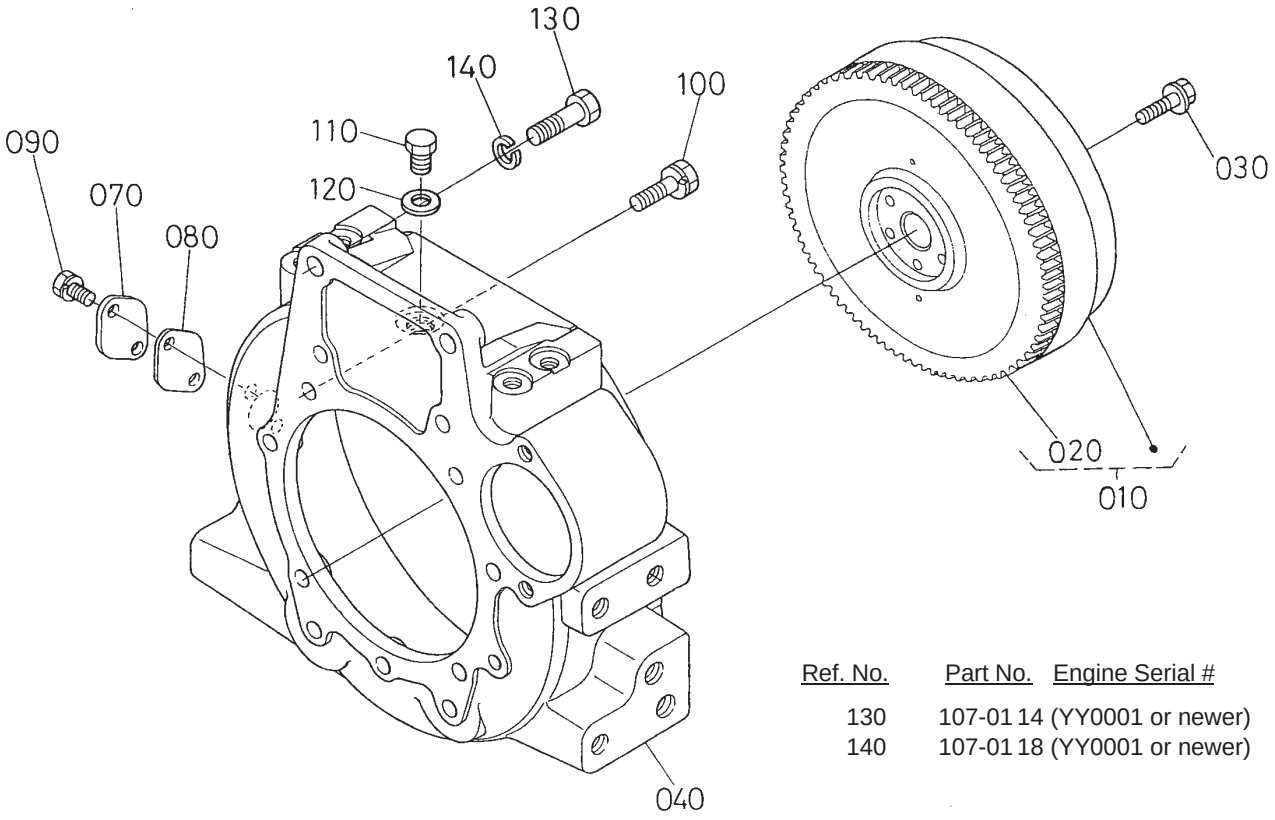



Sheet No.:51

# Piston and Crankshaft Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 99-5435 | 1 | Piston (.50mm) |
| 10 | 100-9181 | 4 | Piston-STD |
| 20 | 100-9182 | 4 | Piston Ring ASM (STD) |
| 20 | 99-5436 | 1 | Piston Ring ASM (0.50mm) |
| 30 | 98-7464 | 4 | Pin-Piston |
| 40 | 98-7465 | 8 | Clip-Pin, Piston |
| 50 | 98-7466 | 4 | Connecting Rod ASM |
| 60 | 98-7467 | 4 | Bushing-Pin, Piston |
| 70 | 98-7468 | 8 | Bolt-Rod, Connecting |
| 80 | 98-7470 | 4 | Metal-Crankpin (-0.20mm) |
| 80 | 98-7471 | 4 | Metal-Crankpin (-0.40mm) |
| 80 | 98-7469 | 4 | Metal-Crankpin (STD) |
| 90 | 98-7472 | 1 | Crankshaft-Complete |
| 100 | 98-7473 | 4 | Ball |
| 110 | 98-7474 | 1 | Sleeve-Crankshaft |
| 120 | 98-7475 | 1 | Gear-Crankshaft |
| 130 | 98-7451 | 1 | Key-Feather |
| 140 | 98-7476 | 1 | Slinger-Oil |
| 150 | 98-7477 | 1 | Collar-Crankshaht |
| 160 | 98-7478 | 1 | O-Ring |
| 170 | 98-7479 | 1 | Nut-Crankshaft |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 180 | 98-7481 | 1 | Metal-Crankshaft (STD) |
| 180 | 98-7482 | 1 | Metal-Crankshaft (-0.20mm) |
| 180 | 98-7483 | 1 | Metal-Crankshaft (-0.40mm) |
| 190 | 98-7484 | 4 | Metal-Crankshaft (STD) |
| 190 | 99-6862 | 4 | Metal-Crankshaft (-0.20mm) |
| 190 | 99-6863 | 4 | Metal-Crankshaft (-0.40mm) |
| 200 | 99-6864 | 2 | Metal-Side (STD) |
| 200 | 98-9414 | 2 | Bearing-Thrust (0.2mm) |
| 200 | 98-9415 | 2 | Bearing-Thrust (0.4mm) |
| 210 | 99-6867 | 2 | Metal-Side (STD) |
| 210 | 98-9689 | 2 | Bearing-Thrust (0.2mm) |
| 210 | 99-6869 | 2 | Metal-Side, O/S (0.4mm) |
| 220 | 98-7480 | 1 | Seal-Oil |



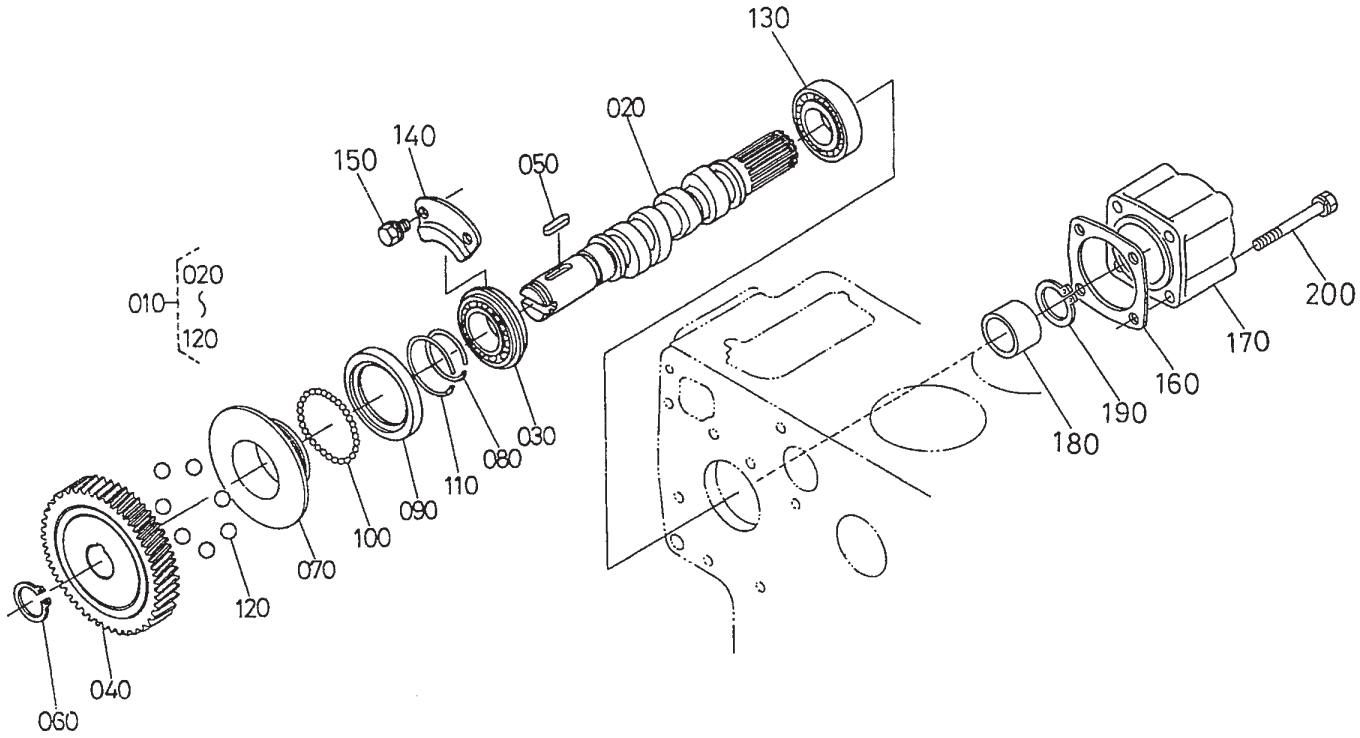

| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 130 | 107-01 14 | (YY0001 or newer) |
| 140 | 107-01 18 | (YY0001 or newer) |

Sheet No.:52

# Flywheel Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7532 | 1 | Flywheel |
| 20 | 98-7560 | 1 | Gear-Ring |
| 30 | 98-7573 | 6 | Bolt-Flywheel |
| 40 | 98-7559 | 1 | Housing-Flywheel |
| 70 | 98-7883 | 1 | Cover |
| 80 | 98-7886 | 1 | Gasket |
| 90 | 105-4577 | 2 | Bolt |
| 100 | 98-7885 | 11 | Bolt |
| 110 | 98-7546 | 1 | Plug |
| 120 | 100-9194 | 1 | Washer-Plain |
| 130 | 107-01 14 | 2 | Bolt |
| 140 | 107-01 18 | 2 | Washer-Spring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

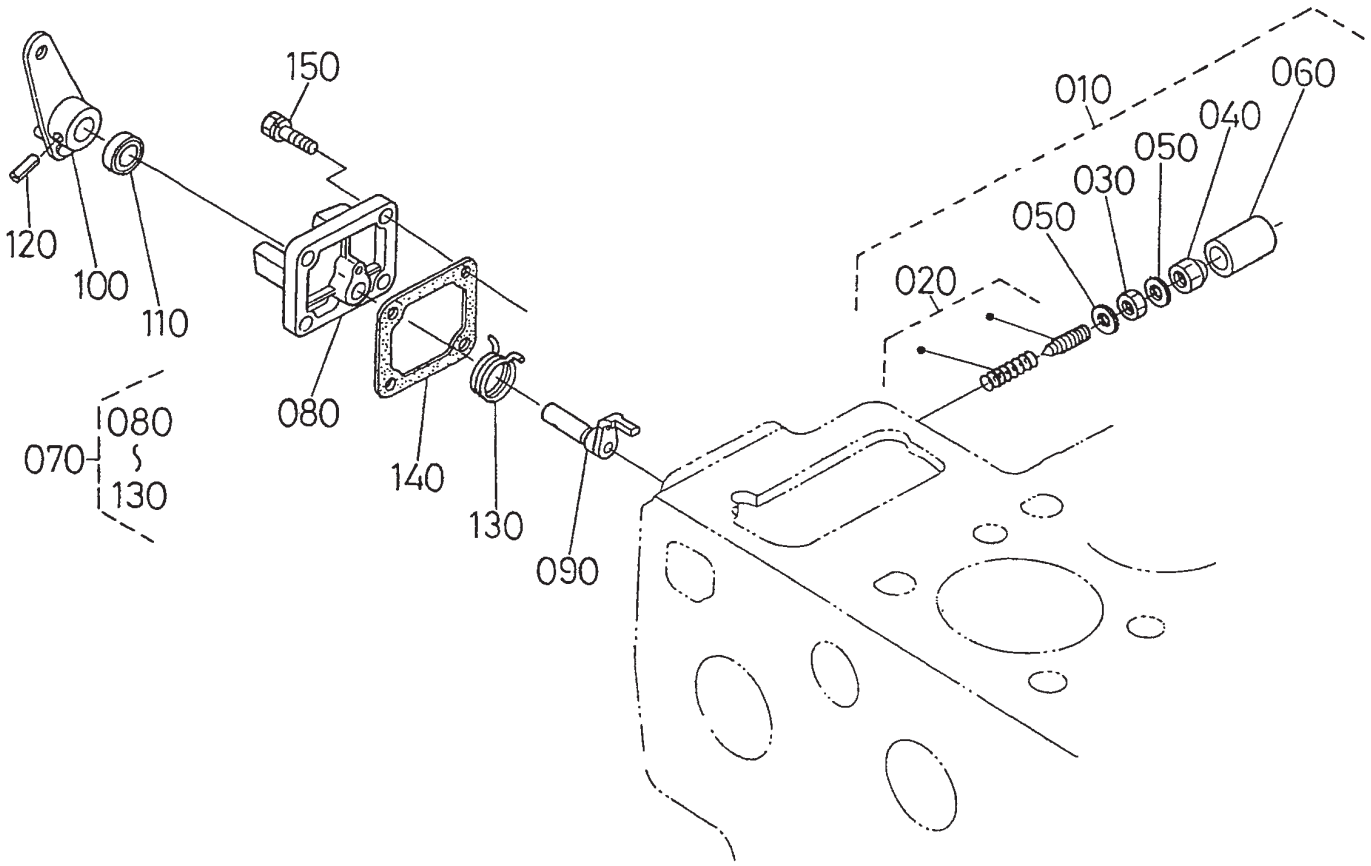



Sheet No.:53

# Fuel Camshaft and Governor Shaft Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7551 | 1 | Fuel Camshaft ASM |
| 20 | 98-7508 | 1 | Camshaft-Fuel |
| 30 | 98-7595 | 1 | Bearing-Ball |
| 40 | 98-7574 | 1 | Gear-Pump, Injection |
| 50 | 98-7575 | 1 | Key-Feather |
| 60 | 98-7576 | 1 | Clip-Cir., External |
| 70 | 98-7577 | 1 | Sleeve-Governor |
| 80 | 98-7578 | 1 | Clip-Cir., Governor Sleeve |
| 90 | 98-7579 | 1 | Case-Ball, Governor |
| 100 | 98-7580 | 39 | Ball |
| 110 | 98-7581 | 1 | Clip-Cir. |
| 120 | 98-7582 | 7 | Ball |
| 130 | 98-7583 | 1 | Bearing-Ball |
| 140 | 98-7584 | 1 | Stopper |
| 150 | 100-9195 | 2 | Bolt |
| 160 | 98-7588 | 1 | Gasket |
| 170 | 98-7586 | 1 | Cover-Fuel, Camshaft |
| 180 | 98-7587 | 1 | Collar |
| 190 | 98-7589 | 1 | Clip-Cir., External |
| 200 | 98-7590 | 4 | Bolt |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

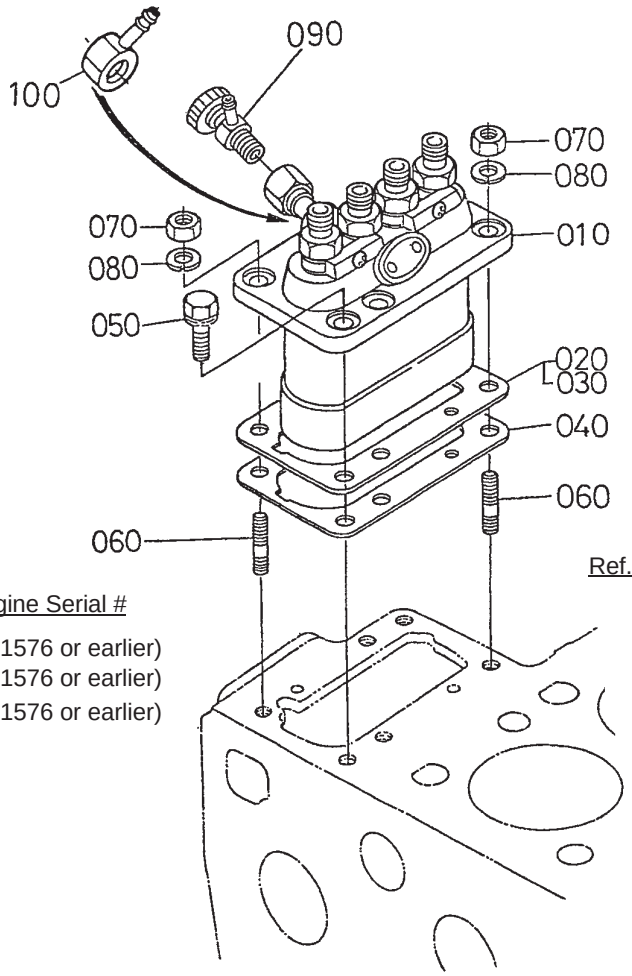



Sheet No.:54

# Engine Stop Lever Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7591 | 1 | I/D Appartus ASM |
| 20 | 98-7592 | 1 | Adjusting Bolt ASM |
| 30 | 98-7593 | 1 | Nut |
| 40 | 98-7594 | 1 | Nut-Cap |
| 50 | 98-7428 | 2 | Gasket |
| 60 | 98-7596 | 1 | Cap |
| 70 | 100-9198 | 1 | Eng Stop Lever ASM |
| 80 | 98-7598 | 1 | Cover-Pump, Injection |
| 90 | 100-9200 | 1 | Shaft-Lever |
| 100 | 98-7600 | 1 | Lever-Stop, Engine |
| 110 | 98-7601 | 1 | Seal-Oil |
| 120 | 98-7602 | 1 | Pin-Spring |
| 130 | 98-7603 | 1 | Spring-Return |
| 140 | 98-7604 | 1 | Gasket-Cover , Pump |
| 150 | 98-7605 | 4 | Bolt |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 020 | 98-7607 | (2G1576 or earlier) |
| 030 | 98-7608 | (2G1576 or earlier) |
| 040 | 98-7609 | (2G1576 or earlier) |

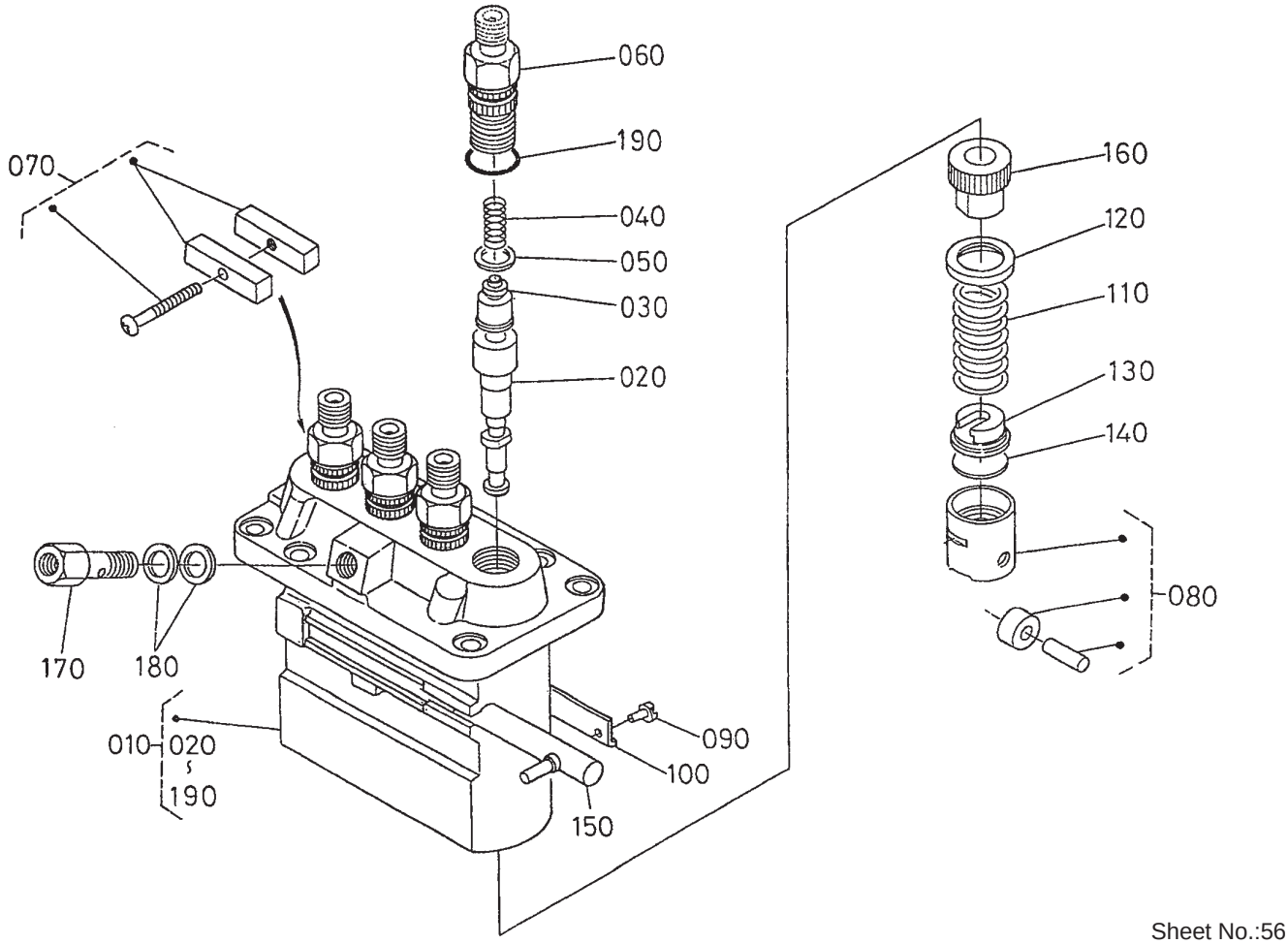
| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 020 | 107-0146 | (2J0001 or newer) |
| 030 | 107-0147 | (2J0001 or newer) |
| 040 | 107-0148 | (2J0001 or newer) |

Sheet No.:55

# Injection Pump Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9201 | 1 | Injection Pump ASM |
| 20 | 107-0146 | 1 | Shim |
| 20 | 98-7607 | 1 | Shim |
| 30 | 107-0147 | 1 | Shim |
| 30 | 98-7608 | 1 | Shim |
| 40 | 107-0148 | 1 | Shim |
| 40 | 98-7609 | 1 | Shim-Pump, Injection |
| 50 | 98-7610 | 4 | Bolt |
| 60 | 100-1558 | 2 | Stud-Manifold, Exhaust |
| 70 | 98-7534 | 2 | Nut |
| 80 | 105-2893 | 2 | Washer-Spring |
| 90 | 100-9202 | 1 | Jet Start Cock ASM |
| 100 | 98-7617 | 1 | Joint |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

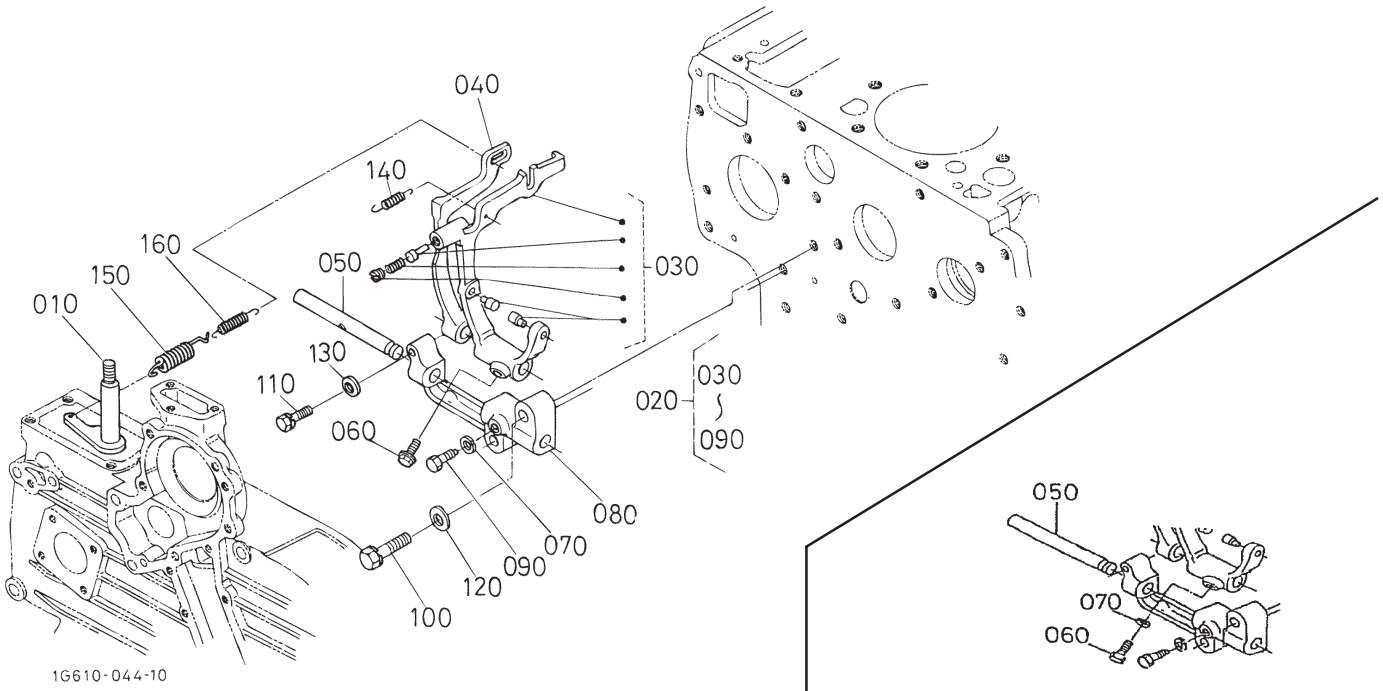



Sheet No.:56

# Injection Pump Component Parts Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9201 | 1 | Injection Pump ASM |
| 20 | 98-7619 | 4 | Plunger-Pump |
| 30 | 98-7620 | 4 | Valve-Delivery |
| 40 | 98-7621 | 4 | Spring-V alve, Delivery |
| 50 | 98-7622 | 4 | Gasket-V alve, Delivery |
| 60 | 98-7623 | 4 | Holder-V alve, Delivery |
| 70 | 98-7624 | 2 | Lock Plate ASM |
| 80 | 98-7625 | 4 | Tappet ASM |
| 90 | 98-7626 | 4 | Pin-Guide, Tappet |
| 100 | 98-7627 | 2 | Plate |
| 110 | 98-7628 | 4 | Spring-Plunger |
| 120 | 98-7629 | 4 | Seat-Spring, Upper |
| 130 | 98-7630 | 4 | Seat-Spring, Lower |
| 140 | 98-7631 | 4 | Shim |
| 150 | 98-7632 | 1 | Rack-Control |
| 160 | 98-7634 | 4 | Sleeve-Control |
| 170 | 98-7635 | 1 | Screw |
| 180 | 98-7636 | 2 | Gasket |
| 190 | 98-7637 | 4 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 050 | 107-0120 | (2C0001 or newer) |
| 060 | 107-01 16 | (2C0001 or newer) |
| 070 | 98-7699 | (2C0001 or newer) (Qty. 1) |

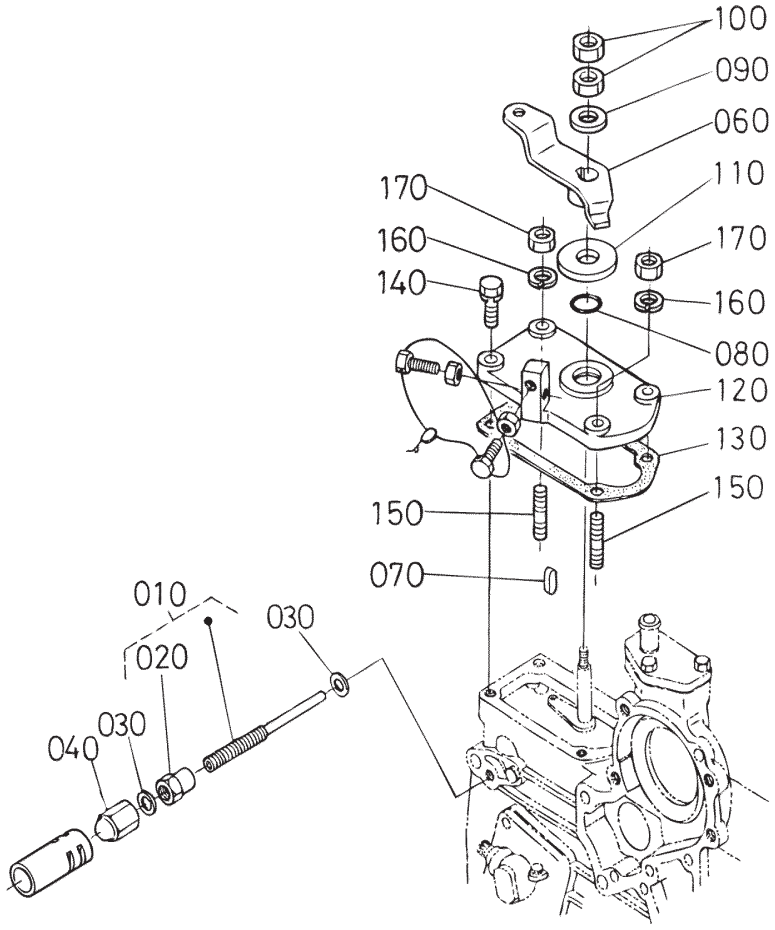
| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 050 | 98-7640 | (2A1266 or earlier) |
| 060 | 98-7641 | (2A1266 or earlier) |
| 070 | 98-7699 | (2A1266 or earlier) (Qty. 2) |

Sheet No.:57

# Governor Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7638 | 1 | Lever-Governor |
| 20 | 100-9204 | 1 | Lever-Fork |
| 30 | 100-9205 | 1 | Lever-Fork |
| 40 | 100-9206 | 1 | Lever-Fork |
| 50 | 107-0120 | 1 | Shaft-Lever , Fork |
| 50 | 98-7640 | 1 | Shaft-Lever , Fork |
| 60 | 107-01 16 | 1 | Bolt-Flange |
| 60 | 98-7641 | 1 | Bolt-Shaft, Lever |
| 70 | 98-7699 | 1 | Washer-Spring |
| 70 | 98-7699 | 2 | Washer-Spring |
| 80 | 98-7643 | 1 | Holder-Lever , Fork |
| 90 | 98-7644 | 1 | Bolt |
| 100 | 98-7645 | 2 | Bolt |
| 110 | 98-7646 | 1 | Bolt |
| 120 | 98-7536 | 2 | Washer-Plain |
| 130 | 98-7648 | 1 | Washer-Plain |
| 140 | 100-9207 | 1 | Spring-Start |
| 150 | 100-9208 | 1 | Spring-Governor |
| 160 | 98-7651 | 1 | Spring-Governor |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

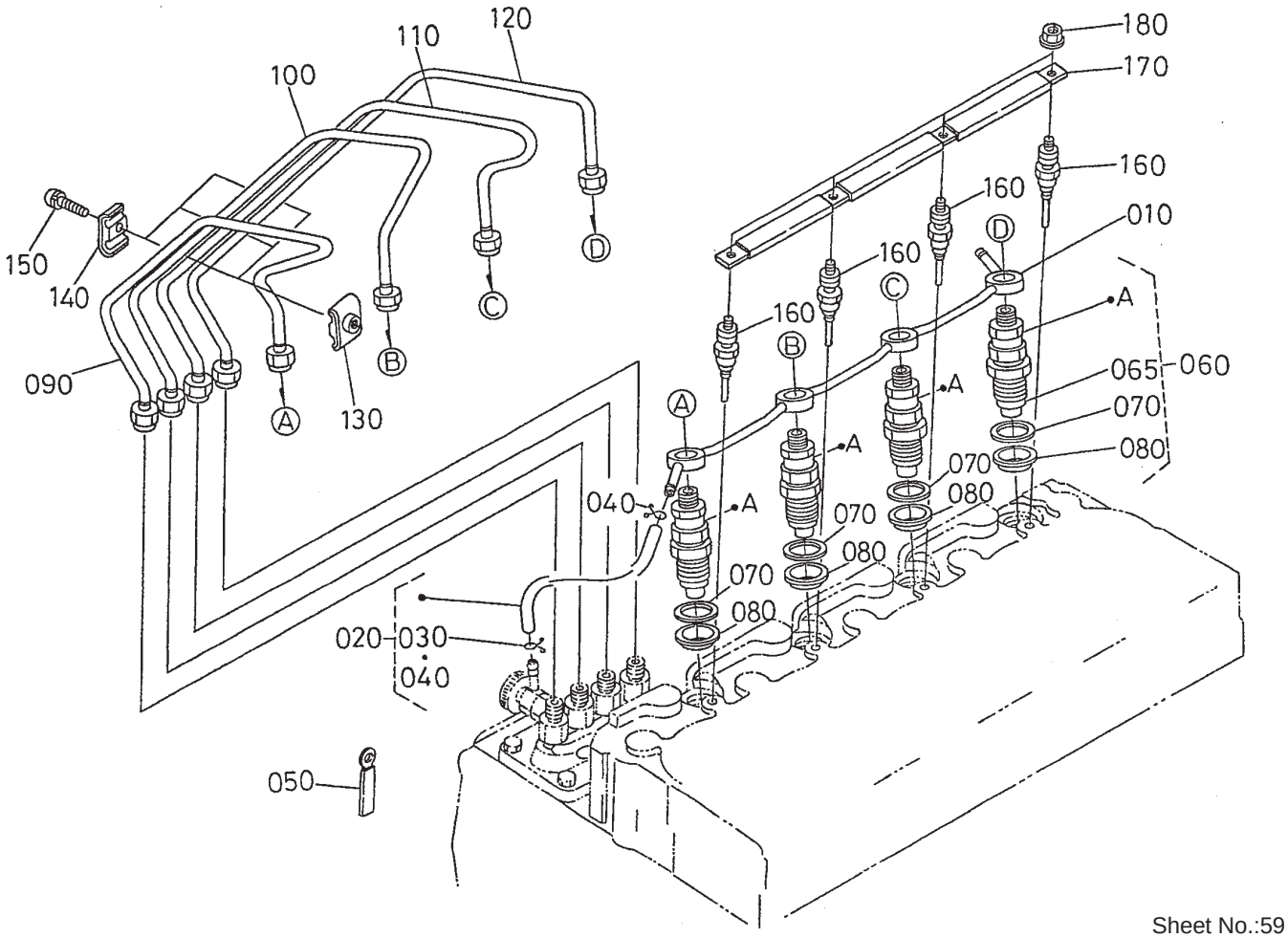



Sheet No.:58

# Speed Control Plate Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 107-0132 | 1 | Adjustable Bolt ASM |
| 20 | 98-7653 | 1 | Nut |
| 30 | 98-7654 | 2 | Gasket |
| 40 | 98-7655 | 1 | Nut-Cap |
| 60 | 98-7657 | 1 | Lever-Control, Speed |
| 70 | 98-7658 | 1 | Key-Feather |
| 80 | 107-0103 | 1 | O-Ring |
| 90 | 98-7698 | 1 | Washer-Plain |
| 100 | 98-7661 | 2 | Nut |
| 110 | 98-7662 | 1 | Collar |
| 120 | 98-7663 | 1 | Plate-Control, Speed |
| 130 | 98-7664 | 1 | Gasket |
| 140 | 98-7568 | 2 | Bolt |
| 150 | 98-7571 | 2 | Stud |
| 160 | 98-7699 | 2 | Washer-Spring |
| 170 | 98-7572 | 4 | Nut |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

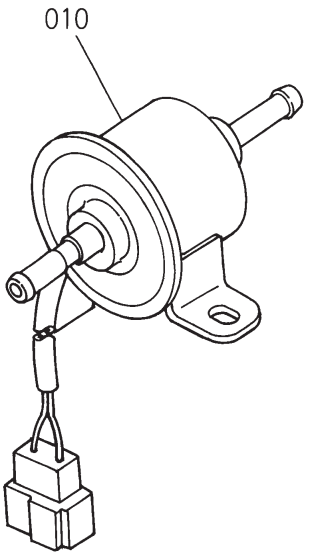


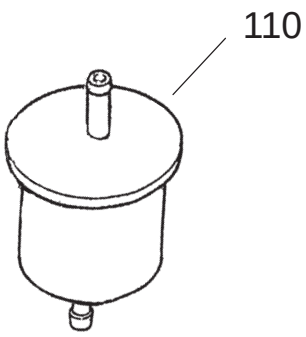

Sheet No.:59

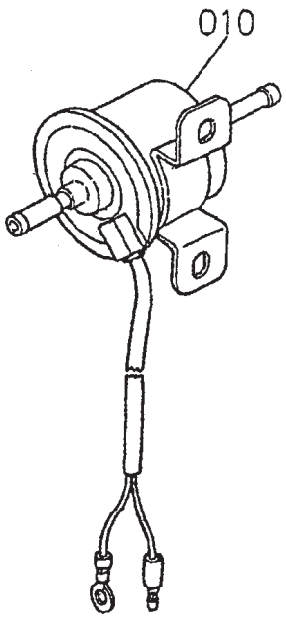
# Nozzle Holder and Glow Plug Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9213 | 1 | Overflow Pipe ASM |
| 20 | 98-7670 | 1 | Overflow Pipe ASM |
| 30 | 98-7671 | 1 | Clip-Pipe |
| 40 | 98-7672 | 1 | Clip-Pipe |
| 50 | 98-7673 | 1 | Clamp-Cord |
| 60 | 100-9214 | 1 | Nozzle Holder Kit |
| 65 | 100-9215 | 4 | Piece-Nozzle |
| 70 | 98-7676 | 4 | Gasket |
| 80 | 98-7677 | 4 | Seal |
| 90 | 100-9216 | 1 | Pipe-Injection |
| 100 | 100-9217 | 1 | Pipe-Injection |
| 110 | 100-9218 | 1 | Pipe-Injection |
| 120 | 100-9219 | 1 | Pipe-Injection |
| 130 | 98-7682 | 3 | Clamp-Pipe |
| 140 | 98-7683 | 3 | Clamp-Pipe |
| 150 | 98-9364 | 3 | Screw-W/W asher |
| 160 | 98-7685 | 4 | Plug-Glow |
| 170 | 98-7686 | 1 | Cord-Plug, Glow |
| 180 | 99-8377 | 4 | Nut-Flange |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 010 | 107-0122 | (2S0001 or newer) |

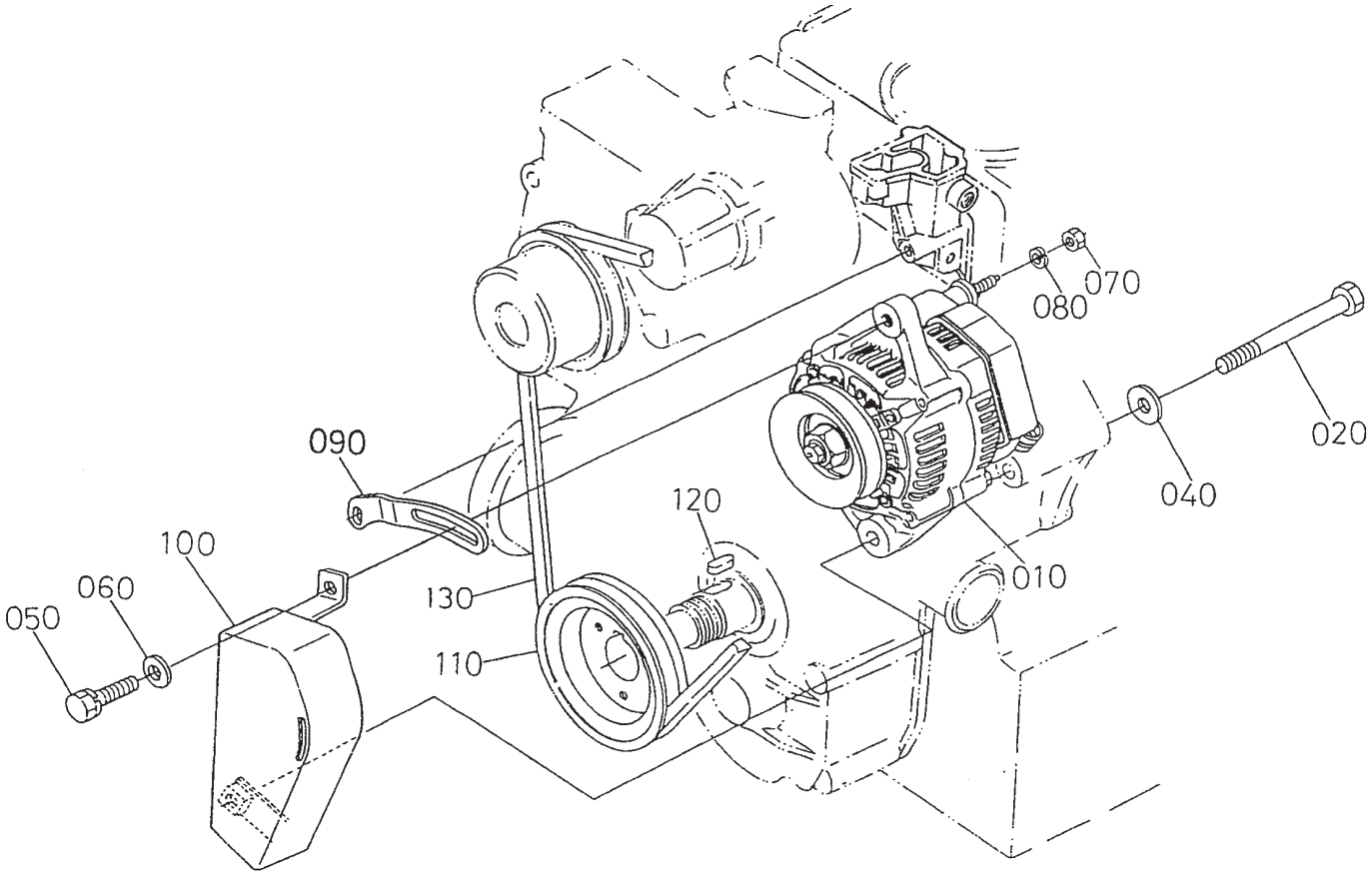
| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 010 | 99-3464 | (1U1056 or earlier) |

Sheet No.:60

# Fuel Filter and Fuel Pump

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 99-3464 | 1 | Pump-Fuel |
| 10 | 107-0122 | 1 | Pump-Fuel |
| 110 | 98-7612 | 1 | Filter-Fuel |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

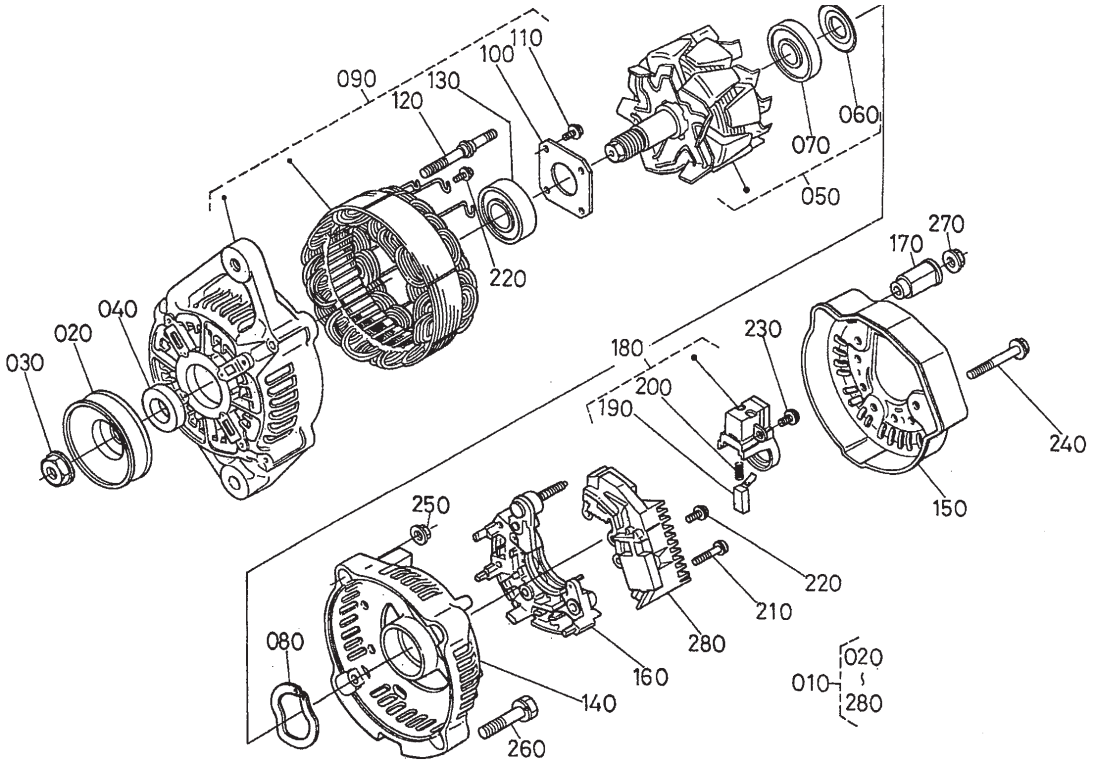



Sheet No.:61

# Alternator and Pulley Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 107-0145 | 1 | Alternator ASM |
| 20 | 98-7695 | 1 | Bolt |
| 40 | 98-9366 | 1 | Washer-Plain |
| 50 | 98-7697 | 1 | Bolt |
| 60 | 100-9233 | 1 | Washer-Plain |
| 70 | 98-7572 | 1 | Nut |
| 80 | 98-7699 | 1 | Washer-Spring |
| 90 | 105-2872 | 1 | Bracket-Alternator |
| 100 | 98-7701 | 1 | Cover-Belt |
| 110 | 106-2044 | 1 | Pulley-Drive, Fan |
| 120 | 98-7451 | 1 | Key-Feather |
| 130 | 98-7705 | 1 | V-Belt |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 090 | 98-7714 | (1Q1216 or earlier) |
| 150 | 98-7720 | (1Q1216 or earlier) |
| 180 | 98-7723 | (1Q1216 or earlier) |

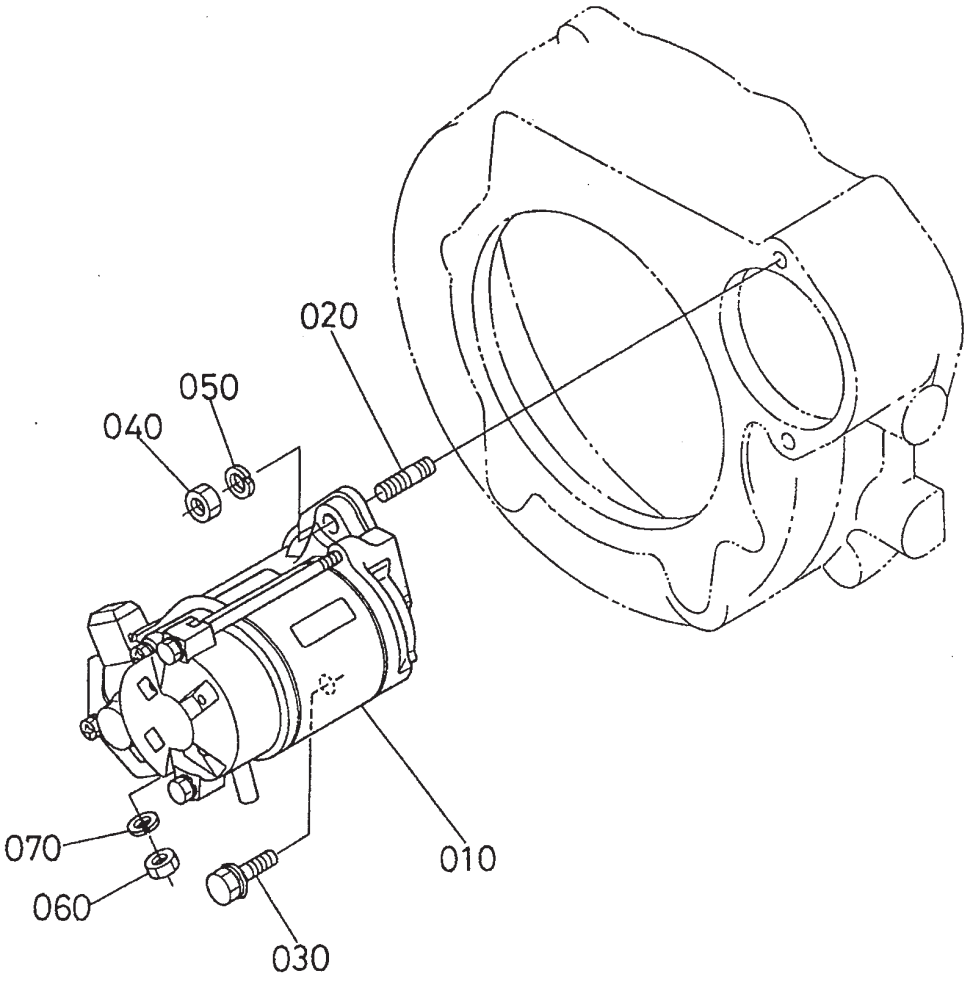
| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 090 | 107-0139 | (1S0001 or newer) |
| 150 | 107-0140 | (1S0001 or newer) |
| 180 | 107-0141 | (1S0001 or newer) |

Sheet No.:62

# Alternator Component Parts Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 107-0145 | 1 | Alternator ASM |
| 20 | 98-7707 | 1 | Pulley-Alternator |
| 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 |
| 90 | 98-7714 | 1 | Frame-End, Drive |
| 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 | 98-7719 | 1 | Frame-End |
| 150 | 98-7720 | 1 | Cover-End |
| 150 | 107-0140 | 1 | Cover-End |
| 160 | 98-7721 | 1 | Rectifier ASM |
| 170 | 98-7722 | 1 | Bushing-Insulation |
| 180 | 98-7723 | 1 | Holder-Brush |
| 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 |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 240 | 98-7729 | 3 | Bolt |
| 250 | 98-7730 | 2 | Nut |
| 260 | 98-7731 | 2 | Bolt |
| 270 | 98-7732 | 1 | Nut |
| 280 | 98-7733 | 1 | Regulator ASM |

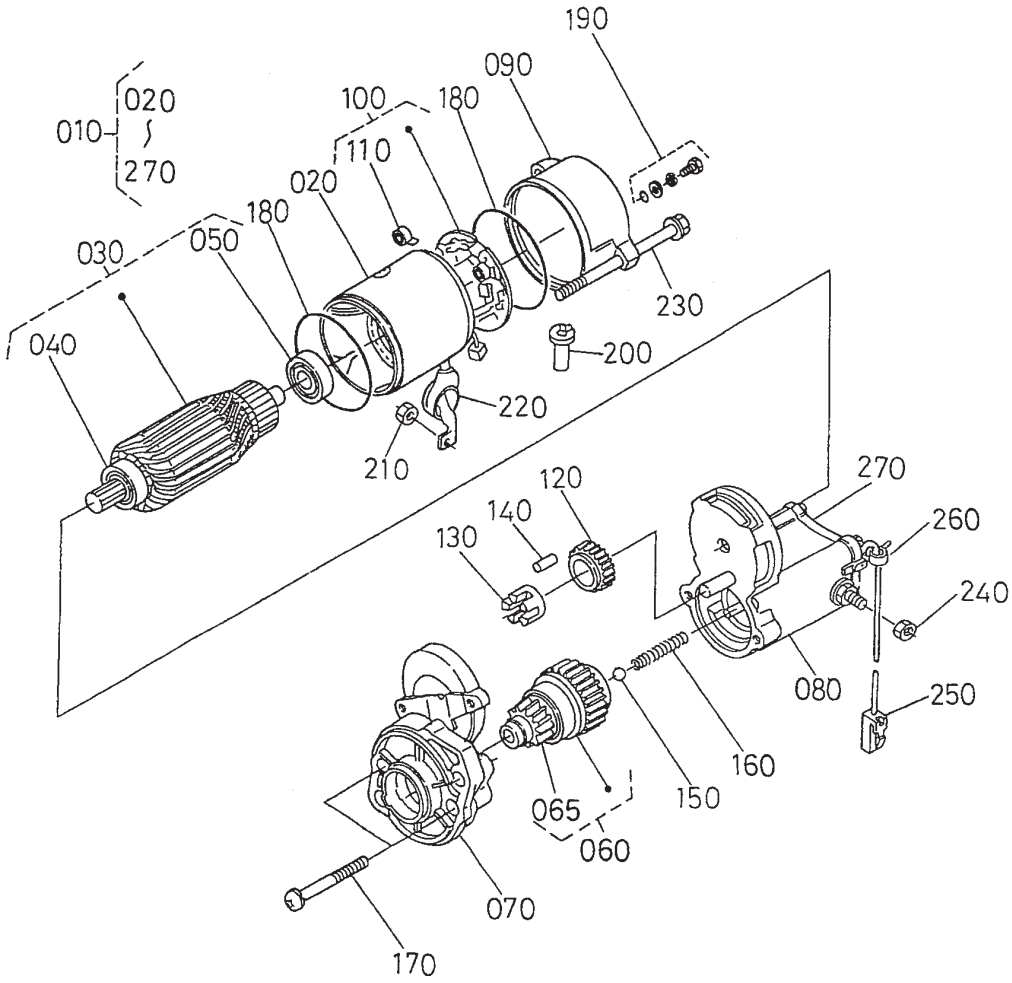



Sheet No.:63

# Starter Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9237 | 1 | Starter ASM |
| 20 | 98-7735 | 1 | Stud |
| 30 | 98-7736 | 1 | Bolt |
| 40 | 98-7737 | 1 | Nut |
| 50 | 98-7738 | 1 | Washer-Spring |
| 60 | 98-7739 | 1 | Nut |
| 70 | 105-2893 | 1 | Washer-Spring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

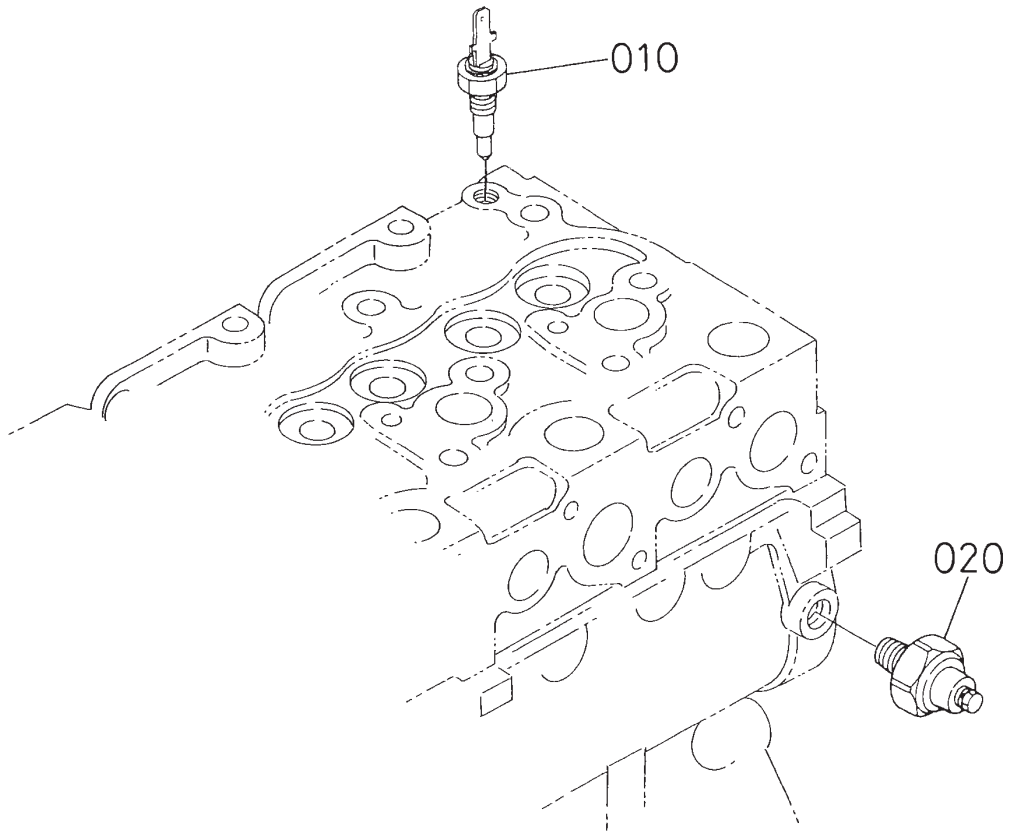



Sheet No.:64

# Starter Component Parts Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9237 | 1 | Starter ASM |
| 20 | 104-8608 | 1 | Yoke ASM |
| 30 | 98-7742 | 1 | Armature ASM |
| 40 | 98-7744 | 1 | Bearing |
| 50 | 98-7743 | 1 | Bearing |
| 60 | 98-7745 | 1 | Clutch-Running, Over |
| 65 | 105-2887 | 1 | Pinion-Bevel |
| 70 | 98-7746 | 1 | Frame-End, Drive |
| 80 | 100-9239 | 1 | Magentic Switch ASM |
| 90 | 98-7748 | 1 | Frame-End |
| 100 | 98-7749 | 1 | Brush Holder ASM |
| 110 | 98-7750 | 4 | Spring-Brush |
| 120 | 98-7751 | 1 | Gear |
| 130 | 98-7752 | 1 | Retainer |
| 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 | 105-2873 | 1 | Nut |
| 220 | 99-8375 | 1 | Cover |
| 230 | 100-9240 | 2 | Bolt |
| 240 | 99-8376 | 1 | Nut-Hex |
| 250 | 98-9711 | 1 | Cord-Solenoid, Stop |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 260 | 98-9712 | 1 | Band-Cover |
| 270 | 105-2886 | 1 | Cover ASM |



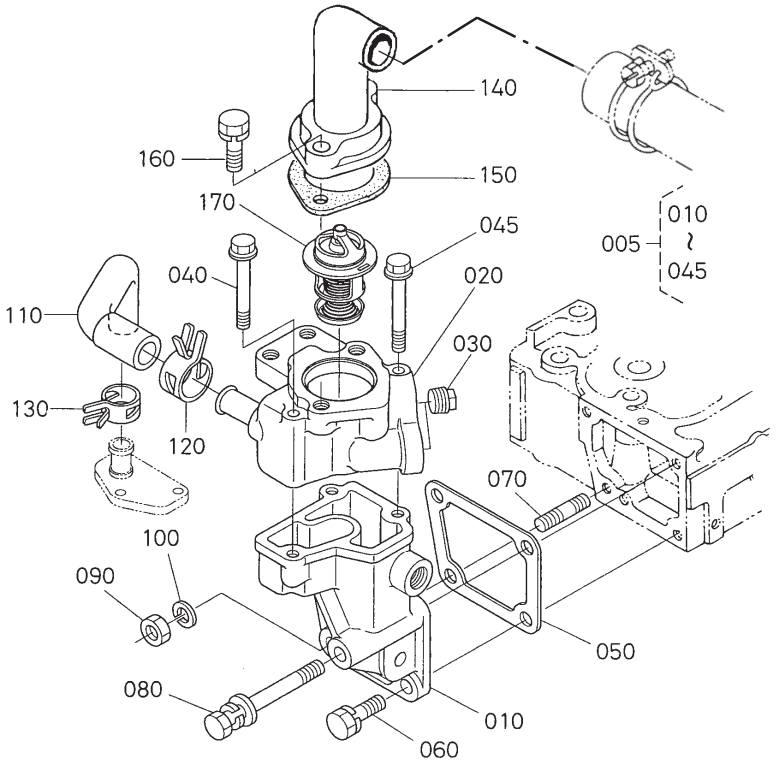

Sheet No.:65

# Oil Switch / Thermometer and Plug Assembly

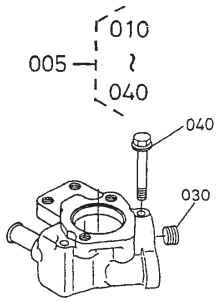
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 99-3582 | 1 | Thermoswitch |
| 20 | 98-7764 | 1 | Switch-Oil |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

3329-243




| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 020 | 107-0144 | (1N0001 or newer) |
| 040 | 105-2875 | (1E0001 or newer) (Qty. 2) |
| 045 | 107-01 17 | (1E0001 or newer) |
| 080 | 107-01 15 | (1U0001 or newer) |



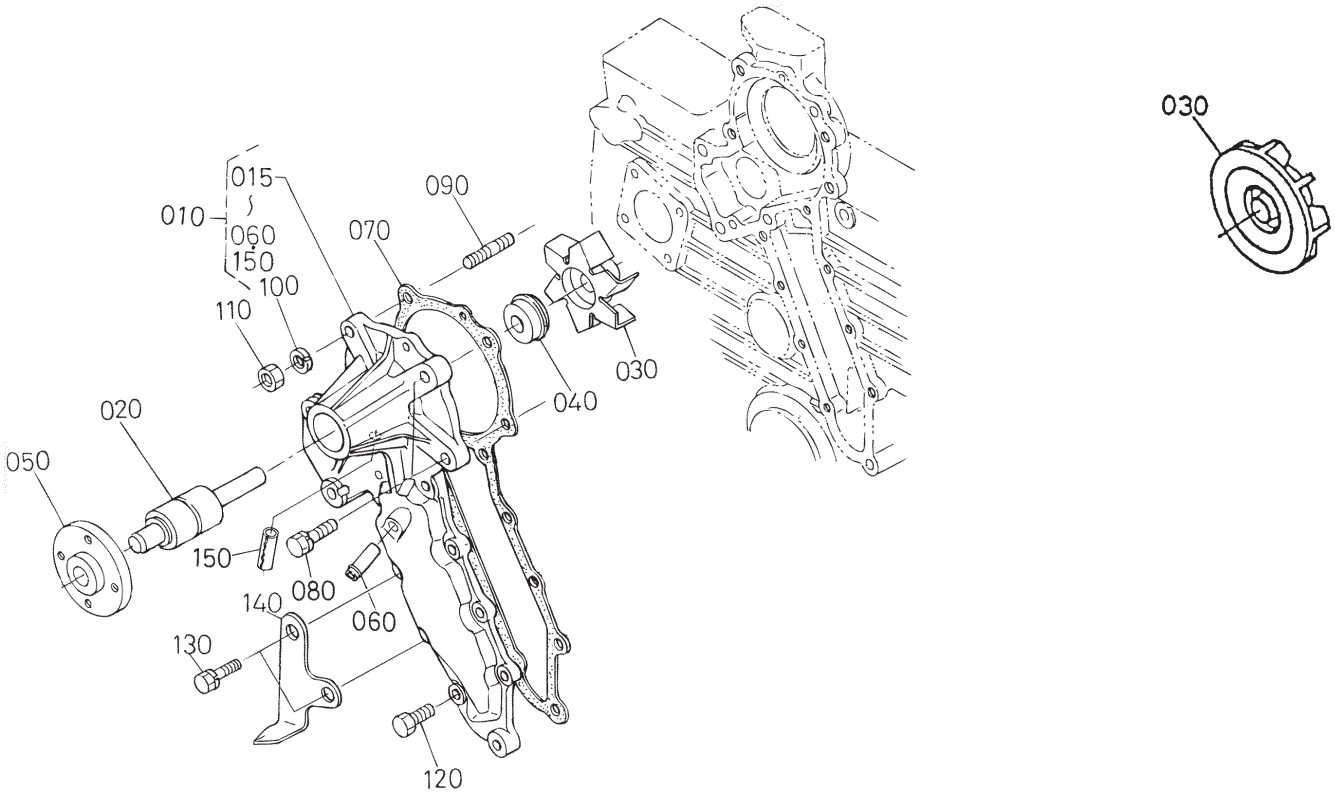

| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 040 | 105-2875 | (1C1478 or earlier) (Qty. 3) |

Sheet No.:66

# Water Flange and Thermostat Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 5 | 105-4578 | 1 | Water Flange ASM |
| 10 | 107-0143 | 1 | Flange-W ater |
| 20 | 107-0144 | 1 | Flange-W ater |
| 30 | 105-2874 | 2 | Plug |
| 40 | 105-2875 | 2 | Bolt-Flange |
| 40 | 105-2875 | 3 | Bolt-Flange |
| 45 | 107-01 17 | 1 | Bolt-Flange |
| 50 | 105-2876 | 1 | Gasket-Flange, Water |
| 60 | 98-7610 | 2 | Bolt |
| 70 | 100-1558 | 1 | Stud-Manifold, Exhaust |
| 80 | 107-01 15 | 1 | Bolt |
| 90 | 98-7534 | 1 | Nut |
| 100 | 105-2893 | 1 | Washer-Spring |
| 110 | 105-2878 | 1 | Pipe-Return, Water |
| 120 | 98-9714 | 1 | Clamp-Hose |
| 130 | 105-2879 | 1 | Clamp-Hose |
| 140 | 100-9244 | 1 | Cover-Thermostat |
| 150 | 105-2880 | 1 | Gasket-Cover , Thermostat |
| 160 | 98-7777 | 2 | Bolt |
| 170 | 105-2881 | 1 | Thermostat ASM |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 010 | 107-0129 | (2S0001 or newer) |
| 030 | 107-0130 | (1Y0001 or newer) |
| 150 | 107-0131 | (2S0001 or newer) |

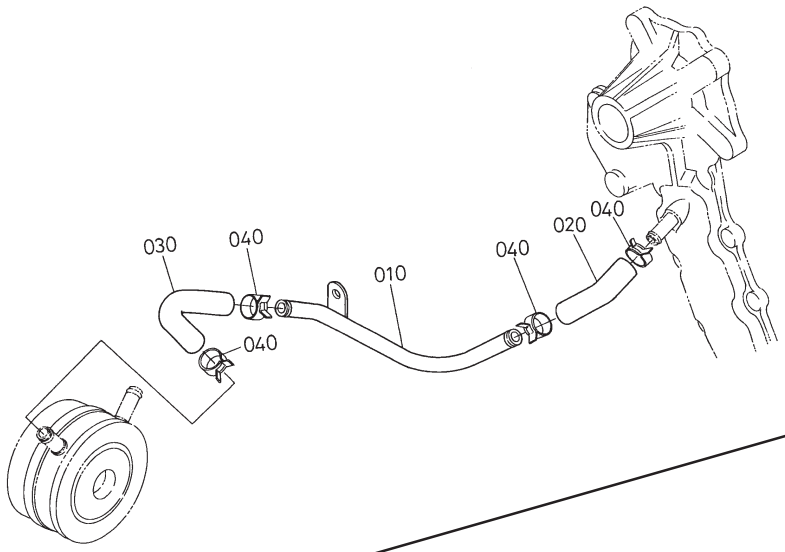
| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 010 | 100-9245 | (1W1377 or earlier) |
| 030 | 98-7781 | (1W1377 or earlier) |

Sheet No.:68

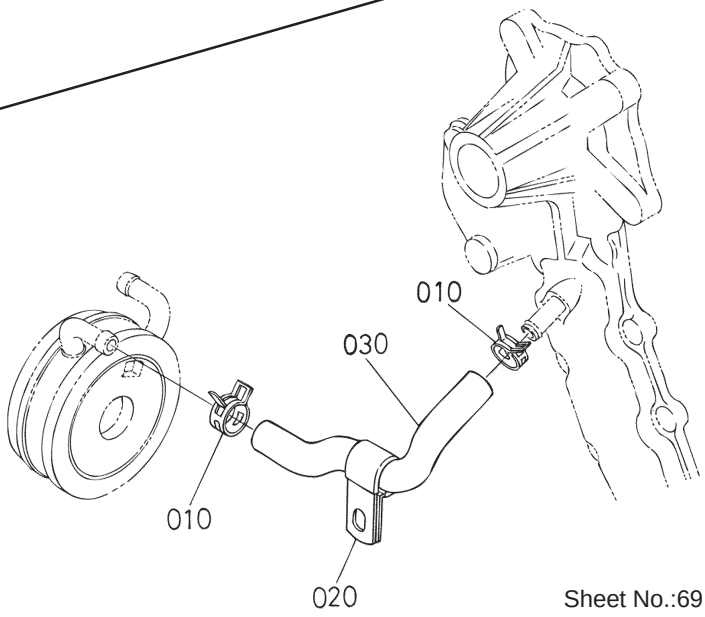
# Water Pump Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9245 | 1 | Water Pump ASM |
| 10 | 107-0129 | 1 | Water Pump ASM |
| 15 | 105-2885 | 1 | Body-Pump, Water |
| 20 | 98-7780 | 1 | Bearing-Ball |
| 30 | 107-0130 | 1 | Impeller-Pump, Water |
| 30 | 98-7781 | 1 | Impeller-Pump, Water |
| 40 | 105-2882 | 1 | Mechanical Seal ASM |
| 50 | 98-7783 | 1 | Flange-Pump, Water |
| 60 | 98-9580 | 1 | Pipe-Return, Water |
| 70 | 98-7784 | 1 | Gasket-Pump, Water |
| 80 | 98-7439 | 2 | Bolt |
| 90 | 98-7786 | 2 | Stud |
| 100 | 105-2893 | 2 | Washer-Spring |
| 110 | 98-7534 | 2 | Nut |
| 120 | 98-7605 | 6 | Bolt |
| 130 | 98-7568 | 2 | Bolt |
| 140 | 100-9246 | 1 | Indicator-T iming |
| 150 | 107-0131 | 1 | Pin-Spring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 010 | 100-9278 | (2Q1204 or earlier) |
| 020 | 100-9279 | (2Q1204 or earlier) |
| 030 | 100-9280 | (2Q1204 or earlier) |
| 040 | 98-9579 | (2Q1204 or earlier) (Qty. 4) |



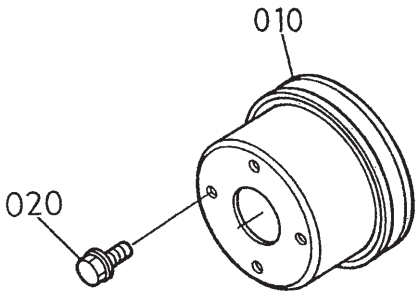

| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 010 | 98-9579 | (2S0001 or newer) (Qty. 2) |
| 020 | 107-0123 | (2S0001 or newer) |
| 030 | 107-0124 | (2S0001 or newer) |

Sheet No.:69

# Water Pipe Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9278 | 1 | Pipe-W ater |
| 10 | 98-9579 | 2 | Band-Pipe |
| 20 | 100-9279 | 1 | Pipe-W ater |
| 20 | 107-0123 | 1 | Clamp-Cord |
| 30 | 100-9280 | 1 | Pipe-Cooler , Oil |
| 30 | 107-0124 | 1 | Pipe-Cooler , Oil |
| 40 | 98-9579 | 4 | Band-Pipe |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

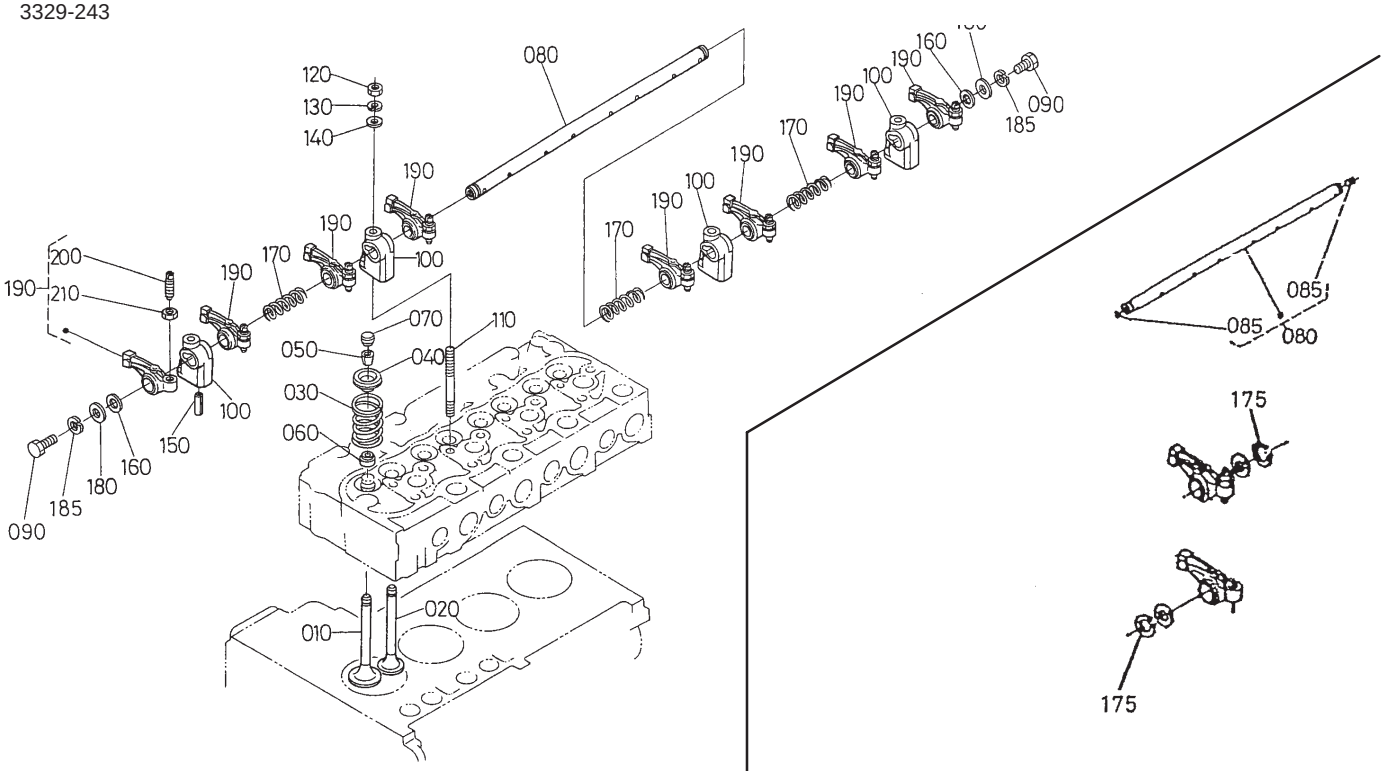



Sheet No.:70

# Fan Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7702 | 1 | Pulley-Fan |
| 20 | 99-8363 | 4 | Bolt-Flange |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 080 | 107-0134 | (2A0001 or newer) |
| 090 | 98-7884 | (2A0001 or newer) |
| 180 | 98-7698 | (2A0001 or newer) |
| 185 | 105-2893 | (2A0001 or newer) (Qty. 2) |

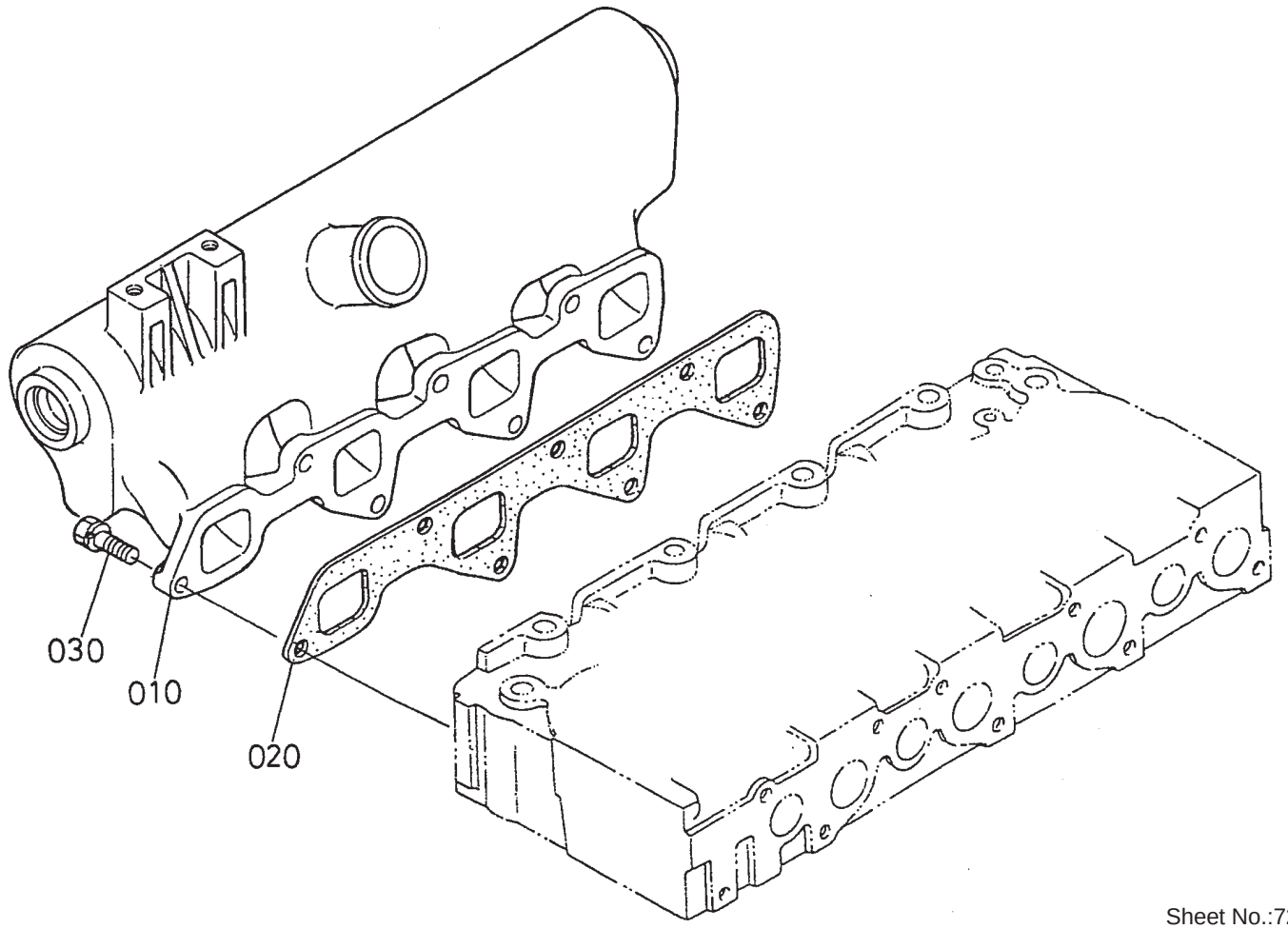
| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 080 | 98-7798 | (1Y1240 or earlier) |
| 085 | 107-0135 | (1Y1240 or earlier) |
| 175 | 98-7808 | (1Y1240 or earlier) |

Sheet No.:71

# Valve and Rocker Arm Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 98-7791 | 4 | Valve-Inlet |
| 20 | 100-9281 | 4 | Valve-Exhaust |
| 30 | 98-7793 | 8 | Spring-V alve |
| 40 | 98-7794 | 8 | Retainer-Spring, Valve |
| 50 | 98-7795 | 8 | Collet-Spring, Valve |
| 60 | 98-7796 | 8 | Seal-Stem, Valve |
| 70 | 98-7797 | 8 | Cap-V alve |
| 80 | 107-0134 | 1 | Shaft-Arm, Rocker |
| 80 | 98-7798 | 1 | Rocker Arm Shaft ASM |
| 85 | 107-0135 | 2 | Screw-Set |
| 90 | 98-7884 | 2 | Bolt |
| 100 | 98-7800 | 4 | Bracket-Arm, Rocker |
| 110 | 98-7801 | 4 | Stud |
| 120 | 98-7534 | 4 | Nut |
| 130 | 105-2893 | 4 | Washer-Spring |
| 140 | 98-7536 | 4 | Washer-Plain |
| 150 | 98-7805 | 1 | Pin-Spring |
| 160 | 98-7806 | 2 | Washer |
| 170 | 98-7807 | 3 | Spring-Arm, Rocker |
| 175 | 98-7808 | 2 | Clip-Cir ., External |
| 180 | 98-7698 | 2 | Washer-Plain |
| 185 | 105-2893 | 2 | Washer-Spring |
| 190 | 98-7809 | 8 | Rocker Arm ASM |
| 200 | 98-7810 | 8 | Screw-Adjusting |
| 210 | 98-781 1 | 8 | Nut |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

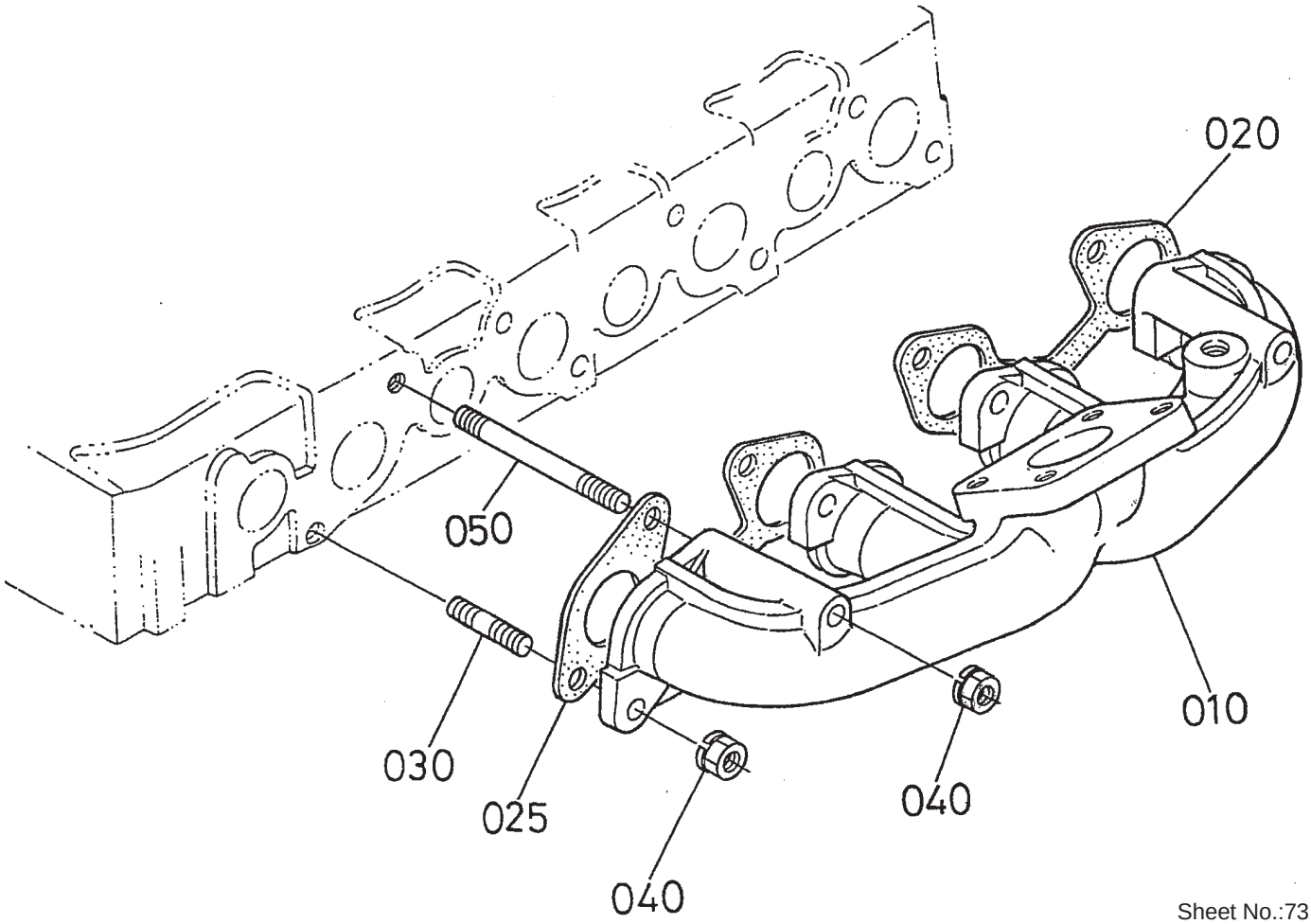



Sheet No.:72

# Inlet Manifold Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9283 | 1 | Inlet-Manifold |
| 20 | 100-9284 | 1 | Gasket-In Manifold |
| 30 | 98-7610 | 7 | Bolt |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

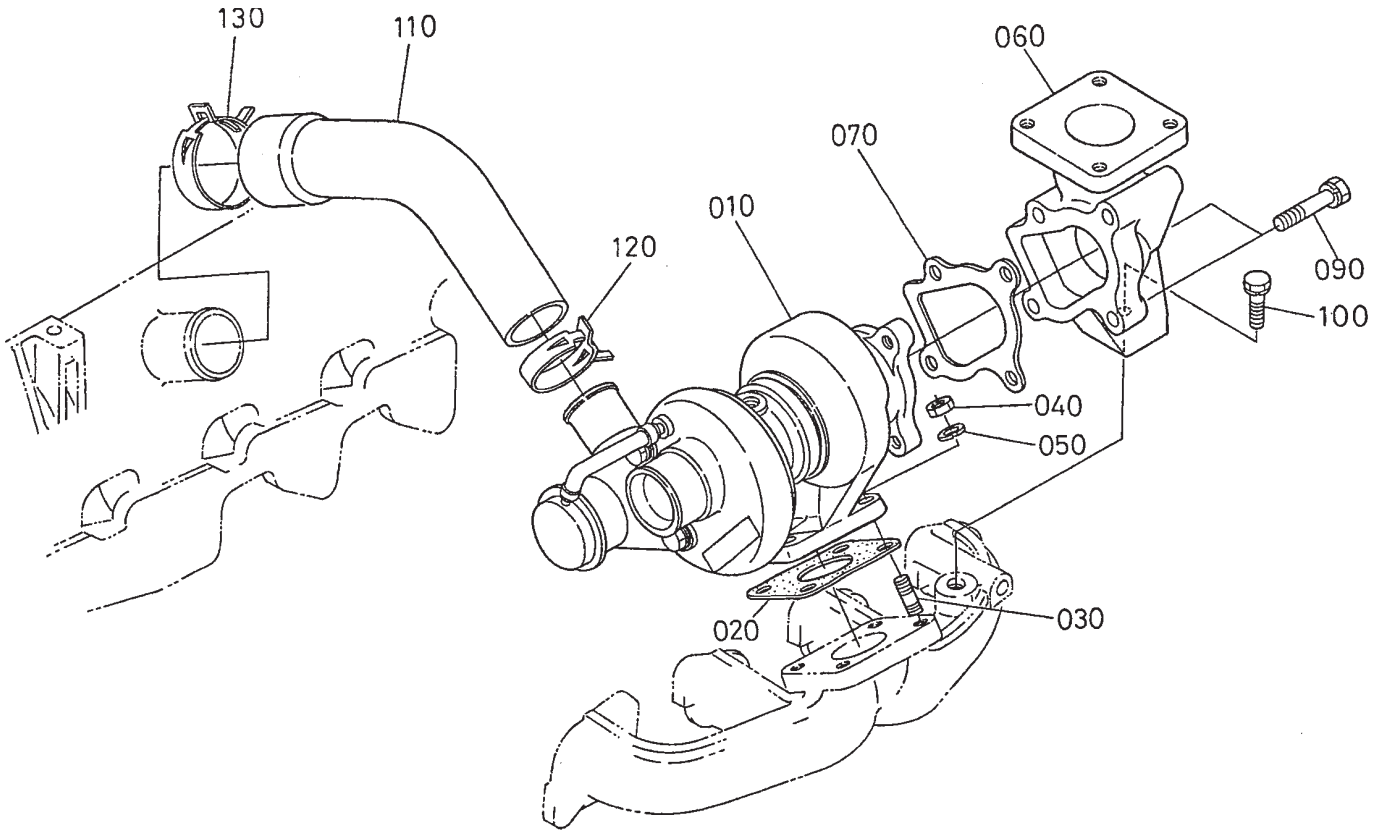



Sheet No.:73

# Exhaust Manifold Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9285 | 1 | Manifold-Exhaust |
| 20 | 98-7802 | 1 | Gasket |
| 25 | 98-7803 | 1 | Gasket |
| 30 | 98-7533 | 6 | Stud |
| 40 | 100-9288 | 8 | Nut |
| 50 | 100-9289 | 2 | Stud |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

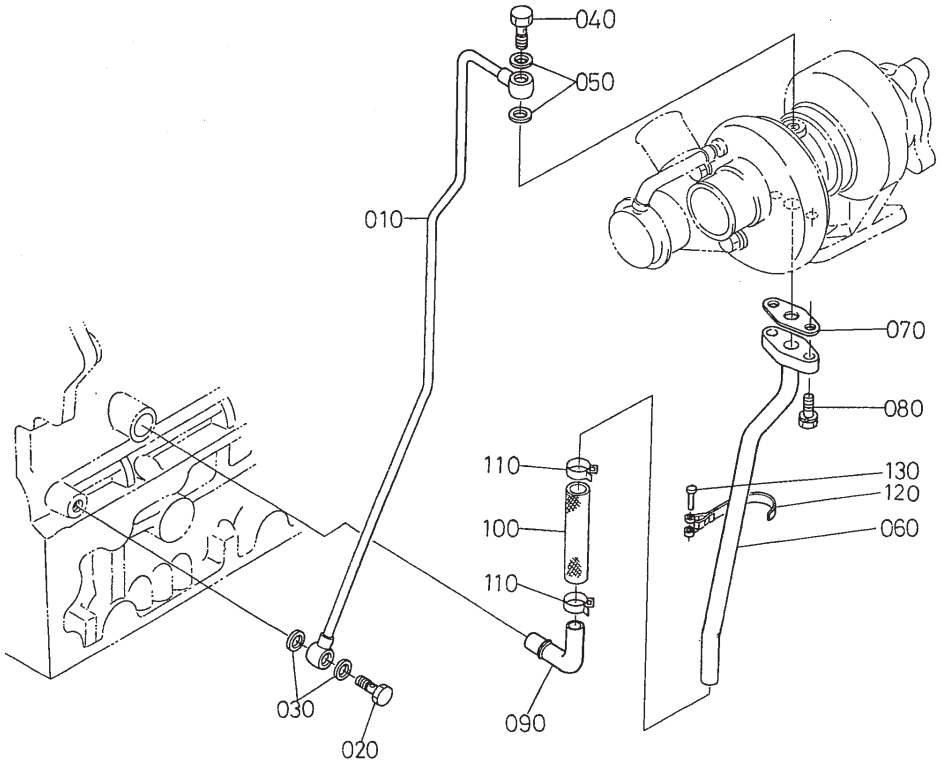



Sheet No.:74

# Turbo Charger Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9313 | 1 | Turbo Changer ASM |
| 20 | 100-9314 | 1 | Gasket |
| 30 | 99-8341 | 4 | Stud |
| 40 | 98-7534 | 4 | Nut |
| 50 | 105-2893 | 4 | Washer-Spring |
| 60 | 100-9315 | 1 | Flange-Muf fler |
| 70 | 100-9316 | 1 | Gasket |
| 90 | 98-7697 | 4 | Bolt |
| 100 | 100-9230 | 1 | Bolt |
| 110 | 100-9318 | 1 | Hose-Inlet |
| 120 | 100-9319 | 1 | Band-Pipe |
| 130 | 99-8322 | 1 | Band-Pipe |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 010 | 100-9320 | (1U1056 or earlier) |
| 060 | 100-9322 | (1U1056 or earlier) |
| 180 | 98-7568 | (1G1576 or earlier) |

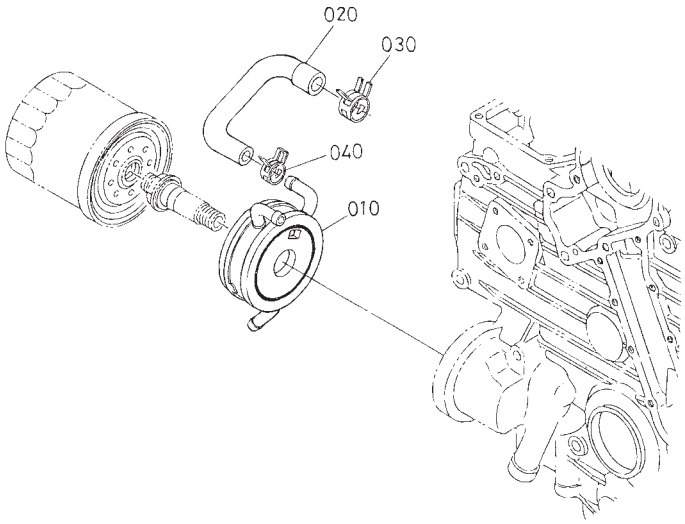
| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 010 | 107-0127 | (1W0001 or newer) |
| 060 | 107-0128 | (1W0001 or newer) |
| 180 | 98-7605 | (2J0001 or newer) |

Sheet No.:75

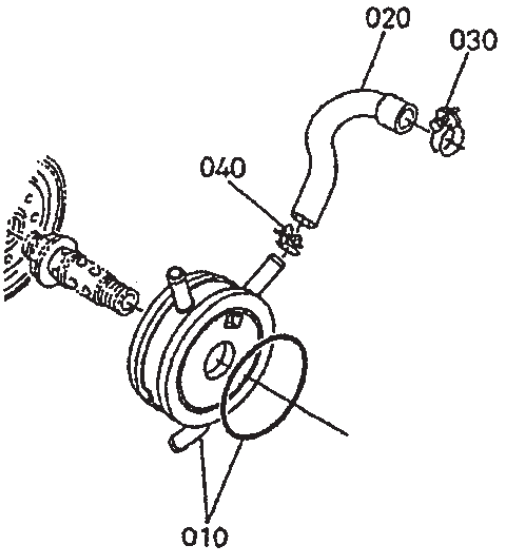
# Oil Pipe (Turbo Charger) Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9320 | 1 | Pipe-Oil |
| 10 | 107-0127 | 1 | Pipe-Oil, Complete |
| 20 | 100-9321 | 1 | Bolt-Joint, Eye |
| 30 | 98-7428 | 2 | Gasket |
| 40 | 98-9418 | 1 | Bolt-Joint, Eye |
| 50 | 99-8346 | 2 | Gasket |
| 60 | 107-0128 | 1 | Pipe-Oil, Complete |
| 60 | 100-9322 | 1 | Pipe-Oil |
| 70 | 98-9435 | 1 | Gasket-Oil Return, Turbo |
| 80 | 98-7605 | 2 | Bolt |
| 80 | 98-7568 | 2 | Bolt |
| 90 | 100-9323 | 1 | Pipe-Oil |
| 100 | 98-9721 | 1 | Pipe-Oil |
| 110 | 98-9714 | 2 | Clamp-Hose |
| 120 | 100-9324 | 1 | Clamp-Pipe |
| 130 | 98-9591 | 1 | Pin-Band |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 010 | 107-0125 | (2S0001 or newer) |
| 020 | 107-0126 | (2S0001 or newer) |
| 030 | 105-2879 | (2S0001 or newer) |
| 040 | 98-9579 | (2S0001 or newer) |



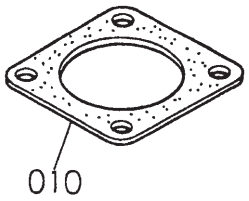

| Ref. No. | Part No. | Engine Serial # |
|---|---|---|
| 010 | 100-9325 | (2Q1204 or earlier) |
| 020 | 100-9326 | (2Q1204 or earlier) |
| 030 | 98-7774 | (2Q1204 or earlier) |
| 040 | 100-9327 | (2Q1204 or earlier) |

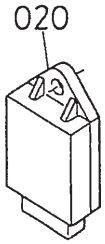
Sheet No.:76

# Oil Cooler Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9325 | 1 | Oil Cooler ASM |
| 10 | 107-0125 | 1 | Oil Cooler ASM |
| 20 | 100-9326 | 1 | Hose-Cooler, Oil |
| 20 | 107-0126 | 1 | Hose-Cooler, Oil |
| 30 | 98-7774 | 1 | Band-Pipe |
| 30 | 105-2879 | 1 | Clamp-Hose |
| 40 | 100-9327 | 1 | Band-Pipe |
| 40 | 98-9579 | 1 | Band-Pipe |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|



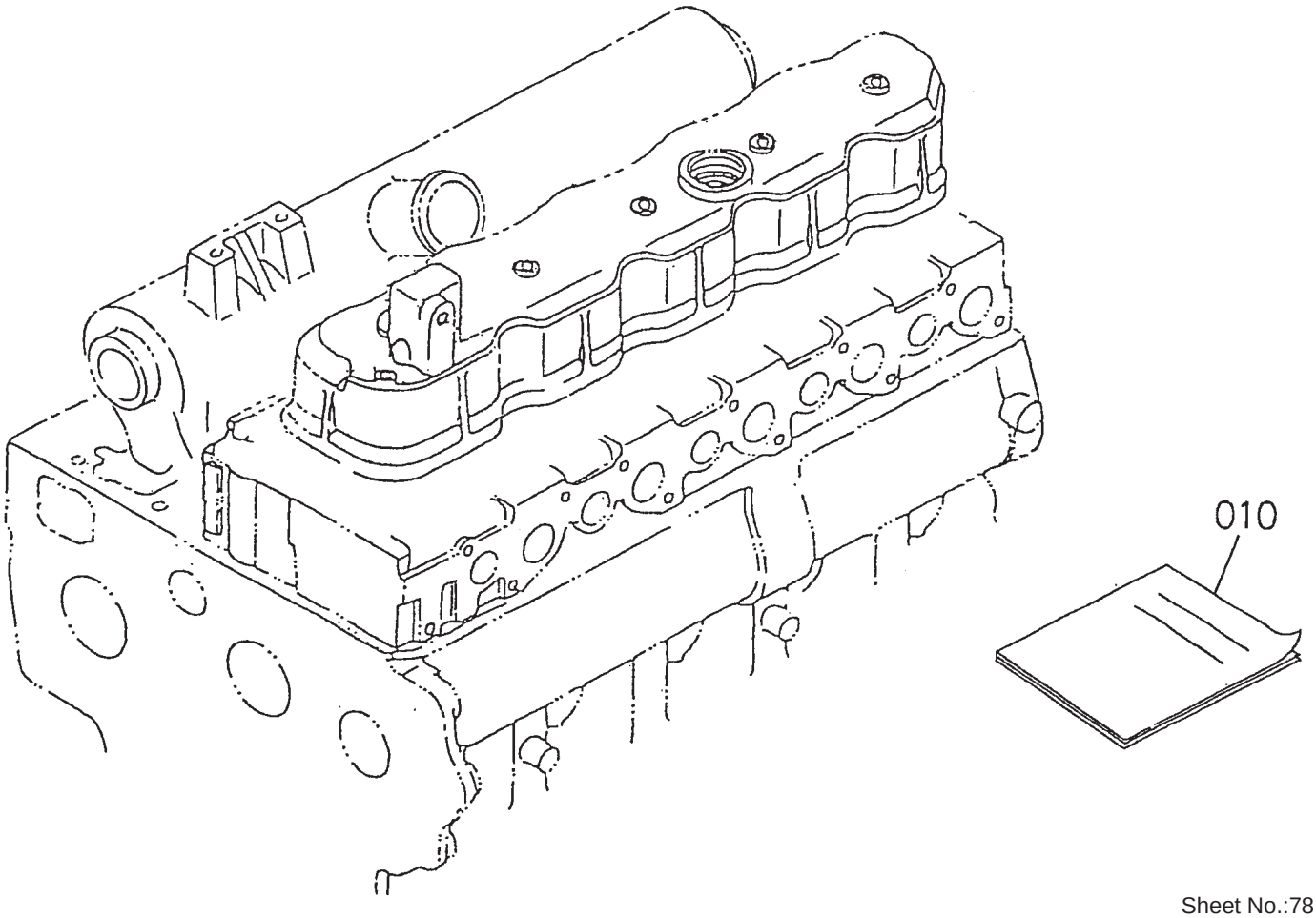




Sheet No.:77

# Muffler Gasket and Glow Controller

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9333 | 1 | Gasket-Muf fler |
| 20 | 98-761 1 | 1 | Controller-Glow |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

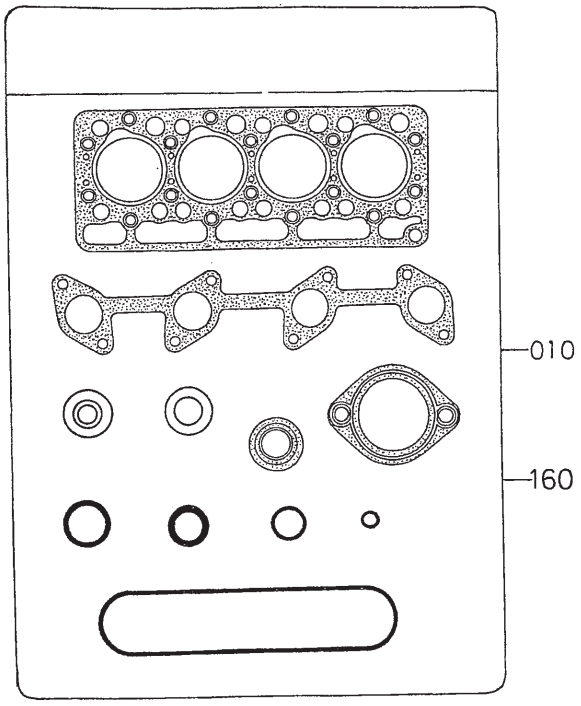



Sheet No.:78

# Engine Operator’s Manual

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9335 | 1 | Manual-Instruction |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




Sheet No.:79

# Gasket Kit

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 10 | 100-9337 | 1 | Upper Gasket Kit |
| 160 | 98-7888 | 1 | Lower Gasket Kit |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

# Maintenance Record

| Date | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
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