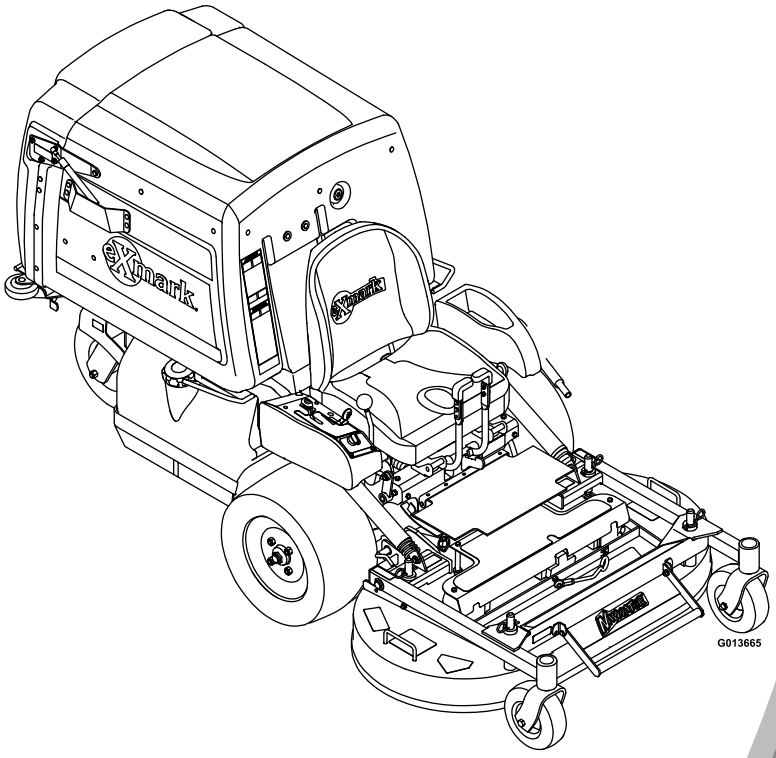
# Parts Manual

# NAVIGATOR®

**Model No. NV20KC—Serial No. 920000 and Up**

**Picture below may not reflect actual product.**




Part No. 4500-706 Rev. 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.

# List of Abbreviations

**AR:** as required

**ASM:** assembly

**BBC:** blade brake control

**BHTF:** button head thread forming

**CARR:** carriage

**CCW:** counter clockwise

**CW:** clockwise

**DEG:** degrees

**DPA:** Dual Point Adjustment

**ECM:** electronic control module

**EXT:** external

**FH:** flat head

**GA:** gauge

**HD:** heavy-duty

**HF:** hex flange

**HH:** hex head

**HHF:** hex head flange

**HHFTF:** hex head flange thread forming

**HJ:** hex jam

**HLH:** hex lag head

**HOC:** height-of-cut

**HSBH:** hex socket button head

**HSFH:** hex socket flat head

**HSH:** hex socket head

**HWH:** hex washer head

**HWHTF:** hex washer head thread forming

**HYD:** hydraulic

**LH:** left hand

**LP:** Liquid Propane

**NI:** nylon insert

**NPTF:** national pipe thread fine

**PFH:** phillips flat head

**PPH:** phillips pan head

**PPHTF:** phillips pan head thread forming

**PRH:** phillips round head

**PTH:** phillips truss head

**PTO:** power-take-off

**RH:** right hand

**ROPS:** roll-over protection system

**RRB:** rear roller brush

**SFH:** slotted fillister head

**SHH:** slotted hex head

**SHWH:** slotted hex washer head

**SPH:** slotted pan head

**SQH:** square head

**SRH:** slotted round head

**STD:** standard

**TAP:** self tapping

**TTH:** torx truss head

# 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).

**© 2011—Exmark Mfg. Co., Inc.**
**Industrial Park Box 808**
**Beatrice, NE 68310**



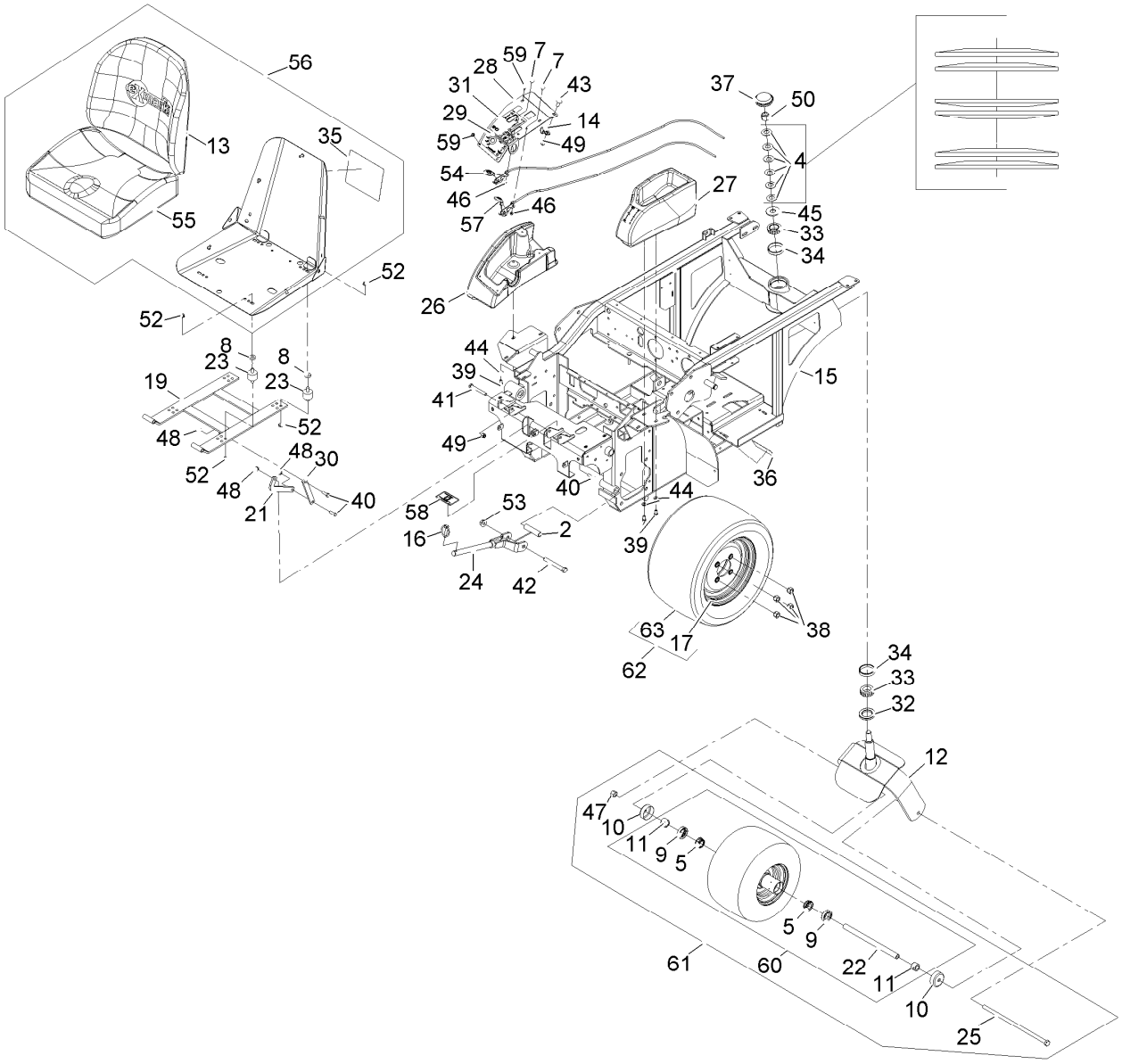
**Contact us at www.Exmark.com.**
**Printed in the USA.**
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If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE Guaranteed!! (Some restrictions apply. See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

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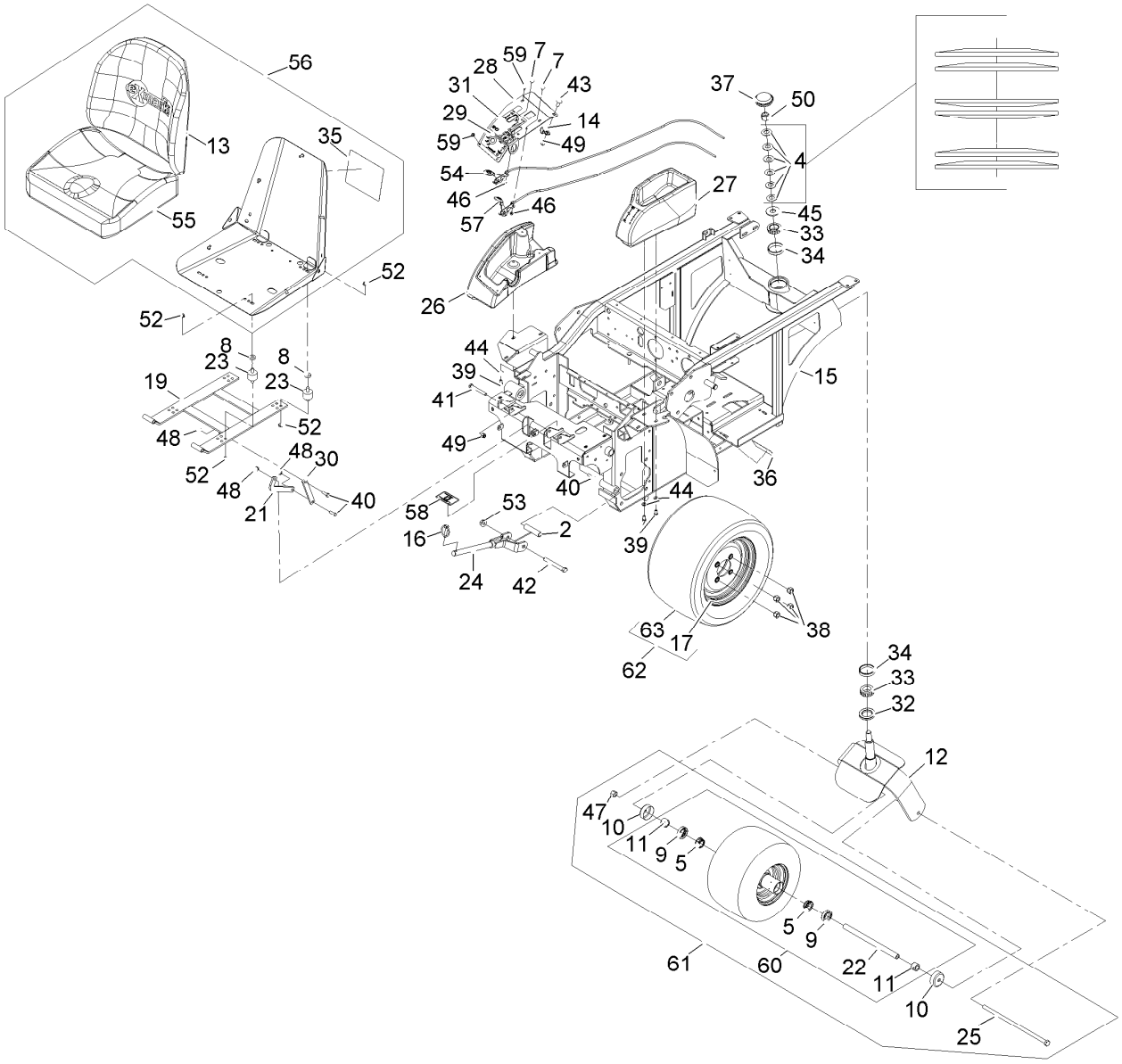



# Seat, Tires and Consoles Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 2 | 1-633060 | 2 | Spacer-Wheel, Short |
| 4 | 1-633508 | 6 | Washer-Spring Disc |
| 5 | 1-633585 | 2 | Bearing-Cone Tapered Roller |
| 7 | 1-807513 | 4 | Bolt-Carriage #10-24 X 1/2 |
| 8 | 5-0652 | 4 | Spacer |
| 9 | 103-0063 | 2 | Seal-Double Lip |
| 10 | 103-2768 | 2 | Guard-Seal |
| 11 | 103-3051 | 2 | Spacer-Nut ■ |
| 12 | 103-3351-03 | 1 | Wld, Rear Caster Fork |
| 13 | 116-3738 | 1 | Cushion,Seat Back |
| 14 | 1-643312 | 1 | Clip-Loom |
| 15 | 116-4850 | 1 | Asm, Mainframe W/Decals |
| 16 | 103-4155 | 2 | Pin-Lynch |
| 17 | 103-4318 | 2 | Asm, Wheel |
| 19 | 103-4362-03 | 1 | Wld, Seat Frame Std |
| 21 | 103-5181 | 1 | Link-Seat Stop, Lower |
| 22 | 103-5302 | 1 | Axle, Caster |
| 23 | 103-5496 | 4 | Mount-Vibration, Rubber |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 24 | 103-6596-03 | 2 | Wld, Push Rod |
| 25 | 103-7738 | 1 | Screw-HH 1/2-13 X 13 |
| 26 | 103-8143 | 1 | Console, RH |
| 27 | 103-8146 | 1 | Console, LH |
| 28 | 116-4859 | 1 | Panel, Control Console |
| 29 | 103-8451 | 1 | Decal, Ignition/Speed Control |
| 30 | 103-8563 | 1 | Link, Seat |
| 31 | 109-4638 | 1 | Decal, Console |
| 32 | 103-9027 | 1 | Grease Seal |
| 33 | 103-9028 | 2 | Cone-Bearing Taper Roller |
| 34 | 103-9029 | 2 | Cup-Bearing Tapered Roller |
| 35 | 116-1175 | 1 | Decal, Service Aid |
| 36 | 103-9034 | 1 | Decal, Clutch Adjustment |
| 37 | 103-9057 | 1 | Cap, Grease |
| 38 | 242-50 | 8 | Nut-Lug 1/2-20 |
| 39 | 322-2 | 6 | Screw-HH 5/16-18 X 5/8 |
| 40 | 322-5 | 3 | Screw-HH 5/16-18 X 1 |
| 41 | 323-14 | 2 | Screw-HH 3/8-16 X 3 |

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

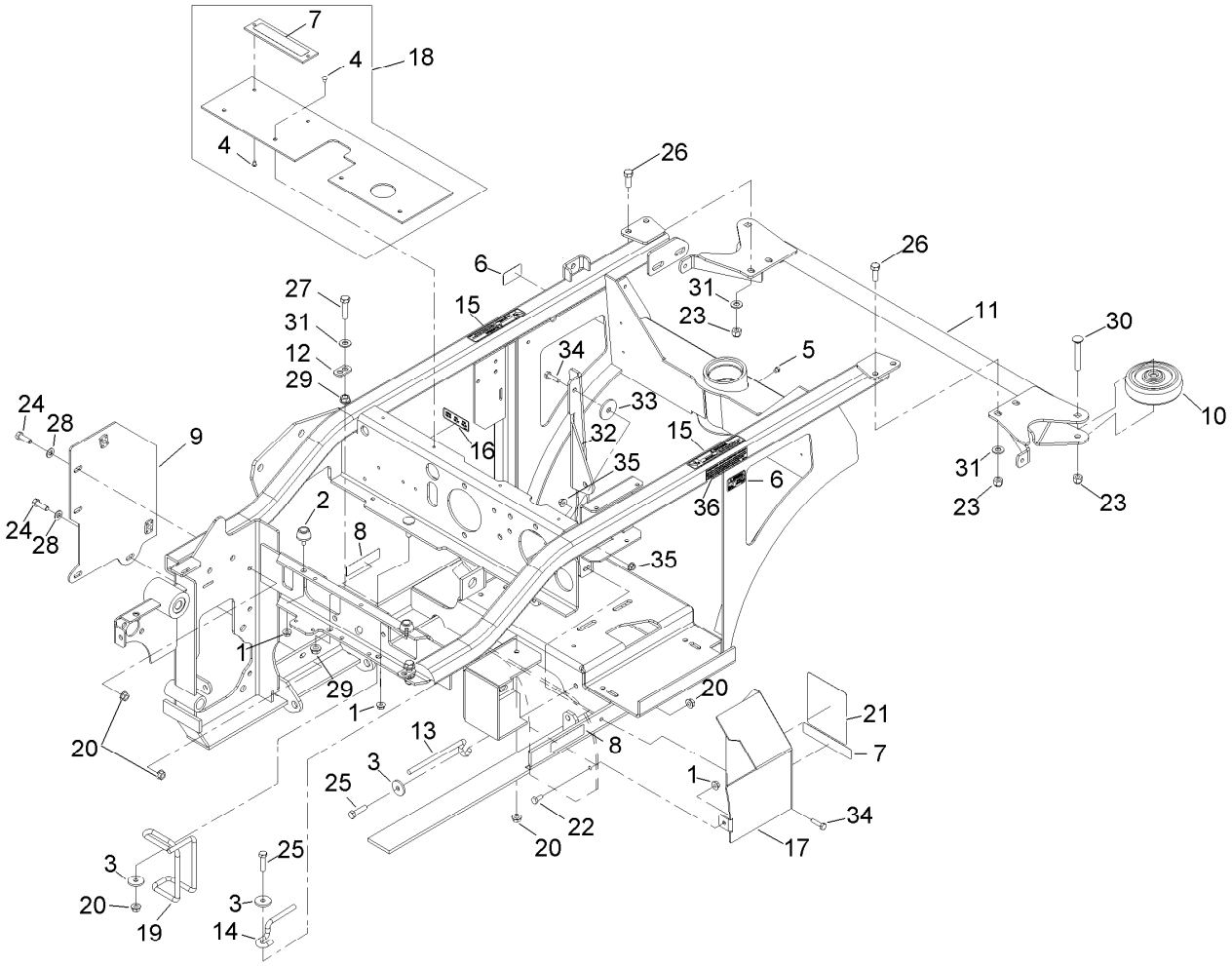



# Seat, Tires and Consoles Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 42 | 325-17 | 2 | Screw-HH 1/2-13 X 4 |
| 43 | 3231-27 | 1 | Bolt-Carriage 3/8-16 X 7/8 |
| 44 | 3256-23 | 6 | Washer-5/16 Sae |
| 45 | 3256-8 | 1 | Washer |
| 46 | 3296-2 | 4 | Nut-Nyloc #10-24 |
| 47 | 3296-23 | 1 | Nut-Nyloc 1/2-13 |
| 48 | 3296-29 | 3 | Nut-Nyloc 5/16-18 |
| 49 | 3296-39 | 3 | Nut-Nyloc 3/8-16 |
| 50 | 3296-51 | 1 | Nut-Nyloc 3/4-10 |
| 52 | 32128-20 | 8 | Nut-Whizlock 5/16-18 |
| 53 | 32128-49 | 2 | Nut-Whizlock 1/2-13 |
| 54 | 109-4640 | 1 | Cable, Choke |
| 55 | 116-4848 | 1 | Cushion, Seat Bottom/W Switch |

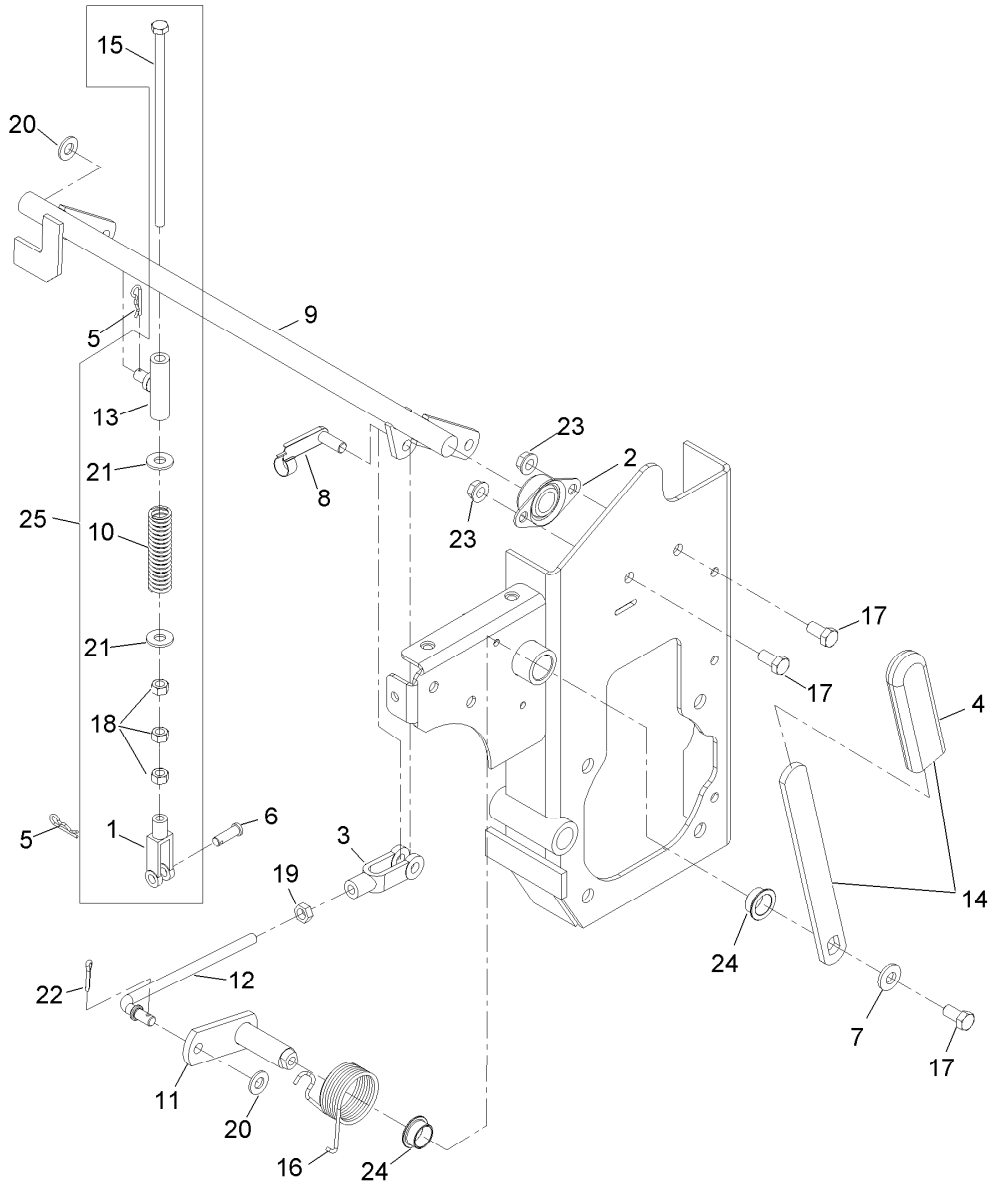
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 56 | 116-4849 | 1 | Asm, Seat |
| 57 | 109-4641 | 1 | Cable, Throttle |
| 58 | 109-4273 | 1 | Decal, Wheel Motor |
| 59 | 109-2661 | 4 | Screw-PPH #10-24 X 1/2 |
| 60 | 103-5305 | 1 | Asm, Wheel, Tire & Brg 13X8.00-6 Sp |
| 61 | 103-9494 | 1 | Asm, Rear Caster Wheel W/Axle |
| 62 | 103-4319 | 2 | Asm, Wheel & Tire 18X10.50-10 |
| 62 | 103-4321 | 2 | Asm, Wheel & Tire 18X8.50-10 ● |
| 63 | 105-1945 | 2 | Tire |
| 63 | 103-4320 | 2 | Tire ● |

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




# Main Frame Assembly

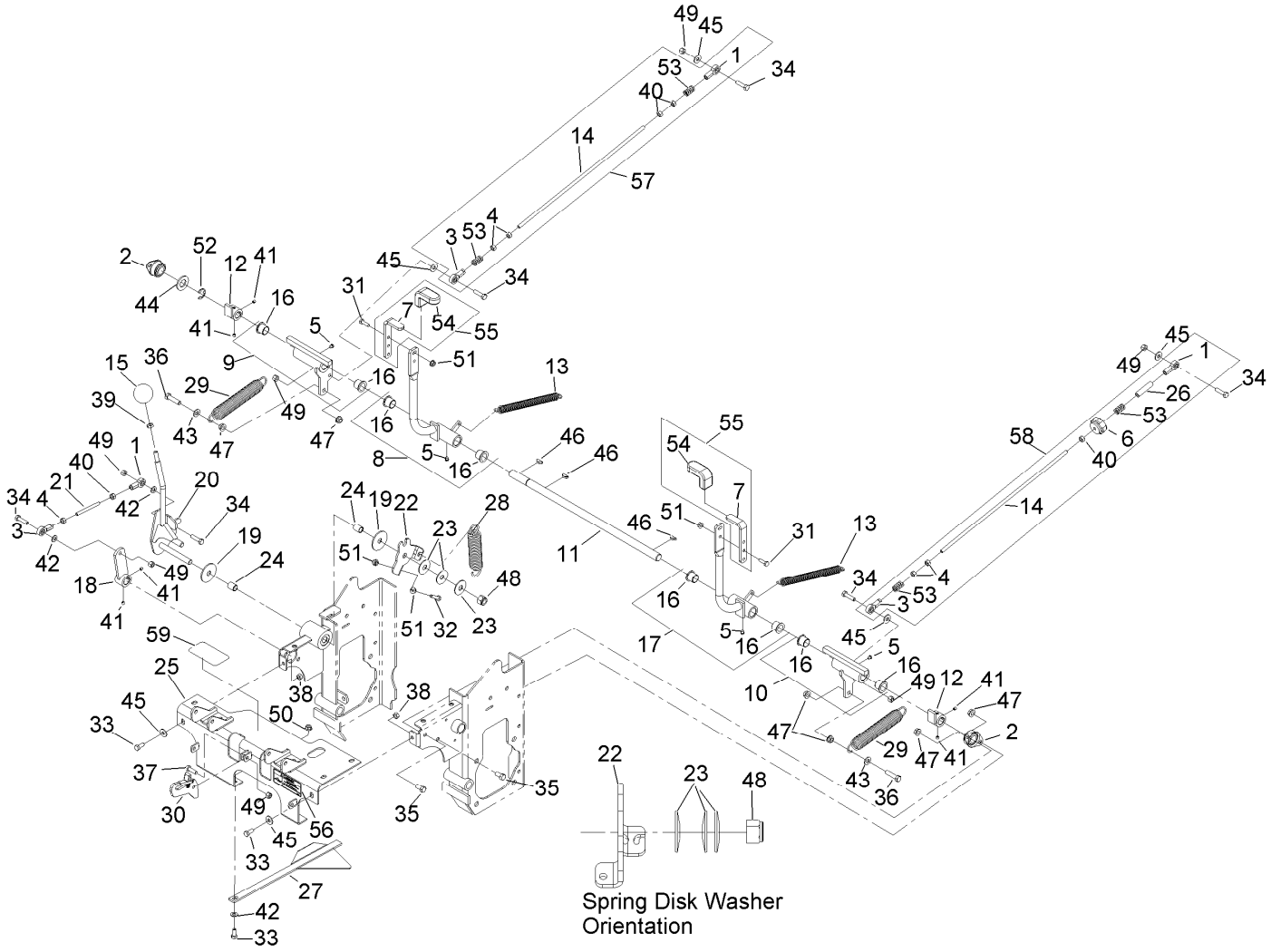
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 32128-33 | 5 | Nut-Whizlock 1/4-20 |
| 2 | 109-2365 | 2 | Rubber Bumper ASM (W/Stud) |
| 3 | 1-613235 | 3 | Washer |
| 4 | 1-803035 | 6 | Rivet 3/16 X 1/4 |
| 5 | 1-811010 | 1 | Plug |
| 6 | 65-2690 | 2 | Decal-Surface, Hot |
| 7 | 98-4361 | 2 | Decal-Warning |
| 8 | 98-5954 | 2 | Decal-Cover, Missing |
| 9 | 109-2487-03 | 1 | Wld, Fender |
| 10 | 103-5408 | 2 | Wheel |
| 11 | 109-0925-03 | 1 | Wld, Bumper Rear |
| 12 | 103-6537 | 2 | Tab, Spring Anchor |
| 13 | 103-8333 | 1 | Guide, Belt |
| 14 | 103-8349 | 1 | Guide, Belt |
| 15 | 103-8495 | 2 | Decal, Pinch Point |
| 16 | 103-8611 | 1 | Decal, Relay |
| 17 | 103-9475 | 1 | Asm Drive, Shield |
| 18 | 103-9476 | 1 | Asm, Shield W/Decal |
| 19 | 103-9022 | 1 | Guide, Belt |
| 20 | 32128-20 | 7 | Nut-Whizlock 5/16-18 |
| 21 | 103-9274 | 1 | Decal, Belt Routings |
| 22 | 321-3 | 1 | Screw-HH 1/4-20 X 5/8 |
| 23 | 3296-39 | 6 | Nut-Nyloc 3/8-16 |
| 24 | 322-5 | 4 | Screw-HH 5/16-18 X 1 |
| 25 | 322-6 | 2 | Screw-HH 5/16-18 X 1 1/4 |
| 26 | 323-6 | 4 | Screw-HH 3/8-16 X 1 |
| 27 | 323-8 | 2 | Screw-HH 3/8-16 X 1 1/2 |
| 28 | 3256-23 | 4 | Washer-5/16 Sae |
| 29 | 3290-357 | 4 | Nut-Whizlock 3/8-16 |
| 30 | 3231-31 | 2 | Bolt-Carriage 3/8-16 X 2 1/2 |
| 31 | 3256-24 | 6 | Washer-3/8 Sae |
| 32 | 109-5874-03 | 1 | Brace, PTO |
| 33 | 1-213069 | 1 | Washer |
| 34 | 321-6 | 2 | Screw-HH 1/4-20 X 1 |
| 35 | 32128-33 | 5 | Nut-Whizlock 1/4-20 |
| 36 | 117-2718 | 1 | Decal-Arrester, Spark |




# Park Brake Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 1-303105 | 2 | Yoke-Adjustable |
| 2 | 1-633102 | 2 | Bearing-Flanged |
| 3 | 1-633131 | 1 | Yoke-Linkage, Brake |
| 4 | 1-633268 | 1 | Grip-Lever |
| 5 | 1-806003 | 4 | Hairpin-Cotter |
| 6 | 1-808280 | 2 | Pin-Clevis 5/16 X 1 49/64 |
| 7 | 98-5975 | 1 | Washer-Spring Disc 3/8 |
| 8 | 103-2399 | 1 | Pin-Clevis Spring 3/8 |
| 9 | 103-4383-03 | 1 | Wld, Brakeshaft |
| 10 | 103-4388 | 2 | Spring |
| 11 | 103-4390 | 1 | Wld, Brake Pivot |
| 12 | 103-4399 | 1 | Rod, Linkage Brake |
| 13 | 103-6576 | 2 | Wld, Swivel Brake |

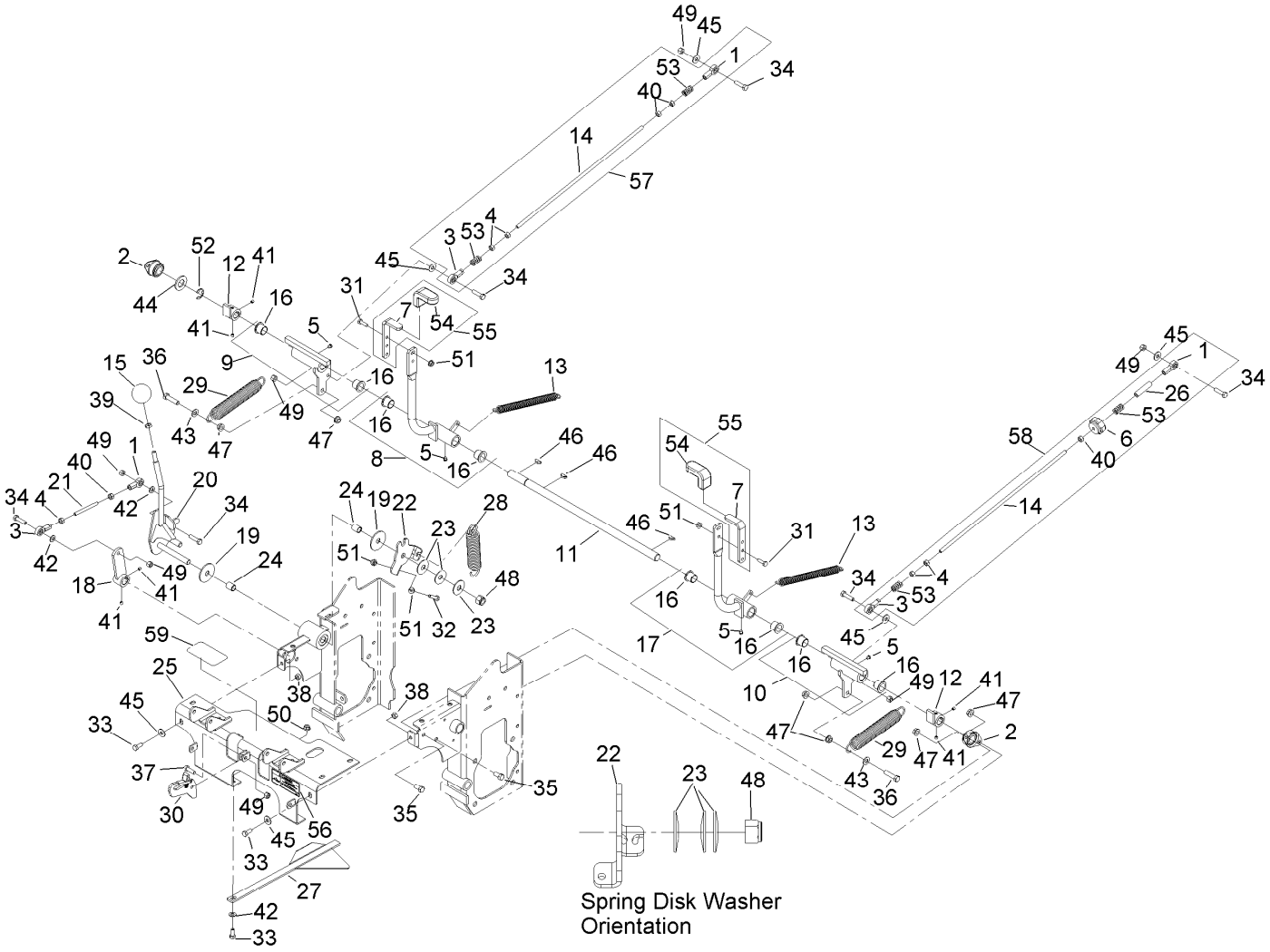
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 14 | 103-9469 | 1 | Asm, Park Brake Handle W/Grip |
| 15 | 103-7377 | 2 | Screw-HH 5/16-24 X 7 3/4 |
| 16 | 103-9915 | 1 | Spring, Torsion RH |
| 17 | 323-4 | 5 | Screw-HH 3/8-16 X 3/4 |
| 18 | 3219-2 | 6 | Nut-Hex 5/16-24 |
| 19 | 3219-3 | 1 | Nut-Hex 3/8-24 |
| 20 | 3256-24 | 3 | Washer-3/8 Sae |
| 21 | 3256-3 | 4 | Washer-5/16 Std |
| 22 | 3272-10 | 1 | Pin-Cotter 1/8 X 3/4 |
| 23 | 3290-357 | 4 | Nut-Whizlock 3/8-16 |
| 24 | 108519 | 2 | Bushing-Bronze |
| 25 | 109-0714 | 2 | Asm, Brake Linkage |




# Speed Controls Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 1-543017 | 3 | Balljoint |
| 2 | 1-633102 | 2 | Bearing-Flanged |
| 3 | 1-633152 | 3 | Balljoint |
| 4 | 1-804524 | 5 | Nut-Hex 5/16-24 (LH) |
| 5 | 1-811010 | 4 | Plug |
| 6 | 103-3060 | 1 | Knob-Tracking |
| 7 | 103-9468 | 2 | Asm, Handle W/Grip |
| 8 | 103-9730 | 1 | Asm, Steering Lever W/Bearings (RH) |
| 9 | 103-9731 | 1 | Asm, Actuator W/Bearings (RH) |
| 10 | 103-9732 | 1 | Asm, Actuator W/Bearings (LH) |
| 11 | 103-4278 | 1 | Shaft, Speed Control |
| 12 | 103-4342-03 | 2 | Wld, Hub Speed Control |
| 13 | 103-4373 | 2 | Spring, Extension |
| 14 | 103-4377 | 2 | Linkage, Rod Steering (LH) |
| 15 | 103-4397 | 1 | Knob, Speed Control |
| 16 | 103-4398 | 8 | Bearing, Flange Iglide |
| 17 | 103-9733 | 1 | Asm, Steering Lever W/Bearings (LH) |

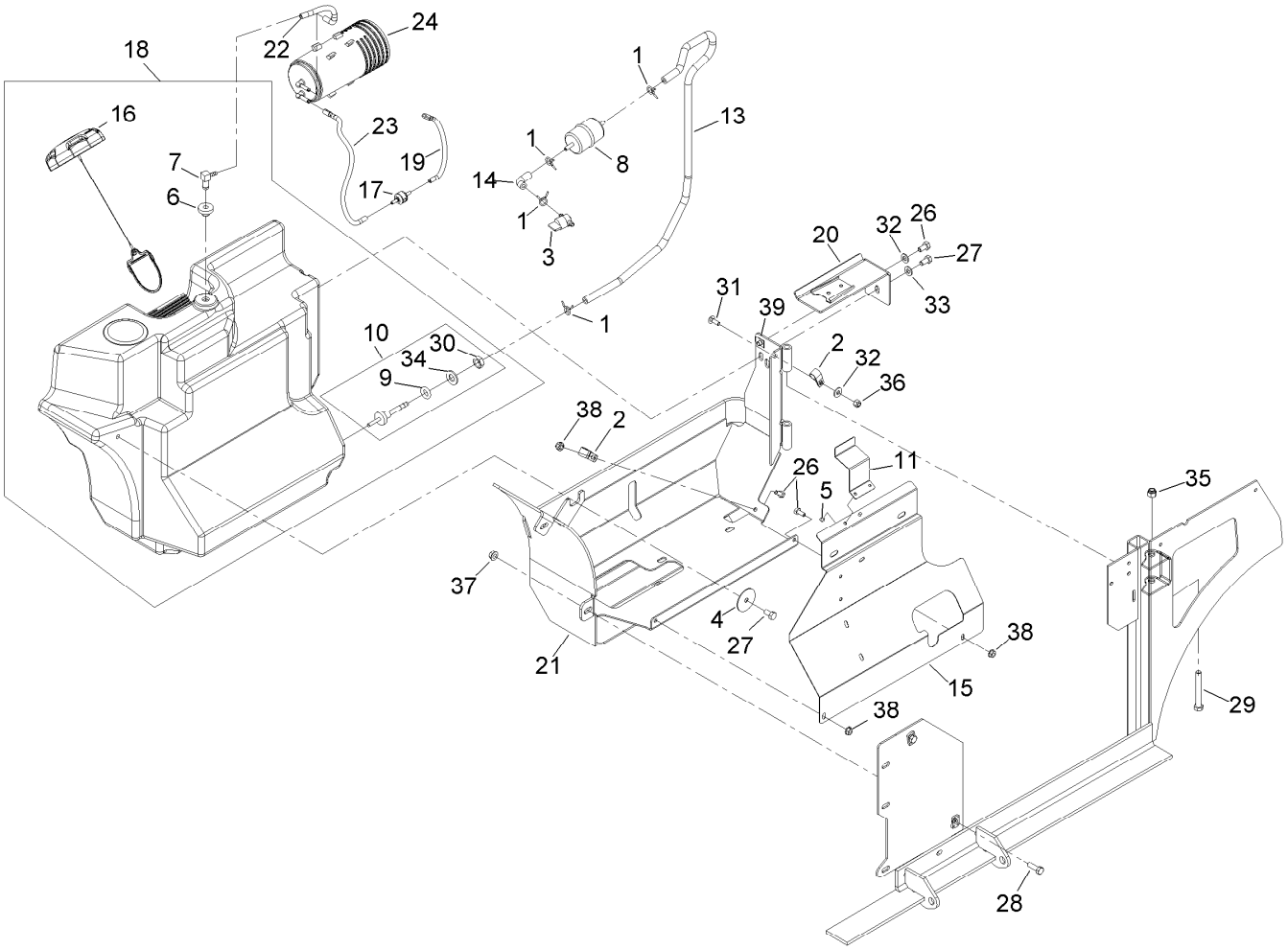
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 18 | 103-5008 | 1 | Wld, Control Arm |
| 19 | 103-5009 | 2 | Disc, Friction |
| 20 | 103-5013 | 1 | Wld, Speed Control Lever |
| 21 | 103-5016 | 1 | Rod, Threaded Control Link |
| 22 | 103-5017 | 1 | Plate, Speed Control Friction |
| 23 | 103-5018 | 3 | Washer-Spring Disc |
| 24 | 103-5064 | 2 | Bearing-Plastic 1/2 |
| 25 | 109-5927 | 1 | Asm, Console W/Decals |
| 26 | 103-5945 | 1 | Spacer |
| 27 | 103-5993-03 | 1 | Guide, Plenum |
| 28 | 103-6078 | 1 | Spring, Extension |
| 29 | 103-6532 | 2 | Spring, Extension |
| 30 | 103-8494 | 1 | Hook |
| 31 | 321-5 | 4 | Screw-HH 1/4-20 X 7/8 |
| 32 | 321-8 | 1 | Screw-HH 1/4-20 X 1 1/4 |
| 33 | 322-3 | 6 | Screw-HH 5/16-18 X 3/4 |
| 34 | 322-6 | 6 | Screw-HH 5/16-18 X 1 1/4 |
| 35 | 323-4 | 4 | Screw-HH 3/8-16 X 3/4 |
| 36 | 323-8 | 2 | Screw-HH 3/8-16 X 1 1/2 |
| 37 | 322-5 | 1 | Screw-HH 5/16-18 X 1 |




# Speed Controls Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 38 | 3217-6 | 2 | Nut-Hex 5/16-18 |
| 39 | 3218-3 | 1 | Nut-Jam 3/8-16 |
| 40 | 3219-2 | 4 | Nut-Hex 5/16-24 |
| 41 | 3245-1 | 6 | Screw-Set, HSH |
| 42 | 3256-23 | 3 | Washer-5/16 Sae |
| 43 | 3256-24 | 2 | Washer-3/8 Sae |
| 44 | 3256-28 | 1 | Washer-3/4 Sae |
| 45 | 3256-3 | 9 | Washer-5/16 Std |
| 46 | 3257-5 | 3 | Key-Woodruff #9 3/4 X 3/16 |
| 47 | 3290-357 | 8 | Nut-Whizlock 3/8-16 |
| 48 | 3296-19 | 1 | Nut-Nyloc 1/2-20 |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 49 | 3296-29 | 7 | Nut-Nyloc 5/16-18 |
| 50 | 32128-20 | 1 | Nut-Whizlock 5/16-18 |
| 51 | 32128-33 | 6 | Nut-Whizlock 1/4-20 |
| 52 | 32151-48 | 1 | E-Ring |
| 53 | 1-323245 | 4 | Spring-Compression |
| 54 | 103-5994 | 2 | Grip, Steering Handle |
| 55 | 103-9468 | 2 | Asm, Handle W/Grip |
| 56 | 103-8425 | 1 | Decal-Driveline |
| 57 | 103-9493 | 1 | Asm, Pump Linkage (RH) |
| 58 | 103-9492 | 1 | Asm, Pump Linkage (LH) |
| 59 | 109-4273 | 1 | Decal, Wheel Motor |

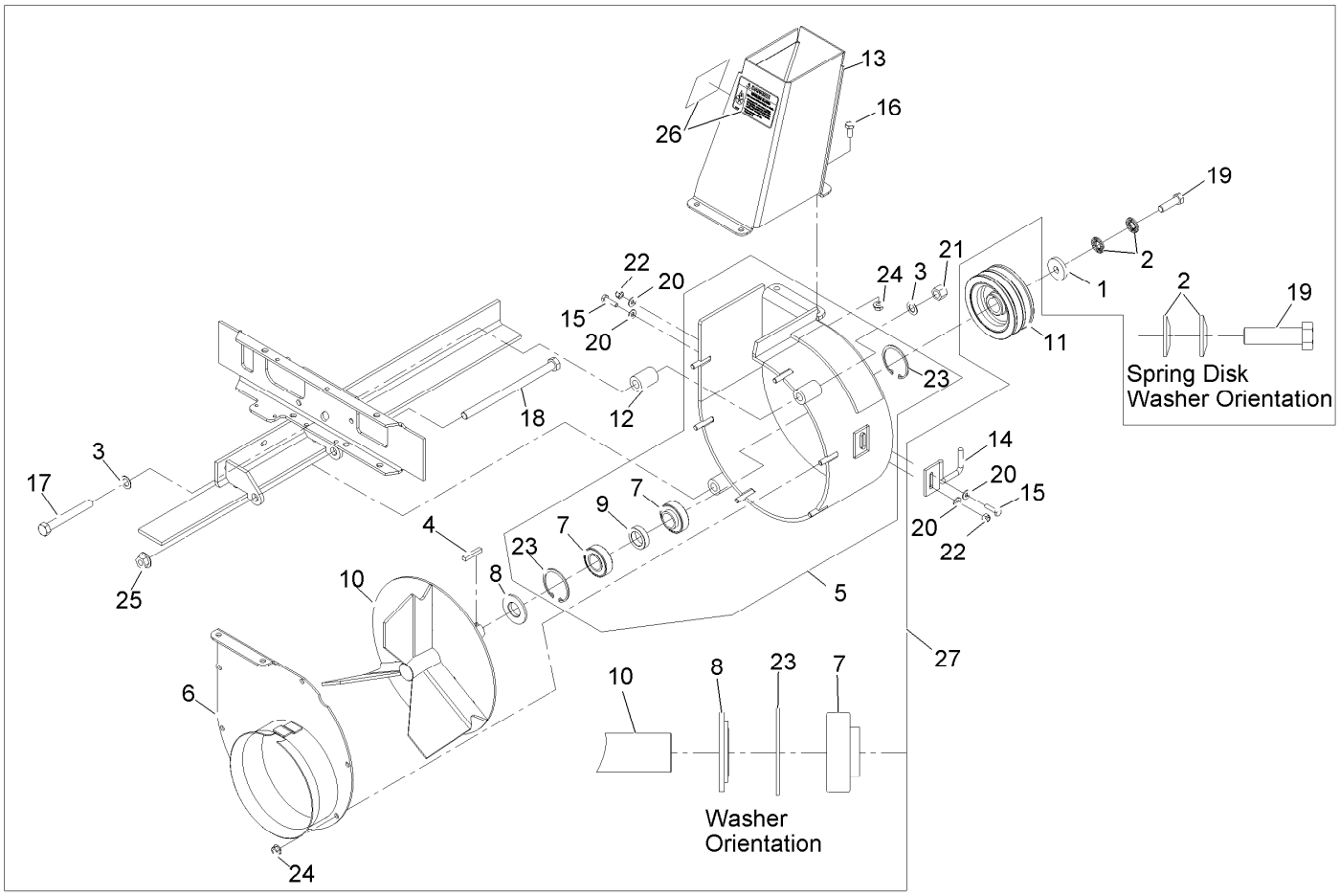



# Fuel Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 1-303077 | 6 | Clamp-Fuel Line |
| 2 | 1-513762 | 2 | Clip-Loom 1/2 |
| 3 | 1-603770 | 1 | Valve-Fuel |
| 4 | 1-653036 | 1 | Washer |
| 5 | 1-803035 | 2 | Rivet 3/16 X 1/4 |
| 6 | 46-6560 | 1 | Bushing |
| 7 | 100-1596 | 1 | Fitting-90 DEG |
| 8 | Kohler | 1 | Part No. 2405010 Fuel Filter ● |
| 9 | 103-2784 | 1 | O-Ring |
| 10 | 103-6057 | 1 | Fitting-Fuel Bulkhead W/Screen ■ |
| 11 | 116-4037 | 1 | Bracket-Tank Shield |
| 13 | 109-0284 | 1 | Hose-Fuel Line 29" |
| 14 | 109-0304 | 2 | Hose-Fuel Line 2 1/2" |
| 15 | 116-4032 | 1 | Panel, Tank Shield |
| 16 | 120-5461 | 1 | Cap-Fuel, Ratcheting |
| 17 | 115-7868 | 1 | Valve-Check, Vacuum |
| 18 | 116-4030 | 1 | Asm, Fuel Tank |
| 19 | 116-2619 | 1 | Hose,Formed 5" |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 20 | 116-2847 | 1 | Asm, Canister Bracket |
| 21 | 116-2848 | 1 | Asm, Tank Frame |
| 22 | 116-2966 | 1 | Hose, Vent, Low Perm |
| 23 | 116-2967 | 1 | Hose, Purge, Low Perm |
| 24 | 117-1221 | 1 | Canister-Carbon, 800Cc |
| 26 | 321-3 | 4 | Screw-HH 1/4-20 X 5/8 |
| 27 | 322-3 | 2 | Screw-HH 5/16-18 X 3/4 ■ |
| 28 | 322-5 | 2 | Screw-HH 5/16-18 X 1 ▲ |
| 29 | 323-14 | 2 | Screw-HH 3/8-16 X 3 |
| 30 | 3220-5 | 1 | Nut-Jam 1/2-20 |
| 31 | 3229-1 | 1 | Bolt-Carriage 1/4-20 X 3/4 |
| 32 | 3256-22 | 2 | Washer-1/4 Sae |
| 33 | 3256-23 | 2 | Washer-5/16 Sae |
| 34 | 3256-26 | 1 | Washer-1/2 Sae |
| 35 | 3296-39 | 2 | Nut-Nyloc 3/8-16 |
| 36 | 3296-42 | 1 | Nut-Nyloc 1/4-20 |
| 37 | 32128-20 | 2 | Nut-Whizlock 5/16-18 |
| 38 | 32128-33 | 3 | Nut-Whizlock 1/4-20 |
| 39 | 107069 | 1 | Nut-Retainer-Panel 1/4-20 |

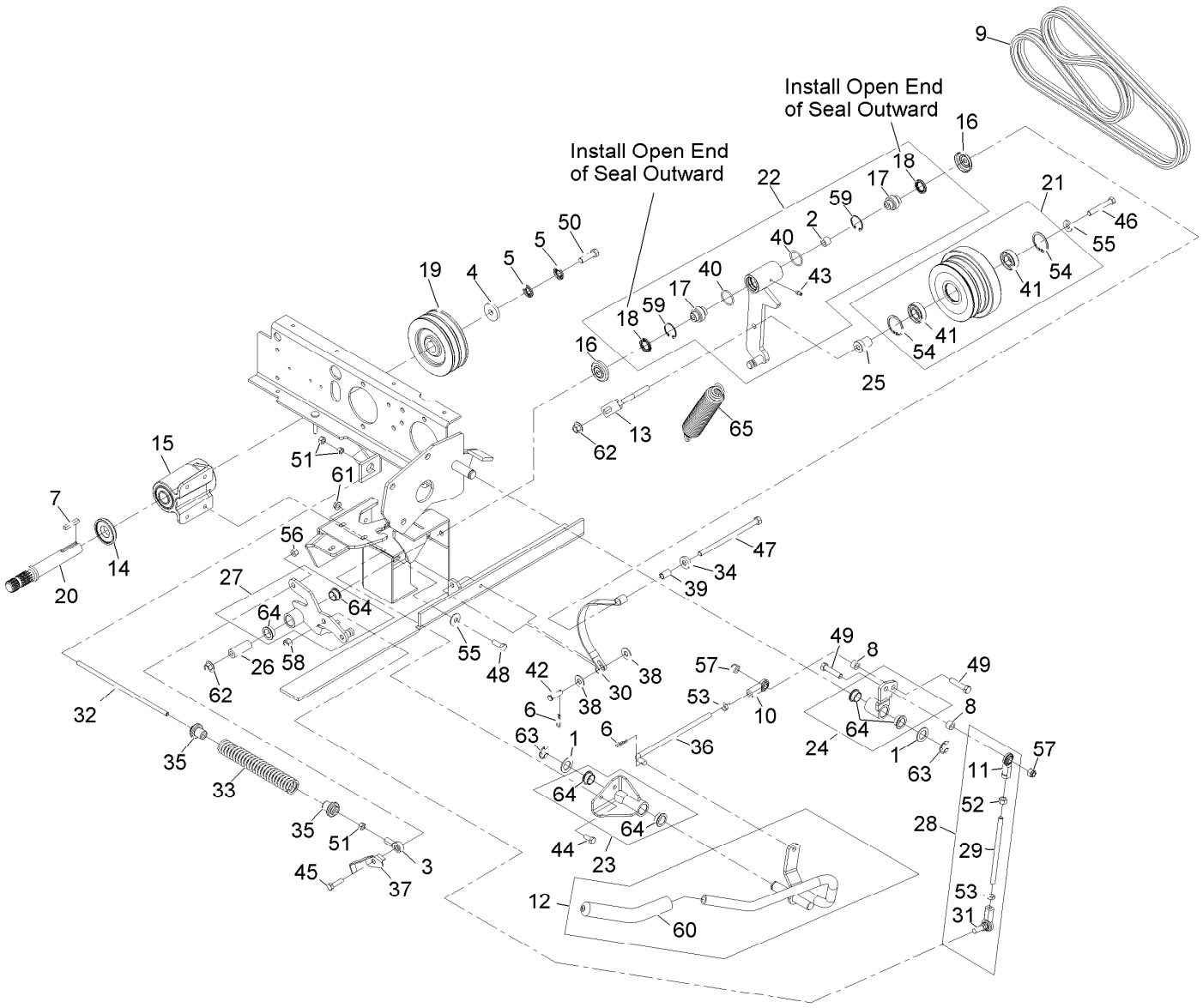
● Obtain parts from www.kohlerplus.com
■ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.
▲ Use Pro-Lock retaining type, Part no. 1-840023 (.5cc tube) on threads.




# Blower Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 1-543610 | 1 | Washer |
| 2 | 1-603610 | 2 | Washer-Spring Disc 7/16 |
| 3 | 18-9810 | 2 | Washer-Thrust |
| 4 | 67-7490 | 1 | Key-Machine 1/4 X 1/4 X 1 1/2 |
| 5 | 109-0183 | 1 | Asm, Blower Housing W/Brgs |
| 6 | 103-3370-03 | 1 | Wld, Blower Cover Assembly |
| 7 | 103-3540 | 2 | Bearing-Ball |
| 8 | 103-3894 | 1 | Spacer, Blower |
| 9 | 103-4921 | 1 | Spacer, Bearing |
| 10 | 103-5194 | 1 | Wld, Impeller |
| 11 | 103-6733 | 1 | Sheave, Blower |
| 12 | 103-6999 | 1 | Spacer, Mount |
| 13 | 103-9474 | 1 | Asm, Discharge Chute W/Decal |
| 14 | 103-9167-03 | 1 | Wld, Guide |
| 15 | 321-6 | 2 | Screw-HH 1/4-20 X 1 |
| 16 | 322-3 | 4 | Screw-HH 5/16-18 X 3/4 |
| 17 | 325-17 | 1 | Screw-HH 1/2-13 X 4 |
| 18 | 325-42 | 1 | Screw-HH 1/2-13 X 8 |
| 19 | 3212-6 | 1 | Screw-HH 7/16-20 X 1 1/2● |
| 20 | 3256-22 | 4 | Washer-1/4 Sae |
| 21 | 3296-23 | 1 | Nut-Nyloc 1/2-13 |
| 22 | 3296-42 | 2 | Nut-Nyloc 1/4-20 |
| 23 | 32120-8 | 2 | Ring-Retaining |
| 24 | 32128-20 | 10 | Nut-Whizlock 5/16-18 |
| 25 | 32128-49 | 1 | Nut-Whizlock 1/2-13 |
| 26 | 109-7318 | 2 | Decal, Danger |
| 27 | 109-0184 | 1 | Asm, Blower Complete |

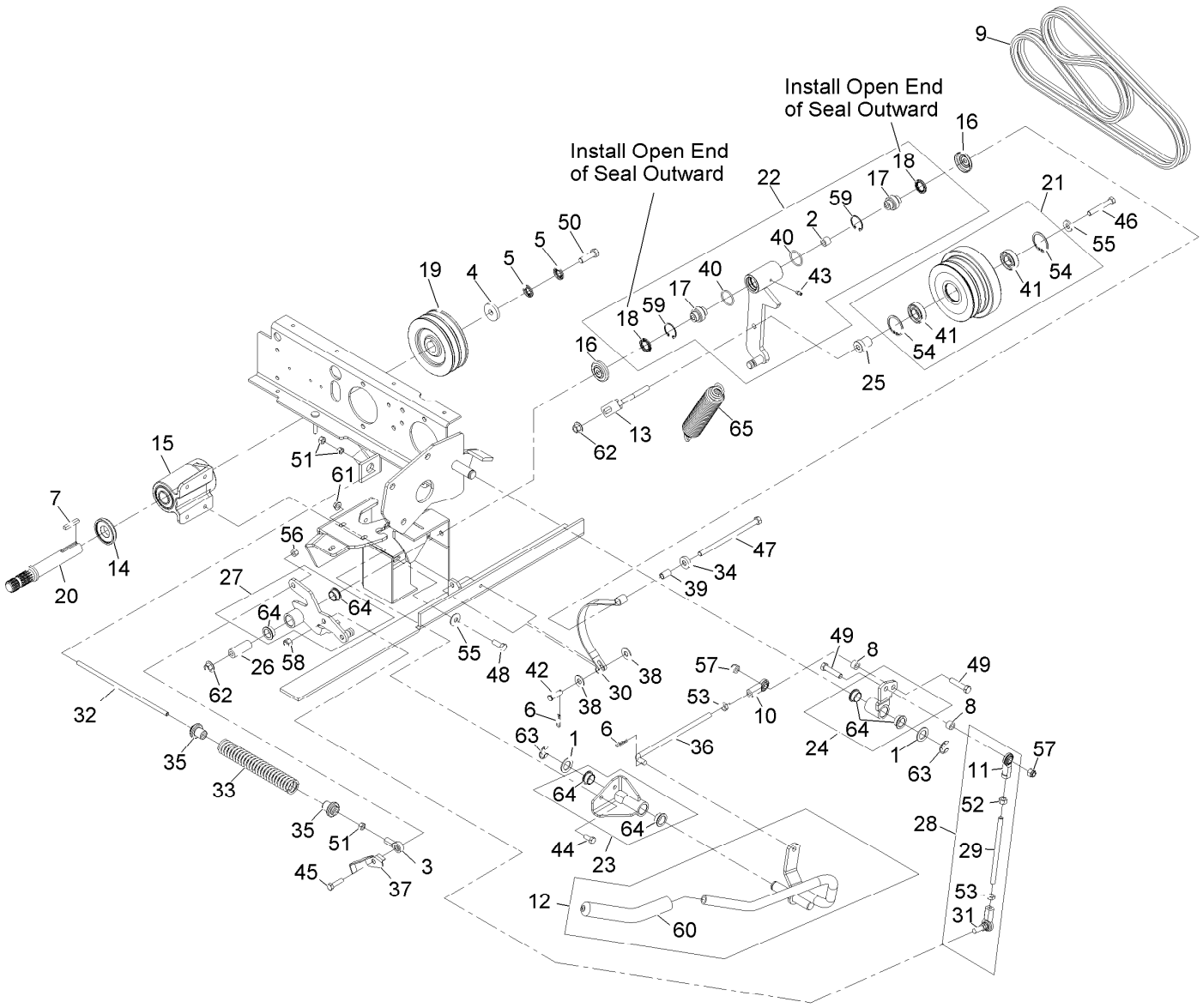
● Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.




# Jackshaft Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 1-303007 | 2 | Washer |
| 2 | 1-413088 | 1 | Spacer |
| 3 | 1-543017 | 1 | Balljoint |
| 4 | 1-543610 | 1 | Washer |
| 5 | 1-603610 | 2 | Washer-Spring Disc 7/16 |
| 6 | 1-806003 | 2 | Hairpin-Cotter |
| 7 | 67-7490 | 1 | Key-Machine 1/4 X 1/4 X 1 1/2 |
| 8 | 92-9025 | 2 | Spacer |
| 9 | 103-6737 | 1 | Belt, Matched Pair |
| 10 | 103-0608 | 1 | Balljoint |
| 11 | 103-1167 | 1 | Joint-Ball End, .38X.38Fe LH |
| 12 | 103-9486 | 1 | Asm, PTO Handle W/Grip |
| 13 | 109-5491 | 1 | Belt, Guide |
| 14 | 103-2535 | 1 | Spacer-Guard Bottom |
| 15 | 103-2544 | 1 | Jackshaft ASM |
| 16 | 103-2916 | 2 | Guard-Top |
| 17 | 103-3504 | 2 | Bearing-Spherical |
| 18 | 103-3506 | 2 | Seal-Single Lip |
| 19 | 103-6732 | 1 | Sheave |
| 20 | 103-6735 | 1 | Jackshaft |
| 21 | 103-9439 | 1 | Asm, Idler Sheave |
| 22 | 103-8253 | 1 | Asm, Idler Pivot |
| 23 | 103-9295 | 1 | Asm, Pivot W/Bushing |
| 24 | 103-9297 | 1 | Asm, Arm W/Bushing |
| 25 | 103-7350 | 1 | Spacer, Idler |
| 26 | 103-7382 | 1 | Bushing |
| 27 | 103-9296 | 1 | Asm, Arm W/Bushing |
| 28 | 103-7392 | 1 | Asm, Link Clutching |
| 29 | 103-7393 | 1 | Linkage, Rod |
| 30 | 103-7697 | 1 | Band, Brake |
| 31 | 103-7994 | 1 | Balljoint |
| 32 | 103-7996 | 1 | Linkage, PTO Brake Rod |
| 33 | 103-7997 | 1 | Spring, Brake |
| 34 | 5-0652 | 1 | Spacer |
| 35 | 103-8254 | 2 | Bushing, Spring |
| 36 | 103-8277 | 1 | Link, Handle |

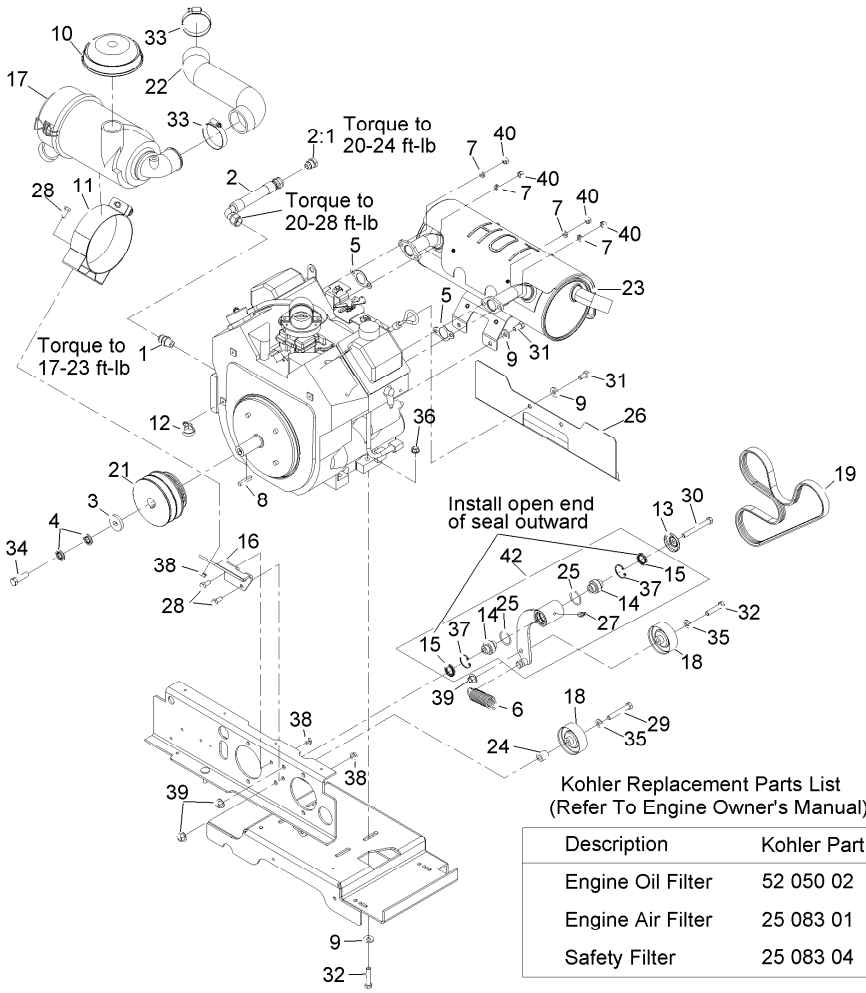
● Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.




# Jackshaft Assembly (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 37 | 103-8716-03 | 1 | Flag, Switch |
| 38 | 3256-4 | 2 | Washer-3/8 Std |
| 39 | 103-9816 | 1 | Spacer |
| 40 | 106-7159 | 2 | O-Ring |
| 41 | 251-347 | 2 | Bearing-Ball Deep Groove |
| 42 | 283-2 | 1 | Pin-Clevis 3/8 X 1 1/6 |
| 43 | 302-19 | 1 | Zerk-1/4-28 Str |
| 44 | 322-3 | 2 | Screw-HH 5/16-18 X 3/4 |
| 45 | 322-6 | 1 | Screw-HH 5/16-18 X 1 1/4 |
| 46 | 323-12 | 1 | Screw-HH 3/8-16 X 2 1/2 |
| 47 | 323-36 | 1 | Screw-HH 3/8-16 X 7 |
| 48 | 323-6 | 4 | Screw-HH 3/8-16 X 1 |
| 49 | 323-9 | 2 | Screw-HH 3/8-16 X 1 3/4 |
| 50 | 3212-6 | 1 | Screw-HH 7/16-20 X 1 1/2 ● |
| 51 | 3219-2 | 3 | Nut-Hex 5/16-24 |
| 52 | 3219-20 | 1 | Nut-Hex 3/8-24 LH |
| 53 | 3219-3 | 2 | Nut-Hex 3/8-24 |
| 54 | 32151-13 | 2 | Ring-Retaining |
| 55 | 98-5975 | 5 | Washer-Spring Disc 3/8 |
| 56 | 3296-29 | 1 | Nut-Nyloc 5/16-18 |
| 57 | 3296-39 | 2 | Nut-Nyloc 3/8-16 |
| 58 | 3296-6 | 1 | Nut-Nyloc 3/8-24 |
| 59 | 32120-10 | 2 | Ring-Retaining |
| 60 | 103-8153 | 1 | Grip, Control Lever |
| 61 | 32128-20 | 2 | Nut-Whizlock 5/16-18 |
| 62 | 32128-19 | 2 | Nut-Hex 3/8-16 Side Lock |
| 63 | 32151-48 | 2 | E-Ring |
| 64 | 108519 | 6 | Bushing-Bronze |
| 65 | 109-0148 | 1 | Spring-Extension |

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




Kohler Replacement Parts List
(Refer To Engine Owner's Manual)

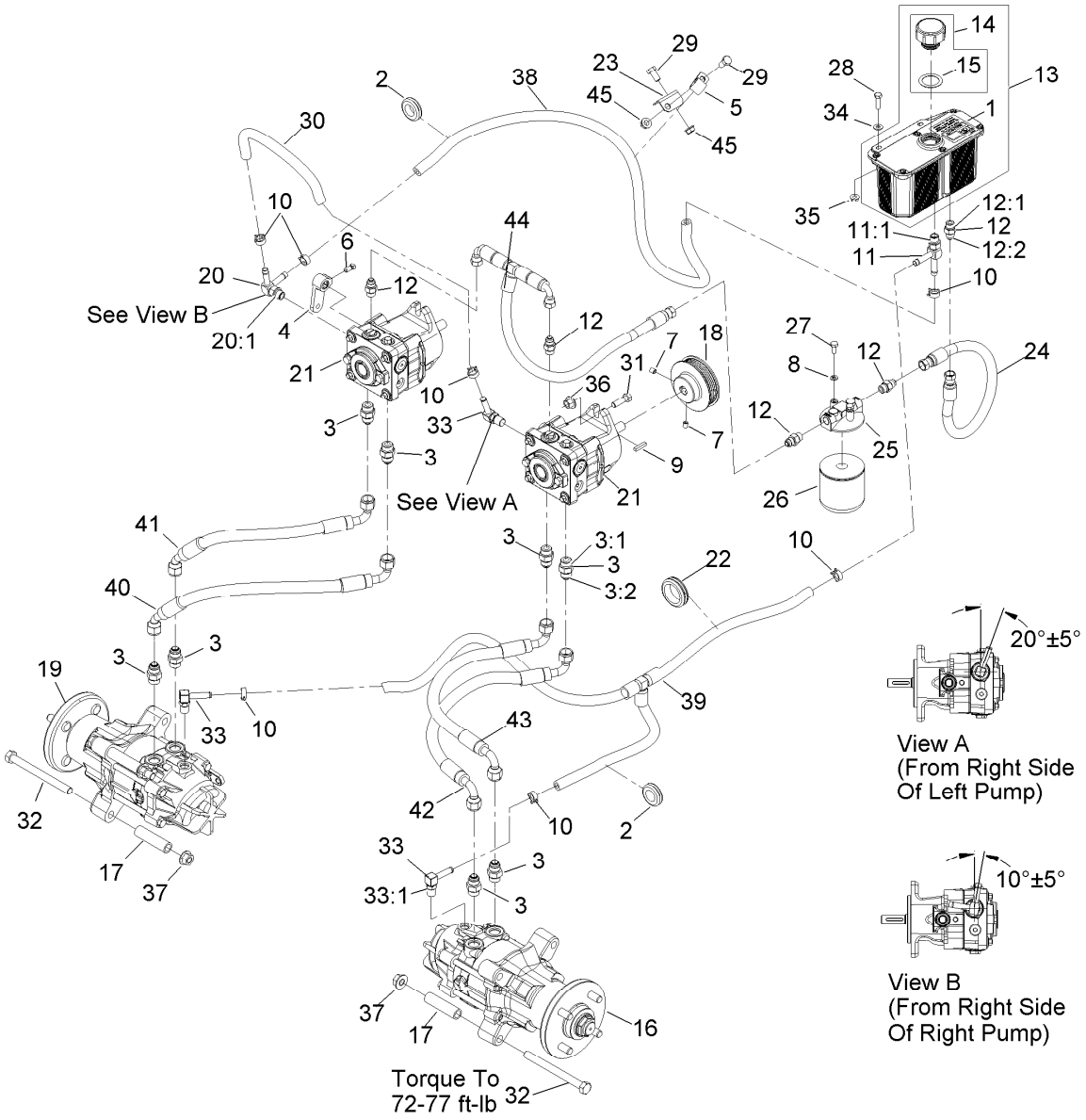
| Description | Kohler Part |
|---|---|
| Engine Oil Filter | 52 050 02 |
| Engine Air Filter | 25 083 01 |
| Safety Filter | 25 083 04 |

# Engine Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 116-1455 | 1 | Fitting-Straight ● |
| 2 | 116-4594 | 1 | Hose, Oil Drain W/Plug |
| 2:1 | 109-1012 | 1 | Plug |
| 3 | 1-543610 | 1 | Washer |
| 4 | 1-603610 | 2 | Washer-Spring Disc 7/16 |
| 5 | 1-653291 | 2 | Gasket-Exhaust |
| 6 | 1-653331 | 1 | Spring |
| 7 | 1-805005 | 4 | Washer-Lock 5/16 Heavy |
| 8 | 67-7490 | 1 | Key-Machine 1/4 X 1/4 X 1 1/2 |
| 9 | 98-5975 | 8 | Washer-Spring Disc 3/8 |
| 10 | 100-2436 | 1 | Asm-Hood Air Intake W/Clamp |
| 11 | 103-1058 | 1 | Bracket-Filter, Air |
| 12 | 109-7896 | 1 | Tie-Cable |
| 13 | 103-2916 | 1 | Guard-Top |
| 14 | 103-3504 | 2 | Bearing-Spherical |
| 15 | 103-3506 | 2 | Seal-Single Lip |
| 16 | 103-3695-03 | 1 | Bracket, Air Filter |
| 17 | 103-8569 | 1 | Air Cleaner, Canister |
| 18 | 109-3492 | 2 | Pulley, Idler Flat |
| 19 | 103-4244 | 1 | Belt, Poly-V K |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 21 | 103-6731 | 1 | Sheave, Engine |
| 22 | 103-6961 | 1 | Hose, Air Intake |
| 23 | 103-7444 | 1 | Muffler |
| 24 | 106-5574 | 1 | Spacer-Mounting, Steering |
| 25 | 106-7159 | 2 | O-Ring |
| 26 | 109-0181-03 | 1 | Shield, Exhaust |
| 27 | 302-11 | 1 | Zerk-45° 1/4-28 |
| 28 | 322-3 | 4 | Screw-HH 5/16-18 X 3/4 |
| 29 | 323-12 | 1 | Screw-HH 3/8-16 X 2 1/2 |
| 30 | 323-20 | 1 | Screw-HH 3/8-16 X 3-1/4 |
| 31 | 323-4 | 4 | Screw-HH 3/8-16 X 3/4 |
| 32 | 323-9 | 5 | Screw-HH 3/8-16 X 1 3/4 |
| 33 | 2412-42 | 2 | Clamp-Hose |
| 34 | 3212-6 | 1 | Screw-HH 7/16-20 X 1 1/2 ■ |
| 35 | 3256-24 | 2 | Washer-3/8 Sae |
| 36 | 3290-357 | 4 | Nut-Whizlock 3/8-16 |
| 37 | 32120-10 | 2 | Ring-Retaining |
| 38 | 32128-20 | 4 | Nut-Whizlock 5/16-18 |
| 39 | 32128-43 | 3 | Nut-Whizlock 3/8-16 |
| 40 | 33014-00 | 4 | Nut-Hex M8-1.25 |
| 42 | 103-7349 | 1 | Asm, Short Idler |

● Use a Teflon Pipe Sealant or equivalent on threads.
■ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.

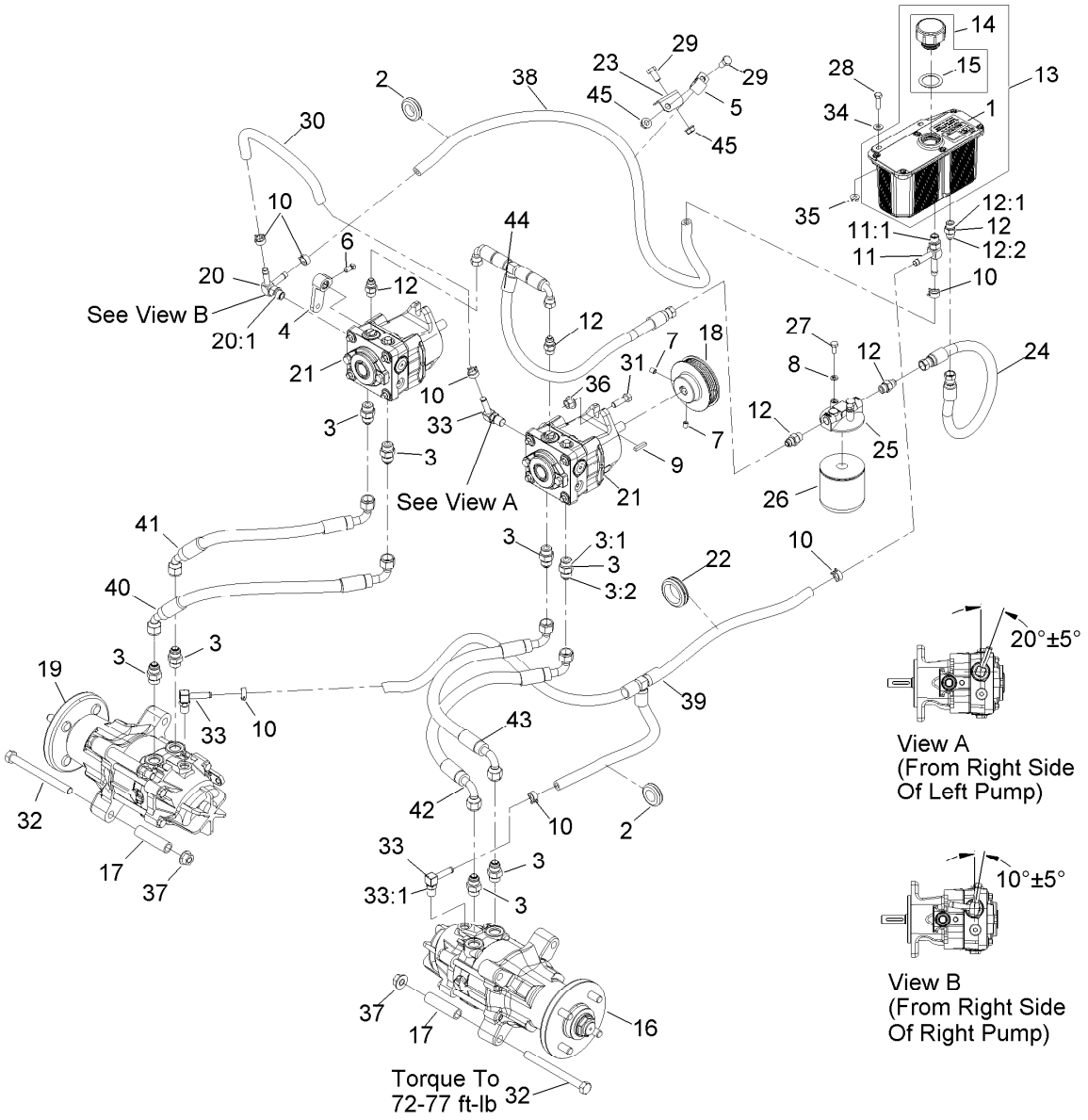



# Hydraulic Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 116-0404 | 1 | Decal-Hydraulic Tank |
| 2 | 1-543286 | 2 | Grommet |
| 3 | 1-603990 | 8 | Adapter-Straight |
| 3:1 | 1-603920 | 1 | O-Ring-Sae #8 |
| 3:2 | 1-603992 | 1 | O-Ring-37 Flare #8 |
| 4 | 1-632208 | 2 | Arm-Control, Pump |
| 5 | 1-633396 | 1 | Clip-Loom 5/8 |
| 6 | 1-803022 | 2 | Setscrew-5/16-18 X 5/8▲ |
| 7 | 1-803310 | 4 | Setscrew-5/16-18 X 3/8▲ |
| 8 | 1-805004 | 2 | Washer-Lock 1/4 Heavy |
| 9 | 1-807272 | 2 | Key-5Mm X 5Mm X 25Mm |
| 10 | 103-1988 | 7 | Clamp-Hose 11/16 |
| 11 | 103-1828 | 1 | Adapter-Running Tee |
| 11:1 | 237-42 | 1 | O-Ring |
| 12 | 103-2156 | 5 | Adapter-Straight |
| 12:1 | 237-42 | 1 | O-Ring |
| 12:2 | 103-1020 | 1 | O-Ring-37 Flare #6 |
| 13 | 103-1947 | 1 | HYD Reservoir ASM |
| 14 | 103-7615 | 1 | Asm, Cap W/Gasket |
| 15 | 103-1949 | 1 | Gasket-Cap |
| 16 | 103-3406 | 1 | Motor, Wheel (LH) |
| 16:1 | 103-9762 | 1 | Kit, Seal● |
| 16:2 | 103-9763 | 1 | Handle, Actuating● |
| 16:3 | 103-9764 | 1 | Clip, Retaining● |
| 16:4 | 103-9765 | 1 | Nut, Hex Toplock 1-20Unef-2B● |
| 16:5 | 103-4242 | 1 | Asm, Wheel Hub W/Studs● |
| 16:6 | 103-7447 | 4 | Stud, Wheel 1/2-20 X 1/2● |
| 17 | 109-7041 | 8 | Spacer |
| 18 | 103-4246 | 2 | Sheave |
| 19 | 103-4612 | 1 | Motor, Wheel (RH) |
| 19:1 | 103-9762 | 1 | Kit, Seal● |
| 19:2 | 103-9763 | 1 | Handle, Actuating● |
| 19:3 | 103-9764 | 1 | Clip, Retaining● |
| 19:4 | 103-9765 | 1 | Nut, Hex Toplock 1-20Unef-2B● |
| 19:5 | 103-4242 | 1 | Asm, Wheel Hub W/Studs● |
| 19:6 | 103-7447 | 4 | Stud, Wheel 1/2-20 X 1/2● |

● Not illustrated
▲ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on threads.

■ Use only for operation below 32°F (0°C).




# Hydraulic Assembly (continued)

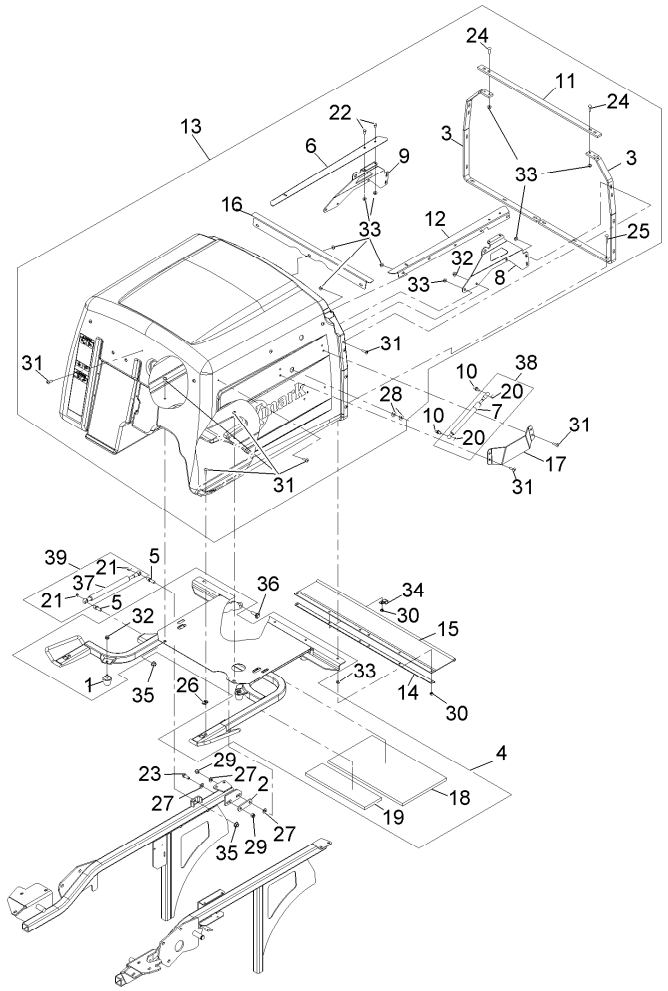
| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 20 | 103-5469 | 1 | Adapter-Tee Special |
| 20:1 | 237-42 | 1 | O-Ring |
| 21 | 116-2441 | 2 | Pump, Hydro |
| 21:1 | 103-7441 | 1 | Bearing-Shaft, Input ● |
| 21:2 | 103-7443 | 1 | Cylinder Block Kit ● |
| 21:3 | 94-6922 | 1 | Bearing-Thrust ● |
| 21:4 | 105-6184 | 1 | Seal Overhaul Kit ● |
| 22 | 103-7706 | 1 | Grommet |
| 23 | 103-8631 | 1 | Bracket, Clamp |
| 24 | 109-1258 | 1 | Hose, Hydraulic |
| 25 | 104-7836 | 1 | Filter-Head |
| 26 | 109-4180 | 1 | Filter,25 Micron Bi-Directional |
| 26 | 1-523541 | 1 | Element, Oil Filter(Winter) ■ |
| 27 | 321-3 | 2 | Screw-HH 1/4-20 X 5/8 |
| 28 | 321-6 | 2 | Screw-HH 1/4-20 X 1 |
| 29 | 323-4 | 2 | Screw-HH 3/8-16 X 3/4 |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 30 | 103-5452 | 1 | Hose, Hydraulic |
| 31 | 323-7 | 4 | Screw-HH 3/8-16 X 1 1/4 |
| 32 | 325-22 | 8 | Screw-HH 1/2-13 X 5 1/2 |
| 33 | 100-4887 | 3 | Fitting-Barbed, 90 DEG |
| 33:1 | 1-603921 | 1 | O-Ring-Sae #6 |
| 34 | 3256-22 | 2 | Washer-1/4 Sae |
| 35 | 32128-33 | 2 | Nut-Whizlock 1/4-20 |
| 36 | 32128-43 | 4 | Nut-Whizlock 3/8-16 |
| 37 | 32128-49 | 8 | Nut-Whizlock 1/2-13 |
| 38 | 103-5477 | 1 | Hose, Hydraulic |
| 39 | 103-8617 | 1 | Hose, Hydraulic |
| 40 | 109-1260 | 1 | Hose, Hydraulic |
| 41 | 109-1261 | 1 | Hose, Hydraulic |
| 42 | 109-1262 | 1 | Hose, Hydraulic |
| 43 | 109-1263 | 1 | Hose, Hydraulic |
| 44 | 109-1264 | 1 | Hose, Hydraulic |
| 45 | 3290-357 | 2 | Nut-Whizlock 3/8-16 |

● Not illustrated

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

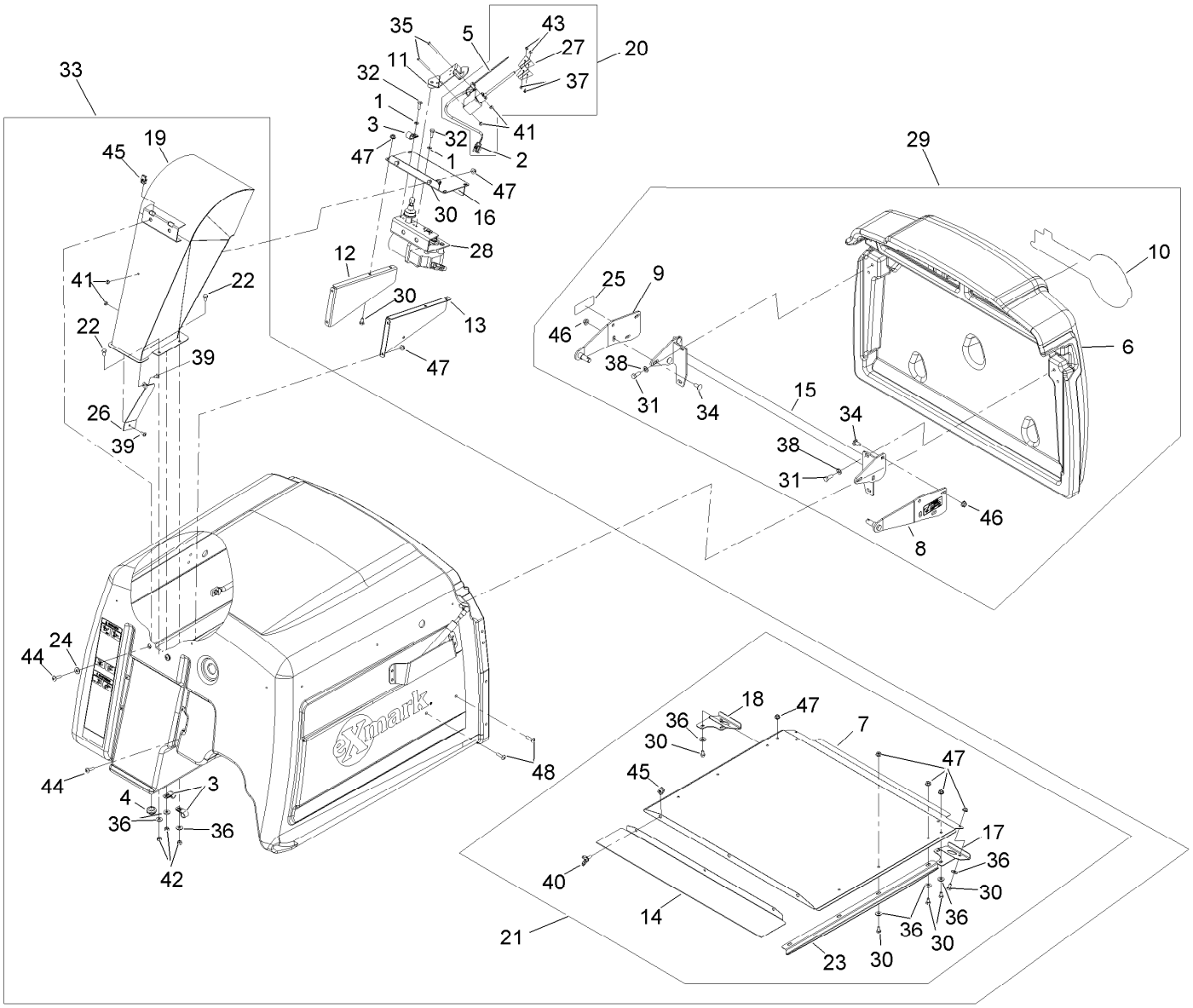
■ Use only for operation below 32°F (0°C).




# Hopper Assembly Pg1

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 1-543963 | 2 | Bumper, Rubber |
| 2 | 1-633068 | 2 | Arm-Lift, Deck |
| 3 | 103-5045-03 | 2 | Brace, Side |
| 4 | 109-4086 | 1 | Asm, Hopper Frame |
| 5 | 103-5426 | 2 | Stud-Ball 13Mm |
| 6 | 103-5736-03 | 1 | Channel, Screen (RH) |
| 7 | 103-5746 | 2 | Shock, Gas Tension |
| 8 | 103-5749-03 | 1 | Panel, Hinge (LH) |
| 9 | 103-5751-03 | 1 | Panel, Hinge (RH) |
| 10 | 103-5752 | 4 | Stud-Ball 10Mm |
| 11 | 103-5772-03 | 1 | Brace, Top |
| 12 | 103-5774-03 | 1 | Channel, Screen (LH) |
| 13 | 103-9457 | 1 | Asm, Hopper ● |
| 14 | 103-6022-03 | 1 | Channel, Hopper Frame |
| 15 | 103-6025 | 1 | Shield, Trailing |
| 16 | 103-7035-03 | 1 | Channel, Screen Front |
| 17 | 109-4019 | 2 | Guard, Damper |
| 18 | 103-7824 | 1 | Insulation, Foam Pad Rear |
| 19 | 103-7825 | 1 | Insulation, Foam Pad Front |
| 20 | 103-8324 | 4 | Clip-Retainer-10Mm |
| 21 | 103-8325 | 2 | Clip-Retainer-13Mm |
| 22 | 321-2 | 4 | Screw-HH 1/4-20 X 1/2 |
| 23 | 323-6 | 2 | Screw-HH 3/8-16 X 1 |
| 24 | 3229-2 | 4 | Bolt-Carriage 1/4-20 X 1 |
| 25 | 3229-4 | 6 | Bolt-Carriage 1/4-20 X 1 1/2 |
| 26 | 107069 | 4 | Nut-Retainer-Panel 1/4-20 |
| 27 | 3256-24 | 6 | Washer-3/8 Sae |
| 28 | 3256-3 | 4 | Washer-5/16 Std |
| 29 | 3296-39 | 6 | Nut-Nyloc 3/8-16 |
| 30 | 3296-42 | 29 | Nut-Nyloc 1/4-20 |
| 31 | 32105-32 | 30 | Screw-Truss HD 1/4-20 X 1 |
| 32 | 32128-20 | 4 | Nut-Whizlock 5/16-18 |
| 33 | 32128-33 | 39 | Nut-Whizlock 1/4-20 |
| 34 | 1-513762 | 1 | Clip-Loom 1/2 |
| 35 | 33005-00 | 2 | Nut-Hex M10-1.5 Flg |
| 36 | 614672 | 2 | Screw-Shoulder 3/8-16 X 1.295 |
| 37 | 103-5425 | 1 | Shock, Gas Compression |
| 38 | 109-0715 | 2 | Kit, Damper W/Clips |
| 39 | 109-0716 | 1 | Kit, Damper W/Clips |

● Reference Hopper Assembly Pg 2 for remainder of items included in assembly.

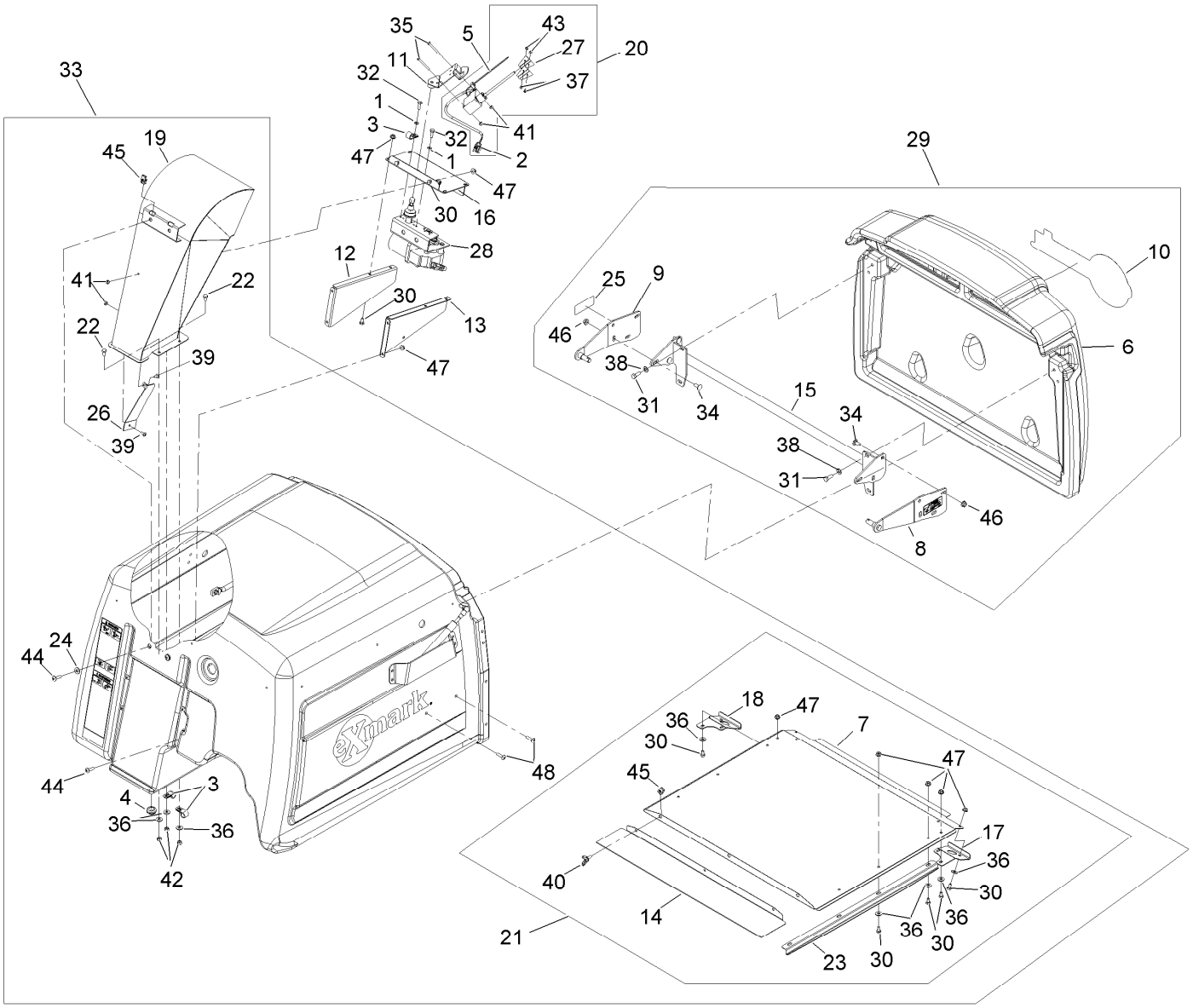



# Hopper Assembly Pg2

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 1-303435 | 3 | Washer-Spring Disc 1/4 |
| 2 | 109-3854 | 1 | Kit, Fill Sensor Wire |
| 3 | 1-513762 | 4 | Clip-Loom 1/2 |
| 4 | 1-543296 | 1 | Grommet |
| 5 | 1-303335 | 1 | Tie-Cable 7 15/16 (Large) |
| 6 | 109-3955 | 1 | Door, 9.5 Bushel Hopper |
| 7 | 103-5745-03 | 1 | Panel, Hopper Screen |
| 8 | 109-4253 | 1 | Asm, Door Pivot W/Decal (LH) |
| 9 | 109-4254 | 1 | Wld, Door Pivot W/Decal (RH) |
| 10 | 103-6024 | 1 | Decal, Exmark Logo |
| 11 | 109-3648 | 1 | Wld, Switch Mount |
| 12 | 103-6067-03 | 1 | Bracket, Motor (LH) |
| 13 | 103-6068-03 | 1 | Bracket, Motor (RH) |
| 14 | 103-7048-03 | 1 | Panel, Screen Extend |
| 15 | 109-4153-03 | 1 | Wld, Door Support |
| 16 | 103-7085-03 | 1 | Plate, Switch |
| 17 | 103-7098-03 | 1 | Handle, Screen (LH) |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 18 | 103-7099-03 | 1 | Handle, Screen (RH) |
| 19 | 109-3650-03 | 1 | Wld, Diffuser |
| 20 | 103-9466 | 1 | Asm, Fill Sensor |
| 21 | 109-0717 | 1 | Asm, Hopper Screen |
| 22 | 321-4 | 5 | Screw-HH 1/4-20 X 3/4 |
| 23 | 103-8203-03 | 2 | Guide, Screen |
| 24 | 1-613235 | 2 | Washer |
| 25 | 103-8444 | 2 | Decal, Pinch Point |
| 26 | 103-8680 | 1 | Deflector, Discharge Chute |
| 27 | 103-8789 | 2 | Flag, Fill Sensor |
| 28 | 109-3853 | 1 | Motor |
| 29 | 103-9456 | 1 | Asm, Door Hopper |
| 30 | 321-2 | 19 | Screw-HH 1/4-20 X 1/2 |
| 31 | 322-4 | 4 | Screw-HH 5/16-18 X 7/8 |
| 32 | 329-4 | 3 | Screw-HH 1/4-28 X 3/4 |
| 33 | 103-9457 | 1 | Asm, Hopper ● |
| 34 | 3230-23 | 6 | Bolt-Carriage 5/16-18 X 3/4 Short Neck |
| 35 | 3250-48 | 2 | Screw-PPH #10-24 X 1 3/4 |

● Reference Hopper Assembly Pg 1 for remainder of items included in assembly.

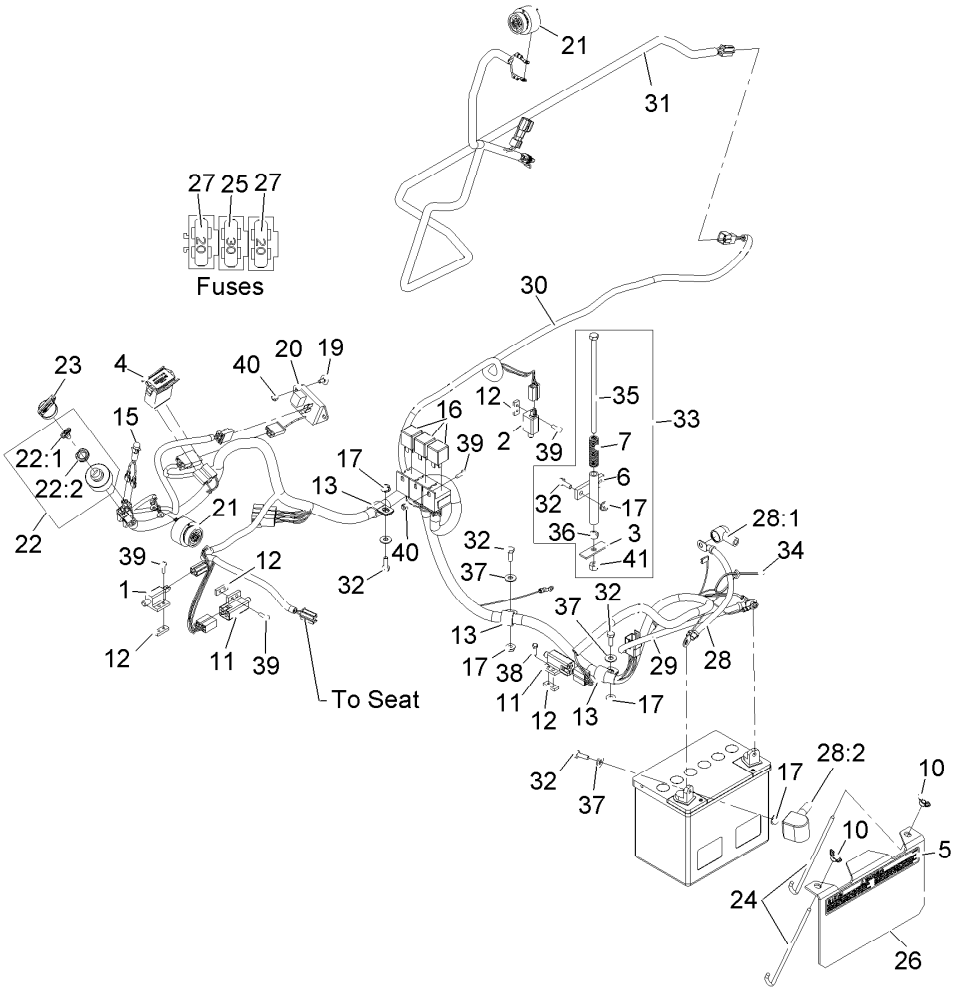



# Hopper Assembly Pg2 (continued)

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 36 | 3256-2 | 17 | Washer-1/4 Std |
| 37 | 9107622 | 2 | Screw-PPH #6-32 X 5/8 |
| 38 | 3256-23 | 4 | Washer-5/16 Sae |
| 39 | 32122-30 | 2 | Screw-Truss HD #10-24 X 1/2 |
| 40 | 109-1063 | 3 | Screw-Wing 1/4-20 X 3/4 |
| 41 | 3296-2 | 4 | Nut-Nyloc #10-24 |
| 42 | 3296-42 | 5 | Nut-Nyloc 1/4-20 |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 43 | 3296-9 | 2 | Nut-Nyloc #6-32 Thin |
| 44 | 32105-32 | 6 | Screw-Truss HD 1/4-20 X 1 |
| 45 | 107069 | 5 | Nut-Retainer-Panel 1/4-20 |
| 46 | 32128-20 | 8 | Nut-Whizlock 5/16-18 |
| 47 | 32128-33 | 27 | Nut-Whizlock 1/4-20 |
| 48 | 32122-42 | 4 | Screw-Truss HD 1/4-20 X 1/2 |

● Reference Hopper Assembly Pg 1 for remainder of items included in assembly.




# Electrical Assembly

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 1 | 1-513051 | 1 | Switch-N.O. |
| 2 | 1-513152 | 1 | Switch-N.C. |
| 3 | 1-513180 | 1 | Plate-Switch, Seat |
| 4 | 1-513374 | 1 | Meter-Engine Hours |
| 5 | 1-513747 | 1 | Decal-Battery |
| 6 | 1-522424-03 | 1 | Mount-Spring, Seat |
| 7 | 1-523415 | 1 | Spring |
| 10 | 1-543792 | 2 | Wingnut-Nyloc 1/4-20 |
| 11 | 1-633111 | 2 | Switch |
| 12 | 1-633181 | 4 | Plate-Tapped |
| 13 | 1-643312 | 3 | Clip-Loom |
| 15 | 1-643267 | 1 | Indicator-Red Led |
| 16 | 1-643275 | 3 | Relay-12Vdc 40 Amp |
| 17 | 32128-33 | 7 | Nut-Whizlock 1/4-20 |
| 19 | 1-807513 | 2 | Bolt-Carriage #10-24 X 1/2 |
| 20 | 100-6186 | 1 | Module-Delay, Seat |
| 21 | 103-0205 | 2 | Alarm-Dual Tone 12Vdc |
| 22 | 109-4736 | 1 | Asm, Switch W/Nut |
| 22:1 | 1-603511 | 1 | Key-Ignition |
| 22:2 | 103-0498 | 1 | Nut-Ignition |
| 23 | 103-2106 | 1 | Key-Exmark Logo |
| 24 | 1-633651 | 2 | Bolt-Holddown |

| Ref. | Part Number | Qty. | Description |
|---|---|---|---|
| 25 | 1-816003 | 1 | Fuse-Blade Type, 30 Amp |
| 26 | 103-9470 | 1 | Asm, Battery Hold Down W/Decal |
| 27 | 1-816001 | 2 | Fuse-Blade Type, 20 Amp |
| 28 | 116-4730 | 1 | Cable, Battery (+) |
| 28:1 | 1-543393 | 1 | Insulator-Solenoid |
| 28:2 | 109-2407 | 1 | Insulator-Battery |
| 29 | 103-8355 | 1 | Cable-Ground(-) |
| 30 | 116-4469 | 1 | Harness, Wiring ● |
| 31 | 103-8800 | 1 | Harness, Hopper Wire ● |
| 32 | 321-4 | 7 | Screw-HH 1/4-20 X 3/4 |
| 33 | 103-8528 | 1 | Asm, Hopper Switch Actuator |
| 34 | 1-303287 | 1 | Tie-Cable 5 1/2 (Small) |
| 35 | 322-50 | 1 | Screw-HH 5/16-18 X 7 1/2 |
| 36 | 3217-6 | 1 | Nut-Hex 5/16-18 |
| 37 | 3256-2 | 5 | Washer-1/4 Std |
| 38 | 3290-134 | 2 | Screw-HH Machine 10-24 X 5/8 |
| 39 | 3290-500 | 8 | Screw-PPH #10-24 X 5/8 |
| 40 | 3296-2 | 4 | Nut-Nyloc #10-24 |
| 41 | 3296-29 | 1 | Nut-Nyloc 5/16-18 |

● Use dielectric grease on all wiring harness connectors.

## Notes:

EXMARK® MAINTENANCE

## MAXIMIZE THE PERFORMANCE OF YOUR EXMARK.

### 4-CYCLE PREMIUM ENGINE OIL
Part No. 116-3373

Both SAE 30 and SAE 10W-30 in one bottle.

Contains increased levels of zinc and phosphorus for better lubricity.

No Viscosity Index Improvers that tend to shear down in high heat.

Synthetic formulation.

Gas & Diesel compatible.

Anti-corrosion additives.

API 'SL' and JASO rated with wet clutch compatibility for other machines.

### PREMIUM HYDRO OIL
Part No. 109-9828

Commercial quality for tough, high-heat conditions.

Designed specifically for zero-turn mower hydraulic systems.

Superior shear resistance under heavy loads.




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