Form No. 3448-332 Rev A

TORO®

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Parts Catalog

# Groundsmaster® 3300

## All-Wheel Drive Traction Unit

**Model No. 31902—Serial No. 410016520 and Up**

Register at www.Toro.com.
Original Instructions (EN)

CE

*3448-332* A

# 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 illustration and in parts 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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# Frame and Roll-Over Protection System Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 133-6450SP | 1 | Frame ASM |
| 2 | 139-6254SP | 1 | ROPS ASM, Lower |
| 2:1 | | 1 | ROPS ASM, Lower ● |
| 2:1:2 | 138-2760 | 4 | Nut-Clinch, Hex |
| 3 | 117-3176 | 4 | Screw-HHF |
| 4 | 99-5107 | 10 | Nut-Lock |
| 5 | 138-7470 | 1 | ROPS ASM, Upper |
| 5:3 | 108-2073 | 1 | Decal-Warning |
| 5:4 | 139-6244 | 1 | Decal-ROPS Compliance |
| 6 | 325-13 | 2 | Screw-HH |
| 7 | 110-5696 | 2 | Spring-Leaf |
| 8 | 32105-15 | 4 | Screw-HWH |
| 9 | 32128-23 | 2 | Nut-HF |
| 10 | 103-4553 | 2 | Pin-Fold, ROPS |
| 11 | 138-7419SP | 1 | LH Lift Arm ASM |
| 12 | 138-7429SP | 1 | RH Lift Arm ASM |
| 13 | 138-7489 | 2 | Pin (Machined) |
| 14 | 302-5 | 2 | Fitting-Grease |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 15 | 119-4061 | 2 | Screw-HHF |
| 16 | 104-8301 | 6 | Nut-HF, NI |
| 17 | 104-0108 | 2 | U-Bolt |
| 18 | 95-6231 | 2 | Chain-HOC |
| 19 | 3256-26 | 4 | Washer-Flat |
| 20 | 3218-5 | 6 | Nut-Jam |
| 21 | 115-5300 | 1 | Proximity Switch ASM |
| 21:1 | 117-3207 | 2 | Nut-Hex |
| 21:2 | 117-3208 | 2 | Washer-Lock, Internal Tooth |
| 22 | 139-6170-0P | 1 | Bracket-Sensor Mount [primed] |
| 23 | 3231-2 | 2 | Bolt-CARR |
| 24 | 138-4588 | 1 | Axle ASM |
| 24:2 | 99-6964 | 2 | Bushing-Axle |
| 24:3 | 104-0015 | 4 | Bushing-Flange |
| 24:4 | 302-5 | 2 | Fitting-Grease |
| 25 | 32151-77 | 2 | Ring-Retaining, External |
| 26 | 69-8890 | 2 | Cap-Spindle |

● Not serviced separately

# Frame and Roll-Over Protection System Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 27 | 3234-1 | 2 | Screw-HHF |
| 28 | 140-6101 | 1 | Pin ASM-Axle Pivot |
| 28:2 | 32121-32 | 1 | Pin-Roll |
| 29 | 99-8432 | 2 | Washer-Thrust |
| 31 | 71-4540 | 1 | Washer-Thrust |
| 32 | 3296-15 | 1 | Nut-Lock, NI |
| 33 | 302-33 | 1 | Fitting-Grease |
| 34 | 133-6462 | 1 | Tie Rod ASM |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 35 | 3272-12 | 2 | Pin-Cotter |
| 36 | 76-2980 | 2 | Washer-Thrust |
| 37 | 138-4452 | 2 | Pad-Stop, Deck |
| 38 | 3289-4 | 4 | Screw-FH |
| 40 | 325-7 | 2 | Screw-HH |
| 41 | 138-4593 | 2 | Pin |
| 42 | 133-9682 | 2 | Screw-Hfh |

● Not serviced separately

# LH Lift Arm Assembly No. 138-7419SP

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1:2:2 | 104-0015 | 2 | Bushing-Flange |
| 2 | 32151-34 | 1 | Ring-Retaining |
| 3 | 105-7441 | 1 | Bearing-Spherical |
| 4 | 302-5 | 1 | Fitting-Grease |
| 5 | 139-0910 | 1 | Bolt-Shoulder |
| 6 | 99-5107 | 1 | Nut-Lock |
| 7 | 139-0948 | 1 | Pad-Ride, Pin |

# RH Lift Arm Assembly No. 138-7429SP

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1:2:2 | 104-0015 | 2 | Bushing-Flange |
| 2 | 32151-34 | 1 | Ring-Retaining |
| 3 | 105-7441 | 1 | Bearing-Spherical |
| 4 | 302-5 | 1 | Fitting-Grease |
| 5 | 139-0910 | 1 | Bolt-Shoulder |
| 6 | 99-5107 | 1 | Nut-Lock |

# Tie Rod Assembly No. 133-6462

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 139-6199 | 1 | Tie Rod End |
| 1:1 | 302-5 | 1 | Fitting-Grease |
| 1:2 | 105-7835 | 1 | Seal |
| 2 | 133-6463 | 1 | Tie-Rod |
| 3 | 84-5300 | 1 | Nut-Jam |
| 4 | 110-5337 | 1 | Nut-Jam |
| 5 | 139-6200 | 1 | Tie Rod End |
| 5:1 | 302-5 | 1 | Fitting-Grease |
| 5:2 | 105-7835 | 1 | Seal |
| 6 | 140-6135 | 2 | Nut-Hex, Slotted |

# Rear Bumper Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 139-2328SP | 1 | Rear Bumper |
| 3 | 125-2667 | 1 | Lock-Weight |
| 4 | 104-8301 | 2 | Nut-HF, NI |
| 5 | 3234-41 | 4 | Screw-HHF |
| 6 | 133-9682 | 2 | Screw-Hfh |
| 8 | 32128-43 | 6 | Nut-Flange |
| 9 | 144-0553 | 1 | Strip-Rubber |

# Front Axle and Parking Brake Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 120-6253-03 | 2 | Adapter-Brake |
| 2 | 138-4499 | 2 | Clip-Spring |
| 3 | 137-2591 | 2 | Spring-Extension |
| 4 | 120-0235 | 1 | LH Brake ASM |
| 5 | 120-0233 | 1 | RH Brake ASM |
| 6 | 325-12 | 8 | Screw-HH |
| 7 | 3296-23 | 8 | Nut-Lock, NI |
| 8 | 137-2470 | 2 | Hub ASM |
| 8:2 | 114-3918 | 5 | Stud-Wheel |
| 9 | 114-8864 | 2 | Drum-Brake |
| 10 | 242-50 | 10 | Nut-Lug |
| 11 | 323-4 | 8 | Screw-HH |
| 12 | 283-58 | 2 | Pin-Clevis |
| 13 | 107-9319 | 2 | Nut-Hex |
| 14 | 144-0517-0P | 1 | Parking Brake Mount [primed] |
| 15 | 137-2640 | 1 | Cable-Brake, Adjustable RH |
| 16 | 137-2641 | 1 | Cable-Brake, Adjustable LH |
| 17 | 131-8320 | 1 | Lever-Brake, Park |
| 18 | 144-0516 | 1 | Link-Park, Brake |
| 19 | 283-10 | 1 | Pin-Clevis |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 20 | 87-3480 | 1 | Bracket-Equalizer, Cable |
| 21 | 1-808280 | 1 | Pin-Clevis |
| 22 | 1-806003 | 2 | Pin-Cotter |
| 23 | 3274-55 | 2 | Screw-HSBH |
| 24 | 104-8300 | 6 | Nut-HF, NI |
| 25 | 121-4605 | 1 | Washer-Spring |
| 26 | 131-8496 | 1 | Washer-Plain |
| 27 | 108-6496 | 1 | Switch (W/Boot) |
| 28 | 95-3003 | 2 | Screw-PPHTF |
| 29 | 3290-354 | 1 | Nut-Speed |
| 30 | 116-0629 | 2 | Screw-CARR |
| 31 | 3230-23 | 2 | Bolt-CARR |
| 32 | 3256-74 | 2 | Washer-Flat |
| 33 | 119-1415 | 2 | Pin-Cotter, Locking |
| 34 | 3-3287 | 2 | Spacer |
| 35 | 138-7475 | 1 | Cover-Brake, Parking |
| 36 | 117-2382 | 2 | Plug-Plastic |
| 37 | 132-7282 | 1 | Strip-Foam |
| 38 | 139-6224 | 1 | Decal-Parking Brake |
| 39 | 115-5417 | 3 | Strip-Foam |
| 40 | 144-0499 | 2 | Washer-Epdm |

# Front Axle and Parking Brake Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 41 | 3256-78 | 2 | Washer-Flat |
| 42 | 321-21 | 1 | Screw-HH |
| 43 | 104-7201 | 1 | Nut-HF, NI |

# Left Hand Brake Assembly No. 120-0235

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 139-5950 | 1 | Brake Shoe Kit |
| 2 | 108-6983 | 1 | Brake Hardware Kit |
| 3 | 120-0236 | 1 | LH Actuator Kit |
| 3:1 | | 1 | Housing ● |
| 3:2 | | 1 | Lever-LH ● |
| 3:3 | | 1 | Pin-Pivot ● |
| 3:4 | | 1 | E-Ring ● |
| 4 | 110-8885 | 1 | Dust Boot Kit |
| 4:1 | | 1 | Boot ● |
| 4:2 | | 1 | Plate-Back Up ● |
| 4:3 | | 2 | Rivet ● |

● Not serviced separately

# Right Hand Brake Assembly No. 120-0233

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 139-5950 | 1 | Brake Shoe Kit |
| 2 | 108-6983 | 1 | Brake Hardware Kit |
| 3 | 120-0234 | 1 | RH Actuator Kit |
| 3:1 | | 1 | Housing ● |
| 3:2 | | 1 | Lever-RH ● |
| 3:3 | | 1 | Pin-Pivot ● |
| 3:4 | | 1 | E-Ring ● |
| 4 | 110-8885 | 1 | Dust Boot Kit |
| 4:1 | | 1 | Boot ● |
| 4:2 | | 1 | Plate-Back Up ● |
| 4:3 | | 2 | Rivet ● |

● Not serviced separately

# Hydraulic Drive Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 140-3142 | 1 | Link-Drag, RH |
| 2 | 140-3144 | 1 | Link-Drag, LH |
| 3 | 107-4517-03 | 2 | Housing-Motor |
| 4 | 138-0303 | 1 | Motor-Hydraulic, CCW |
| 5 | 138-0304 | 1 | Motor-Hydraulic, CW |
| 6 | 137-2478 | 1 | Motor-Hydraulic, CW |
| 7 | 137-2458 | 1 | Motor-Hydraulic, CCW |
| 8 | 3234-6 | 6 | Screw-HHF |
| 9 | 3234-46 | 8 | Screw-HHF |
| 10 | 18-3209 | 2 | Wheel Hub/Stud ASM |
| 10:1 | 10-6870-03 | 1 | Hub-Wheel |
| 10:2 | 10-6830 | 4 | Stud-Type, Drive |
| 11 | 116-1399 | 2 | Locknut |
| 12 | 242-50 | 8 | Nut-Lug |
| 13 | 340-14 | 4 | Fitting-HYD, 45 DEG |
| 13:1 | 237-65 | 1 | O-Ring |
| 13:2 | 237-80 | 1 | O-Ring |
| 14 | 137-2590 | 2 | Wheel ASM |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 14:1 | 137-2594 | 1 | Tire |
| 14:2 | 137-2595 | 1 | Rim |
| 14:3 | 232-27 | 1 | Stem-Valve |
| 15 | 137-2592 | 2 | Wheel ASM |
| 16 | 137-5863 | 2 | Hose ASM |
| 17 | 137-5864 | 2 | Hose ASM |
| 18 | 138-0334 | 1 | Hydraulic Tube ASM |
| 18:1 | 237-65 | 1 | O-Ring |
| 19 | 138-0335 | 1 | Hydraulic Tube ASM |
| 19:1 | 237-65 | 1 | O-Ring |
| 20 | 138-0337 | 1 | Hydraulic Tube ASM |
| 20:1 | 237-65 | 1 | O-Ring |
| 21 | 138-0338 | 1 | Hydraulic Tube ASM |
| 21:1 | 237-65 | 1 | O-Ring |
| 22 | 340-74 | 4 | Nut-Lock, Bulkhead |
| 31 | 138-4489 | 1 | Manifold-Steering/Lift |
| 32 | 86-3010 | 1 | Filter-Oil |
| 33 | 3234-1 | 3 | Screw-HHF |

# Hydraulic Motor Assembly No. 138-0303

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 110-8897 | 1 | Seal Kit |
| 2 | 3257-42 | 1 | Key-Woodruff |

# Hydraulic Motor Assembly No. 138-0304

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 110-8897 | 1 | Seal Kit |
| 2 | 3257-42 | 1 | Key-Woodruff |

# Hydraulic Motor Assembly No. 137-2478

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 19 | 3257-42 | 1 | Key-Woodruff |
| 20 | 110-8896 | 1 | Seal Kit |

# Hydraulic Motor Assembly No. 137-2458

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 19 | 3257-42 | 1 | Key-Woodruff |
| 20 | 110-8896 | 1 | Seal Kit |

# Steer/Lift Manifold Assembly No. 138-4489

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 3 | 112-9213 | 3 | Plug |
| 4 | 110-8883 | 1 | Plug-Orifice (0.040) |
| 5 | 112-9206 | 1 | Solenoid Valve ASM |
| 5:1 | 105-9156 | 1 | Seal Kit |
| 5:2 | 110-2634 | 1 | Nut-Coil |
| 6 | 114-2873 | 1 | Check Valve ASM |
| 6:1 | 105-9156 | 1 | Seal Kit |
| 7 | 139-1213 | 1 | Valve-Check |
| 8 | 120-6562 | 1 | Valve-Solenoid |
| 8:1 | 105-9156 | 1 | Seal Kit |
| 9 | 139-6298 | 1 | Valve-Relief (Bi-Directional) |
| 10 | 110-8881 | 2 | Valve-Check |
| 10:1 | 105-9159 | 1 | Seal Kit ● |
| 11 | 144-0501 | 1 | Valve-Logic, 220 PSI (Adjustable) |
| 11:1 | 119-2159 | 1 | Seal Kit |
| 12 | 110-0497 | 2 | Coil-Solenoid |
| 13 | 110-2634 | 2 | Nut-Coil |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 14 | 139-6296 | 1 | Orifice-Check 0.100 DIA |
| 15 | 139-6297 | 1 | Nipple-Filter |
| 16 | 59-7410 | 2 | Fitting-Diagnostic |
| 16:1 | 237-42 | 1 | O-Ring |
| 17 | 354-79 | 2 | Cap-Dust |
| 18 | 340-4 | 1 | Fitting-Straight |
| 18:1 | 237-30 | 1 | O-Ring |
| 18:2 | 237-79 | 1 | O-Ring |
| 19 | 340-1 | 1 | Fitting-Straight |
| 19:1 | 237-21 | 1 | O-Ring |
| 19:2 | 237-42 | 1 | O-Ring |
| 20 | 340-2 | 2 | Fitting-Straight |
| 20:1 | 237-22 | 1 | O-Ring |
| 20:2 | 237-42 | 1 | O-Ring |
| 21 | 340-98 | 1 | Fitting-Elbow, 90 DEG |
| 21:1 | 237-79 | 1 | O-Ring |
| 21:2 | 237-30 | 1 | O-Ring |
| 22 | 340-7 | 5 | Fitting-Straight |

● Not illustrated

# Steer/Lift Manifold Assembly No. 138-4489 (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 22:1 | 237-65 | 1 | O-Ring |
| 22:2 | 237-80 | 1 | O-Ring |
| 23 | 340-9 | 1 | Fitting-STR |
| 23:1 | 237-58 | 1 | O-Ring |
| 23:2 | 237-81 | 1 | O-Ring |
| 24 | 340-17 | 1 | Fitting-Elbow, 90 DEG |
| 24:1 | 237-65 | 1 | O-Ring |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 24:2 | 237-80 | 1 | O-Ring |
| 25 | 340-77 | 1 | Fitting-Elbow, 90 DEG |
| 25:1 | 237-22 | 1 | O-Ring |
| 25:2 | 237-42 | 1 | O-Ring |
| 26 | 353-989 | 2 | Plug-Hex, Hollow |
| 26:1 | 237-42 | 1 | O-Ring |

● Not illustrated

# Engine, Radiator Hoses and Shroud Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 139-6183 | 1 | Engine-Yanmar 3Tnv88C-Dtr6 |
| 2 | 138-0409-0P | 1 | Mount-Engine, LH Front |
| 3 | 138-0410-0P | 1 | Mount-Engine, Rear 37HP [primed |
| 4 | 138-0408-0P | 1 | Mount-Engine, RH Front |
| 5 | 120-6274 | 2 | Mount-Engine |
| 6 | 139-0856 | 1 | Mount-Engine |
| 7 | 48-9590 | 14 | Washer-Lock |
| 8 | 33115-025 | 14 | Screw-HH |
| 9 | 3234-29 | 5 | Screw-HHF |
| 10 | 104-8300 | 8 | Nut-HF, NI |
| 11 | 80-6990 | 3 | Washer-Hardened |
| 12 | 323-14 | 3 | Screw-HH |
| 13 | 138-6462 | 3 | Support-Isolator |
| 15 | 104-8301 | 3 | Nut-HF, NI |
| 16 | 138-4532-0P | 1 | Bracket-Filter Mount [primed] |
| 17 | 125-2914 | 1 | Filter-Separator |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 17:1 | 125-2915 | 1 | Filter-Fuel/Water Separator |
| 18 | 1-807512 | 2 | Bolt-CARR |
| 19 | 2412-87 | 1 | Clamp-Cable |
| 20 | 104-7201 | 2 | Nut-HF, NI |
| 21 | 3230-10 | 2 | Bolt-CARR |
| 22 | 353-781 | 2 | Fitting-HYD, 90 |
| 23 | 92-2379 | 6 | Clamp-Hose |
| 24 | 138-0419 | 1 | Shroud-Fan |
| 25 | 138-0429 | 1 | Hose-Radiator, Upper |
| 26 | 138-0430 | 1 | Hose-Radiator, Lower |
| 27 | 2412-34 | 3 | Clamp-Hose |
| 28 | 2412-3 | 1 | Clamp-Hose |
| 29 | 33105-020 | 4 | Screw-HHF |
| 30 | 120-1959 | 3 | Clamp |
| 31 | 139-6255 | 1 | Hose-Fuel |
| 32 | 126-1805 | 1 | Hose |
| 33 | 110-3257 | 1 | Hose-Fuel |
| 34 | 110-4101 | 1 | Hose-Fuel |
| 35 | 139-6276 | 1 | Hose-Fuel |

# Engine, Radiator Hoses and Shroud Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 36 | 116-7205 | 1 | Cooler |
| 37 | 3234-4 | 4 | Screw-HHF |
| 39 | 103-1988 | 2 | Clamp-Hose |
| 40 | 3234-47 | 1 | Screw-HHF |
| 41 | 107069 | 4 | Clip |

# Air Cleaner and Exhaust Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 144-0569 | 1 | Pipe-Exhaust |
| 2 | 48-9590 | 2 | Washer-Lock |
| 3 | 33115-025 | 2 | Screw-HH |
| 4 | 138-0432-0P | 1 | Bracket-Air Filter [primed] |
| 5 | 33104-020 | 3 | Screw-HHF |
| 6 | 139-6176 | 4 | Mount-ISO |
| 7 | 3256-1 | 4 | Washer-Flat |
| 8 | 18-2130 | 2 | Clamp |
| 9 | 104-7201 | 6 | Nut-HF, NI |
| 10 | 137-5809 | 1 | Hose-Cleaner, Air |
| 11 | 136-4481 | 1 | Air Cleaner ASM |
| 12 | 3230-29 | 2 | Screw-CARR |
| 13 | 104-8300 | 7 | Nut-HF, NI |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 14 | 2412-130 | 2 | Clamp-Hose |
| 15 | 138-4455 | 1 | Hose-Intake |
| 16 | 120-1959 | 1 | Clamp |
| 17 | 2412-53 | 1 | Clamp-Drive, Worm |
| 18 | 3230-23 | 1 | Bolt-CARR |
| 19 | 135-6367 | 4 | Screw-HSBH |
| 20 | 139-6181-0P | 1 | Bracket-Sensor, Dpf |
| 21 | 120-4654 | 2 | Screw-HHF |
| 22 | 139-6185 | 1 | Bracket-Heat Shield, Rear |
| 23 | 139-6184 | 1 | Bracket-Heat Shield, Lower |
| 24 | 3234-47 | 4 | Screw-HHF |
| 25 | 144-0572-03 | 1 | Support-Tailpipe |

# Air Cleaner Assembly No. 136-4481

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 94-1416 | 1 | Adapter-Indicator |
| 2 | 98-9771 | 1 | Cover ASM |
| 3 | 94-1414 | 1 | Valve-Vacuator |
| 4 | 108-3810 | 1 | Filter-Air |
| 5 | 98-4525 | 1 | Bracket-Cleaner, Air |
| 6 | 93-9164 | 1 | Indicator-Mini |

# Radiator and Cooler Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 138-7420 | 1 | Radiator/Oil Cooler ASM |
| 2 | 92-2379 | 2 | Clamp-Hose |
| 3 | 139-6232 | 1 | Shroud-Cooler ASM |
| 3:2 | 115-8155 | 1 | Decal-Warning |
| 4 | 3234-47 | 2 | Screw-HHF |
| 5 | 104-8300 | 11 | Nut-HF, NI |
| 6 | 139-6229 | 1 | Strap-Cooler |
| 6:2 | 93-7272 | 1 | Decal-Warning |
| 7 | 3230-23 | 9 | Bolt-CARR |
| 8 | 1-807512 | 3 | Bolt-CARR |
| 9 | 104-7201 | 3 | Nut-HF, NI |
| 10 | 3234-42 | 2 | Screw-HHF |
| 11 | 104-8301 | 2 | Nut-HF, NI |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 12 | 138-4410 | 2 | Seal-Foam |
| 13 | 138-4411 | 2 | Seal-Foam |
| 14 | 138-4453 | 1 | Foam-Radiator |
| 15 | 138-4454 | 2 | Foam-Radiator, Side |
| 16 | 138-4461-0P | 1 | Bracket-Shroud Retainer |
| 17 | 139-6230 | 1 | Bracket-Bottle Mount |
| 17:2 | 93-7272 | 1 | Decal-Warning |
| 18 | 106-1126 | 1 | Hose-Fuel |
| 19 | 108-1393 | 1 | Strip-Foam |
| 20 | MSC14544 | 2 | Grommet |
| 22 | 140-5841 | 2 | Trim-Cooler |
| 23 | 130-9182 | 1 | Foam-Radiator, Short |
| 24 | 144-0472 | 1 | Decal-Coolant Level |

# Fuel and Hydraulic Tank Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 138-0291 | 1 | Fuel Tank |
| 2 | 138-4418 | 1 | Hydraulics Tank ASM |
| 3 | 114-4920 | 1 | Hose |
| 4 | 138-7392 | 1 | Hydraulic Tube ASM |
| 5 | 2412-119 | 2 | Clamp-Hose, Worm Drive |
| 6 | 138-7361 | 1 | Hose-Suction |
| 7 | 2412-34 | 1 | Clamp-Hose |
| 8 | 139-6228 | 1 | Tank Support-Hydraulic |
| 8:2 | 127-0392 | 1 | Decal-Hot Surface |
| 9 | 138-0441-03 | 1 | Bracket-Tank Hold Down, LH |
| 10 | 138-7315-03 | 1 | Bracket-Tank Hold Down, RH |
| 11 | 138-4404-03 | 1 | Tray-Tank/Battery |
| 12 | 138-7365-03 | 1 | Bracket-Tank Mount, Front LH |
| 14 | 126-4781 | 1 | Step-Deck |
| 15 | 104-8301 | 19 | Nut-HF, NI |
| 16 | 3231-27 | 15 | Screw-CARR |
| 17 | 3230-3 | 1 | Screw-CARR |
| 18 | 3230-23 | 2 | Bolt-CARR |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 19 | 104-8300 | 3 | Nut-HF, NI |
| 20 | 3256-23 | 2 | Washer-Plain |
| 21 | 3253-4 | 2 | Washer-Lock |
| 22 | 322-3 | 2 | Screw-HH |
| 23 | 109-2365 | 8 | Bumper-Rubber |
| 24 | 104-7201 | 8 | Nut-HF, NI |
| 25 | 139-0927-01 | 1 | Bracket-Mount, Step |
| 26 | 2412-98 | 4 | Clamp-Hose |
| 27 | 92-2379 | 2 | Clamp-Hose |
| 28 | 131-8402 | 2 | Strap-Down, Hold |
| 29 | 125-9171 | 1 | Cap-Fuel |
| 30 | 138-7499 | 1 | Fitting-Strainer |
| 31 | 138-7388 | 1 | Dipstick |
| 32 | 94-8166 | 1 | O-Ring |
| 33 | 93-7498 | 1 | Plug-Plastic |
| 34 | 139-6252 | 2 | Tube-Vent |
| 35 | 139-0940-03 | 1 | Bracket-Tank Mount, Front RH |
| 36 | 139-6253 | 2 | Hose-Fuel |
| 37 | 2412-72 | 4 | Clip-Closed, Insulated |
| 38 | 99-6810 | 4 | Screw-HHF |

# Fuel and Hydraulic Tank Assembly (continued)

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 39 | 107-3154 | 6 | Nut-Push |
| 40 | 3231-22 | 4 | Screw-CARR |

# Fuel Tank Assembly No. 138-0291

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 138-7385 | 1 | Fuel Tank W/Inserts ASM |
| 2 | 46-6560 | 3 | Bushing |
| 3 | 104-5228 | 1 | Fitting-Elbow, 90 DEG |
| 4 | 46-6550 | 1 | Fitting-Elbow, 90 DEG |
| 5 | 139-0872 | 1 | Gauge-Fuel |
| 5:1 | 119-0508 | 1 | Seal |
| 5:2 | 117-8404 | 1 | Dial-Gauge |
| 6 | 138-7389 | 1 | Pipe-Stand |

# Hydraulic Tank Assembly No. 138-4418

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 138-7386 | 1 | Tank-Hydraulic W/Inserts |
| 2 | 353-989 | 1 | Plug-Hex, Hollow |
| 2:1 | 237-42 | 1 | O-Ring |
| 3 | 104-0790 | 1 | Bushing |
| 4 | 46-6560 | 1 | Bushing |
| 5 | 138-7384 | 1 | Tube-Drop |
| 6 | 104-5228 | 1 | Fitting-Elbow, 90 DEG |
| 7 | 139-6333 | 1 | Fitting-Plug |
| 7:1 | 237-81 | 1 | O-Ring |
| 8 | 105-3921 | 1 | Fitting-Plug |
| 8:1 | 237-146 | 1 | O-Ring |

# Platform, Steering and Console Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 138-0300SP | 1 | Platform-Stamped |
| 2 | 139-0857 | 1 | Column-Steering, Tilt |
| 3 | 3274-7 | 4 | Screw-HSH |
| 4 | 104-8301 | 6 | Nut-HF, NI |
| 5 | 107069 | 4 | Clip |
| 6 | 99-6810 | 4 | Screw-HHF |
| 7 | 138-7494 | 1 | Cover-Steering |
| 8 | 93-5429 | 1 | Collar-Foam |
| 9 | 98-1471 | 1 | Wheel-Steering |
| 9:1 | 98-1468 | 1 | Cover-Wheel, Steering |
| 10 | 98-1459 | 1 | Decal |
| 11 | 3256-27 | 1 | Washer-Flat |
| 12 | 3296-33 | 1 | Nut-Lock, NI |
| 13 | 3256-40 | 4 | Washer-Flat |
| 14 | 324-12 | 2 | Screw-HH |
| 15 | 105-2409 | 4 | Screw-HSH |
| 16 | 114-8417 | 6 | Nut-HF, NI |
| 17 | 138-0288 | 1 | Bracket-Down, Tie |
| 18 | 3234-41 | 2 | Screw-HHF |
| 19 | 3232-1 | 2 | Screw-CARR |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 20 | 144-0528 | 1 | Plate-Firewall, Lower |
| 20:2 | 132-1316 | 2 | Decal-Danger, Belt |
| 21 | 125-4287 | 2 | Screw-HHF |
| 22 | 3234-34 | 2 | Screw-HHF |
| 24 | 3232-5 | 2 | Screw-CARR |
| 25 | 139-0858 | 1 | Tread-Foot, Main |
| 26 | 139-0859 | 1 | Tread-Foot, Side |
| 27 | 139-0885 | 1 | Tread-Foot, Front RH |
| 28 | 139-0886 | 1 | Tread-Foot, Front LH |
| 29 | 3230-23 | 4 | Bolt-CARR |
| 30 | 104-8300 | 4 | Nut-HF, NI |
| 31 | 105-1217 | 1 | Decal |
| 32 | 144-0473 | 1 | Plug-Harness, Firewall |
| 33 | 139-2166-0P | 1 | Bracket-Hood Support |
| 34 | 104-7201 | 4 | Nut-HF, NI |
| 35 | 140-1460 | 1 | Decal-Traction Pedal |
| 36 | 139-6202 | 1 | Foam-Strip |
| 37 | 130-8439 | 1 | Plug-Dome |
| 38 | 139-6207 | 1 | Foam-Strip |

# Steering Column Assembly No. 139-0857

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 110-6462 | 1 | Bellows-Rubber |
| 2 | 110-6463 | 1 | Cylinder Service Kit |
| 2:1 | | 1 | Cylinder-Gas ● |
| 2:2 | | 1 | Block-Pedal ● |
| 2:3 | | 2 | Bolt ● |
| 2:4 | | 1 | Pin ● |
| 2:5 | | 2 | Washer-Lock ● |
| 3 | 136-4385 | 1 | Pedal Service Kit |
| 3:1 | | 1 | Pedal ● |
| 3:2 | | 1 | Pin ● |
| 3:3 | | 1 | Spring ● |
| 4 | 120-6256 | 1 | Universal Joint Kit |

● Not serviced separately

# Traction Pedal Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 138-7477-01 | 1 | Bracket-Pedal, Traction |
| 2 | 256-236 | 2 | Bearing-Mount, Flange |
| 3 | 138-4594 | 1 | Pedal-Traction |
| 4 | 117-9507 | 1 | Pedal-Accelerator |
| 5 | 32121-45 | 1 | Pin-Spring |
| 6 | 3230-23 | 12 | Bolt-CARR |
| 7 | 104-8300 | 12 | Nut-HF, NI |
| 8 | 138-7446-01 | 1 | Bracket-Cable, Traction |
| 9 | 93-2092 | 1 | Clamp-Cable |
| 10 | 3274-10 | 2 | Screw-HSH |
| 11 | 104-8301 | 6 | Nut-HF, NI |
| 12 | 117-5199 | 1 | Hub-Pedal, Traction |
| 13 | 66-8010 | 1 | Spacer |
| 14 | 2411-41 | 2 | Rod End-Ball Joint |
| 15 | 32121-6 | 1 | Pin-Roll, Slotted |
| 16 | 33093-00 | 2 | Washer-Flat |
| 17 | 3256-22 | 2 | Washer-Flat |
| 18 | 321-9 | 2 | Screw-HH |
| 19 | 3296-42 | 2 | Nut-Lock, NI |
| 20 | 137-2601 | 2 | Washer |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 21 | 137-2568 | 1 | Traction-Cable |
| 22 | 74-9100 | 1 | Pad-Pedal, Forward |
| 23 | 74-9110 | 1 | Pad-Pedal, Reverse |
| 24 | 3231-22 | 4 | Screw-CARR |
| 25 | 130-9691 | 1 | Spacer |
| 26 | 139-6221 | 1 | Seat Box ASM |
| 26:2 | 139-6215 | 1 | Decal-Warning |
| 27 | 115-8240 | 1 | Screw-Elevator |
| 28 | 3218-2 | 2 | Nut-Hex Jam |
| 29 | 138-7422-0P | 2 | Strip-Seat Mount |
| 30 | 107-1865 | 2 | R-Clamp |
| 31 | 104-7050 | 1 | Tube-Manual |
| 32 | 104-7048 | 1 | Cap-Housing |
| 33 | 1-807512 | 2 | Bolt-CARR |
| 34 | 104-7201 | 2 | Nut-HF, NI |
| 35 | 107-3154 | 4 | Nut-Push |
| 36 | 106-9206 | 2 | Decal-Torque, Wheel |
| 39 | 133-8062 | 1 | Decal-Arrestor, Spark |
| 42 | 104-8310 | 2 | Ring-Retaining |

# Control Console Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 133-6406-03 | 1 | Panel |
| 2 | 132-9751 | 1 | Tdm 2001 |
| 3 | 108-7605 | 1 | Cover-RH |
| 4 | 108-7604 | 1 | Cover-LH |
| 5 | 108-7616 | 1 | Panel-Access |
| 6 | 74-5950 | 2 | Latch-Swell |
| 7 | 131-9637 | 1 | Armrest-Quick Find |
| 8 | 3250-22 | 1 | Screw-PPH |
| 9 | 3296-12 | 1 | Nut-Lock, NI |
| 10 | 32144-112 | 10 | Screw-HWH |
| 11 | 104-8300 | 2 | Nut-HF, NI |
| 12 | 3231-22 | 2 | Screw-CARR |
| 13 | 104-8301 | 2 | Nut-HF, NI |
| 14 | 100-1535 | 2 | Switch-Rocker, (On)-Off-(On) |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 15 | 93-9999 | 1 | Switch-PTO |
| 17 | 121-5159 | 1 | Ignition Switch ASM |
| 17:2 | 121-5160 | 1 | Nut-Hex |
| 17:3 | 121-5161 | 1 | Nut-Face |
| 17:4 | 121-5162 | 1 | Set-Key, Ignition |
| 19 | 137-2511 | 1 | Cover-Throttle, Switch |
| 20 | 3296-2 | 2 | Nut-Lock, NI |
| 21 | 1-807533 | 2 | Bolt-CARR |
| 22 | 136-9678 | 1 | Switch-Pushbutton |
| 23 | 138-4548-03 | 1 | Plate-Spacer, Console Pad |
| 25 | 138-7471 | 1 | Decal-Console |
| 26 | 138-7472 | 1 | Decal-Throttle |
| 28 | 99-7420 | 2 | Plug-Hole |
| 30 | 107-3154 | 2 | Nut-Push |
| 32 | 140-3126 | 1 | Decal-Fuse |

# Hood Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 138-7330SP | 1 | Hood |
| 1:1 | | 1 | Hood ASM ■ |
| 1:1:2 | 62-7400 | 2 | Decal-Toro Logo |
| 1:2 | 139-6225 | 1 | Tape-Heat, Hood Front ● |
| 1:3 | 139-6226 | 1 | Tape-Heat, Hood Rear ● |
| 1:4 | 139-6227 | 1 | Tape-Heat, Hood Side ● |
| 2 | 138-7331-03 | 1 | Support-Hood |
| 3 | 138-7474-03 | 1 | Screen-Cooler |
| 4 | 283-68 | 2 | Pin-Clevis |
| 5 | 3290-467 | 2 | Pin-Hair |
| 6 | 117-2382 | 24 | Plug-Plastic |
| 7 | 139-6152 | 2 | Decal-Identification |
| 8 | 110-8859 | 2 | Decal |
| 9 | 114439 | 10 | Rivet-Blind |
| 10 | 139-0855 | 2 | Screw-Countersunk, Oval |
| 11 | 3256-2 | 4 | Washer-Flat |
| 12 | 3296-56 | 2 | Nut-Lock, NI |
| 16 | 139-6218 | 1 | Decal-Service, Gm3300 |

● Not illustrated

■ Not serviced separately

# Hydraulic PTO Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 138-0305 | 1 | Variable Piston Pump ASM |
| 2 | 139-6257 | 1 | Pulley-3/3V |
| 3 | 139-6258 | 1 | Stubshaft-3/3V |
| 4 | 139-6165 | 1 | Clutch |
| 5 | 139-6259 | 1 | Belt-3/3V |
| 6 | 138-0690 | 8 | Screw-HH |
| 7 | 1-803022 | 2 | Screw-Set |
| 8 | 100-6116 | 2 | Screw-HHF |
| 9 | 99-5107 | 2 | Nut-Lock |
| 10 | 94-3645 | 1 | Key |
| 11 | 139-6238 | 1 | Washer |
| 12 | 1-603610 | 2 | Washer-Spring |
| 13 | 109-9761 | 1 | Screw-HH |
| 14 | 3256-23 | 2 | Washer-Plain |
| 15 | 322-6 | 2 | Screw-HH |
| 16 | 1-807259 | 1 | Key |
| 17 | 139-6278 | 1 | Strap-Clutch Stop |
| 18 | 65-9820 | 2 | Spacer |
| 19 | 104-8300 | 3 | Nut-HF, NI |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 20 | 144-0521SP | 1 | Driveshaft ASM |
| 21 | 144-0452 | 6 | Screw-Hex Socket |
| 22 | 140-3091 | 1 | Idler Pivot ASM |
| 23 | 3290-378 | 2 | Tie-Cable |
| 24 | 131-8591 | 2 | Screw-HSH |
| 26 | 140-6179 | 1 | Idler Arm ASM |
| 26:2 | 93-4510 | 2 | Bushing-Caster |
| 27 | 32120-84 | 1 | Ring-Snap, External |
| 28 | 140-3102 | 1 | Spring-Torsion |
| 29 | 140-3101 | 1 | Pulley-Flat |
| 30 | 108-3742 | 1 | Screw-HHF |
| 31 | 104-8301 | 5 | Nut-HF, NI |
| 32 | 112-3977 | 1 | Bolt-Shoulder |
| 33 | 302-40 | 1 | Fitting-Grease, 90 DEG |
| 34 | 3234-42 | 3 | Screw-HHF |
| 35 | 139-6239 | 1 | Washer |
| 38 | 80-6990 | 2 | Washer-Hardened |
| 39 | 32128-36 | 2 | Nut-HF |
| 40 | 144-0532-0P | 1 | Strip-Steel, Spring |

# Variable Piston Pump Assembly No. 138-0305

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 140-3111 | 1 | Plate-Swash |
| 2 | 75-0400 | 1 | Plate-Thrust |
| 3 | 110-6483 | 2 | Bearing Kit |
| 4 | 110-6471 | 1 | Seal-Lip |
| 5 | 95-4400 | 1 | Washer-Backup |
| 6 | 131-8616 | 2 | Ring-Retaining |
| 7 | 140-3113 | 1 | Shaft |
| 8 | 110-6472 | 1 | Cylinder Block Kit ASM |
| 9 | 140-3114 | 1 | Plate-Valve, CW |
| 10 | 131-3800 | 1 | Pin-Slotted |
| 11 | 110-6486 | 1 | Plug-Relief, Charge |
| 11:1 | 28-3570 | 1 | O-Ring |
| 12 | 140-3122 | 1 | Coupling |
| 13 | 140-3115 | 1 | Shim Kit |
| 14 | 110-6474 | 1 | Spring |
| 15 | 110-6475 | 1 | Poppet |
| 16 | 115-8087 | 1 | Cap-End |
| 17 | 110-6476 | 1 | Gasket-Cap, End |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 18 | 75-0500 | 1 | Bearing-Needle |
| 19 | 110-6489 | 4 | Screw |
| 20 | 94-9415 | 2 | Plug ASM |
| 20:1 | | 1 | O-Ring ■ |
| 21 | 107-4364 | 1 | Bypass Valve ASM |
| 21:1 | 25-2630 | 1 | Ring-Back Up |
| 21:2 | 110-6498 | 1 | O-Ring |
| 22 | 140-3116 | 2 | Spring |
| 23 | 110-6492 | 1 | Spool-Loop, Flush |
| 24 | 110-6493 | 1 | Pivot-Return, Neutral |
| 25 | 125-5280 | 2 | Ring-Retaining |
| 26 | 75-0460 | 1 | Bearing-Ball |
| 27 | 140-3117 | 1 | Spring-Neutral Return |
| 28 | 110-6496 | 1 | Nut-Seal |
| 29 | 110-6497 | 1 | Neutral Return Arm ASM |
| 29:1 | 110-6494 | 1 | Bearing-Cam |
| 29:2 | 110-3056 | 1 | Ring-Retaining |
| 30 | 69-3130 | 2 | Plug |

● Not illustrated

■ Not serviced separately

# Variable Piston Pump Assembly No. 138-0305 (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 31 | 112-0158 | 2 | Pin |
| 32 | 110-6477 | 2 | Valve-Relief |
| 32:1 | 75-0240 | 1 | O-Ring ● |
| 32:2 | 84-0560 | 1 | O-Ring ● |
| 33 | 110-6499 | 1 | Trunnion Cover ASM |
| 33:1 | 110-6478 | 1 | Seal-Lip |
| 34 | 84-0430 | 2 | O-Ring |
| 35 | 112-0151 | 8 | Screw |
| 36 | 84-0440 | 1 | Cover-Trunnion |
| 37 | 110-6481 | 1 | Seal Kit ● |
| 37:1 | 110-6471 | 1 | Seal-Lip |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 37:2 | 28-3570 | 1 | O-Ring |
| 37:3 | 110-6476 | 1 | Gasket-Cap, End |
| 37:4 | 131-8631 | 2 | O-Ring |
| 37:5 | 25-2630 | 1 | Ring-Back Up |
| 37:6 | 110-6498 | 1 | O-Ring |
| 37:7 | 75-0240 | 2 | O-Ring |
| 37:8 | 84-0560 | 2 | O-Ring |
| 37:9 | 110-6478 | 1 | Seal-Lip |
| 37:10 | 84-0430 | 2 | O-Ring |
| 37:11 | 131-8614 | 2 | O-Ring |

● Not illustrated

■ Not serviced separately

# Driveshaft Assembly No. 144-0521SP

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | | 1 | Driveshaft ASM ● |
| 1:1 | | 1 | Shaft-Drive, Jdl ● |
| 1:1:7 | | 1 | Yoke-Splined W/Cross Joint ● |
| 1:1:7:1 | 144-0550 | 1 | Bearing-Cross Joint |
| 1:1:8 | 144-0550 | 1 | Bearing-Cross Joint |
| 1:2 | 139-6304 | 1 | Decal-Danger, Entanglement |

● Not serviced separately

# Traction Hydraulic Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 139-6195-0P | 1 | Bracket-Cable Support [primed] |
| 2 | 138-6378 | 1 | Lever-Pump |
| 3 | 115-5300 | 1 | Proximity Switch ASM |
| 3:1 | 117-3207 | 2 | Nut-Hex |
| 3:2 | 117-3208 | 2 | Washer-Lock, Internal Tooth |
| 4 | 3234-19 | 1 | Screw-HHF |
| 5 | 140-6248 | 1 | Damper |
| 6 | 3218-2 | 1 | Nut-Hex Jam |
| 7 | 322-10 | 1 | Screw-HH |
| 8 | 104-8300 | 1 | Nut-HF, NI |
| 9 | 340-9 | 2 | Fitting-STR |
| 9:1 | 237-58 | 1 | O-Ring |
| 9:2 | 237-81 | 1 | O-Ring |
| 10 | 340-14 | 1 | Fitting-HYD, 45 DEG |
| 10:1 | 237-65 | 1 | O-Ring |
| 10:2 | 237-80 | 1 | O-Ring |
| 11 | 340-16 | 2 | Fitting-HYD, 90 DEG |
| 11:1 | 237-80 | 1 | O-Ring |
| 11:2 | 237-58 | 1 | O-Ring |
| 12 | 340-17 | 1 | Fitting-Elbow, 90 DEG |
| 12:1 | 237-65 | 1 | O-Ring |
| 12:2 | 237-80 | 1 | O-Ring |
| 13 | 138-0340 | 1 | Hydraulic Tube ASM |
| 13:1 | 237-58 | 1 | O-Ring |
| 14 | 138-0341 | 1 | Hydraulic Tube ASM |
| 16 | 138-0345 | 1 | Hydraulic Tube ASM |
| 17 | 138-0346 | 1 | Hydraulic Tube ASM |
| 18 | 138-0339 | 1 | Hydraulic Tube ASM |
| 19 | 100-4240 | 1 | Fitting-STR |
| 19:1 | 237-30 | 1 | O-Ring |
| 19:2 | 237-81 | 1 | O-Ring |
| 20 | 3234-42 | 2 | Screw-HHF |
| 21 | 32151-72 | 1 | Ring-Retaining |

# Hydraulic Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 237-161 | 1 | O-Ring |
| 2 | 138-0321 | 1 | Pump-Gear |
| 3 | 3274-1 | 2 | Screw-HSH |
| 4 | 139-0854 | 2 | Cylinder-Hydraulic |
| 4:1 | 140-3110 | 1 | Kit-Seal ● |
| 5 | 340-6 | 1 | Fitting-Straight |
| 5:1 | 237-30 | 1 | O-Ring |
| 5:2 | 237-80 | 1 | O-Ring |
| 6 | 99-3017 | 1 | Fitting |
| 6:1 | 237-81 | 1 | O-Ring |
| 7 | 340-4 | 3 | Fitting-Straight |
| 7:1 | 237-30 | 1 | O-Ring |
| 7:2 | 237-79 | 1 | O-Ring |
| 8 | 114-8119 | 1 | Steering Valve ASM |
| 9 | 340-2 | 4 | Fitting-Straight |
| 9:1 | 237-22 | 1 | O-Ring |
| 9:2 | 237-42 | 1 | O-Ring |
| 10 | 340-77 | 2 | Fitting-Elbow, 90 DEG |

● Not illustrated

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 10:1 | 237-22 | 1 | O-Ring |
| 10:2 | 237-42 | 1 | O-Ring |
| 11 | 340-132 | 4 | Fitting-Elbow, 90 DEG |
| 11:1 | 237-78 | 1 | O-Ring |
| 11:2 | 237-21 | 1 | O-Ring |
| 12 | 340-115 | 1 | Fitting-Tee |
| 12:1 | 237-22 | 2 | O-Ring |
| 13 | 340-151 | 1 | Fitting-Tee |
| 13:1 | 237-21 | 2 | O-Ring |
| 14 | 106-6774 | 1 | Joint-Ball |
| 15 | 106-6895-03 | 1 | Ball Joint ASM |
| 15:1 | | 1 | Joint-Ball ■ |
| 15:1:1 | 32136-13 | 1 | Nut-SHH |
| 15:1:2 | 106-6896 | 1 | Seal |
| 15:1:3 | 302-5 | 1 | Fitting-Grease |
| 15:1:4 | 3210-7 | 1 | Screw-HH |
| 15:1:5 | 32152-5 | 1 | Nut-Hex |
| 16 | 69-8980 | 1 | Washer |

■ Not serviced separately

# Hydraulic Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 17 | 139-6277 | 1 | Steering Cylinder |
| 17:1 | 140-3120 | 1 | Kit-Seal ● |
| 18 | 3272-12 | 1 | Pin-Cotter |
| 19 | 3220-6 | 2 | Nut-Jam |
| 20 | 32151-104 | 1 | Ring-Retaining, External |
| 21 | 302-5 | 1 | Fitting-Grease |
| 22 | 137-5844 | 1 | Hose ASM |
| 23 | 137-5845 | 1 | Hose ASM |
| 24 | 137-5846 | 1 | Hose ASM |
| 25 | 137-5847 | 1 | Hose ASM |
| 26 | 2412-34 | 1 | Clamp-Hose |
| 27 | 140-3097 | 1 | Hose ASM |
| 28 | 138-0331 | 1 | Hydraulic Tube ASM |
| 29 | 138-0332 | 1 | Hydraulic Tube ASM |
| 30 | 138-7448 | 1 | Hydraulic Tube ASM |
| 31 | 138-7447 | 1 | Hydraulic Tube ASM |
| 32 | 138-0333 | 1 | Hydraulic Tube ASM |
| 32:1 | 237-22 | 1 | O-Ring |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 33 | 138-0336 | 1 | Hydraulic Tube ASM |
| 33:1 | 237-22 | 1 | O-Ring |
| 34 | 115-0383 | 1 | Hose ASM |
| 35 | 137-2584 | 1 | Hose ASM |
| 36 | 56-7972 | 8 | Clamp-Tube |
| 37 | 56-7973 | 4 | Clamp-Tube |
| 38 | 56-7970 | 2 | Clamp-Tube |
| 39 | 104-8300 | 7 | Nut-HF, NI |
| 40 | 328-23 | 2 | Screw-HH |
| 41 | HDW02059 | 2 | Nut-Hex |
| 42 | 138-0343 | 1 | Hydraulic Tube ASM |
| 42:1 | 237-22 | 1 | O-Ring |
| 43 | 138-0344 | 1 | Hydraulic Tube ASM |
| 43:1 | 237-22 | 1 | O-Ring |
| 44 | 340-70 | 2 | Nut-Lock |
| 45 | 3230-5 | 7 | Bolt-CARR |
| 46 | 340-98 | 1 | Fitting-Elbow, 90 DEG |
| 46:1 | 237-79 | 1 | O-Ring |

● Not illustrated

■ Not serviced separately

# Hydraulic Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 46:2 | 237-30 | 1 | O-Ring |
| 47 | 126-7888 | 4 | Washer-Nylon |
| 48 | 139-6293 | 2 | Washer |
| 49 | 119-1418 | 4 | Plate-Clamp, Short |
| 50 | 119-1419 | 8 | Plate-Clamp |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 51 | 138-0342 | 1 | Hydraulic Tube ASM |
| 52 | 340-87 | 1 | Fitting-Elbow, 45 DEG |
| 52:1 | 237-22 | 1 | O-Ring |
| 52:2 | 237-42 | 1 | O-Ring |
| 53 | 3290-378 | 2 | Tie-Cable |

● Not illustrated

■ Not serviced separately

# Gear Pump Assembly No. 138-0321

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 139-6299 | 1 | Kit-Seal |
| 1:9 | | 1 | Seal ● |
| 1:10 | | 1 | Seal-Standard ● |
| 1:11 | | 1 | Seal-Square ● |
| 1:12 | | 1 | Seal-Shaft ● |
| 1:14 | | 1 | Anti Extrusion ● |

● Not serviced separately

# Steering Valve Assembly No. 114-8119

# Steering Valve Assembly No. 114-8119 (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 106-6716 | 1 | Seal Kit |

# Electrical Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 122-1656 | 1 | Harness-Wire, Main Gm33X0 |
| 1:8 | 218-578 | 4 | Fuse-Blade, 10 Amp |
| 1:9 | 109355 | 3 | Fuse-Blade, 15 Amp |
| 1:13 | 32180-019 | 2 | Cover-Fuse, Single |
| 1:16 | 108-9493 | 1 | Diode-Tvs |
| 1:17 | 32180-089 | 1 | Cap-Plug, 3 Way |
| 1:18 | 32180-043 | 1 | Resistor-120 Ohm |
| 1:19 | 32180-156 | 2 | Cap-Plug, 6 Way |
| 1:20 | 104-4022 | 1 | Resistor-75 Ohm |
| 2 | 106-5187 | 1 | Battery, 525 CCA W/O Electrolyte |
| 3 | 138-6335 | 1 | Retainer-Battery |
| 4 | 3231-29 | 1 | Screw-CARR |
| 5 | 104-8301 | 1 | Nut-HF, NI |
| 6 | 138-7467-0P | 1 | Bracket-Electrical |
| 7 | 99-7430 | 3 | Relay-Mini |
| 8 | 99-7435 | 2 | Relay |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 9 | 42862 | 1 | Block-Terminal, Ground |
| 10 | 99-3441 | 1 | Harness-Wire, Fusible Link |
| 11 | 3256-21 | 1 | Washer-Flat |
| 12 | 125-8067 | 1 | Plug-Plastic |
| 13 | 42863 | 1 | Strip-Jumper |
| 14 | 100-5552 | 1 | Harness-Wire |
| 15 | 122-1276 | 1 | Negative Battery Cable ASM |
| 15:1 | 112-9921 | 1 | Bolt ASM ● |
| 15:1:1 | 32180-107 | 1 | Bolt-Clamp, Battery ● |
| 15:1:2 | 32180-108 | 2 | Nut-Clamp, Battery ● |
| 16 | 140-9010 | 1 | Battery Cover ASM |
| 16:2 | 140-9033 | 1 | Knob-Stud |
| 16:3 | 32115-15 | 1 | Nut-Push |
| 16:4 | 3256-22 | 1 | Washer-Flat |
| 17 | 117-2382 | 10 | Plug-Plastic |
| 18 | 122-1275 | 1 | Positive Battery Cable ASM |
| 18:3 | 112-9921 | 1 | Bolt ASM ● |

● Not illustrated

# Electrical Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 18:3:1 | 32180-107 | 1 | Bolt-Clamp, Battery ● |
| 18:3:2 | 32180-108 | 2 | Nut-Clamp, Battery ● |
| 19 | 33095-00 | 1 | Washer-Flat |
| 20 | 33115-020 | 1 | Screw-HH |
| 22 | 3253-4 | 1 | Washer-Lock |
| 23 | 33014-00 | 1 | Nut-Hex |
| 24 | 3290-378 | 2 | Tie-Cable |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 25 | 33003-00 | 1 | Nut-HF |
| 26 | 3290-379 | 1 | Tie-Cable |
| 27 | 32180-149 | 1 | Tie-Button Head |
| 28 | 3234-29 | 1 | Screw-HHF |
| 29 | 120-9683 | 1 | Washer-Plain |
| 30 | 104-8300 | 1 | Nut-HF, NI |

● Not illustrated

# Cylinder Block Assembly

# Cylinder Block Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 127-4717 | 1 | Cylinder Block ASM |
| 4 | 125-6980 | 1 | Plug |
| 5 | 125-7170 | 1 | Plug |
| 6 | 125-7007 | 8 | Bolt |
| 9 | 125-7108 | 1 | Bushing |
| 10 | 140-7182 | 6 | Plug 30 |
| 11 | 125-6969 | 1 | Plug |
| 12 | 125-6973 | 2 | Plug |
| 13 | 125-6973 | 1 | Plug |
| 14 | 125-7237 | 1 | Plug |
| 24 | 125-7010 | 2 | Metal-Thrust |
| 27 | 125-7006 | 14 | Bolt |
| 28 | 127-4716 | 1 | Head Gasket ASM |
| 29 | 125-6981 | 4 | Metal-Main |
| 32 | 125-7009 | 4 | Metal-Main (0.25) |
| 35 | 125-7011 | 1 | Metal-Thrust (0.25) |

# Gear Housing Assembly

# Gear Housing Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 127-3023 | 1 | Case-Gear |
| 2 | 125-6995 | 2 | Pin |
| 3 | 125-6972 | 1 | Cover-Filler |
| 4 | 125-7107 | 2 | Pipe |
| 5 | 125-6909 | 2 | O-Ring |
| 6 | 127-2973 | 1 | O-Ring |
| 7 | 125-7197 | 1 | O-Ring |
| 8 | 125-7214 | 3 | Bolt |
| 9 | 127-3024 | 1 | Gearcase Cover ASM |
| 11 | 125-6944 | 1 | Seal-Oil |
| 12 | 125-6977 | 1 | Cover |
| 13 | 125-7174 | 1 | Washer-Seal |
| 14 | 125-7214 | 4 | Bolt |
| 15 | 125-7217 | 1 | Bolt |
| 16 | 125-7218 | 7 | Bolt |
| 17 | 125-7222 | 3 | Bolt |
| 18 | 125-7224 | 4 | Bolt |

# Flywheel Housing and Oil Sump Assembly

# Flywheel Housing and Oil Sump Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 125-6995 | 2 | Pin |
| 2 | 127-3025 | 1 | Housing-Flywheel |
| 3 | 125-6910 | 1 | Cap |
| 4 | 125-7226 | 6 | Bolt |
| 5 | 125-7227 | 4 | Bolt |
| 6 | 127-3756 | 1 | Spacer |
| 7 | 135-4010 | 1 | Oil Pan ASM |
| 8 | 125-6912 | 1 | Plug-Drain |
| 10 | 125-7177 | 1 | Washer-Seal |
| 11 | 125-7214 | 4 | Bolt |
| 12 | 125-7215 | 2 | Bolt |
| 13 | 125-7219 | 16 | Bolt |
| 14 | 125-7220 | 4 | Bolt |
| 15 | 125-6995 | 2 | Pin |
| 16 | 140-7173 | 1 | Oil Seal Case ASM |
| 18 | 140-7174 | 1 | Seal-Oil |
| 19 | 125-7045 | 6 | Bolt |
| 20 | 125-7217 | 3 | Bolt |
| 21 | 127-3062 | 1 | Sensor-Rev, Flywheel |
| 22 | 127-3184 | 1 | Bolt |

# Cylinder Head and Cover Assembly

# Cylinder Head and Cover Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 127-3757 | 1 | Shaft ASM |
| 2 | 127-3758 | 1 | Shaft |
| 4 | 127-2974 | 2 | Support |
| 5 | 127-2975 | 2 | Support |
| 6 | 135-4012 | 3 | Bolt,Stud |
| 7 | 127-2995 | 3 | Spring |
| 8 | 127-2989 | 6 | Arm-Rocker |
| 9 | 125-7013 | 6 | Screw-Adjust, Valve |
| 11 | 125-7014 | 6 | Nut |
| 12 | 127-2996 | 6 | Cap-Valve |
| 13 | 139-6014 | 1 | Cylinder Head ASM |
| 19 | 125-7240 | 2 | Plug |
| 20 | 127-2990 | 3 | Valve |
| 21 | 127-4710 | 3 | Valve |
| 22 | 127-3012 | 6 | Spring |
| 23 | 127-3013 | 6 | Retainer-Spring |
| 24 | 127-2986 | 3 | Seal-Stem, Valve |
| 25 | 127-3027 | 3 | Seal-Stem, Valve |
| 26 | 127-3186 | 6 | Pin-Cotter |
| 28 | 127-3021 | 3 | Gasket-Injector |
| 29 | 127-3028 | 3 | Retainer-Injector |
| 30 | 127-2980 | 3 | Washer-Injector |
| 31 | 125-7184 | 2 | Pin-Spring |
| 32 | 125-7215 | 2 | Bolt |
| 33 | 125-7217 | 3 | Bolt |
| 34 | 125-7220 | 6 | Bolt |
| 35 | 125-6972 | 1 | Cover-Filler |
| 36 | 127-4719 | 1 | Cylinder Head Cover ASM |
| 37 | 127-2988 | 1 | Plate |
| 38 | 125-7012 | 1 | Baffle |
| 39 | 125-6959 | 1 | Diaphragm |
| 40 | 125-6960 | 1 | Plate |
| 41 | 125-6961 | 1 | Plate-Breather |
| 42 | 125-6962 | 1 | Spring-Diaphragm |
| 44 | 127-3762 | 1 | Gasket-Cover, Cylinder Head |
| 45 | 127-3026 | 1 | Joint |
| 46 | 127-3029 | 1 | Sensor-Pressure |
| 47 | 127-3032 | 2 | O Ring-Sensor, Pressure |
| 48 | 127-3040 | 1 | Hose ASM |
| 50 | 127-3041 | 2 | Clip-Hose |
| 51 | 125-6913 | 1 | Plug |
| 52 | 125-7186 | 4 | Screw |
| 53 | 125-7186 | 6 | Screw |
| 54 | 127-3184 | 2 | Bolt |
| 55 | 125-6974 | 3 | Knob |
| 56 | 138-7829 | 3 | O-Ring |
| 57 | 125-7197 | 1 | O-Ring |
| 58 | 127-4718 | 1 | Lifter-Engine |
| 59 | 125-7595 | 2 | Bolt |
| 60 | 127-2991 | 3 | Plug-Glow |
| 61 | 127-3768 | 1 | Connector-Plug, Glow |
| 62 | 131-2704 | 1 | Harness-Wire |
| 63 | 127-2979 | 3 | Guide |
| 64 | 127-2997 | 3 | Guide-Valve |

# Suction Manifold Assembly

# Suction Manifold Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 127-4704 | 1 | Pipe |
| 2 | 125-7040 | 2 | Clip-Hose |
| 3 | 127-3769 | 1 | Gasket-Manifold, Intake |
| 4 | 127-4722 | 1 | Intake Manifold ASM |
| 5 | 127-4721 | 1 | Manifold-Intake |
| 6 | 127-3180 | 2 | Stud |
| 7 | 137-5167 | 1 | Sensor-Temperature, Air |
| 8 | 125-7220 | 3 | Bolt |
| 9 | 127-3034 | 1 | Gasket-Collector |
| 10 | 127-4725 | 1 | Intake Collector ASM |
| 11 | 127-4701 | 1 | Stud |
| 12 | 127-3030 | 1 | Sensor-Temp, Air |
| 13 | 127-3033 | 1 | O-Ring |
| 14 | 127-4724 | 1 | Collector-Intake |
| 15 | 127-3080 | 1 | Joint-Hose |
| 16 | 127-3081 | 1 | Joint-Hose |
| 17 | 127-3166 | 2 | Washer-Seal |
| 18 | 127-3181 | 2 | Stud |
| 19 | 127-4775 | 1 | Nut |
| 20 | 125-7220 | 1 | Bolt |
| 21 | 127-3178 | 1 | Bolt |
| 22 | 127-3182 | 3 | Stud |
| 23 | 125-7229 | 3 | Nut |
| 24 | 127-3035 | 1 | Bend-Inlet |
| 25 | 127-3036 | 1 | Body-Throttle |
| 26 | 127-3037 | 2 | Gasket-Throttle |
| 27 | 125-7209 | 2 | Bolt |
| 28 | 125-7211 | 4 | Bolt |
| 29 | 127-3177 | 2 | Bolt |

# Exhaust Manifold Assembly

# Exhaust Manifold Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 127-4726 | 1 | Manifold-Exhaust |
| 2 | 127-3775 | 1 | Gasket-Manifold, Exhaust |
| 3 | 127-2984 | 4 | Stud |
| 4 | 135-4013 | 1 | Bolt |
| 5 | 135-4014 | 3 | Bolt |
| 6 | 127-4756 | 2 | Stud |
| 7 | 127-4729 | 1 | Sensor-Temp, Exhaust |
| 8 | 127-3087 | 1 | Band-Clip |
| 9 | 125-7230 | 2 | Nut |
| 10 | 127-3038 | 1 | Exhaust Pipe ASM |
| 11 | 127-3173 | 2 | Clamp |
| 12 | 127-3039 | 1 | Bolt-Joint, Pipe |
| 13 | 127-3174 | 2 | Gasket |
| 14 | 125-7206 | 2 | Bolt |
| 15 | 127-3042 | 1 | Cooler-E G R |
| 16 | 127-3043 | 2 | Gasket-Cooler, E G R |
| 17 | 133-6715 | 2 | Bolt |
| 18 | 127-3022 | 1 | Bolt-Flange |
| 19 | 127-3048 | 1 | E G R Pipe ASM |
| 20 | 127-3049 | 1 | Pipe-Out, E G R |
| 21 | 125-7043 | 2 | Stud |
| 22 | 125-7220 | 2 | Bolt |
| 23 | 137-5168 | 1 | Sensor-Gas Temp, E G R |
| 24 | 127-3780 | 1 | E G R Pipe ASM |
| 25 | 127-3016 | 1 | Gasket |
| 26 | 125-7215 | 2 | Bolt |
| 27 | 125-7229 | 2 | Nut |
| 28 | 127-3781 | 1 | Valve-E G R |
| 29 | 127-3050 | 1 | Gasket-Intake Valve, E G R |
| 30 | 127-3051 | 1 | Gasket-Out Valve, E G R |
| 31 | 125-7229 | 2 | Nut |

# Diesel Particulate Filter Assembly

# Diesel Particulate Filter Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 127-2987 | 1 | Gasket-Silencer |
| 2 | 127-4738 | 1 | Stay-D P F |
| 3 | 127-4739 | 1 | Stay-D P F |
| 4 | 127-4740 | 1 | Stay-D P F |
| 5 | 127-4741 | 1 | Stay-D P F |
| 7 | 127-4764 | 1 | Sensor-Temp, Exhaust |
| 8 | 127-3112 | 1 | Sensor-Temp, Exhaust |
| 9 | 127-4759 | 1 | D P F ASM |
| 10 | 127-4732 | 1 | Case-D O C |
| 12 | 127-4734 | 1 | Case-Filter, Soot |
| 14 | 127-3786 | 1 | Silencer-D P F |
| 15 | 127-3787 | 2 | Gasket-D P F |
| 16 | 127-3055 | 16 | Bolt |
| 17 | 127-3788 | 1 | Lifter-D P F |
| 18 | 127-3789 | 5 | Stiffener-D P F, A |
| 19 | 127-4735 | 1 | Stiffener-D P F, B |
| 20 | 127-3792 | 1 | Stiffener-D P F, C |
| 21 | 127-4736 | 1 | Stiffener-D P F, C |
| 22 | 125-7213 | 2 | Bolt |
| 23 | 125-7229 | 16 | Nut |
| 25 | 127-3039 | 2 | Bolt-Joint, Pipe |
| 26 | 127-3056 | 4 | Gasket-Sensor |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 27 | 127-4744 | 1 | Sensor Pipe ASM |
| 28 | 127-4745 | 1 | Sensor Pipe ASM |
| 30 | 140-7175 | 1 | Hose-Pressure |
| 31 | 127-3057 | 2 | Clip-Hose |
| 33 | 127-3058 | 2 | Clip-Hose |
| 34 | 138-8257 | 1 | Exhaust Press Hose ASM |
| 35 | 127-3060 | 1 | Sensor-Pressure |
| 36 | 127-4750 | 1 | Bracket-Sensor |
| 37 | 125-7208 | 2 | Bolt |
| 38 | 125-7595 | 2 | Bolt |
| 39 | 127-3087 | 1 | Band-Clip |
| 40 | 127-3124 | 1 | Band |
| 41 | 127-3088 | 2 | Clip-Connnector |
| 42 | 125-7214 | 2 | Bolt |
| 43 | 125-7214 | 3 | Bolt |
| 44 | 125-7595 | 4 | Bolt |
| 45 | 127-3179 | 2 | Bolt |
| 46 | 127-3179 | 2 | Bolt |
| 47 | 127-3179 | 2 | Bolt |
| 48 | 125-7229 | 2 | Nut |
| 49 | 125-7230 | 4 | Nut |

# Camshaft and Driving Gear Assembly

# Camshaft and Driving Gear Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 125-7016 | 6 | Tappet |
| 2 | 125-7017 | 6 | Rod-Push |
| 3 | 127-3797 | 1 | Camshaft ASM |
| 4 | 125-7008 | 1 | Metal-Thrust |
| 6 | 127-3052 | 1 | Gear-Camshaft |
| 7 | 125-7185 | 1 | Key |
| 8 | 127-3053 | 1 | Pulser-Camshaft |
| 9 | 125-7205 | 3 | Bolt |
| 10 | 125-7213 | 2 | Bolt |
| 11 | 127-3054 | 1 | Sensor-Rev, Gear |
| 12 | 127-3184 | 1 | Bolt |
| 13 | 127-3063 | 1 | Shaft-Idle, Gear A |
| 14 | 127-3066 | 1 | Idle Gear A ASM |
| 17 | 125-7219 | 3 | Bolt |
| 18 | 127-3070 | 1 | Gear-Pump, Supply |
| 19 | 127-3167 | 1 | Washer-Spring |
| 20 | 127-3185 | 1 | Nut-Lock |
| 21 | 127-3064 | 1 | Shaft-Idle, Gear B |
| 22 | 127-3067 | 1 | Idle Gear B ASM |
| 25 | 127-3068 | 1 | Plate-Idle, Shaft |
| 26 | 127-3069 | 1 | Gasket-Idle, Shaft B |
| 27 | 125-7218 | 2 | Bolt |
| 28 | 125-6926 | 1 | Bush |
| 29 | 127-3065 | 1 | Bushing |

# Crankshaft and Piston Assembly

# Crankshaft and Piston Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 127-3800 | 1 | Crankshaft ASM |
| 2 | 125-6995 | 1 | Pin |
| 4 | 125-6937 | 1 | Gear |
| 5 | 125-7185 | 1 | Key |
| 7 | 125-7182 | 1 | Pin-Spring |
| 8 | 127-3801 | 1 | Pulley-V |
| 9 | 125-7109 | 1 | Washer |
| 10 | 125-6956 | 1 | Bolt |
| 11 | 125-6951 | 6 | Bolt |
| 12 | 127-3802 | 1 | Flywheel ASM |
| 14 | 125-6943 | 1 | Gear |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 16 | 127-4766 | 3 | Piston ASM |
| 18 | 127-4751 | 3 | Piston Ring ASM |
| 24 | 125-7030 | 3 | Pin |
| 25 | 125-7180 | 6 | Ring |
| 26 | 125-7242 | 3 | Connecting Rod ASM |
| 30 | 125-6955 | 6 | Bolt |
| 31 | 125-7018 | 3 | Pin-Crank |
| 33 | 125-6997 | 3 | Pin-Piston |
| 34 | 125-7019 | 3 | Pin-Crank (.25) |
| 36 | 127-4767 | 3 | Piston ASM (0.25 O S) |
| 38 | 127-4752 | 3 | Ring Set (0.25 O S) |

# Lubrication and Oil System Assembly

# Lubrication and Oil System Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 127-4753 | 1 | Oil Pump ASM |
| 2 | 127-3004 | 1 | Gasket |
| 3 | 125-7232 | 4 | Bolt |
| 4 | 125-7171 | 1 | Plug-Drain |
| 5 | 140-7168 | 1 | Dipstick-Oil |
| 6 | 125-6954 | 1 | Guide-Dipstick |
| 7 | 125-7022 | 1 | Gasket |
| 8 | 135-4017 | 1 | Oil Inlet Pipe ASM |
| 9 | 125-7217 | 2 | Bolt |
| 10 | 135-4018 | 1 | Oil Cooler ASM |
| 11 | 135-4019 | 1 | Packing-Oil Cooler |
| 12 | 135-4020 | 1 | Nut |
| 13 | 135-4021 | 1 | Lo Filter Bracket ASM |
| 14 | 140-7169 | 1 | Filter Bracket ASM |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 16 | 125-7042 | 1 | Stud |
| 17 | 135-4022 | 1 | Collar-Cooler, Oil |
| 18 | 125-7024 | 1 | Gasket |
| 20 | 125-6990 | 1 | Joint |
| 21 | 125-7078 | 1 | Pipe ASM |
| 22 | 125-7162 | 1 | Clip |
| 24 | 125-7191 | 1 | Clamp-Hose |
| 25 | 127-3804 | 1 | Pipe ASM |
| 26 | 125-7162 | 1 | Clip |
| 28 | 127-3805 | 1 | Tube |
| 29 | 125-7191 | 1 | Clamp-Hose |
| 30 | 125-7595 | 3 | Bolt |
| 31 | 125-6918 | 1 | Switch-Oil |
| 32 | 125-7025 | 1 | Filter-Engine, Oil |

# Cooling Water System Assembly

# Cooling Water System Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 140-7176 | 1 | CW Pump ASM |
| 3 | 125-6998 | 1 | Gasket |
| 9 | 127-3017 | 1 | Joint |
| 11 | 125-7001 | 1 | Elbow |
| 13 | 140-7170 | 3 | Screw-Flat |
| 14 | 125-7047 | 1 | Gasket |
| 15 | 125-6986 | 1 | Joint |
| 16 | 125-7048 | 1 | O-Ring |
| 17 | 125-6978 | 1 | Gasket |
| 18 | 125-7192 | 1 | Gasket |
| 19 | 125-7212 | 1 | Bolt |
| 20 | 125-7214 | 3 | Bolt |
| 21 | 125-7219 | 1 | Bolt |
| 22 | 125-7222 | 3 | Bolt |
| 23 | 127-4712 | 1 | V-Pulley |
| 24 | 127-4771 | 1 | V-Belt |
| 25 | 127-4702 | 1 | Fan |
| 26 | 127-3810 | 1 | Spacer |
| 27 | 125-7209 | 4 | Bolt |
| 28 | 125-7029 | 1 | Thermostat |
| 29 | 125-7026 | 1 | Gasket |
| 30 | 140-7171 | 1 | Cover-Thermostat |
| 31 | 125-7110 | 1 | Gasket |
| 32 | 125-7594 | 2 | Bolt |
| 33 | 125-6953 | 1 | Plug |
| 34 | 125-7124 | 1 | Sensor-Thermostat, CW |
| 35 | 125-6979 | 1 | Gasket |
| 36 | 125-7176 | 1 | Washer-Seal |
| 37 | 127-4705 | 1 | Elbow |
| 38 | 127-4757 | 1 | E G R-C Pipe ASM |
| 39 | 127-3020 | 2 | Clip-Hose |
| 42 | 127-3811 | 1 | CW Pipe ASM |
| 43 | 127-3020 | 2 | Clip-Hose |

# Fuel Supply Pump Assembly

# Fuel Supply Pump Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 140-7178 | 1 | Fuel Pump ASM |
| 2 | 131-2103 | 1 | Valve ASM |
| 3 | 131-2105 | 1 | Ring-Sealing |
| 4 | 131-2106 | 1 | O-Ring |
| 5 | 131-2107 | 2 | Bolt |
| 6 | 131-2108 | 1 | Sensor-Temperature |
| 7 | 127-3074 | 1 | O-Ring |
| 8 | 125-7216 | 3 | Bolt |

# Fuel Injection Valve Assembly

# Fuel Injection Valve Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 127-4754 | 3 | Injector ASM |
| 4 | 130-7430 | 3 | Ring-Retaining |
| 6 | 137-5173 | 3 | O-Ring |
| 7 | 127-3812 | 1 | Rail ASM |
| 8 | 131-2709 | 1 | Sensor-Pressure, Rail |
| 9 | 131-2710 | 1 | Valve ASM |
| 10 | 130-7433 | 1 | O-Ring |
| 11 | 125-7215 | 2 | Bolt |
| 12 | 127-3813 | 2 | Retainer |
| 14 | 127-3082 | 1 | Rail In Pipe ASM |
| 16 | 127-3814 | 1 | Injection Pipe ASM |
| 17 | 127-3083 | 1 | Injection Pipe ASM |
| 18 | 127-3084 | 1 | Injection Pipe ASM |
| 19 | 125-7231 | 2 | Nut |

# Fuel Filter Assembly

# Fuel Filter Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 139-4535 | 1 | Filter ASM |
| 2 | 127-3076 | 1 | Fuel/Oil Filter Bracket ASM |
| 3 | 139-6017 | 1 | Filter-Fuel |
| 4 | 125-7216 | 2 | Bolt |
| 5 | 125-7111 | 1 | Lifter |
| 6 | 127-3815 | 1 | Filter Bracket ASM |
| 7 | 125-7215 | 2 | Bolt |
| 8 | 125-7215 | 1 | Bolt |
| 9 | 127-3077 | 1 | Fuel Pipe ASM |
| 12 | 125-7191 | 2 | Clamp-Hose |
| 13 | 127-2981 | 1 | Band |
| 14 | 135-4023 | 1 | Fuel/Oil Return Pipe ASM |
| 16 | 127-3172 | 1 | Clamp-Hose |
| 17 | 127-3078 | 1 | Fuel Pipe ASM |
| 20 | 125-7191 | 2 | Clamp-Hose |
| 21 | 127-3817 | 1 | Fuel Pipe ASM |
| 22 | 127-2950 | 2 | Clip-Hose |
| 25 | 127-3087 | 1 | Band-Clip |
| 26 | 127-3079 | 1 | Fuel Pipe ASM |
| 27 | 127-2950 | 2 | Clip-Hose |

# Starting Motor Assembly

# Starting Motor Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 127-3818 | 1 | Starter ASM |
| 2 | 127-3819 | 1 | Switch ASM |
| 3 | 127-3820 | 1 | Armature ASM |
| 4 | 127-3821 | 1 | Yoke ASM |
| 5 | 127-3822 | 1 | Brush Holder ASM |
| 6 | 127-3823 | 2 | Brush |
| 7 | 127-3824 | 1 | Brush Set |
| 8 | 127-3825 | 4 | Spring |
| 9 | 127-3826 | 1 | Cover ASM |
| 10 | 127-3827 | 1 | Metal |
| 11 | 127-3828 | 3 | Gear |
| 12 | 127-3829 | 1 | Bracket |
| 13 | 127-3830 | 1 | Bracket |
| 14 | 127-3831 | 1 | Gear |
| 15 | 127-3832 | 1 | Bracket |
| 16 | 127-3833 | 1 | Pinion ASM |
| 17 | 127-3834 | 1 | Shaft |
| 18 | 127-3835 | 1 | Washer Set |
| 19 | 127-3836 | 1 | Case ASM |
| 20 | 127-3837 | 1 | Metal-Starter |
| 21 | 127-3838 | 1 | Lever Set |
| 22 | 127-3839 | 1 | Dust Cover ASM |
| 23 | 135-4024 | 2 | Bolt-Through |
| 24 | 125-7225 | 2 | Bolt |

# Generator Assembly

# Generator Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 127-3011 | 1 | Stud |
| 2 | 139-6018 | 1 | Generator |
| 3 | 127-3190 | 1 | Nut |
| 4 | 127-3843 | 1 | Rotor ASM |
| 5 | 127-2983 | 1 | Bearing-Ball |
| 6 | 127-2962 | 1 | Cover |
| 7 | 135-4025 | 1 | Frame ASM |
| 8 | 127-2958 | 1 | Bearing-Ball |
| 9 | 127-2959 | 1 | Plate-Retainer |
| 10 | 127-2960 | 4 | Screw |
| 11 | 127-2961 | 2 | Stud |
| 12 | 127-3845 | 1 | Frame |
| 13 | 127-3846 | 1 | Cover |
| 14 | 127-2954 | 1 | Pulley |
| 15 | 127-2955 | 1 | Nut |
| 16 | 127-2957 | 1 | Collar |
| 17 | 135-4026 | 1 | Regulator ASM |
| 18 | 127-3848 | 1 | Holder |
| 19 | 127-2993 | 1 | Holder |
| 20 | 127-2965 | 6 | Screw |
| 21 | 127-2966 | 1 | Screw |
| 22 | 127-2967 | 3 | Bolt |
| 23 | 127-2968 | 2 | Screw |
| 24 | 127-2969 | 2 | Bolt |
| 25 | 127-2970 | 1 | Bushing-Insulation |
| 26 | 127-2971 | 2 | Nut |
| 27 | 125-7230 | 1 | Nut |
| 28 | 125-6947 | 1 | Spacer |
| 29 | 127-2977 | 1 | Adjuster |
| 30 | 135-4027 | 1 | Bolt-Adjust |
| 31 | 125-7219 | 1 | Bolt |

# Electronic Control Unit Assembly

# Electronic Control Unit Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 9 | 121-5592 | 1 | Electronic Control Unit |

# Electric Parts Assembly

# Electric Parts Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 130-7436 | 1 | Bracket-Connector |
| 2 | 135-4029 | 1 | Harness |
| 12 | 130-7438 | 1 | Harness |
| 17 | 131-2713 | 1 | Boot-Cap |
| 18 | 127-3090 | 1 | Bracket-Harness |
| 19 | 125-7213 | 2 | Bolt |
| 20 | 125-7212 | 2 | Bolt |
| 21 | 127-3187 | 1 | Band |
| 22 | 127-3188 | 1 | Band |

# Accessory Assembly

# Accessory Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 140-7185 | 1 | Tank ASM |
| 3 | 140-7165 | 1 | Bracket-Tank |
| 4 | 121-5613 | 1 | Pump-Fuel, Electric |

# Gasket Set

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# Gasket Set (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 130-7440 | 1 | Packing (Gasket Set) |
| 2 | 127-4716 | 1 | Head Gasket ASM |
| 3 | 127-3762 | 1 | Gasket-Cover, Cylinder Head |
| 4 | 127-2986 | 3 | Seal-Stem, Valve |
| 5 | 127-3027 | 3 | Seal-Stem, Valve |
| 6 | 127-3021 | 3 | Gasket-Injector |
| 7 | 127-3769 | 1 | Gasket-Manifold, Intake |
| 8 | 127-3032 | 2 | O Ring-Sensor, Pressure |
| 9 | 127-3033 | 1 | O-Ring |
| 10 | 127-3034 | 1 | Gasket-Collector |
| 11 | 127-3037 | 2 | Gasket-Throttle |
| 12 | 127-3775 | 1 | Gasket-Manifold, Exhaust |
| 13 | 127-2987 | 1 | Gasket-Silencer |
| 14 | 127-3043 | 2 | Gasket-Cooler, E G R |
| 15 | 127-3016 | 1 | Gasket |
| 16 | 127-3050 | 1 | Gasket-Intake Valve, E G R |
| 17 | 127-3051 | 1 | Gasket-Out Valve, E G R |
| 18 | 127-3787 | 2 | Gasket-D P F |
| 19 | 127-3056 | 4 | Gasket-Sensor |
| 20 | 127-3069 | 1 | Gasket-Idle, Shaft B |
| 21 | 127-3004 | 1 | Gasket |
| 22 | 125-6909 | 2 | O-Ring |
| 23 | 127-2973 | 1 | O-Ring |
| 24 | 125-7075 | 1 | O-Ring |
| 25 | 125-7022 | 1 | Gasket |
| 26 | 125-7024 | 1 | Gasket |
| 27 | 125-7047 | 1 | Gasket |
| 28 | 125-7048 | 1 | O-Ring |
| 29 | 125-6979 | 1 | Gasket |
| 30 | 125-7110 | 1 | Gasket |
| 31 | 125-7026 | 1 | Gasket |
| 32 | 125-6978 | 1 | Gasket |
| 33 | 127-3074 | 1 | O-Ring |
| 34 | 125-7174 | 1 | Washer-Seal |
| 35 | 125-7176 | 1 | Washer-Seal |
| 36 | 127-3166 | 2 | Washer-Seal |
| 37 | 125-7177 | 1 | Washer-Seal |
| 38 | 125-7192 | 1 | Gasket |
| 39 | 127-3174 | 2 | Gasket |
| 40 | 138-7829 | 3 | O-Ring |
| 41 | 125-7197 | 2 | O-Ring |

# Attachments and Accessories

## For 31902 Groundsmaster 3300 All-Wheel Drive Traction Unit

| Product Name | Model/Part |
|---|---|
| Operator Cooling Fan | 03247 |
| Switch Panel | 03248 |
| Filter-Air | 108-3810 |
| Paint-Black Bottle | 112-0176 |
| Paint-Red Pen | 112-0177 |
| Paint-Red Bottle | 112-0178 |
| 15-Pound Cast Weight | 112-7059-01 |
| 42-Pound Weight | 114-4096 |
| Seat Cover (W/arm rest) | 117-0095 |
| Premium Synthetic Bio-Degradable Hydraulic Fluid (5 Gallon Pail) | 119-2157 |
| Premium Synthetic Bio-Degradable Hydraulic Fluid (55 Gallon Drum) | 119-2158 |
| Fuel/Water Separator Filter | 125-2915 |
| Engine Oil Filter | 125-7025 |
| PX Hydraulic Fluid (5 Gal) | 133-8086 |
| PX Hydraulic Fluid (55 Gal) | 133-8087 |
| Beacon Kit | 138-2699 |
| Work Lights Kit | 138-2700 |
| Wrench-Caster Cap/Latch | 138-6367 |
| Storage Bag Kit | 139-2020 |
| SMV Kit | 139-2339 |
| Filter-Fuel | 139-6017 |
| Power Harness Kit | 140-1559 |
| Kit-Weight | 144-0480 |
| Plate-Weight, 25 LBS | 144-0484 |
| Kit-Blade, Std (24.5) 3pk | 144-3911 |
| Kit-Blade, Med Flow (20.5) 3pk | 144-3912 |
| Kit-Blade, High Flow (20.5) 3pk | 144-3913 |
| Kit-Blade, Atomic (20.5) 3pk | 144-3914 |
| Kit-Blade, Low Flow (24.5) 3pk | 144-3915 |
| Kit-Blade, Recycling (24.5) 3pk | 144-3916 |
| Kit-Blade, Low Flow (20.5) 3pk | 144-3917 |
| Kit-Blade, Recycling (20.5) 3pk | 144-3918 |
| Kit-Blade-24.50 Low Flow 3pk | 144-3962 |
| Kit-Blade-24.50 Recycler 3pk | 144-3963 |
| Kit-Blade-20.50 Low Flow 3pk | 144-3964 |
| Kit-Blade-20.50 Recycler 3pk | 144-3965 |
| Kit-Blade-24.50 Atomic 3pk | 144-3966 |
| Kit-Blade-20.50 Atomic 3pk | 144-3967 |
| White Universal Sunshade | 30669 |
| Red Universal Sunshade | 30671 |
| Slope Sensor Kit | 31952 |
| CE Kit, Groundsmaster 3200 or 3300 Series Traction Unit | 31953 |
| CE Kit, Groundsmaster 3200 or 3300 Series 60in Side Discharge Rotary Mower | 31957 |
| CE Kit, Groundsmaster 3200 or 3300 Series 72in Side Discharge Rotary Mower | 31958 |
| CE Kit, Groundsmaster 3200 or 3300 Series 60in Rear Discharge Rotary Mower | 31959 |
| CE Kit, Groundsmaster 3200 or 3300 Series 72in Rear Discharge Rotary Mower | 31960 |

# Attachments and Accessories (continued)


Auxiliary HYD Kit ..... 31966
60in SD Deck ..... 31970
60in RD Deck ..... 31971
72in SD Deck ..... 31972
72in RD Deck ..... 31973
60in RD Deck, T2 ..... 31974
72in RD Deck, T2 ..... 31975
Recycler Kit 60in/152cm SD ..... 31976
Recycler Kit, 60In/152cm RD ..... 31977
Recycler Kit, 72In/183cm SD ..... 31978
Recycler Kit, 72In/183cm RD ..... 31979
Seat Assembly - Standard ..... 31980
Seat Assembly - Mechanical Suspension ..... 31981
Seat Assembly - Air Ride Suspension ..... 31982
Storage Box Kit ..... 31983
USB Charging Kit ..... 31984
Recycler Kit 60in/152cm Rd T2 ..... 31985
Recycler Kit 72in/183cm Rd T2 ..... 31986
Cab-Winter, GM3000 Series ..... 31990
Road Light Kit (North America) ..... 31991
Road Light Kit (EU) ..... 31992
Accessory Control Kit ..... 31994
LED Beacon Kit ..... 31996
Led Work-light Kit (GM3200/3300, Rops) ..... 31997
Hydraulic Hose Kit ..... 31999
Toro Red 12oz Aerosol Can ..... 361-10
Semi-Gloss Black Spray Paint ..... 361-9
Filter-Oil, Transmission ..... 86-3010

**Notes:**

**Notes:**

TORO®

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