Form No. 3468-924 Rev F

TORO®

Count on it.

Parts Catalog

# ProCore® 648s

## Aerator

**Model No. 09960C—Serial No. 400000000 and Up**

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

CE

*3468-924* F

# 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.

# Contents


Control Assembly . . . . . 4
Sensor Mounting Assembly . . . . . 6
Column Pivot Assembly . . . . . 7
Steering Spindle and Arm Assembly . . . . . 8
Front Drive Assembly . . . . . 9
(CCW) Hydraulic Motor Assembly No. 106-8808 . . . . . 10
Rear Hydraulic Drive Assembly . . . . . 11
(CCW) Hydraulic Motor Assembly No. 106-8806 . . . . . 12
(CW) Hydraulic Motor Assembly No. 106-8807 . . . . . 13
Parking Brake Assembly . . . . . 14
Lift Linkage Assembly . . . . . 15
Hydraulic Assembly . . . . . 16
Hydrostat Assembly No. 140-8564 . . . . . 18
Gear Pump Assembly No. 140-8836 . . . . . 19
Manifold Assembly No. 140-8614 . . . . . 20
Hydraulic Hose and Tube Assembly . . . . . 21
Fuel System Assembly . . . . . 22
Engine and Muffler Assembly . . . . . 23
Idler, Pulley and Belt Assembly . . . . . 24
Clutch Assembly . . . . . 25
Hood Assembly . . . . . 26
Electrical Assembly . . . . . 27
Wire Harness Assembly No. 122-3753 . . . . . 29
Rear Frame and Hood Assembly . . . . . 30
Belt Shield Assembly . . . . . 31
Hydraulic Cylinder Assembly No. 140-2205 . . . . . 32
Turf Guard Mount Assembly . . . . . 33
RH Crankarm Assembly . . . . . 34
Center Crankarm Assembly . . . . . 35
LH Crankarm Assembly . . . . . 36
Damper Link Assembly . . . . . 37
Attachments and Accessories . . . . . 38

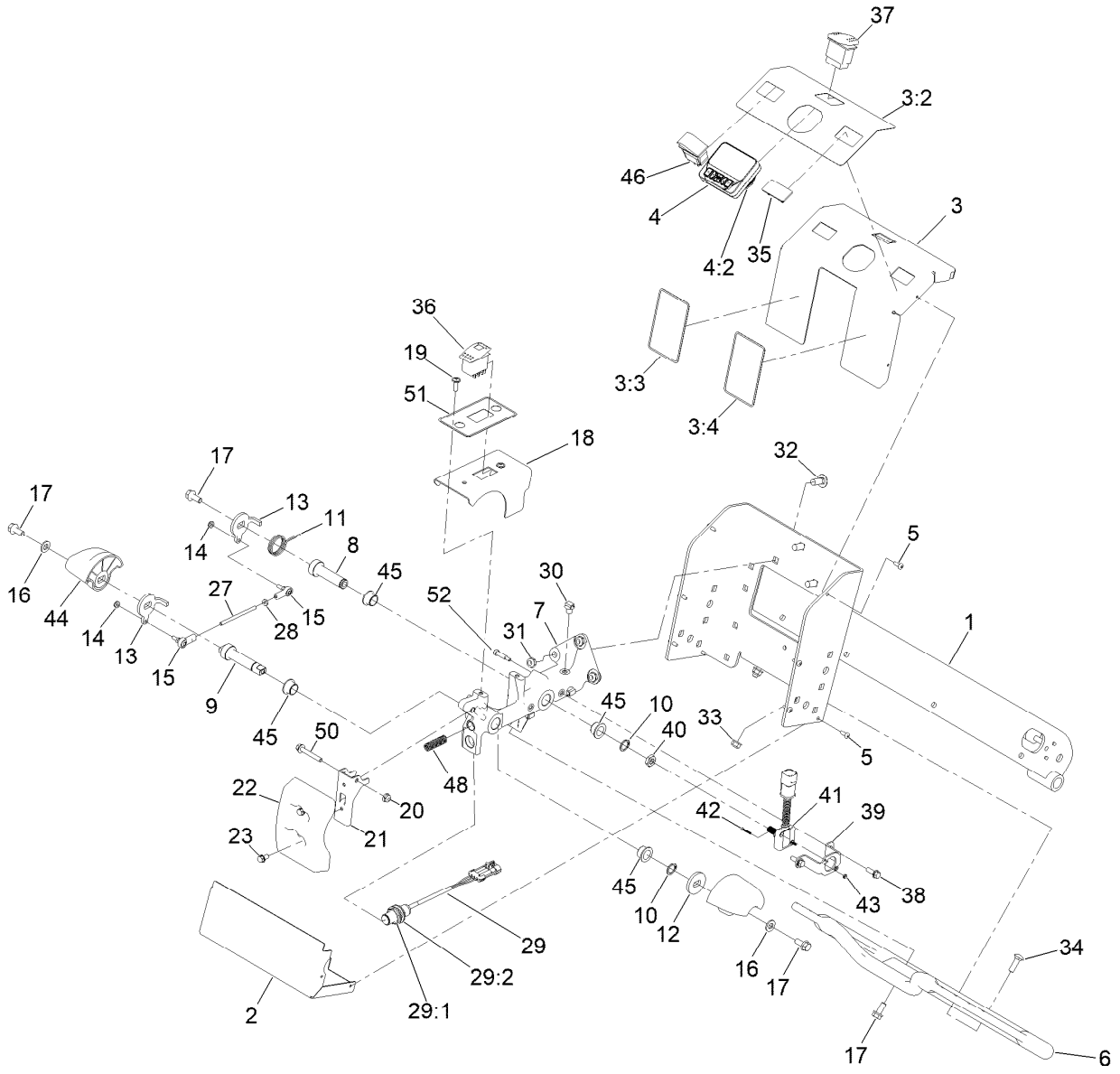


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**Bloomington, MN 55420**





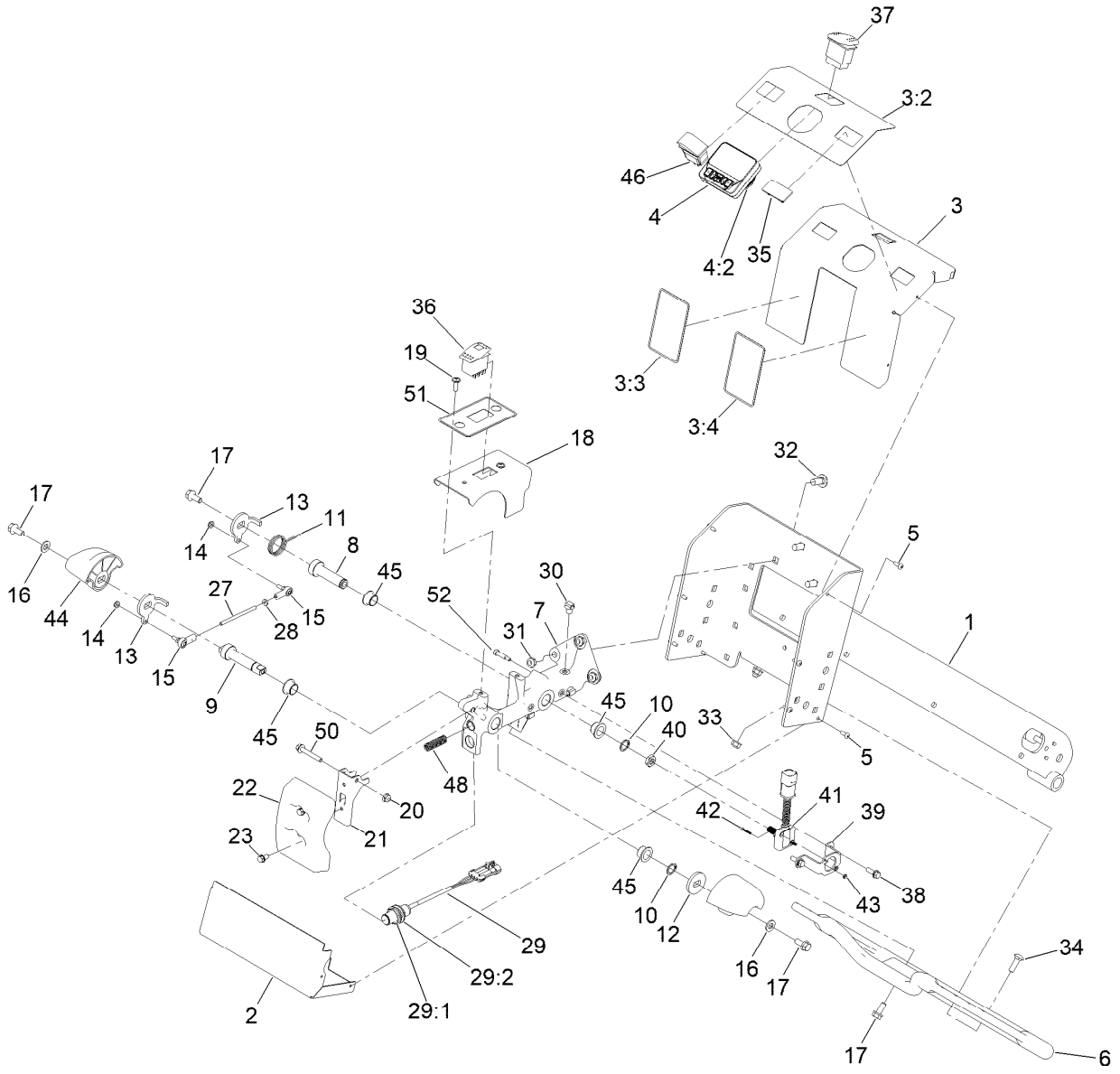
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# Control Assembly

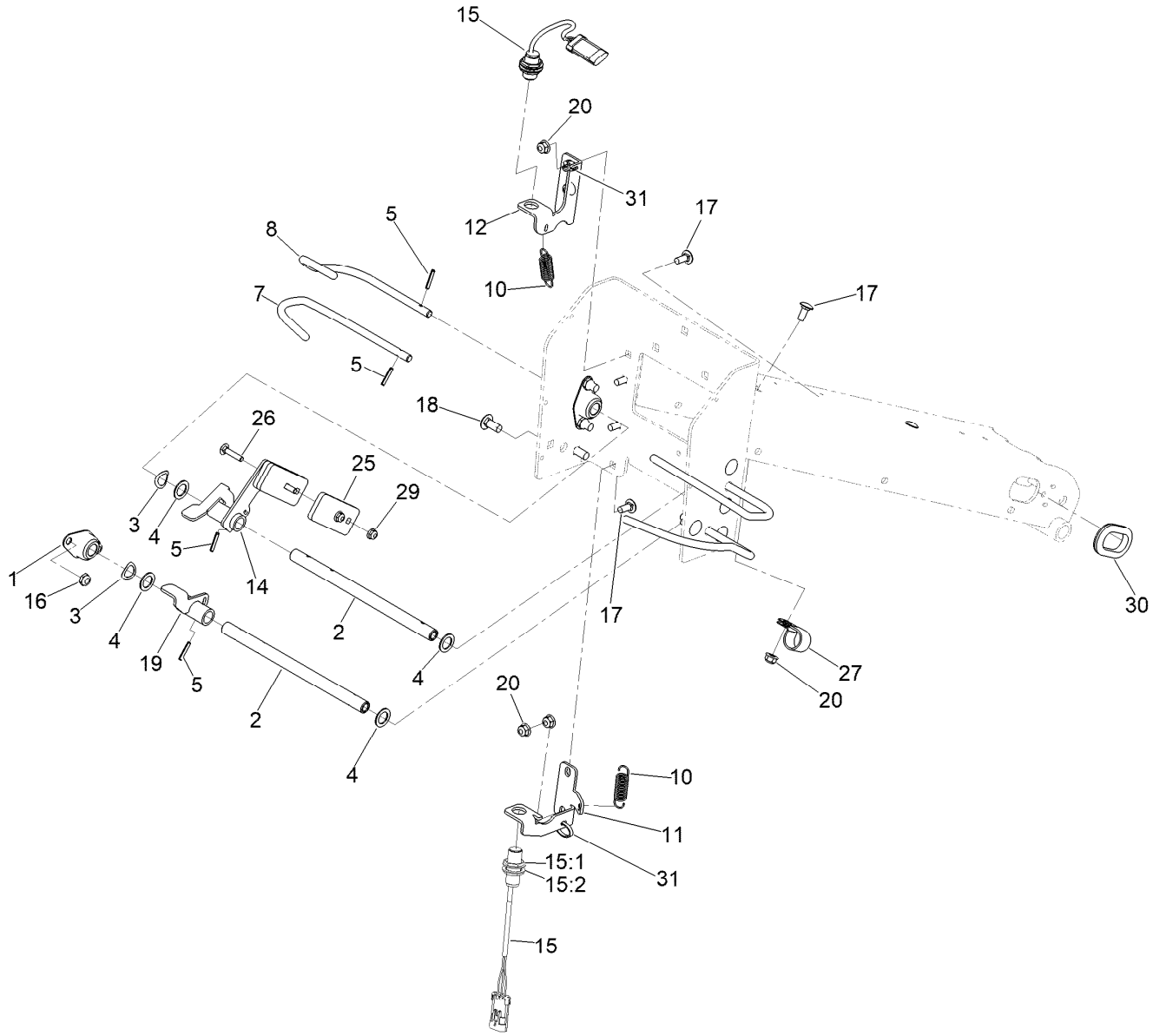
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 140-8589-01 | 1 | Control Handle ASM [red] |
| 2 | 144-9821-03 | 1 | Cover-Controls, Lower |
| 3 | 144-9840 | 1 | Dash Panel Assembly |
| 3:2 | 140-8810 | 1 | Decal-Controls |
| 3:3 | 140-8811 | 1 | Decal-Controls |
| 3:4 | 140-8812 | 1 | Decal-Controls |
| 4 | 161-1700 | 1 | Display-LCD |
| 4:2 | 161-1723 | 1 | Nut-Display |
| 5 | 105-6849 | 8 | Screw-Forming, Thread |
| 6 | 140-8929 | 1 | Handle |
| 7 | 140-8936 | 1 | Hub-Controls |
| 8 | 140-8590 | 1 | Shaft-Sensor |
| 9 | 140-8625 | 1 | Shaft-Sensor |
| 10 | 32151-62 | 2 | Ring-Retaining |
| 11 | 139-8662 | 1 | Spring-Torsion |
| 12 | 140-8941 | 1 | Plate-Sensor |
| 13 | 140-8594 | 2 | Plate-Sensor |
| 14 | 3296-27 | 2 | Nut-Lock, NI |
| 15 | 117-9720 | 2 | Ball Joint |
| 16 | 3256-38 | 2 | Washer-Flat |
| 17 | 100-1668 | 4 | Screw-HHF |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 18 | 140-8631-03 | 1 | Panel-Control |
| 19 | 92-3911 | 2 | Screw-Hsbfh |
| 20 | 104-7201 | 1 | Nut-HF, NI |
| 21 | 140-8629 | 1 | Paddle-Switch |
| 22 | 140-8632 | 1 | Cover-Switch, Stop |
| 23 | 137-4795 | 2 | Screw |
| 27 | 140-8764 | 1 | Rod-Threaded |
| 28 | 3219-14 | 1 | Nut-Hex |
| 29 | 115-0282 | 1 | Sensor, Proximity Sensor ASM |
| 29:1 | 117-3207 | 2 | Nut-Hex |
| 29:2 | 117-3208 | 2 | Washer-Lock, Internal Tooth |
| 30 | 32180-030 | 3 | Clip-Tie |
| 31 | 3296-59 | 3 | Nut-Lock, NI |
| 32 | 3231-27 | 3 | Screw-CARR |
| 33 | 104-8300 | 2 | Nut-HF, NI |
| 34 | 3230-22 | 2 | Screw-CARR |
| 35 | 99-7420 | 1 | Plug-Hole |
| 36 | 100-8490 | 1 | Switch-Rocker, On-None-On |




# Control Assembly (continued)

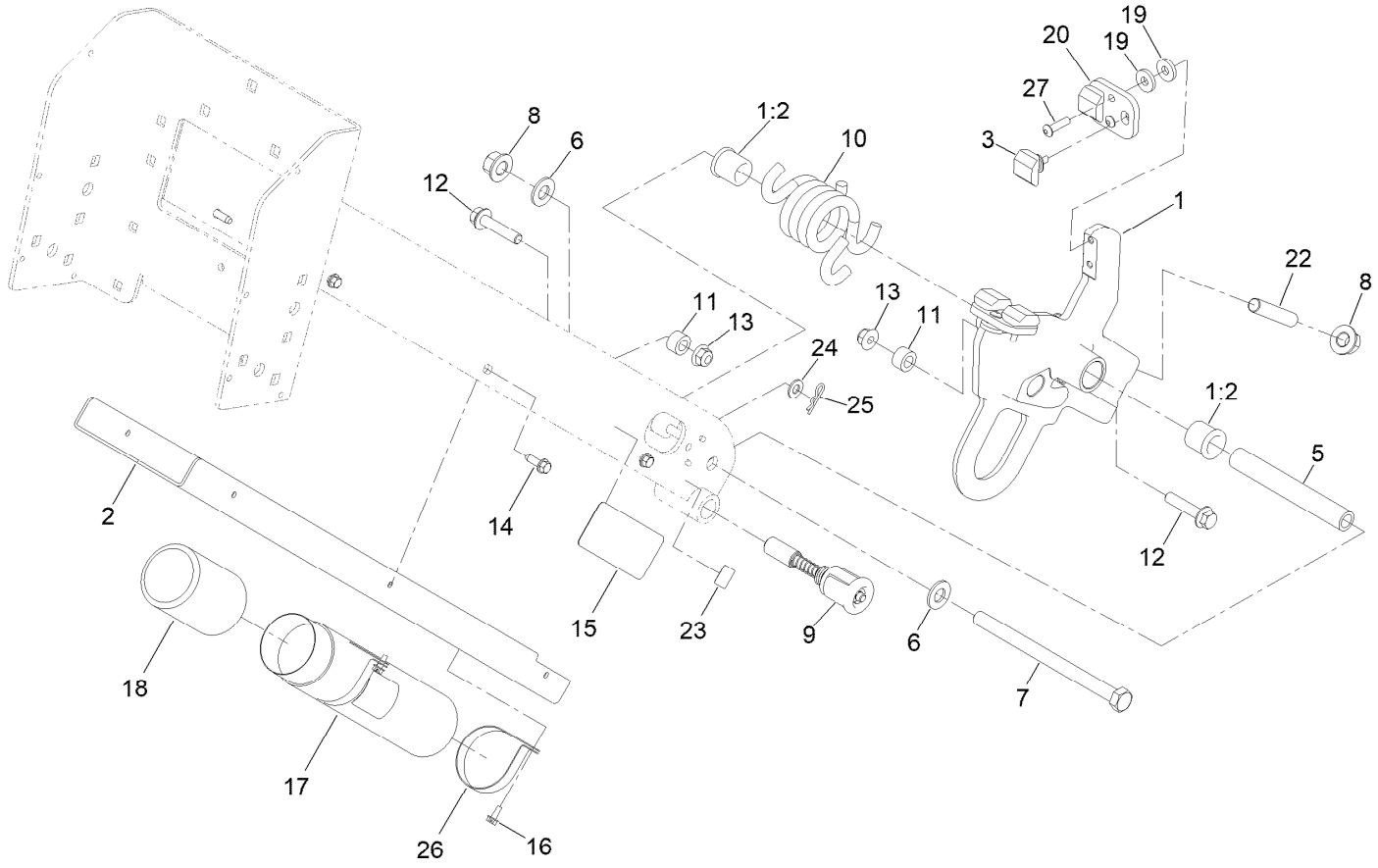
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 37 | 95-8999 | 1 | Switch-Rocker, On-None-On |
| 38 | 117-8304 | 2 | Screw-HHF, Patch |
| 39 | 140-8776 | 1 | Brkt-Sensor |
| 40 | 112-8617 | 1 | Nut-Hex |
| 41 | 138-6252 | 1 | Sensor-Rotary |
| 42 | 140-8959 | 2 | Screw-Fht |
| 43 | 3296-52 | 2 | Nut-Lock, NI |
| 44 | 140-8949 | 2 | Knob-Rotary |
| 45 | 108-2973 | 4 | Bushing-Flange |
| 46 | 119-8355 | 1 | Switch-Rocker |
| 48 | 136-7136 | 1 | Spring-Compression |
| 50 | 32105-18 | 1 | Screw-HHF |
| 51 | 140-8813 | 1 | Decal-Controls |
| 52 | 130-9374 | 1 | Screw-Shoulder |




# Sensor Mounting Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 256-236 | 4 | Bearing-Mount, Flange |
| 2 | 140-8639 | 2 | Tube-Bail |
| 3 | 108-2100 | 2 | Washer-Spring, Curved |
| 4 | 3256-69 | 4 | Washer-Flat |
| 5 | 32121-45 | 6 | Pin-Spring |
| 7 | 144-9842 | 2 | Bail-Aerator, 1 |
| 8 | 144-9844 | 2 | Bail-Aerator, 2 |
| 10 | 136-7153 | 2 | Spring-Extension |
| 11 | 144-9822 | 1 | Brkt-Sensor, Lower |
| 12 | 144-9823 | 1 | Brkt-Sensor, Upper |
| 14 | 140-8930 | 1 | Flag ASM |
| 15 | 115-0282 | 2 | Sensor, Proximity Sensor ASM |

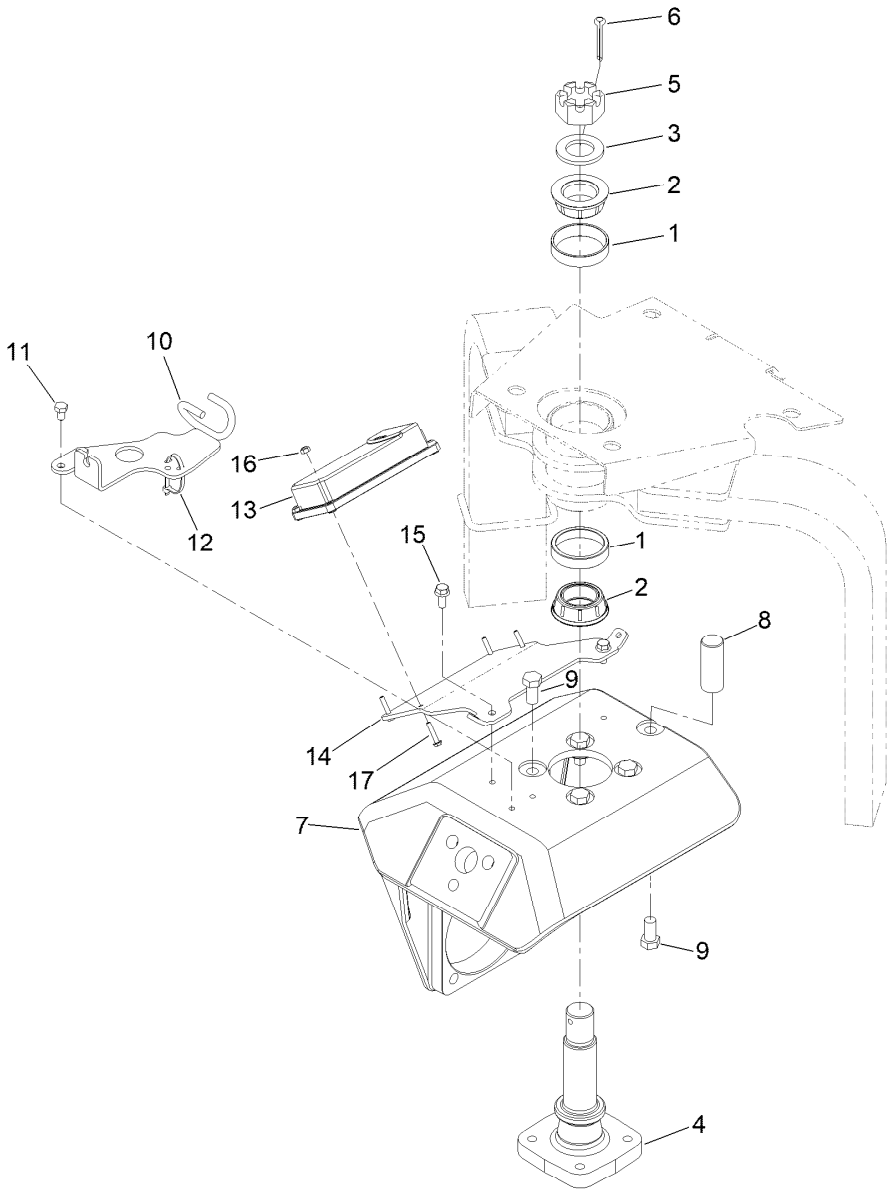
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 15:1 | 117-3207 | 2 | Nut-Hex |
| 15:2 | 117-3208 | 2 | Washer-Lock, Internal Tooth |
| 16 | 3296-59 | 8 | Nut-Lock, NI |
| 17 | 3230-23 | 6 | Bolt-CARR |
| 18 | 3231-27 | 8 | Screw-CARR |
| 19 | 140-8920 | 1 | Flag ASM |
| 20 | 104-8300 | 6 | Nut-HF, NI |
| 25 | 140-8933 | 3 | Plate-Weight |
| 26 | 3229-3 | 2 | Screw-CARR |
| 27 | 2412-39 | 2 | Clamp-R |
| 29 | 104-7201 | 2 | Nut-HF, NI |
| 30 | 240-2 | 1 | Grommet-Rubber |
| 31 | 3290-378 | 2 | Tie-Cable |




# Column Pivot Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 144-9845 | 1 | Column Pivot ASM |
| 1:2 | 117-0826 | 2 | Bushing-Flange |
| 2 | 140-8751-03 | 1 | Cover-Handle, Lower |
| 3 | 126-9966 | 4 | Bumper-ROPS |
| 5 | 140-8549 | 1 | Tube-Pivot |
| 6 | 3256-26 | 2 | Washer-Flat |
| 7 | 325-37 | 1 | Screw-HH |
| 8 | 99-5107 | 4 | Nut-HF Nylock |
| 9 | 116-0104 | 1 | Pin-Spring |
| 10 | 140-8768 | 1 | Spring-Torsion |
| 11 | 140-8770 | 2 | Spacer |
| 12 | 3234-19 | 2 | Screw-HHF |
| 13 | 104-8301 | 2 | Nut-HF, NI |

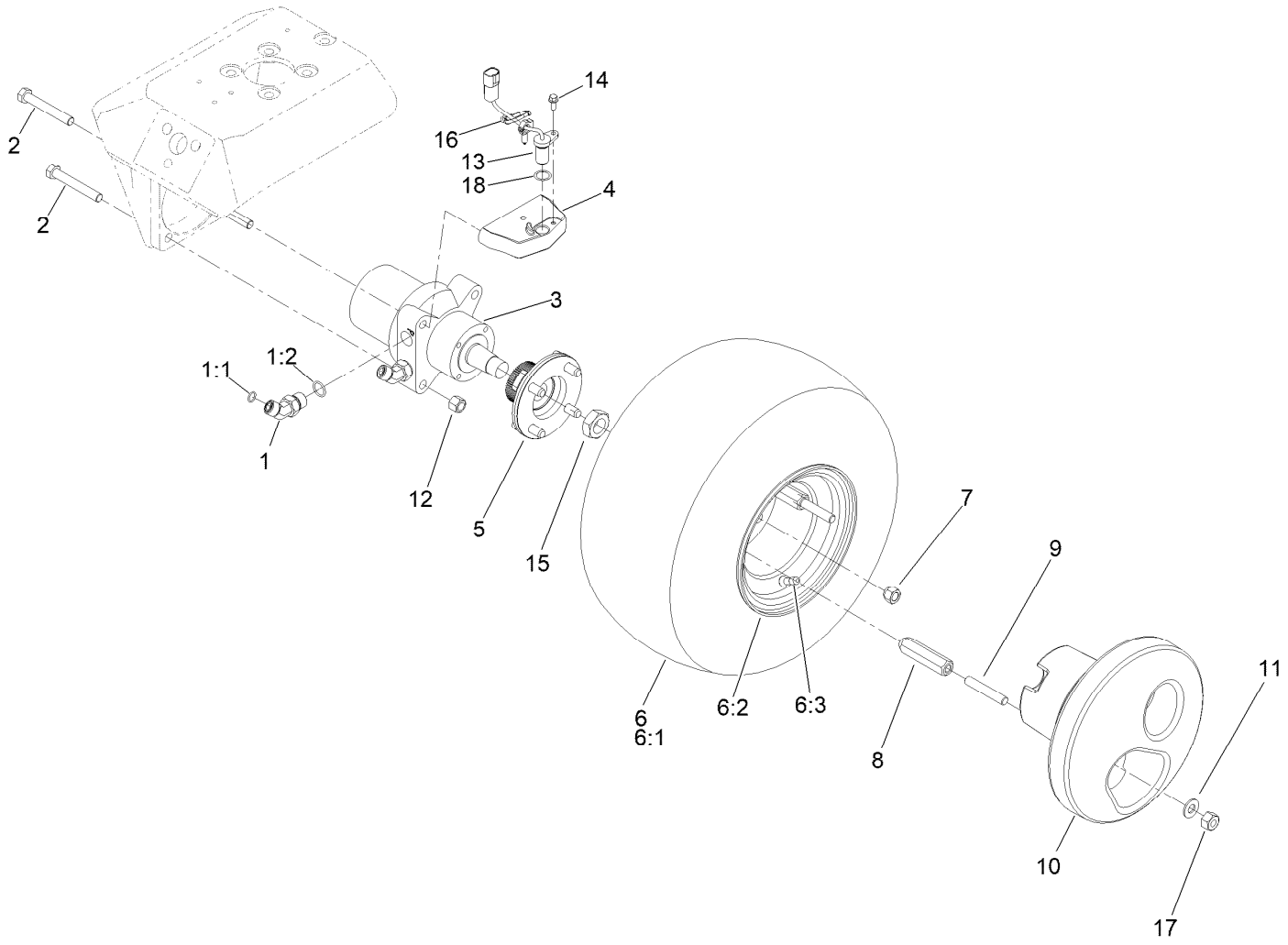
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 14 | 32144-44 | 6 | Screw-HWH, Thread Roll |
| 15 | 140-8963 | 1 | Decal-Parking Brake |
| 16 | 32104-60 | 2 | Screw-HWH |
| 17 | 104-7050 | 1 | Tube-Manual |
| 18 | 104-7048 | 1 | Cap-Housing |
| 19 | 88-7200 | 8 | Washer-Flat |
| 20 | 140-8955 | 2 | Plate-Stop |
| 22 | 144-9825 | 3 | Stud |
| 23 | 93-9084 | 1 | Decal-Point, Lift |
| 24 | 3256-23 | 1 | Washer-Plain |
| 25 | 3290-307 | 1 | Pin-Cotter |
| 26 | 2412-120 | 2 | Clamp-R |
| 27 | 3274-65 | 4 | Screw-HSBH |




# Steering Spindle and Arm Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 107-7590 | 2 | Cup-Bearing |
| 2 | 107-7589 | 2 | Cone-Bearing (W/ Seal) |
| 3 | 107-7597 | 1 | Washer-Plain |
| 4 | 107-7595-0P | 1 | Spindle-Steer |
| 5 | 32136-9 | 1 | Nut-Hex, Slotted |
| 6 | 3272-37 | 1 | Pin-Cotter |
| 7 | 161-9192-01 | 1 | Arm-Steering |
| 8 | 106-8939 | 1 | Stop-Steering |
| 9 | 325-4 | 5 | Screw-HH |

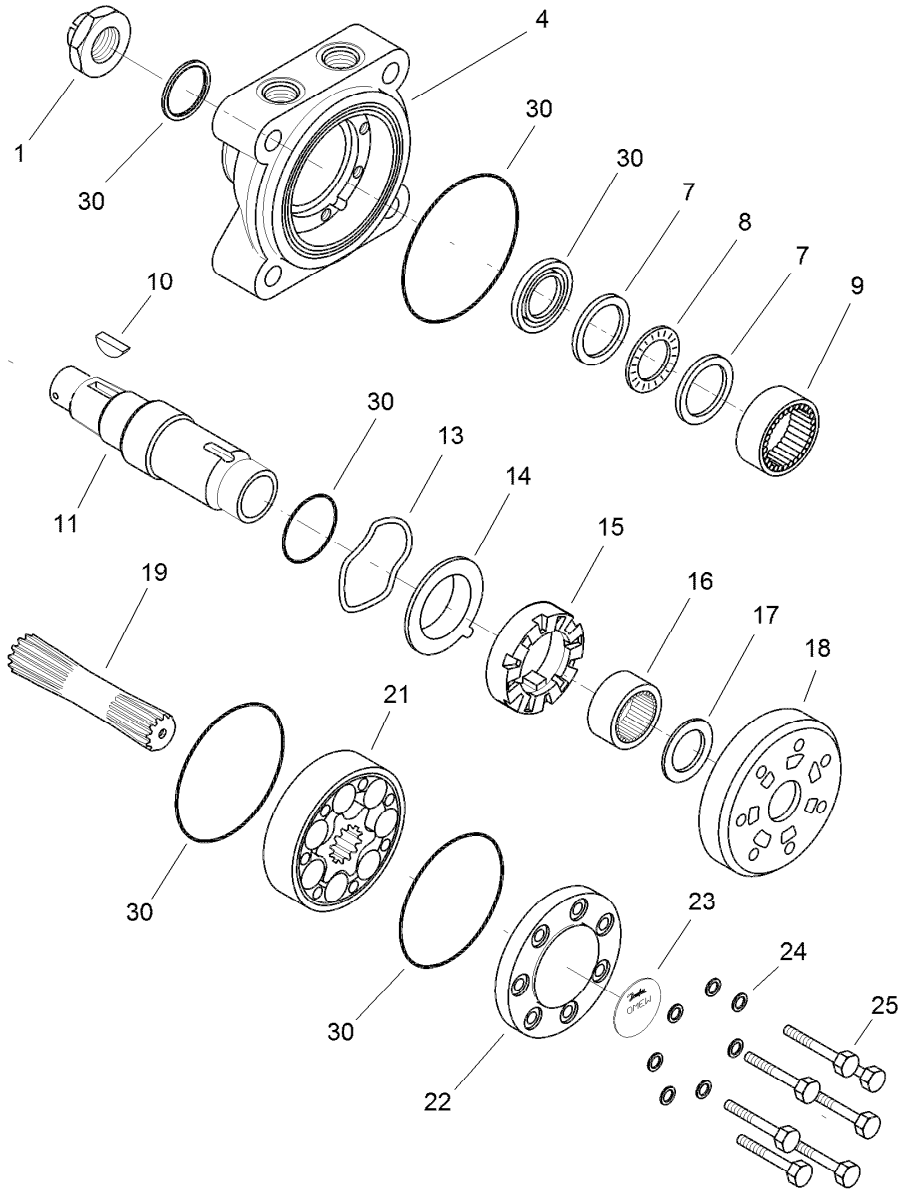
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 10 | 139-8664 | 1 | Guide ASM |
| 11 | 322-1 | 2 | Screw-HH |
| 12 | 3290-378 | 2 | Tie-Cable |
| 13 | 161-9001 | 1 | Gateway-Telematics |
| 14 | 144-9820-01 | 1 | Brkt-Module |
| 15 | 100-1668 | 2 | Screw-HHF |
| 16 | 3296-2 | 4 | Nut-Lock, NI |
| 17 | 131-6456 | 4 | Screw-HWH |




# Front Drive Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 340-89 | 2 | Fitting-HYD, 45 DEG |
| 1:1 | 237-30 | 1 | O-Ring |
| 1:2 | 237-80 | 1 | O-Ring |
| 2 | 325-13 | 4 | Screw-HH |
| 3 | 106-8808 | 1 | HYD Motor ASM |
| 4 | 144-9879 | 1 | Bracket-Sensor |
| 5 | 144-9813 | 1 | Hub -Wheel |
| 6 | 114-4665 | 1 | Tire ASM |
| 6:1 | 70-8500 | 1 | Tire-Smooth, 4-Ply |
| 6:2 | 114-4643 | 1 | Wheel |
| 6:3 | 232-27 | 1 | Stem-Valve |
| 7 | 139-2564 | 2 | Nut-Lug |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 8 | 107-3399 | 2 | Adapter-Weight, Wheel |
| 9 | 105-1088 | 2 | Stud |
| 10 | 147-9387 | 1 | Weight-Wheel |
| 11 | 87-7270 | 2 | Washer-Thrust |
| 12 | 3296-23 | 2 | Nut-Lock, NI |
| 13 | 144-9802 | 1 | Sensor-Speed |
| 14 | 3234-33 | 1 | Screw-HHF |
| 15 | 26-3790 | 1 | Nut-Lock |
| 16 | 32180-030 | 1 | Clip-Tie |
| 17 | 3296-25 | 2 | Nut-Lock, NI |
| 18 | 139-8694 | 1 | Shim |

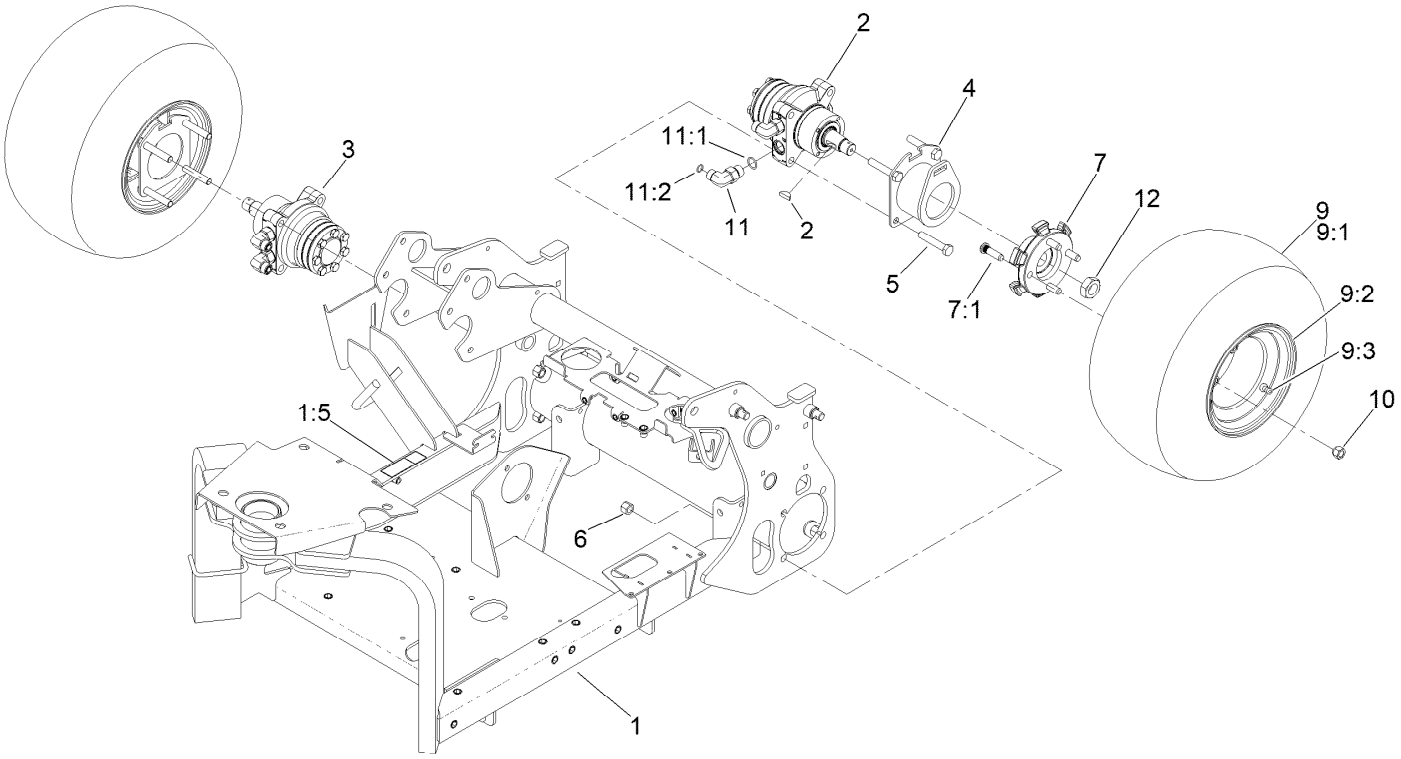



# (CCW) Hydraulic Motor Assembly No. 106-8808

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | | 1 | Nut-Castellated ● |
| 4 | | 1 | Housing ● |
| 7 | | 2 | Race-Bearing ● |
| 8 | | 1 | Bearing-Needle, Axial ● |
| 9 | | 1 | Bearing-Needle, Radial ● |
| 10 | 3257-42 | 1 | Key-Woodruff |
| 11 | | 1 | Shaft-Tapered ● |
| 13 | | 1 | Washer-Spring ● |
| 14 | | 1 | Plate-Balance ● |
| 15 | | 1 | Disc-Valve ● |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 16 | | 1 | Bearing-Needle, Radial ● |
| 17 | | 1 | Race-Bearing ● |
| 18 | | 1 | Plate-Distributor ● |
| 19 | | 1 | Shaft-Cardan ● |
| 21 | | 1 | Gearwheel Set ● |
| 22 | | 1 | Cover-End ● |
| 23 | | 1 | Plate-Name ● |
| 24 | | 7 | Washer ● |
| 25 | | 7 | Screw ● |
| 30 | 109-5966 | 1 | Wheel Motor Seal Kit |

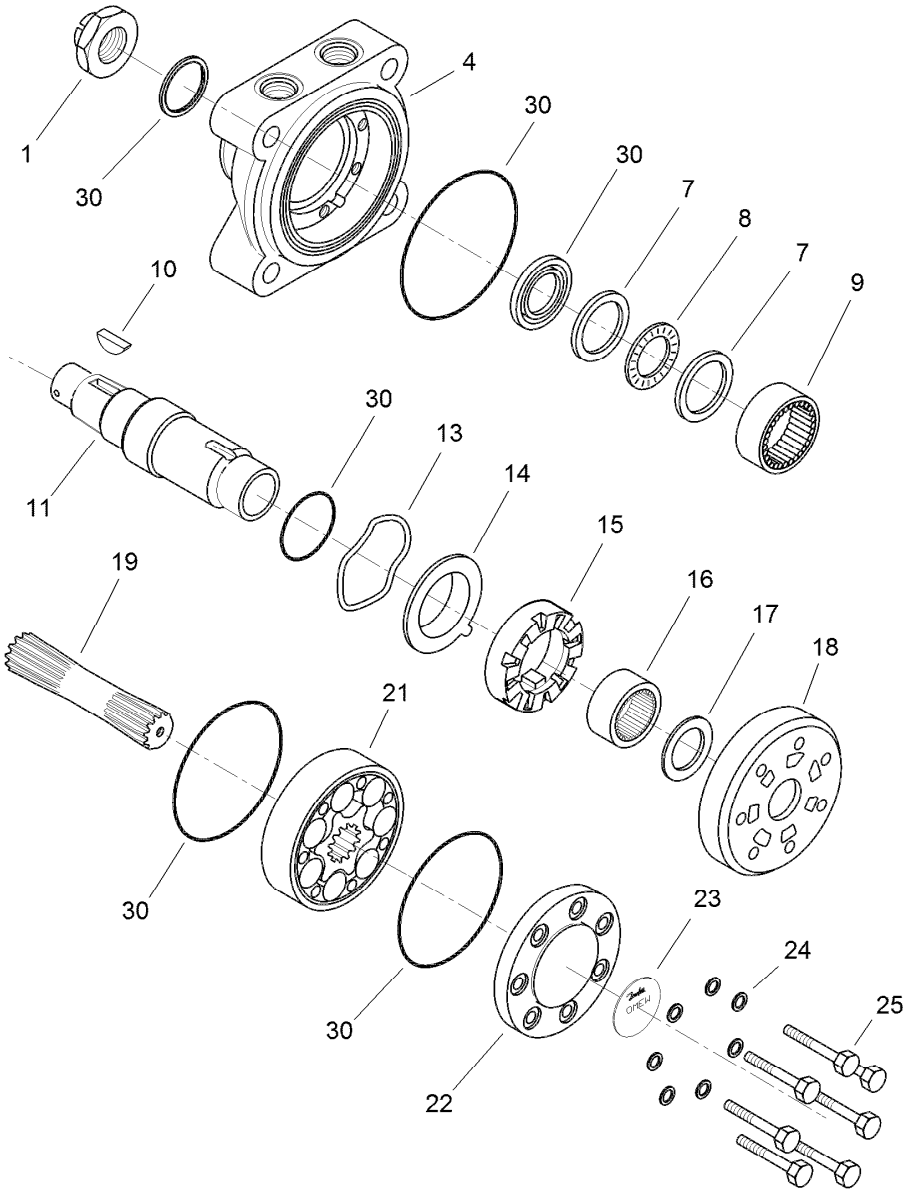
● Not serviced separately




# Rear Hydraulic Drive Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 161-6955 | 1 | Front Frame ASM |
| 1:5 | 117-4979 | 1 | Decal-Warning |
| 2 | 106-8806 | 1 | HYD Motor ASM |
| 3 | 106-8807 | 1 | HYD Motor ASM |
| 4 | 140-6269 | 2 | Parking Latch Supt |
| 5 | 325-11 | 8 | Screw-HH |
| 6 | 3296-23 | 8 | Nut-Lock, NI |
| 7 | 140-6277 | 2 | Wheel Hub ASM |
| 7:1 | 10-6830 | 4 | Stud-Type, Drive |

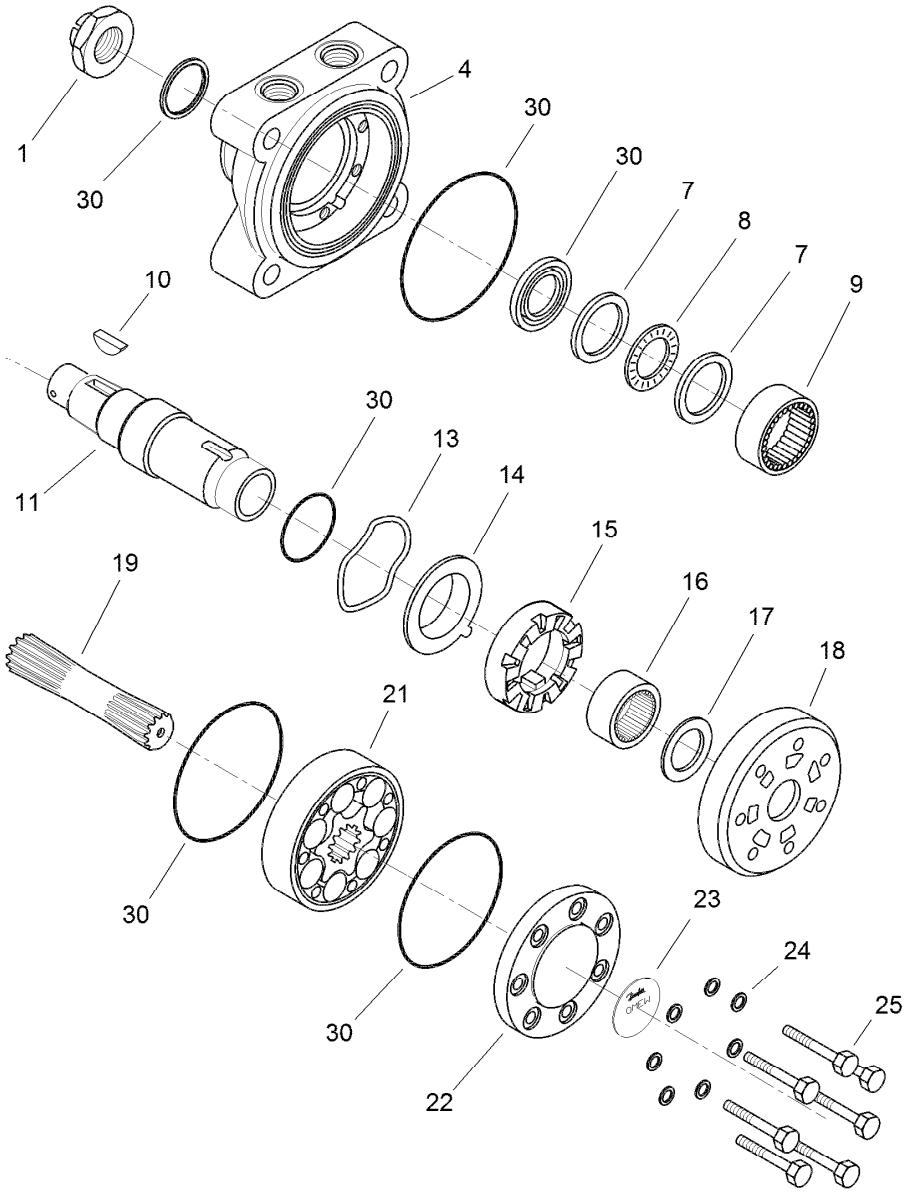
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 9 | 114-4665 | 2 | Tire ASM |
| 9:1 | 70-8500 | 1 | Tire-Smooth, 4-Ply |
| 9:2 | 114-4643 | 1 | Wheel |
| 9:3 | 232-27 | 1 | Stem-Valve |
| 10 | 139-2564 | 8 | Nut-Lug |
| 11 | 340-105 | 4 | Fitting-Elbow, 90 DEG |
| 11:1 | 237-80 | 1 | O-Ring |
| 11:2 | 237-30 | 1 | O-Ring |
| 12 | 26-3790 | 2 | Nut-Lock |




# (CCW) Hydraulic Motor Assembly No. 106-8806

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | | 1 | Nut-Castellated ● |
| 4 | | 1 | Housing ● |
| 7 | | 2 | Race-Bearing ● |
| 8 | | 1 | Bearing-Needle, Axial ● |
| 9 | | 1 | Bearing-Needle, Radial ● |
| 10 | 3257-42 | 1 | Key-Woodruff |
| 11 | | 1 | Shaft-Tapered ● |
| 13 | | 1 | Washer-Spring ● |
| 14 | | 1 | Plate-Balance ● |
| 15 | | 1 | Disc-Valve ● |
| 16 | | 1 | Bearing-Needle, Radial ● |
| 17 | | 1 | Race-Bearing ● |
| 18 | | 1 | Plate-Distributor ● |
| 19 | | 1 | Shaft-Cardan ● |
| 21 | | 1 | Gearwheel Set ● |
| 22 | | 1 | Cover-End ● |
| 23 | | 1 | Plate-Name ● |
| 24 | | 7 | Washer ● |
| 25 | | 7 | Screw ● |
| 30 | 109-5966 | 1 | Wheel Motor Seal Kit |

● Not serviced separately

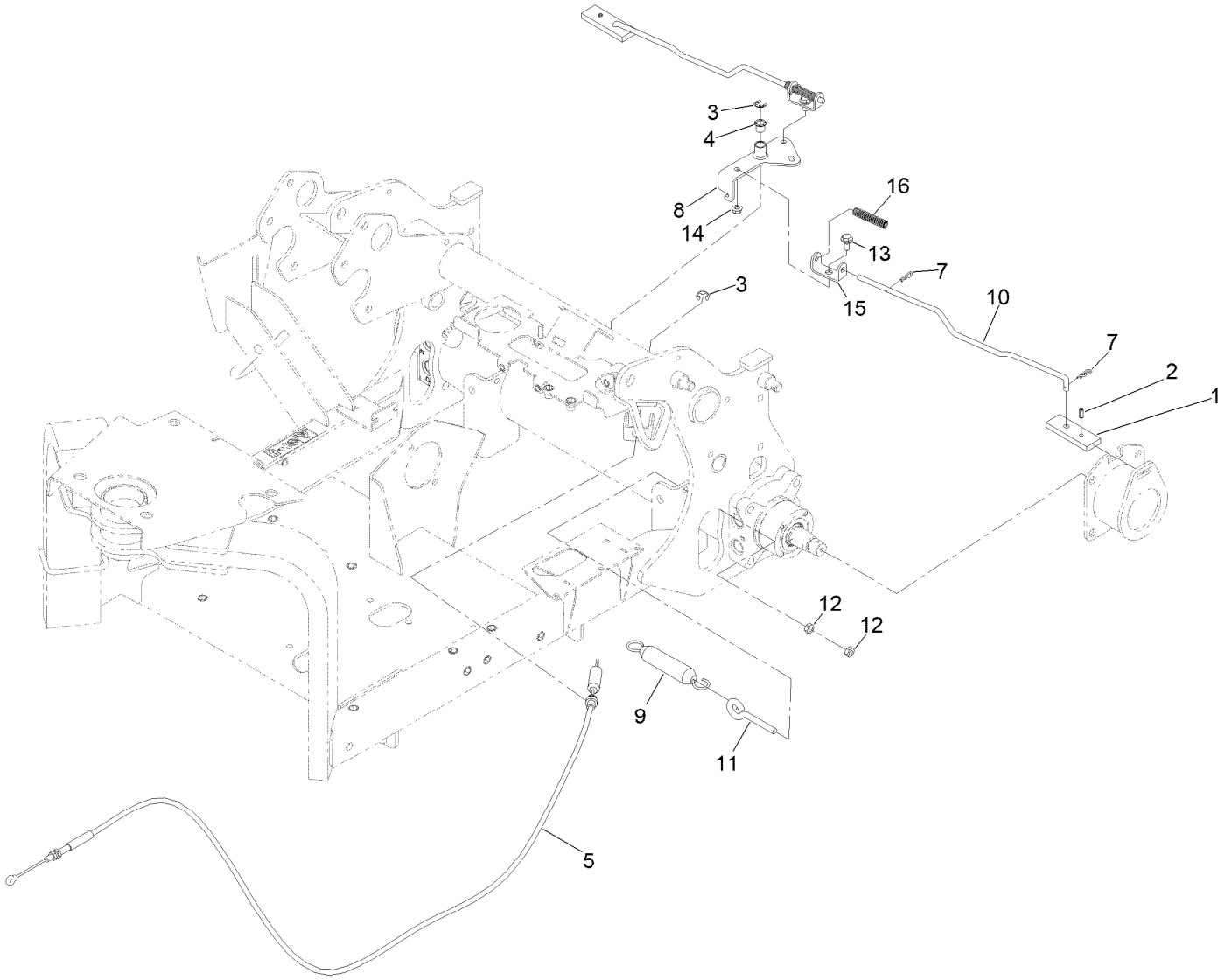



# (CW) Hydraulic Motor Assembly No. 106-8807

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | | 1 | Nut-Castellated ● |
| 4 | | 1 | Housing ● |
| 7 | | 2 | Race-Bearing ● |
| 8 | | 1 | Bearing-Needle, Axial ● |
| 9 | | 1 | Bearing-Needle, Radial ● |
| 10 | 3257-42 | 1 | Key-Woodruff |
| 11 | | 1 | Shaft-Tapered ● |
| 13 | | 1 | Washer-Spring ● |
| 14 | | 1 | Plate-Balance ● |
| 15 | | 1 | Disc-Valve ● |

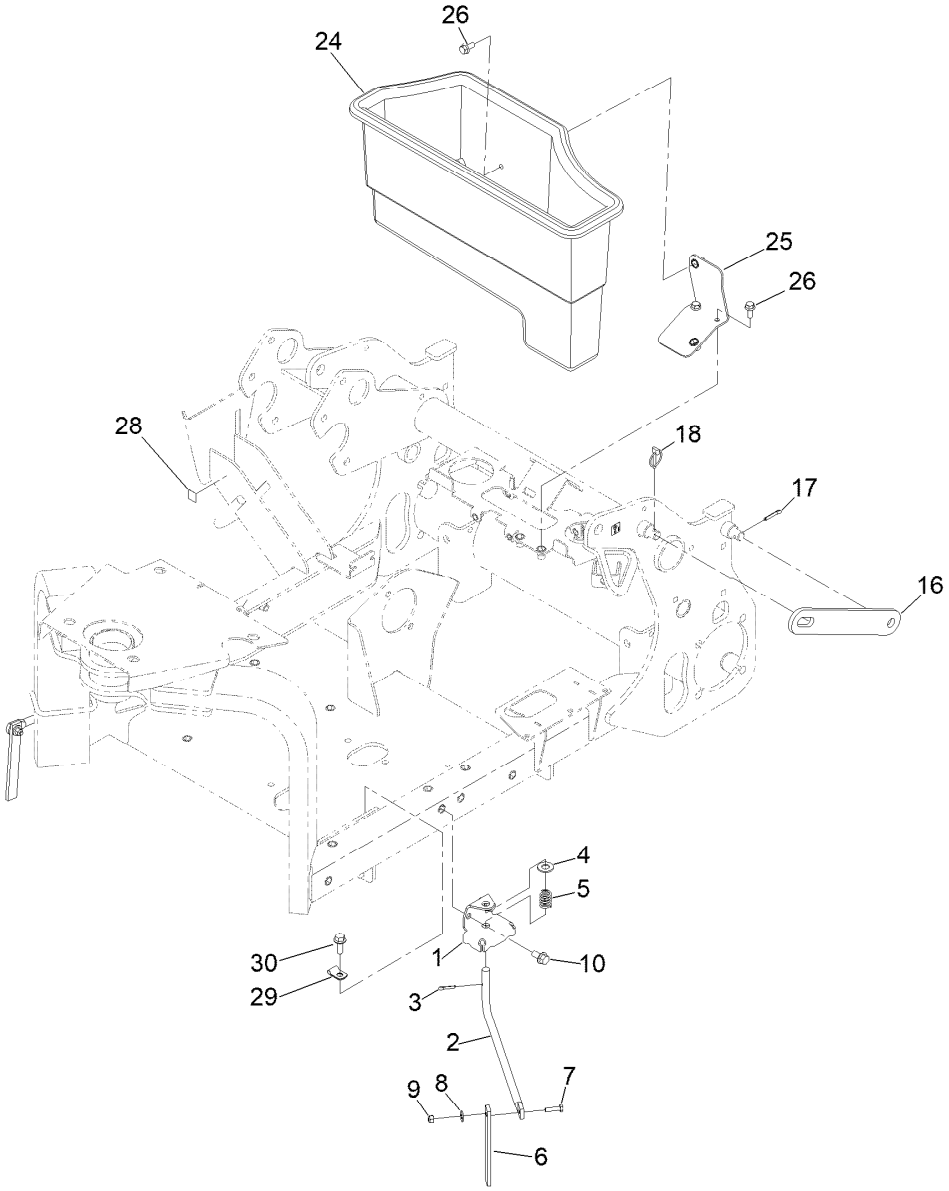
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 16 | | 1 | Bearing-Needle, Radial ● |
| 17 | | 1 | Race-Bearing ● |
| 18 | | 1 | Plate-Distributor ● |
| 19 | | 1 | Shaft-Cardan ● |
| 21 | | 1 | Gearwheel Set ● |
| 22 | | 1 | Cover-End ● |
| 23 | | 1 | Plate-Name ● |
| 24 | | 7 | Washer ● |
| 25 | | 7 | Screw ● |
| 30 | 109-5966 | 1 | Wheel Motor Seal Kit |

● Not serviced separately




# Parking Brake Assembly

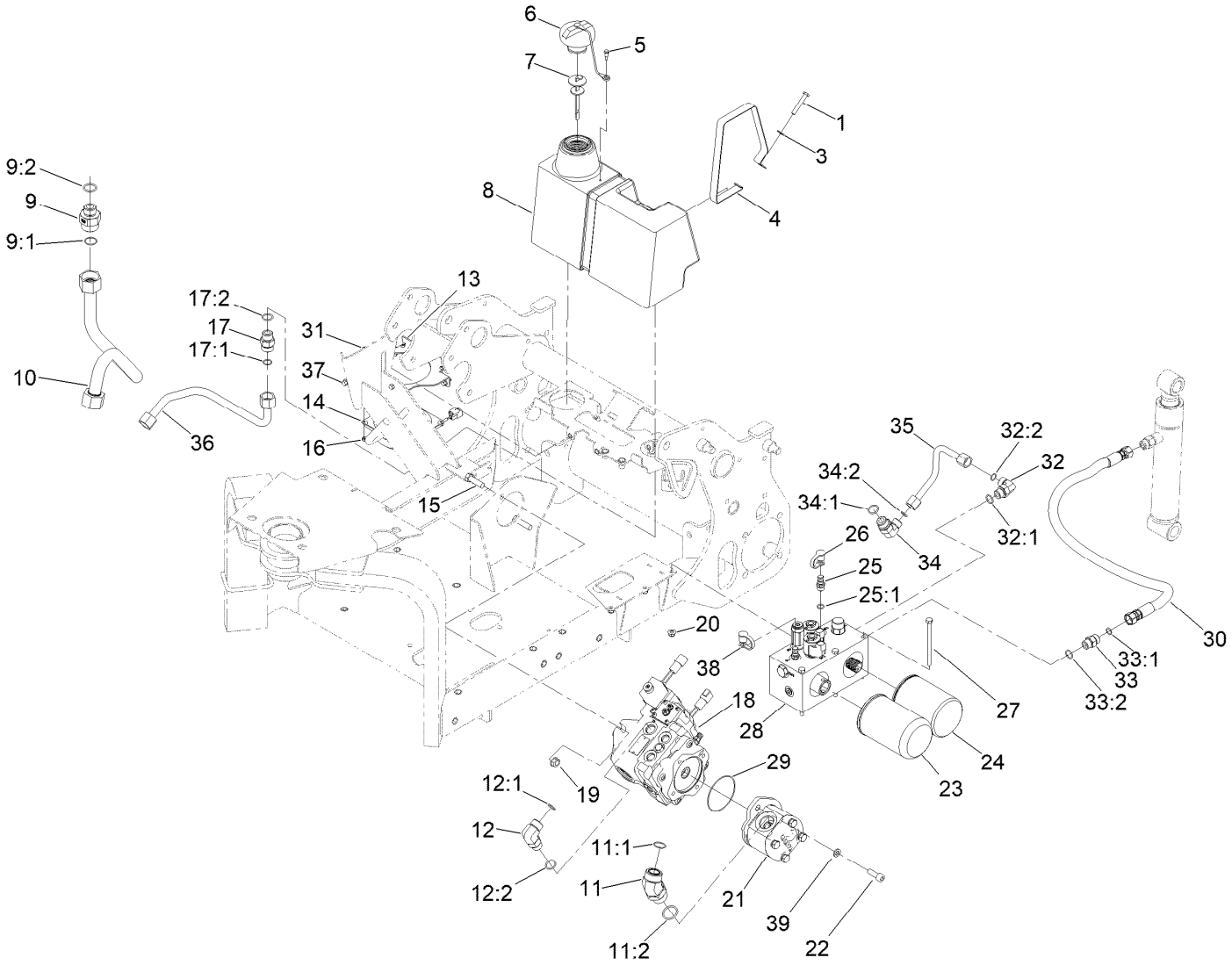
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 106-8885-03 | 2 | Bar-Latch, Parking |
| 2 | 32121-134 | 2 | Pin-Roll |
| 3 | 32120-47 | 2 | Ring-Retaining, External |
| 4 | 256-257 | 2 | Bushing-Nyliner |
| 5 | 161-6963 | 1 | Cable-Brake |
| 7 | 3290-307 | 4 | Pin-Cotter |
| 8 | 140-8586 | 1 | Pivot Latch ASM |
| 9 | 66-4270 | 1 | Spring-Extension |
| 10 | 140-8743 | 2 | Link-Latch, Parking |
| 11 | 94-2547 | 1 | Bolt-Eye |
| 12 | 3217-7 | 2 | Nut-Hex |
| 13 | 19-1470 | 2 | Screw-Shoulder |
| 14 | 104-8300 | 2 | Nut-HF, NI |
| 15 | 114-0631 | 2 | Clevis-Latch, Parking |
| 16 | 107-3376 | 2 | Spring-Compression |




# Lift Linkage Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 105-1178-01 | 2 | Bracket-Marker |
| 2 | 105-1179 | 2 | Rod-Marker |
| 3 | 3272-31 | 2 | Pin-Cotter |
| 4 | 3256-26 | 2 | Washer-Flat |
| 5 | 20-6110 | 2 | Spring-Compression |
| 6 | 59-9460 | 2 | Guide |
| 7 | 321-6 | 2 | Screw-HH |
| 8 | 3256-2 | 2 | Washer-Flat |
| 9 | 3296-42 | 2 | Nut-Lock, NI |
| 10 | 3234-1 | 4 | Screw-HHF |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 16 | 105-0983-01 | 1 | Bar-Prop |
| 17 | 3272-21 | 1 | Pin-Cotter |
| 18 | 3290-495 | 1 | Pin-Klik |
| 24 | 139-8692 | 1 | Bin-Storage |
| 25 | 144-9882 | 1 | Bin Bracket ASM |
| 26 | 3234-47 | 4 | Screw-HHF |
| 28 | 93-9084 | 2 | Decal-Point, Lift |
| 29 | 2412-112 | 1 | Clamp-R |
| 30 | 3234-11 | 1 | Screw-HHF |

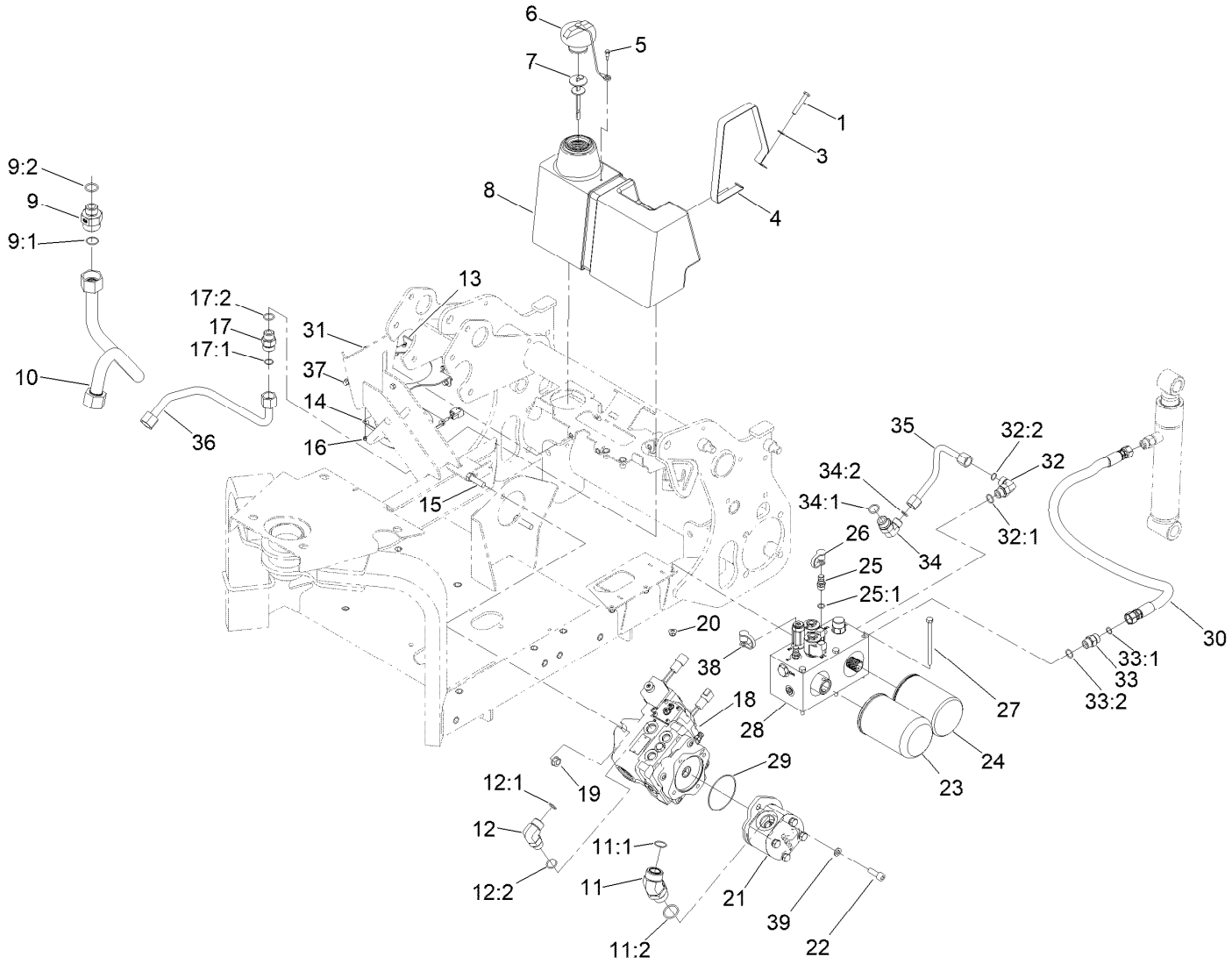



# Hydraulic Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 120-6000 | 1 | Bolt-TAP, HH |
| 3 | 3256-23 | 1 | Washer-Plain |
| 4 | 94-4642-03 | 1 | Strap-Tank, HYD |
| 5 | 57-5420 | 1 | Screw-Shoulder |
| 6 | 93-7160 | 1 | Cap-Oil, HYD |
| 7 | 106-8811 | 1 | Dipstick ASM |
| 8 | 127-4162 | 1 | Reservoir-Oil, HYD |
| 9 | 87-7290 | 1 | Fitting-STR |
| 9:1 | 340-65 | 1 | O-Ring |
| 9:2 | 237-81 | 1 | O-Ring |
| 10 | 139-8649 | 1 | Hydraulic Tube ASM |
| 11 | 104-3509 | 1 | Fitting-HYD, 45 DEG |
| 11:1 | 237-146 | 1 | O-Ring |
| 11:2 | 340-65 | 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 | 139-8634-03 | 1 | Bracket-Fan |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 14 | 139-8651 | 1 | Fan-Electric |
| 15 | 324-6 | 2 | Screw-HH |
| 16 | 3296-1 | 4 | Nut-Lock |
| 17 | 340-7 | 1 | Fitting-Straight |
| 17:1 | 237-65 | 1 | O-Ring |
| 17:2 | 237-80 | 1 | O-Ring |
| 18 | 140-8564 | 1 | Hydrostat |
| 19 | 32128-37 | 2 | Nut-HF |
| 20 | 104-8300 | 3 | Nut-HF, NI |
| 21 | 140-8836 | 1 | Pump-Gear |
| 22 | AU862-10030 | 2 | Screw-HSH |
| 23 | 75-1310 | 1 | Filter-HYD |
| 24 | 107-9531 | 1 | Filter-Oil, HYD |
| 25 | 59-7410 | 2 | Fitting-Diagnostic |
| 25:1 | 237-42 | 1 | O-Ring |
| 26 | 354-79 | 1 | Cap-Dust |
| 27 | 322-38 | 3 | Screw-HH |
| 28 | 140-8614 | 1 | Manifold |

● Not illustrated

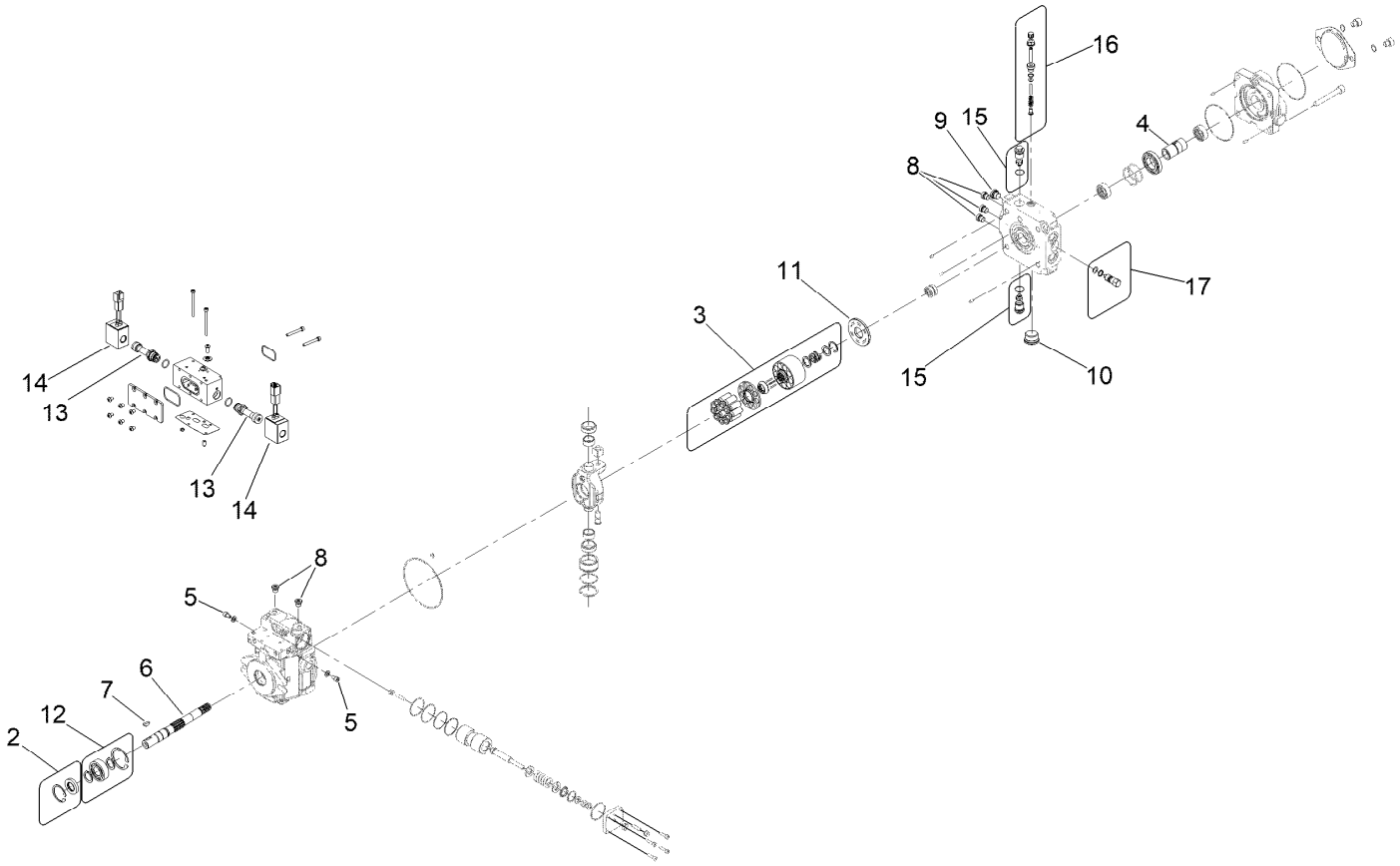



# Hydraulic Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 29 | 353-949 | 1 | O-Ring |
| 30 | 95-5985 | 1 | Hose-HYD |
| 31 | 3250-26 | 4 | Screw-PPH |
| 32 | 340-98 | 1 | Fitting-Elbow, 90 DEG |
| 32:1 | 237-79 | 1 | O-Ring |
| 32:2 | 237-30 | 1 | O-Ring |
| 33 | 340-4 | 1 | Fitting-Straight |
| 33:1 | 237-30 | 1 | O-Ring |
| 33:2 | 237-79 | 1 | O-Ring |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 34 | 340-105 | 1 | Fitting-Elbow, 90 DEG |
| 34:1 | 237-80 | 1 | O-Ring |
| 34:2 | 237-30 | 1 | O-Ring |
| 35 | 140-8864 | 1 | Hydraulic Tube ASM |
| 36 | 144-9876 | 1 | Hydraulic Tube ASM |
| 37 | 137-3111 | 4 | Screw-HHF |
| 38 | 353-947 | 1 | Cap-Dust, Black |
| 39 | 33095-00 | 2 | Washer-Flat |
| 99 | 505-180 | 12 | Oil-HYD, Toro Px ● |

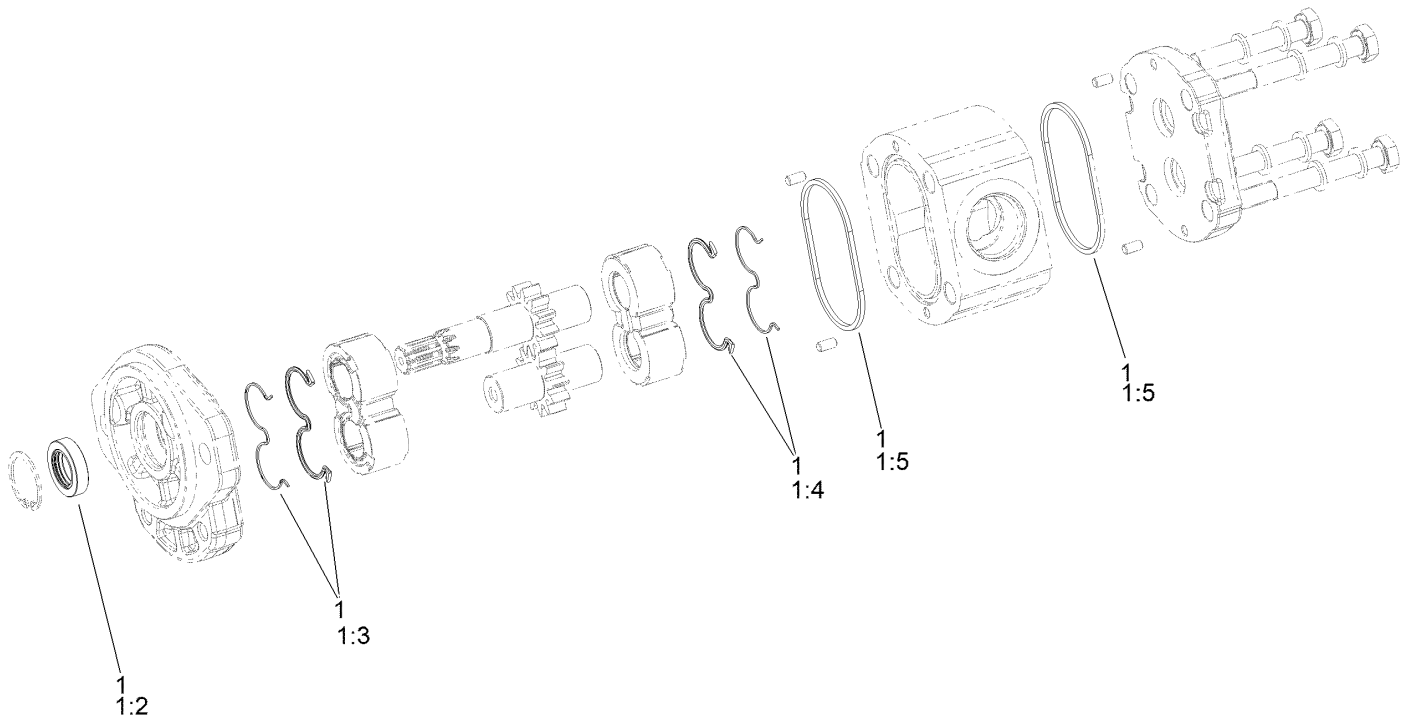
● Not illustrated




# Hydrostat Assembly No. 140-8564

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 139-8742 | 1 | Seal Kit ● |
| 2 | 132-6045 | 1 | Shaft Seal Kit |
| 3 | 132-6048 | 1 | Rotating Group Kit |
| 4 | 139-8670 | 1 | Coupling |
| 5 | 139-8671 | 2 | Screw |
| 6 | 139-8672 | 1 | Driveshaft-Pump |
| 7 | 139-8673 | 1 | Key |
| 8 | 139-8674 | 3 | Plug |
| 9 | 139-8675 | 1 | Plug |
| 10 | 139-8676 | 1 | Plug |
| 11 | 139-8677 | 1 | Valveplate |
| 12 | 139-8680 | 1 | Driveshaft Bearing Kit |
| 13 | 139-8681 | 2 | Control Valve |
| 14 | 139-8682 | 2 | Coil-Control Valve |
| 15 | 139-8684 | 2 | Main Relief Valve |
| 16 | 139-8685 | 1 | Charge Relief Valve |
| 17 | 139-8686 | 1 | Bypass Valve Kit |

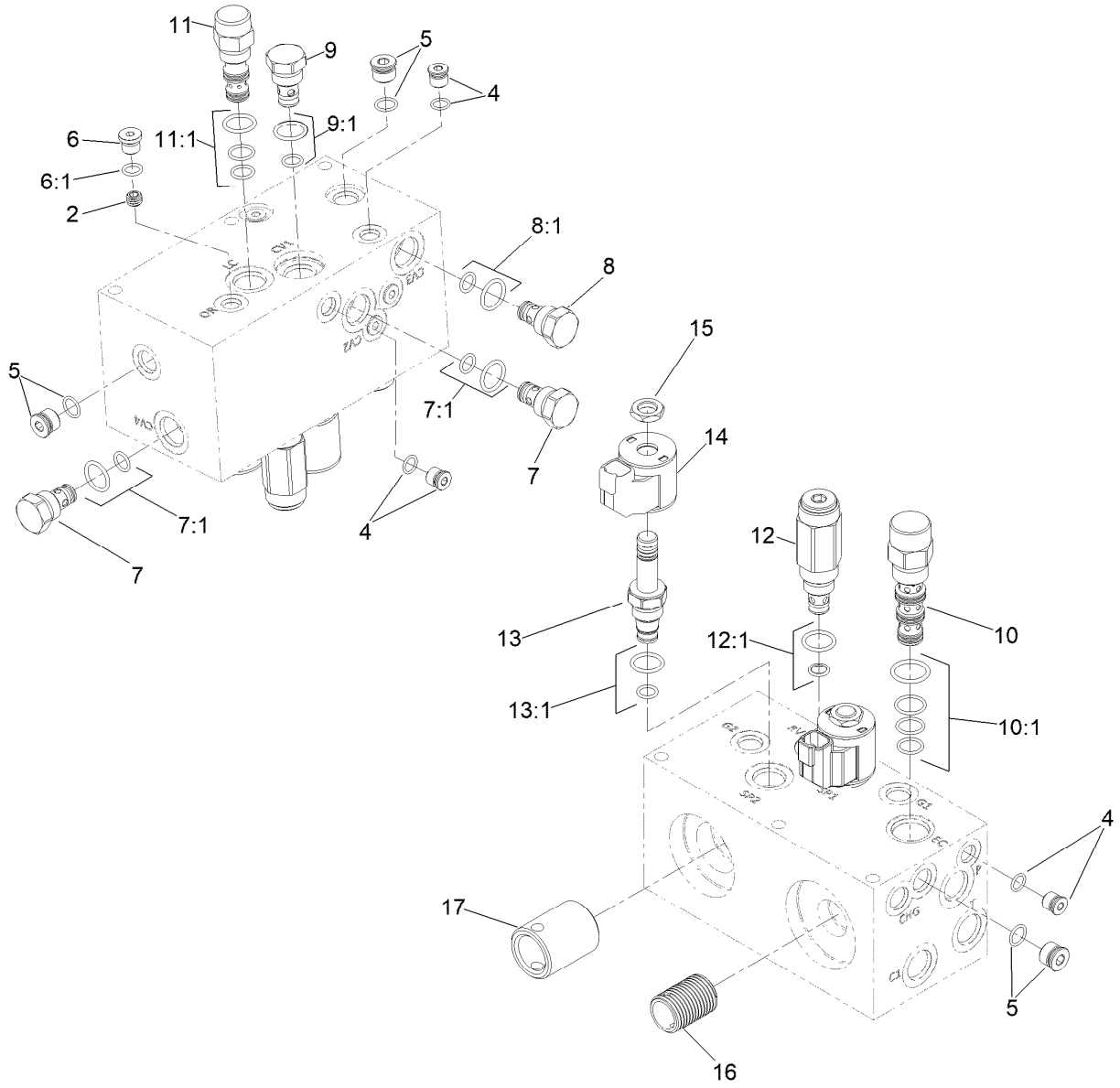
● Not illustrated




# Gear Pump Assembly No. 140-8836

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 119-7135 | 1 | Kit-Seal |
| 1:2 | | 1 | Shaft Seal ● |
| 1:3 | | 2 | Anti-Extrusion Seal ● |
| 1:4 | | 2 | Seal ● |
| 1:5 | | 2 | Seal Square Section ● |

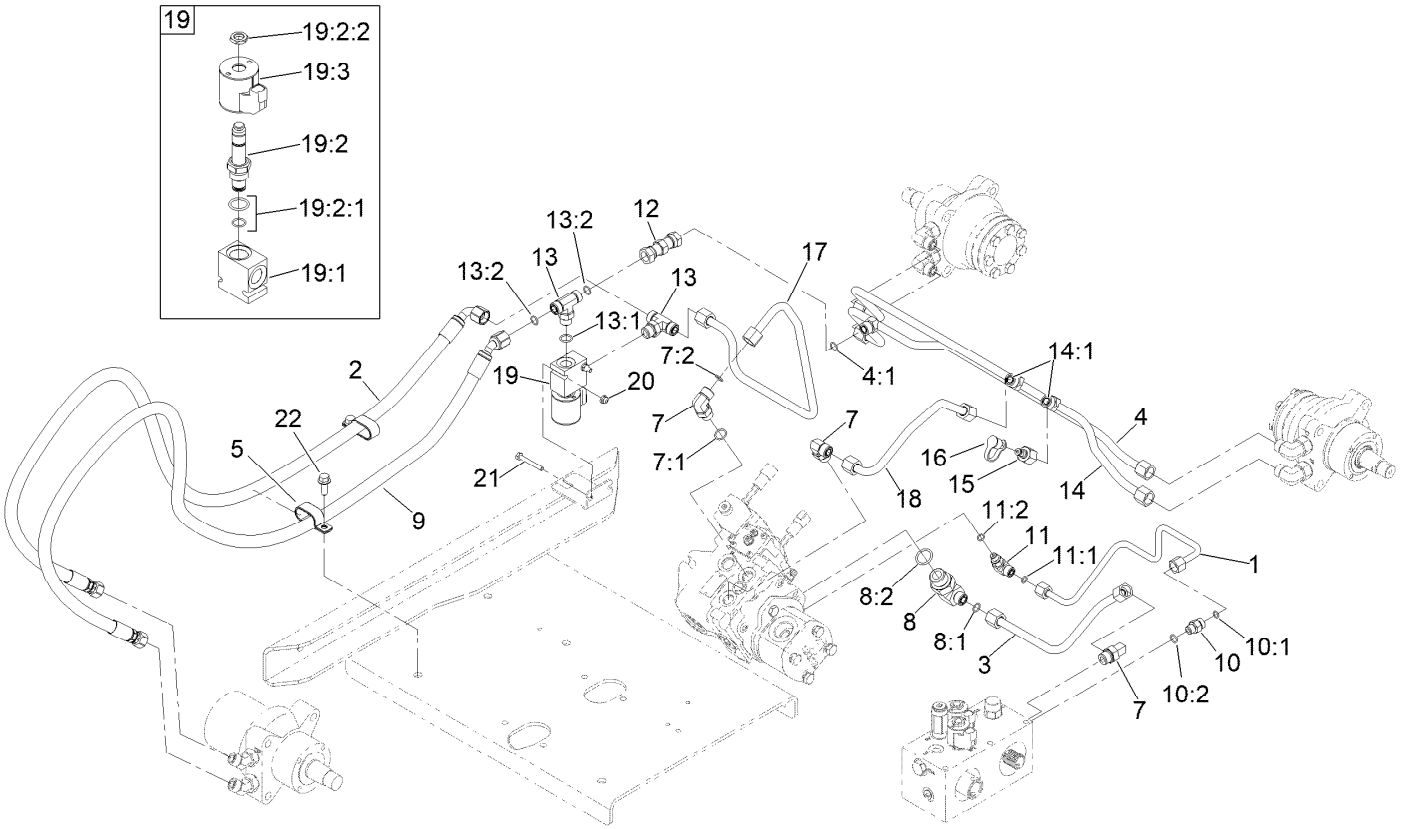
● Not serviced separately




# Manifold Assembly No. 140-8614

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 2 | 110-0495 | 1 | Plug-Orifice (0.050 Inch) |
| 4 | 112-9212 | 6 | Plug |
| 5 | 112-9213 | 3 | Plug |
| 6 | 139-8642 | 1 | Plug-Socket, SAE |
| 6:1 | 139-8643 | 1 | Seal Kit |
| 7 | 107-7524 | 2 | Check Valve ASM |
| 7:1 | 105-9156 | 1 | Seal Kit |
| 8 | 139-1213 | 1 | Valve-Check |
| 8:1 | 105-9156 | 1 | Seal Kit |
| 9 | 105-9321 | 1 | Check Valve ASM |
| 9:1 | 105-9156 | 1 | Seal Kit |
| 10 | 139-8632 | 1 | Spool Valve |

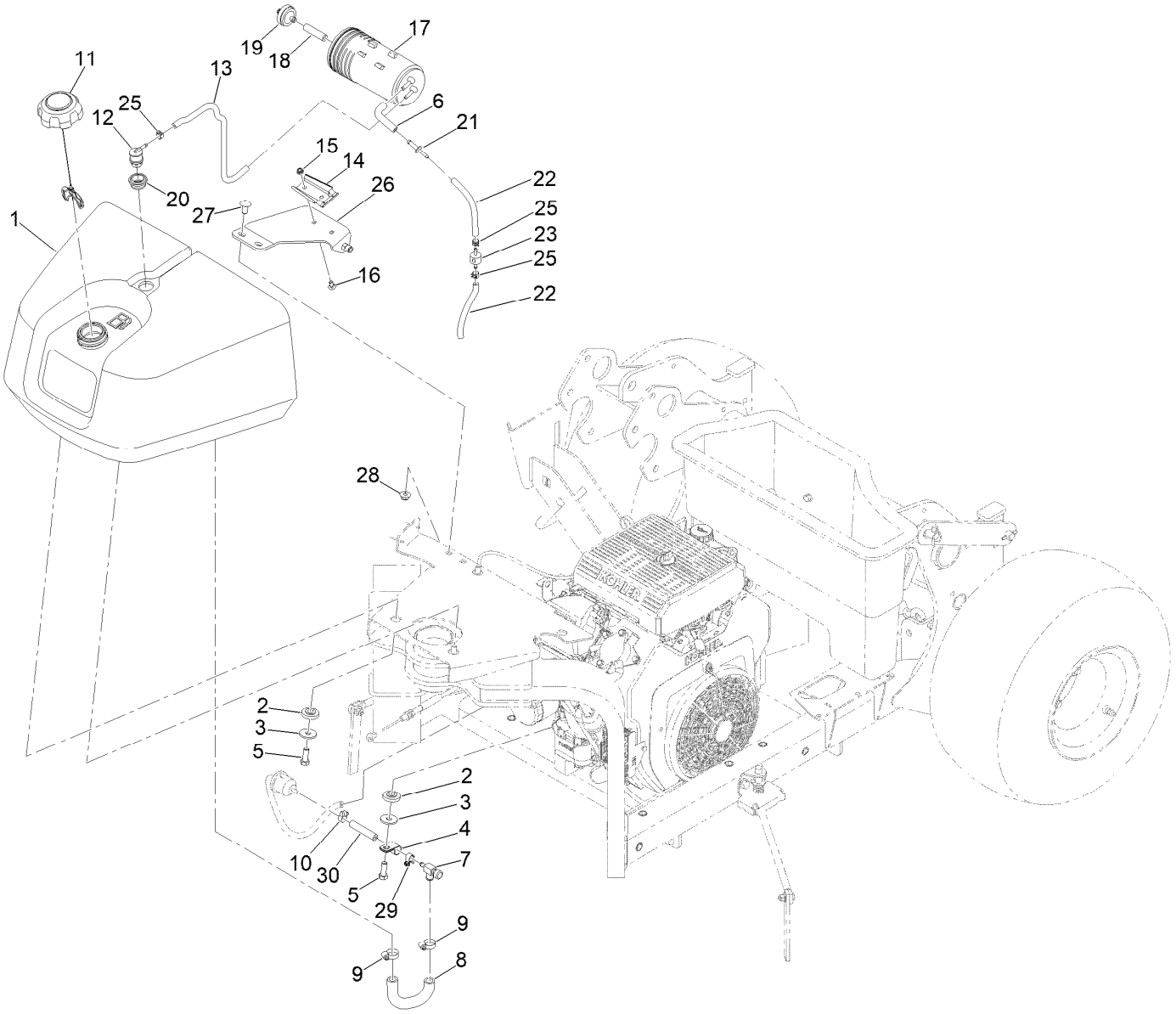
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 10:1 | 110-8908 | 1 | Spool Valve Seal Kit |
| 11 | 139-8631 | 1 | Pilot Logic Element |
| 11:1 | 110-8773 | 1 | Seal Kit |
| 12 | 139-8630 | 1 | Valve-Relief |
| 12:1 | 105-9156 | 1 | Seal Kit |
| 13 | 139-8629 | 2 | Valve-Electro Proportional |
| 13:1 | 105-9156 | 1 | Seal Kit |
| 14 | 112-0197 | 2 | E Coil-12V DC |
| 15 | 110-2634 | 2 | Nut-Coil |
| 16 | 139-8633 | 1 | Nipple-Filter |
| 17 | 125-7551 | 1 | Nipple-Filter |




# Hydraulic Hose and Tube Assembly

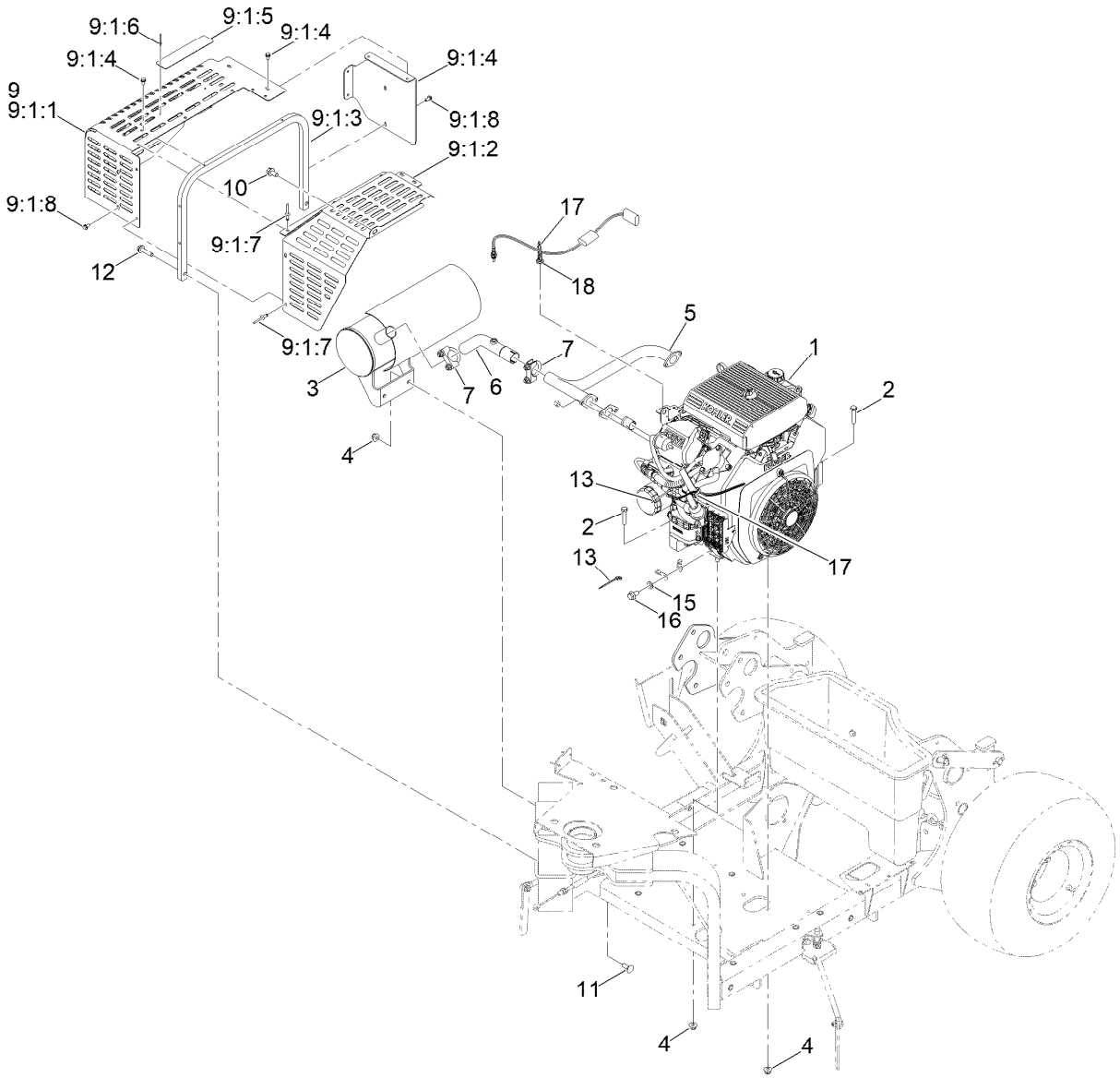
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 140-8866 | 1 | Hydraulic Tube ASM |
| 2 | 161-6964 | 1 | Hydraulic Hose ASM |
| 3 | 140-8865 | 1 | Hydraulic Tube ASM |
| 4 | 106-8818 | 1 | Tube ASM |
| 4:1 | 237-30 | 1 | O-Ring |
| 5 | 106-8829 | 2 | R Clamp-Double |
| 7 | 340-98 | 3 | Fitting-Elbow, 90 DEG |
| 7:1 | 237-79 | 1 | O-Ring |
| 7:2 | 237-30 | 1 | O-Ring |
| 8 | 340-105 | 1 | Fitting-Elbow, 90 DEG |
| 8:1 | 237-80 | 1 | O-Ring |
| 8:2 | 237-30 | 1 | O-Ring |
| 9 | 161-6965 | 1 | Hydraulic Hose ASM |
| 10 | 340-2 | 1 | Fitting-Straight |
| 10:1 | 237-22 | 1 | O-Ring |
| 10:2 | 237-42 | 1 | O-Ring |
| 11 | 340-97 | 1 | Fitting-Elbow, 90 DEG |
| 11:1 | 237-22 | 1 | O-Ring |
| 11:2 | 237-78 | 1 | O-Ring |
| 12 | 115-9036 | 1 | Fitting-Straight Union |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 13 | 340-157 | 2 | Fitting-HYD, Tee |
| 13:1 | 237-79 | 1 | O-Ring |
| 13:2 | 237-30 | 2 | O-Ring |
| 14 | 140-8855 | 1 | Hydraulic Tube ASM |
| 14:1 | 237-30 | 2 | O-Ring |
| 15 | 100-5616 | 1 | Fitting |
| 16 | 354-79 | 1 | Cap-Dust |
| 17 | 140-8862 | 1 | Hydraulic Tube ASM |
| 18 | 144-9803 | 1 | Hydraulic Tube ASM |
| 19 | 140-8867 | 1 | Manifold-Traction |
| 19:1 | T56054034 | 1 | Body-Valve, Hydraulic |
| 19:2 | T56054036 | 1 | Valve-HYD, Solenoid (W/O Coil) |
| 19:2:1 | 110-2633 | 1 | Seal Kit |
| 19:2:2 | 110-2634 | 1 | Nut-Coil |
| 19:3 | 119-4619 | 1 | Coil-Solenoid |
| 20 | 104-7201 | 2 | Nut-HF, NI |
| 21 | 321-11 | 2 | Screw-HH |
| 22 | 3234-11 | 2 | Screw-HHF |




# Fuel System Assembly

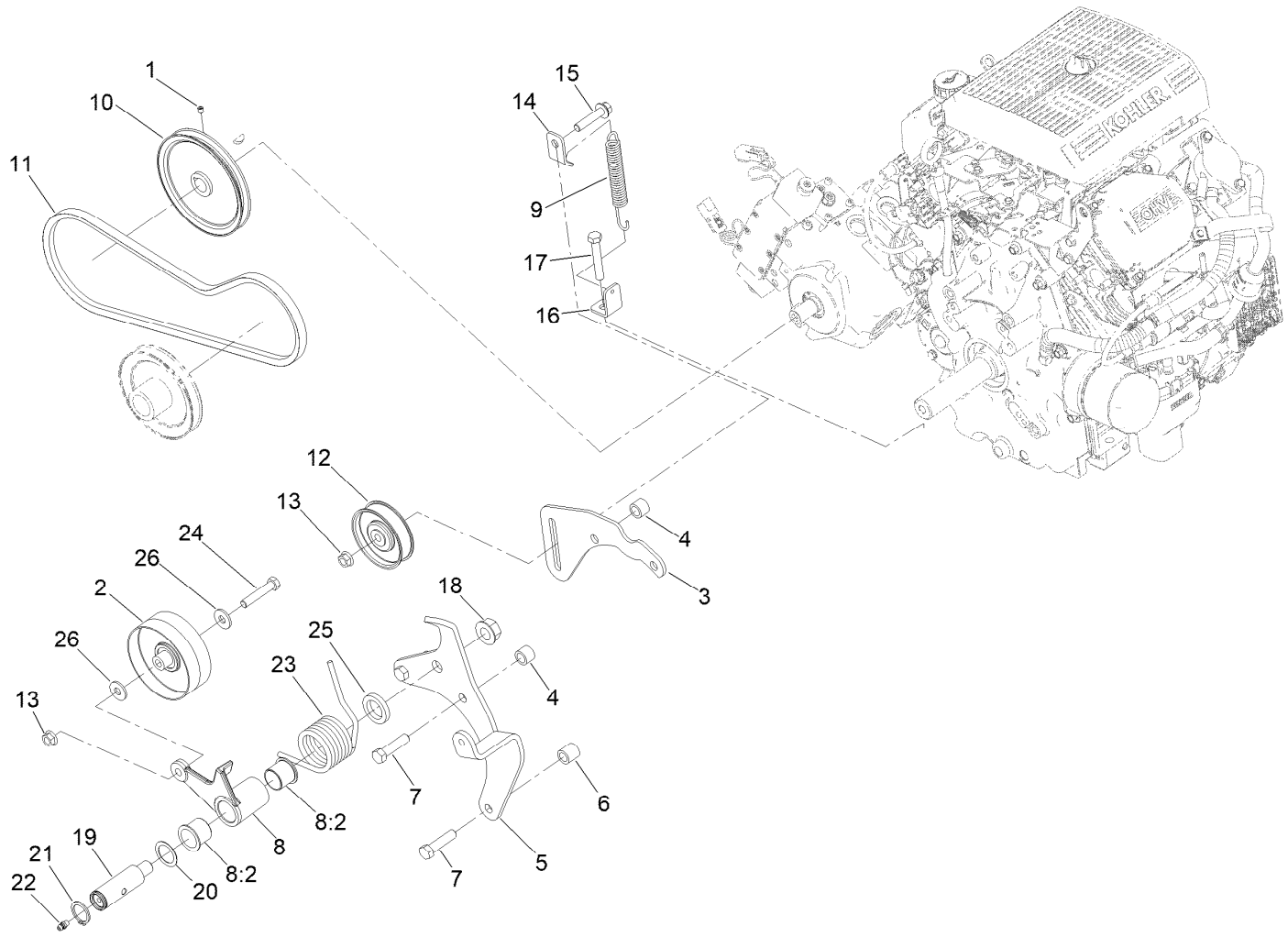
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 115-5387 | 1 | Tank-Fuel |
| 2 | 240-11 | 4 | Bushing-Flange |
| 3 | 63-8410 | 4 | Washer |
| 4 | 2412-41 | 1 | Clamp-R |
| 5 | 323-6 | 4 | Screw-HH |
| 6 | 114-3765 | 1 | Hose-Fuel |
| 7 | 83-1390 | 1 | Valve-Shut-Off, Fuel |
| 8 | 108-6818 | 1 | Hose-Fuel, Molded |
| 9 | 2412-36 | 2 | Clamp-Hose |
| 10 | 2412-108 | 1 | Clamp-Worm |
| 11 | 137-4127 | 1 | Cap-Fuel |
| 12 | 114-0285 | 1 | Valve-Rollover |
| 13 | 115-4735 | 1 | Hose-Fuel |
| 14 | 114-0292 | 1 | Bracket-Canister, Carbon |
| 15 | 3296-56 | 2 | Nut-Lock, NI |
| 16 | 3229-10 | 2 | Screw-CARR |
| 17 | 117-1221 | 1 | Canister-Carbon, 800Cc |
| 18 | 99-9415 | 1 | Hose-Fuel |
| 19 | 115-7854 | 1 | Filter-Fuel, Inline |
| 20 | 114-0284 | 1 | Grommet |
| 21 | 121-0743 | 1 | Adapter-Orifice |
| 22 | 75-4705 | 2 | Hose-Fuel |
| 23 | 133-8499 | 1 | Valve-Check, Vacuum |
| 25 | 2412-146 | 3 | Clamp-Hose |
| 26 | 161-6960 | 1 | Canister Bracket ASM |
| 27 | 3234-1 | 2 | Screw-HHF |
| 28 | 119-4042 | 2 | Nut-HF, NI |
| 29 | 145-4564 | 1 | Clamp-Band, Screw |
| 30 | 109-0304 | 1 | Hose-Fuel |




# Engine and Muffler Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 163-6635 | 1 | Engine-Rehlko |
| 2 | 323-9 | 4 | Screw-HH |
| 3 | 139-8763 | 1 | Muffler - Exhaust |
| 4 | 119-4042 | 6 | Nut-HF, NI |
| 5 | 106-8858 | 1 | Manifold-Exhaust |
| 6 | 161-6962 | 1 | Tube-Elbow, Exhaust |
| 7 | 104-4090 | 2 | Clamp-Muffler |
| 9 | 107-7546SP | 1 | Shield ASM |
| 9:1:1 | 106-8903-01 | 1 | Shield-Muffler |
| 9:1:2 | 106-8904-03 | 1 | Shield-Clutch |
| 9:1:3 | 106-8848-01 | 1 | Tube-Shield, Muffler |
| 9:1:4 | 106-8906-01 | 1 | Bracket-Shield, Muffler |
| 9:1:5 | 140-8962 | 1 | Artwork-Plate, Warning, Procore |

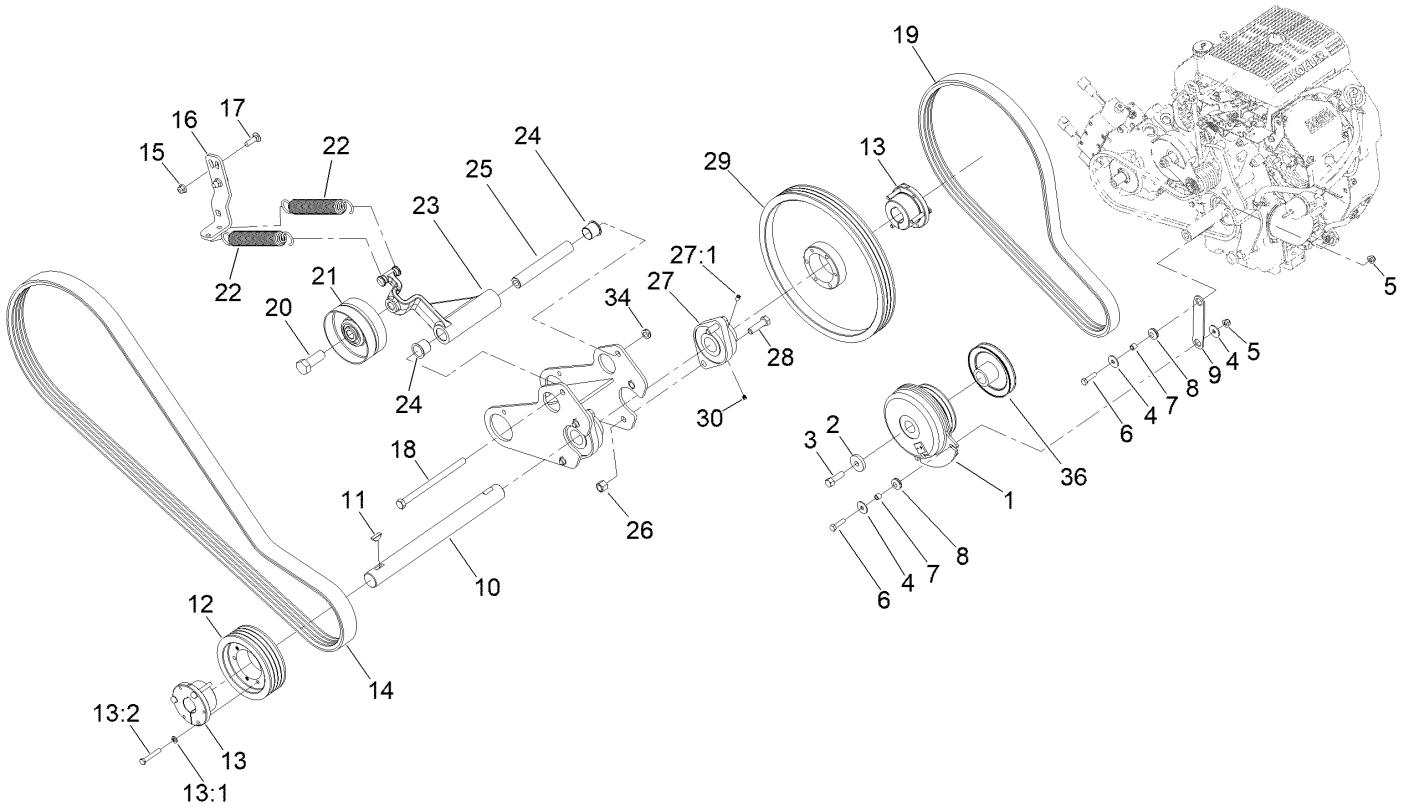
| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 9:1:6 | 3269-32 | 2 | Rivet-Pop |
| 9:1:7 | 93-8744 | 7 | Rivet-Blind |
| 9:1:8 | 32144-4 | 10 | Screw-HWH |
| 10 | 3234-1 | 1 | Screw-HHF |
| 11 | 3231-2 | 2 | Bolt-CARR |
| 12 | 3234-18 | 2 | Screw-HHF |
| 13 | 3290-381 | 2 | Tie-Cable |
| 15 | 33095-00 | 1 | Washer-Flat |
| 16 | 33105-020 | 1 | Screw-HHF |
| 17 | 3290-378 | 2 | Tie-Cable |
| 18 | 32180-139 | 1 | Mount-Tie Wrap, Magnetic |




# Idler, Pulley and Belt Assembly

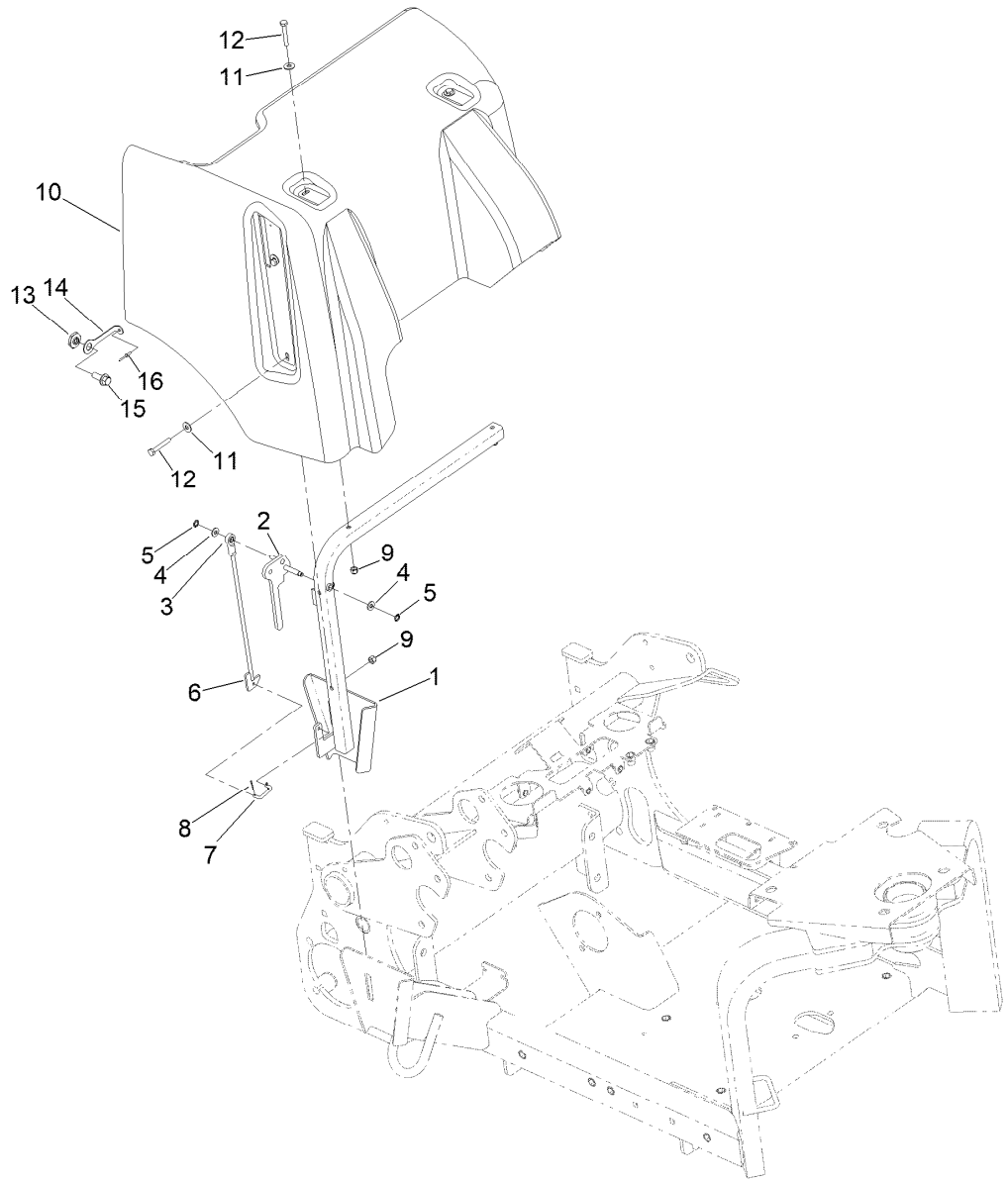
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 3245-7 | 2 | Screw-Set |
| 2 | 139-6031 | 1 | Pulley-Idler |
| 3 | 105-1085-03 | 1 | Support-Idler |
| 4 | 68-5440 | 2 | Spacer |
| 5 | 115-4724-03 | 1 | Bracket-Mounting, Idler |
| 6 | 105-0985 | 1 | Spacer-Support, Idler |
| 7 | 324-7 | 3 | Screw-HH |
| 8 | 137-1653 | 1 | Idler Arm ASM |
| 8:2 | 126-1963 | 2 | Bushing-Pivot |
| 9 | 106-4502 | 1 | Spring-Scraper |
| 10 | 137-6686 | 1 | Pulley |
| 11 | 107-7513 | 1 | V-Belt |
| 12 | 112426 | 1 | Pulley-Idler |
| 13 | 32128-21 | 2 | Nut-HF Lock |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 14 | 107-7588 | 1 | Bracket-Spring |
| 15 | 3234-19 | 1 | Screw-HHF |
| 16 | 107-7583 | 1 | Bracket-L |
| 17 | 104-3396 | 1 | Screw-HH |
| 18 | 32128-54 | 1 | Nut-HF |
| 19 | 99-3624 | 1 | Shaft-Pivot, Idler |
| 20 | 74-1810 | 1 | Washer |
| 21 | 32151-36 | 1 | Ring-Retaining |
| 22 | 302-5 | 1 | Fitting-Grease |
| 23 | 115-3488 | 1 | Spring-Torsion |
| 24 | 323-10 | 1 | Screw-HH |
| 25 | 99-3625 | 1 | Spacer-Arm, Idler |
| 26 | 80-6990 | 2 | Washer-Hardened |



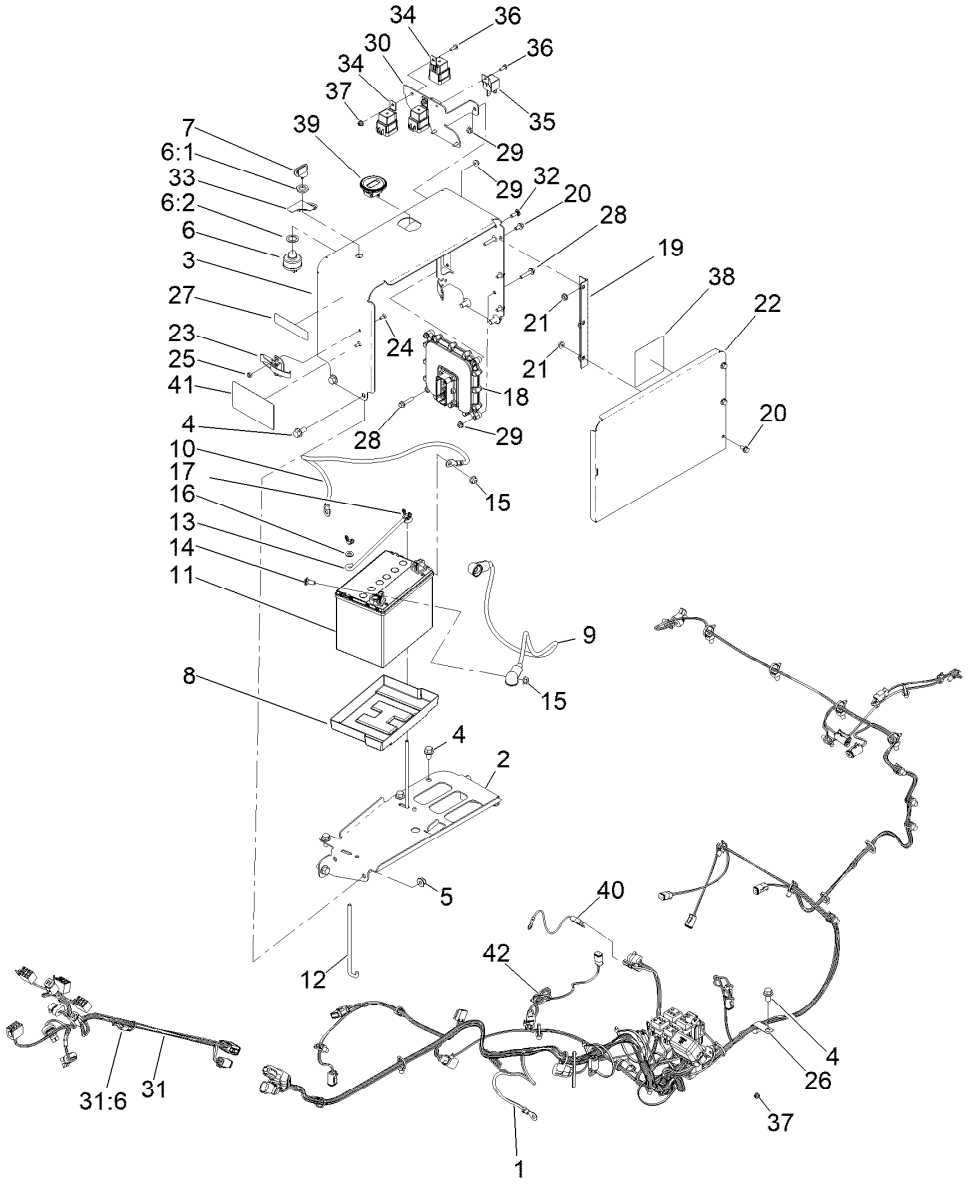

# Clutch Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 138-5986 | 1 | Clutch-Electric |
| 2 | 1-543610 | 1 | Washer-Flat |
| 3 | 26-0671 | 1 | Screw-HH |
| 4 | 3256-82 | 3 | Washer-Flat |
| 5 | 104-8300 | 2 | Nut-HF, NI |
| 6 | 322-6 | 2 | Screw-HH |
| 7 | 1-633545 | 2 | Spacer |
| 8 | 1-633630 | 2 | Grommet |
| 9 | 107-3382 | 1 | Strap-Clutch |
| 10 | 105-0975 | 1 | Jackshaft |
| 11 | 3257-42 | 2 | Key-Woodruff |
| 12 | 140-8880 | 1 | Pulley-3V, 4 Groove |
| 13 | 59-3790 | 2 | Bushing-Lock, Taper |
| 13:1 | 3253-4 | 3 | Washer-Lock |
| 13:2 | 120-6000 | 3 | Bolt-TAP, HH |
| 14 | 140-8882 | 1 | Belt-V, Banded |
| 15 | 104-8301 | 2 | Nut-HF, NI |
| 16 | 105-1118-03 | 1 | Arm-Spring, Idler |
| 17 | 3231-25 | 2 | Bolt-CARR |
| 18 | 325-36 | 1 | Screw-HH |
| 19 | 105-0989 | 1 | Belt-3V |
| 20 | 328-24 | 1 | Screw-HH |
| 21 | 100-7631 | 1 | Pulley-Idler |
| 22 | 106-8933 | 2 | Spring-Extension |
| 23 | 105-1132-03 | 1 | Arm-Idler |
| 24 | 126-1963 | 2 | Bushing-Pivot |
| 25 | 105-1172 | 1 | Tube-Pivot, Idler |
| 26 | 3296-23 | 4 | Nut-Lock, NI |
| 27 | 105-0962 | 2 | Bearing-Mount, Flange |
| 27:1 | 3246-17 | 1 | Setscrew-HSH |
| 28 | 325-7 | 4 | Screw-HH |
| 29 | 105-0977 | 1 | Pulley-3V |
| 30 | 302-59 | 2 | Plug-EXT Hex Spl |
| 34 | 3296-45 | 1 | Nut-Hex |
| 36 | 107-3379 | 1 | Pulley |




# Hood Assembly

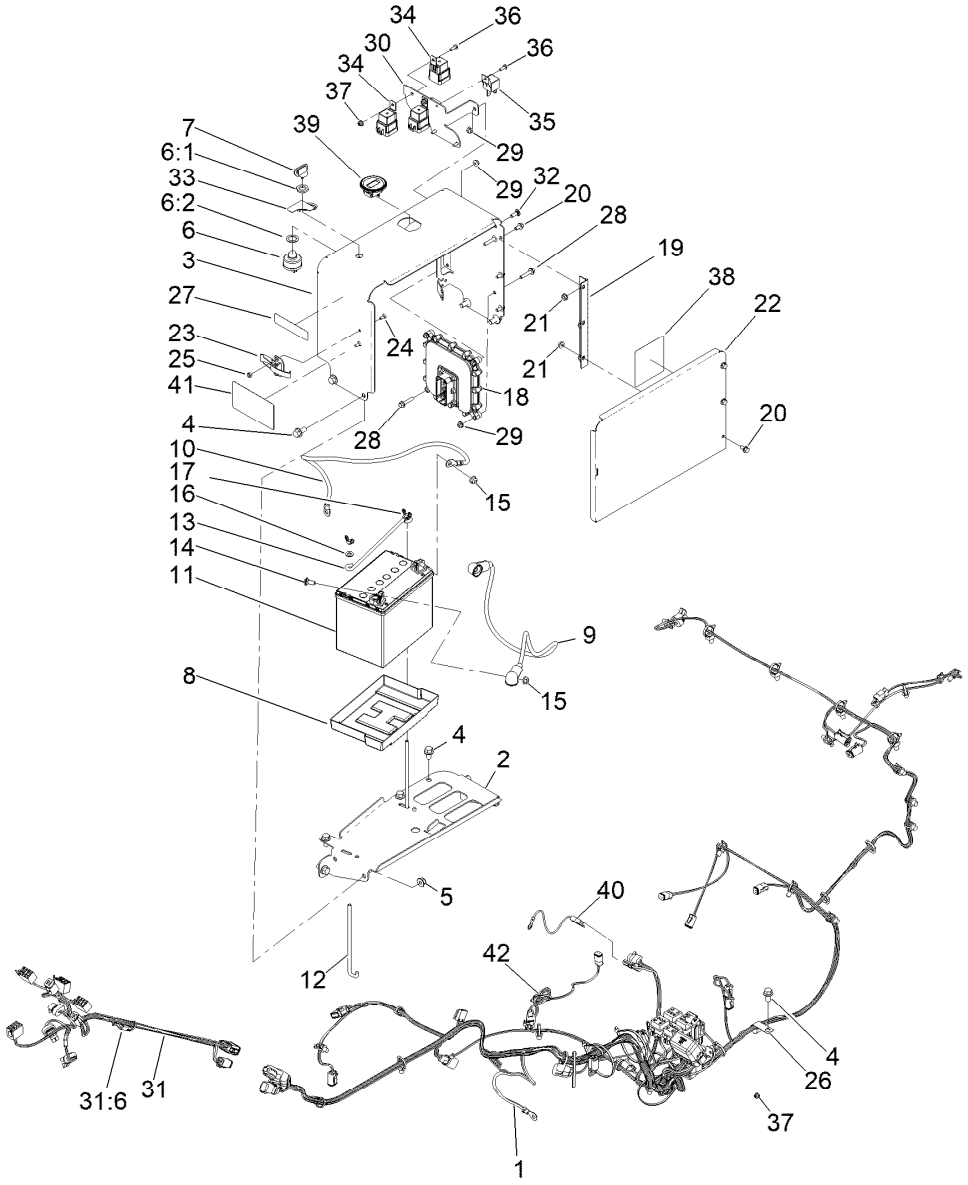
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 106-8846-03 | 1 | Frame-Hood |
| 2 | 115-4737-03 | 1 | Lever-Hood |
| 3 | 2411-41 | 1 | Rod End-Ball Joint |
| 4 | 3256-22 | 2 | Washer-Flat |
| 5 | 104-8310 | 2 | Ring-Retaining |
| 6 | 106-8928 | 1 | Hook ASM |
| 7 | 69-9140 | 1 | Link-Lever, Valve |
| 8 | 3272-1 | 2 | Pin-Cotter |
| 9 | 3296-42 | 4 | Nut-Lock, NI |
| 10 | 140-8780 | 1 | Hood-Front |
| 11 | 100-2400 | 4 | Washer |
| 12 | 321-10 | 4 | Screw-HH |
| 13 | 117-8347 | 1 | Nut-Shoulder |
| 14 | 117-8339 | 1 | Lanyard-3 Inch |
| 15 | 3234-42 | 1 | Screw-HHF |
| 16 | 3290-55 | 1 | Rivet-Pop |




# Electrical Assembly

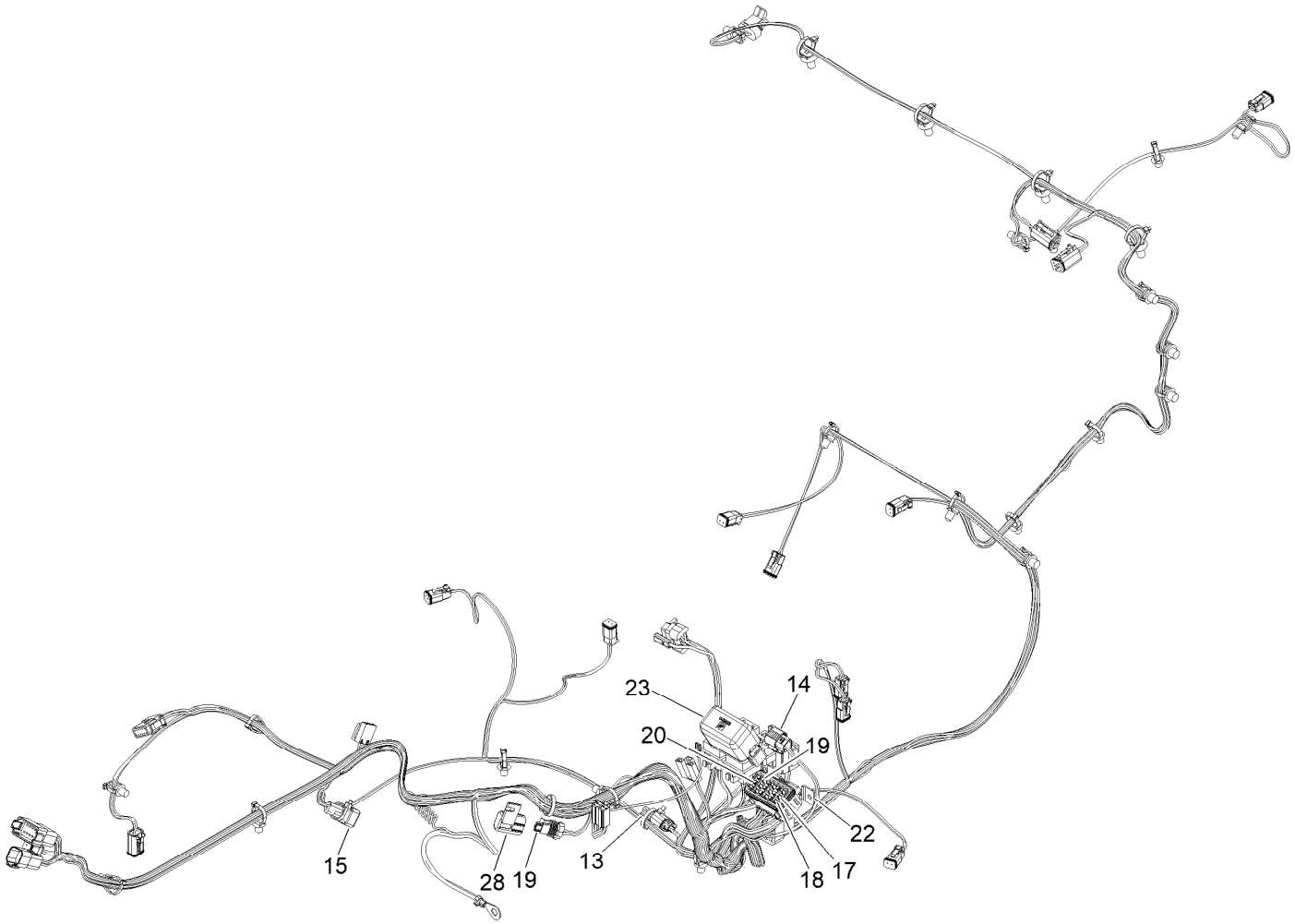
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 122-3753 | 1 | Harness-Wire, Pc648 Main |
| 2 | 140-8845-01 | 1 | Base-Battery |
| 3 | 140-8621-01 | 1 | Console |
| 4 | 3234-1 | 10 | Screw-HHF |
| 5 | 104-8301 | 4 | Nut-HF, NI |
| 6 | 83-0020 | 1 | Switch-Ignition |
| 6:1 | 218-461 | 1 | Nut-HH |
| 6:2 | 3254-5 | 1 | Washer-Lock |
| 7 | 63-8360 | 1 | Key-Ignition |
| 8 | 106948 | 1 | Tray-Battery |
| 9 | 106-8945 | 1 | Cable-Battery, Positive |
| 10 | 106-8946 | 1 | Cable-Battery, Negative |
| 11 | 99-7421 | 1 | Battery- Wet, 12V, 300 CCA |
| 12 | 100-6435 | 2 | Post-Battery |
| 13 | 100-6434 | 1 | Rod-Hold Down, Battery |
| 14 | 3230-1 | 2 | Bolt-CARR |
| 15 | 104-8300 | 2 | Nut-HF, NI |
| 16 | 3256-23 | 2 | Washer-Plain |
| 17 | 1-543792 | 2 | Wingnut |
| 18 | 127-2770 | 1 | Controller |
| 19 | 106-8908 | 1 | Hinge-Console |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 20 | 3234-13 | 6 | Screw-HHF |
| 21 | 32128-33 | 6 | Nut-HF |
| 22 | 140-8701-01 | 1 | Cover-Console |
| 23 | 249-21 | 1 | Clamp-Slotted |
| 24 | 104-1450 | 2 | Bolt-CARR |
| 25 | 3296-2 | 2 | Nut-Lock, NI |
| 26 | 2412-150 | 1 | Clip-J |
| 27 | 133-8062 | 1 | Decal-Spark Arrestor |
| 28 | 127-8639 | 4 | Screw-HHF |
| 29 | 104-7201 | 5 | Nut-HF, NI |
| 30 | 140-8754 | 1 | Brkt-Controls |
| 31 | 122-2170 | 1 | Harness-Wire, Pc648, Console |
| 31:6 | 32180-282 | 1 | Conn, Res, 120 Ohm |
| 32 | 1-807512 | 1 | Bolt-CARR |
| 33 | 130-7360 | 1 | Decal-Ignition |
| 34 | 99-7430 | 4 | Relay-Mini |
| 35 | 99-7435 | 1 | Relay |
| 36 | 32105-23 | 5 | Screw |
| 37 | 120-4578 | 5 | Nut-HF |
| 38 | 139-8740 | 1 | Decal-Fuse |




# Electrical Assembly (continued)

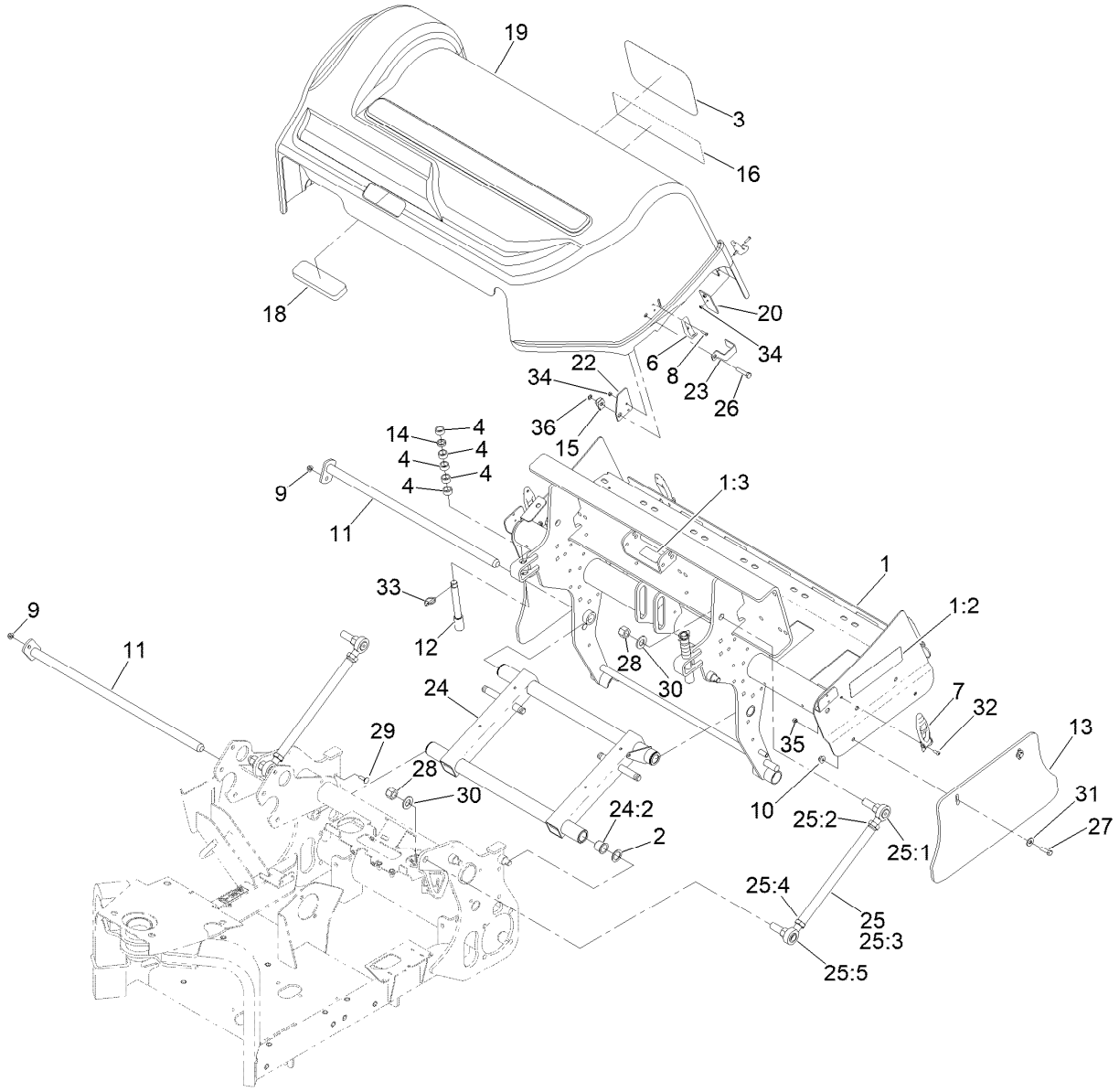
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 39 | 139-8764 | 1 | Tachometer-Inductive Round |
| 40 | 108-9455 | 1 | Harness-Wire, Fusible Link |
| 41 | 139-8653 | 1 | Decal -Service Instructions |
| 42 | 3290-379 | 7 | Tie-Cable |




# Wire Harness Assembly No. 122-3753

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 13 | 32180-282 | 1 | Conn, Res, 120 Ohm |
| 14 | 32180-089 | 1 | Cap-Plug, 3 Way |
| 15 | 100-4918 | 1 | Diode |
| 17 | 121-8861 | 1 | Fuse-Mini Blade, 2 Amp |
| 18 | 121-8865 | 3 | Fuse-Mini Blade, 7.5 Amp |
| 19 | 121-8866 | 5 | Fuse-Mini Blade, 10 Amp |
| 20 | 121-8868 | 1 | Fuse-Mini Blade, 20 Amp |
| 22 | 32180-221 | 1 | Bracket |
| 23 | 32180-220 | 1 | Cover |
| 25 | 32180-091 | 4 | Cap-Dust, 2 Way ● |
| 28 | 32180-101 | 1 | Cover-Fuse, Single |

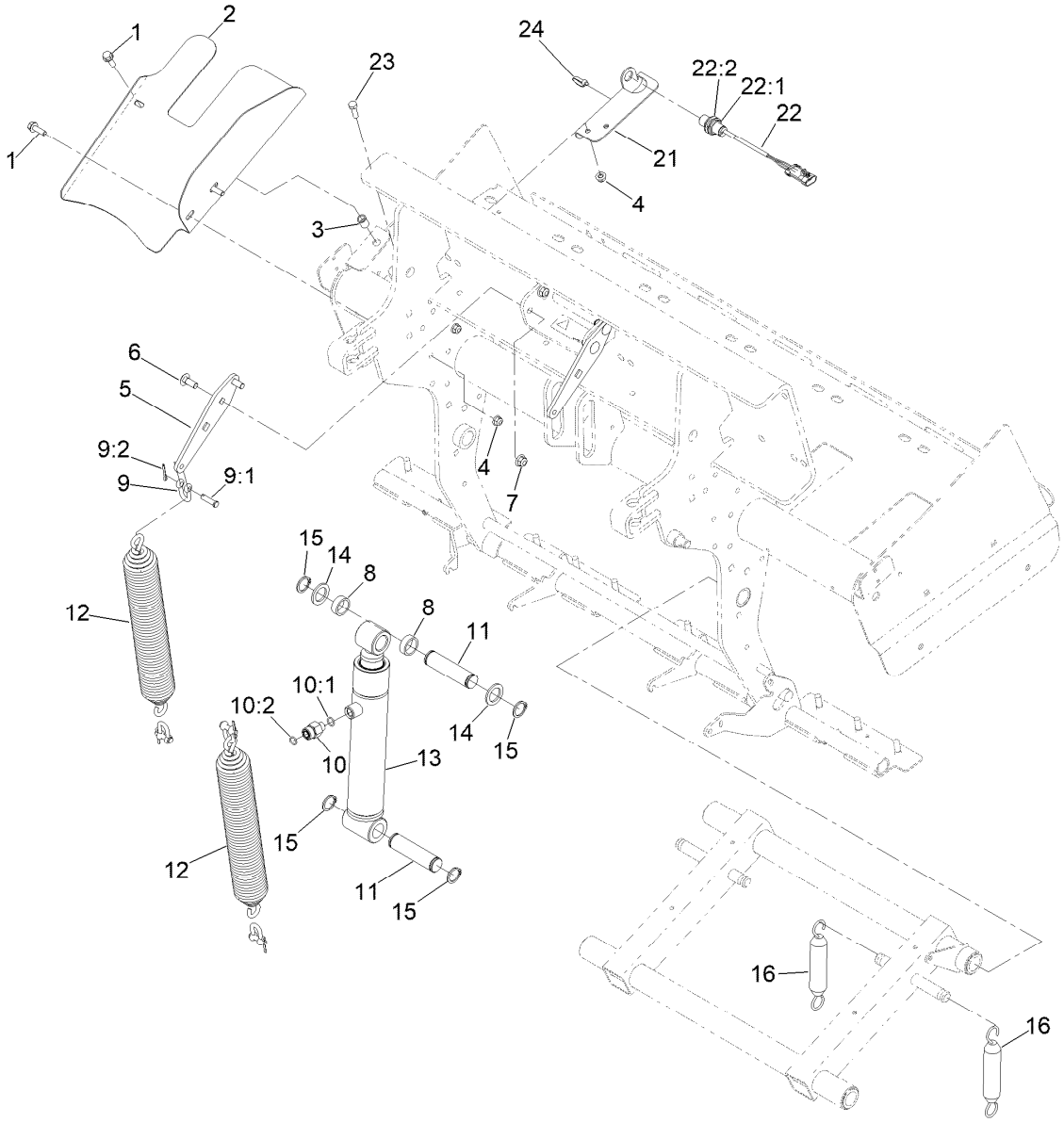
● Not illustrated




# Rear Frame and Hood Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 140-8571 | 1 | Rear Frame ASM |
| 1:2 | 140-8960 | 3 | Decal-Warning, Procore |
| 1:3 | 93-6696 | 1 | Decal-Warning |
| 2 | 10-8110 | 4 | Washer-Thrust |
| 3 | 67-7310 | 1 | Decal |
| 4 | 74-3730 | 10 | Spacer-Spindle, Rear |
| 6 | 103-2897 | 4 | Latch-Catch |
| 7 | 103-2898 | 4 | Latch-Rubber |
| 8 | 104-2408 | 8 | Screw-HSBH |
| 9 | 104-8300 | 2 | Nut-HF, NI |
| 10 | 104-8301 | 4 | Nut-HF, NI |
| 11 | 105-0950 | 2 | Pivot Shaft ASM |
| 12 | 105-1004 | 2 | Pin-Stop, Depth |
| 13 | 105-1069 | 2 | Shield-Side |
| 14 | 105-3828 | 2 | Spacer |
| 15 | 105-4886 | 2 | Nut-Tinnerman |
| 16 | 140-8964 | 1 | Decal-Procore 648S |
| 18 | 107-7507 | 3 | Pad-Foam |
| 19 | 144-9858 | 1 | Hood - Rear |
| 20 | 110-1499 | 2 | Plate-Reinforcement |
| 22 | 110-4672 | 2 | Plate-Reinforcement |

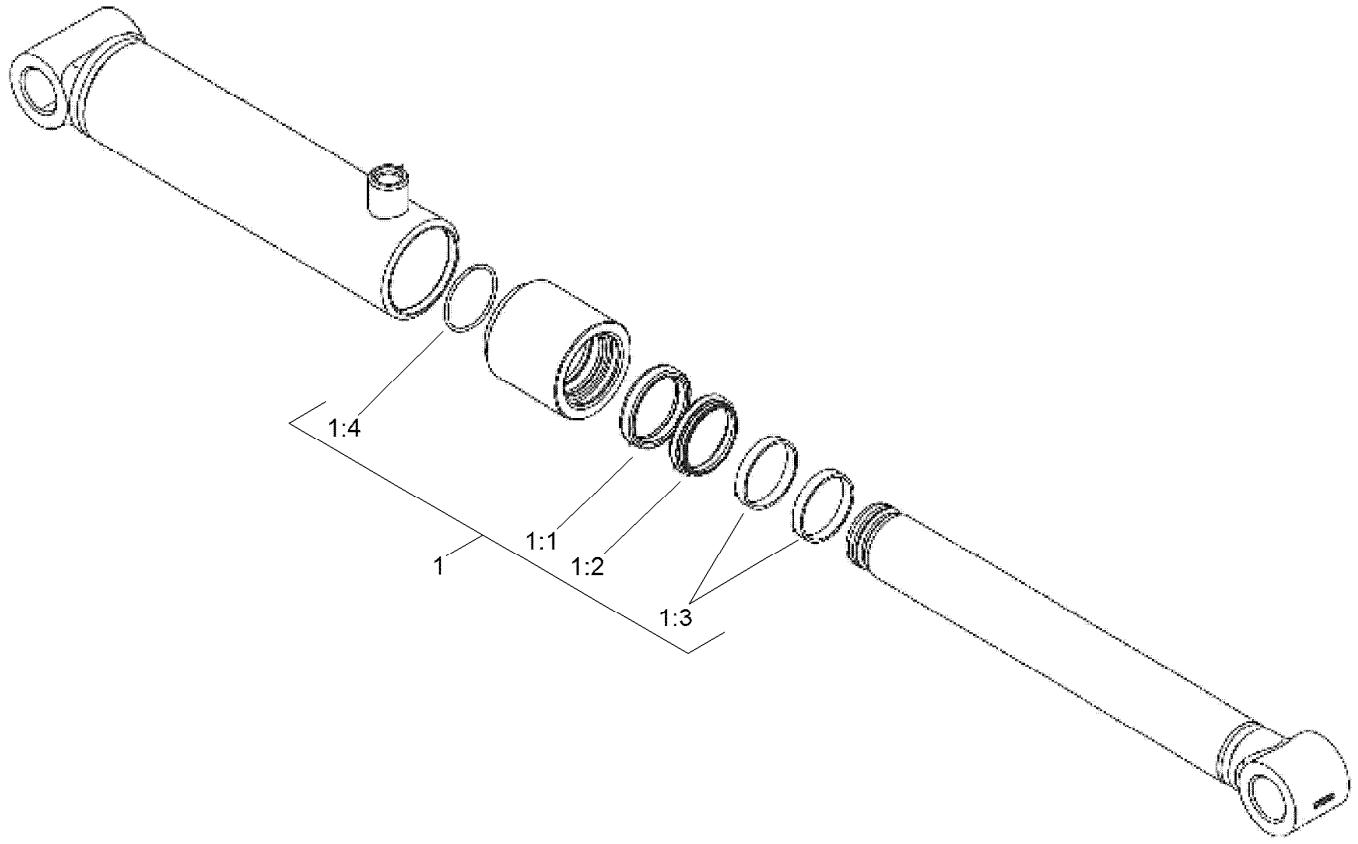
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 23 | 110-4673 | 2 | Lock-Latch, CE |
| 24 | 139-7991 | 1 | H-Frame ASM |
| 24:2 | 126-1963 | 4 | Bushing-Pivot |
| 25 | 114-2702 | 2 | Link ASM |
| 25:1 | 105-1025 | 1 | End-Rod |
| 25:2 | 3220-17 | 1 | Nut-Jam, LH |
| 25:3 | 105-1007 | 1 | Link-Upper |
| 25:4 | 3220-7 | 1 | Nut-Jam |
| 25:5 | 2411-40 | 1 | End-Rod |
| 26 | 323-53 | 2 | Screw-HH |
| 27 | 323-7 | 4 | Screw-HH |
| 28 | 3296-50 | 4 | Nut-Lock, NI |
| 29 | 3230-2 | 2 | Bolt-CARR |
| 30 | 92-5836 | 4 | Washer |
| 31 | 3256-4 | 4 | Washer-Flat |
| 32 | 3274-31 | 4 | Screw-HSBH |
| 33 | 3290-495 | 2 | Pin-Klik |
| 34 | 3296-2 | 8 | Nut-Lock, NI |
| 35 | 3296-42 | 4 | Nut-Lock, NI |
| 36 | 32151-72 | 2 | Ring-Retaining |




# Belt Shield Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 3234-17 | 3 | Screw-HHF |
| 2 | 105-1092-01 | 1 | Shield-Top, Belt |
| 3 | 32148-7 | 1 | Nut-Clinch |
| 4 | 104-8300 | 4 | Nut-HF, NI |
| 5 | 105-1190-01 | 2 | Plate-Tension, Spring |
| 6 | 3231-2 | 4 | Bolt-CARR |
| 7 | 104-8301 | 4 | Nut-HF, NI |
| 8 | 88-7530 | 2 | Spacer |
| 9 | 282-4 | 4 | Shackle |
| 9:1 | 283-6 | 1 | Pin-Clevis |
| 9:2 | 3272-11 | 1 | Pin-Cotter |
| 10 | 340-5 | 1 | Fitting-Straight |
| 10:1 | 237-42 | 1 | O-Ring |
| 10:2 | 237-30 | 1 | O-Ring |

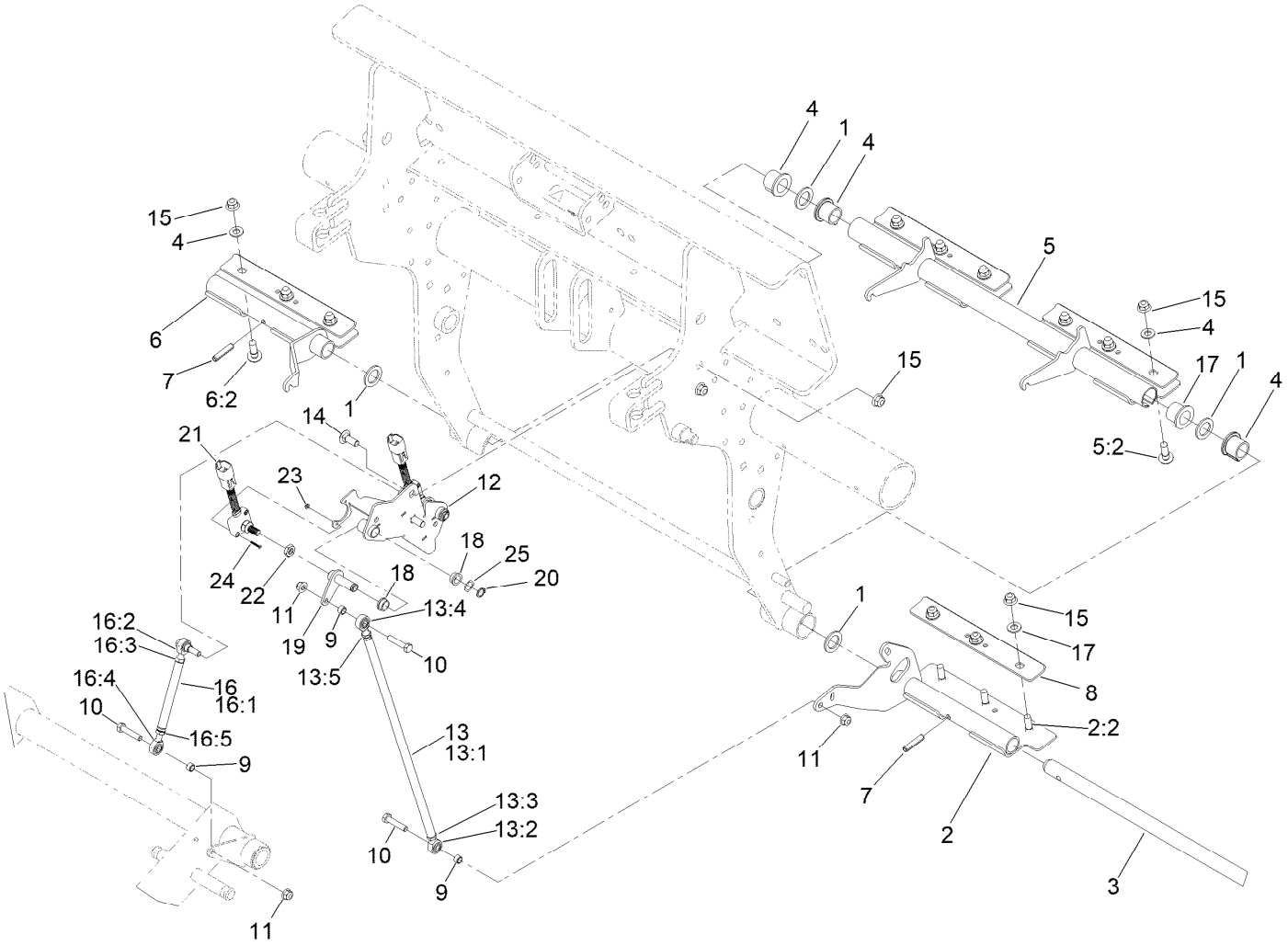
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 11 | 105-1031 | 2 | Pin-Cylinder |
| 12 | 105-1156-03 | 2 | Spring-Extention |
| 13 | 140-2205 | 1 | Cylinder-Hydraulic |
| 14 | 256-115 | 2 | Washer-Thrust |
| 15 | 32151-36 | 4 | Ring-Retaining |
| 16 | 66-4270 | 2 | Spring-Extension |
| 21 | 140-2277 | 1 | Bracket-Sensor |
| 22 | 115-0282 | 1 | Sensor, Proximity Sensor ASM |
| 22:1 | 117-3207 | 2 | Nut-Hex |
| 22:2 | 117-3208 | 2 | Washer-Lock, Internal Tooth |
| 23 | 322-5 | 2 | Screw-HH |
| 24 | 3290-378 | 1 | Tie-Cable |




# Hydraulic Cylinder Assembly No. 140-2205

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 140-2207 | 1 | Seal Kit |
| 1:1 | | 1 | Rod Seal ● |
| 1:2 | | 1 | Rod Wiper ● |
| 1:3 | | 2 | Wear Ring ● |
| 1:4 | | 1 | Wire Ring ● |

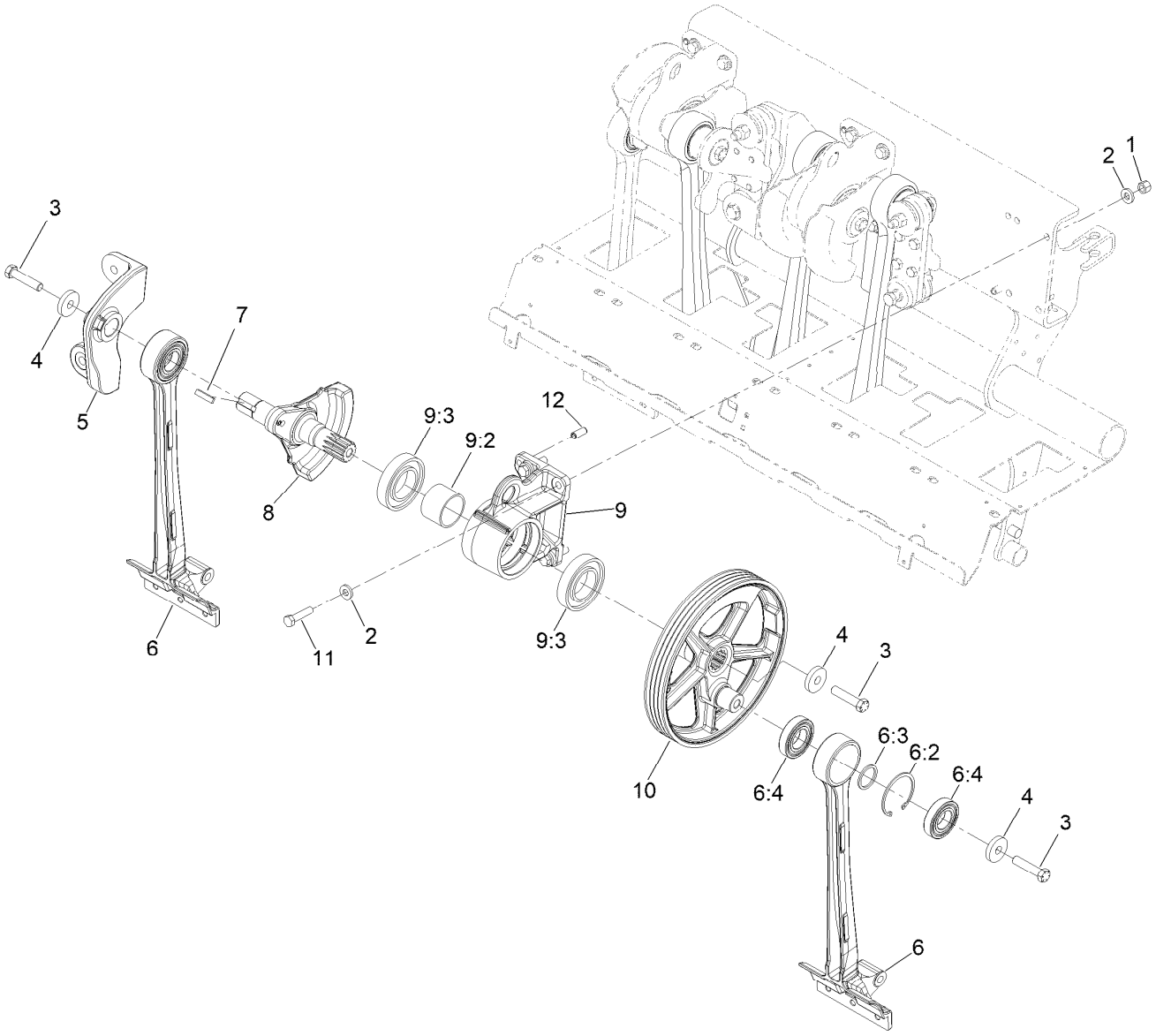
● Not serviced separately




# Turf Guard Mount Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 3-7898 | 4 | Washer-Thrust |
| 2 | 140-6451 | 1 | Bracket ASM-Turf Guard, LH |
| 2:2 | 125-3318 | 3 | Screw-Neck, Rib |
| 3 | 105-1024 | 1 | Shaft-Guard, Turf |
| 4 | 107-7581 | 4 | Bushing-Flange, Keyed |
| 5 | 140-6460 | 1 | Bracket ASM-Turf Guard, Center |
| 5:2 | 125-3318 | 6 | Screw-Neck, Rib |
| 6 | 140-6450 | 1 | Bracket ASM-Turf Guard, RH |
| 6:2 | 125-3318 | 3 | Screw-Neck, Rib |
| 7 | 32121-25 | 2 | Pin-Roll |
| 8 | 110-4274-03 | 4 | Clamp-Guard, Turf |
| 9 | 92-3133 | 4 | Spacer-Lever, Traction |
| 10 | 322-7 | 4 | Screw-HH |
| 11 | 104-8300 | 4 | Nut-HF, NI |
| 12 | 140-8661-01 | 1 | Sensor Bracket ASM |
| 13 | 140-2252 | 1 | Control Rod ASM |
| 13:1 | 139-7994 | 1 | Rod-Control, Depth |
| 13:2 | 2411-52 | 1 | Bearing-Rod End, RH |
| 13:3 | 3220-2 | 1 | Nut-Hex Jam |

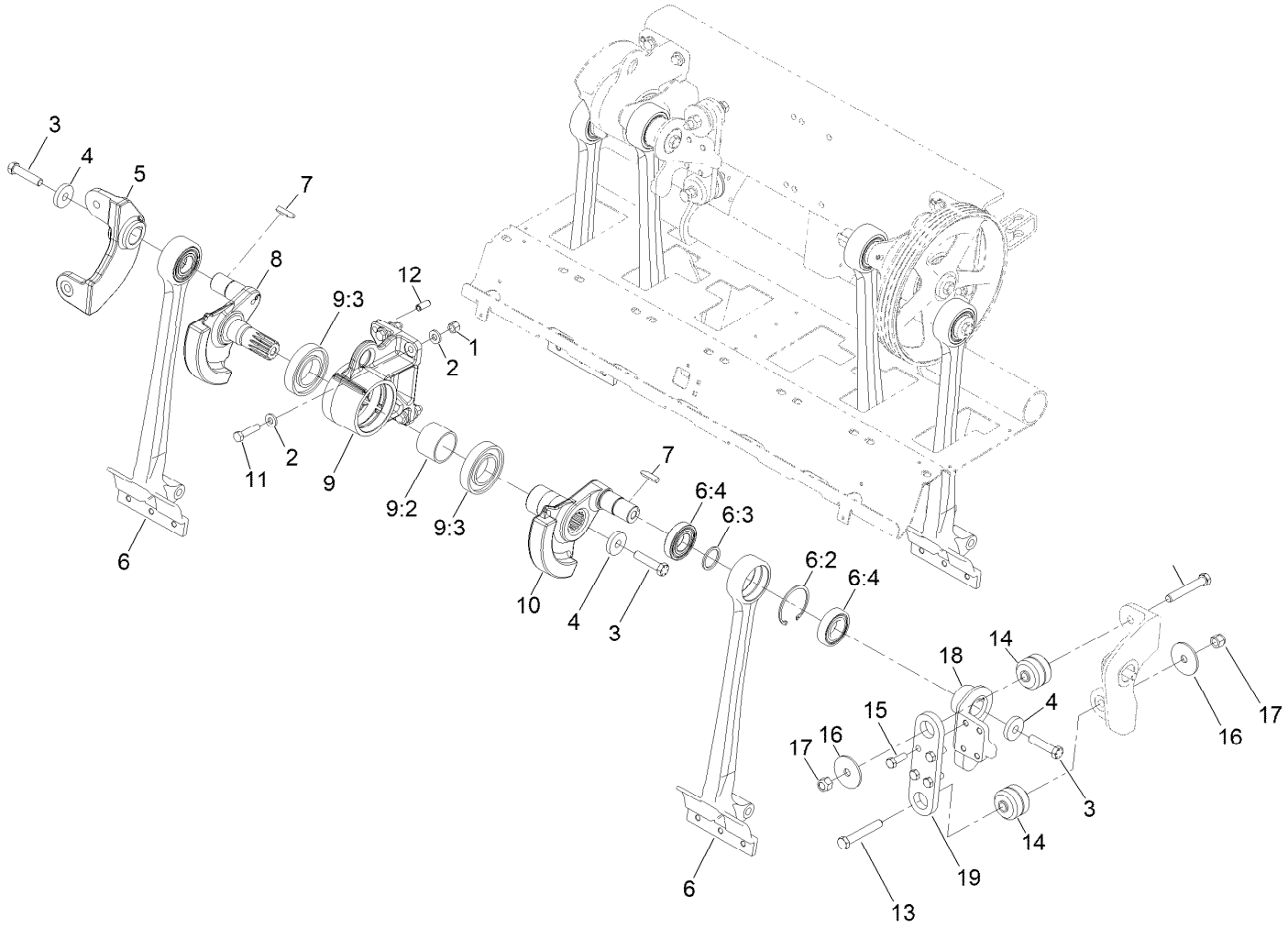
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 13:4 | 2411-53 | 1 | Bearing-Rod End, LH |
| 13:5 | 3220-20 | 1 | Nut-Jam |
| 14 | 3231-2 | 2 | Bolt-CARR |
| 15 | 104-8301 | 14 | Nut-HF, NI |
| 16 | 140-8619 | 1 | Control Rod ASM |
| 16:1 | 140-8618 | 1 | Rod-Control, Sensor |
| 16:2 | 2411-52 | 1 | Bearing-Rod End, RH |
| 16:3 | 3220-2 | 1 | Nut-Hex Jam |
| 16:4 | 2411-53 | 1 | Bearing-Rod End, LH |
| 16:5 | 3220-20 | 1 | Nut-Jam |
| 17 | 3256-24 | 12 | Washer-Plain |
| 18 | 256-156 | 4 | Bushing-Flange |
| 19 | 139-7999 | 2 | Lever ASM |
| 20 | 32151-61 | 2 | Ring-Retaining |
| 21 | 122-0914 | 2 | Sensor-Rotary, Body/Magnet Matched Set |
| 22 | 112-8617 | 2 | Nut-Hex |
| 23 | 3296-52 | 4 | Nut-Lock, NI |
| 24 | 140-8959 | 4 | Screw-Fht |
| 25 | 108473 | 2 | Washer-Wave |




# RH Crankarm Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 3296-23 | 4 | Nut-Lock, NI |
| 2 | 107-3395 | 8 | Washer-Hardened |
| 3 | 110-4614 | 3 | Screw-HH |
| 4 | 105-1016 | 3 | Washer-Hardened |
| 5 | 110-4567 | 1 | Coupling-No. 2 |
| 6 | 140-8809 | 2 | Stomper Arm ASM |
| 6:2 | 32151-76 | 1 | Ring-Retaining, Internal |
| 6:3 | 110-4557 | 1 | Spacer-Bearing |
| 6:4 | 140-8808 | 2 | Bearing |

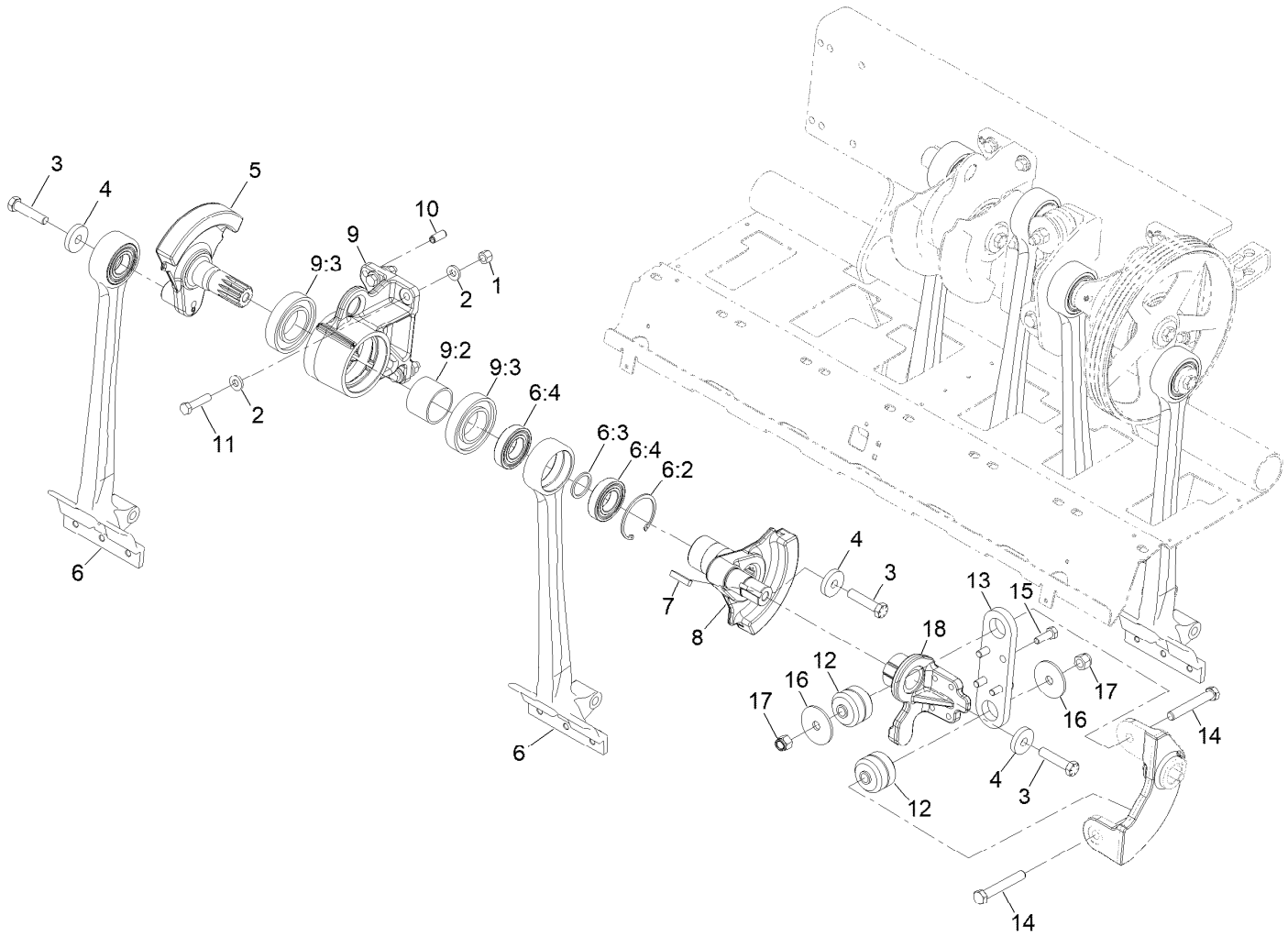
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 7 | 110-4546 | 1 | Key-Square |
| 8 | 110-4571 | 1 | Crankarm-No. 2, 4, 6 |
| 9 | 115-4703 | 1 | Housing ASM |
| 9:2 | 105-1017 | 1 | Spacer |
| 9:3 | 105-0965 | 2 | Bearing-Ball |
| 10 | 114-1458 | 1 | Pulley-Crankshaft |
| 11 | 325-9 | 4 | Screw-HH |
| 12 | 105-1041 | 2 | Pin-Spring |




# Center Crankarm Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 3296-23 | 4 | Nut-Lock, NI |
| 2 | 107-3395 | 8 | Washer-Hardened |
| 3 | 110-4614 | 3 | Screw-HH |
| 4 | 105-1016 | 3 | Washer-Hardened |
| 5 | 110-4569 | 1 | Coupling-No.4 |
| 6 | 140-8809 | 2 | Stomper Arm ASM |
| 6:2 | 32151-76 | 1 | Ring-Retaining, Internal |
| 6:3 | 110-4557 | 1 | Spacer-Bearing |
| 6:4 | 140-8808 | 2 | Bearing |
| 7 | 110-4546 | 2 | Key-Square |
| 8 | 110-4571 | 1 | Crankarm-No. 2, 4, 6 |
| 9 | 115-4703 | 1 | Housing ASM |

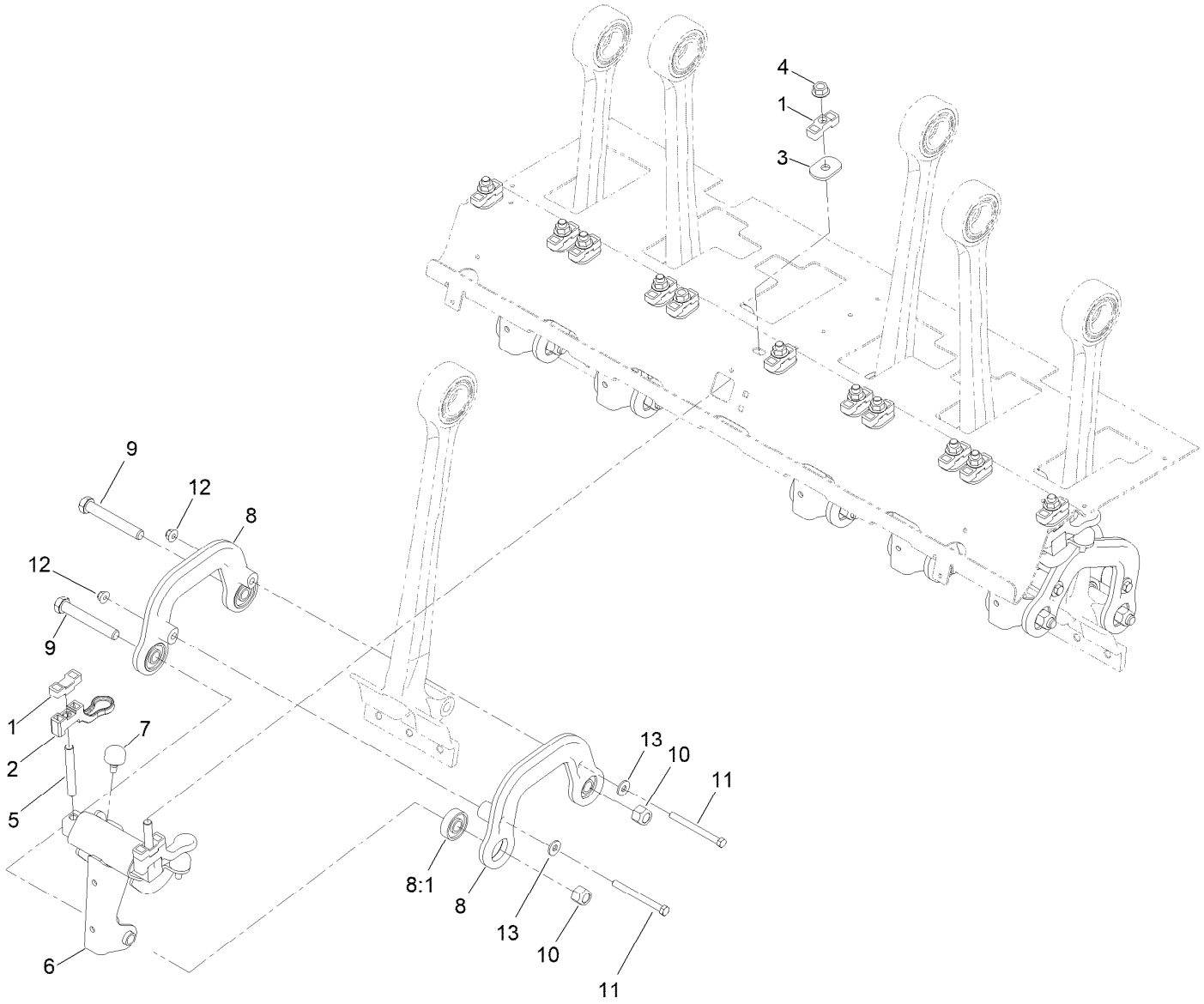
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 9:2 | 105-1017 | 1 | Spacer |
| 9:3 | 105-0965 | 2 | Bearing-Ball |
| 10 | 110-4572 | 1 | Crankarm-No. 3, 5, 7 |
| 11 | 325-9 | 4 | Screw-HH |
| 12 | 105-1041 | 2 | Pin-Spring |
| 13 | 327-29 | 2 | Screw-HH |
| 14 | 105-0963 | 2 | Mount-ISO, Crank |
| 15 | 325-6 | 4 | Screw-HH |
| 16 | 110-4549 | 2 | Washer-Snubbing |
| 17 | 3296-53 | 2 | Nut-Lock, NI |
| 18 | 110-4568 | 1 | Coupling-No. 3 |
| 19 | 105-0974-03 | 1 | Plate-Coupling |




# LH Crankarm Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 3296-23 | 4 | Nut-Lock, NI |
| 2 | 107-3395 | 8 | Washer-Hardened |
| 3 | 110-4614 | 3 | Screw-HH |
| 4 | 105-1016 | 3 | Washer-Hardened |
| 5 | 110-4576 | 1 | Crankarm-No.6 |
| 6 | 140-8809 | 2 | Stomper Arm ASM |
| 6:2 | 32151-76 | 1 | Ring-Retaining, Internal |
| 6:3 | 110-4557 | 1 | Spacer-Bearing |
| 6:4 | 140-8808 | 2 | Bearing |
| 7 | 110-4546 | 1 | Key-Square |
| 8 | 110-4572 | 1 | Crankarm-No. 3, 5, 7 |
| 9 | 115-4703 | 1 | Housing ASM |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 9:2 | 105-1017 | 1 | Spacer |
| 9:3 | 105-0965 | 2 | Bearing-Ball |
| 10 | 105-1041 | 2 | Pin-Spring |
| 11 | 325-9 | 4 | Screw-HH |
| 12 | 105-0963 | 2 | Mount-ISO, Crank |
| 13 | 105-0974-03 | 1 | Plate-Coupling |
| 14 | 327-29 | 2 | Screw-HH |
| 15 | 325-6 | 4 | Screw-HH |
| 16 | 110-4549 | 2 | Washer-Snubbing |
| 17 | 3296-53 | 2 | Nut-Lock, NI |
| 18 | 110-4570 | 1 | Coupling-No.5 |




# Damper Link Assembly

| *Ref.* | *Part Number* | *Qty.* | *Description* |
|---|---|---|---|
| 1 | 110-4507 | 24 | Standoff-Rotolink |
| 2 | 110-4506 | 12 | Bumper-Rotolink |
| 3 | 107-7543 | 12 | Washer-Hardened |
| 4 | 32128-23 | 12 | Nut-HF |
| 5 | 110-4504 | 12 | Stud |
| 6 | 106-8922 | 6 | Damper |
| 7 | 87-2440 | 12 | Bumper-Rubber |
| 8 | 140-6194 | 12 | Link ASM-Damper |
| 8:1 | 251-311 | 2 | Bearing-Ball |
| 9 | 327-29 | 12 | Screw-HH |
| 10 | 3296-53 | 12 | Nut-Lock, NI |
| 11 | 323-16 | 12 | Screw-HH |
| 12 | 104-8301 | 12 | Nut-HF, NI |
| 13 | 80-6990 | 12 | Washer-Hardened |

# Attachments and Accessories

## For 09960C — ProCore 648s Aerator

| Product Name | Model/Part |
|---|---|
| Windrower Kit | 09220 |
| Tire Scraper Kit | 09225 |
| Rear Roller Kit | 09234 |
| Four-Tine Head Quick Lock | 09719 |
| 2 x 5 Mini Tine Head | 09736 |
| 1 x 6 Mini Tine Head | 09737 |
| Needle Tine Head | 09739 |
| 3/4in Three-Tine Head | 09794 |
| 3/4in Four-Tine Head | 09796 |
| 7/8in Three-Tine Head | 09797 |
| Light Kit-Procore 648s (09960) | 09962 |
| Yellow Hydraulic Fluid Cap (Tethered) | 107-2174 |
| Premium All Purpose Grease (Tube) | 108-1190 |
| Wireless Hourmeter | 115-4754 |
| Inline Fuel Filter | 115-7854 |
| Turf Guard 3 Tine (Short) | 120-1044 |
| Turf Guard 4 Tine (Short) | 120-1045 |
| 4-Tine Turf Guard (long) | 120-1046 |
| Turf Guard 5 Tine (Short) | 120-1047 |
| Turf Guard 6 Tine (Short) | 120-1050 |
| 3-Tine Turf Guard (long) | 120-1051 |
| 5-Tine Turf Guard (long) | 120-1052 |
| 6-Tine Turf Guard (long) | 120-1053 |
| Premium Engine Oil 10w30 (55 Gallon Drum) | 121-6392 |
| Premium Engine Oil 10w30 (5 Gallon Pail) | 121-6393 |
| Head Bearing Kit | 131-4876 |
| PX Hydraulic Fluid (5 Gal) | 133-8086 |
| PX Hydraulic Fluid (55 Gal) | 133-8087 |
| Toro Red 12oz Aerosol Can | 361-10 |
| New Red Paint - Gallon | 361-11 |
| Dark Metallic Gray Aerosol Paint | 361-12 |
| Semi-Gloss Black Spray Paint | 361-9 |
| Air Dry Red Paint - Qt | 5340 |
| Exhaust Silencer Screen | 93-9911 |

## Notes:




**Count on it.**