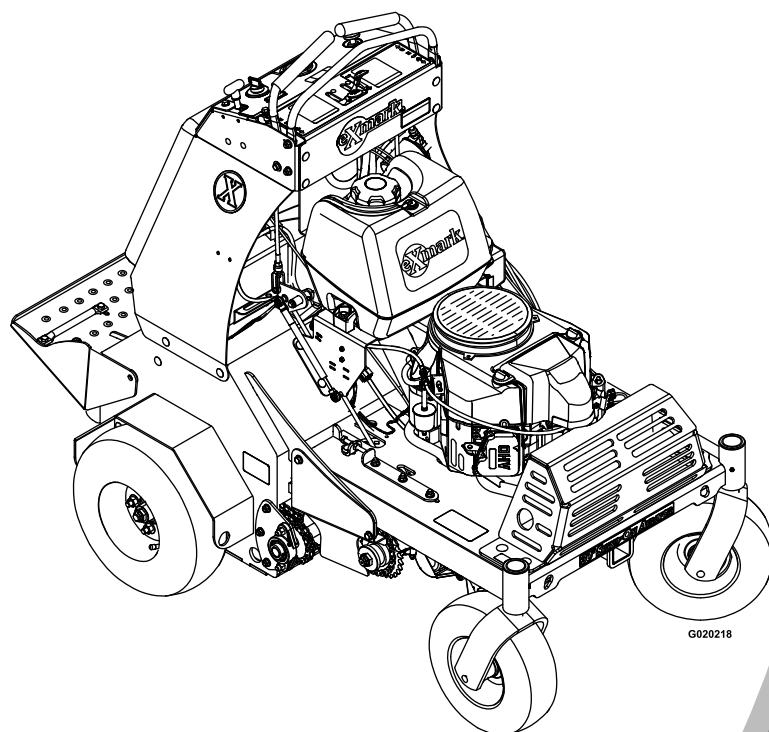




# **STAND-ON AERATOR**

**Model No. SAR481KA30CA—Serial No. 314000000 and Up**

Picture below may not reflect actual product.



# **Parts Manual**

# 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.

# List of Abbreviations

|                                              |                                                |                                          |
|----------------------------------------------|------------------------------------------------|------------------------------------------|
| <b>AR:</b> as required                       | <b>HJ:</b> hex jam                             | <b>PRH:</b> phillips round head          |
| <b>ASM:</b> assembly                         | <b>HLH:</b> hex lag head                       | <b>PTH:</b> phillips truss head          |
| <b>BBC:</b> blade brake control              | <b>HOC:</b> height-of-cut                      | <b>PTO:</b> power-take-off               |
| <b>BHTF:</b> button head thread forming      | <b>HSBH:</b> hex socket button head            | <b>RH:</b> right hand                    |
| <b>CARR:</b> carriage                        | <b>HSFH:</b> hex socket flat head              | <b>ROPS:</b> roll-over protection system |
| <b>CCW:</b> counter clockwise                | <b>HSH:</b> hex socket head                    | <b>RRB:</b> rear roller brush            |
| <b>CW:</b> clockwise                         | <b>HWH:</b> hex washer head                    | <b>SFH:</b> slotted fillister head       |
| <b>DEG:</b> degrees                          | <b>HWHTF:</b> hex washer head thread forming   | <b>SHH:</b> slotted hex head             |
| <b>DPA:</b> Dual Point Adjustment            | <b>HYD:</b> hydraulic                          | <b>SHWH:</b> slotted hex washer head     |
| <b>ECM:</b> electronic control module        | <b>LH:</b> left hand                           | <b>SPH:</b> slotted pan head             |
| <b>EXT:</b> external                         | <b>LP:</b> Liquefied Petroleum Gas             | <b>SQH:</b> square head                  |
| <b>FH:</b> flat head                         | <b>LPG:</b> Liquefied Petroleum Gas            | <b>SRH:</b> slotted round head           |
| <b>GA:</b> gauge                             | <b>NI:</b> nylon insert                        | <b>STD:</b> standard                     |
| <b>HD:</b> heavy-duty                        | <b>NPTF:</b> national pipe thread fine         | <b>TAP:</b> self tapping                 |
| <b>HF:</b> hex flange                        | <b>PFH:</b> phillips flat head                 | <b>TTH:</b> torx truss head              |
| <b>HH:</b> hex head                          | <b>PPH:</b> phillips pan head                  |                                          |
| <b>HHF:</b> hex head flange                  | <b>PPHTF:</b> phillips pan head thread forming |                                          |
| <b>HHFTF:</b> hex head flange thread forming |                                                |                                          |

# Touch Up Paint

Exmark black touch up spray paint – gloss black.

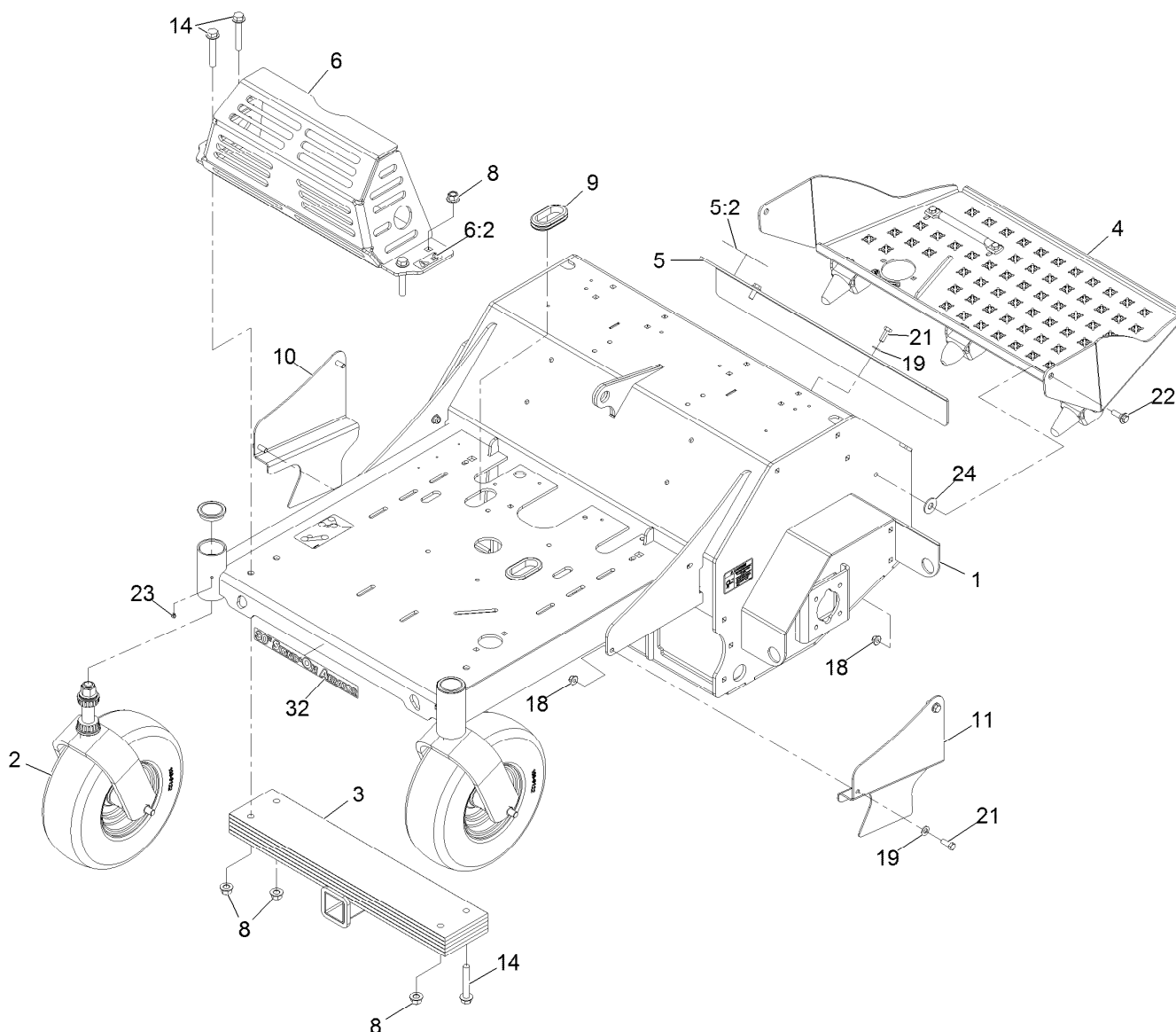
Exmark red touch up paint (spray paint – P/N 1-850337 - .6 oz liquid bottle – P/N 103-9140).



If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE Guaranteed!! (Some restrictions apply. See your participating Exmark Dealer for details.)

## Contents

|                                                               |    |
|---------------------------------------------------------------|----|
| Main Frame Assembly .....                                     | 4  |
| Main Frame W//Decals Assembly No. 116-8134 .....              | 5  |
| Caster Wheel and Fork Assembly .....                          | 6  |
| Platform W/Decal and Rocker Assembly .....                    | 7  |
| Tower Assembly .....                                          | 8  |
| Motion Control Assembly .....                                 | 9  |
| Ground Drive Assembly .....                                   | 10 |
| RH Transaxle No. 116-9712 .....                               | 12 |
| LH Transaxle No. 116-9713 .....                               | 14 |
| Axle and Bearing Assembly No. 116-9545 .....                  | 16 |
| Idler Arm Assembly No. 116-9307 .....                         | 17 |
| Auxiliary Hydraulic Assembly .....                            | 18 |
| Manifold W/Check and Relief Valve Assembly No. 116-9549 ..... | 20 |
| Tine Assembly .....                                           | 21 |
| RH Tine Wheel Assembly No. 116-6738 .....                     | 22 |
| LH Tine Wheel Assembly No. 116-6739 .....                     | 23 |
| Fuel Assembly .....                                           | 24 |
| Engine Assembly .....                                         | 25 |
| Electrical Assembly .....                                     | 26 |

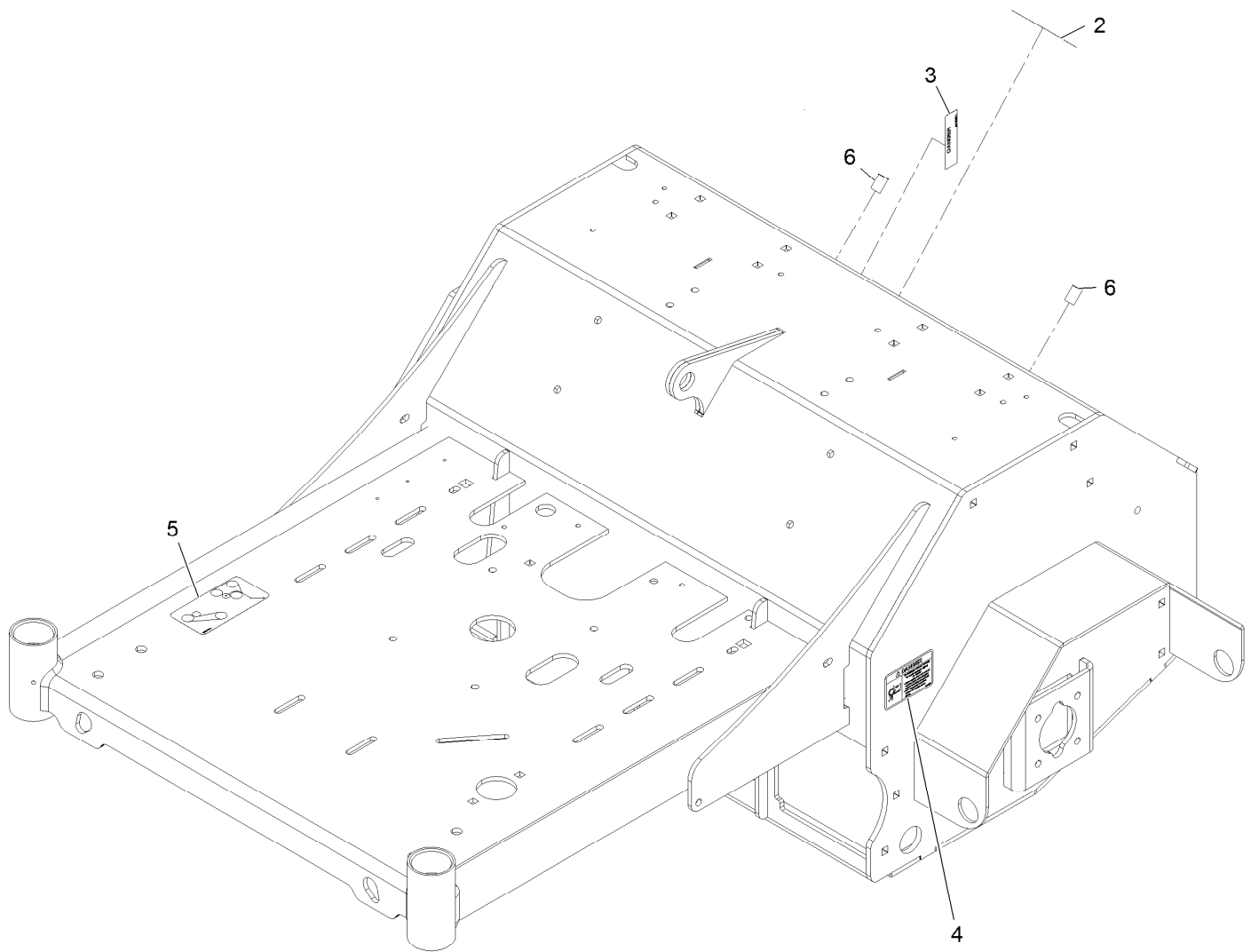


## Main Frame Assembly

| Ref. | Part Number | Qty. | Description                   |
|------|-------------|------|-------------------------------|
| 1    | 116-8134    | 1    | Frame-Main ASM W/Decals       |
| 2    |             | 2    | Front Caster ASM W/Fork ●     |
| 3    | 116-6536-01 | 1    | Weight                        |
| 4    | 116-9134    | 1    | Platform ASM W/Decal & Rocker |
| 5    | 116-6939    | 1    | Access Cover ASM              |
| 5:2  | 116-6459    | 1    | Decal-Tine Ground Operation   |
| 6    | 116-8258    | 1    | Muffler Guard ASM             |
| 6:2  | 115-2047    | 2    | Decal-Surface, Hot            |
| 8    | 99-5107     | 4    | Nut-Lock 1/2-13               |
| 9    | 126-0015    | 2    | Grommet                       |

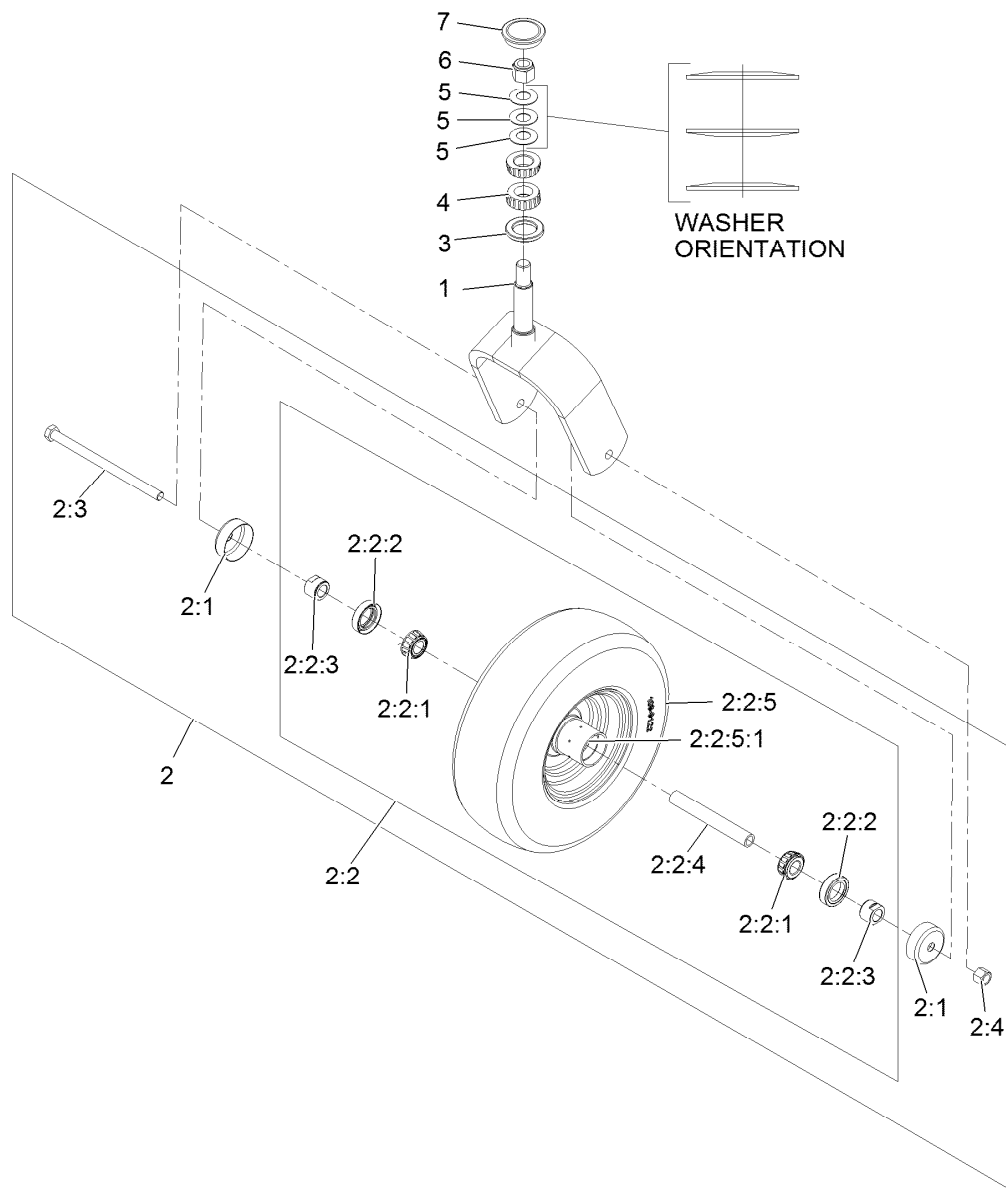
| Ref. | Part Number | Qty. | Description                   |
|------|-------------|------|-------------------------------|
| 10   | 116-6612-01 | 1    | Guard-Chain, RH               |
| 11   | 116-6611-01 | 1    | Guard-Chain, LH               |
| 14   | 3234-40     | 4    | Screw-HF                      |
| 18   | 104-8301    | 6    | Nut-Nyloc 3/8-16 Flg          |
| 19   | 3256-24     | 6    | Washer-3/8 Sae                |
| 21   | 323-6       | 6    | Screw-HH 3/8-16 X 1           |
| 22   | 614672      | 2    | Screw-Shoulder 3/8-16 X 1.295 |
| 23   | 1-811010    | 2    | Plug                          |
| 24   | 3256-6      | 2    | Washer                        |
| 32   | 116-6952    | 1    | Decal-Stand-On Aerator 30     |

● Not serviced separately



## Main Frame W//Decals Assembly No. 116-8134

| Ref. | Part Number | Qty. | Description                 |
|------|-------------|------|-----------------------------|
| 2    | 116-6455    | 1    | Decal-Danger Rotating Tines |
| 3    | 98-5954     | 1    | Decal-Missing Cover         |
| 4    | 116-6456    | 2    | Decal-Danger Chain Drive    |
| 5    | 116-9391    | 1    | Decal-Belt Routing          |
| 6    | 32148-10    | 2    | Insert-Nut                  |



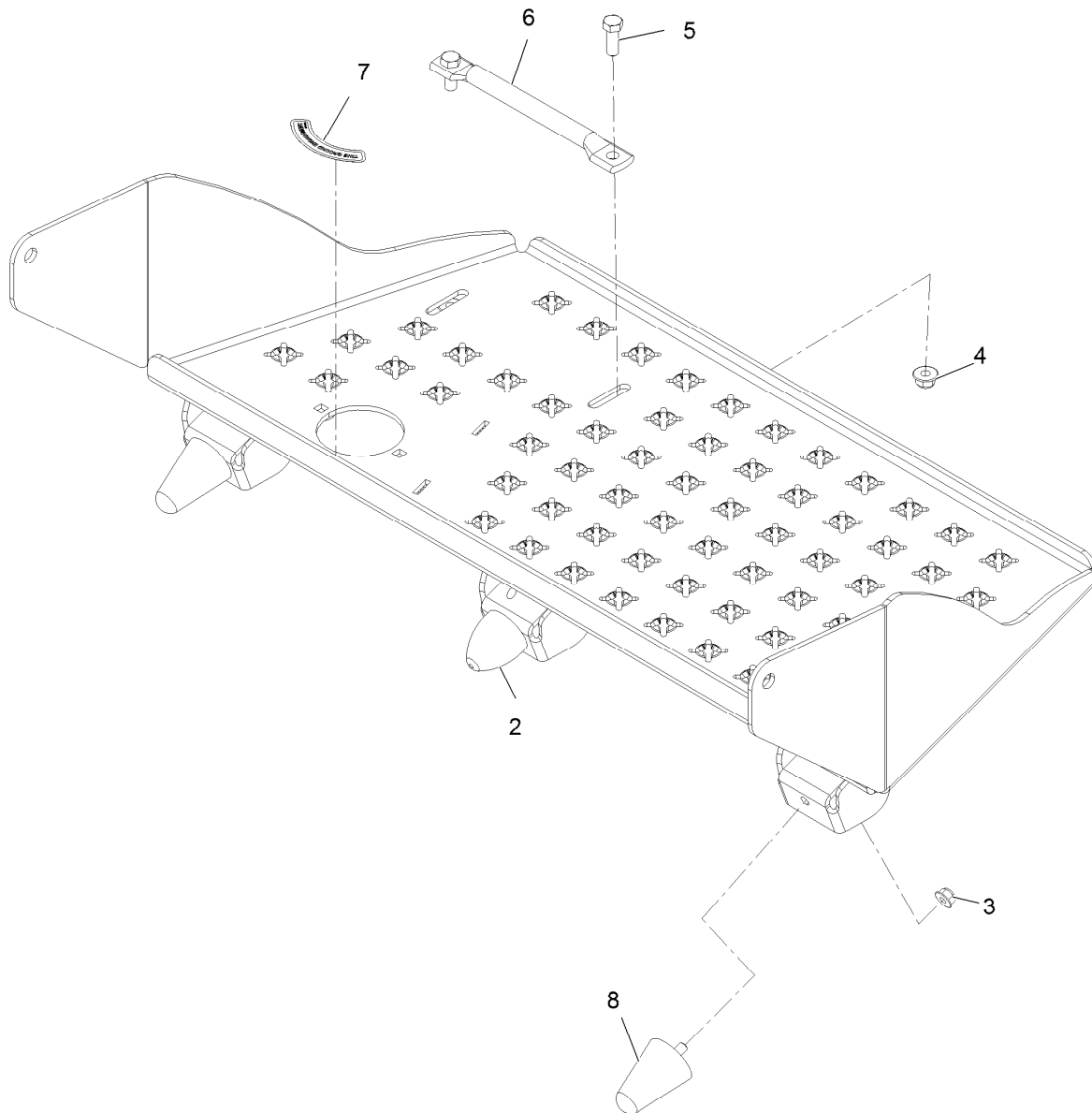
## Caster Wheel and Fork Assembly

| Ref.  | Part Number | Qty. | Description                 |
|-------|-------------|------|-----------------------------|
| 1     | 116-6704-01 | 1    | Caster                      |
| 2     | 109-9126    | 1    | Wheel And Tire ASM          |
| 2:1   | 103-2768    | 2    | Guard-Seal                  |
| 2:2   |             | 1    | Wheel And Tire ASM ●        |
| 2:2:1 | 1-633585    | 2    | Bearing-Cone Tapered Roller |
| 2:2:2 | 103-0063    | 2    | Seal-Double Lip             |
| 2:2:3 | 103-3051    | 2    | Spacer-Nut ■                |
| 2:2:4 | 103-3155    | 1    | Axle-Caster                 |
| 2:2:5 |             | 1    | Wheel And Tire ASM ●        |

| Ref.    | Part Number | Qty. | Description                 |
|---------|-------------|------|-----------------------------|
| 2:2:5:1 | 1-633584    | 1    | Bearing-Cup                 |
| 2:3     | 325-42      | 1    | Screw-HH 1/2-13 X 8         |
| 2:4     | 3296-23     | 1    | Nut-Nyloc 1/2-13            |
| 3       | 116-5647    | 1    | Seal-Grease                 |
| 4       | 1-543509    | 2    | Cone-Bearing Tapered Roller |
| 5       | 1-633508    | 3    | Washer-Spring Disc          |
| 6       | 3296-51     | 1    | Nut-Nyloc 3/4-10            |
| 7       | 103-4882    | 1    | Cap-Grease                  |

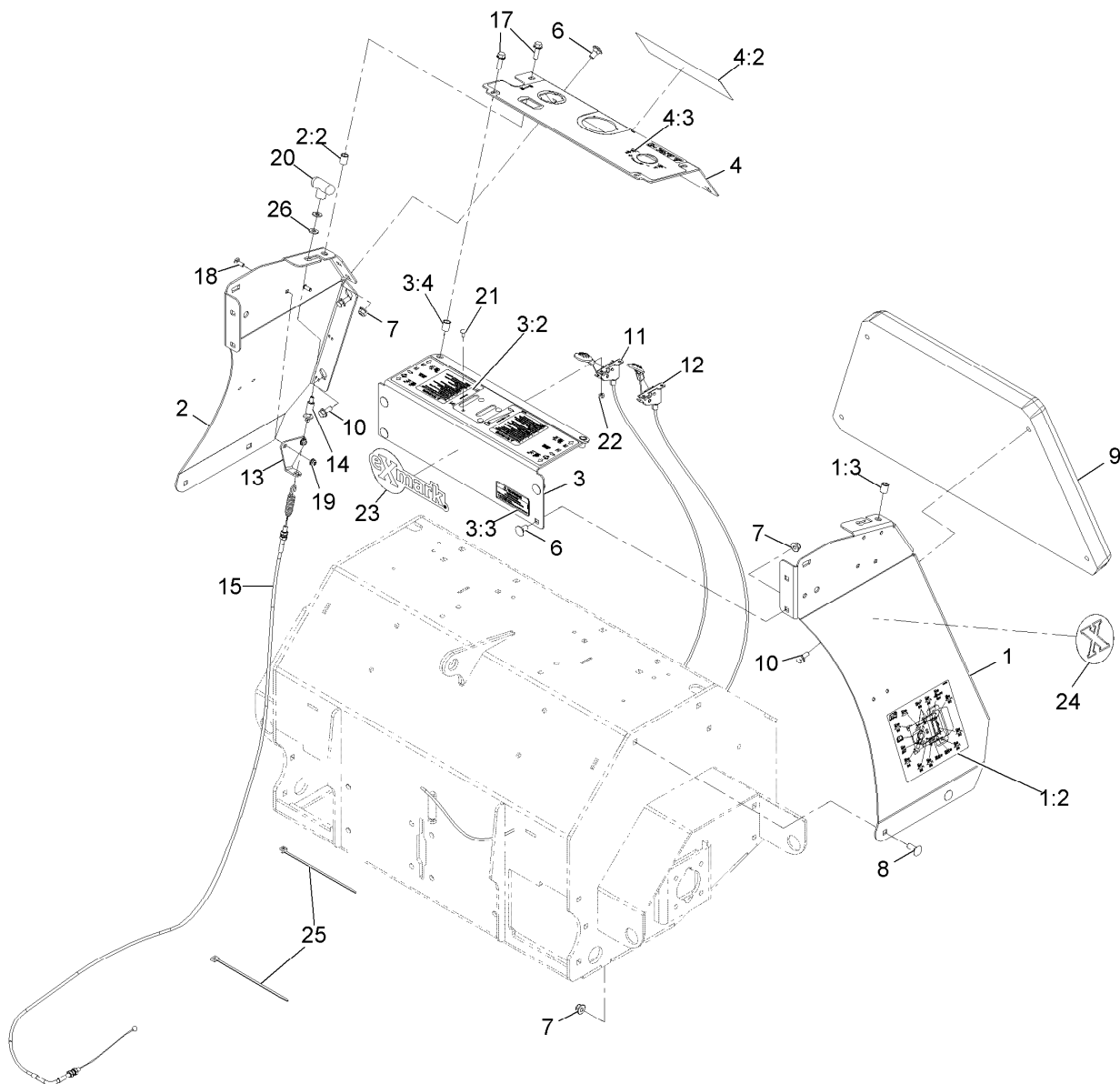
● Not serviced separately

■ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.



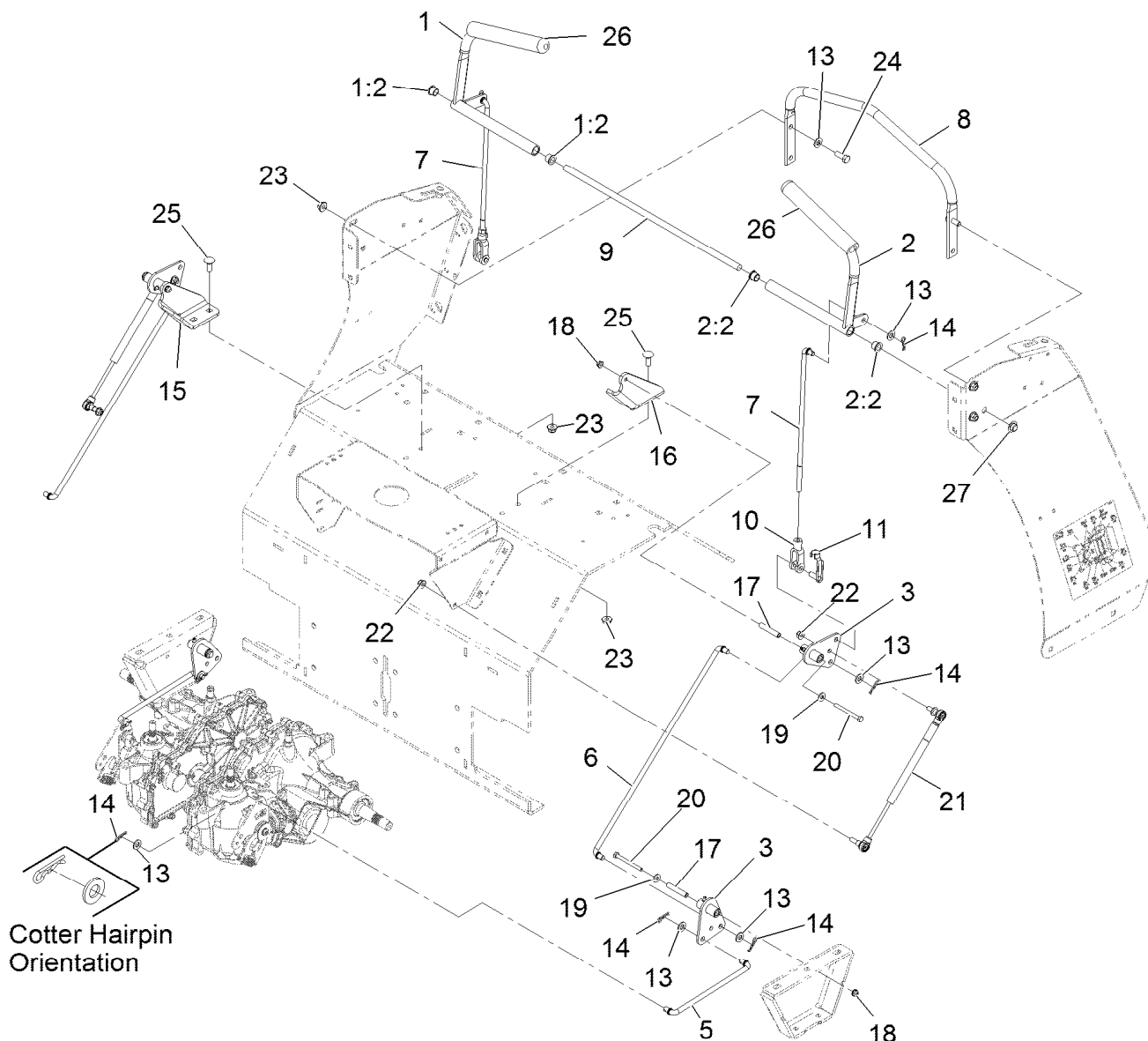
## Platform W/Decal and Rocker Assembly

| Ref. | Part Number | Qty. | Description                  |
|------|-------------|------|------------------------------|
| 2    | 114-1926    | 1    | Bumper-Rubber                |
| 3    | 104-8300    | 3    | Nut-Nyloc 5/16-18 Flg        |
| 4    | 104-8301    | 2    | Nut-Nyloc 3/8-16 Flg         |
| 5    | 323-6       | 2    | Screw-HH 3/8-16 X 1          |
| 6    | 116-8950-03 | 1    | Rocker-Foot Pedal            |
| 7    | 116-6460    | 1    | Decal-Tine Ground Engagement |
| 8    | 114-1925    | 2    | Bumper-Rubber                |



## Tower Assembly

| Ref. | Part Number | Qty. | Description                     | Ref. | Part Number | Qty. | Description                |
|------|-------------|------|---------------------------------|------|-------------|------|----------------------------|
| 1    | 116-9386    | 1    | Panel-Side,LH<br>W/Decals-Black | 9    | 116-6765    | 1    | Cushion, Grey              |
| 1:2  | 116-9392    | 1    | Decal-Service Aid Ce            | 10   | 3234-5      | 4    | Screw-HH Flg 5/16-18 X 3/4 |
| 1:3  | 32148-7     | 1    | Nut-Insert                      | 11   | 109-9147    | 1    | Control-Choke              |
| 2    | 116-7658    | 1    | ASM-Panel,Side RH (Black)       | 12   | 109-3958    | 1    | Control-Throttle           |
| 2:2  | 32148-7     | 1    | Nut-Insert                      | 13   | 116-6630    | 1    | Bracket-Cable, Brake       |
| 3    | 126-3135    | 1    | ASM-Plate W/Decal               | 14   | 116-7504    | 1    | Link-Cable, Brake          |
| 3:2  | 116-7027    | 1    | Decal-Control Panel<br>Warning  | 15   | 116-7503    | 1    | Cable-Brake                |
| 3:3  | 116-6457    | 1    | Decal-Warning Stored<br>Energy  | 17   | 3234-29     | 4    | Screw-HH Flg 5/16-18 X 1   |
| 3:4  | 32148-7     | 2    | Nut-Insert                      | 18   | 3229-1      | 2    | Bolt-Carriage 1/4-20 X 3/4 |
| 4    | 116-9141    | 1    | ASM-Console W/Decal             | 19   | 104-7201    | 2    | Nut-Nyloc 1/4-20 Flg       |
| 4:2  | 116-7029    | 1    | Decal-Slope Warning             | 20   | 116-7607    | 1    | Knob-Tee                   |
| 4:3  | 116-9132    | 1    | Decal-Danger, Control<br>Panel  | 21   | 1-807513    | 4    | Bolt-Carriage #10-24 X 1/2 |
| 6    | 3231-1      | 6    | Bolt-Carriage 3/8-16 X 3/4      | 22   | 3296-2      | 4    | Nut-Nyloc #10-24           |
| 7    | 104-8301    | 10   | Nut-Nyloc 3/8-16 Flg            | 23   | 103-2882    | 1    | Decal, Exmark Logo         |
| 8    | 3231-2      | 4    | Bolt-Carriage 3/8-16 X 1        | 24   | 116-7034    | 2    | Decal-Exmark X-Logo 3.85   |
|      |             |      |                                 | 25   | 1-303335    | 2    | Tie-Cable 7 15/16 (Large)  |
|      |             |      |                                 | 26   | 3256-2      | 2    | Washer-1/4 Std             |

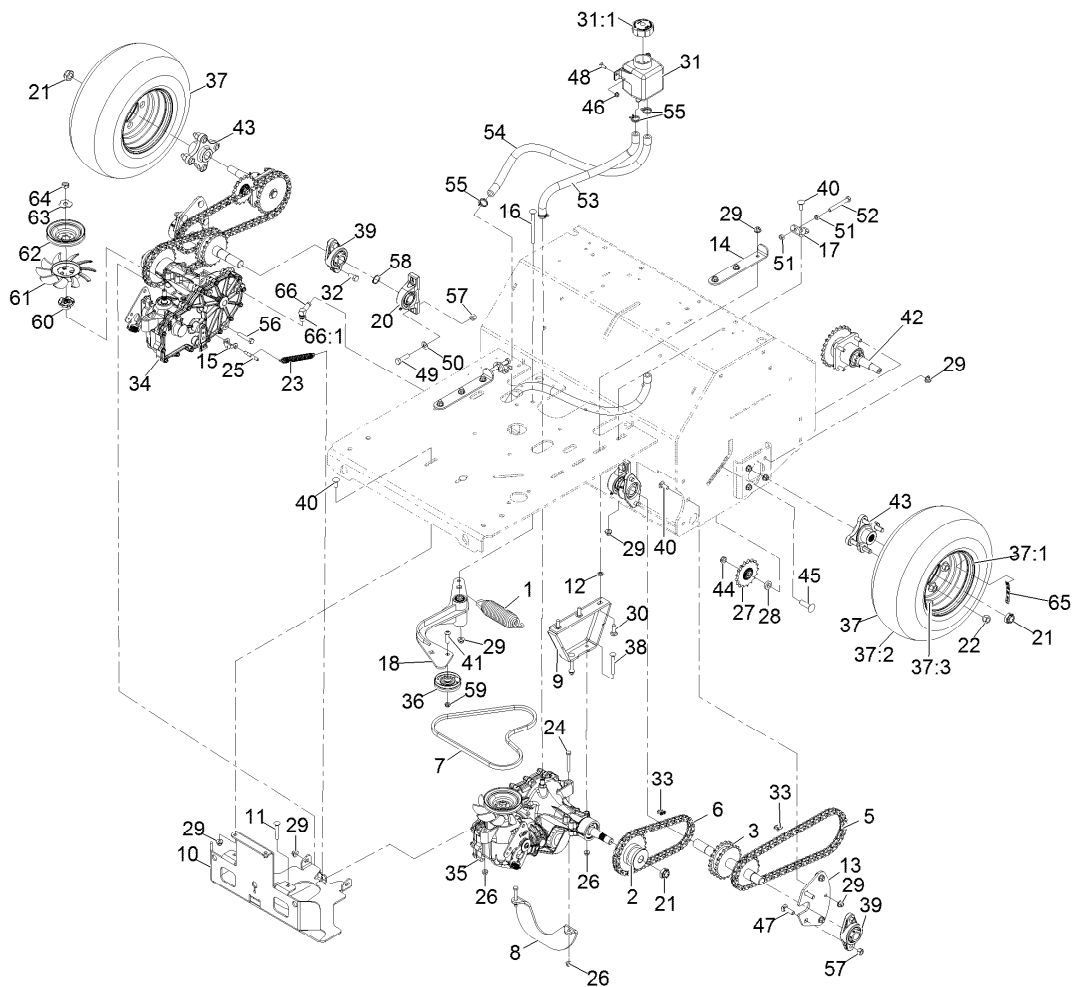


## Motion Control Assembly

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 1    | 116-6567    | 1    | RH Control Handle ASM    |
| 1:2  | 116-4279    | 2    | Bearing-Flange           |
| 2    | 116-6566    | 1    | LH Control Handle ASM    |
| 2:2  | 116-4279    | 2    | Bearing-Flange           |
| 3    | 126-0340    | 4    | Bellcrank W/Zerk         |
| 5    | 116-6722    | 2    | Link-Control, Hydro      |
| 6    | 116-9298    | 2    | Link-Control, Bell Crank |
| 7    | 116-6730    | 2    | Link-Control, Bell Crank |
| 8    | 116-6608-03 | 1    | Bar-Reference            |
| 9    | 116-6607    | 1    | Shaft-Pivot, Control     |
| 10   | 1-633131    | 2    | Yoke-Linkage, Brake      |
| 11   | 103-2399    | 2    | Pin-Clevis Spring 3/8    |
| 13   | 3256-24     | 14   | Washer-3/8 Sae           |
| 14   | 1-806003    | 10   | Hairpin-Cotter           |

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 15   | 116-6576-03 | 1    | Bracket-Pivot, RH        |
| 16   | 116-6577-03 | 1    | Bracket-Pivot, LH        |
| 17   | 116-7224    | 4    | Spacer                   |
| 18   | 104-7201    | 4    | Nut-Nyloc 1/4-20 Flg     |
| 19   | 3256-2      | 4    | Washer-1/4 Std           |
| 20   | 321-14      | 4    | Screw-HH 1/4-20 X 2 3/4  |
| 21   | 116-0027    | 2    | Damper-Control, Motion   |
| 22   | 104-8300    | 4    | Nut-Nyloc 5/16-18 Flg    |
| 23   | 104-8301    | 8    | Nut-Nyloc 3/8-16 Flg     |
| 24   | 323-6       | 4    | Screw-HH 3/8-16 X 1      |
| 25   | 3231-2      | 4    | Bolt-Carriage 3/8-16 X 1 |
| 26   | 103-8153    | 2    | Grip-Lever, Control      |
| 27   | 32112-14    | 2    | Nut-Push                 |





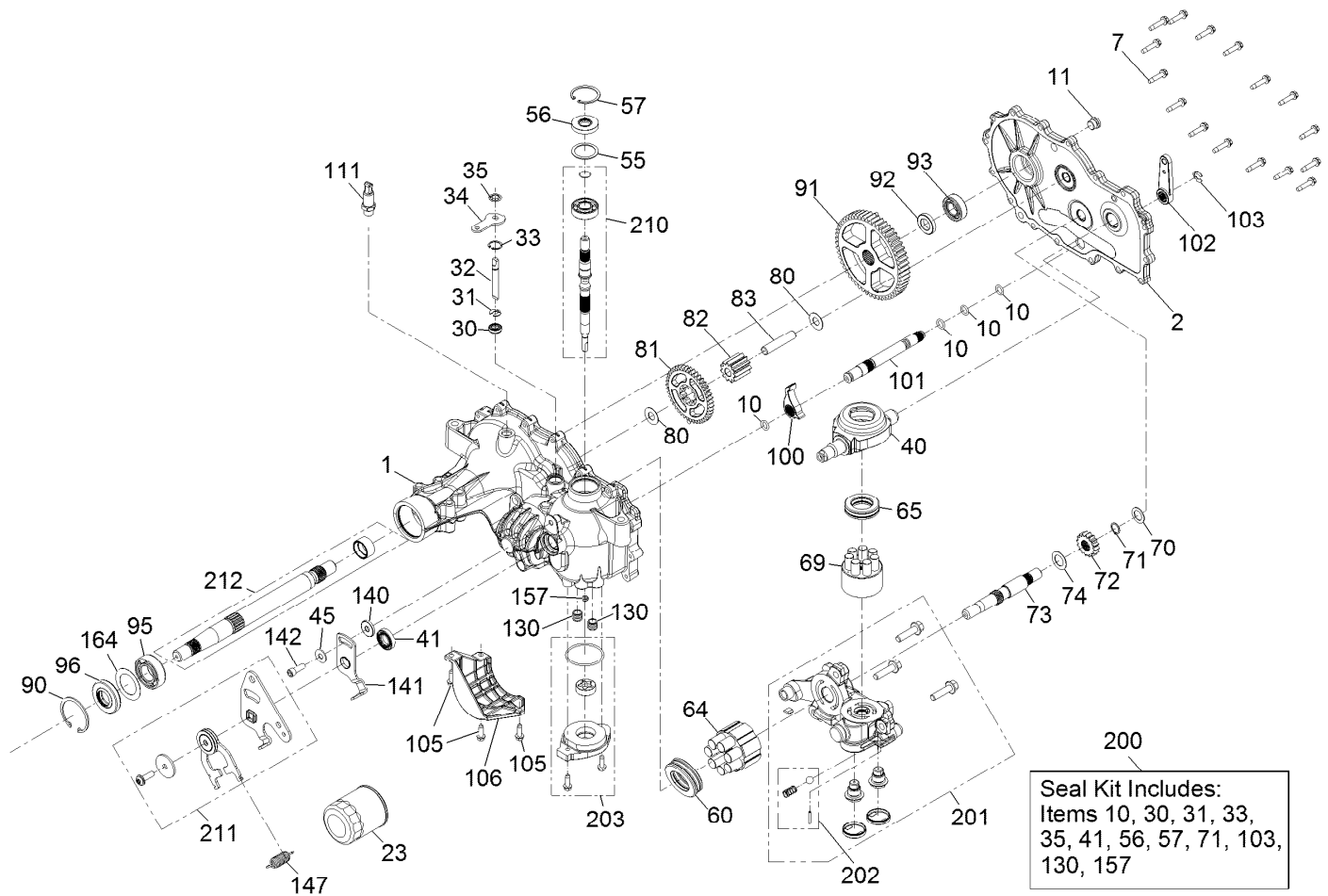
## Ground Drive Assembly (continued)

| Ref. | Part Number | Qty. | Description                   |
|------|-------------|------|-------------------------------|
| 47   | 3232-3      | 4    | Bolt-Carriage 7/16-14 X 1 1/2 |
| 48   | 3229-1      | 2    | Bolt-Carriage 1/4-20 X 3/4    |
| 49   | 324-6       | 4    | Screw-HH 7/16-14 X 1 1/2      |
| 50   | 3256-25     | 4    | Washer-7/16 Sae               |
| 51   | 3217-7      | 4    | Nut-Hex 3/8-16                |
| 52   | 99-8664     | 2    | Bolt-HH 3/8-16 X 3 Tap        |
| 53   | 116-6775    | 1    | Hose-Hydraulic                |
| 54   | 116-6776    | 1    | Hose-Hydraulic                |
| 55   | 109-3322    | 4    | Clamp-Hose                    |
| 56   | 323-10      | 2    | Screw-HH 3/8-16 X 2           |
| 57   | 3296-48     | 8    | Nut-Nyloc 7/16-14             |
| 58   | 32151-29    | 2    | Ring-Retaining                |

| Ref. | Part Number | Qty. | Description                   |
|------|-------------|------|-------------------------------|
| 59   | 3296-59     | 1    | Nut-Nyloc 3/8-16 Thin         |
| 60   | 116-9705    | 2    | Hub-Pulley                    |
| 61   | 116-9706    | 2    | Fan                           |
| 62   | 116-9707    | 2    | Pulley                        |
| 63   | 116-9708    | 2    | Washer-Slotted                |
| 64   | 116-9714    | 2    | Nut-Jam, Hex 1/2-20 W/Patch ■ |
| 65   | 126-2054    | 2    | Decal-Torque Wheel Lug-Hub    |
| 66   | 109-6449    | 1    | Fitting-Elbow, 90             |
| 66:1 | 237-42      | 1    | O-Ring                        |
| 99   | 109-9828    | 1    | Bottle-Oil, 32Oz Hydraulic ●  |

● Not illustrated

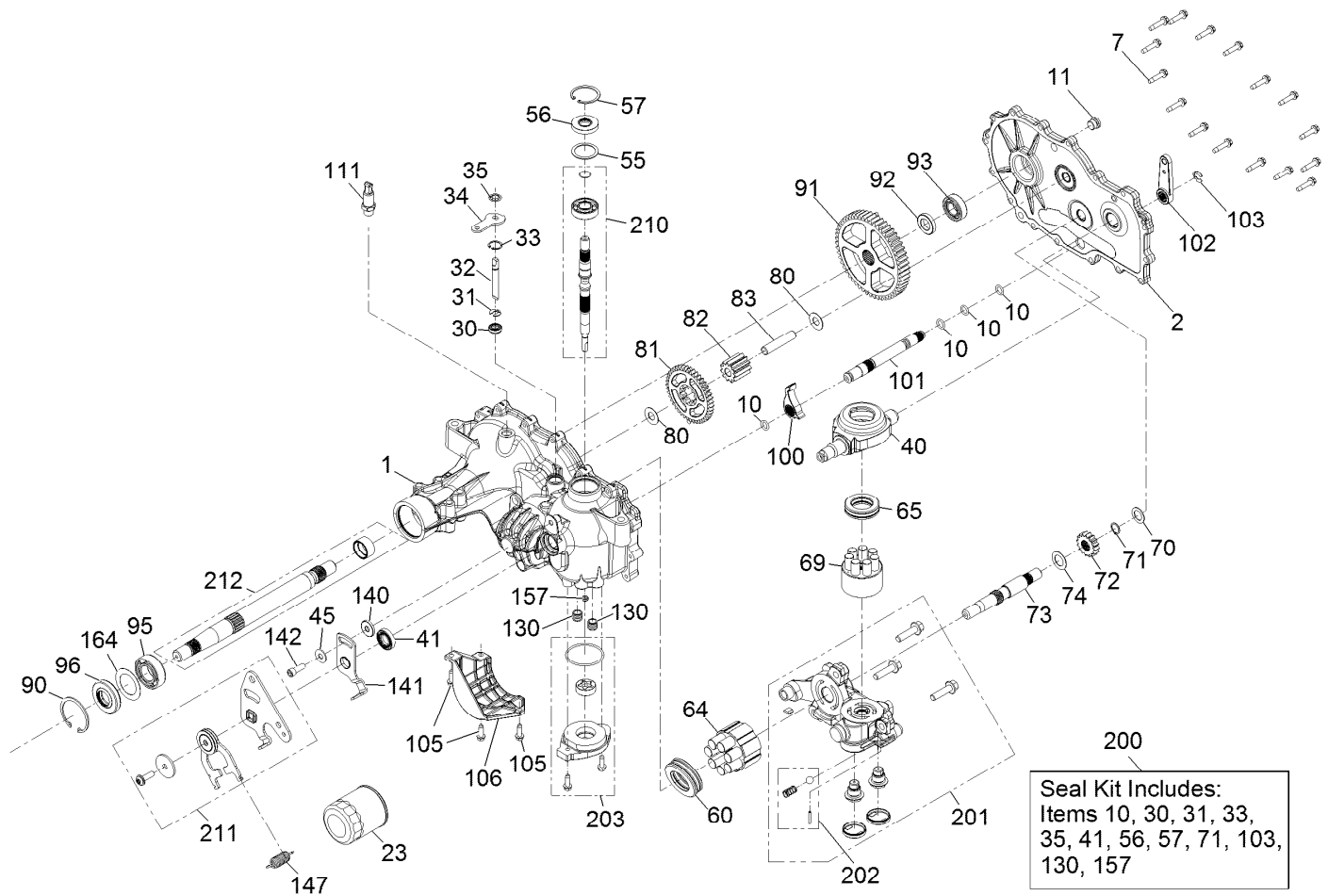
■ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.



## RH Transaxle No. 116-9712

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 1    | 114-1676    | 1    | Main Housing Kit         |
| 2    | 117-5358    | 1    | Housing Side Kit         |
| 7    | 117-5359    | 16   | Screw-HHF                |
| 10   | 114-1678    | 4    | O-Ring                   |
| 11   | 104-2189    | 1    | Plug-Thread, Straight    |
| 23   | 109-3321    | 1    | Filter-Hydraulic         |
| 30   | 106-8676    | 1    | Seal-Lip                 |
| 31   | 106-8677    | 1    | Ring-Retaining, EXT      |
| 32   | 114-1685    | 1    | Rod-Bypass               |
| 33   | 106-8679    | 1    | Ring-Retaining, Int      |
| 34   | 106-8680    | 1    | Arm-Bypass               |
| 35   | 106-8681    | 1    | Ring-Retaining, EXT      |
| 40   | 104-5304    | 1    | Swashplate-Trunnion      |
| 41   | 104-5313    | 1    | Seal-Lip                 |
| 45   | 114-8491    | 1    | Washer                   |
| 55   | 104-5308    | 1    | Spacer                   |
| 56   | 104-5310    | 1    | Seal-Lip                 |
| 57   | 104-5309    | 1    | Ring-Retaining           |
| 60   | 109-2865    | 1    | Bearing-Thrust           |
| 64   | 114-1689    | 1    | Motor Cylinder Block Kit |
| 65   | 94-6922     | 1    | Bearing-Thrust           |

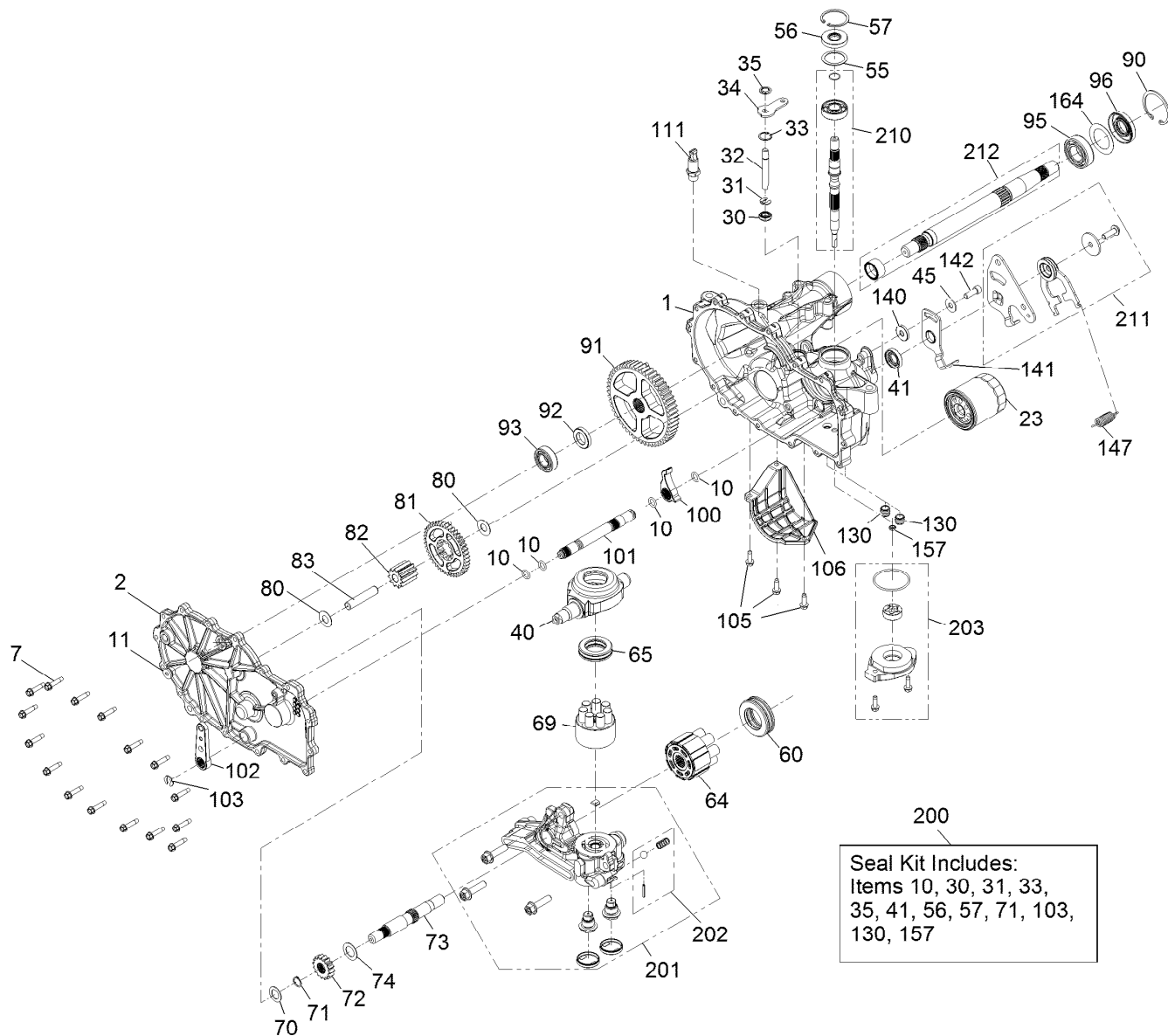
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 69   | 110-8561    | 1    | Pump Block ASM       |
| 70   | 104-5339    | 1    | Washer-Flat          |
| 71   | 104-5340    | 1    | Ring-Retaining       |
| 72   | 126-0788    | 1    | Gear-16T             |
| 73   | 114-1691    | 1    | Shaft-Motor          |
| 74   | 104-5360    | 1    | Washer               |
| 80   | 94-1933     | 2    | Washer               |
| 81   | 125-0000    | 1    | Gear-43T             |
| 82   | 120-7974    | 1    | Gear-11T             |
| 83   | 104-5329    | 1    | Pin-Jackshaft        |
| 90   | 104-2169    | 1    | Ring-Retaining       |
| 91   | 114-1694    | 1    | Gear-54T             |
| 92   | 120-7975    | 1    | Spacer               |
| 93   | 126-0789    | 1    | Bearing-Ball         |
| 95   | 120-7976    | 1    | Bearing-Ball         |
| 96   | 104-2144    | 1    | Seal                 |
| 100  | 114-1697    | 1    | Pawl-Brake           |
| 101  | 114-1698    | 1    | Shaft-Brake, Inboard |
| 102  | 125-0021    | 1    | Handle-Brake         |
| 103  | 131-0906    | 1    | Ring-Retaining, EXT  |
| 105  | 104-2120    | 3    | Screw                |



## RH Transaxle No. 116-9712 (continued)

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 106  | 120-7981    | 1    | Guard-Filter, RH   |
| 111  | 109-3278    | 1    | Adapter-Straight   |
| 130  | 126-3251    | 2    | Tube-Charge        |
| 140  | 114-8458    | 1    | Spacer             |
| 141  | 114-8459    | 1    | Arm-Neutral, Right |
| 142  | 106-8682    | 1    | Screw-Sh           |
| 147  | 115-8307    | 1    | Spring-Extension   |
| 157  | 131-0908    | 1    | Seal-Gerotor       |
| 164  | 121-5745    | 1    | Spacer             |

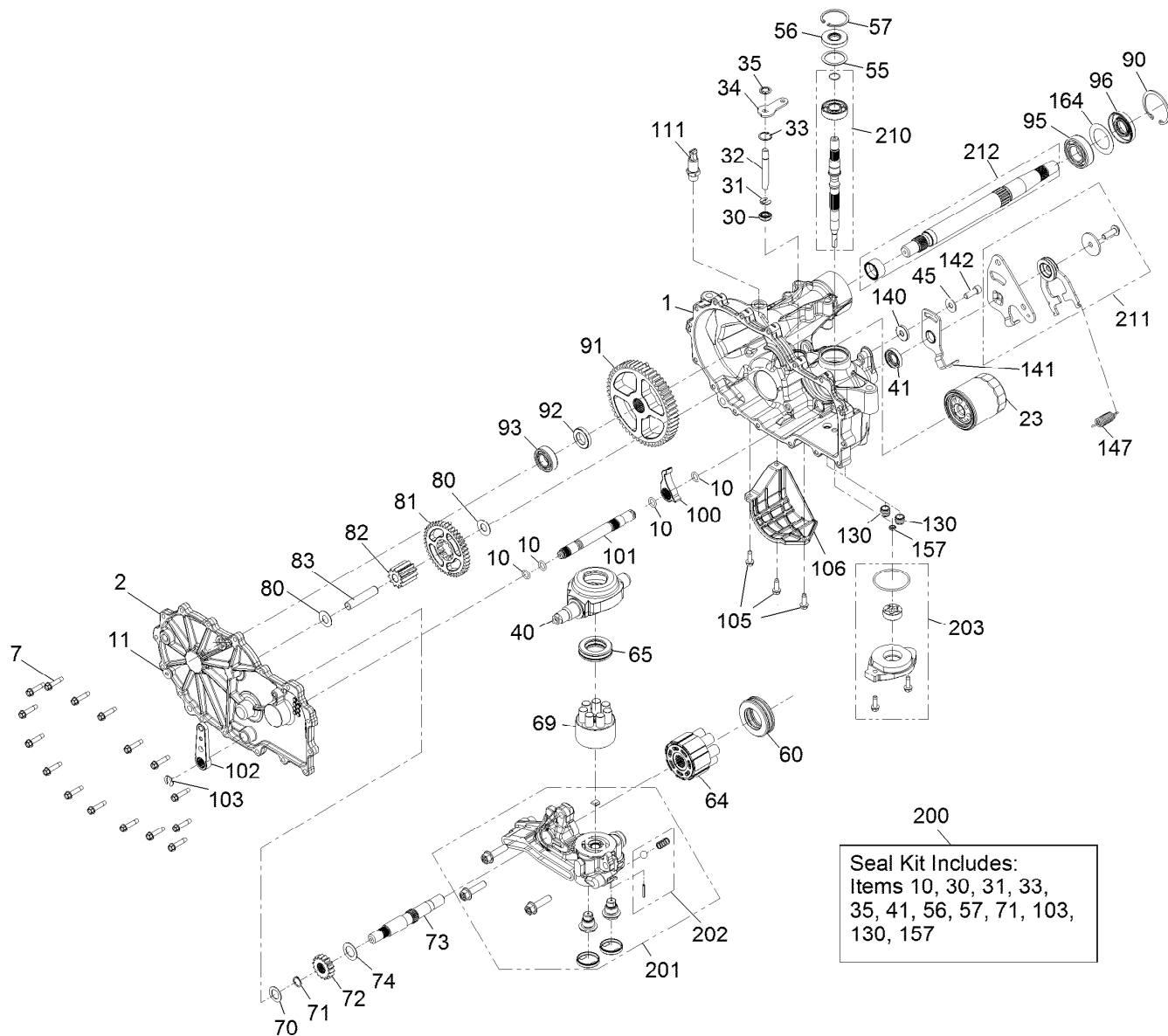
| Ref. | Part Number | Qty. | Description                  |
|------|-------------|------|------------------------------|
| 200  | 109-3537    | 1    | Seal Kit                     |
| 201  | 120-7982    | 1    | RH Center Section Charge Kit |
| 202  | 114-8464    | 1    | Charge Relief Kit            |
| 203  | 114-8465    | 1    | Charge Kit                   |
| 210  | 117-5361    | 1    | Input Shaft Kit              |
| 211  | 126-2291    | 1    | Control Arm Kit              |
| 212  | 114-8470    | 1    | Axle Shaft Kit               |



## LH Transaxle No. 116-9713

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 1    | 114-8471    | 1    | Main Housing Kit         |
| 2    | 114-8472    | 1    | Side Cover Kit           |
| 7    | 117-5359    | 16   | Screw-HHF                |
| 10   | 114-1678    | 3    | O-Ring                   |
| 11   | 104-2189    | 1    | Plug-Thread, Straight    |
| 23   | 109-3321    | 1    | Filter-Hydraulic         |
| 30   | 106-8676    | 1    | Seal-Lip                 |
| 31   | 106-8677    | 1    | Ring-Retaining, EXT      |
| 32   | 114-1685    | 1    | Rod-Bypass               |
| 33   | 106-8679    | 1    | Ring-Retaining, Int      |
| 34   | 106-8680    | 1    | Arm-Bypass               |
| 35   | 106-8681    | 1    | Ring-Retaining, EXT      |
| 40   | 104-5304    | 1    | Swashplate-Trunnion      |
| 41   | 104-5313    | 1    | Seal-Lip                 |
| 45   | 114-8491    | 1    | Washer                   |
| 55   | 104-5308    | 1    | Spacer                   |
| 56   | 104-5310    | 1    | Seal-Lip                 |
| 57   | 104-5309    | 1    | Ring-Retaining           |
| 60   | 109-2865    | 1    | Bearing-Thrust           |
| 64   | 114-1689    | 1    | Motor Cylinder Block Kit |
| 65   | 94-6922     | 1    | Bearing-Thrust           |

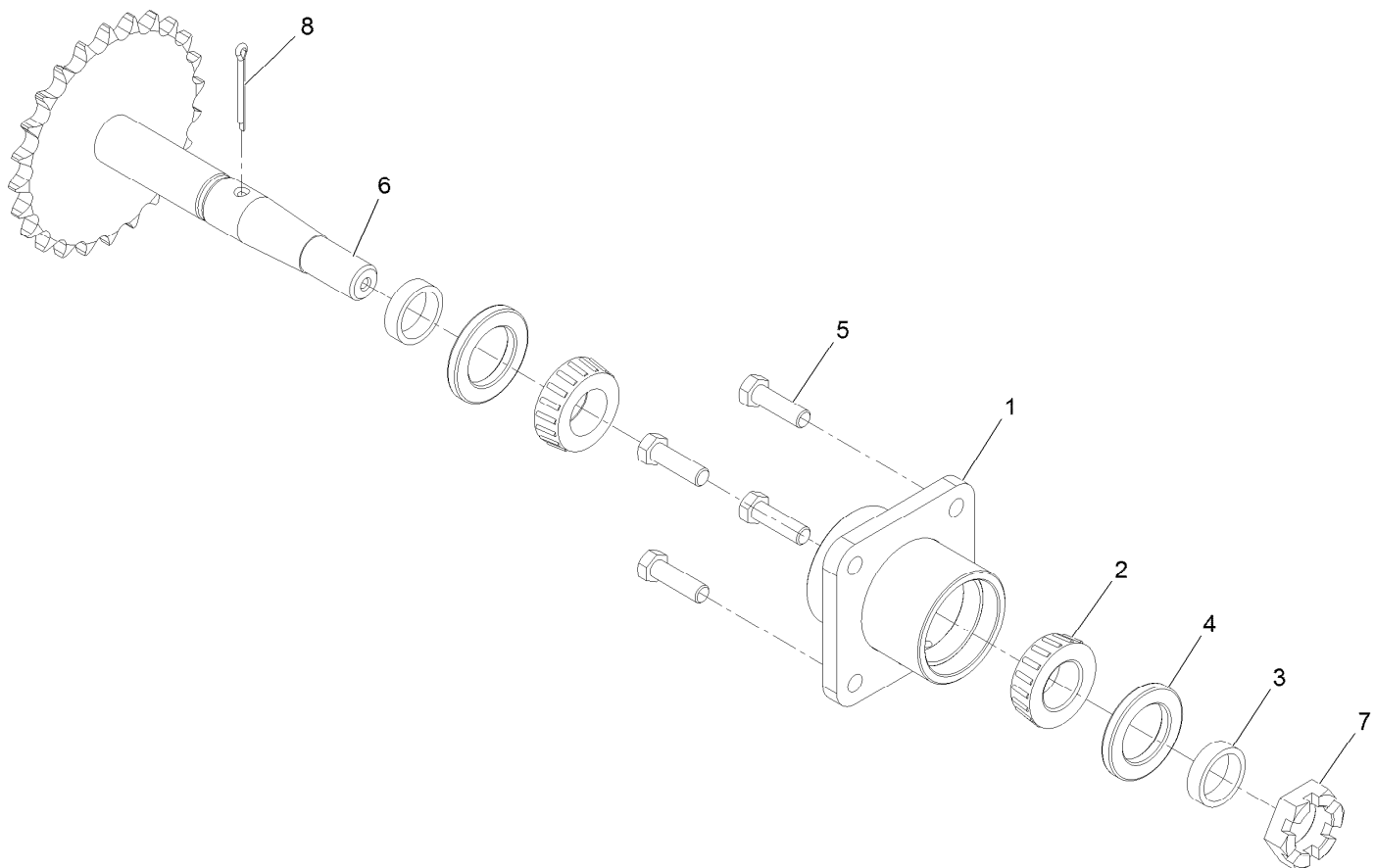
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 69   | 110-8561    | 1    | Pump Block ASM       |
| 70   | 104-5339    | 1    | Washer-Flat          |
| 71   | 104-5340    | 1    | Ring-Retaining       |
| 72   | 126-0788    | 1    | Gear-16T             |
| 73   | 114-1691    | 1    | Shaft-Motor          |
| 74   | 104-5360    | 1    | Washer               |
| 80   | 94-1933     | 2    | Washer               |
| 81   | 125-0000    | 1    | Gear-43T             |
| 82   | 120-7974    | 1    | Gear-11T             |
| 83   | 104-5329    | 1    | Pin-Jackshaft        |
| 90   | 104-2169    | 1    | Ring-Retaining       |
| 91   | 114-1694    | 1    | Gear-54T             |
| 92   | 120-7975    | 1    | Spacer               |
| 93   | 126-0789    | 1    | Bearing-Ball         |
| 95   | 120-7976    | 1    | Bearing-Ball         |
| 96   | 109-3537    | 1    | Seal Kit             |
| 100  | 114-1697    | 1    | Pawl-Brake           |
| 101  | 114-1698    | 1    | Shaft-Brake, Inboard |
| 102  | 125-0021    | 1    | Handle-Brake         |
| 103  | 103-9764    | 1    | Clip-Retaining       |
| 105  | 104-2120    | 3    | Screw                |



## LH Transaxle No. 116-9713 (continued)

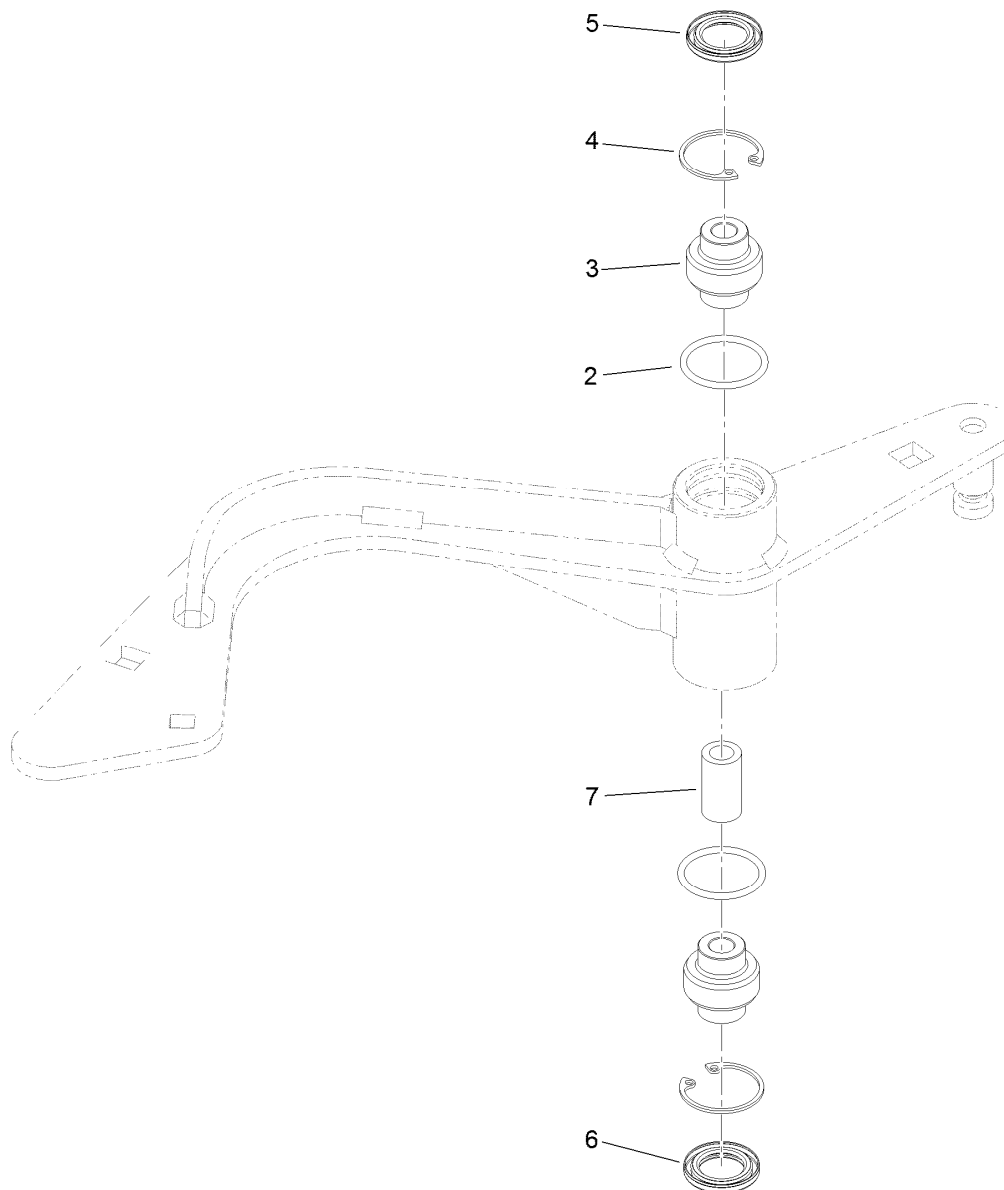
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 106  | 120-7981    | 1    | Guard-Filter, RH  |
| 111  | 109-3278    | 1    | Adapter-Straight  |
| 130  | 109-3537    | 2    | Seal Kit          |
| 140  | 114-8458    | 1    | Spacer            |
| 141  | 114-8474    | 1    | Arm-Neutral, Left |
| 142  | 106-8682    | 1    | Screw-Sh          |
| 147  | 115-8307    | 1    | Spring-Extension  |
| 157  | 109-3537    | 1    | Seal Kit          |
| 164  | 121-5745    | 1    | Spacer            |

| Ref. | Part Number | Qty. | Description                  |
|------|-------------|------|------------------------------|
| 200  | 109-3537    | 1    | Seal Kit                     |
| 201  | 120-7980    | 1    | LH Center Section Charge Kit |
| 202  | 114-8464    | 1    | Charge Relief Kit            |
| 203  | 114-8465    | 1    | Charge Kit                   |
| 210  | 117-5361    | 1    | Input Shaft Kit              |
| 211  | 126-0790    | 1    | Control Arm Kit              |
| 212  | 114-8470    | 1    | Axle Shaft Kit               |



## Axle and Bearing Assembly No. 116-9545

| Ref. | Part Number | Qty. | Description                 |
|------|-------------|------|-----------------------------|
| 1    | 116-6746-01 | 1    | Mount-Bearing, Wheel        |
| 2    | 1-543509    | 2    | Cone-Bearing Tapered Roller |
| 3    | 116-6758    | 2    | Spacer                      |
| 4    | 1-543511    | 2    | Seal-Grease                 |
| 5    | 323-7       | 4    | Screw-HH 3/8-16 X 1 1/4     |
| 6    | 126-0459    | 1    | Axle                        |
| 7    | 99-3139     | 1    | Nut                         |
| 8    | 1-806800    | 1    | Pin-Cotter 9/64 X 1 1/2     |



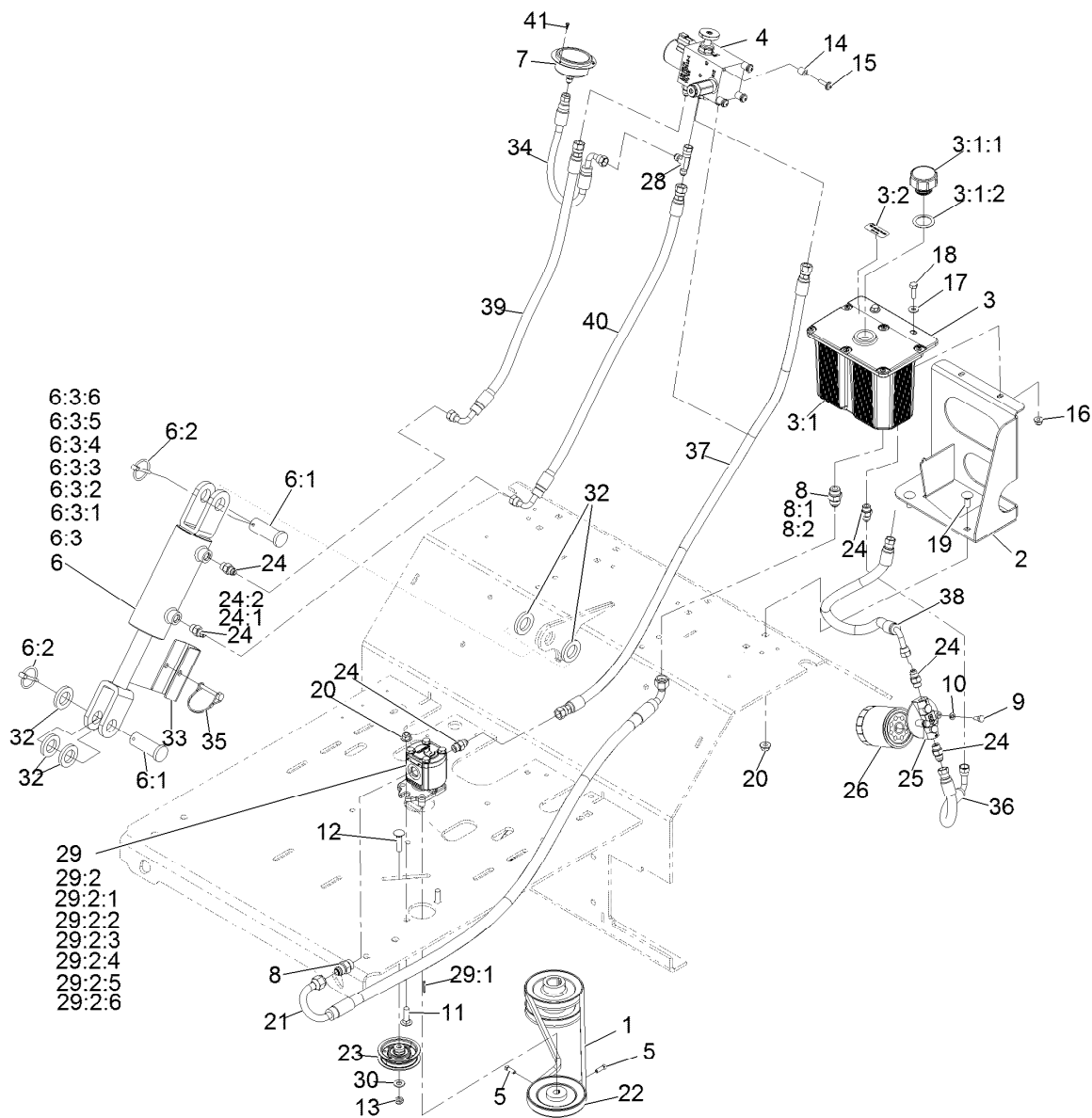
## Idler Arm Assembly No. 116-9307

| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 2    | 106-7159    | 2    | O-Ring            |
| 3    | 103-3504    | 2    | Bearing-Spherical |
| 4    | 32120-10    | 2    | Ring-Snap         |
| 5    | 103-3506    | 1    | Seal-Single Lip   |
| 6    | 103-3505    | 1    | Seal-Double Lip   |
| 7    | 1-603401    | 1    | Spacer-Fender     |



| <b>Ref.</b> | <b>Part Number</b> | <b>Qty.</b> | <b>Description</b>           |
|-------------|--------------------|-------------|------------------------------|
| 7           | 116-8178           | 1           | Gauge-Pressure               |
| 8           | 1-603990           | 2           | Adapter-Straight             |
| 8:1         | 1-603920           | 1           | O-Ring-Sae #8                |
| 8:2         | 1-603992           | 1           | O-Ring-37 Flare #8           |
| 9           | 321-3              | 2           | Screw-HH 1/4-20 X 5/8        |
| 10          | 1-805004           | 2           | Washer-Lock 1/4 Heavy        |
| 11          | 3231-25            | 2           | Bolt-Carriage 3/8-16 X 1 1/4 |
| 12          | 3231-4             | 1           | Bolt-Carriage 3/8-16 X 1 1/2 |
| 13          | 3296-59            | 1           | Nut-Nyloc 3/8-16 Thin        |
| 14          | 22-7810            | 4           | Spacer                       |
| 15          | 110-9361           | 4           | Screw-PPH, Sems              |
| 16          | 104-8300           | 2           | Nut-Nyloc 5/16-18 Flg        |
| 17          | 3256-2             | 2           | Washer-1/4 Std               |
| 18          | 322-5              | 2           | Screw-HH 5/16-18 X 1         |
| 19          | 3231-2             | 4           | Bolt-Carriage 3/8-16 X 1     |
| 20          | 104-8301           | 6           | Nut-Nyloc 3/8-16 Flg         |
| 21          | 116-9309           | 1           | Hose-Hydraulic               |
| 22          | 116-6667           | 1           | Pulley                       |
| 23          | 116-6760           | 1           | Pullev-Idler, Flat           |

■ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.

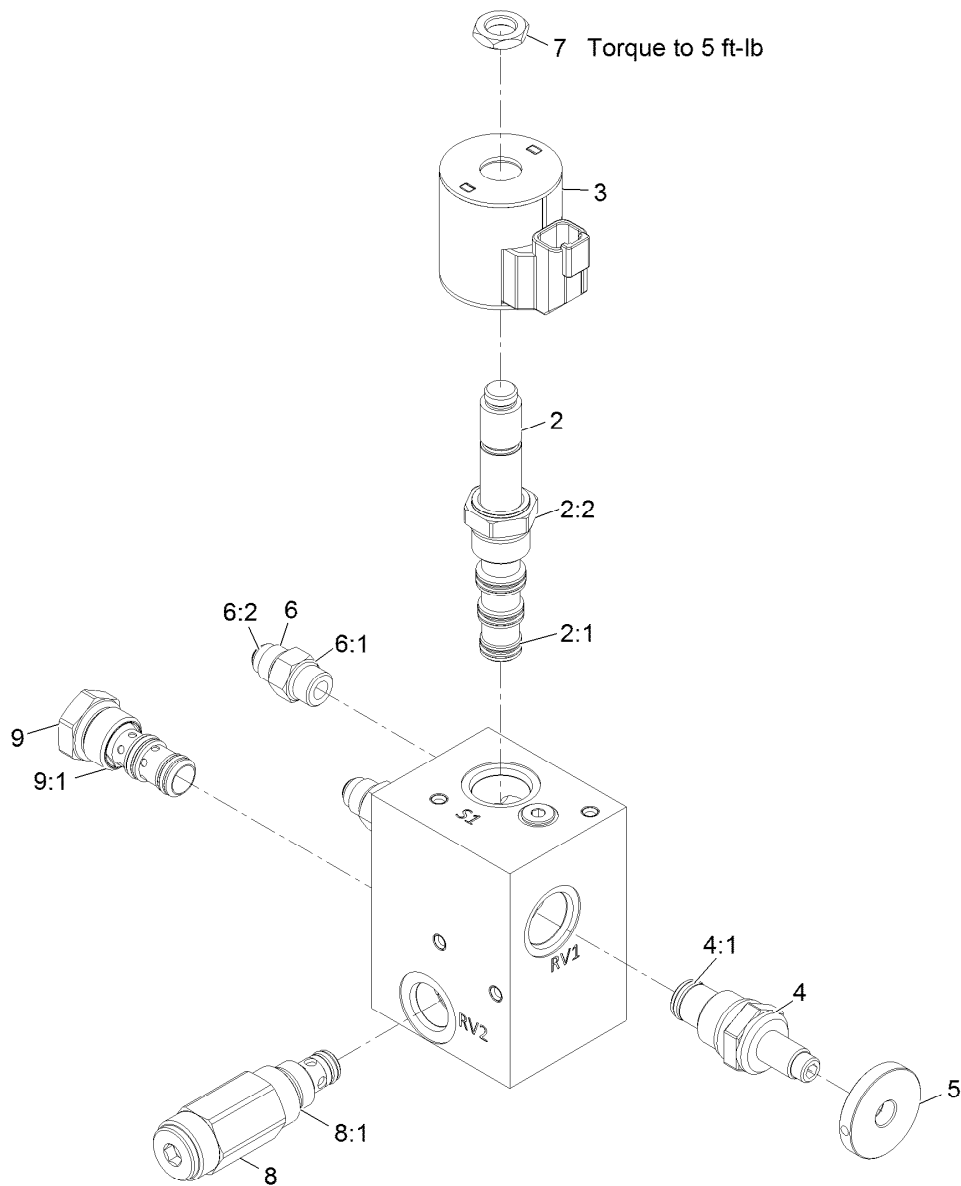


## Auxiliary Hydraulic Assembly (continued)

| Ref.   | Part Number | Qty. | Description               | Ref.   | Part Number | Qty. | Description                      |
|--------|-------------|------|---------------------------|--------|-------------|------|----------------------------------|
| 24     | 103-2156    | 6    | Adapter-Straight          | 29:2:5 |             | 1    | Seal ●                           |
| 24:1   | 1-603921    | 1    | O-Ring-Sae #6             | 29:2:6 |             | 2    | O-Ring ●                         |
| 24:2   | 103-1020    | 1    | O-Ring-37 Flare #6        | 30     | 3256-24     | 1    | Washer-3/8 Sae                   |
| 25     | 104-7836    | 1    | Filter-Head               | 32     | 116-6781    | 5    | Spacer                           |
| 26     | 109-4180    | 1    | Element, Oil Filter       | 33     | 116-7307-01 | 1    | Stop-Cylinder                    |
| 28     | 353-877     | 1    | Fitting-HYD, Tee (Swivel) | 34     | 116-8180    | 1    | Hose-Hydraulic, Hp               |
| 29     | 116-9129    | 1    | Hydraulic Pump ASM        | 35     | 112-2583    | 1    | Pin-Locking                      |
| 29:1   | 115-7855    | 1    | Key-Square                | 36     | 116-6675    | 1    | Hose-Hydraulic, LP               |
| 29:2   | 112-0199    | 1    | Seal Kit                  | 37     | 116-8151    | 1    | Hose-Hydraulic                   |
| 29:2:1 |             | 1    | Seal-Anti Extrusion ●     | 38     | 116-9308    | 1    | Hose-Hydraulic                   |
| 29:2:2 |             | 1    | Seal-Anti Extrusion ●     | 39     | 116-6677    | 1    | Hose-Hydraulic                   |
| 29:2:3 |             | 1    | Seal-Shaft ●              | 40     | 116-6678    | 1    | Hose-Hydraulic, Hp               |
| 29:2:4 |             | 1    | Seal-Upper ●              | 41     | 363-8552    | 3    | Screw-TAP,6-32X3/8,Phph,Stl,Rohs |

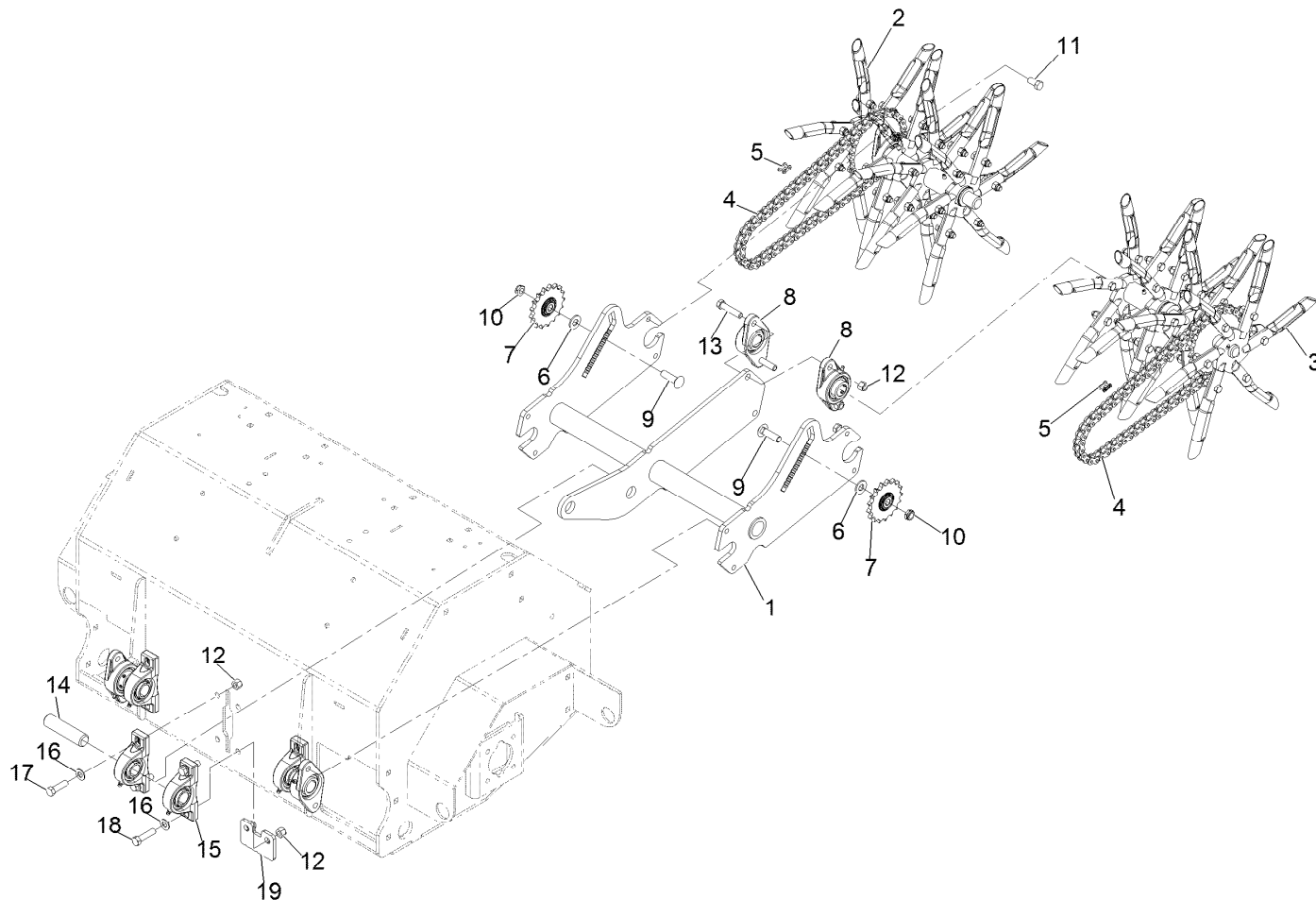
● Not serviced separately

■ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.



## Manifold W/Check and Relief Valve Assembly No. 116-9549

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 2    | 110-8906    | 1    | Valve-Solenoid             |
| 2:1  | 110-8908    | 1    | Spool Valve Seal Kit       |
| 2:2  | 110-2634    | 1    | Nut-Coil                   |
| 3    | 119-4619    | 1    | Coil-Solenoid              |
| 4    | 116-9397    | 1    | Valve-Relief, Poppet Style |
| 4:1  | 116-9398    | 1    | Relief Valve Seal Kit      |
| 5    | 116-9396    | 1    | Knob (1.5 Dia)             |
| 6    | 103-2156    | 4    | Adapter-Straight           |
| 6:1  | 1-603921    | 1    | O-Ring-Sae #6              |
| 6:2  | 103-1020    | 1    | O-Ring-37 Flare #6         |
| 7    | 110-2634    | 1    | Nut-Coil                   |
| 8    | 116-9716    | 1    | Valve-Relief               |
| 8:1  | 116-9717    | 1    | Seal Kit                   |
| 9    | 116-9718    | 1    | Valve-Check, P O           |
| 9:1  | 116-9719    | 1    | Seal Kit                   |

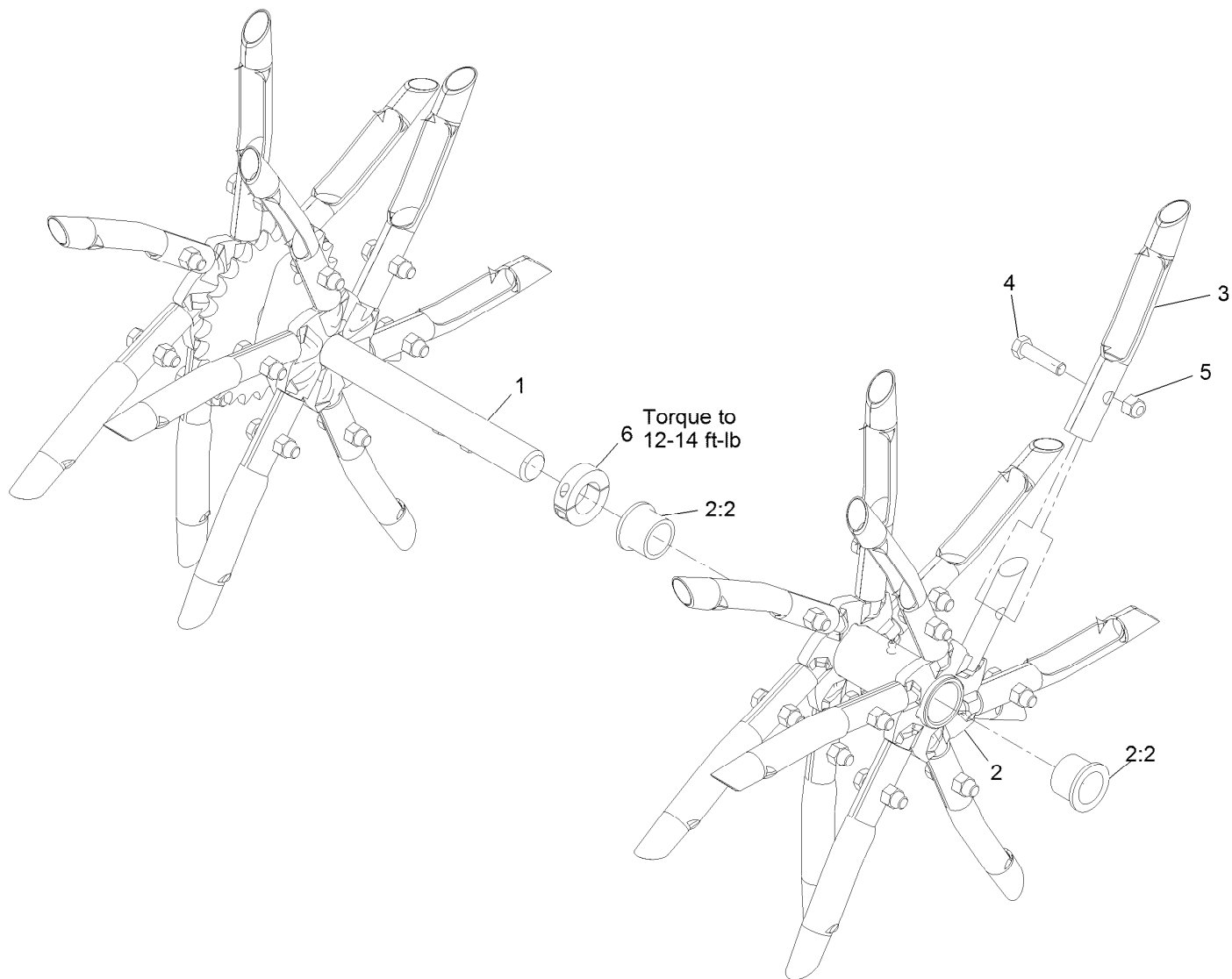


## Tine Assembly

| Ref. | Part Number | Qty. | Description                 |
|------|-------------|------|-----------------------------|
| 1    | 116-6553-03 | 1    | Arm-Trail                   |
| 2    | 116-6738    | 1    | RH Tine Wheel ASM           |
| 3    | 116-6739    | 1    | LH Tine Wheel ASM           |
| 4    | 116-6895    | 2    | Chain-Roller, #50, 65 Links |
| 5    | 116-6897    | 2    | Link-Connecting, #50        |
| 6    | 87-7270     | 2    | Washer-Thrust               |
| 7    | 116-6719    | 2    | Sprocket-Idler, 17T         |
| 8    | 116-6777    | 2    | Bearing-Flange, 2 Bolt      |
| 9    | 3233-14     | 2    | Screw-CARR                  |
| 10   | 3296-45     | 2    | Nut-Nyloc 1/2-13 Thin       |

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 11   | 116-7109    | 4    | Screw-HH ●               |
| 12   | 3296-48     | 6    | Nut-Nyloc 7/16-14        |
| 13   | 324-8       | 2    | Screw-HH                 |
| 14   | 116-6629    | 1    | Shaft                    |
| 15   | 116-6756    | 2    | Bearing-Pillow Block ●   |
| 16   | 3256-25     | 4    | Washer-7/16 Sae          |
| 17   | 324-6       | 2    | Screw-HH 7/16-14 X 1 1/2 |
| 18   | 324-7       | 2    | Screw-HH                 |
| 19   | 116-7327-01 | 1    | Plate-Downstop           |

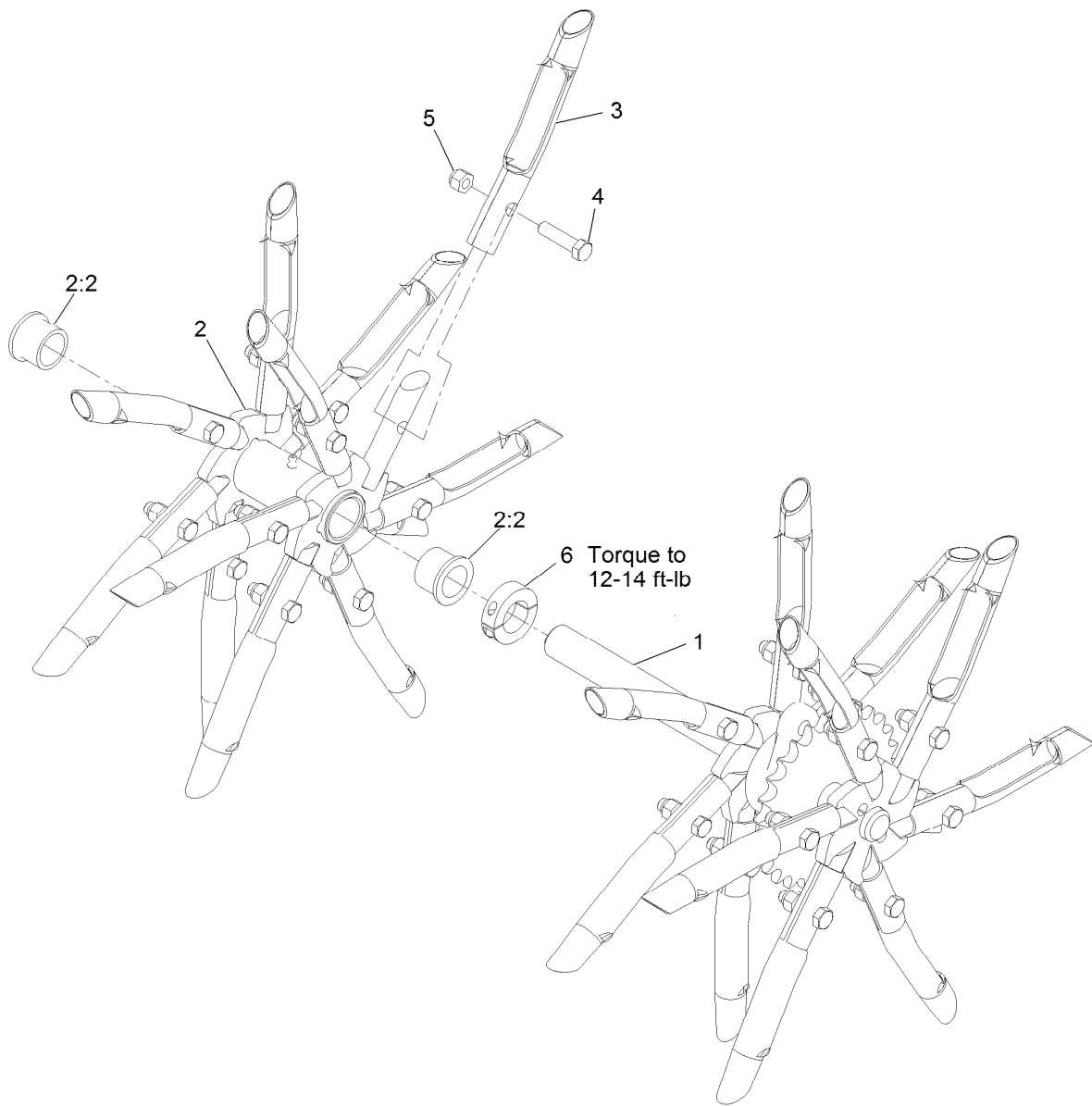
● Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.



## RH Tine Wheel Assembly No. 116-6738

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    | 116-6727    | 1    | Shaft-Tine, RH          |
| 2    | 116-6731    | 1    | Float Tine Shaft ASM    |
| 2:2  | 94-8949     | 2    | Bushing-Flange          |
| 3    | 126-2143    | 24   | Tine-Coring (3/4)       |
| 4    | 323-8       | 24   | Screw-HH 3/8-16 X 1 1/2 |
| 5    | 3296-39     | 24   | Nut-Nyloc 3/8-16        |
| 6    | 116-7271    | 1    | Collar-Locking ●        |

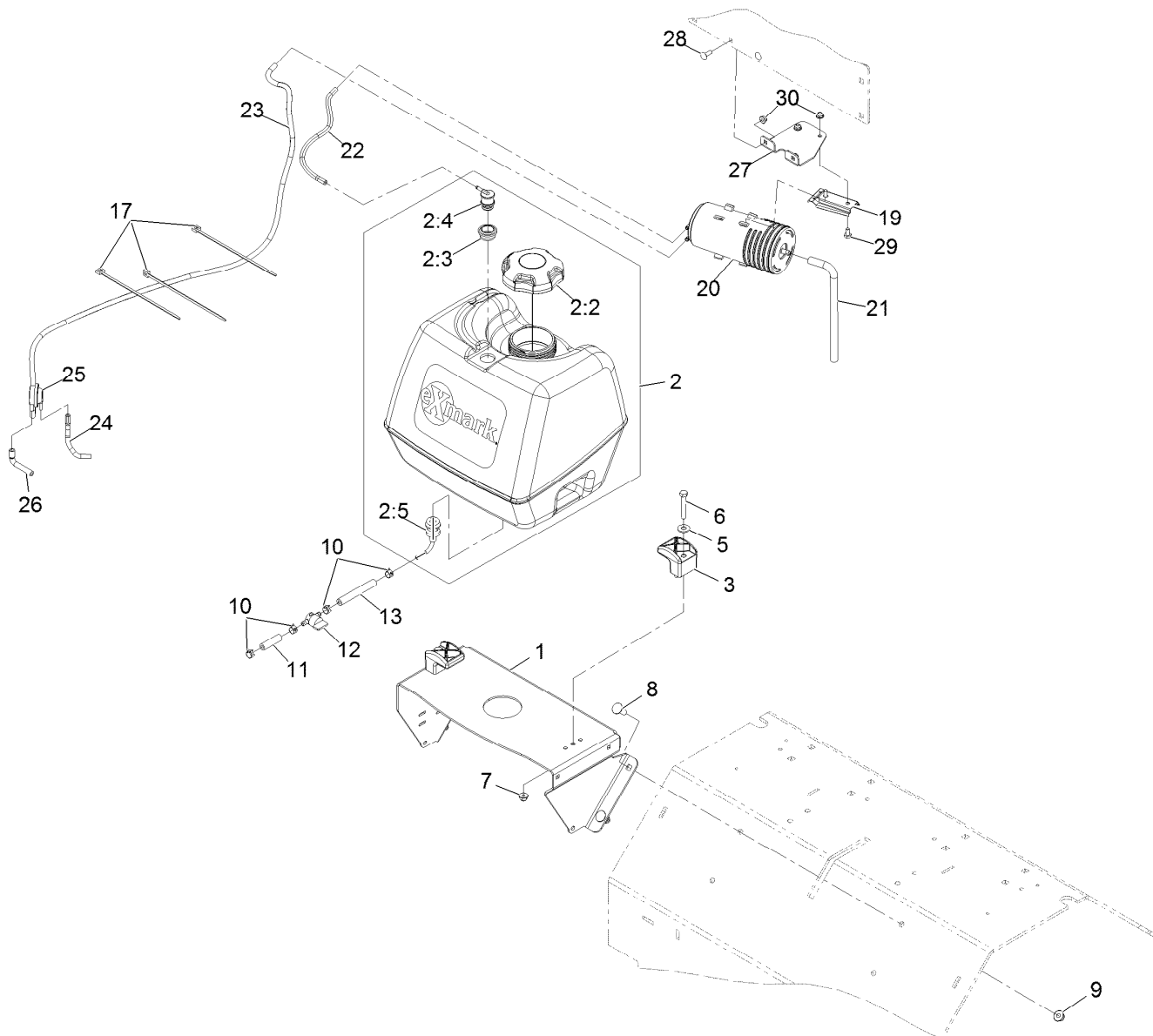
● Use Loctite® 243 on threads.



## LH Tine Wheel Assembly No. 116-6739

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    | 116-6728    | 1    | Shaft-Tine, LH          |
| 2    | 116-6731    | 1    | Float Tine Shaft ASM    |
| 2:2  | 94-8949     | 2    | Bushing-Flange          |
| 3    | 126-2143    | 24   | Tine-Coring (3/4)       |
| 4    | 323-8       | 24   | Screw-HH 3/8-16 X 1 1/2 |
| 5    | 3296-39     | 24   | Nut-Nyloc 3/8-16        |
| 6    | 116-7271    | 1    | Collar-Locking ●        |

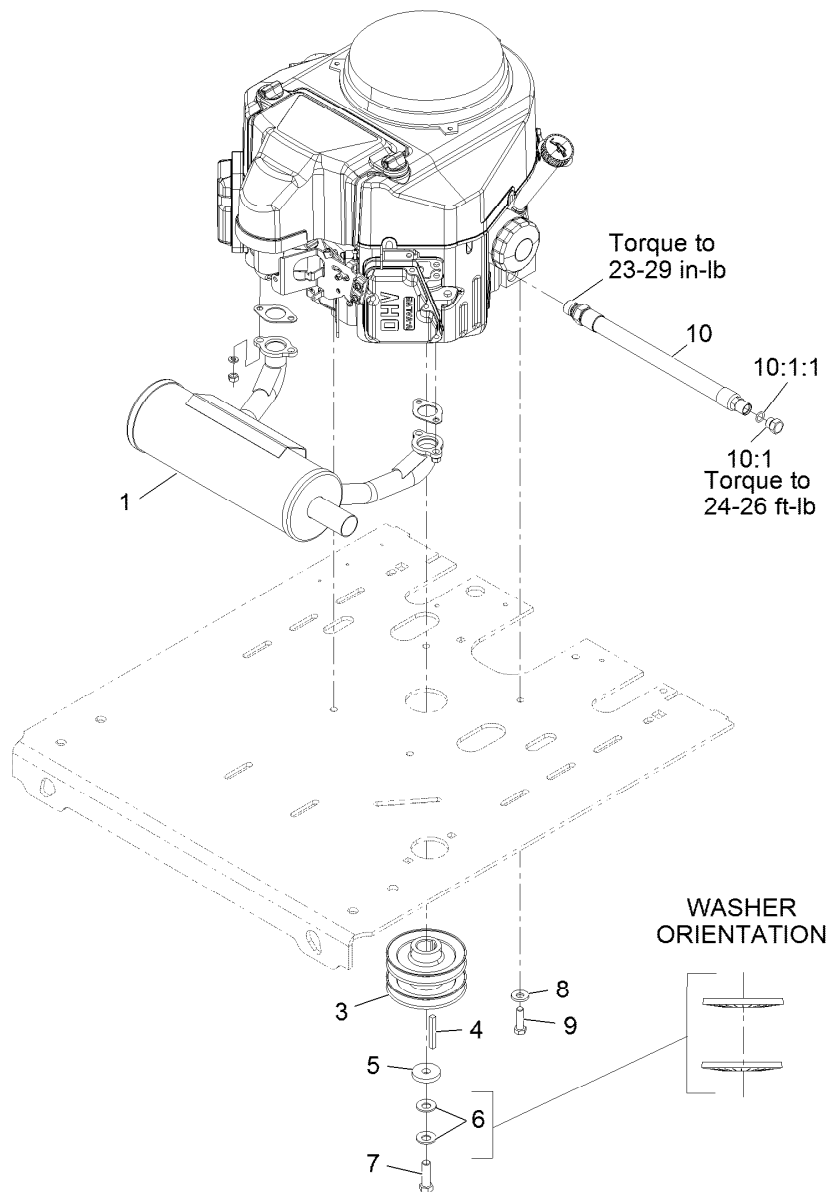
● Use Loctite® 243 on threads.



## Fuel Assembly

| Ref. | Part Number | Qty. | Description                         |
|------|-------------|------|-------------------------------------|
| 1    | 116-9541-01 | 1    | Support-Tank, Fuel                  |
| 2    | 126-1525    | 1    | ASM, Fuel Tank                      |
| 2:2  | 120-5461    | 1    | Cap-Fuel, Ratcheting                |
| 2:3  | 114-0284    | 1    | Grommet                             |
| 2:4  | 119-3547    | 1    | Valve-Vent, Fuel                    |
| 2:5  | 103-2605    | 1    | Fitting-Fuel Bulkhead<br>W/Strainer |
| 3    | 107-4543    | 2    | Clamp                               |
| 5    | 3256-3      | 2    | Washer-5/16 Std                     |
| 6    | 322-10      | 2    | Screw-HH 5/16-18 X 2                |
| 7    | 104-8300    | 2    | Nut-Nyloc 5/16-18 Flg               |
| 8    | 3231-22     | 4    | Bolt-Carriage 3/8-16 X 1            |
| 9    | 104-8301    | 4    | Nut-Nyloc 3/8-16 Flg                |
| 10   | 2412-98     | 4    | Clamp-Hose                          |
| 11   | 119-7856    | 1    | Hose-Fuel                           |

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 12   | 1-603770    | 1    | Valve-Fuel                 |
| 13   | 105-8342    | 1    | Hose-Fuel                  |
| 17   | 1-303335    | 3    | Tie-Cable 7 15/16 (Large)  |
| 19   | 114-0292    | 1    | Bracket-Canister, Carbon   |
| 20   | 117-1221    | 1    | Canister-Carbon, 800Cc     |
| 21   | 115-0962    | 1    | Hose-Vent, Canister        |
| 22   | 126-3703    | 1    | Hose-Emissions             |
| 23   | 116-3116    | 1    | Hose-Vent, Formed          |
| 24   | 116-2394    | 1    | Hose-Vent, Formed          |
| 25   | 116-2232    | 1    | Valve-Control, Vacuum      |
| 26   | 116-2233    | 1    | Hose-Vent, Formed          |
| 27   | 126-2991-03 | 1    | Bracket-Mounting, Canister |
| 28   | 3229-1      | 2    | Bolt-Carriage 1/4-20 X 3/4 |
| 29   | 321-2       | 2    | Screw-HH 1/4-20 X 1/2      |
| 30   | 104-7201    | 4    | Nut-Nyloc 1/4-20 Flg       |

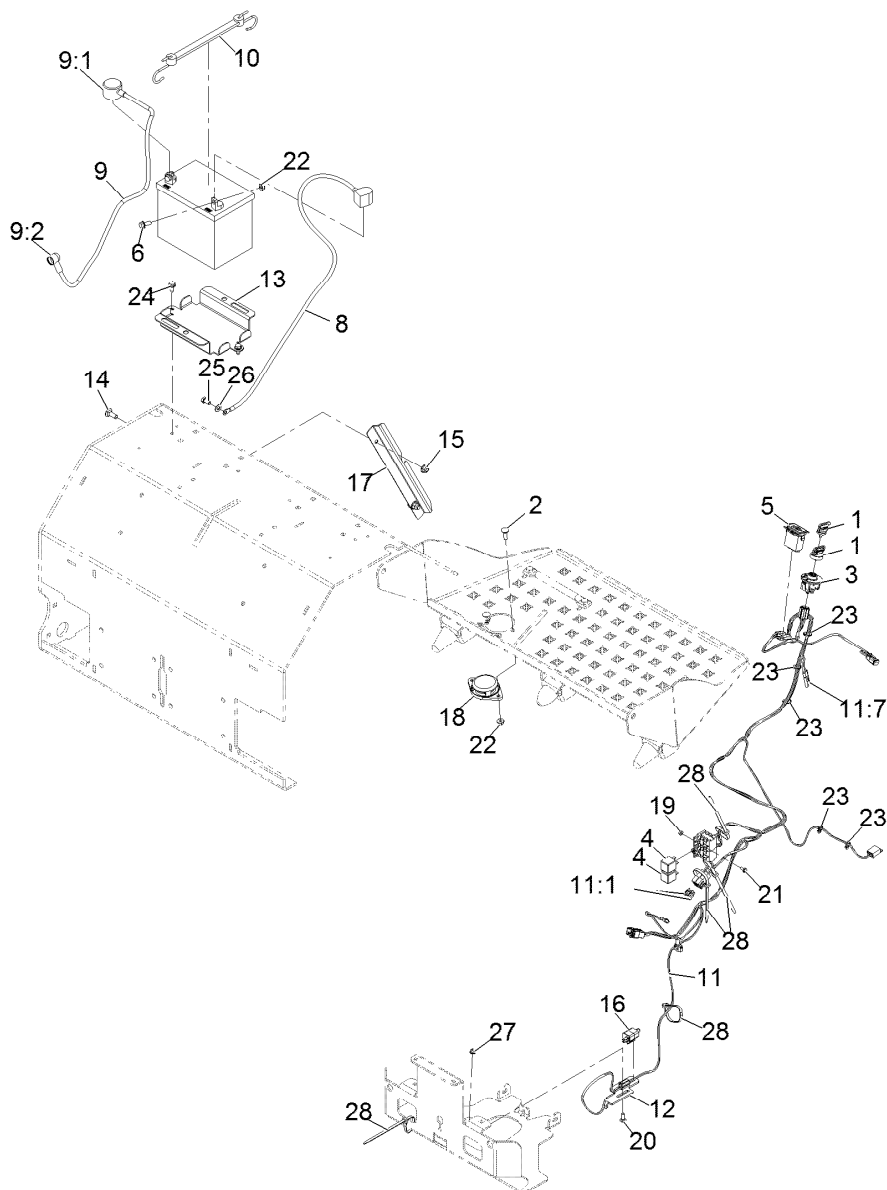


## Engine Assembly

| Ref.   | Part Number | Qty. | Description                          |
|--------|-------------|------|--------------------------------------|
| 1      | 116-3735    | 1    | Muffler-Horizontal                   |
| 3      | 116-9709    | 1    | Pulley                               |
| 4      | 103-4177    | 1    | Key                                  |
| 5      | 1-543610    | 1    | Washer                               |
| 6      | 1-603610    | 2    | Washer-Spring Disc 7/16              |
| 7      | 109-9761    | 1    | Screw-HH 7/16-20 X 1 1/2 W/Loctite ■ |
| 8      | 98-5975     | 4    | Washer-Spring Disc 3/8               |
| 9      | 323-7       | 4    | Screw-HH 3/8-16 X 1 1/4              |
| 10     | 116-4924    | 1    | Asm-Hose Oil Drain W/Plug ●          |
| 10:1   | 353-508     | 1    | Plug-W/O-Ring                        |
| 10:1:1 | 237-42      | 1    | O-Ring                               |

● Use a Teflon Pipe Sealant or equivalent on threads.

■ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.



## Electrical Assembly

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 1    | 1-603511    | 1    | Key-Ignition               |
| 1    | 103-2106    | 1    | Key-Exmark Logo            |
| 2    | 3230-2      | 2    | Bolt-Carriage 5/16-18 X 1  |
| 3    | 117-2221    | 1    | Switch-Ignition            |
| 4    | 1-643275    | 2    | Relay-12Vdc 40 Amp         |
| 5    | 1-513374    | 1    | Meter-Engine Hours         |
| 6    | 3234-5      | 2    | Screw-HH Flg 5/16-18 X 3/4 |
| 8    | 117-6422    | 1    | Cable-Battery, Black       |
| 9    | 109-7630    | 1    | Positive Battery Cable ASM |
| 9:1  | 109-2407    | 1    | Insulator-Battery          |
| 9:2  | 1-543393    | 1    | Insulator-Solenoid         |
| 10   | 104-2466    | 1    | Holddown-Battery           |
| 11   | 116-9382    | 1    | Harness ASM ●              |
| 11:1 | 1-816001    | 2    | Fuse-Blade Type, 20 Amp    |
| 11:7 | 116-0053    | 1    | Cap-Plug                   |
| 12   | 116-7589    | 1    | Mount-Switch               |
| 13   | 116-9383-03 | 1    | Bracket-Battery            |

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 14   | 3231-2      | 2    | Bolt-Carriage 3/8-16 X 1   |
| 15   | 104-8301    | 2    | Nut-Nyloc 3/8-16 Flg       |
| 16   | 110-6765    | 1    | Switch                     |
| 17   | 116-9394-03 | 1    | Guard-Harness              |
| 18   | 92-6282     | 1    | Switch-Seat                |
| 19   | 3296-2      | 2    | Nut-Nyloc #10-24           |
| 20   | 3229-1      | 1    | Bolt-Carriage 1/4-20 X 3/4 |
| 21   | 3290-321    | 2    | Screw-HWH                  |
| 22   | 104-8300    | 4    | Nut-Nyloc 5/16-18 Flg      |
| 23   | 1-303287    | 5    | Tie-Cable 5 1/2 (Small)    |
| 24   | 32144-70    | 2    | Screw-HWH 5/16-18 X 3/4 Tf |
| 25   | 33114-016   | 1    | Screw-HH M8-1.25 X 16Mm    |
| 26   | 33094-00    | 1    | Washer                     |
| 27   | 104-7201    | 1    | Nut-Nyloc 1/4-20 Flg       |
| 28   | 1-303335    | 5    | Tie-Cable 7 15/16 (Large)  |

● Use dielectric grease on all unsealed connectors and terminals only. Do not apply in sealed connectors.

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| FULL SUSPENSION SEAT               | SUN SHADE                       |
| DECK LIFT ASSIST KIT               | TRASH CONTAINER                 |
| HITCH KIT                          | TURF STRIPER                    |
| LIGHT KIT                          | ULTRA VAC COLLECTION SYSTEM     |
| 12V POWER PORT                     | ULTRA VAC QUICK DISPOSAL SYSTEM |
| MICRO-MULCH SYSTEM                 |                                 |

### OUT-FRONT RIDING ACCESSORIES AND OPTIONS

|                                    |                                 |
|------------------------------------|---------------------------------|
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| DUAL-TAIL WHEEL                    | SNOWBLOWER                      |
| FLOOR PAN EXTENDER                 | SUN SHADE                       |
| HITCH KIT                          | TRASH CONTAINER                 |
| LIGHT KIT                          | ULTRA VAC COLLECTION SYSTEM     |
| MICRO-MULCH SYSTEM                 | ULTRA VAC QUICK DISPOSAL SYSTEM |
| ROLL OVER PROTECTION SYSTEM (ROPS) | WEATHER CAB                     |

### WALK-BEHIND ACCESSORIES AND OPTIONS

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| GRASS CATCHER      | TURF STRIPER |
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\*Some accessories and options not available for some models.

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Serial No. \_\_\_\_\_

Date Purchased \_\_\_\_\_

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Engine Serial No. (E/No) \_\_\_\_\_

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