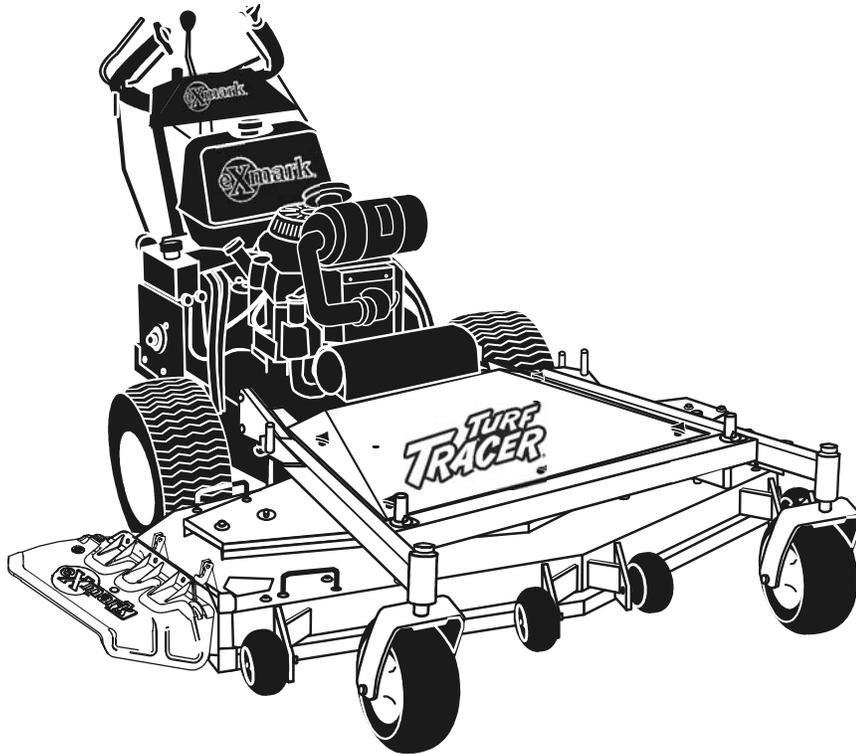




For Serial Nos.  
670,000 & Higher



PARTS MANUAL

# TURF TRACER®

**CONGRATULATIONS** on the purchase of your new Exmark mower. This product has been carefully designed and manufactured to give you a maximum amount of dependability and years of trouble-free operation. If additional information is needed, or should you require trained mechanic service, contact your authorized Exmark equipment dealer or distributor. If you need to order replacement parts from your dealer, always give the model number and serial number of your mower as well as the part number, description and quantity of the part needed.

The Serial No. plate located on top of the engine frame on the left hand side of the machine just inside the left wheel. For Ease of ordering and reference, we suggest that you record the information requested in the following identification table.

|   |
|---|
| <p>Place Model No. and Serial No. Label Here<br/>(Included in Literature Pack)<br/>or Fill in Below</p> |
| <p>Model No. _____</p>  |
| <p>Serial No. _____</p>   |

Engine Model No. and Spec. No. (Code) \_\_\_\_\_

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

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

# EXMARK PARTS PLUS® PROGRAM

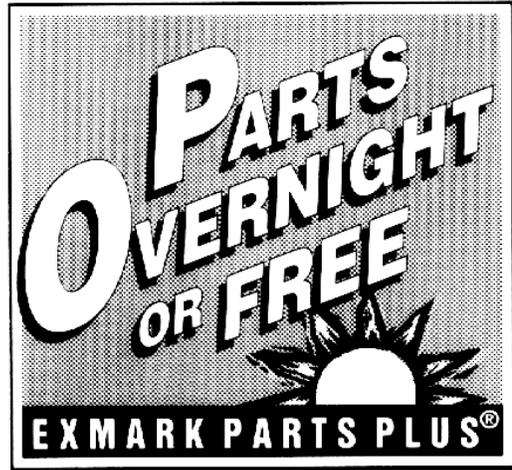
EFFECTIVE DATE: September 1, 1995

## Program

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!!

### *How the Program Works*

1. If dealer does not have part in stock for a "down" unit at the time of request by customer, the dealer contacts his distributor by 1:00 p.m., local time, and requests Exmark Parts Plus® shipment of six (6) line items or less.
2. Distributor ships part(s) to dealer or customer, as requested by dealer, same day, overnight UPS Distributor bills dealer for part and freight charges where applicable.
3. If distributor does not have the part(s) in stock to satisfy Exmark Parts Plus® order, he contacts Exmark by 3:00 p.m., central time, with an Exmark Parts Plus® order of six (6) line items or less.
4. If order is received by 3:00 p.m. central time, Exmark ships part(s) direct to dealer or customer, as requested by distributor, same day, overnight UPS Exmark bills the distributor for parts and shipping charges, where applicable.
5. The customer pays for the part and freight if it is shipped under the Exmark Parts Plus® and if it arrives in accordance to the program.
6. Who pays for the part and freight if it fails to arrive overnight in accordance to the program?
  - A. Under any circumstance the customer does not pay.
  - B. If the part does not arrive overnight due to:
    1. The dealer not submitting the Exmark Parts Plus® order to his Exmark distributor by 1:00 p.m., the dealer pays for the part and freight.
    2. The Distributor being unable to ship the part the same day or not submitting the Exmark Parts Plus® order to Exmark by 3:00 p.m., central time, the Distributor pays for the part and freight.
    3. Exmark being unable to ship the part and the Exmark parts order is received by 3:00 p.m., central time, Exmark pays for the part and freight.
    4. If the part does not arrive overnight due to the shipper (UPS), the shipper pays for the freight and Exmark pays for the part.



**The following restrictions apply** -- The Exmark Parts Plus® Program is available only through participating Exmark Dealers and applies only to orders submitted on this program Monday through Thursday. Parts Plus service is available only in the 48 contiguous United States. UPS has initiated a Saturday delivery program to many areas of the continental United States and can be requested for an overnight shipment on Friday to be delivered Saturday. The next day air charge, plus the Saturday delivery fee will be the responsibility of the purchaser. Exmark Mfg. will assume no responsibility for Saturday delivery shipments. To qualify, all Exmark Parts Plus® orders must be received by Exmark by 3:00 p.m., central time. Orders must be six (6) line items or less. Exclusions from the Exmark Parts Plus® Program are: Any wholegood or accessory in its entirety, engines and engine replacement parts, 5-speed Peerless transmissions and 5-speed transaxles, hydraulic or hydrostatic wheel motors, cutter decks and engine decks or any item exceeding United Parcel Service size and weight restrictions.

Due to UPS restrictions, aerosol spray paint is considered a hazardous material and cannot be shipped via UPS next day or Second Day Air.

Exmark Manufacturing stocks a limited supply of parts for transaxles, pumps and wheel motors. These parts can be ordered for Next Day Air shipment but will not be guaranteed per the Parts Plus Program.



**READ OPERATOR'S MANUAL BEFORE  
OPERATING OR SERVICING EXMARK EQUIPMENT.**

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| Electrical Diagram.....            | 11                 |
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## ECS UPPER HANDLES AND CONTROLS

| Item | Part No.    | Description                         | Qty. |
|------|-------------|-------------------------------------|------|
| 1    | 322-9       | Screw, 5/16-18 x 1 3/4 .....        | 2    |
| 2    | 1-806003    | Hairpin Cotter.....                 | 2    |
| 3+   | 103-1566-03 | Lever Weldmt OPC LH.....            | 1    |
| 4◆   | 1-803322    | Setscrew, 5/16-24 x 5/16.....       | 2    |
| 5    | 1-303365    | Bushing, Nylon.....                 | 2    |
| 6    | 103-0769-03 | Lever Axle Weldmt, OPC .....        | 1    |
| 7    | 1-303363    | Spring, OPC Extension .....         | 1    |
| 8+   | 103-1567-03 | Lever Weldmt, OPC RH.....           | 1    |
| 9    | 1-807513    | Bolt, #10-24 x 1/2 Carriage .....   | 2    |
| 10   | 1-603336    | Choke Control Push/Pull .....       | 1    |
| 11   | 109-3958    | Cable, Throttle .....               | 1    |
| 12   | 3296-2      | Nut, #10-24 Nylock.....             | 2    |
| 13   | 103-1537-03 | Handle Weldmt, Upper ECS.....       | 1    |
| 14   | 103-0815    | Grip, Handle Bar .....              | 2    |
| 15   | 1-413152    | Bearing .....                       | 4    |
| 16   | 103-2514    | Lever, Drive LH.....                | 1    |
| 17   | 103-0027    | Bushing, Drive Lever.....           | 2    |
| 18   | 321-14      | Screw, 1/4-20 x 2 3/4 .....         | 2    |
| 19   | 32128-33    | Nut, 1/4-20 Whizlock.....           | 12   |
| 20   | 103-0464    | Pin, 1/8 x 1/2 Spring.....          | 2    |
| 21   | 3256-22     | Washer 1/4 SAE Flat.....            | 10   |
| 22   | 1-303435    | Washer, 1/4 Disc Spring.....        | 6    |
| 23   | 103-1371    | Thumb Latch Asm RH(Shown).....      | 1    |
|      | 103-1372    | Thumb Latch Asm LH (Not Shown)..... | 1    |
| 24◆  | 103-0235    | Screw, 1/4-20 x 1-1/8 W/Nylon.....  | 2    |

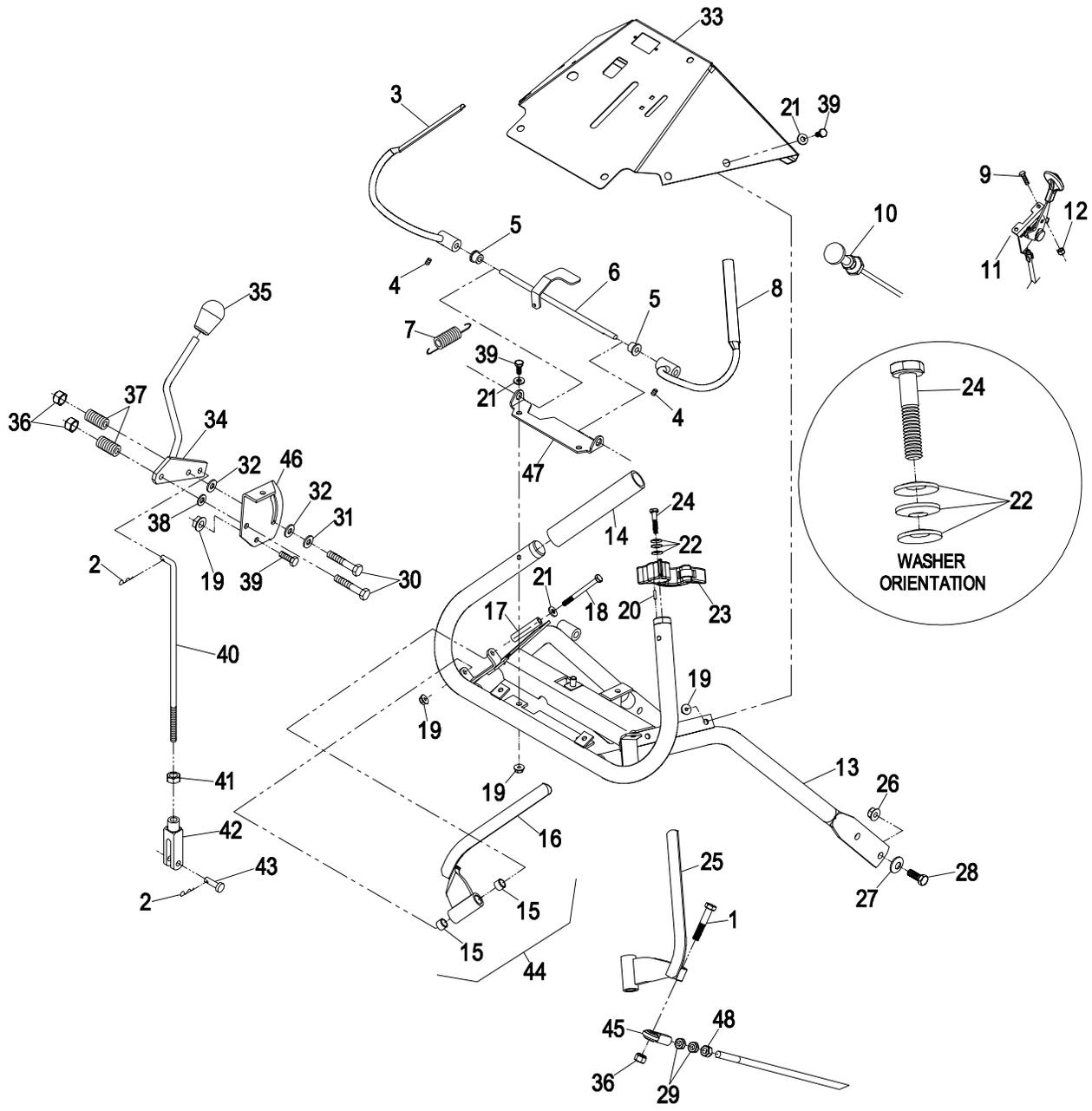
| Item | Part No.    | Description                         | Qty. |
|------|-------------|-------------------------------------|------|
| 25   | 103-2513    | Lever, Drive RH .....               | 1    |
| 26   | 3290-357    | Nut, 3/8-16 Whizlock.....           | 4    |
| 27   | 98-5975     | Washer, 3/8 Disc Spring.....        | 4    |
| 28   | 323-6       | Screw, 3/8-16 x 1 .....             | 4    |
| 29   | 3220-3      | Nut, Jam 3/8-24 .....               | 4    |
| 30   | 322-10      | Screw, 5/16-18 x 2.....             | 2    |
| 31   | 1-603716    | Washer, Friction Disc.....          | 1    |
| 32   | 1-323244    | Washer, Friction.....               | 2    |
| 33   | 109-4508    | Console 109-4506-03 W/ Decals ..... | 1    |
| 34   | 103-0773    | Speed Shift Weldmt .....            | 1    |
| 35   | 103-0423    | Knob .38-16 Nyloc .....             | 1    |
| 36   | 3296-29     | Nut, 5/16-18 Nyloc.....             | 4    |
| 37   | 1-323245    | Spring, Compression .....           | 2    |
| 38   | 3256-23     | Washer 5/16 SAE Flat .....          | 10   |
| 39   | 321-3       | Screw, 1/4-20 x 5/8.....            | 10   |
| 40   | 1-413225    | Rod, Speed Control .....            | 1    |
| 41   | 3220-2      | Nut, 5/16-24 Jam .....              | 1    |
| 42   | 1-303105    | Yoke .....                          | 1    |
| 43   | 1-808280    | Clevis Pin 5/16 x 1 .....           | 1    |
| 44   | 103-2513    | Asm, Drive Lever RH .....           | 1    |
|      | 103-2514    | Asm, Drive Lever LH.....            | 1    |
| 45   | 103-2463    | Joint,.31 Ball End.....             | 2    |
| 46   | 103-0503    | Bracket, Shifter Slide .....        | 1    |
| 47   | 103-0489-03 | Bracket, OPC Axle.....              | 1    |
| 48   | 3219-3      | Nut, Reg Hex 3/8-24 .....           | 2    |

Exmark black touch up spray paint – Gloss black.

◆ Use Pro-Lock nut type, (P/N. 1-840022, .5cc tube) on setscrew threads and thumb latch screw threads.

+ Use Pro-Lock retaining type, (P/N. 1-840023, .5cc tube) on inside of bore of OPC hub.

# ECS UPPER HANDLES AND CONTROLS



## ENGINE DECK GROUP

| Item | Part No.    | Description                           | Qty. |
|------|-------------|---------------------------------------|------|
| 1    | 109-2581    | Eng Deck 109-2579-01 W/ Decals .....  | 1    |
| 2    | 109-4490    | Asm, Hose Oil Drain W/Plug .....      | 1    |
| 3    | 109-1012    | Plug .....                            | 1    |
| 4    | 1-303335    | Tie, Plastic .....                    | 1    |
| 5    | 1-602997    | Hub, 4 Bolt .....                     | 2    |
|      | 1-633926    | Stud .....                            | 8    |
| 6    | 103-1715    | Tire And Wheel Assy.....              | 2    |
|      | 103-2237    | Tire Only 18 x 8.50.....              | 2    |
|      | 103-2238    | Wheel Only .....                      | 2    |
| 7    | 242-50      | Nut, Wheel .....                      | 8    |
| 8    | 1-807019    | Key, Woodruff 1" x 1/4" .....         | 2    |
| 9    | 1-806800    | Pin, Cotter 9/64 x 1 1/2 .....        | 2    |
| 10   | 32136-5     | Nut, 3/4-16-2B Slotted Hex .....      | 2    |
| 11   | 1-613089    | Anchor, Spring .....                  | 2    |
| 12   | 1-413510    | Clip, Loom 2.06 Dia.....              | 3    |
| 13   | 1-807259    | Key, 1/4 x 1/4 x 1 .....              | 1    |
| 14   | 103-2240    | Belt, Deck Drive(52").....            | 1    |
|      | 1-603306    | Belt, Deck Drive(60").....            | 1    |
| 15   | 103-0662    | Clutch W/Plastic Tie .....            | 1    |
| 16   | 1-633543-03 | Strap, Clutch .....                   | 1    |
| 17   | 1-323195-03 | Standoff, Clutch .....                | 1    |
| 18   | 1-303287    | Plastic Tie, Small .....              | 1    |
| 19   | 103-1167    | Joint, .38x.38FE LH Ball End.....     | 2    |
| 20●  | 1-653035    | Sheave, 4 1/4 O.D .....               | 1    |
| 21   | 1-413010    | Sheave, Pump .....                    | 2    |
| 22   | 1-807272    | Key, 5mm Sq x 25mm.....               | 2    |
| 23▲  | 1-803050    | Setscrew, 5/16-18 x 3/4.....          | 4    |
| 24   | 109-4077    | Pulley, Idler .....                   | 1    |
| 25   | 1-603496    | Bushing, Idler.....                   | 3    |
| 26◆  | 109-2578    | Kit, Idler Arm W/Bearings .....       | 1    |
| +    | 109-2575    | Kit, Idler Arm .....                  | 1    |
| 27   | 302-40      | Zerk, 90° 1/4-28 .....                | 1    |
| 28   | 1-603414    | Spring, Extension.....                | 1    |
| 29   | 103-3506    | Seal, Single Lip .....                | 1    |
| 30   | 302-19      | Zerk, Grease 1/4-20 .....             | 2    |
| 31   | 1-633102    | Bearing, Flanged.....                 | 2    |
| 32   | 1-613206    | Rod, Control Arm .....                | 2    |
| 33   | 1-323245    | Spring .....                          | 1    |
| 34   | 1-603676    | Swivel .....                          | 2    |
| 35   | 1-413151    | Knob, Tracking.....                   | 1    |
| 36   | 103-4673-01 | Support, Tank/Handle .....            | 1    |
| 37   | 103-1561-01 | Arm, Control LH .....                 | 1    |
| 38   | 103-1562-01 | Arm, Control RH(Not Shown) .....      | 1    |
| 39   | 109-2584    | Belt, Hyd Trans Drive ("A" Belt)..... | 1    |
| 40   | 1-603693    | Spring, Extension.....                | 2    |
| 41   | 103-2234-01 | Crank Weldment .....                  | 1    |
| 42   | 1-603737    | Bolt, Neutral Return.....             | 2    |
| 43   | 103-0265    | Spring, Neutral Return .....          | 2    |
| 44   | 1-603735    | Bushing, Flanged.....                 | 2    |

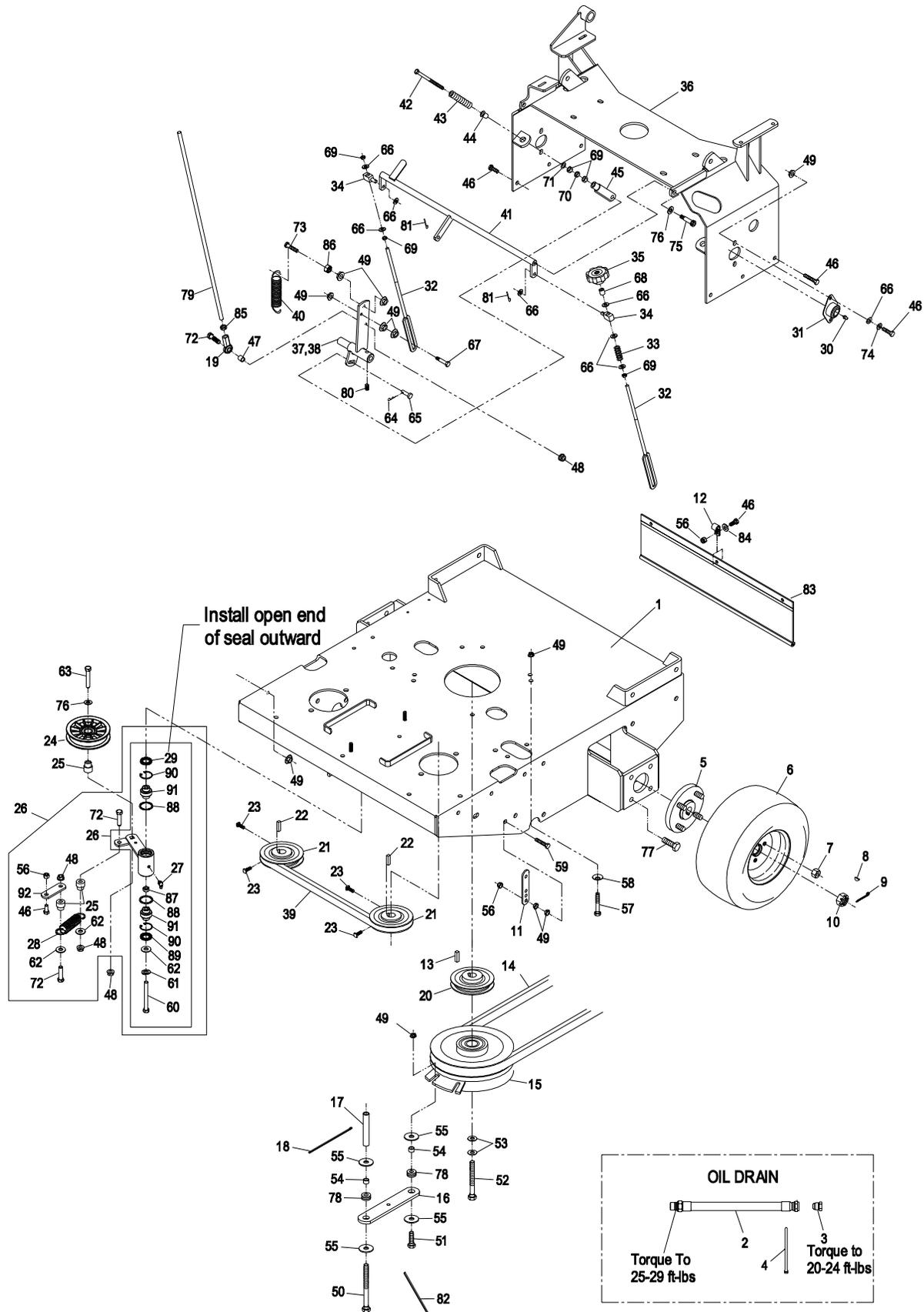
| Item | Part No. | Description                          | Qty. |
|------|----------|--------------------------------------|------|
| 45   | 1-303105 | Yoke, Adjustable.....                | 2    |
| 46   | 322-3    | Screw, 5/16-18 x 3/4 .....           | 14   |
| 47   | 103-2421 | Tube, Pump Link Spacer .....         | 2    |
| 48   | 3290-357 | Nut, 3/8-16 Whizlock .....           | 6    |
| 49   | 32128-20 | Nut, 5/16-18 Whizlock.....           | 28   |
| 50   | 322-38   | Screw, 5/16-18 x 4 1/2.....          | 1    |
| 51   | 322-6    | Screw, 5/16-18 x 1 1/4.....          | 1    |
| 52   | 3212-12  | Screw, 7/16-20 x 3 .....             | 1    |
| 53   | 1-603610 | Washer, Spring Disc .....            | 2    |
| 54   | 1-633545 | Spacer, Clutch Anchor.....           | 2    |
| 55   | 1-613235 | Washer .....                         | 4    |
| 56   | 3296-29  | Nut, Nyloc 5/16-18.....              | 6    |
| 57   | 322-7    | Screw, 5/16-18 x 1 1/2.....          | 4    |
| 58   | 1-303334 | Washer, 5/16 Disc Spring .....       | 4    |
| 59   | 1-800016 | Bolt, Tap 5/16-18 x 1 1/4.....       | 2    |
| 60▲  | 1-800805 | Screw, 3/8-16 x 3 1/2 Gr8 .....      | 1    |
| 61   | 3253-5   | Washer, Lock 3/8 Heavy.....          | 1    |
| 62   | 3256-4   | Washer .....                         | 3    |
| 63   | 323-9    | Screw, HH 3/8-16 x 1 3/4.....        | 1    |
| 64   | 1-806003 | Hairpin, Cotter .....                | 2    |
| 65   | 1-808280 | Clevis Pin.....                      | 2    |
| 66   | 3256-23  | Washer, 5/16 .....                   | 11   |
| 67   | 1-403180 | Screw, 5/16-18 x 1-3/8 Special ..... | 2    |
| 68   | 1-603903 | Spacer .....                         | 1    |
| 69   | 3219-2   | Nut 5/16-24 Regular.....             | 7    |
| 70   | 3220-2   | Nut, 5/16-24 Jam .....               | 2    |
| 71   | 3256-2   | Washer, 1/4 .....                    | 2    |
| 72   | 323-8    | Screw, 3/8-16 x 1 1/2.....           | 4    |
| 73   | 322-6    | Screw , 5/16-18 x 1-1/4.....         | 2    |
| 74   | 1-805005 | Washer, Lock 5/16 Heavy .....        | 4    |
| 75▲  | 1-809056 | Screw,3/8 x 3/8 Sckt Hd Shld.....    | 2    |
| 76   | 3256-24  | Washer, 3/8 SAE Flat .....           | 3    |
| 77   | 3234-11  | Screw, HH FLG 3/8-16 x 1 .....       | 8    |
| 78   | 1-633630 | Grommet .....                        | 2    |
| 79   | 103-1576 | Rod, Drive Lever.....                | 2    |
| 80▲  | 1-803022 | Setscrew, 5/16-18 x 5/8 .....        | 2    |
| 81   | 3272-5   | Cotter Pin.....                      | 2    |
| 82   | 1-303335 | Plastic Tie (Large).....             | 1    |
| 83   | 103-2224 | Shield, Drag.....                    | 1    |
| 84   | 3256-3   | Washer, Flat 5/16 Std .....          | 3    |
| 85   | 3220-16  | Nut, Jam 3/8-24 LH.....              | 2    |
| 86   | 3218-2   | Nut, Jam 5/16-18 .....               | 2    |
| 87   | 103-5677 | Spacer .....                         | 1    |
| 88   | 106-7159 | O-ring .....                         | 2    |
| 89   | 103-3505 | Seal, Double, Lip .....              | 1    |
| 90   | 32120-10 | Ring, Retaining .....                | 2    |
| 91   | 103-3504 | Bearing, Spherical .....             | 2    |
| 92   | 1-633068 | Plate .....                          | 1    |

Exmark black touch up spray paint – Gloss black.

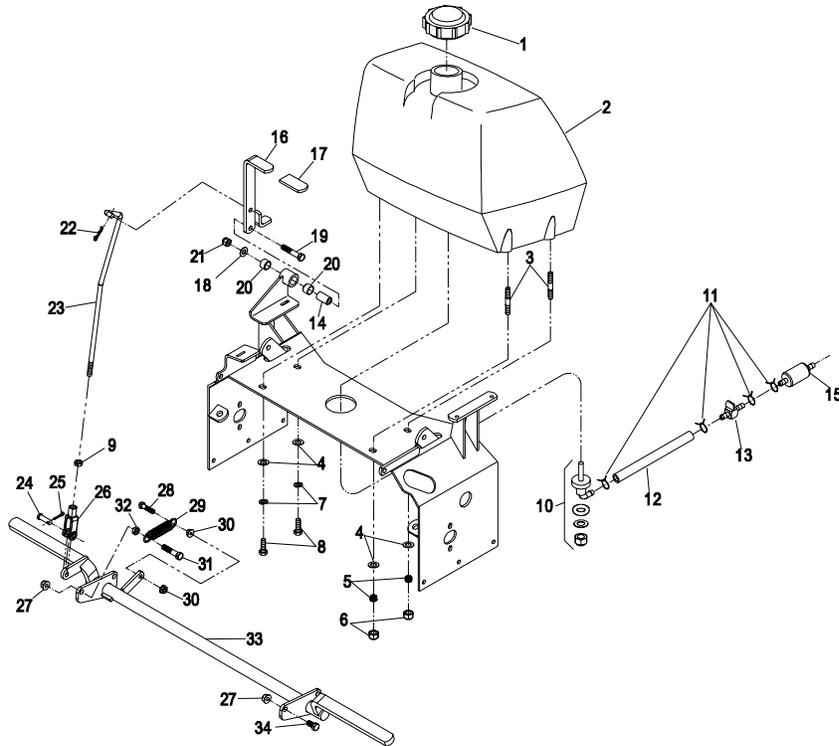
Exmark red touch up paint (spray paint - P/N 1-850337 - .6 oz liquid bottle - P/N 103-9140).

- Install sheave with long end of hub up.
- ▲ Use Pro-Lock, nut type (P/N 1-840022, .5cc tube) on setscrew threads, shoulder bolt threads, clutch retaining bolt, and pump drive idler bolt.
- ◆ 109-2578 kit contains items shown in small box and services units with S/N 614,461 and higher.
- ⊕ 109-2575 kit contains items shown in large box and services units with S/N 600,000-614,460.

# ENGINE DECK GROUP



## ENGINE DECK GROUP (cont.)



| Item | Part No.        | Description   | Qty. |
|------|-----------------|---|------|
| 1    | 109-0346        | Cap, Gas.....   | 1    |
| 2    | 103-2893        | Tank, Fuel W/Fitting .....                              | 1    |
| 3◆   | 1-633023        | Stud, Fuel Tank.....                                    | 2    |
| 4    | 3256-23         | Washer, Flat 5/16 Std .....                             | 4    |
| 5    | 1-633349        | Spring, Fuel Tank.....                                  | 2    |
| 6    | 3296-47         | Nut, Nyloc 5/16-18 .....                                | 2    |
| 7    | 1-805005        | Washer, 5/16 Lock .....                                 | 2    |
| 8    | 322-3           | Screw, 5/16-18 x 3/4 .....                              | 2    |
| 9    | 3220-3          | Nut, 3/8-24 Jam .....                                   | 1    |
| 10+  | 103-2605        | Fitting, Fuel Bulkhd W/ Screen .....                    | 1    |
| 11   | 1-303077        | Clamp, Fuel Line.....                                   | 4    |
| 12   | 109-0303        | Hose, Fuel 7.0 (KAW) .....                              | 1    |
| 13   | 1-603770        | Valve, Fuel.....  | 1    |
| 14   | 1-413344        | Bushing, Pivot.....                                     | 1    |
| 15   | <b>Kawasaki</b> | Part No. 49019-7001 Fuel Filter .....                   | 1    |
| 16   | 109-4544        | Lever, Park Brake (109-4543-03)<br>W/Decal & Grip ..... | 1    |
| 17   | 1-303020        | Grip, Lever .....                                       | 1    |

| Item | Part No.    | Description                   | Qty. |
|------|-------------|-------------------------------|------|
| 18   | 3256-24     | Washer, 3/8 SAE Flat .....    | 1    |
| 19   | 323-10      | Screw, 3/8-16 x 2.....        | 1    |
| 20   | 1-413347    | Sleeve, Bushing.....          | 2    |
| 21   | 3296-39     | Nut, 3/8-16 Nyloc .....       | 1    |
| 22   | 1-806003    | Hairpin, Cotter .....         | 1    |
| 23   | 109-4078    | Linkage, Park Brake.....      | 1    |
| 24   | 1-808285    | Pin, Clevis 3/8 x 1 1/8 ..... | 1    |
| 25   | 3272-10     | Pin, Cotter 1/8 x 3/4 .....   | 1    |
| 26   | 1-633131    | Yoke, Brake Linkage.....      | 1    |
| 27   | 3290-357    | Nut, 3/8-16 Whizlock.....     | 4    |
| 28   | 322-6       | Screw, 5/16-18 x 1 1/4 .....  | 1    |
| 29   | 1-323161    | Spring.....                   | 1    |
| 30   | 32128-20    | Nut, 5/16-18 Whizlock.....    | 2    |
| 31   | 323-9       | Screw, 3/8-16 x 1 3/4.....    | 1    |
| 32   | 3218-3      | Nut, Jam 3/8-16.....          | 1    |
| 33   | 103-2205-03 | Brake Weldmt.....             | 1    |
| 34   | 323-4       | Screw, 3/8-16 x 3/4.....      | 3    |

Exmark black touch up spray paint – Gloss black.

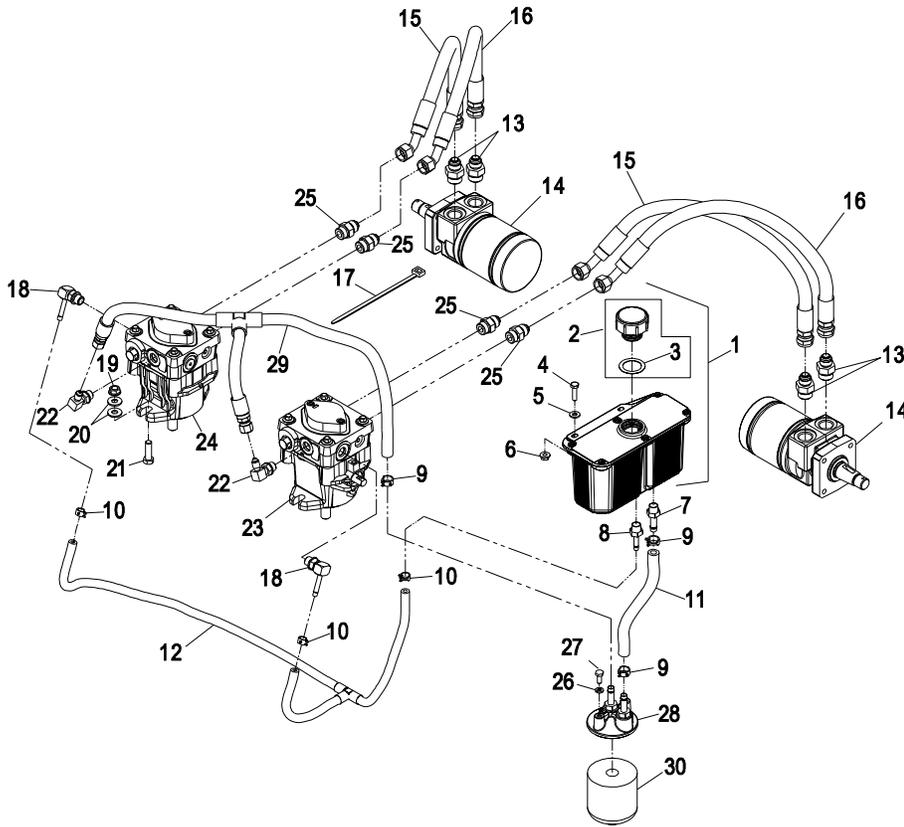
✚ Use Pro-lock, nut type (P/N 1-840022, .5ml tube) on fuel fitting threads.

◆ Use Pro-lock, retaining type (P/N 1-840023, .5cc tube) on stud threads going into the tank.

### **Kawasaki Replacement Parts List**

| <u>Description</u>          | <u>Kawasaki P/N</u> |
|-----------------------------|---------------------|
| Air Filter Element Kit..... | 11010-7004          |
| (Inner & Outer)             |                     |

# HYDRAULICS GROUP



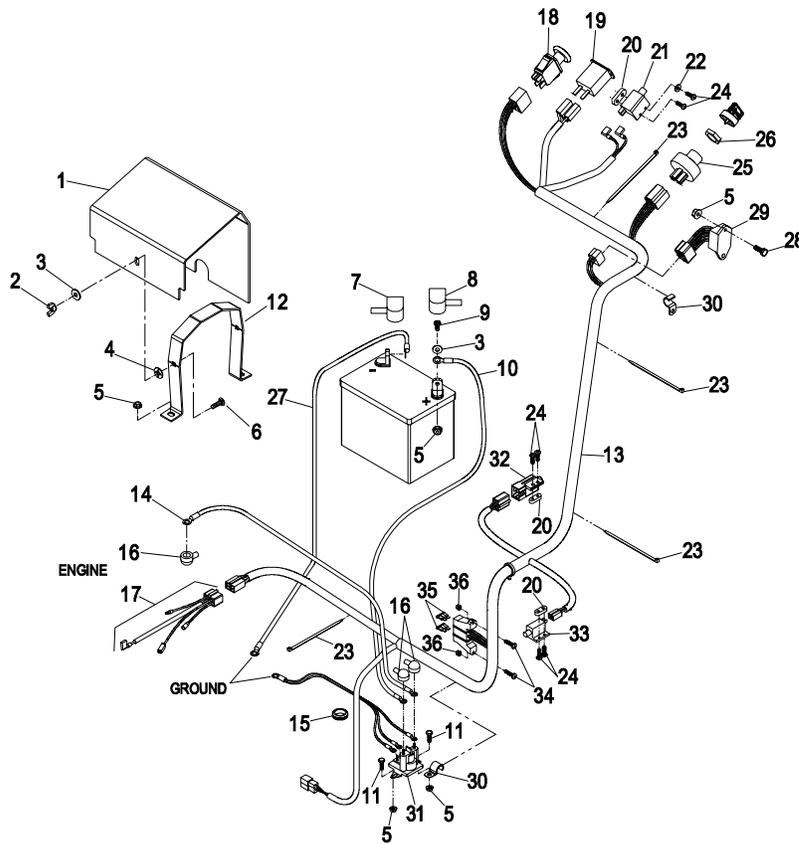
| Item | Part No. | Description                      | Qty. |
|------|----------|----------------------------------|------|
| 1    | 103-1947 | Asm, Hydraulic Reservoir.....    | 1    |
| 2    | 103-7615 | Asm, Cap W/Gasket.....           | 1    |
| 3    | 103-1949 | Gasket, Reservoir Cap.....       | 1    |
| 4    | 321-6    | Screw, 1/4-20 x 1.....           | 2    |
| 5    | 3256-22  | Washer, 1/4 SAE Flat.....        | 2    |
| 6    | 32128-33 | Nut, Whizlock 1/4-20.....        | 2    |
| 7    | 103-1912 | Adapter, Straight.....           | 1    |
|      | 1-603921 | O-Ring.....                      | 1    |
| 8    | 103-1801 | Adapter, Straight.....           | 1    |
|      | 1-603921 | O-Ring.....                      | 1    |
| 9    | 103-1988 | Clamp, Hose (11/16).....         | 3    |
| 10   | 103-1716 | Clamp, Hose (17/32).....         | 3    |
| 11   | 103-2958 | Hose, Charge.....                | 1    |
| 12   | 103-4607 | Asm, Case Drain Hose.....        | 1    |
| 13   | 1-603991 | Fitting, Straight Connector..... | 4    |
|      | 1-603919 | Boss O-Ring.....                 | 1    |
|      | 1-603992 | Flare O-Ring.....                | 1    |
| 14   | 1-603718 | Motor, Wheel.....                | 2    |
|      | 1-000119 | Kit, Seal.....                   | 1    |
|      | 1-000138 | Kit, Bearing.....                | 1    |
| 15   | 103-4609 | Hose, Hydro.....                 | 2    |
| 16   | 103-4610 | Hose, Hydro.....                 | 2    |
| 17   | 1-303335 | Tie, Cable (Large).....          | 1    |
| 18   | 103-1799 | Elbow, 90°.....                  | 2    |
|      | 1-603921 | O-Ring.....                      | 1    |
| 19   | 3290-357 | Nut, Whizlock 3/8-16.....        | 4    |

| Item | Part No. | Description                      | Qty. |
|------|----------|----------------------------------|------|
| 20   | 3256-3   | Washer, 5/16 Std.....            | 8    |
| 21   | 323-7    | Screw, 3/8-16 x 1-1/4.....       | 4    |
| 22   | 103-1802 | Elbow, 90°.....                  | 2    |
|      | 1-603921 | O-Ring.....                      | 1    |
| 23   | 109-4987 | Pump, Hydro.....                 | 1    |
|      | 103-2664 | Kit, Input Shaft 10A.....        | 1    |
|      | 94-6922  | Kit, Thrust Bearing 10A.....     | 1    |
|      | 103-2666 | Kit, Cylinder Block 10A.....     | 1    |
|      | 105-6184 | Kit, Overhaul Seal.....          | 1    |
| 24   | 109-4988 | Pump, Hydro.....                 | 1    |
|      | 103-2664 | Kit, Input Shaft 10A.....        | 1    |
|      | 94-6922  | Kit, Thrust Bearing 10A.....     | 1    |
|      | 103-2666 | Kit, Cylinder Block 10A.....     | 1    |
|      | 105-6184 | Kit, Overhaul Seal.....          | 1    |
| 25   | 1-603990 | Adapter, Straight Thread.....    | 4    |
|      | 1-603920 | Boss O-Ring.....                 | 1    |
|      | 1-603992 | Flare O-Ring.....                | 1    |
| 26   | 1-805004 | Washer, 1/4 Lock.....            | 2    |
| 27   | 321-3    | Screw, 1/4-20 x 5/8.....         | 2    |
| 28   | 103-2889 | Asm, Filter Head.....            | 1    |
|      | 103-1912 | Adapter, Straight.....           | 2    |
|      | 1-603921 | O-Ring.....                      | 1    |
| 29   | 103-4608 | Asm, Charge Hose.....            | 1    |
| 30   | 109-4180 | Element, Oil Filter.....         | 1    |
| ▲    | 1-523541 | Element, Oil Filter(Winter)..... | 1    |

Exmark black touch up spray paint – Gloss black.

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

# ELECTRICAL GROUP

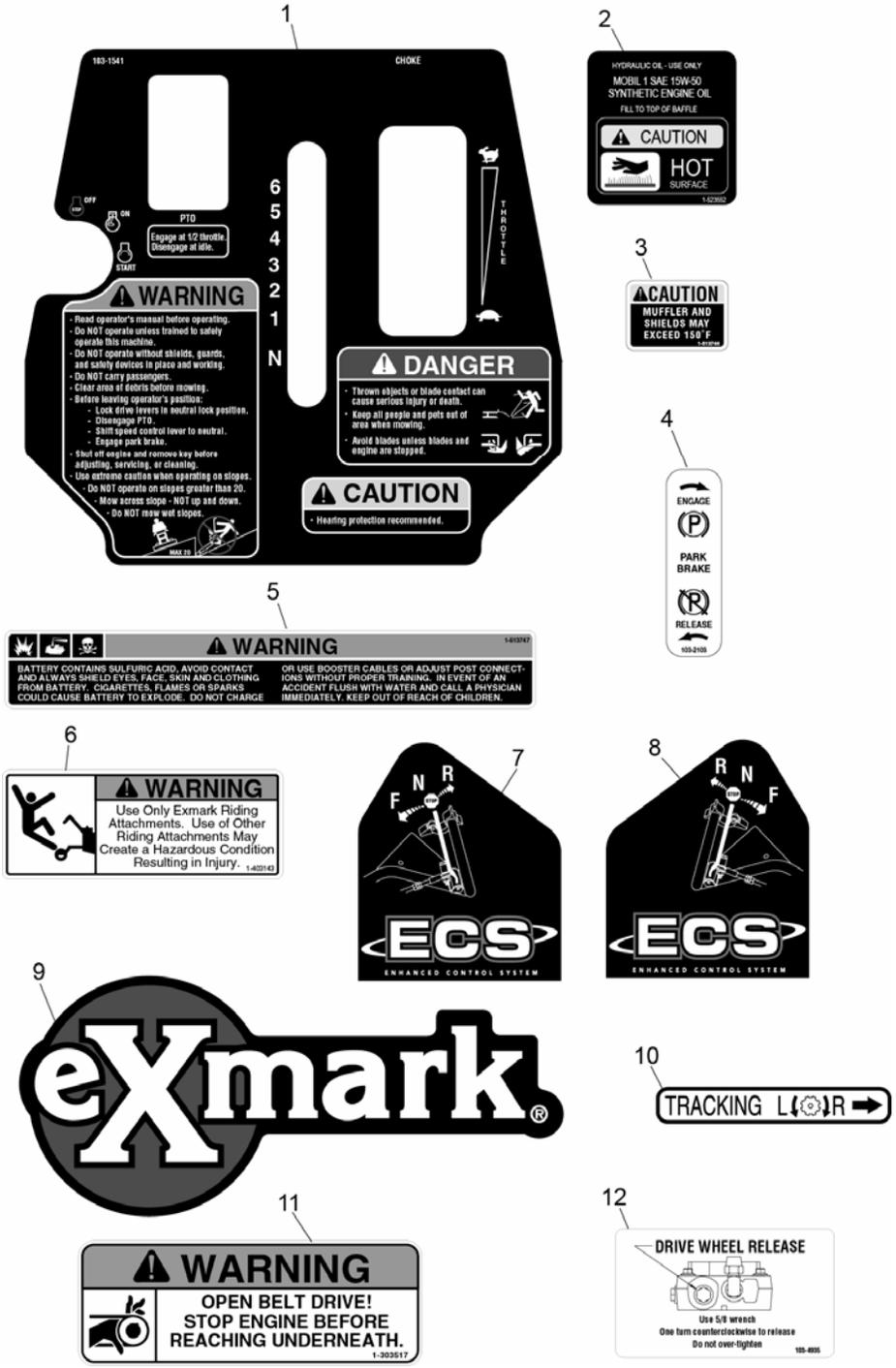


| Item | Part No.    | Description                             | Qty. |
|------|-------------|---|------|
| 1    | 103-3424    | Cover, Battery (1-603105) W/Decal ..... | 1    |
| 2    | 1-803038    | Wingnut, 1/4-20 .....                   | 2    |
| 3    | 3256-2      | Washer, 1/4 Flat .....                  | 4    |
| 4    | 1-803037    | Nut, Retaining 1/4-20.....              | 2    |
| 5    | 32128-33    | Nut, Whizlock 1/4-20.....               | 7    |
| 6    | 1-807512    | Bolt, Carriage 1/4-20 x 3/4 .....       | 2    |
| 7    | 1-543390    | Insulator, Battery - .....              | 1    |
| 8    | 1-543391    | Insulator, Battery + .....              | 1    |
| 9    | 321-4       | Screw, 1/4-20 x 3/4.....                | 2    |
| 10   | 1-513053    | Cable, Battery To Solenoid (+).....     | 1    |
| 11   | 321-2       | Screw, 1/4-20 x 1/2.....                | 2    |
| 12   | 1-603814-03 | Strap, Battery Holddown .....           | 1    |
| 13   | 109-2175    | Harness, Wiring.....                    | 1    |
| 14   | 1-603488    | Cable, Solenoid To Starter (+) .....    | 1    |
| 15   | 1-543286    | Grommet .....                           | 1    |
| 16   | 1-543393    | Insulator, Solenoid.....                | 3    |
| 17   | 1-613262    | Harness, Wiring.....                    | 1    |
| 18   | 103-5221    | Switch, PTO .....                       | 1    |
| 19   | 1-513374    | Meter, Engine Hour .....                | 1    |

| Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|
| 20   | 1-633181 | Plate, Tapped.....             | 3    |
| 21   | 1-513051 | Switch, N.O. ....              | 1    |
| 22   | 3256-14  | Washer, Flat #10 .....         | 1    |
| 23   | 1-303335 | Plastic Tie .....              | 4    |
| 24   | 3290-500 | Screw, #10-24 x 5/8 .....      | 6    |
| 25   | 1-543070 | Switch, Ignition W/Keys .....  | 1    |
|      | 1-603511 | Key, Ignition .....            | 1    |
|      | 103-2106 | Key, Exmark Logo .....         | 1    |
| 26   | 103-0498 | Nut, Ignition.....             | 1    |
| 27   | 1-543767 | Cable, Ground.....             | 1    |
| 28   | 321-3    | Screw, 1/4-20 x 5/8 .....      | 1    |
| 29   | 1-613198 | Module, Safety Interlock ..... | 1    |
| 30   | 103-1193 | Clip, Loom Half.....           | 2    |
| 31   | 1-513075 | Switch, 12V Solenoid .....     | 1    |
| 32   | 1-633111 | Switch, N.O./N.C. ....         | 1    |
| 33   | 1-513152 | Switch, N.C. ....              | 1    |
| 34   | 1-803075 | Screw, #10-24 x 3/4 .....      | 2    |
| 35   | 1-816001 | Fuse, Blade 20 Amp.....        | 2    |
| 36   | 3296-2   | Nut, Nyloc #10-24.....         | 2    |

Exmark black touch up spray paint – Gloss black.  
Apply dielectric grease to all electrical connectors.

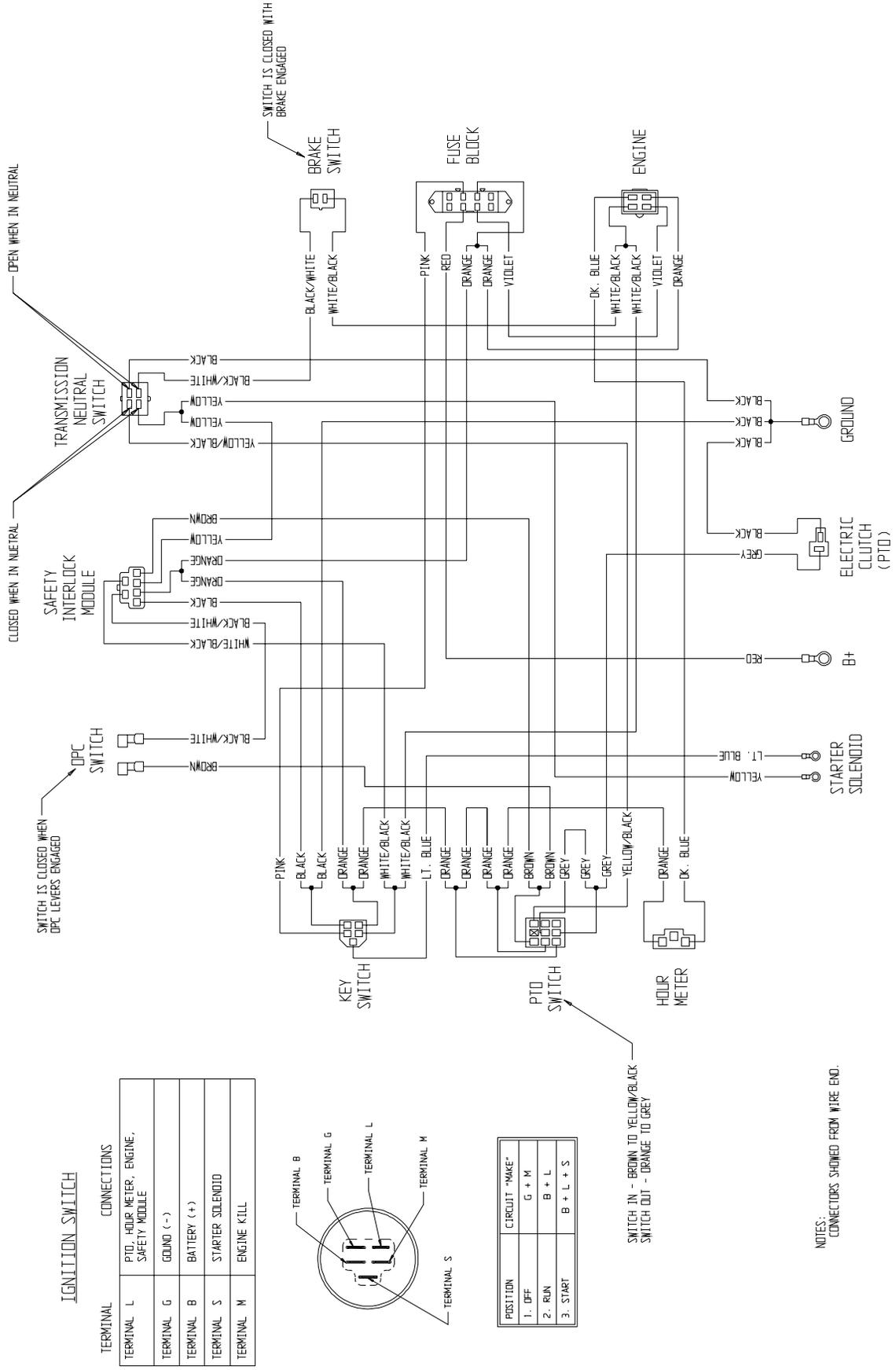
# DECALS



| Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|
| 1    | 103-1541 | Decal, Console ECS.....        | 1    |
| 2    | 1-523552 | Decal, Hydraulic Tank .....    | 1    |
| 3    | 1-513746 | Decal, Muffler .....           | 1    |
| 4    | 103-2432 | Decal, Park Brake.....         | 1    |
| 5    | 1-513747 | Decal, Battery .....           | 1    |
| 6    | 1-403143 | Decal, Sulky Warning .....     | 1    |
| 7    | 103-2242 | Decal, LH ECS Instruction..... | 1    |

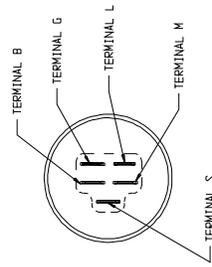
| Item | Part No. | Description                      | Qty. |
|------|----------|----------------------------------|------|
| 8    | 103-2243 | Decal, RH ECS Instruction .....  | 1    |
| 9    | 103-2882 | Decal, Exmark logo .....         | 1    |
| 10   | 1-413214 | Decal, Tracking. ....            | 1    |
| 11   | 1-303517 | Decal, Belt Drive.....           | 1    |
| 12   | 103-4935 | Decal, Drive Wheel Release ..... | 1    |
|      | 103-5828 | Kit, Decal Complete              |      |

# ELECTRICAL DIAGRAM



### IGNITION SWITCH

| TERMINAL   | CONNECTIONS                            |
|------------|--|
| TERMINAL L | PTO, HOUR METER, ENGINE, SAFETY MODULE |
| TERMINAL G | GROUND (-)                             |
| TERMINAL B | BATTERY (++)                           |
| TERMINAL S | STARTER SOLENOID                       |
| TERMINAL M | ENGINE KILL                            |

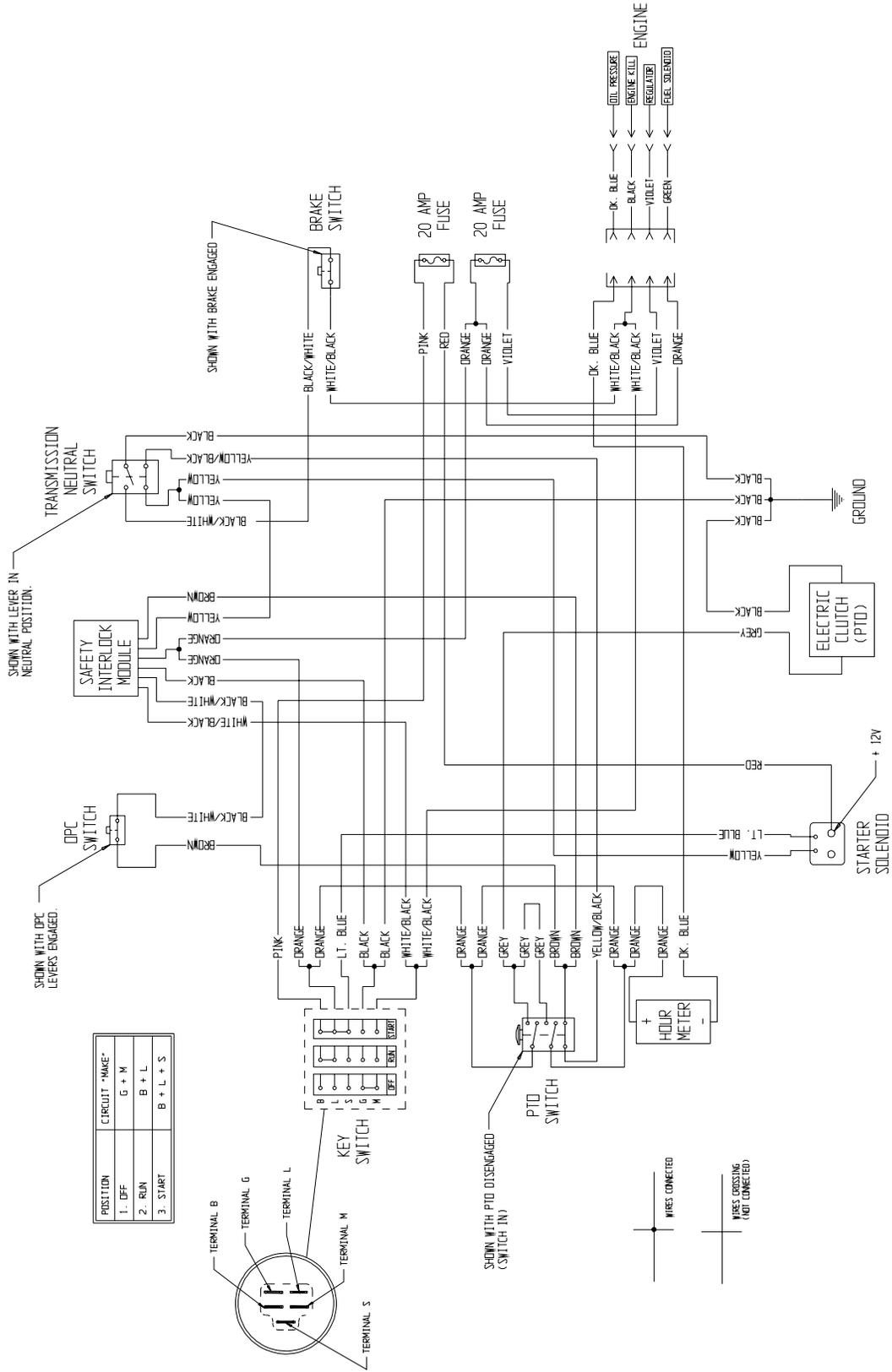


| POSITION | CIRCUIT "MAKE" |
|----------|----------------|
| 1. OFF   | G + M          |
| 2. RUN   | B + L          |
| 3. START | B + L + S      |

SWITCH IN - BROWN TO YELLOW/BLACK  
SWITCH OUT - ORANGE TO GREY

NOTES:  
CONNECTORS SHOWN FROM WIRE END.

# ELECTRICAL LOGIC SCHEMATIC



## NOTES



## **SEE EXMARK'S COMPLETE LINE OF ACCESSORIES**

### **RIDING ACCESSORIES**

CUSTOM RIDE SEAT SUSPENSION SYSTEM  
DECK LIFT ASSIST KIT  
HITCH KIT  
LIGHT KIT  
MICRO-MULCH SYSTEM  
ROLL OVER PROTECTION SYSTEM (ROPS)  
SNOW BLADE  
SUN SHADE  
TRASH CONTAINER  
TURF STRIPER  
ULTRA VAC COLLECTION SYSTEM  
ULTRA VAC QUICK DISPOSAL SYSTEM

### **WALK BEHIND ACCESSORIES**

GRASS CATCHER  
MICRO-MULCH SYSTEM  
STEERABLE SULKY  
SULKY HITCH KIT  
TURF STRIPER  
STANDON

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