



Dingo 320-D
Compact Utility Loader
Model No. 22303—200000001 and Up

Parts Catalog

Ordering Replacement Parts

To order replacement parts, please supply: the part number, the quantity, and the description of each part desired.

Understanding Reference Numbers

Each identified part in an illustration has a reference number. The reference number for a part also appears in the parts list, along with other information about the part.

This catalog uses two special reference number formats, one to indicate parts in a service assembly and another to indicate the quantity of a given part in an illustration.

Service Assembly Reference Numbers

Parts in service assemblies have reference numbers in the form **a:b**. The **a** represents the reference number of the entire service assembly and the **b** represents a sequential number unique to each part within the service assembly.

For example, a wheel assembly might be identified by reference number **6**, the tire by **6:1**, the valve by **6:2**, and the wheel by **6:3**. When you order the assembly identified by reference number **6**, you receive all parts identified by reference numbers **6:1**, **6:2**, and **6:3**. However, you may also order any part individually.

Reference numbers of this type appear in illustrations and in part lists.

Reference Numbers Indicating Quantity

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

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

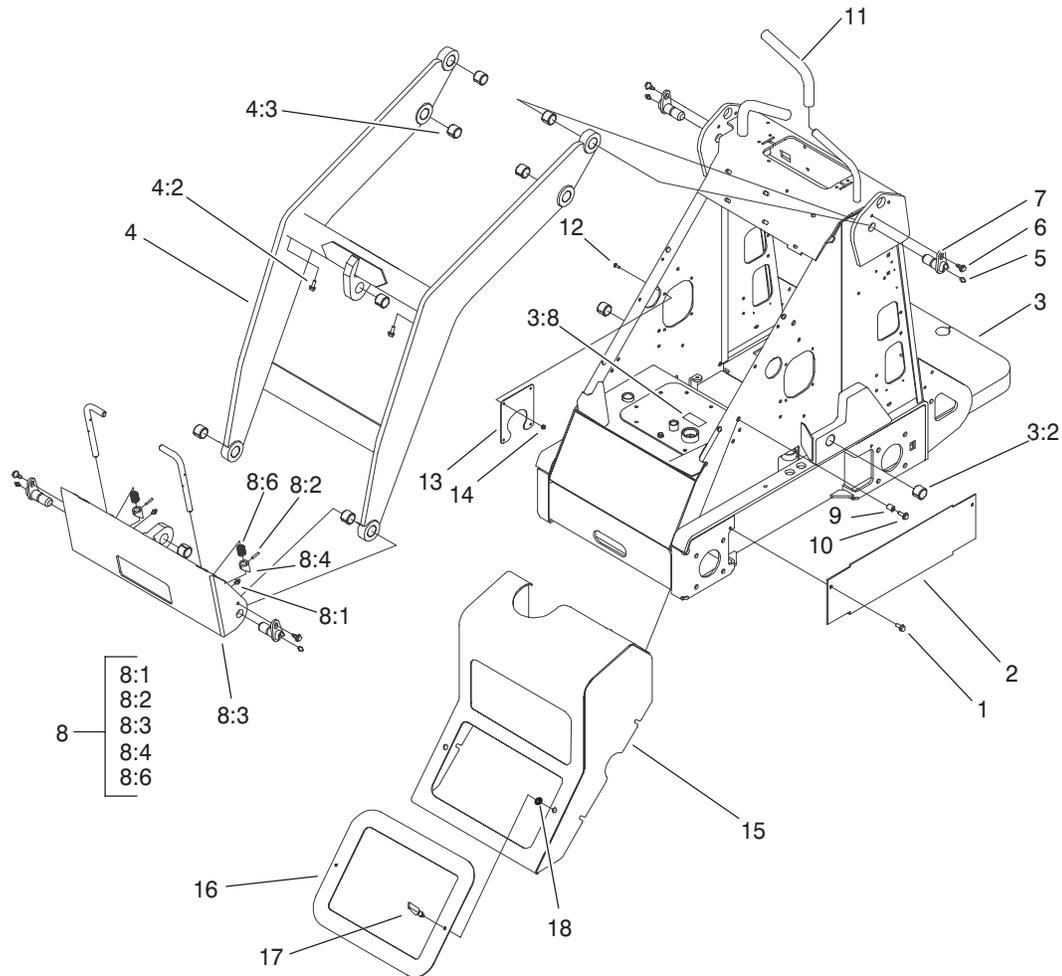
Contents

| Description | Page | Description | Page |
|--|-------------|---|-------------|
| Frame and Loader Arm Assembly | 3 | Dipstick and Guide Assembly | 30 |
| Radiator Mount Assembly | 4 | Main Bearing Case Assembly | 31 |
| Pump and Fan Mount Assembly | 5 | Camshaft Assembly | 32 |
| Engine Assembly | 6 | Piston and Crankshaft Assembly | 33 |
| Fuel Tank and Air Filter Assembly | 7 | Flywheel Assembly | 34 |
| Hydraulic Tank Assembly | 8 | Fuel Camshaft Assembly | 35 |
| Hydraulic Motor Assembly | 9 | Engine Stop Lever Assembly | 36 |
| Hydraulic Cylinder Assembly | 10 | Injection Pump Assembly | 37 |
| Hydraulic Cylinder No. 100-4163 | 11 | Injection Pump (Complete Parts) | 38 |
| Rear Cover Assembly | 12 | Governor Assembly | 39 |
| Electrical Components Assembly | 13 | Speed Control Plate Assembly | 40 |
| Decal Assembly | 14 | Nozzle Holder and Glow Plugs Assembly | 41 |
| Wheel and Motor Assembly | 15 | Nozzle Holder (Complete Parts) | 43 |
| Hydraulic Motor Assembly No. 99-3052 | 16 | Fuel Pump (Mechanical) | 44 |
| Hydraulic Valve Assembly | 17-18 | Dynamo and Pulley Assembly | 45 |
| Hydraulic Valve Assembly No. 99-3070 | 19 | Dynamo (Complete Parts) | 46 |
| Hydraulic Valve Assembly No. 99-3073 | 20 | Starter Assembly | 47 |
| Hydraulic Valve Assembly No. 99-3072 | 21 | Starter (Complete Parts) | 48 |
| Hydraulic Valve Assembly No. 99-3077 | 22 | Oil Switch and Thermoswitch Assembly | 49 |
| Electrical Schematic | 23 | Water Flange and Thermostat Assembly | 50 |
| Hydraulic Schematic | 24 | Water Pump Assembly | 51 |
| Crankcase Assembly | 25 | Water Pipe Assembly | 52 |
| Oil Pan Assembly | 26 | Valve and Rocker Arm Assembly | 53 |
| Cylinder Head Assembly | 27 | Inlet Manifold Assembly | 54 |
| Gear Case Assembly | 28 | Exhaust Manifold Assembly | 55 |
| Head Cover Assembly | 29 | Gasket Kit | 56 |

Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

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

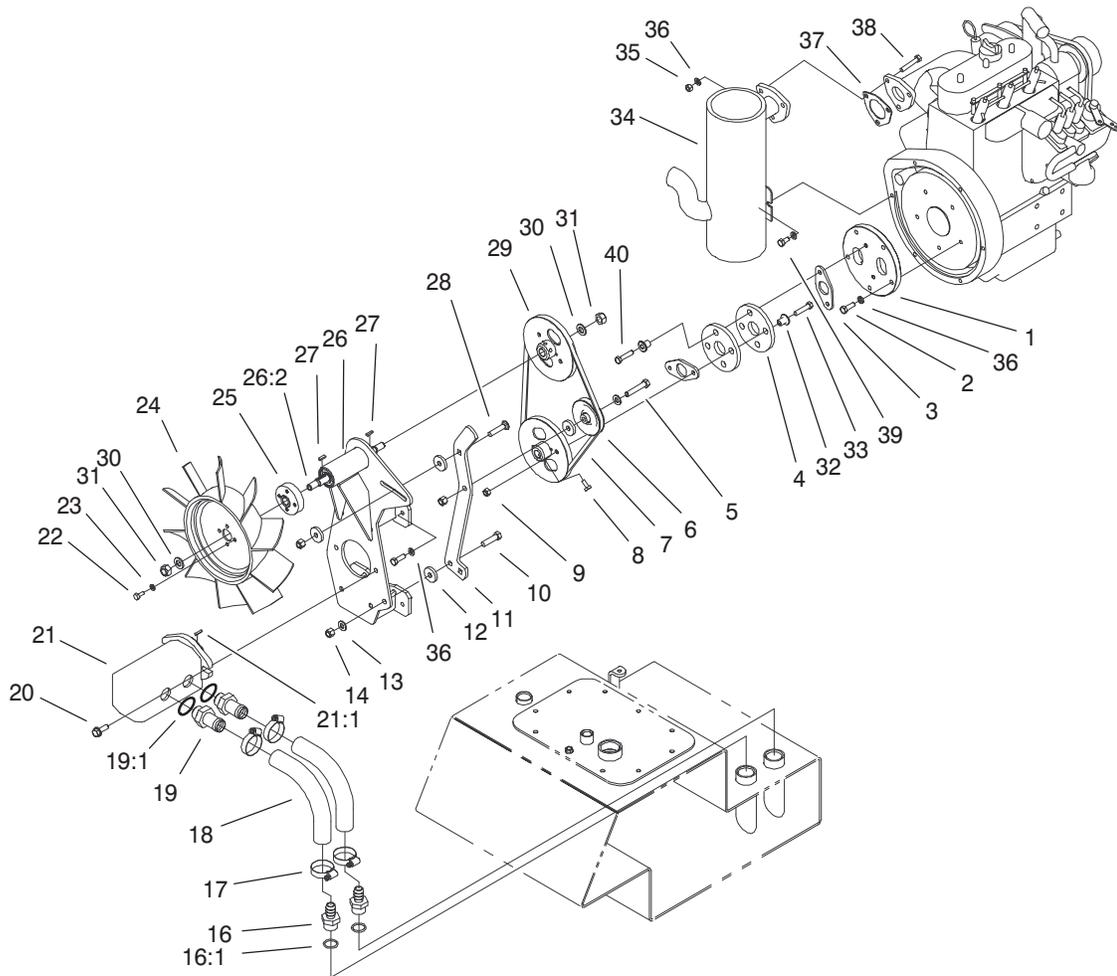


Sheet No.:2
C-2870

Frame and Loader Arm Assembly

| Ref. No. | Part No. | Qty. | Description | Ref. No. | Part No. | Qty. | Description |
|----------|------------|------|----------------------|----------|------------|------|-----------------|
| 1 | 32144-70 | 6 | Screw-HH | 14 | 3296-2 | 4 | Nut-Lock |
| 2 | 99-3020-01 | 2 | Cover-Hose | 15 | 99-3120-03 | 1 | Hood Weld ASM |
| 3 | 99-3154 | 1 | Frame & Decal ASM | 16 | 99-3118-03 | 1 | Cover, Weld ASM |
| 3:2 | 98-4871 | 2 | Bushing-Tension | 17 | 74-5950 | 2 | Latch-Swell |
| 3:8 | 93-6686 | 1 | Decal-Oil, Hydraulic | 18 | 99-3058 | 2 | Washer |
| 4 | 100-8814 | 1 | Loader And Decal ASM | | | | |
| 4:2 | 32144-70 | 2 | Screw-HH | | | | |
| 4:3 | 98-4871 | 7 | Bushing-Tension | | | | |
| *4:5 | 100-1701 | 1 | Decal-Danger | | | | |
| 5 | 302-5 | 4 | Fitting-Lube | | | | |
| 6 | 99-5105 | 4 | Screw-Shoulder | | | | |
| 7 | 99-1414 | 4 | Pin-Pivot | | | | |
| 8 | 98-4690 | 1 | Quick Attach ASM | | | | |
| 8:1 | 302-5 | 2 | Fitting-Lube | | | | |
| 8:2 | 32121-94 | 2 | Pin-Special | | | | |
| 8:3 | 98-4691-03 | 1 | Mount-Attach, Quick | | | | |
| 8:4 | 98-4692 | 2 | Cam-Attach, Quick | | | | |
| 8:5 | 100-3373 | 2 | Pin-Qtach | | | | |
| 8:6 | 98-4694 | 2 | Spring-Compression | | | | |
| 8:7 | 98-4871 | 1 | Bushing-Tension | | | | |
| 9 | 32148-7 | 4 | Nut-Insert | | | | |
| 10 | 3234-29 | 4 | Screw-HHF | | | | |
| 11 | 98-4845 | 2 | Grip-Cushion | | | | |
| 12 | 3229-34 | 4 | Bolt-CARR | | | | |
| 13 | 99-1427-03 | 1 | Guard-Muffler | | | | |

* Not illustrated

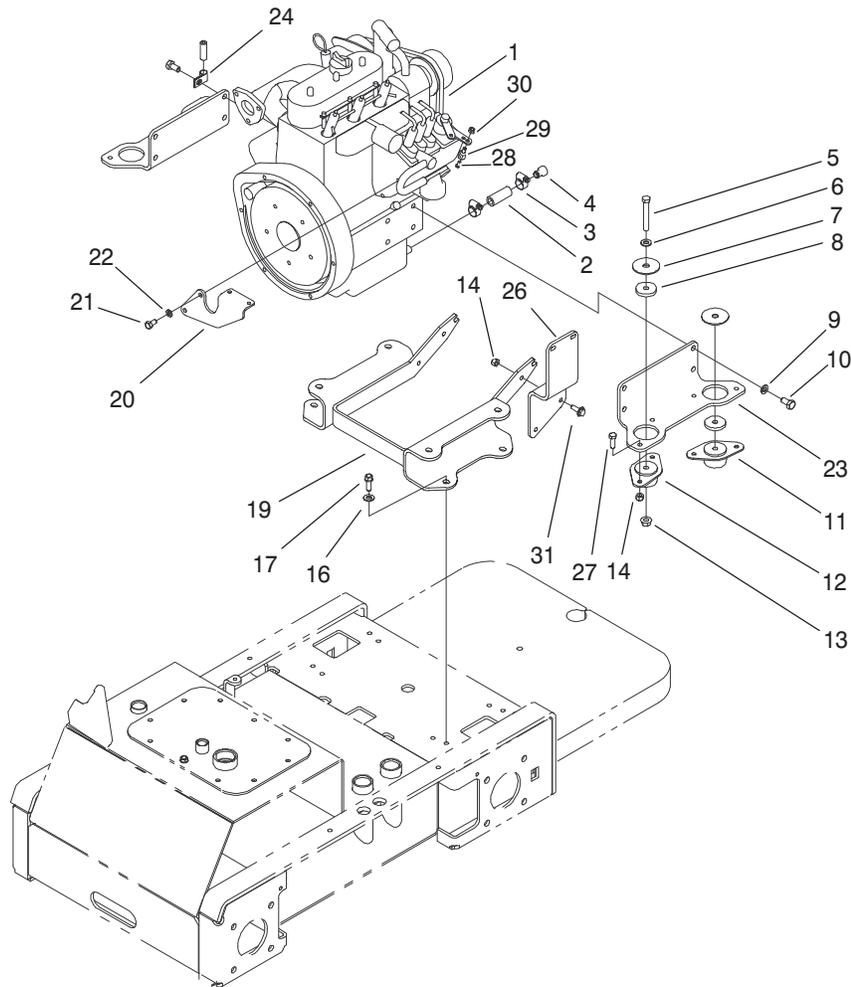


Sheet No.:5
C-2873

Pump and Fan Mount Assembly

| Ref. No. | Part No. | Qty. | Description | Ref. No. | Part No. | Qty. | Description |
|----------|-------------|------|----------------------|----------|----------|------|------------------------|
| 1 | 99-1431 | 1 | Adapter-Flywheel | 23 | 3253-3 | 4 | Washer-Lock/Sp |
| 2 | 99-5131 | 9 | Bolt | 24 | 99-5119 | 1 | Fan |
| 3 | 99-1430 | 2 | Spacer-Coupler | 25 | 99-1439 | 1 | Adapter-Fan |
| 4 | 44-2230 | 2 | Coupling-Rubber | 26 | 99-1449 | 1 | Pump Mount ASM |
| 5 | 323-10 | 1 | Screw-HH | 26:2 | 98-0068 | 1 | Shaft-Fan |
| 6 | 63-8140 | 1 | Pulley-Idler | *26:3 | 38-7820 | 2 | Bearing-Ball |
| 7 | 92-8876 | 1 | V-Belt | 27 | 100-1715 | 2 | Key-Square |
| 8 | 3241-5 | 2 | Screw-Set | 28 | 3231-5 | 1 | Screw-CARR |
| 9 | 3296-29 | 2 | Nut-Lock, NI | 29 | 99-5111 | 2 | Pulley-Keyed |
| 10 | 323-8 | 1 | Screw-HH | 30 | 33096-00 | 2 | Washer-Flat |
| 11 | 100-1727-01 | 1 | Mount-Tensioner | 31 | 3296-19 | 2 | Nut-Lock NI |
| 12 | 99-5121 | 4 | Spacer | 32 | 71-4411 | 4 | Spacer |
| 13 | 3256-24 | 2 | Washer-Flat | 33 | 322-7 | 2 | Screw-HH |
| 14 | 3296-39 | 3 | Nut-Lock, NI | 34 | 98-2655 | 1 | Muffler-Spark Arrester |
| 16 | 354-78 | 2 | Connector-Hose | 35 | 3217-6 | 3 | Nut-Hex |
| 16:1 | 237-146 | 1 | O-Ring | 36 | 3253-4 | 13 | Washer |
| 17 | 2412-111 | 4 | Clamp | 37 | 100-2238 | 1 | Gasket-Muffler |
| 18 | 99-3046 | 2 | Hose-Suction, Formed | 38 | 322-9 | 3 | Screw-HH |
| 19 | 99-3017 | 2 | Fitting | 39 | 99-5132 | 1 | Bolt |
| 19:1 | 237-81 | 1 | O-Ring | 40 | 99-5133 | 2 | Bolt |
| 20 | 66-9300 | 2 | Screw-Flange | | | | |
| 21 | 98-4702 | 1 | Pump - Gear, Tandem | | | | |
| 21:1 | 98-4700 | 1 | Key-Square | | | | |
| *21:2 | 99-1353 | 1 | Kit-Seal, Pump | | | | |
| 22 | 321-3 | 4 | Screw-HH | | | | |

* Not illustrated

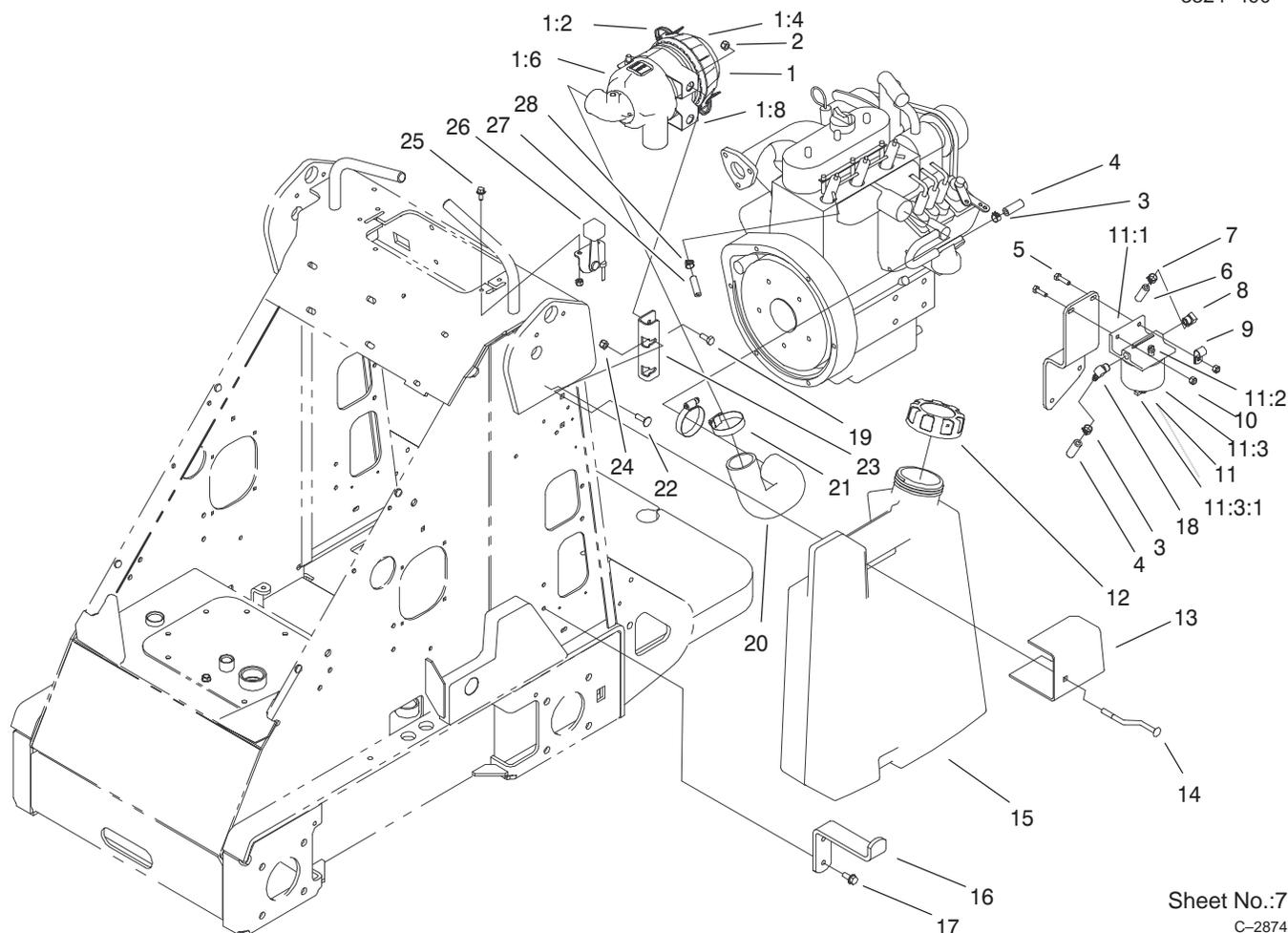


Sheet No.:6

Engine Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|------------|------|------------------------|
| 1 | 98-4661 | 1 | Engine-Kubota |
| 2 | 56-2230 | 1 | Hose-Fuel |
| 3 | 2412-36 | 2 | Clamp-Hose |
| 4 | 99-1445 | 1 | Plug-Oil, Diesel |
| 5 | 323-13 | 4 | Screw-HH |
| 6 | 3256-24 | 4 | Washer-Flat |
| 7 | 87-5100 | 4 | Washer - Snubbing |
| 8 | 98-4596 | 4 | Washer-Mount, Engine |
| 9 | 42-9600 | 6 | Lockwasher-Spring, Mid |
| 10 | 99-5130 | 8 | Bolt |
| 11 | 83-1030 | 2 | Mount-Engine |
| 12 | 93-5265 | 2 | Mount-Engine |
| 13 | 32128-29 | 4 | Locknut-Flange |
| 14 | 3296-29 | 10 | Nut-Lock, NI |
| 16 | 3256-80 | 4 | Washer-Flat |
| 17 | 95-1726 | 4 | Screw-Taptite w/Patch |
| 19 | 98-0066-01 | 1 | Engine Mount Wa |
| 20 | 99-5007-01 | 1 | Mount-Solenoid |
| 21 | 99-5132 | 2 | Bolt |
| 22 | 3253-4 | 2 | Washer |
| 23 | 98-0055-01 | 2 | Plate-Mount, Engine |
| 24 | 2412-138 | 1 | Clamp-R |
| 26 | 98-0059-01 | 1 | Mount-Filter,Fuel |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|------------------------|
| 27 | 322-5 | 8 | Screw-HH |
| 28 | 25-8640 | 1 | Screw-Machine, HH |
| 29 | 93-0021 | 1 | Swivel-Cable, Throttle |
| 30 | 3296-13 | 1 | Nut-Lock NI |
| 31 | 3234-29 | 2 | Screw-HHF |

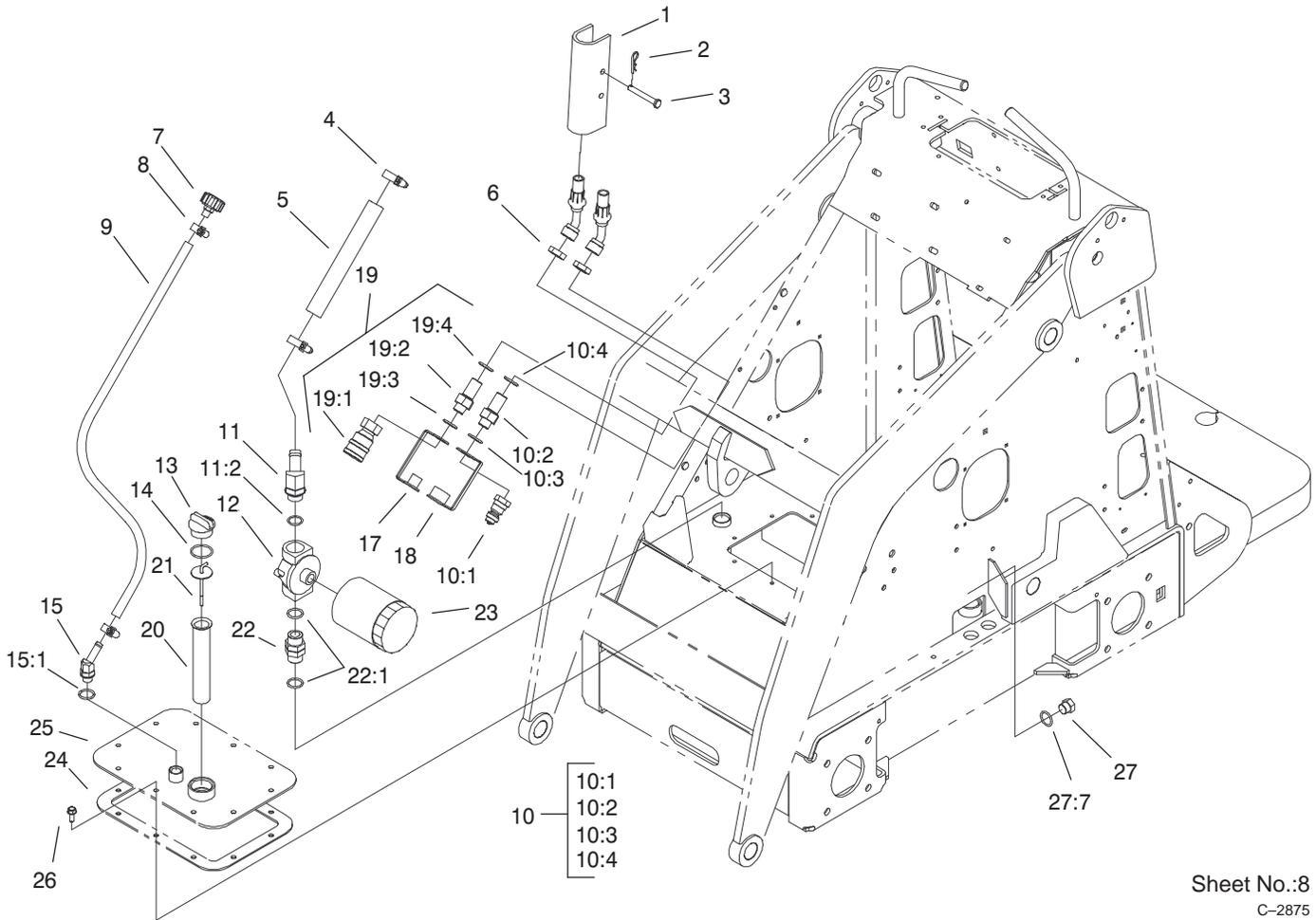
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C-2874

Fuel Tank and Air Filter Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|------------|------|-----------------------------|
| 1 | 99-3160 | 1 | Air Cleaner ASM |
| *1:1 | 99-3173 | 1 | Element-Filter, Air |
| 1:2 | 99-3174 | 2 | Clip-Cleaner, Air |
| *1:3 | 99-3175 | 1 | Valve-Ejector, Dust |
| 1:4 | 99-3176 | 1 | Cover-Cleaner, Air |
| *1:5 | 99-3183 | 1 | Tube ASM |
| 1:6 | 99-3184 | 1 | Housing-Cleaner, Air |
| *1:7 | 99-3198 | 1 | Filter-Safety |
| 1:8 | 99-3197 | 1 | Filter Mount Bracket ASM |
| 2 | 3296-29 | 3 | Nut-Lock, NI |
| 3 | 92-2379 | 2 | Clamp-Hose |
| 4 | 63-7627 | 1 | Hose-Fuel |
| 5 | 321-6 | 2 | Screw-HH |
| 6 | 99-1438 | 1 | Hose-Fuel |
| 7 | 2412-98 | 2 | Clamp |
| 8 | 304-96 | 1 | Elbow |
| 9 | 2412-73 | 1 | Clamp-R |
| 10 | 3296-42 | 4 | Nut-Lock |
| 11 | 63-7650 | 1 | Separator-Filter/Water |
| 11:1 | 63-8280 | 1 | Head ASM |
| 11:2 | 63-8290 | 1 | Vent-Air |
| 11:3 | 63-8300 | 1 | Element-Spin-On |
| 11:3:1 | 63-8310 | 1 | Valve-Drain |
| 12 | 98-2710 | 1 | Diesel Fuel Cap ASM |
| 13 | 99-1444-03 | 1 | Plate-Mount, Left |

| Ref. No. | Part No. | Qty. | Description |
|----------|------------|------|--------------------|
| 14 | 98-4657 | 1 | Bolt-Mount |
| 15 | 99-1425 | 1 | Fuel Tank ASM |
| *15:3 | 100-1596 | 1 | Fitting-90° |
| *15:4 | 104048 | 1 | Valve-Fuel |
| 16 | 98-4656-03 | 1 | Mount-Bottom, Tank |
| 17 | 32144-70 | 2 | Screw-HH |
| 18 | 353-781 | 1 | Fitting |
| 19 | 322-3 | 2 | Screw-HH |
| 20 | 99-5041 | 1 | Hose-Cleaner, Air |
| 21 | 2412-92 | 2 | Clamp-Hose |
| 22 | 3230-2 | 2 | Screw-CARR |
| 23 | 99-3080-03 | 1 | Mount-Cleaner, Air |
| 24 | 32128-20 | 2 | Nut-HF |
| 25 | 3234-33 | 2 | Screw-HHF |
| 26 | 99-1422 | 1 | Control-Throttle |
| 27 | 76-4420 | 1 | Hose-Line, Fuel |
| 28 | 2412-146 | 2 | Clamp-Hose |

* Not illustrated



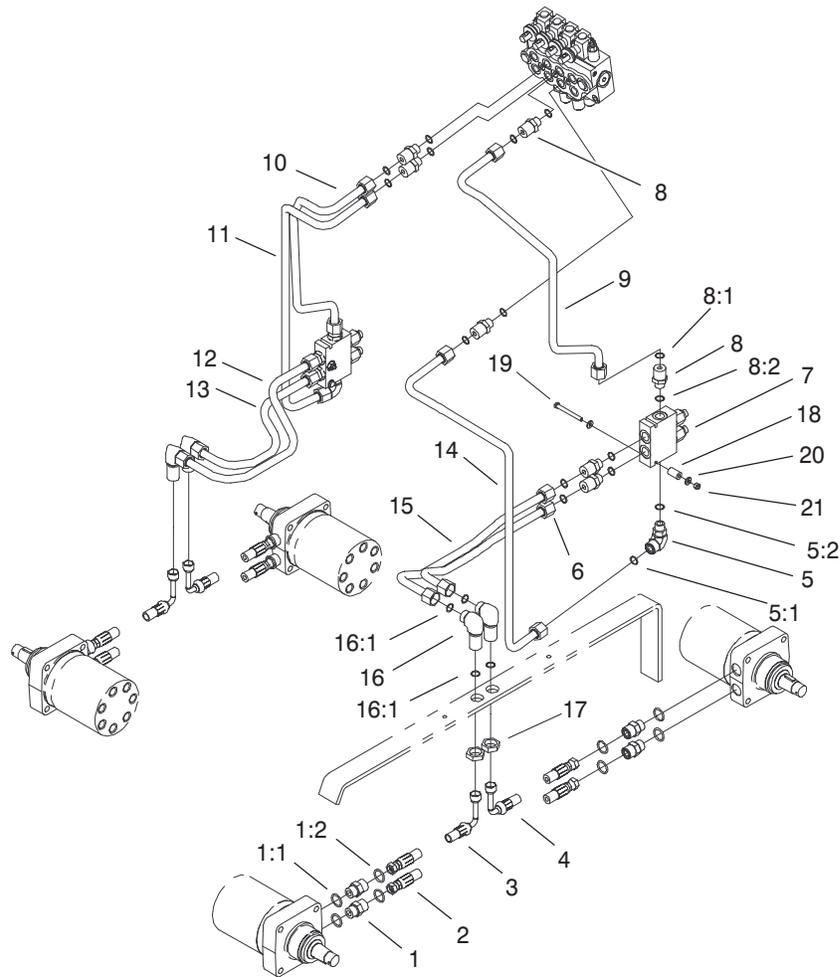
Sheet No.:8
C-2875

Hydraulic Tank Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|------------|------|---------------------------|
| 1 | 98-4675-01 | 2 | Lock-Cylinder |
| 2 | 3290-467 | 2 | Pin-Hair |
| 3 | 283-52 | 2 | Pin-Clevis |
| 4 | 2412-129 | 2 | Clamp-Hose |
| 5 | 98-2713 | 1 | Hose-Suction, Hyd |
| 6 | 340-74 | 2 | Locknut-Bulkhead |
| 7 | 68-6150 | 1 | Breather-Air |
| 8 | 2412-36 | 2 | Clamp-Hose |
| 9 | 100-1748 | 1 | Hose-Vent |
| 10 | 100-4748 | 1 | Nipple ASM, Bulkhead |
| 10:1 | 100-4235 | 1 | Flush Face Nipple |
| *10:1:1 | 100-6120 | 1 | Kit-Seal |
| 10:2 | 100-4236 | 1 | Fitting-Adapter, Bulkhead |
| 10:3 | 237-65 | 1 | O-Ring |
| 10:4 | 237-80 | 1 | O-Ring |
| 11 | 99-3016 | 1 | Fitting-45° |
| 11:2 | 237-81 | 1 | O-Ring |
| 12 | 92-5821 | 1 | Filter Head ASM |
| 13 | 93-7498 | 1 | Plug-Plastic |
| 14 | 237-123 | 1 | O-Ring |
| 15 | 354-126 | 1 | Fitting-Hyd, 45° |
| 15:1 | 237-79 | 1 | O-Ring |
| 17 | 100-8815 | 1 | Cap-Dust, Nipple |
| 18 | 100-8816 | 1 | Cap-Dust, Coupler |

| Ref. No. | Part No. | Qty. | Description |
|----------|-------------|------|---------------------------|
| 19 | 100-4747 | 1 | Coupler ASM, Bulkhead |
| 19:1 | 100-4234 | 1 | Coupler-Face, Flush |
| *19:1:1 | 100-6119 | 1 | Kit-Seal |
| 19:2 | 100-4236 | 1 | Fitting-Adapter, Bulkhead |
| 19:3 | 237-65 | 1 | O-Ring |
| 19:4 | 237-80 | 1 | O-Ring |
| 20 | 61-2790 | 1 | Filter-Screen |
| 21 | 100-2097 | 1 | Dipstick-Oil, Welded |
| 22 | 98-9906 | 1 | Fitting-Thread, Straight |
| 22:1 | 237-81 | 2 | O-Ring |
| 23 | 54-0110 | 1 | Filter-Oil, Transmission |
| 24 | 98-9927 | 1 | Gasket-Cover |
| 25 | 100-1713-01 | 1 | Cover ASM |
| 26 | 98-9940 | 10 | Screw |
| 27 | 353-988 | 1 | Plug-Hex, Hollow |
| 27:7 | 237-79 | 1 | O-Ring |

* Not illustrated

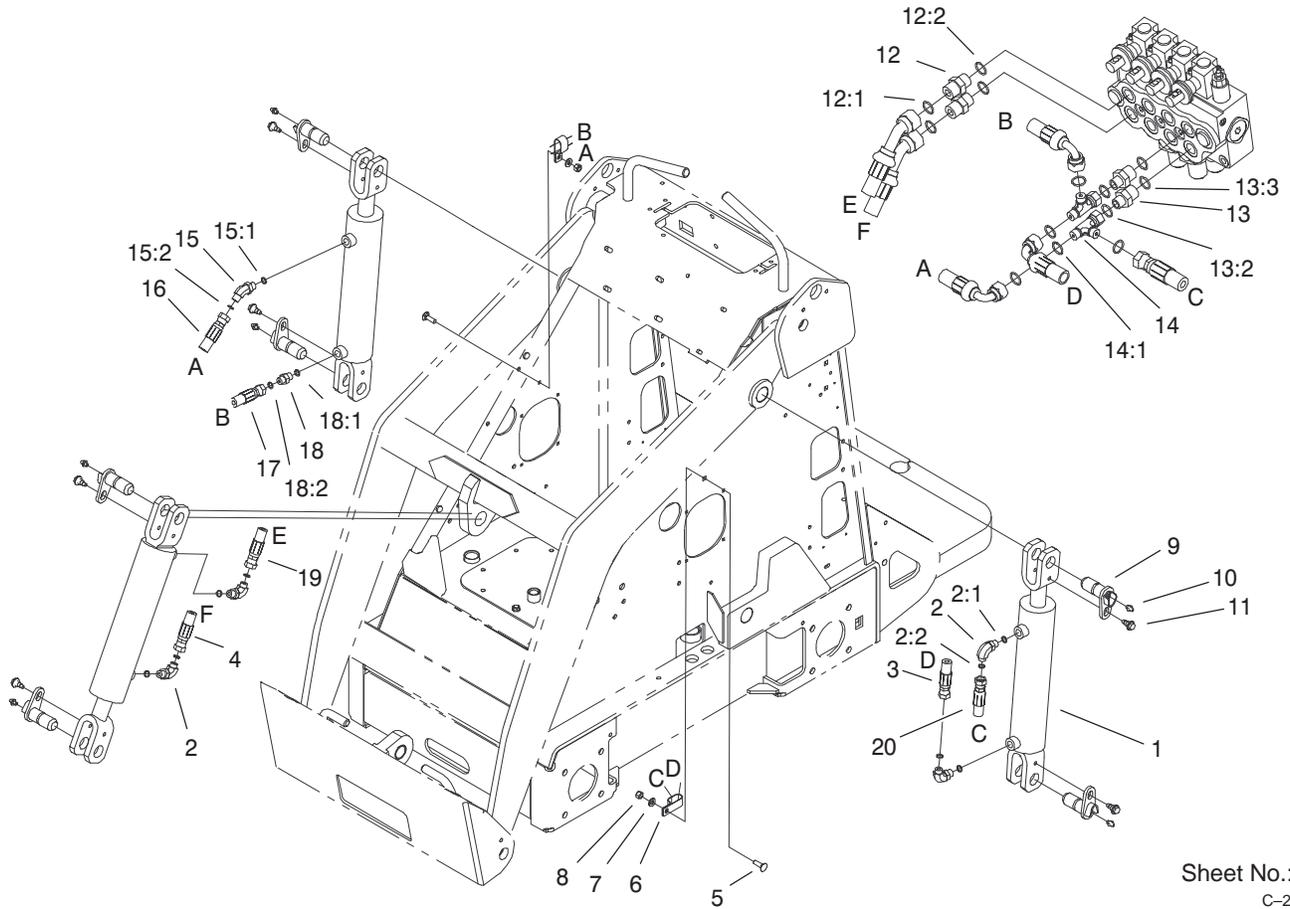


Sheet No.:10
C-2877

Hydraulic Motor Assembly

| Ref. No. | Part No. | Qty. | Description | Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-----------------------|----------|----------|------|---------------------------|
| 1 | 340-7 | 8 | Adapter | 16 | 340-72 | 4 | Elbow-Bulkhead Union, 90° |
| 1:1 | 237-65 | 1 | O-Ring | 16:1 | 237-65 | 2 | O-Ring |
| 1:2 | 237-80 | 1 | O-Ring | 17 | 340-74 | 4 | Locknut-Bulkhead |
| 2 | 99-3012 | 2 | Hose-Motor, Hyd | 18 | 99-3057 | 2 | Spacer-Valve |
| 3 | 99-3010 | 2 | Hose-Motor, Front Hyd | 19 | 321-23 | 2 | Screw-HH |
| 4 | 99-3011 | 2 | Hose-Motor, Rear Hyd | 20 | 3256-22 | 4 | Washer-Flat |
| 5 | 340-153 | 2 | Fitting-Hyd | 21 | 3296-42 | 2 | Nut-Lock |
| 5:1 | 237-79 | 1 | O-Ring | | | | |
| 5:2 | 237-151 | 1 | O-Ring | | | | |
| 6 | 99-3022 | 1 | Line-Hyd, Left A1 | | | | |
| 7 | 99-3040 | 2 | Valve, Counterbalance | | | | |
| *7:1 | 98-2712 | 1 | Seal Kit-Valve | | | | |
| *7:2 | 98-3271 | 2 | Valve - Cartridge | | | | |
| *7:3 | 100-8864 | 1 | Manifold Assembly | | | | |
| *7:4 | 100-8865 | 1 | Needle Valve Assembly | | | | |
| 8 | 340-155 | 10 | Fitting - Hyd | | | | |
| 8:1 | 237-79 | 1 | O-Ring | | | | |
| 8:2 | 237-151 | 1 | O-Ring | | | | |
| 9 | 99-3027 | 1 | Line-Hyd, Left B | | | | |
| 10 | 99-3024 | 1 | Line-Hyd, Right B | | | | |
| 11 | 99-3029 | 1 | Line-Hyd, Left A1 | | | | |
| 12 | 99-3025 | 1 | Line-Hyd, Right B1 | | | | |
| 13 | 99-3028 | 1 | Line-Hyd, Right A1 | | | | |
| 14 | 99-3023 | 1 | Line-Hyd, Left A | | | | |
| 15 | 99-3026 | 1 | Line-Hyd, Left B1 | | | | |

* Not illustrated

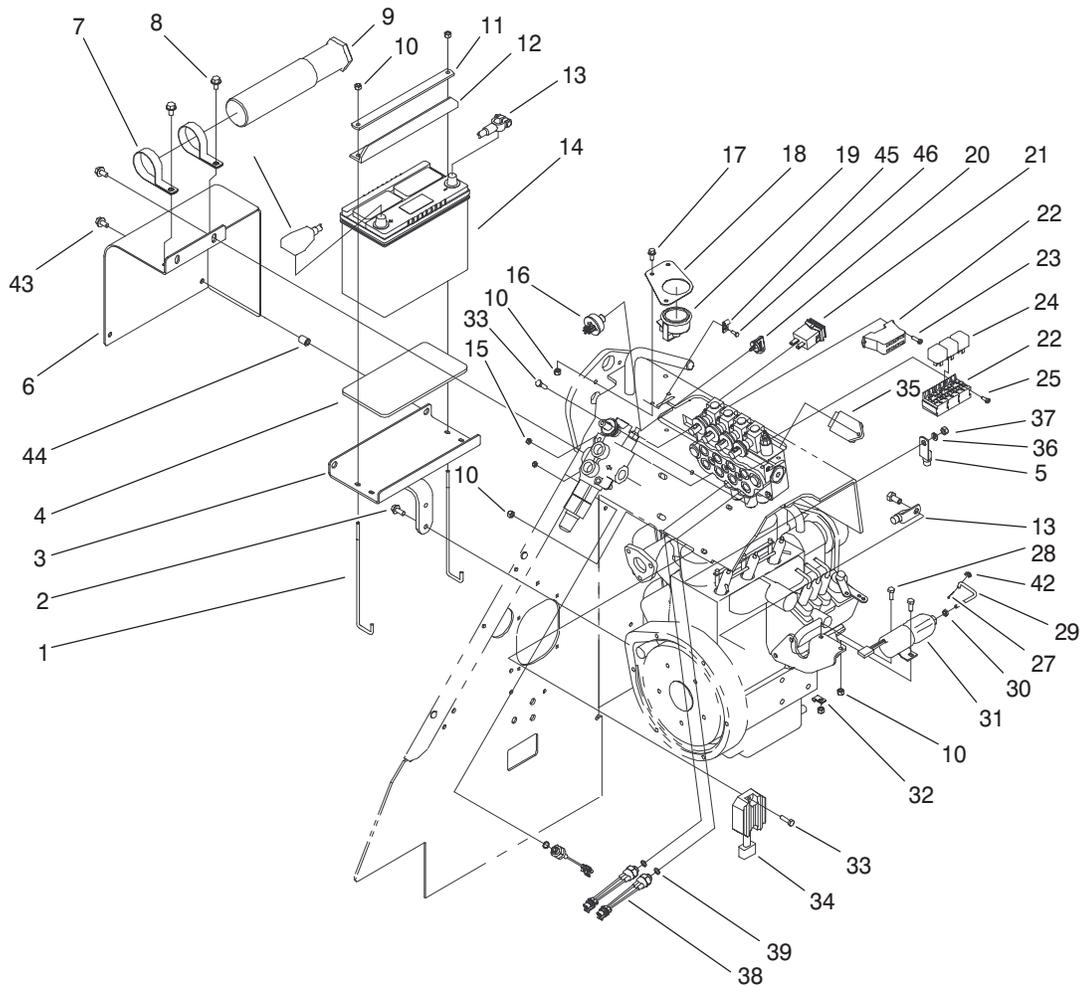


Sheet No.:11
C-2878

Hydraulic Cylinder Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|------------------------|
| 1 | 100-4163 | 3 | Kit-Hydraulic Cylinder |
| 2 | 340-82 | 4 | Adapter |
| 2:1 | 237-42 | 1 | O-Ring |
| 2:2 | 237-21 | 1 | O-Ring |
| 3 | 98-4748 | 1 | Hose-Hyd, Pressure Lo |
| 4 | 98-4726 | 1 | Hose-Hyd, Center Long |
| 5 | 3230-2 | 2 | Screw-CARR |
| 6 | 2412-137 | 2 | Clamp-Tube |
| 7 | 3256-23 | 2 | Washer-Flat |
| 8 | 3296-29 | 2 | Nut-Lock, NI |
| 9 | 99-1414 | 6 | Pin-Pivot |
| 10 | 302-5 | 6 | Fitting-Lube |
| 11 | 99-5105 | 6 | Screw-Shoulder |
| 12 | 340-3 | 2 | Adapter |
| 12:1 | 237-22 | 1 | O-Ring |
| 12:2 | 237-79 | 1 | O-Ring |
| 13 | 340-133 | 2 | Adapter |
| 13:2 | 237-79 | 1 | O-Ring |
| 13:3 | 237-21 | 1 | O-Ring |
| 14 | 340-151 | 2 | Fitting |
| 14:1 | 237-75 | 3 | O-Ring |
| 15 | 340-137 | 1 | Fitting |
| 15:1 | 237-21 | 1 | O-Ring |
| 15:2 | 237-42 | 1 | O-Ring |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|---------------------------|
| 16 | 98-4725 | 1 | Hose-Loader, Hyd |
| 17 | 100-1731 | 1 | Hose-Hyd, Right |
| 18 | 340-1 | 1 | Adapter |
| 18:1 | 237-35 | 1 | O-Ring |
| 18:2 | 237-42 | 1 | O-Ring |
| 19 | 98-4727 | 1 | Hose-Hyd, Center Straight |
| 20 | 99-3109 | 1 | Hose-Loader, Hyd. |

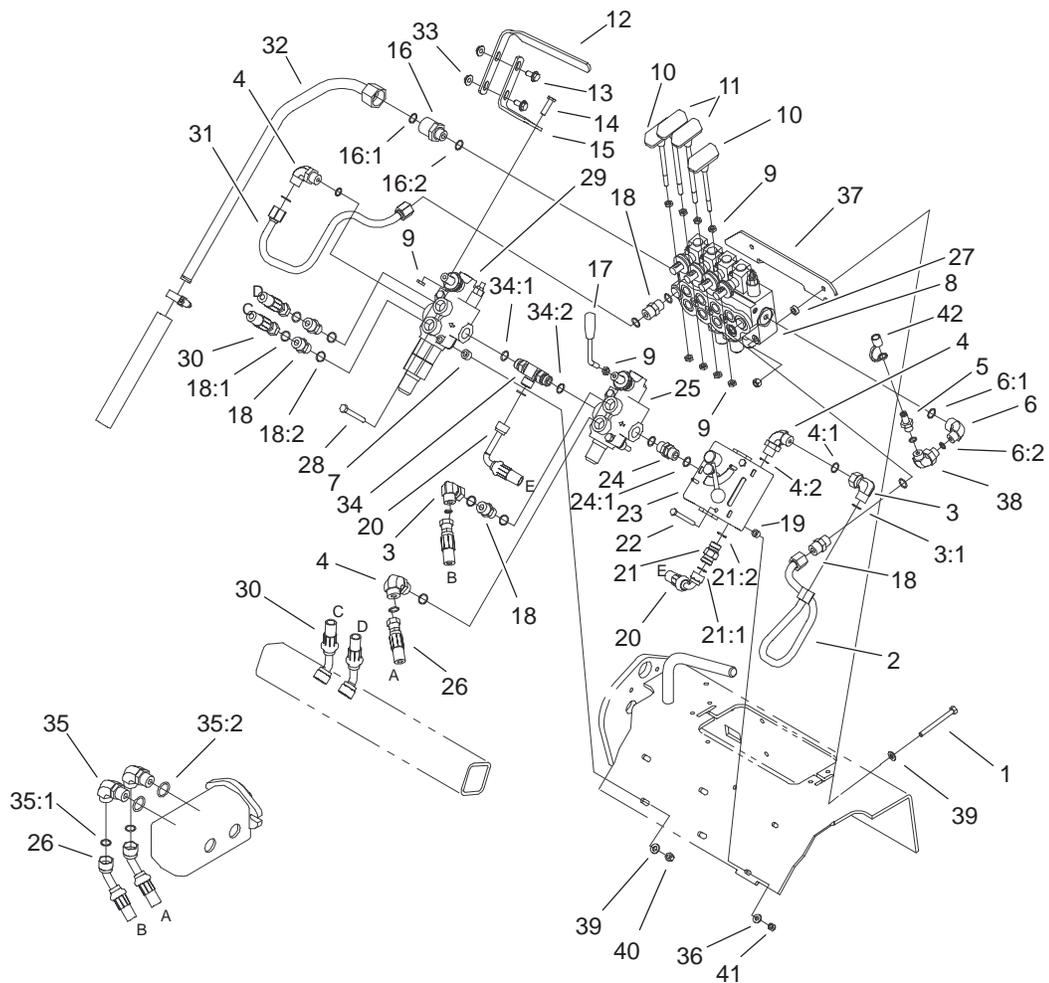


Sheet No.:14

Electrical Components Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|-------------|------|-------------------------------|
| 1 | 99-5035 | 2 | Retainer-Battery |
| 2 | 32144-70 | 2 | Screw-HH |
| 3 | 98-2665-03 | 1 | Battery Mount Wa |
| 4 | 99-5030 | 1 | Pad-Battery |
| 5 | 100-1708 | 1 | Cable-Battery, Positive |
| 6 | 98-2670-03 | 1 | Battery Cover Wa |
| 7 | 2412-133 | 2 | R-Clamp |
| 8 | 32144-14 | 4 | Screw-HWH |
| 9 | 74-0720 | 1 | Tube-Manual |
| 10 | 3296-42 | 10 | Nut-Lock |
| 11 | 99-5008-01 | 1 | Retainer-Battery |
| 12 | 99-5039 | 1 | Retainer-Battery |
| 13 | 100-1709 | 1 | Cable-Battery, Negative |
| 14 | 99-1441 | 1 | Battery |
| 15 | 3296-12 | 4 | Nut-Lock |
| 16 | 111216 | 1 | Ignition Switch ASM |
| 17 | 3234-33 | 3 | Screw-HHF |
| 18 | 100-1707-01 | 1 | Mount-Lamp, Warning |
| 19 | 100-1732 | 1 | Cluster-Lamp |
| 20 | 63-8360 | 2 | Key-Ignition |
| 21 | 94-4208 | 1 | Hourmeter |
| 22 | 100-8826 | 1 | Wire Harness, Dingo Kubota |
| 23 | 32105-13 | 2 | Screw-Shh |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|--------------------------|
| 24 | 98-7249 | 3 | Relay-Speedometer |
| 25 | 32105-8 | 2 | Screw |
| 27 | 3272-1 | 1 | Pin-Cotter |
| 28 | 321-4 | 2 | Screw-HH |
| 29 | 99-1423 | 1 | Rod-Linkage, Threaded |
| 30 | 3220-1 | 1 | Nut-Jam |
| 31 | 99-5006 | 1 | Solenoid-Kubota |
| 32 | 2412-31 | 1 | Clamp-Boden |
| 33 | 321-6 | 3 | Screw-HH |
| 34 | 100-2057 | 1 | Regulator ASM |
| 35 | 98-7611 | 1 | Controller-Glow, F/W |
| 36 | 100-2215 | 1 | Washer-Spring |
| 37 | 100-2171 | 1 | Nut-Hexagon |
| 38 | 72-4310 | 3 | Switch |
| 39 | 237-42 | 3 | O-Ring |
| 42 | 52-5910 | 1 | Ring-Retaining |
| 43 | 3234-29 | 2 | Screw-HHF |
| 44 | 32148-7 | 2 | Nut-Insert |
| 45 | 2412-72 | 1 | Insulated Closed Clip |
| 46 | 32144-87 | 1 | Screw-Thread Forming |

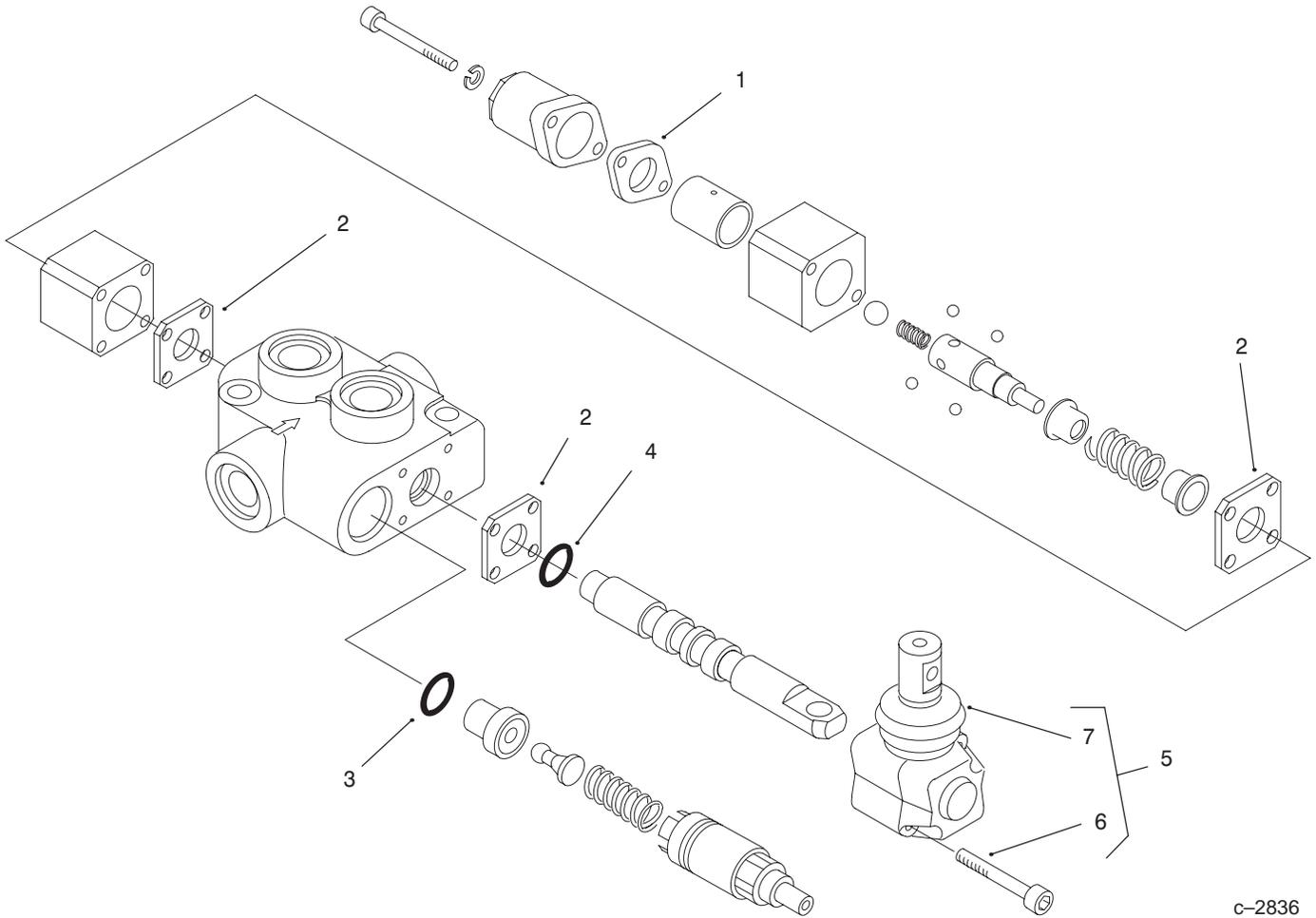


Sheet No.:20

Hydraulic Valve Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|-----------|------|-------------------------|
| 1 | 322-20 | 3 | Screw-HH |
| 2 | 99-3030 | 1 | Line-Hyd, CF |
| 3 | 94-6031 | 2 | Fitting-Hyd |
| 3:1 | 237-30 | 1 | O-Ring |
| 4 | 340-98 | 3 | Fitting-Hyd, 90 |
| 4:1 | 237-79 | 1 | O-Ring |
| 4:2 | 237-30 | 1 | O-Ring |
| 5 | 86-5480 | 1 | Nipple-Test |
| 6 | 340-18 | 1 | Fitting |
| 6:1 | 237-79 | 1 | O-Ring |
| 6:2 | 237-22 | 1 | O-Ring |
| 7 | 98-4695 | 5 | Tube-Spacer |
| 8 | 99-3070 | 1 | Valve-Hyd, 4-Spool |
| 9 | 42-9580 | 10 | Nut-Hex |
| 10 | 98-4671 | 2 | Cylinder Handle ASM |
| 11 | 98-4670 | 2 | Drive Handle ASM |
| 12 | 98-9090 | 1 | Grip - Control |
| 13 | 3234-5 | 2 | Screw-HHF |
| 14 | 33104-030 | 1 | Screw-HHF |
| 15 | 99-1376 | 1 | Mount - Control |
| 16 | 98-9921 | 1 | Fitting-Thread Straight |
| 16:1 | 237-145 | 1 | O-Ring |
| 16:2 | 237-79 | 1 | O-Ring |
| 17 | 98-4729 | 1 | Lever-Valve |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------------------|
| 18 | 340-4 | 5 | Adapter |
| 18:1 | 237-30 | 1 | O-Ring |
| 18:2 | 237-79 | 1 | O-Ring |
| 19 | 98-4799 | 2 | Tube-Spacer |
| 20 | 100-2245 | 1 | Hose ASM |
| 21 | 98-4735 | 1 | Valve-Check, Hyd |
| 21:1 | 237-30 | 1 | O-Ring |
| 21:2 | 237-79 | 1 | O-Ring |
| 22 | 321-14 | 2 | Screw-HH |
| 23 | 99-3073 | 1 | Valve-Flow, Hydraulic |
| 24 | 95-3209 | 1 | Fitting-Thread Straight |
| 24:1 | 237-79 | 2 | O-Ring |
| 25 | 99-3072 | 1 | Valve-Selector Hyd |
| 26 | 100-1730 | 2 | Hose-Pump, Hyd |



c-2836

Hydraulic Valve Assembly No. 99-3077

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|---------------------------------|
| 1 | 99-3074 | 1 | Gasket |
| 2 | 99-3075 | 1 | Gasket |
| †3 | | 1 | O-Ring |
| †4 | | 2 | O-Ring |
| 5 | 100-8807 | 1 | Operator ASM |
| 6 | 100-8806 | 2 | Screw-Operator |
| 7 | 100-8829 | 1 | Boot-Operator |
| * | 99-4391 | 1 | Seal Kit (Incl. Ref.# 3 & 4) |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
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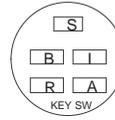
* Not illustrated
 † Not Serviced Separately

Electrical Schematic

KUBOTA DINGO SCHEMATIC

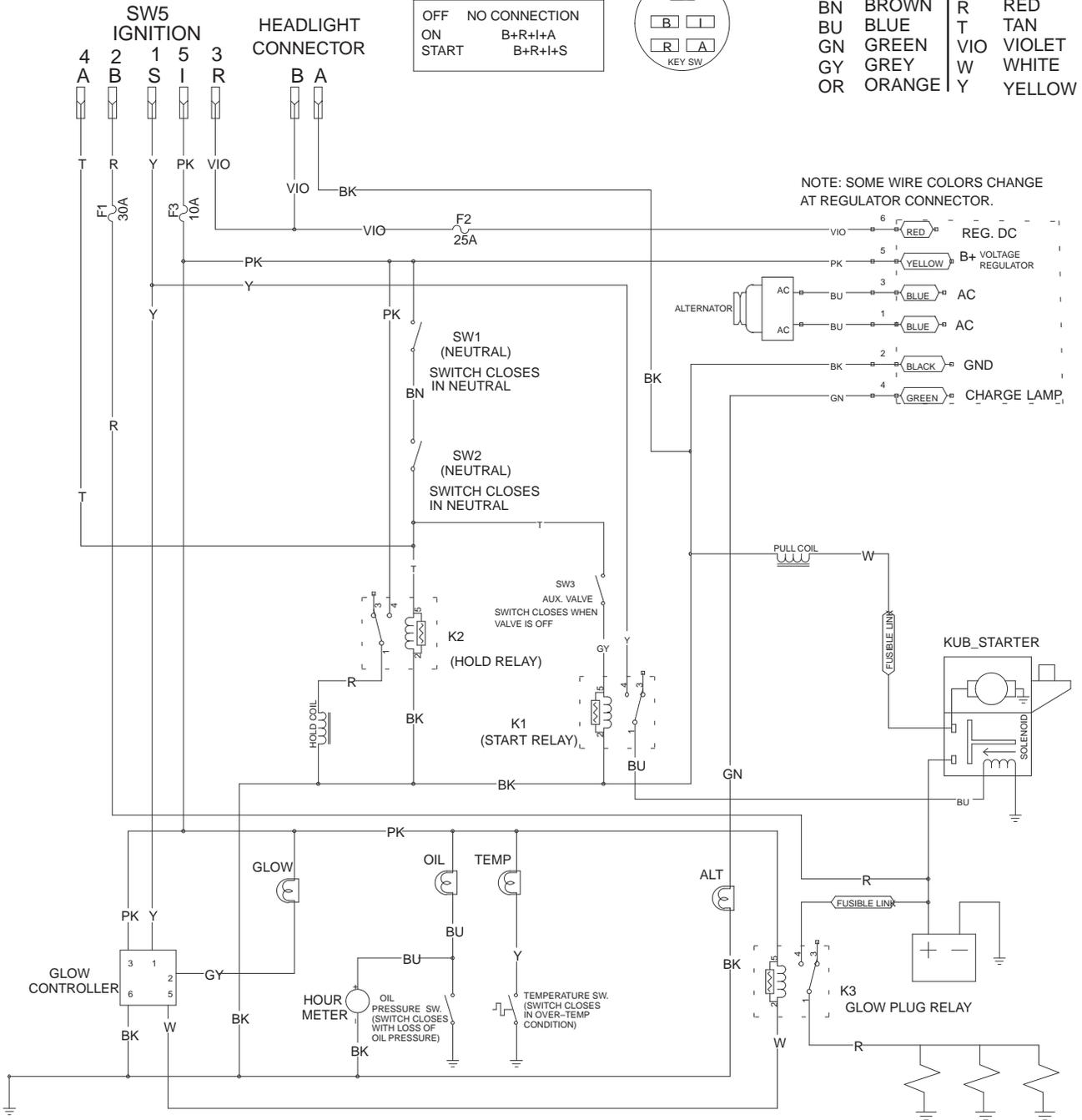
KEY SWITCH P/N 111216

| | |
|-------|---------------|
| OFF | NO CONNECTION |
| ON | B+R+I+A |
| START | B+R+I+S |



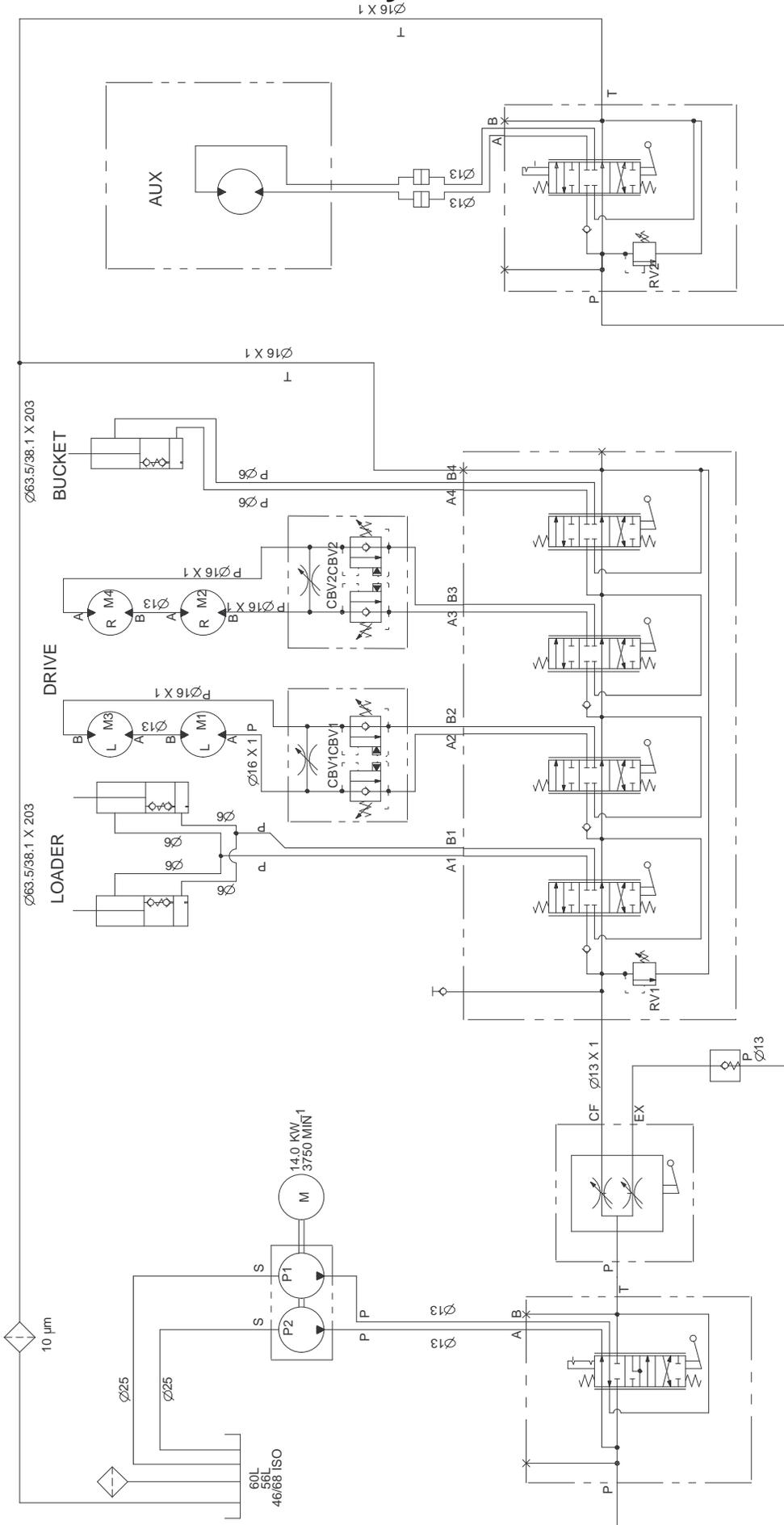
WIRE COLOR CODES

| | | | |
|----|--------|-----|--------|
| BK | BLACK | PK | PINK |
| BN | BROWN | R | RED |
| BU | BLUE | T | TAN |
| GN | GREEN | VIO | VIOLET |
| GY | GREY | W | WHITE |
| OR | ORANGE | Y | YELLOW |



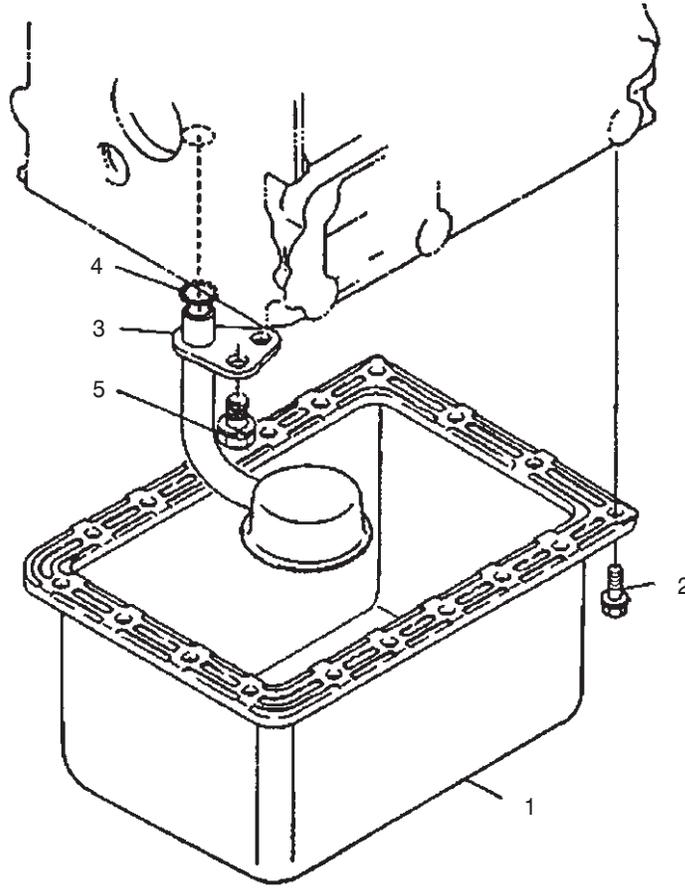
NOTE: SOME WIRE COLORS CHANGE AT REGULATOR CONNECTOR.

Hydraulic Schematic



| DISPLACEMENT AND PRESSURE CHART | | | | | |
|---------------------------------|--------------|---------------|-----------|----------|------|
| COMPONENT | DISPLACEMENT | PRESSURE | FLOWRATE* | | |
| COMPONENT | CU IN/REV | CU CM/REV/PSI | BARS | GPM | LPM |
| P1 | 0.55 CU IN | 9 CC | | 8.5 | 32.1 |
| P2 | 0.24 CU IN | 4 CC | | 3.7 | 14.0 |
| M1, M3 | 29.1 CU IN | 476 CC | | | |
| M2, M4 | 29.1 CU IN | 476 CC | | | |
| RV1 | | | 3000 PSI | 207 BARS | |
| RV2 | | | 3000 PSI | 207 BARS | |
| CBV1 | | | 1000 PSI | 69 BARS | |
| CBV2 | | | 1000 PSI | 69 BARS | |

* FLOWRATE CALCULATED AT 3750 RPM AND 95% EFFICIENCY.



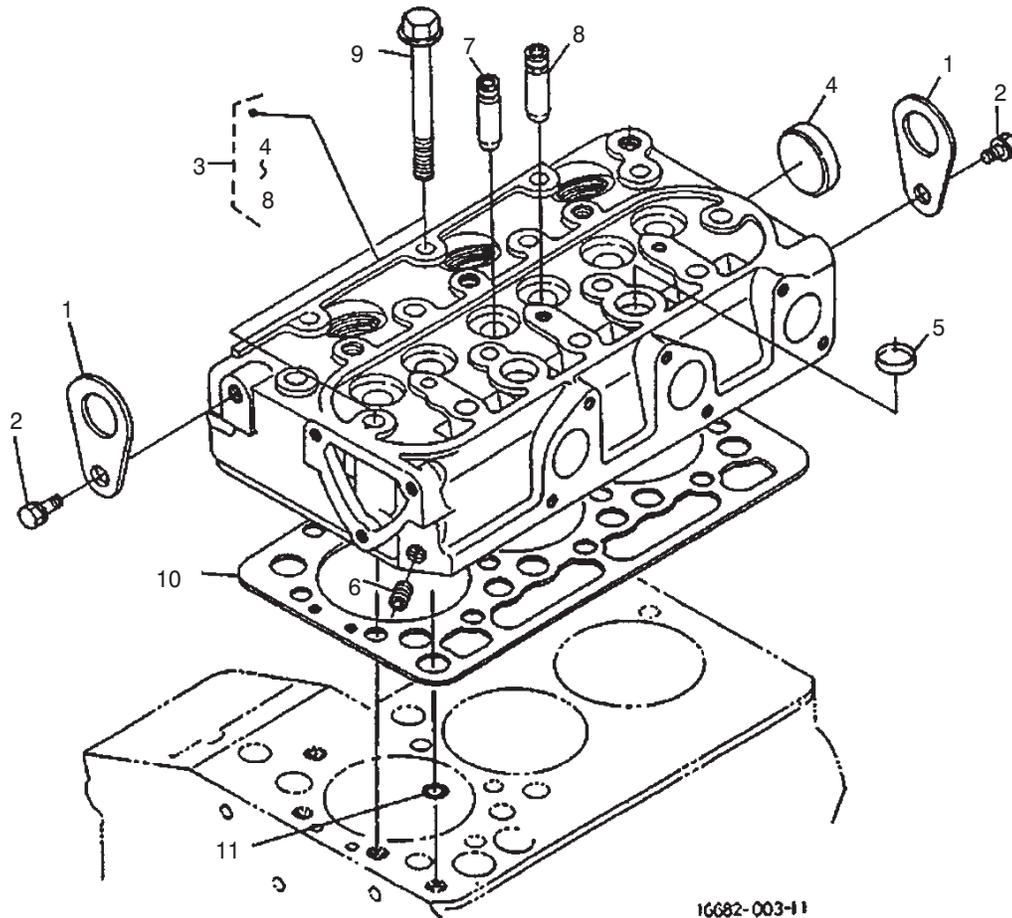
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Sheet No.:3

Oil Pan Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-----------------------|
| 1 | 100-2239 | 1 | Pan-Oil, Comp, |
| 2 | 98-9350 | 18 | Bolt |
| 3 | 100-2001 | 1 | Strainer-Oil Internal |
| 4 | 100-2205 | 1 | O-Ring |
| 5 | 98-7585 | 1 | Bolt |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
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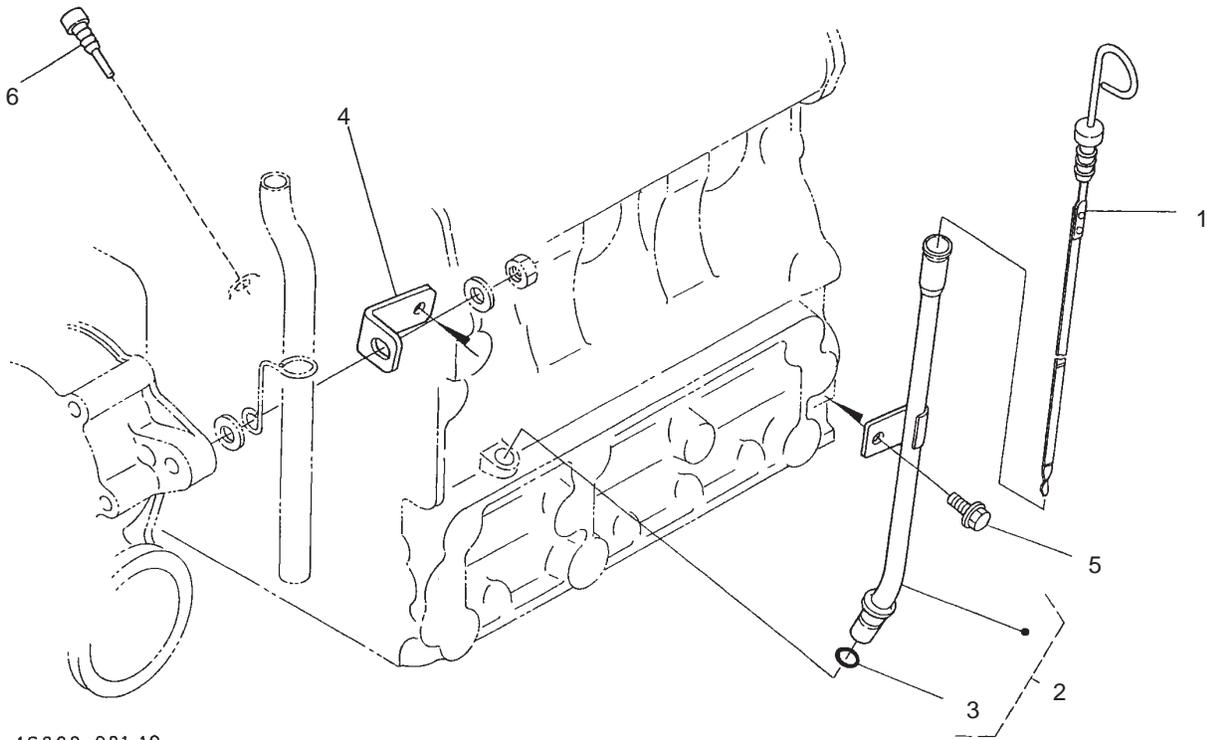
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Sheet No.:4

Cylinder Head Assembly

| Ref. No. | Part No. | Qty. | Description | Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|------------------------------------|----------|----------|------|-------------|
| 1 | 98-7531 | 2 | Engine-Hook | | | | |
| 2 | 98-7526 | 2 | Bolt | | | | |
| 3 | 100-2246 | 1 | Head-Cylinder, Comp. | | | | |
| 4 | 98-9395 | 1 | Cap-Sealing | | | | |
| 5 | 98-9389 | 2 | Cap-Sealing | | | | |
| 6 | 98-7540 | 1 | Cap-Sealing | | | | |
| 7 | 100-1882 | 3 | Guide-Valve, Inlet | | | | |
| 8 | 100-1883 | 3 | Guide-Valve, Exhaust | | | | |
| 9 | 100-1820 | 14 | Bolt-Head, Cylinder | | | | |
| 10 | 100-2043 | 1 | Gasket-Head, Cylinder | | | | |
| 11 | 98-7509 | 1 | O-Ring | | | | |
| *12 | 98-2651 | 1 | Heater-Cylinder Head (Optional) | | | | |

*Not Illustrated



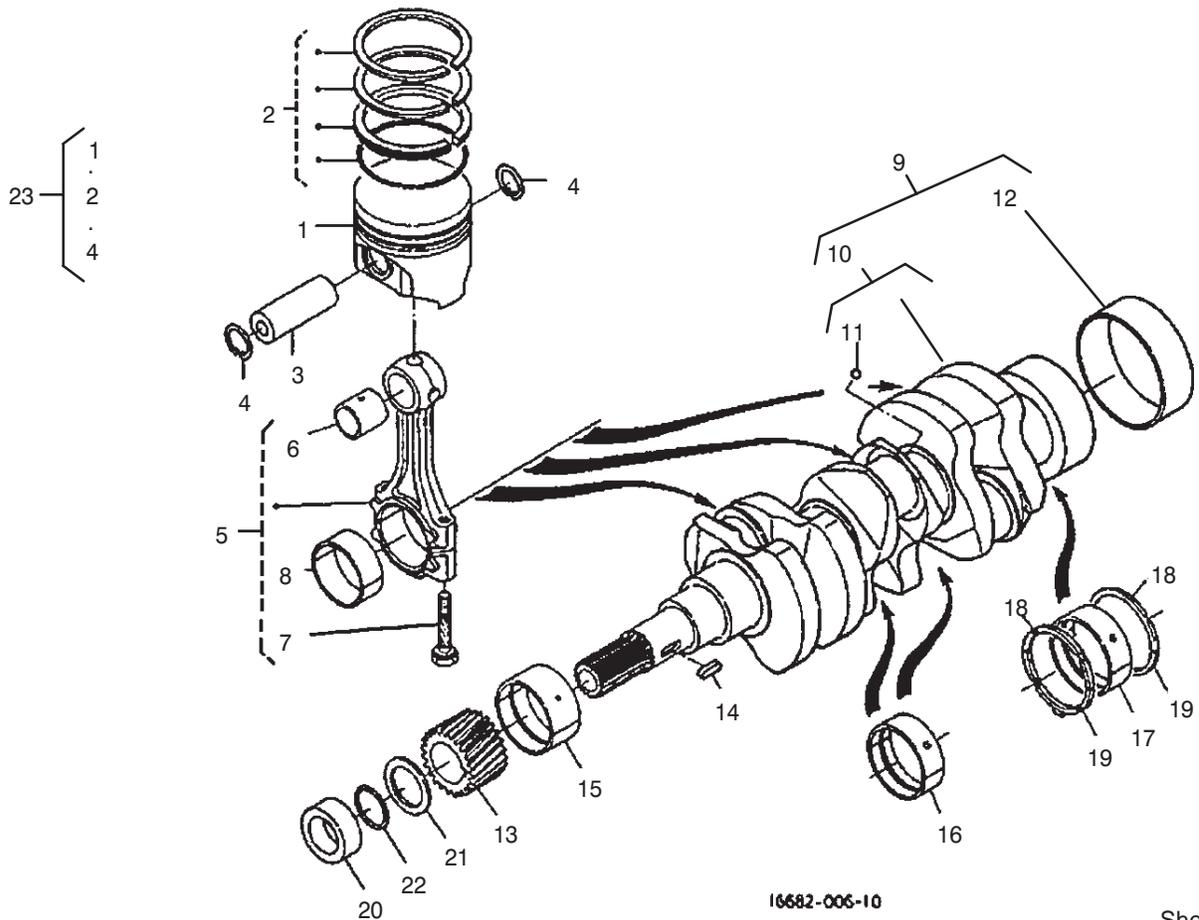
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Sheet No.:7

Dipstick and Guide Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|----------------------|
| 1 | 100-2247 | 1 | Gauge-Oil |
| 2 | 100-2241 | 1 | Oil Gauge Guide ASM |
| 3 | 98-9374 | 1 | O-Ring |
| 4 | 100-2248 | 1 | Support-Guide, Gauge |
| 5 | 100-1774 | 1 | Bolt-Flange |
| 6 | 100-2229 | 1 | Plug-Rubber |

| Ref. No. | Part No. | Qty. | Description |
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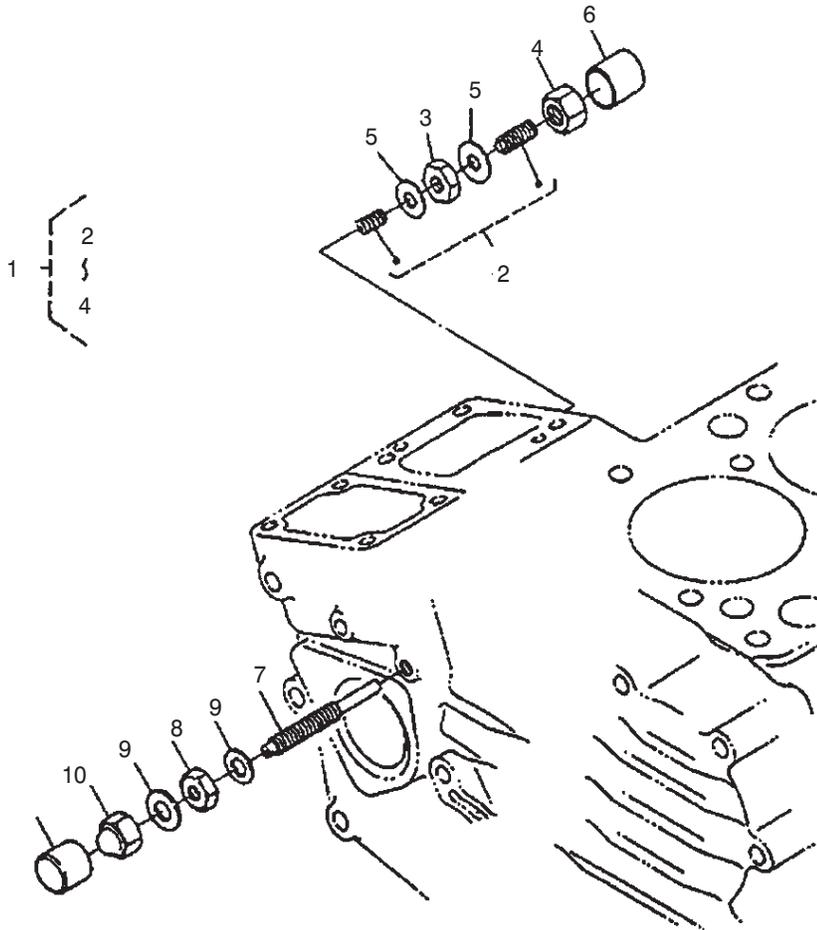
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Sheet No.:10

Piston and Crankshaft Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------------------------|
| 1 | 100-1994 | 3 | Piston (STD.) |
| 1 | 100-1996 | 3 | Piston (+0.25 Mm) |
| 2 | 100-2158 | 3 | Piston Ring ASM |
| 2 | 100-2159 | 3 | Piston Ring ASM |
| 3 | 100-1995 | 3 | Pin-Piston |
| 4 | 100-1835 | 6 | Cir-Cup, Piston Pin |
| 5 | 100-1998 | 3 | Connecting Rod ASM |
| 6 | 100-1997 | 3 | Bush-Pin, Piston |
| 7 | 100-1999 | 6 | Bolt-Rod, Connecting |
| 8 | 100-1942 | 3 | Crankpin-Metal (-0.2 Mm) |
| 8 | 100-1943 | 3 | Crankpin-Metal (-0.4 Mm) |
| 8 | 100-2000 | 3 | Crankpin-Metal (STD.) |
| 9 | 100-2161 | 1 | Crankshaft ASM |
| 10 | 100-2160 | 1 | Crankshaft-Comp. |
| 11 | 100-1791 | 3 | Ball |
| 12 | 100-2054 | 1 | Sleeve-Crankshaft |
| 13 | 100-1891 | 1 | Gear-Crankshaft |
| 14 | 100-1752 | 1 | Key-Feather |
| 15 | 100-1944 | 1 | Crankshaft-Metal (STD.) |
| 15 | 100-1947 | 1 | Crankshaft-Metal (-0.2 Mm) |
| 15 | 100-1948 | 1 | Crankshaft-Metal (-0.4 Mm) |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-----------------------------------|
| 16 | 100-1945 | 2 | Crankshaft-Metal (-0.2 Mm Set) |
| 16 | 100-1946 | 2 | Crankshaft-Metal (-0.4 Mm Set) |
| 16 | 100-2033 | 2 | Crankshaft-Metal (STD. Set) |
| 17 | 100-1870 | 2 | Crankshaft-Metal (-0.2 Mm) |
| 17 | 100-1871 | 2 | Crankshaft-Metal (-0.4 Mm) |
| 17 | 100-2032 | 2 | Crankshaft-Metal (STD.) |
| 18 | 100-1836 | 2 | Metal-Side (STD.) |
| 18 | 100-1838 | 2 | Metal-Side (+0.2 Mm) |
| 18 | 100-1839 | 2 | Metal-Side (+0.4 Mm) |
| 19 | 100-1837 | 2 | Metal-Side (STD.) |
| 19 | 100-1840 | 2 | Metal-Side (+2.0 Mm) |
| 19 | 100-1841 | 2 | Metal-Side (+4.0 Mm) |
| 20 | 100-1890 | 1 | Collar-Crankshaft |
| 21 | 100-1974 | 1 | Slinger-Oil |
| 22 | 100-2209 | 1 | O-Ring |
| 23 | 100-2164 | 1 | Kit-Piston |

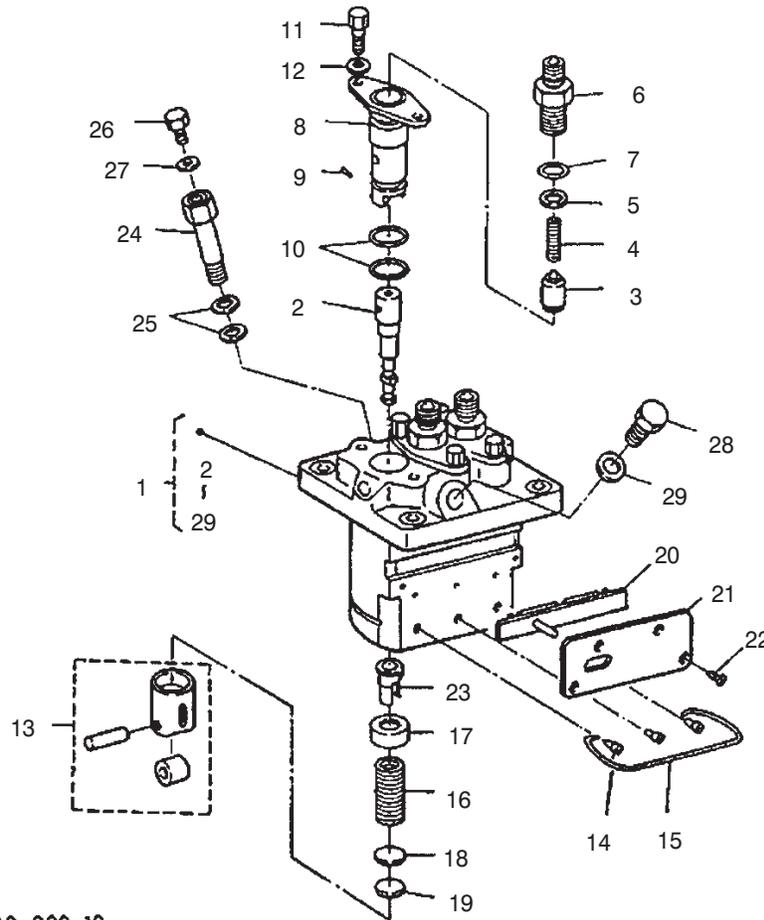


Sheet No.:13

Engine Stop Lever Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|--------------------|
| 1 | 100-1898 | 1 | Idle Apparatus ASM |
| 2 | 100-1899 | 1 | Adj. Bolt ASM |
| 3 | 100-1846 | 1 | Nut |
| 4 | 100-1901 | 1 | Nut-Cap |
| 5 | 98-7428 | 2 | Gasket |
| 6 | 100-1902 | 1 | Cap |
| 7 | 100-1900 | 1 | Bolt-Adjusting |
| 8 | 100-2175 | 1 | Nut-Lock |
| 9 | 98-7654 | 2 | Gasket |
| 10 | 98-9441 | 1 | Nut-Cap |

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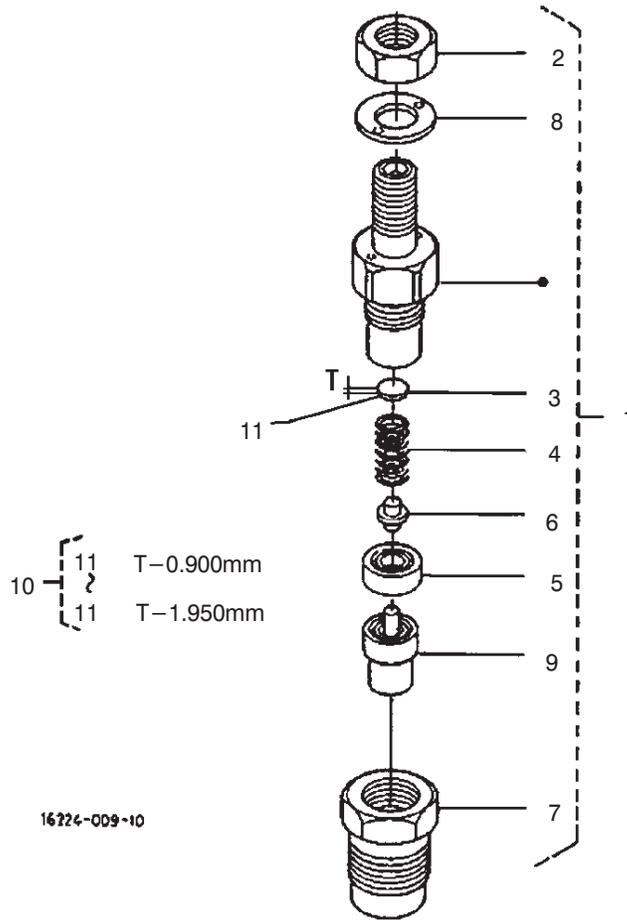


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Sheet No.:15

Injection Pump (Complete Parts)

| Ref. No. | Part No. | Qty. | Description | Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|----------------------|----------|----------|------|-------------|
| 1 | 100-1759 | 1 | Inj. Pump ASM | 27 | 98-9446 | 1 | Gasket |
| 2 | 100-2005 | 3 | Plunger-Pump | 28 | 100-1953 | 1 | Bolt |
| 3 | 98-9421 | 3 | Valve-Delivery | 29 | 98-9451 | 1 | Gasket |
| 4 | 98-9424 | 3 | Spring-Valve, Delev. | | | | |
| 5 | 98-9425 | 3 | Gasket-Valve, Deliv. | | | | |
| 6 | 100-2007 | 3 | Holder-Valve, Deliv. | | | | |
| 7 | 98-9447 | 3 | O-Ring | | | | |
| 8 | 98-9434 | 3 | Flange-Sleeve | | | | |
| 9 | 98-9443 | 3 | Pin-Joint | | | | |
| 10 | 100-1895 | 6 | O-Ring | | | | |
| 11 | 98-9452 | 6 | Screw | | | | |
| 12 | 100-1931 | 6 | Washer | | | | |
| 13 | 98-9422 | 3 | Tappet ASM | | | | |
| 14 | 98-9426 | 3 | Pin-Guide, Tappet | | | | |
| 15 | 98-9450 | 1 | Pin-Clamp | | | | |
| 16 | 98-9428 | 3 | Spring-Plunger | | | | |
| 17 | 98-9427 | 3 | Seat-Spring, Upper | | | | |
| 18 | 98-9429 | 3 | Seat-Spring, Lower | | | | |
| 19 | 98-9433 | 1 | Shim | | | | |
| 20 | 100-1949 | 1 | Rack-Control | | | | |
| 21 | 100-1950 | 1 | Plate | | | | |
| 22 | 98-9442 | 4 | Screw-Head, CSK | | | | |
| 23 | 98-9432 | 3 | Sleeve-Control | | | | |
| 24 | 100-1896 | 1 | Screw-Hollow | | | | |
| 25 | 98-9445 | 2 | Gasket | | | | |
| 26 | 98-9430 | 1 | Screw | | | | |

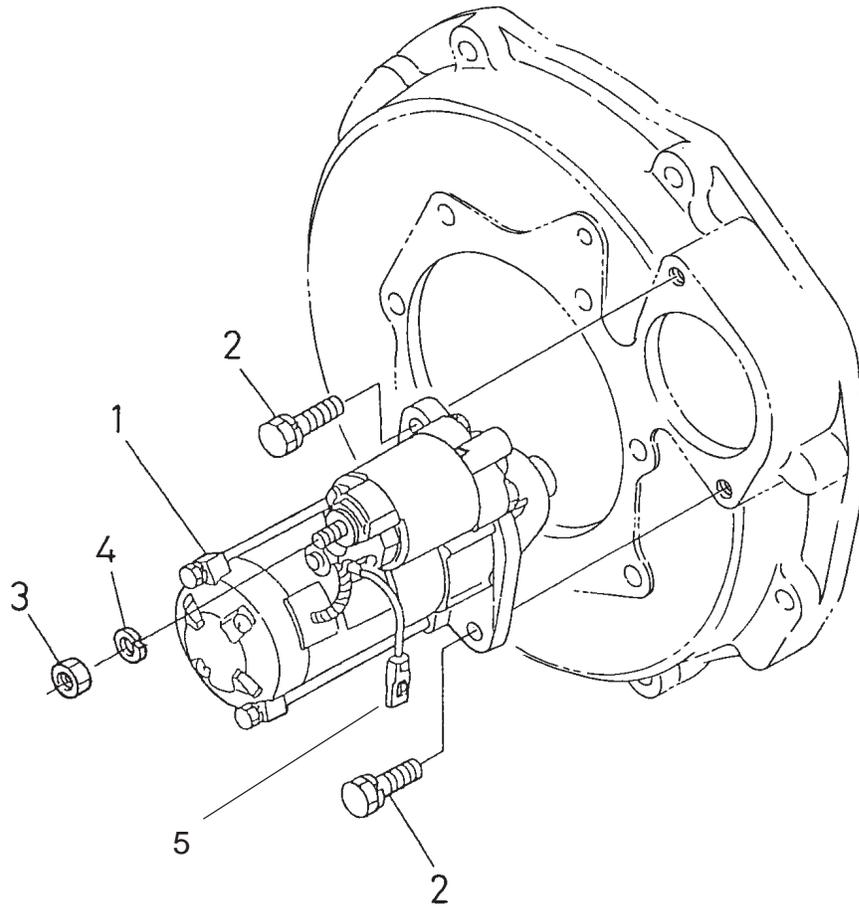


Sheet No.:19

Nozzle Holder (Complete Parts)

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-----------------------|
| 1 | 100-1758 | 3 | Nozzle Holder ASM |
| 2 | 98-7613 | 3 | Nut |
| 3 | 98-7642 | 3 | Washer-Adjusting |
| 4 | 98-7647 | 3 | Spring-Nozzle |
| 5 | 98-7665 | 3 | Piece-Distant |
| 6 | 98-7666 | 3 | Rod-Push |
| 7 | 100-2242 | 3 | Nut-Nozzle |
| 8 | 98-7668 | 3 | Washer |
| 9 | 100-2009 | 3 | Piece-Nozzle |
| 10 | 98-9448 | 1 | Adj Washer ASM |
| 11 | 98-7642 | 1 | Washer - Adj. (.900) |
| 11 | 98-7841 | 1 | Washer - Adj. (.925) |
| 11 | 98-7842 | 1 | Washer - Adj. (.950) |
| 11 | 98-7843 | 1 | Washer - Adj. (.975) |
| 11 | 98-7844 | 1 | Washer - Adj. (1.000) |
| 11 | 98-7845 | 1 | Washer - Adj. (1.025) |
| 11 | 98-7846 | 1 | Washer - Adj. (1.050) |
| 11 | 98-7847 | 1 | Washer - Adj. (1.075) |
| 11 | 98-7848 | 1 | Washer - Adj. (1.100) |
| 11 | 98-7849 | 1 | Washer - Adj. (1.125) |
| 11 | 98-7850 | 1 | Washer - Adj. (1.150) |
| 11 | 98-7851 | 1 | Washer - Adj. (1.175) |
| 11 | 98-7852 | 1 | Washer - Adj. (1.200) |
| 11 | 98-7853 | 1 | Washer - Adj. (1.225) |
| 11 | 98-7854 | 1 | Washer - Adj. (1.250) |
| 11 | 98-7855 | 1 | Washer - Adj. (1.275) |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-----------------------|
| 11 | 98-7856 | 1 | Washer - Adj. (1.300) |
| 11 | 98-7857 | 1 | Washer - Adj. (1.325) |
| 11 | 98-7858 | 1 | Washer - Adj. (1.350) |
| 11 | 98-7859 | 1 | Washer - Adj. (1.375) |
| 11 | 98-7860 | 1 | Washer - Adj. (1.400) |
| 11 | 98-7861 | 1 | Washer - Adj. (1.425) |
| 11 | 98-7862 | 1 | Washer - Adj. (1.450) |
| 11 | 98-7863 | 1 | Washer - Adj. (1.475) |
| 11 | 98-7864 | 1 | Washer - Adj. (1.500) |
| 11 | 98-7865 | 1 | Washer - Adj. (1.525) |
| 11 | 98-7866 | 1 | Washer - Adj. (1.550) |
| 11 | 98-7867 | 1 | Washer - Adj. (1.575) |
| 11 | 98-7868 | 1 | Washer - Adj. (1.600) |
| 11 | 98-7869 | 1 | Washer - Adj. (1.625) |
| 11 | 98-7870 | 1 | Washer - Adj. (1.650) |
| 11 | 98-7871 | 1 | Washer - Adj. (1.675) |
| 11 | 98-7872 | 1 | Washer - Adj. (1.700) |
| 11 | 98-7873 | 1 | Washer - Adj. (1.725) |
| 11 | 98-7874 | 1 | Washer - Adj. (1.750) |
| 11 | 98-7875 | 1 | Washer - Adj. (1.775) |
| 11 | 98-7876 | 1 | Washer - Adj. (1.800) |



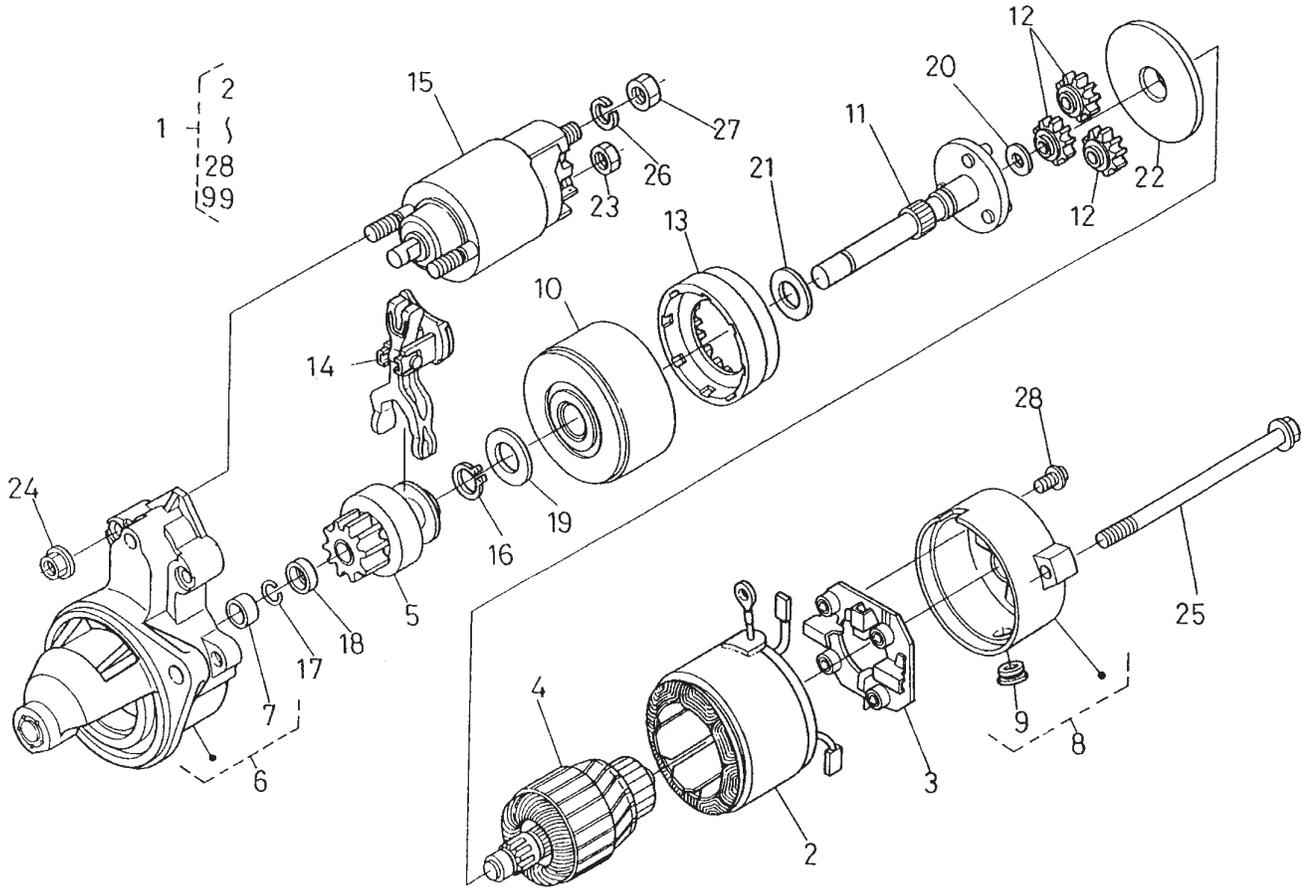
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Sheet No.:23

Starter Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|---------------|
| 1 | 100-2179 | 1 | Starter ASM |
| 2 | 100-7438 | 2 | Bolt |
| 3 | 98-7739 | 1 | Nut |
| 4 | 98-7535 | 1 | Washer-Spring |
| 5 | 99-1434 | 1 | Wire-Lead |

| Ref. No. | Part No. | Qty. | Description |
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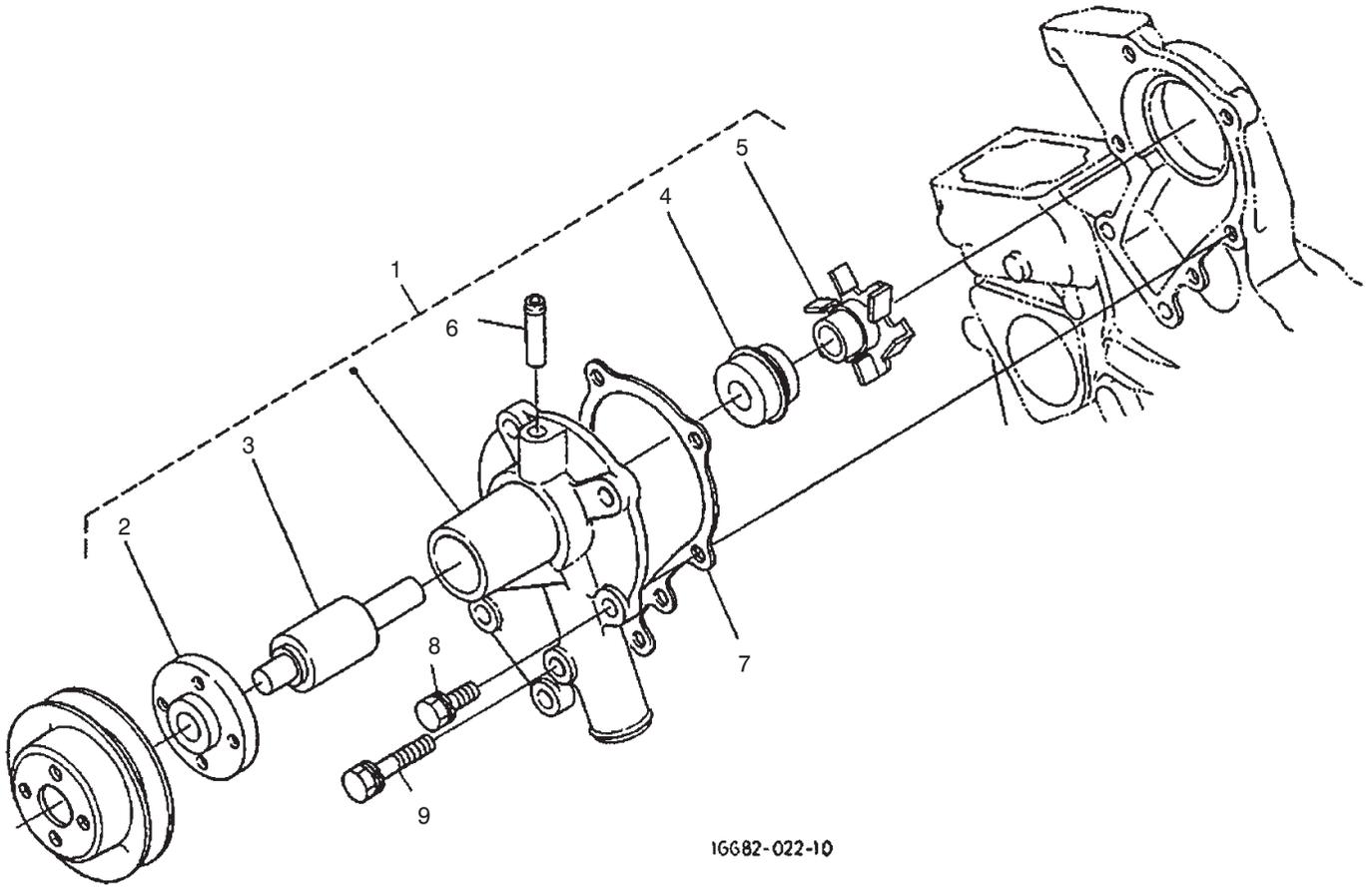
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Sheet No.:24

Starter (Complete Parts)

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|---------------------|
| 1 | 100-2179 | 1 | Starter ASM |
| 2 | 100-2181 | 1 | Starter Yoke ASM |
| 3 | 100-2222 | 1 | Holder ASM |
| 4 | 100-2182 | 1 | Armature ASM |
| 5 | 100-2185 | 1 | Starter Clutch ASM |
| 6 | 100-2180 | 1 | Starter Housing ASM |
| 7 | 100-2183 | 1 | Bearing |
| 8 | 100-2186 | 1 | Frame ASM |
| 9 | 100-2213 | 1 | Cover |
| 10 | 100-2223 | 1 | Bearing ASM |
| 11 | 100-2187 | 1 | Starter Shaft ASM |
| 12 | 100-2220 | 3 | Gear |
| 13 | 100-2221 | 1 | Gear |
| 14 | 100-2218 | 1 | Lever |
| 15 | 100-2211 | 1 | Magnetic Switch ASM |
| 16 | 100-2219 | 1 | Ring-Snap |
| 17 | 100-2212 | 1 | Ring-Snap |
| 18 | 100-2216 | 1 | Collar |
| 19 | 100-2224 | 1 | Washer-Plain |
| 20 | 100-2225 | 1 | Washer-Plain |
| 21 | 100-2226 | 1 | Washer-Plain |
| 22 | 100-2227 | 1 | Plate |
| 23 | 100-2243 | 1 | Nut-Hex |
| 24 | 100-1813 | 2 | Nut |
| 25 | 100-2210 | 2 | Bolt-Through |
| 26 | 100-2215 | 1 | Washer-Spring |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
| 27 | 100-2171 | 1 | Nut-Hex |
| 28 | 100-2188 | 2 | Screw |
| 99 | 99-1434 | 1 | Wire-Lead |



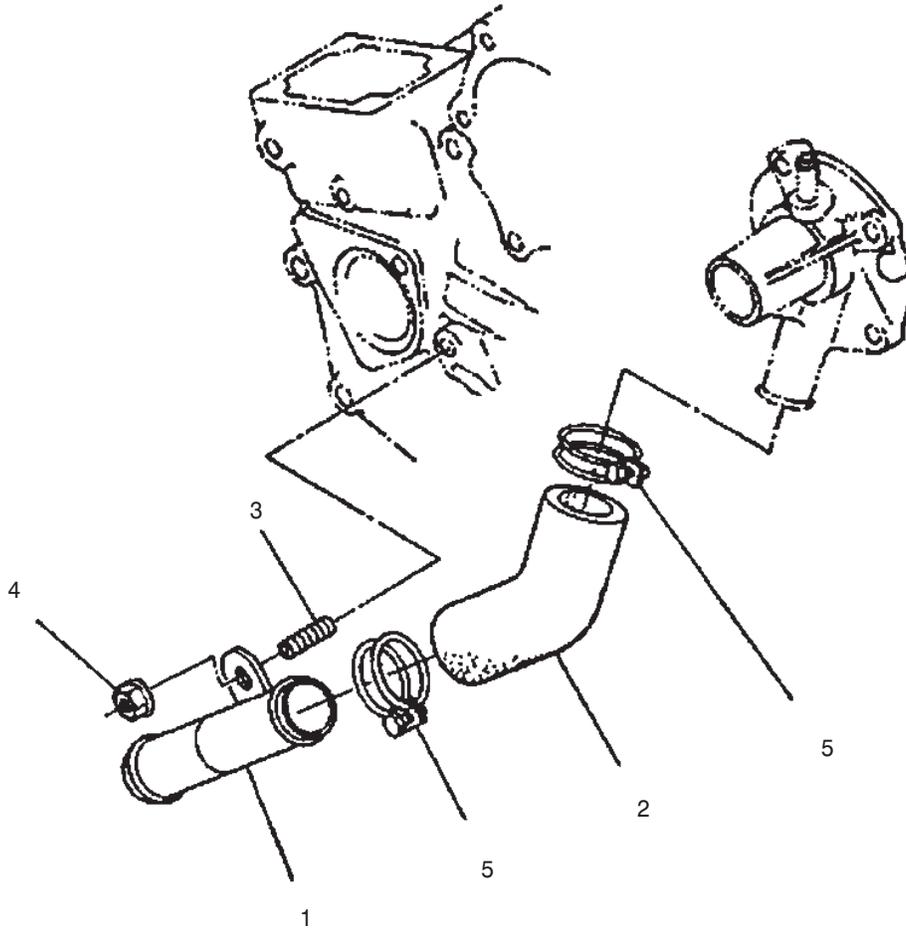
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Sheet No.:27

Water Pump Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|----------------------|
| 1 | 100-2065 | 1 | Water Pump ASM |
| 2 | 100-1933 | 1 | Flange, Water Pump |
| 3 | 100-1934 | 1 | Bearing, Ball |
| 4 | 99-3518 | 1 | Seal ASM, Water Pump |
| 5 | 100-2067 | 1 | Impeller, Water Pump |
| 6 | 100-1932 | 1 | Pipe, Water Return |
| 7 | 100-1976 | 1 | Gasket, Water Pump |
| 8 | 100-1750 | 4 | Bolt |
| 9 | 100-1764 | 1 | Bolt |

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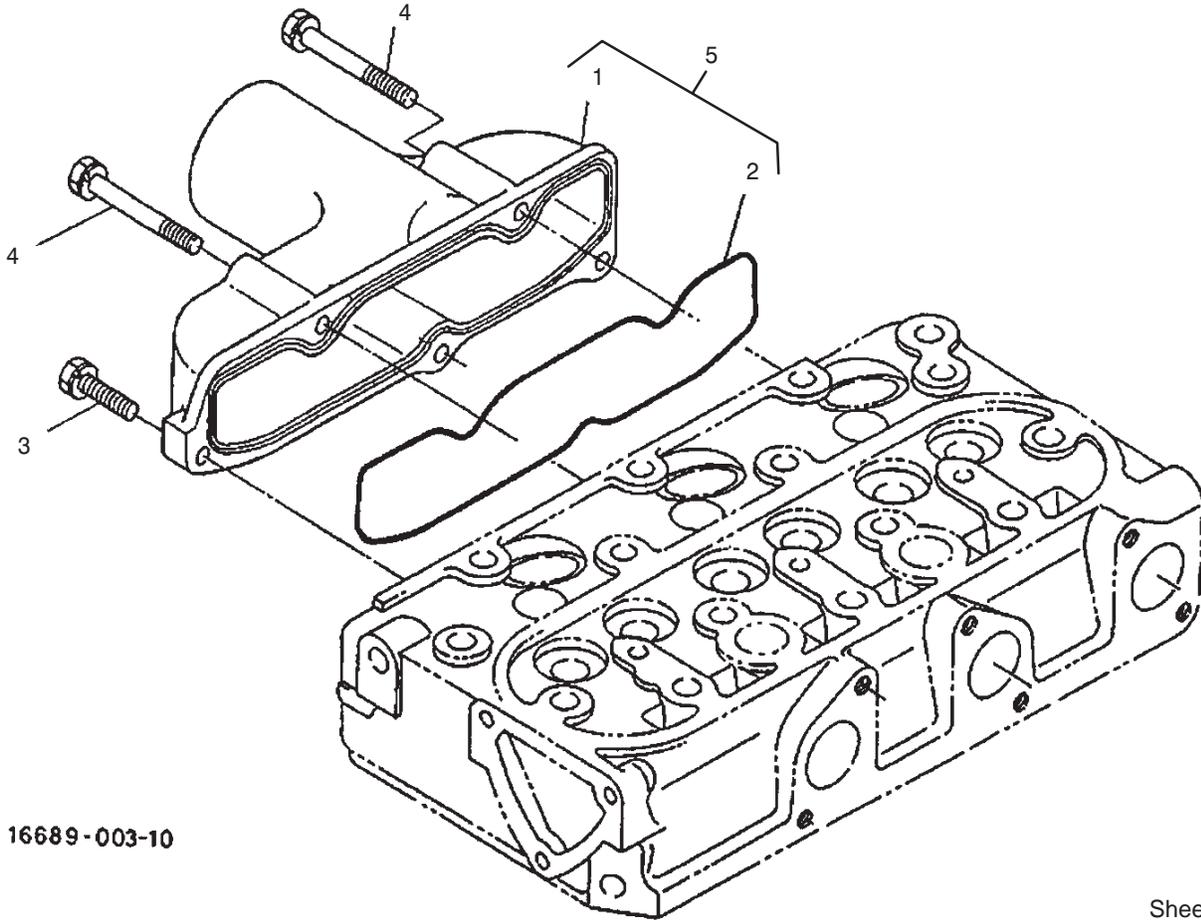


Sheet No.:28

Water Pipe Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
| 1 | 100-1918 | 1 | Pipe, Water |
| 2 | 100-1975 | 1 | Pipe, Water |
| 3 | 100-1924 | 1 | Stud |
| 4 | 100-2203 | 1 | Nut-Flange |
| 5 | 100-1753 | 2 | Clamp, Hose |

| Ref. No. | Part No. | Qty. | Description |
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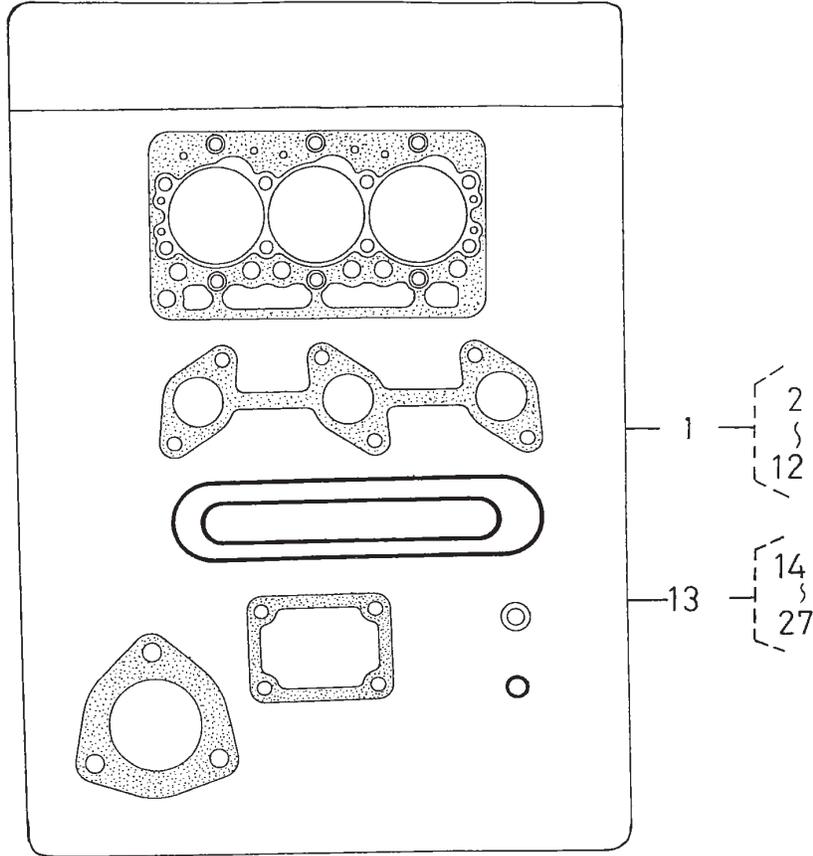
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Sheet No.:30

Inlet Manifold Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|---------------------|
| 1 | 100-2235 | 1 | Manifold, Inlet |
| 2 | 100-1937 | 1 | Gasket, In-Manifold |
| 3 | 98-7605 | 2 | Bolt |
| 4 | 100-1765 | 3 | Bolt |
| 5 | 100-2236 | 1 | Inlet Manifold ASM |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
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19449-018-10

Sheet No.:32

Gasket Kit

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-----------------------|
| 1 | 100-2176 | 1 | Kit-Gasket, Upper |
| 2 | 98-7509 | 1 | O-Ring |
| 3 | 100-2043 | 1 | Gasket-Head, Cylinder |
| 4 | 100-1937 | 1 | Gasket-In-Manifold |
| 5 | 100-1957 | 1 | Gasket |
| 6 | 100-1797 | 6 | Seal-Stem, Valve |
| 7 | 100-2030 | 1 | Gasket-Cover, Head |
| 8 | 98-7654 | 3 | Gasket |
| 9 | 99-3446 | 1 | O-Ring |
| 10 | 100-1919 | 1 | Gasket-Flange, Water |
| 11 | 100-2157 | 1 | Gasket-Thermostat |
| 12 | 100-2238 | 1 | Gasket-Muffler |
| 13 | 100-2174 | 1 | Kit-Gasket, Lower |
| 14 | 100-1976 | 1 | Gasket-Pump, Water |
| 15 | 100-1954 | 1 | Gasket-Case, Gear |
| 16 | 100-2206 | 3 | O-Ring |
| 17 | 100-1929 | 1 | Gasket-Case, Bearing |
| 18 | 100-1876 | 1 | Gasket-Case, Bearing |
| 19 | 100-2209 | 1 | O-Ring |
| 20 | 100-2205 | 1 | O-Ring |
| 21 | 100-2003 | 1 | Gasket-Pump, Oil |
| 22 | 98-9636 | 1 | Gasket-Pump, Fuel |
| 23 | 100-2061 | 1 | Gasket-Gearcase, H/M |
| 24 | 100-1914 | 1 | Gasket |
| 25 | 98-7428 | 2 | Gasket |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
| 26 | 100-2208 | 1 | O-Ring |
| 27 | 100-2207 | 1 | O-Ring |

