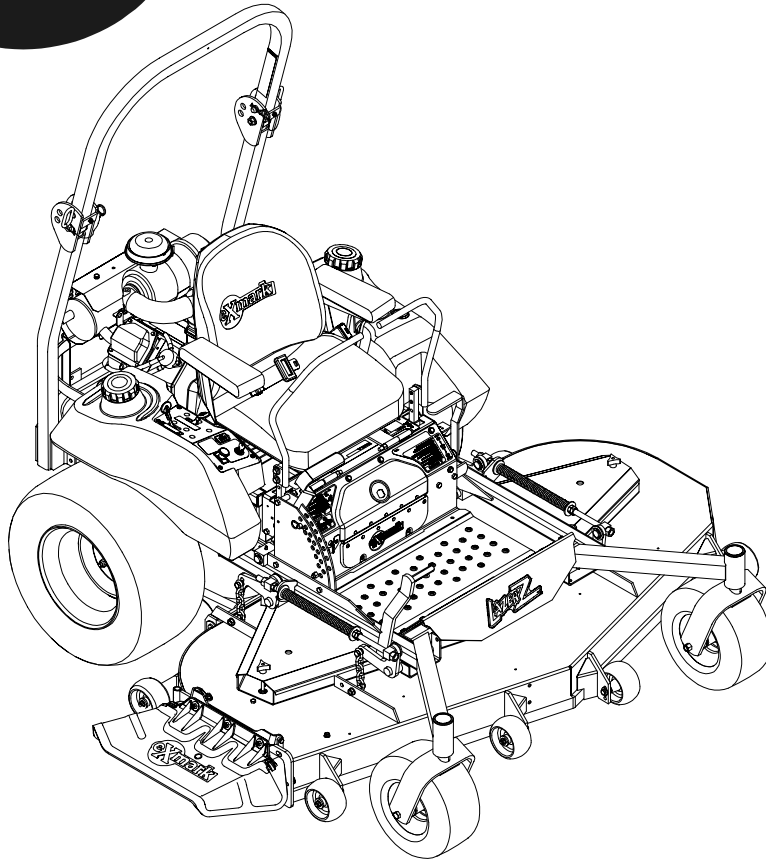


For Serial Nos.  
670,000 & Higher



# PARTS MANUAL

## LAZER Z<sup>®</sup>

### AIR-COOLED MODELS

**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 is located on the right side of the console. For ease of ordering and reference, we suggest that you record the information requested in the following identification table.

Place Model No. and Serial No. Label Here  
(Included in Literature Pack)  
or Fill in Below

Model No. \_\_\_\_\_

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

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

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

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

# EXMARK PARTS PLUS® PROGRAM

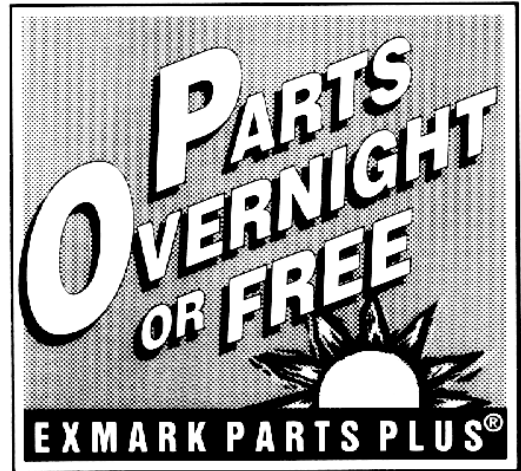
EFFECTIVE DATE: September 1, 1995

## 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.**

## **TABLE OF CONTENTS**

| <b><u>Description</u></b>        | <b><u>Page</u></b> |
|----------------------------------|--------------------|
| Deck Group.....                  | 3-5                |
| Decal Group.....                 | 25-26              |
| Electrical Diagrams .....        | 32-35              |
| Electrical Groups.....           | 27-31              |
| Electrical Logic Schematics..... | 36-39              |
| Engine Deck Group.....           | 17-20              |
| Front Frame Group .....          | 7-8                |
| Fuel Groups .....                | 11-12              |
| Hydraulics Group .....           | 21-24              |
| Main Frame Group.....            | 9-10               |
| Motion Control Group.....        | 15-16              |
| Park Brake Group .....           | 13-14              |
| Spindle Assembly .....           | 6                  |

## DECK GROUP

| Item | Part No.    | Description                      | Qty. |
|------|-------------|----------------------------------|------|
| 1    | 1-303334    | Washer, Spring Disk 5/16.....    | 1    |
| 2    | 1-303537    | Stud, Belt Shield .....          | 2    |
| 3    | 1-322110    | Wld, Belt Guide .....            | 1    |
| 4    | 1-323385    | Knob .....                       | 2    |
| 5    | 1-323417    | Washer, Belt Shield.....         | 2    |
| 6    | 1-603805    | Sheave, Idler.....               | 1    |
| 7    | 1-633109    | Sheave, Flat Idler.....          | 2    |
| 8    | 1-633456    | Bushing, Idler.....              | 2    |
| 9    | 98-5961     | Screw, HH 3/8-16 x 4 Gr8 .....   | 1    |
| 10   | 98-5975     | Washer, Spring Disk 3/8.....     | 3    |
| 11   | 103-2916    | Guard, Top.....                  | 1    |
| 12   | 103-3330    | Spring .....                     | 1    |
| 13   | 103-3504    | Bearing, Spherical.....          | 2    |
| 14   | 103-3505    | Seal, Double Lip.....            | 1    |
| 15   | 103-3506    | Seal, Single Lip.....            | 1    |
| 16   | 103-5677    | Spacer .....                     | 1    |
| 17   | 103-8103-01 | Latch, Belt Shield.....          | 2    |
| 18   | 109-2097    | Asm, Shield W/Decal 60" RH ..... | 1    |
|      | 109-2133    | Asm, Shield W/Decal 66" RH ..... | 1    |
|      | 109-2135    | Asm, Shield W/Decal 72"RH .....  | 1    |
| 19   | 109-2096    | Asm, Shield W/Decal 60" LH.....  | 1    |
|      | 109-2132    | Asm, Shield W/Decal 66" LH.....  | 1    |
|      | 109-2134    | Asm, Shield W/Decal 72" LH.....  | 1    |
| 20   | 105-7699    | Strip-Seal, 3" .....             | 4    |
| 21   | 106-7159    | O-Ring .....                     | 2    |

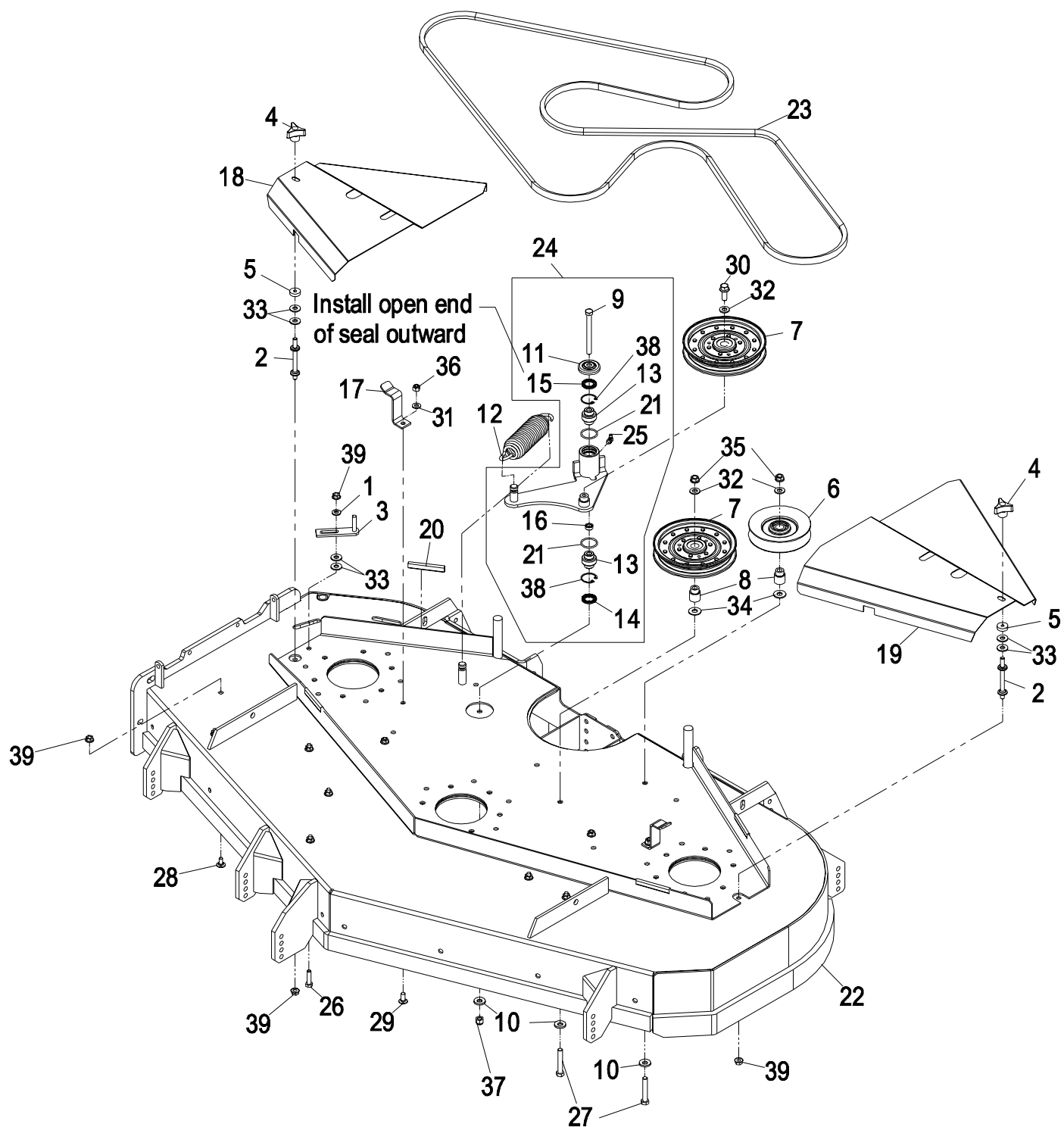
| Item | Part No. | Description                        | Qty. |
|------|----------|------------------------------------|------|
| 22   | 109-2100 | Asm, Deck W/Decals 60" .....       | 1    |
|      | 109-2103 | Asm, Deck W/Decals 66" .....       | 1    |
|      | 109-2105 | Asm, Deck W/Decals 72" .....       | 1    |
| 23   | 1-633127 | Belt 60" .....                     | 1    |
|      | 109-5018 | Belt 66" .....                     | 1    |
|      | 1-643052 | Belt 72" .....                     | 1    |
| 24✱  | 109-2095 | Kit, Idler Arm W/Bearings.....     | 1    |
| 25   | 302-40   | Zerk, 90° 1/4-28.....              | 1    |
| 26   | 322-6    | Screw, HH 5/16-18 x 1 1/4.....     | 1    |
| 27   | 323-11   | Screw, HH 3/8-16 x 2 1/4.....      | 2    |
| 28   | 3230-18  | Bolt, Carriage 5/16-18 x 5/8 ..... | 9    |
| 29   | 3230-22  | Bolt, Carriage 5/16-18 x 1 Sp..... | 2    |
| 30   | 3234-11  | Screw, HH FLG 3/8-16 x 1 .....     | 1    |
| 31   | 3256-23  | Washer, 5/16 SAE .....             | 2    |
| 32   | 3256-24  | Washer, 3/8 SAE .....              | 3    |
| 33   | 3256-3   | Washer, 5/16 Std .....             | 6    |
| 34   | 3256-4   | Washer, 3/8 Std.....               | 2    |
| 35   | 3290-357 | Nut, Whizlock 3/8-16.....          | 2    |
| 36   | 3296-29  | Nut, Nyloc 5/16-18 .....           | 2    |
| 37   | 3296-39  | Nut, Nyloc 3/8-16 .....            | 1    |
| 38   | 32120-10 | Ring, Retaining .....              | 2    |
| 39   | 32128-20 | Nut, Whizlock 5/16-18.....         | 12   |
| 40▲  | 109-2101 | Asm, Deck Complete 60" .....       | 1    |
|      | 109-2104 | Asm, Deck Complete 66" .....       | 1    |
|      | 109-2106 | Asm, Deck Complete 72" .....       | 1    |

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

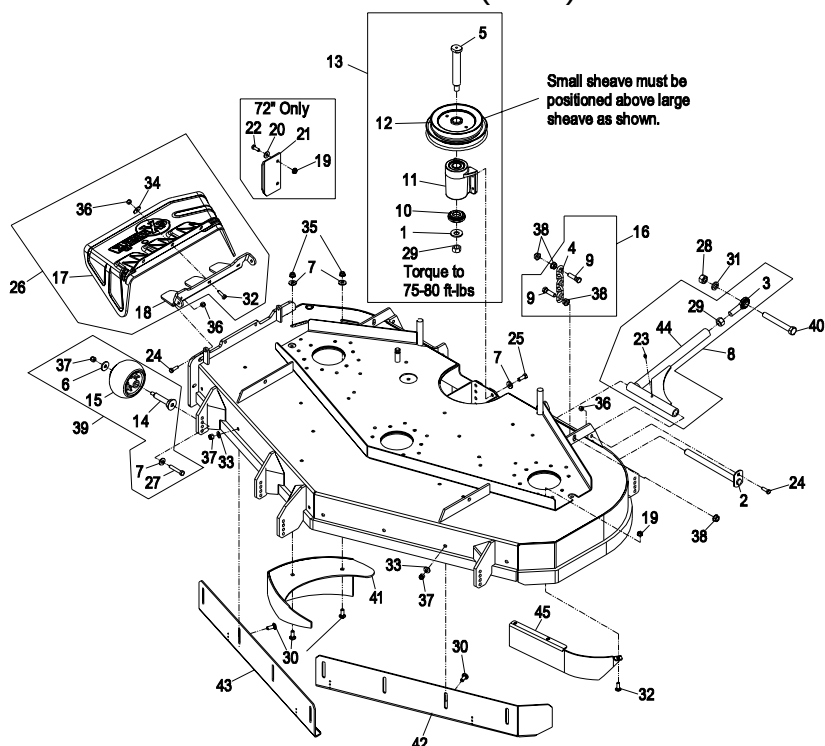
▲ Complete deck assembly includes all items from pages 3 – 6 except items ( #8, #16, #28, #31,#38, and #40 from page 5) and includes mule drive belt from page 16.

✱ Kit also includes items #10 & #37.

# DECK GROUP



## DECK GROUP (cont.)



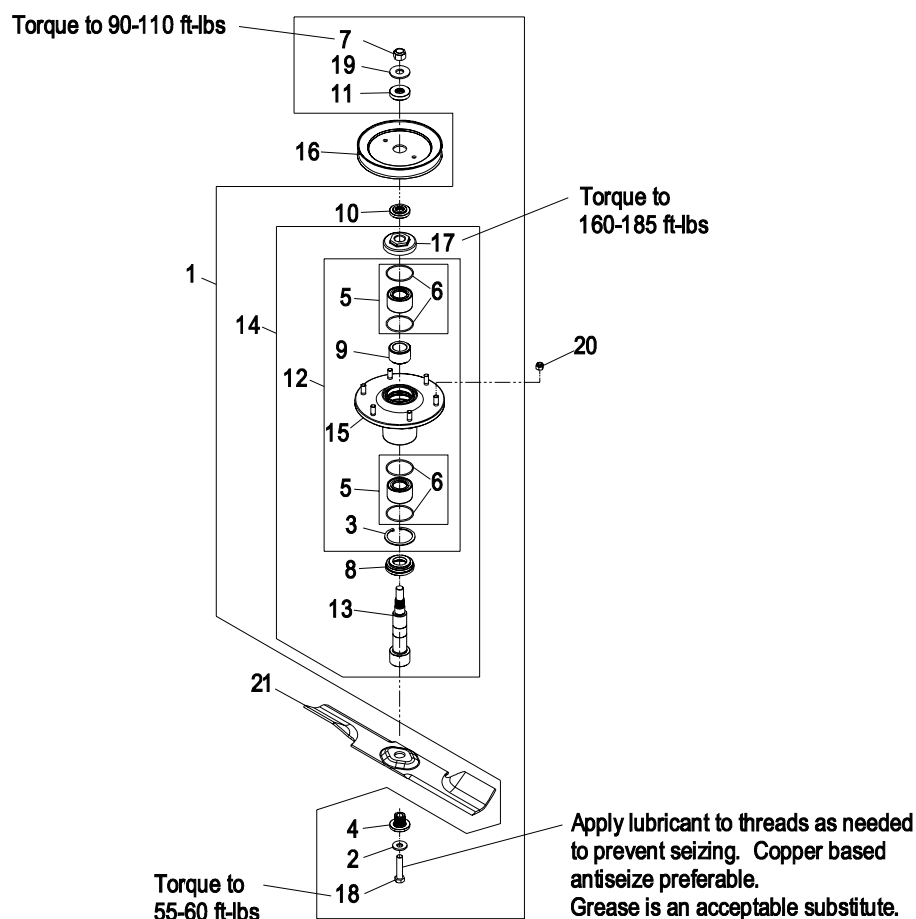
| Item | Part No.    | Description                       | Qty. |
|------|-------------|-----------------------------------|------|
| 1    | 1-513208    | Washer, Spring Disk 5/8.....      | 1    |
| 2    | 1-632199-01 | Wld, Pin Deck Strut.....          | 2    |
| 3    | 1-633029    | Balljoint.....                    | 2    |
| 4    | 1-633447    | Chain, Deck Lift.....             | 4    |
| 5●   | 1-643393    | Jackshaft, Lazer.....             | 1    |
| 6    | 63-8410     | Washer.....                       | 6    |
| 7    | 98-5975     | Washer, Spring Disk 3/8.....      | 12   |
| 8    | 103-1081    | Asm, Strut 60".....               | 2    |
|      | 103-1083    | Asm, Strut 66" & 72".....         | 2    |
| 9    | 103-1898    | Screw, HH 7/16-20 x 1-5/8 Sp..... | 8    |
| 10   | 103-2535    | Spacer, Guard Bottom.....         | 1    |
| 11●  | 103-9746    | Asm, Jackshaft Housing.....       | 1    |
| 12●  | 103-3046    | Sheave, Jack Shaft- Double.....   | 1    |
| 13   | 103-3249    | Asm, Jackshaft.....               | 1    |
| 14   | 103-5364    | Axle, Anti-Scalp Roller.....      | 6    |
| 15   | 103-8415    | Roller, Anti-Scalp.....           | 6    |
| 16   | 103-9792    | Asm, Chain Deck.....              | 4    |
| 17   | 109-2739    | Chute, Discharge LZ.....          | 1    |
| 18   | 109-0498-01 | Hinge, Grass Discharge.....       | 1    |
| 19   | 32128-20    | Nut, Whizlock 5/16-18 72".....    | 2    |
|      | 32128-20    | Nut, Whizlock 5/16-18 60".....    | 3    |
| 20   | 3256-3      | Washer, 5/16 Std 72".....         | 2    |
| 21   | 103-9423-01 | Deflector, Discharge 72".....     | 1    |
| 22   | 322-4       | Screw, HH 5/16-18 x 7/8 72".....  | 2    |
| 23   | 302-19      | Zerk, 1/4-28 Str.....             | 4    |
| 24   | 322-5       | Screw, HH 5/16-18 x 1.....        | 4    |
| 25   | 323-6       | Screw, HH 3/8-16 x 1.....         | 4    |
| 26   | 109-2099    | Asm, Discharge Chute.....         | 1    |
| 27   | 3211-46     | Screw, HH 3/8-24 x 2 Gr8.....     | 6    |

| Item | Part No.    | Description                               | Qty. |
|------|-------------|-------------------------------------------|------|
| 28   | 3217-11     | Nut, Hex 5/8-11.....                      | 2    |
| 29   | 3219-6      | Nut, Hex 5/8-18.....                      | 3    |
| 30   | 3231-22     | Bolt, Carriage 3/8-16 x 1.....            | 10   |
| 31   | 3253-8      | Washer, Lock 5/8.....                     | 2    |
| 32   | 3230-22     | Bolt, Carriage 5/16-18 x 1 66" & 72"..... | 3    |
|      | 3230-22     | Bolt, Carriage 5/16-18 x 1 60".....       | 6    |
| 33   | 3256-24     | Washer, 3/8 SAE.....                      | 8    |
| 34   | 3256-82     | Washer.....                               | 3    |
| 35   | 3290-357    | Nut, Whizlock 3/8-16.....                 | 2    |
| 36   | 3296-29     | Nut, Nyloc 5/16-18.....                   | 7    |
| 37   | 3296-39     | Nut, Nyloc 3/8-16.....                    | 14   |
| 38   | 32128-37    | Nut, Whizlock 7/16-14.....                | 16   |
| 39   | 109-2098    | Kit, Anti-Scalp Roller.....               | 6    |
| 40   | 327-11      | Screw, HH 5/8-11 x 5 60".....             | 2    |
|      | 327-28      | Screw, HH 5/8-11 x 5 1/2 66" & 72".....   | 2    |
| 41   | 109-0694-01 | Wld, Dogleg 60".....                      | 1    |
|      | 109-0821-01 | Wld, Dogleg 66".....                      | 1    |
|      | 109-1039-01 | Wld, Dogleg 72".....                      | 1    |
| 42   | 109-0701-01 | Wld, Baffle Front Adj LH 60".....         | 1    |
|      | 109-0822-01 | Wld, Baffle Front Adj LH 66".....         | 1    |
|      | 109-1044-01 | Wld, Baffle Front Adj LH 72".....         | 1    |
| 43   | 109-0704-01 | Wld, Baffle Front Adj RH 60".....         | 1    |
|      | 109-0823-01 | Wld, Baffle Front Adj RH 66".....         | 1    |
|      | 109-1047-01 | Wld, Baffle Front Adj RH 72".....         | 1    |
| 44   | 103-1072-01 | Wld, Deck Strut-Std 60".....              | 2    |
|      | 103-1073-01 | Wld, Deck Strut-Std 66" & 72".....        | 2    |
| 45   | 109-5424-01 | Baffle, Scroll 60".....                   | 1    |
|      | 109-5531-01 | Baffle, Scroll 66".....                   | 1    |
|      | 109-5532-01 | Baffle, Scroll 72".....                   | 1    |

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

- Apply Mobil HTS grease (P/N 103-5217 1.5 oz packet) (or a food-grade antiseize) between the jackshaft and bearings and jackshaft and sheaves. DO NOT use a copper or nickel based antiseize.

## SPINDLE ASSEMBLY



| Item | Part No. | Description                        | Qty. |
|------|----------|------------------------------------|------|
| 1    | 109-2102 | Asm, Cutter Housing Complete ..... | 3    |
| 2    | 1-513435 | Washer, Spring Disk 1/2.....       | 3    |
| 3    | 92-5581  | Retaining Ring, Internal.....      | 3    |
| 4    | 103-3037 | Bushing, Splined .....             | 3    |
| 5    | 109-2064 | Asm, Bearing W/O-Rings .....       | 6    |
| 6    | 103-5895 | O-Ring .....                       | 12   |
| 7    | 3296-41  | Nut, Nyloc 5/8-18 .....            | 3    |
| 8    | 103-9504 | Guard, Bottom.....                 | 3    |
| 9    | 103-9506 | Spacer, Bearing .....              | 3    |
| 10   | 103-9522 | Spacer, Splined Stepped.....       | 3    |
| 11   | 103-9523 | Spacer, Splined.....               | 3    |
| 12   | 103-9539 | Asm, Cutter Housing.....           | 3    |
| 13●  | 103-9540 | Spindle, Double Spline .....       | 3    |
| 14   | 103-9541 | Asm, Spindle Housing.....          | 3    |
| 15   | 109-0764 | Asm, Housing W/Studs .....         | 3    |
| 16   | 109-1023 | Sheave, Blade Drive 60" .....      | 3    |
|      | 109-0914 | Sheave, Blade Drive 66" .....      | 3    |
|      | 109-0929 | Sheave, Blade Drive 72" .....      | 3    |
| 17   | 109-1058 | Nut, Spindle 7/8-14 .....          | 3    |
| 18   | 3213-6   | Screw, HH 1/2-20 x 2 1/4 .....     | 3    |
| 19   | 3256-7   | Washer, 5/8 Std .....              | 3    |
| 20   | 3296-39  | Nut, Nyloc 3/8-16 .....            | 18   |

| Item | Part No. | Description                         | Qty. |
|------|----------|-------------------------------------|------|
| 21   | 103-8240 | Blade, Low Lift 60" .....           | 3    |
|      | 103-8396 | Blade, Medium Lift 60" .....        | 3    |
|      | 103-8239 | Blade, High Lift Solid 60" .....    | 3    |
|      | 103-8244 | Blade, High Lift Notched 60" .....  | 3    |
|      | 103-8432 | Blade, High Lift Ls 60" .....       | 3    |
|      | 103-8431 | Blade, High Lift Ls Solid 60" ..... | 3    |
| ■    | 109-5396 | Blade, Mulch 60" .....              | 3    |
|      | 103-9616 | Blade, Low Lift 66" .....           | 3    |
|      | 103-9619 | Blade, Medium Lift 66" .....        | 3    |
|      | 103-9617 | Blade, High Lift Solid 66" .....    | 3    |
|      | 103-9618 | Blade, High Lift Notched 66" .....  | 3    |
|      | 103-9620 | Blade, High Lift Ls 66" .....       | 3    |
|      | 103-9621 | Blade, High Lift Ls Solid 66" ..... | 3    |
| ■    | 109-5878 | Blade, Mulch 66" .....              | 3    |
|      | 103-9622 | Blade, Low Lift 72" .....           | 3    |
|      | 103-9625 | Blade, Medium Lift 72" .....        | 3    |
|      | 103-9623 | Blade, High Lift Solid 72" .....    | 3    |
|      | 103-9624 | Blade, High Lift Notched 72" .....  | 3    |
|      | 103-9626 | Blade, High Lift Ls 72" .....       | 3    |
|      | 103-9627 | Blade, High Lift Ls Solid 72" ..... | 3    |
| ■    | 109-5879 | Blade, Mulch 72" .....              | 3    |

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

■ Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK605 (60"), MK665 (66") and MK725 (72").

● Apply Mobil HTS grease (P/N 103-5217 1.5 oz packet) (or a food-grade antiseize) between the spindles and bearings. DO NOT use a copper or nickel based antiseize.

## FRONT FRAME GROUP

| Item | Part No.    | Description                                   | Qty. |
|------|-------------|-----------------------------------------------|------|
| 1▲   | 109-2072    | Asm, Front Frame, 60" .....                   | 1    |
| ▲    | 109-2073    | Asm, Front Frame, 66" .....                   | 1    |
| ▲    | 109-2074    | Asm, Front Frame, 72" .....                   | 1    |
| 2    | 302-19      | Zerk, 1/4-28 Straight .....                   | 5    |
| 3    | 109-1903    | Asm, Floorpan (103-8274-01)<br>W/Decals ..... | 1    |
| 4    | 1-543509    | Bearing Cone, Tapered Roller .....            | 4    |
| 5    | 103-2084    | Asm, Lever (103-2083-03)W/Grip .....          | 1    |
| 6    | 1-633295    | Grip, Lift Lever .....                        | 1    |
| 7    | 103-9529-03 | Arm Wldmt, Deck Lift .....                    | 1    |
| 8    | 1-633325    | Spring, Compression .....                     | 1    |
| 9    | 3256-24     | Washer, 3/8 SAE Flat .....                    | 1    |
| 10   | 3296-39     | Nut, Nyloc 3/8-16 .....                       | 4    |
| 11   | 32151-103   | E-Ring .....                                  | 5    |
| 12   | 1-633068    | Arm, Deck Lift .....                          | 2    |
| 13   | 1-633889-01 | Plate, Deck Lift .....                        | 1    |
| 14   | 108-7759-01 | Wld, Deck Lift Plate .....                    | 1    |
| 15   | 1-633082    | Bushing, Lift Lever .....                     | 1    |
| 16   | 109-3193    | Stop, Deck Height .....                       | 1    |
| 17   | 323-13      | Screw, 3/8-16 x 2 3/4 .....                   | 1    |
| 18   | 1-633097    | Hitch Pin W/Lanyard .....                     | 1    |
| 19   | 1-806005    | Hairpin Cotter .....                          | 1    |
| 20   | 323-9       | Screw, 3/8-16 x 1 3/4 .....                   | 2    |
| 21   | 98-5975     | Washer, 3/8 Disc Spring .....                 | 12   |
| 22   | 3290-357    | Nut, Whizlock 3/8-16 .....                    | 15   |
| 23   | 323-6       | Screw, 3/8-16 x 1 .....                       | 1    |
| 24   | 323-7       | Screw, 3/8-16x1 1/4 .....                     | 12   |
| 25   | 3256-29     | Washer, 7/8 SAE Flat .....                    | 4    |
| 26   | 1-633096    | Rod, Deck Lift .....                          | 2    |
| 27   | 3217-11     | Nut, 5/8-11 Regular .....                     | 6    |
| 28   | 1-633441    | Swivel, Deck Mount .....                      | 4    |
| 29   | 3256-7      | Washer, 5/8 Std Flat .....                    | 4    |

| Item | Part No.    | Description                                           | Qty. |
|------|-------------|-------------------------------------------------------|------|
| 30   | 109-4963    | Spring, Deck Support .....                            | 2    |
| 31   | 103-4882    | Cap, Grease .....                                     | 2    |
| 32   | 3218-6      | Jam Nut, 5/8-11 .....                                 | 6    |
| 33   | 109-1902    | Asm, Floorpan, Liftout (103-8276-01)<br>W/Decal ..... | 1    |
| 34   | 1-543511    | Seal, Grease .....                                    | 2    |
| 35   | 103-1474-01 | Caster Wldmt .....                                    | 2    |
| 36   | 3296-51     | Nut, 3/4-10 Nyloc .....                               | 2    |
| 37   | 1-633508    | Washer, Spring Disk .....                             | 6    |
| 38   | 325-39      | Screw, 1/2-13 x 9 1/2 .....                           | 2    |
| 39   | 1-811010    | Plug .....                                            | 2    |
| 40   | 103-2768    | Guard, Seal .....                                     | 4    |
| 41   | 3296-23     | Nut, 1/2-13 Nyloc .....                               | 2    |
| 42   | 3230-1      | Bolt, Carriage 5/16-18 x 3/4 .....                    | 4    |
| 43   | 103-0063    | Seal, Bearing .....                                   | 4    |
| 44   | 1-633585    | Bearing Cone .....                                    | 4    |
| 45   | 32128-20    | Nut, Whizlock 5/16-18 .....                           | 4    |
| 46   | 103-5156    | Axle, Caster .....                                    | 2    |
| 47   | 103-1918    | Bushing .....                                         | 2    |
| 48   | 323-29      | Screw, 3/8-16 x 1 3/8 .....                           | 2    |
| 49   | 32151-29    | Ring, Retaining .....                                 | 2    |
| 50   | 3274-18     | Screw, Socket HD5/16-18x1 1/4 .....                   | 2    |
| 51   | 1-543508    | Bearing Cup, Tapered Roller .....                     | 4    |
| 52+  | 103-3051    | Spacer, Nut .....                                     | 4    |
| 53   | 103-3799    | Asm, Caster Wheel (Semi-Pneumatic) ...                | 2    |
| 54   | 3218-2      | Jam Nut, 5/16-18 .....                                | 2    |
| 55   | 103-9741-01 | Weldmt, Front Lift Shaft (LH) .....                   | 1    |
| 56   | 103-9740-01 | Weldmt, Front Lift W/Lever(RH) .....                  | 1    |
| 57   | 1-523157    | Washer, Spacer .....                                  | 2    |
| 58■  | 109-4995    | Asm, Deck Lift Spring .....                           | 2    |
| ●    | 103-2047    | Asm, Deck Lift Spring .....                           | 2    |

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

- ✚ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on spacer nut, Item #52.
- ▲ Includes frame weldment plus items #2, #31, #34, #39, #49, #51, #55, #56 and #57.
- For all units except Serial Numbers 688,160 – 688,329
- For units with Serial Numbers 688,160 – 688,329

This technical drawing is an exploded view of a mechanical assembly, likely a vehicle chassis or a large machine frame. The diagram shows the main structural components and their associated fasteners, arranged in an exploded manner to show their relative positions and assembly sequence. The parts are numbered 1 through 58.

- Main Frame Components:**
  - 1:** A long, central horizontal beam or chassis rail.
  - 2:** A smaller horizontal beam or support rail.
  - 3:** A large, curved structural plate or fender.
  - 4:** A series of small, cylindrical bushings or spacers.
  - 5:** A vertical support bracket or hanger.
  - 6:** A small rectangular plate or gasket.
  - 7:** A vertical support bracket or hanger.
  - 8:** A small cylindrical component, possibly a pin or bushing.
  - 9:** A small cylindrical component, possibly a pin or bushing.
  - 10:** A small cylindrical component, possibly a pin or bushing.
  - 11:** A small cylindrical component, possibly a pin or bushing.
  - 12:** A small cylindrical component, possibly a pin or bushing.
  - 13:** A curved structural plate or fender.
  - 14:** A small cylindrical component, possibly a pin or bushing.
  - 15:** A small cylindrical component, possibly a pin or bushing.
  - 16:** A small cylindrical component, possibly a pin or bushing.
  - 17:** A small cylindrical component, possibly a pin or bushing.
  - 18:** A small cylindrical component, possibly a pin or bushing.
  - 19:** A small cylindrical component, possibly a pin or bushing.
  - 20:** A small cylindrical component, possibly a pin or bushing.
  - 21:** A small cylindrical component, possibly a pin or bushing.
  - 22:** A small cylindrical component, possibly a pin or bushing.
  - 23:** A small cylindrical component, possibly a pin or bushing.
  - 24:** A small cylindrical component, possibly a pin or bushing.
  - 25:** A small cylindrical component, possibly a pin or bushing.
  - 26:** A long, thin rod or shaft.
  - 27:** A small cylindrical component, possibly a pin or bushing.
  - 28:** A small cylindrical component, possibly a pin or bushing.
  - 29:** A small cylindrical component, possibly a pin or bushing.
  - 30:** A coiled spring.
  - 31:** A small cylindrical component, possibly a pin or bushing.
  - 32:** A small cylindrical component, possibly a pin or bushing.
  - 33:** A rectangular plate with a grid of circular holes.
  - 34:** A small cylindrical component, possibly a pin or bushing.
  - 35:** A small cylindrical component, possibly a pin or bushing.
  - 36:** A small cylindrical component, possibly a pin or bushing.
  - 37:** A small cylindrical component, possibly a pin or bushing.
  - 38:** A small cylindrical component, possibly a pin or bushing.
  - 39:** A small cylindrical component, possibly a pin or bushing.
  - 40:** A small cylindrical component, possibly a pin or bushing.
  - 41:** A small cylindrical component, possibly a pin or bushing.
  - 42:** A small cylindrical component, possibly a pin or bushing.
  - 43:** A small cylindrical component, possibly a pin or bushing.
  - 44:** A small cylindrical component, possibly a pin or bushing.
  - 45:** A small cylindrical component, possibly a pin or bushing.
  - 46:** A small cylindrical component, possibly a pin or bushing.
  - 47:** A small cylindrical component, possibly a pin or bushing.
  - 48:** A small cylindrical component, possibly a pin or bushing.
  - 49:** A small cylindrical component, possibly a pin or bushing.
  - 50:** A small cylindrical component, possibly a pin or bushing.
  - 51:** A small cylindrical component, possibly a pin or bushing.
  - 52:** A small cylindrical component, possibly a pin or bushing.
  - 53:** A small cylindrical component, possibly a pin or bushing.
  - 54:** A small cylindrical component, possibly a pin or bushing.
  - 55:** A small cylindrical component, possibly a pin or bushing.
  - 56:** A small cylindrical component, possibly a pin or bushing.
  - 57:** A small cylindrical component, possibly a pin or bushing.
  - 58:** A small cylindrical component, possibly a pin or bushing.

## MAINFRAME GROUP

| Item | Part No. | Description                            | Qty. |
|------|----------|----------------------------------------|------|
| 1+   | 1-643255 | Track, Seat (4" Adjustable).....       | 1    |
| +    | 103-8386 | Spring, Seat Rail .....                | 1    |
| ▲    | 109-2009 | Asm, Seat Tracks.....                  | 1    |
| 2●+  | 103-3524 | Seat .....                             | 1    |
| ●▲   | 109-2005 | Seat .....                             | 1    |
| 3    | 1-543401 | Spacer, Seat Track .....               | 2    |
| 4    | 322-3    | Screw, 5/16-18 x 3/4 .....             | 6    |
| 5+   | 103-3521 | Cushion, Seat .....                    | 1    |
| ▲    | 109-2008 | Cushion, Seat .....                    | 1    |
| 6    | 103-3520 | Cushion, Backrest.....                 | 1    |
| 7    | 103-0292 | Cushion, Armrest (RH).....             | 1    |
| 8*   | 103-0291 | Cushion Armrest (LH) .....             | 1    |
| 9    | 1-633859 | Seat Frame .....                       | 1    |
| 10   | 3256-3   | Washer, 5/16 Std Flat .....            | 2    |
| 11+  | 109-3966 | Asm, Frame (109-3965-03) W/Decals .... | 1    |
| ▲    | 109-6672 | Asm, Frame (109-6128-03) W/Decals .... | 1    |
| 12   | 109-3158 | Wheel/Tire Assy.....                   | 2    |
|      | 103-2744 | Tire, 24x12-12 4 Ply .....             | 2    |
|      | 109-3156 | Wheel .....                            | 2    |
| 13   | 109-2075 | Asm, Console (103-8273-03) W/Decals .  | 1    |
| 14   | 103-4423 | Asm, Seat Frame .....                  | 1    |
| 15   | 242-50   | Nut, Wheel 1/2-20 .....                | 8    |
| 16   | 1-633293 | Rod, Seat Hold-Up.....                 | 1    |
| 17   | 322-5    | Screw, 5/16-18 x 1 .....               | 1    |
| 18   | 323-39   | Screw, 3/8-16 x 5 .....                | 2    |
| 19   | 3296-2   | Nut, Nyloc #10-24 .....                | 8    |
| 20   | 3296-29  | Nut, Nyloc 5/16-18 .....               | 3    |
| 21   | 3296-39  | Nut, Nyloc 3/8-16 .....                | 3    |
| 22   | 3290-357 | Nut, Whizlock 3/8-16.....              | 10   |
| 23   | 32128-20 | Nut, Whizlock 5/16-18 .....            | 8    |
| 24   | 323-20   | Screw, 3/8-16 x 3-1/4 .....            | 1    |
| 25   | 3256-24  | Washer, 3/8 SAE Flat.....              | 1    |

| Item | Part No.    | Description                            | Qty. |
|------|-------------|----------------------------------------|------|
| 26   | 110-0883    | Kit, Seat Belt.....                    | 1    |
| 27   | 107-3083    | Latch, Seat .....                      | 1    |
| 28   | 322-4       | Screw, 5/16-18 x 7/8 .....             | 2    |
| 29   | 1-513658    | Bumper.....                            | 2    |
| 30   | 3256-23     | Washer, 5/16 SAE Flat .....            | 6    |
| 31   | 103-4434    | Grip .....                             | 1    |
| 32   | 323-6       | Screw, 3/8-16 x 1.....                 | 2    |
| 33   | 1-633964-03 | Stop, Park Brake.....                  | 1    |
| 34   | 103-8383    | Bolt, Seat Cushion .....               | 11   |
| 35   | 3296-73     | Nut, Nyloc 1/4-20 (black) .....        | 2    |
| 36   | 322-7       | Screw, 5/16-18 x 1 1/2 .....           | 2    |
| 37   | 109-2365    | Bumper.....                            | 2    |
| 38   | 3212-4      | Screw, 7/16-20 x 1.00 .....            | 2    |
| 39   | 3296-7      | Nut, Nyloc 7/16-20 .....               | 2    |
| 40■  | 103-4553    | Asm, ROPS Fold Pin .....               | 2    |
| 41   | 107-0075    | Bushing .....                          | 1    |
| 42   | 107-0076    | Spring .....                           | 1    |
| 43   | 107-3058    | Catch, Seat Latch .....                | 1    |
| 44   | 3256-14     | Washer, #10 STD Flat .....             | 8    |
| 45   | 32122-28    | Screw, Truss HD #10-24 x 1 .....       | 4    |
| 46   | 1-803075    | Screw, Truss HD #10-24 x 3/4 .....     | 2    |
| 47   | 3290-500    | Screw, Pan Head #10-24 x 5/8 .....     | 2    |
| 48   | 103-3790    | Latch, Cubby Door.....                 | 1    |
| 49   | 103-3666    | Asm, Cubby .....                       | 1    |
| 50   | 323-6       | Screw, Hex Cap 3/8 x 1 .....           | 8    |
| 51◆  | 103-8436    | Kit, ROPS LZ .....                     | 1    |
| 52   | 98-5975     | Washer, Spring Disk 3/8 .....          | 8    |
| 53   | 107-3155    | Cotter, Hair Pin Double Loop .....     | 2    |
| 54   | 32128-23    | Nut, Hex Flange Side Lock 1/2-13 ..... | 2    |
| 55   | 325-13      | Screw, 1/2-13 x 3 1/4.....             | 2    |
| 56▲  | 1-633872-03 | Stop, Seat .....                       | 2    |

Exmark black touch up spray paint - gloss black.

\* Not illustrated.

■ Includes ROPS fold pin plus hairpin, item #53.

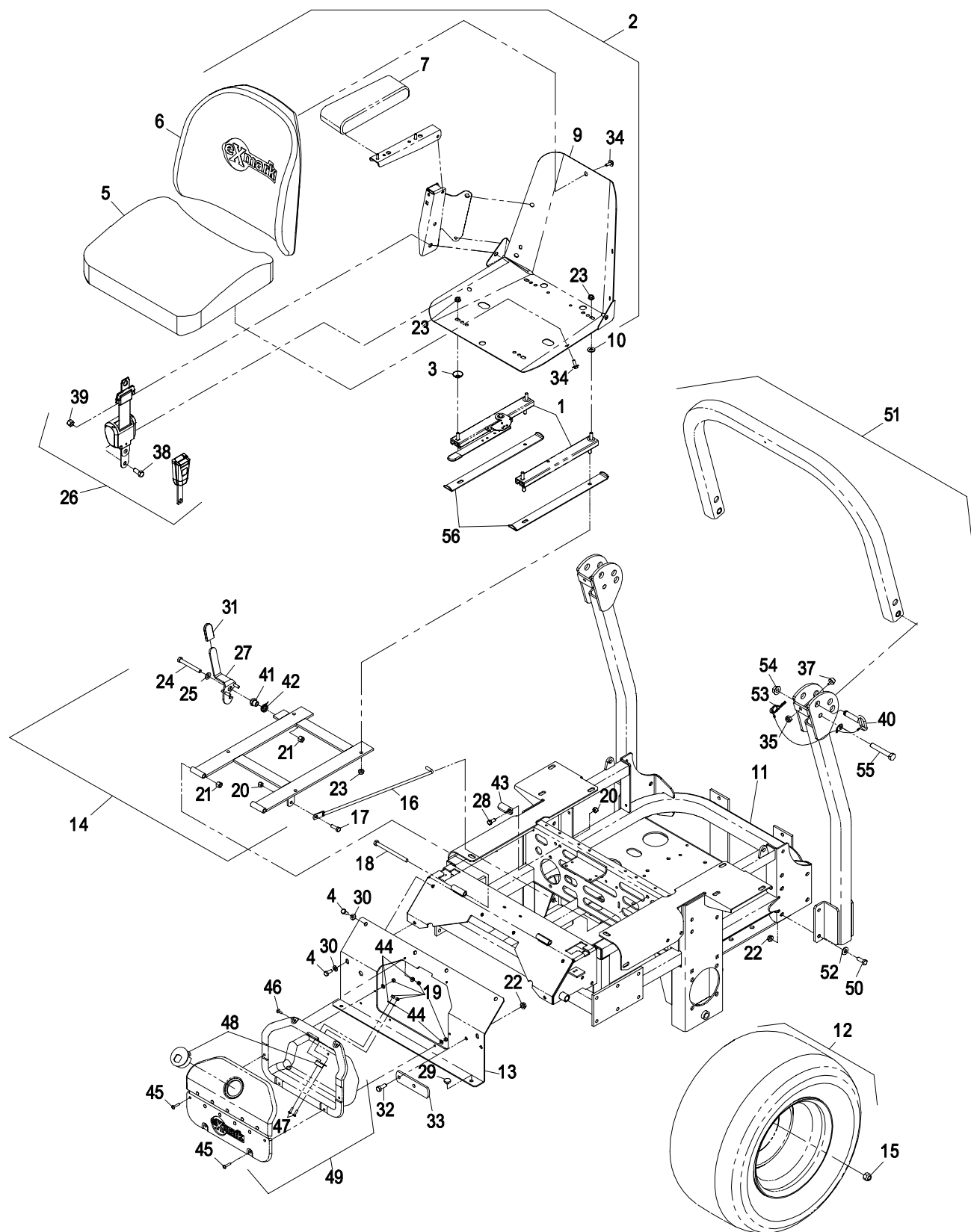
◆ Rollover protection frame is serviced as a complete assembly only. Includes complete ROPS frame, mounting hardware, fold pivot and locking hardware, seat frame assembly item #14, catch item #43, and seat belt assembly item #26.

● Includes armrests and seat back decal. Does not include seat belt or tracks.

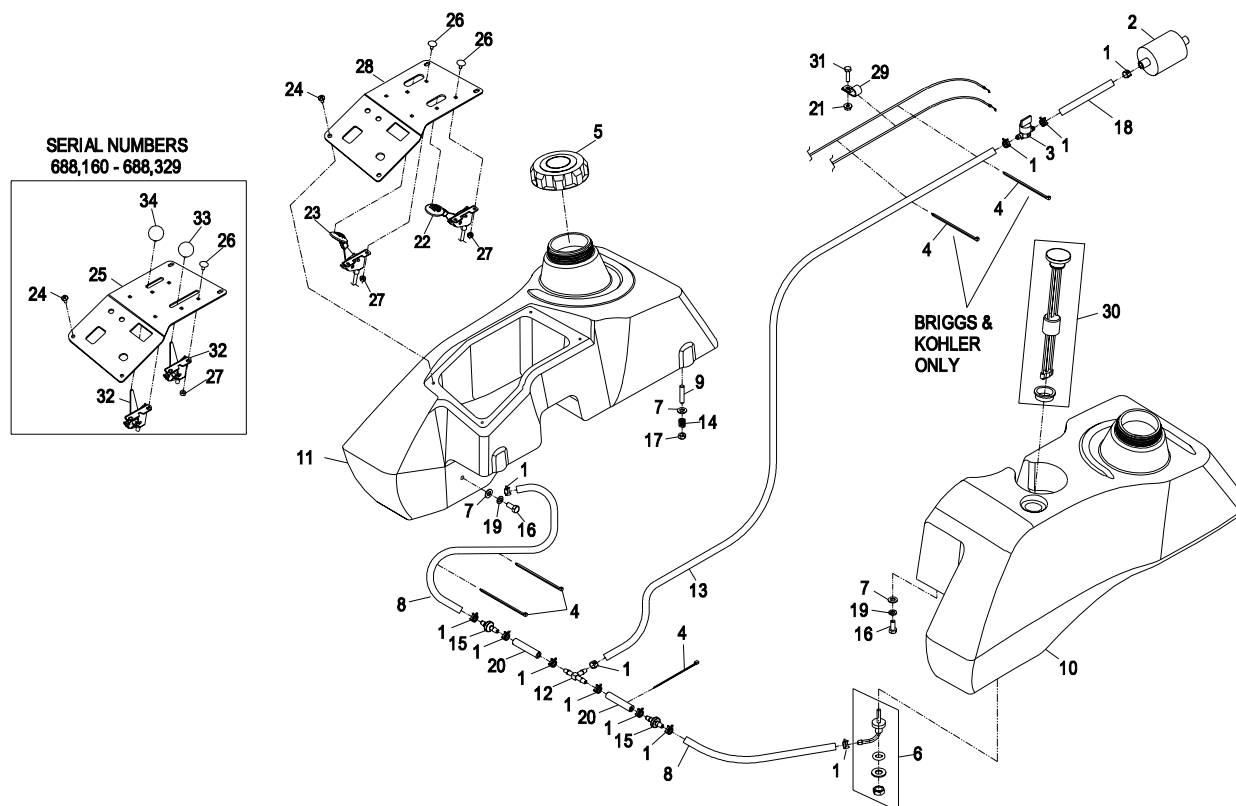
⊕ For all units except units with a 31HP Briggs & Stratton engine.

▲ For units with a 31 HP Briggs & Stratton engine.

# MAINFRAME GROUP



## FUEL GROUP – ALL UNITS EXCEPT 28HP KOHLER EFI

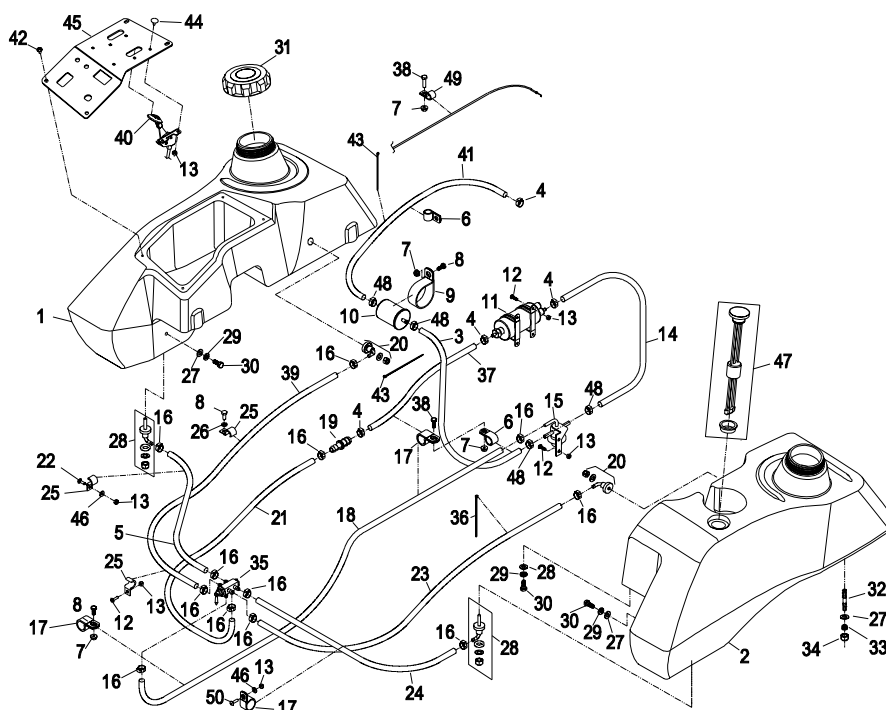


| Item | Part No.                   | Description                           | Qty. |
|------|----------------------------|---------------------------------------|------|
| 1    | 1-303077                   | Clamp, Fuel Line.....                 | 12   |
| 2+   | <b>Kohler</b>              | Part No. 2405010 Fuel Filter .....    | 1    |
|      | <b>Kawasaki</b>            | Part No. 49019-7001 Fuel Filter ..... | 1    |
|      | <b>Briggs&amp;Stratton</b> | Part No. 695327 Fuel Filter .....     | 1    |
| 3    | 1-603770                   | Valve, Fuel.....                      | 1    |
| 4    | 1-303335                   | Tie, Plastic Large .....              | 5    |
| 5    | 109-0346                   | Cap, Fuel Tank .....                  | 2    |
| 6●   | 103-2605                   | Fitting, Fuel Blkhd W/Screen .....    | 2    |
|      | 103-2784                   | O-Ring .....                          | 2    |
| 7    | 3256-23                    | Washer, 5/16 SAE.....                 | 10   |
| 8    | 108-4582                   | Hose, Fuel Line 21".....              | 2    |
| 9◆   | 1-633023                   | Stud, Fuel Tank.....                  | 6    |
| 10*  | 103-4924                   | Asm, Tank Fuel (LH).....              | 1    |
| 11*  | 109-0896                   | Asm, Tank Fuel (RH) .....             | 1    |
| 12   | 99-5005                    | Fitting, Barbed Tee.....              | 1    |
| 13   | 109-0281                   | Hose, Fuel Line 26".....              | 1    |
| 14   | 1-633349                   | Spring, Fuel Tank.....                | 6    |
| 15   | 99-5000                    | Valve, Fuel Check.....                | 2    |
| 16   | 322-3                      | Screw, 5/16-18 x 3/4 .....            | 4    |
| 17   | 3296-47                    | Nut, Thin Nyloc 5/16-18.....          | 6    |

| Item | Part No. | Description                                   | Qty. |
|------|----------|-----------------------------------------------|------|
| 18   | 109-0660 | Hose, Fuel Line 3 1/2" (Kohler & Briggs)..... | 1    |
|      | 109-0293 | Hose, Fuel Line 8 1/2" (Kawasaki) .....       | 1    |
| 19   | 1-805005 | Washer, Lock 5/16.....                        | 4    |
| 20   | 109-0304 | Hose, Fuel Line 2 1/2".....                   | 2    |
| 21   | 32128-33 | Nut, Whizlock 1/4-20.....                     | 1    |
| 22   | 109-3987 | Control, Throttle.....                        | 1    |
| 23   | 109-4210 | Control, Choke.....                           | 1    |
| 24■  | 109-2661 | Screw, PPH #10-24 x 1/2.....                  | 4    |
| 25▲  | 109-2388 | Asm, Panel W/Decals (Kawasaki).....           | 1    |
| 26   | 1-807513 | Bolt, Carriage #10-24 x 1/2 .....             | 4    |
| 27   | 3296-2   | Nut, Nyloc #10-24 .....                       | 4    |
| 28★  | 109-4510 | Asm, Panel W/Decals (Kohler & Kawasaki) .     | 1    |
| ★    | 109-4512 | Asm, Panel W/Decals (Briggs) .....            | 1    |
| 29   | 1-513762 | Clip, Loom (.50) .....                        | 1    |
| 30   | 103-6562 | Kit, Gauge Fuel.....                          | 1    |
| 31   | 321-6    | Screw, 1/4-20 x 1 .....                       | 1    |
| 32▲  | 103-4091 | Control, Throttle/Choke .....                 | 2    |
| 33▲  | 1-513592 | Knob, Red.....                                | 1    |
| 34▲  | 1-513593 | Knob, Black .....                             | 1    |

- ✚ Refer to Engine Owner's Manual (Fuel Filter **Must** be 15 Micron or smaller).
- Use Pro-lock, Nut type (Part No. 1-840022), .5ml tube on fuel fitting.
- ◆ Use Pro-lock, Retaining Type (Part No. 1-840023), .5cc tube on stud threads going into the tank.
- \* Includes: tank, cap, fitting & studs. LH tank also includes fuel gauge.
- Snug fit only on slotted holes, **Do Not Overtighten**, tank must be able to expand.
- ★ For all units except Serial Numbers 688,160 – 688,329.
- ▲ For units with Serial Numbers 688,160 – 688,329.

## FUEL GROUP – 28HP KOHLER EFI



| Item | Part No.      | Description                                 | Qty. |
|------|---------------|---------------------------------------------|------|
| 1*   | 109-0897      | Asm, Tank EFI Fuel (RH) .....               | 1    |
| 2*   | 103-4927      | Asm, Tank EFI Fuel (LH) .....               | 1    |
| 3    | 109-2070      | Kit, Fuel Line W/Clamps .....               | 1    |
| 4▲   | 1-643277      | Clamp, Fuel Line 5/16 .....                 | 4    |
| 5    | 109-0302      | Hose, Fuel Line 24" .....                   | 1    |
| 6    | 1-603727      | Clip, Loom .....                            | 2    |
| 7    | 32128-33      | Nut, Whizlock 1/4-20 .....                  | 4    |
| 8    | 321-3         | Screw, Cap 1/4 –20 x 5/8 .....              | 3    |
| 9    | 1-643241      | Clip, Loom .....                            | 1    |
| 10+  | <b>Kohler</b> | Part No. 24 050 03 Fuel Filter (Large) .... | 1    |
| 11+  | <b>Kohler</b> | Part No. 393 20 Fuel Pump .....             | 1    |
| 12   | 3290-500      | Screw, Machine #10-24x5/8 .....             | 7    |
| 13   | 3296-2        | Nut, Nyloc #10-24 .....                     | 11   |
| 14   | 109-2067      | Kit, Fuel Line W/Clamps .....               | 1    |
| 15+  | <b>Kohler</b> | Part No. 24 403 17 Fuel Regulator .....     | 1    |
| 16▲  | 1-643293      | Clamp, Fuel Line 1/4 .....                  | 12   |
| 17   | 1-643312      | Clip, Loom .....                            | 3    |
| 18   | 109-0285      | Hose, Fuel Line 42" .....                   | 1    |
| 19   | 103-2595      | Connector, 1/4x 5/16 .....                  | 1    |
| 20●  | 103-2615      | Fitting, Fuel Blkhd W/O Screen .....        | 2    |
|      | 103-2784      | O-Ring .....                                | 2    |
| 21   | 109-0293      | Hose, Fuel Line 8 1/2" .....                | 1    |
| 22   | 1-807533      | Bolt, Carriage #10-24 x 5/8 .....           | 1    |
| 23   | 109-0273      | Hose, Fuel Line 38 1/4" .....               | 1    |
| 24   | 109-0275      | Hose, Fuel Line 32" .....                   | 1    |
| 25   | 103-1193      | Clip, Loom Half .....                       | 3    |

| Item | Part No. | Description                                | Qty. |
|------|----------|--------------------------------------------|------|
| 26   | 1-805004 | Washer, Lock 1/4 .....                     | 1    |
| 27   | 3256-23  | Washer, Flat SAE 5/16 .....                | 10   |
| 28●  | 103-2605 | Fitting, Fuel Blkhd W/Screen .....         | 2    |
|      | 103-2784 | O-Ring .....                               | 2    |
| 29   | 1-805005 | Washer, Lock 5/16 Hvy .....                | 4    |
| 30   | 322-3    | Screw, 5/16-18 x 3/4 .....                 | 4    |
| 31   | 109-0346 | Cap, Fuel Tank .....                       | 2    |
| 32◆  | 1-633023 | Stud, Fuel Tank .....                      | 6    |
| 33   | 1-633349 | Spring, Fuel Tank .....                    | 6    |
| 34   | 3296-47  | Nut, Thin Nyloc 5/16-18 .....              | 6    |
| 35   | 1-643234 | Valve, Fuel Dual Flow .....                | 1    |
| 36   | 1-303287 | Plastic Tie (Small) .....                  | 1    |
| 37   | 109-0309 | Hose, Fuel Line 28" .....                  | 1    |
| 38   | 321-6    | Screw, 1/4-20 x 1 .....                    | 2    |
| 39   | 109-0286 | Hose, Fuel Line 35" .....                  | 1    |
| 40   | 109-3987 | Cable, Throttle .....                      | 1    |
| 41   | 109-2069 | Kit, Fuel Line W/Clamps .....              | 1    |
| 42■  | 109-2661 | Screw, PPH #10-24 x 1/2 .....              | 4    |
| 43   | 1-303335 | Plastic Tie .....                          | 2    |
| 44   | 1-807513 | Bolt, Carriage #10-24 x 1/2 .....          | 4    |
| 45   | 109-4510 | Asm, Control Panel W/Decals .....          | 1    |
| 46   | 3256-14  | Washer, Washer, #10 Std .....              | 2    |
| 47   | 103-6562 | Kit, Gauge Fuel .....                      | 1    |
| 48▲  | 103-6711 | Clamp, Fuel Line 14.5 Oetiker (Black) .... | 4    |
| 49   | 1-513762 | Clip, Loom .....                           | 1    |
| 50   | 1-803075 | Screw, Truss HD #10-24 x 3/4 .....         | 1    |

✚ Refer to Engine Owner's Manual (Fuel Filter **Must** be 40 Micron or smaller).

● Use Pro-lock, Nut type (Part No. 1-840022), .5ml tube on fuel fitting.

◆ Use Pro-lock, Retaining Type (Part No. 1-840023), .5cc tube on stud threads going into the tank.

\* Includes: tank, cap, fittings & studs. LH tank also includes fuel gauge.

▲ Clamps require special pliers Part No. 1-643394 (Oetiker Part No. 14100118 or Kohler Part No. 2445505) for installation.

■ Snug fit only on slotted holes, **Do Not Overtighten**, tank must be able to expand.

## PARK BRAKE GROUP

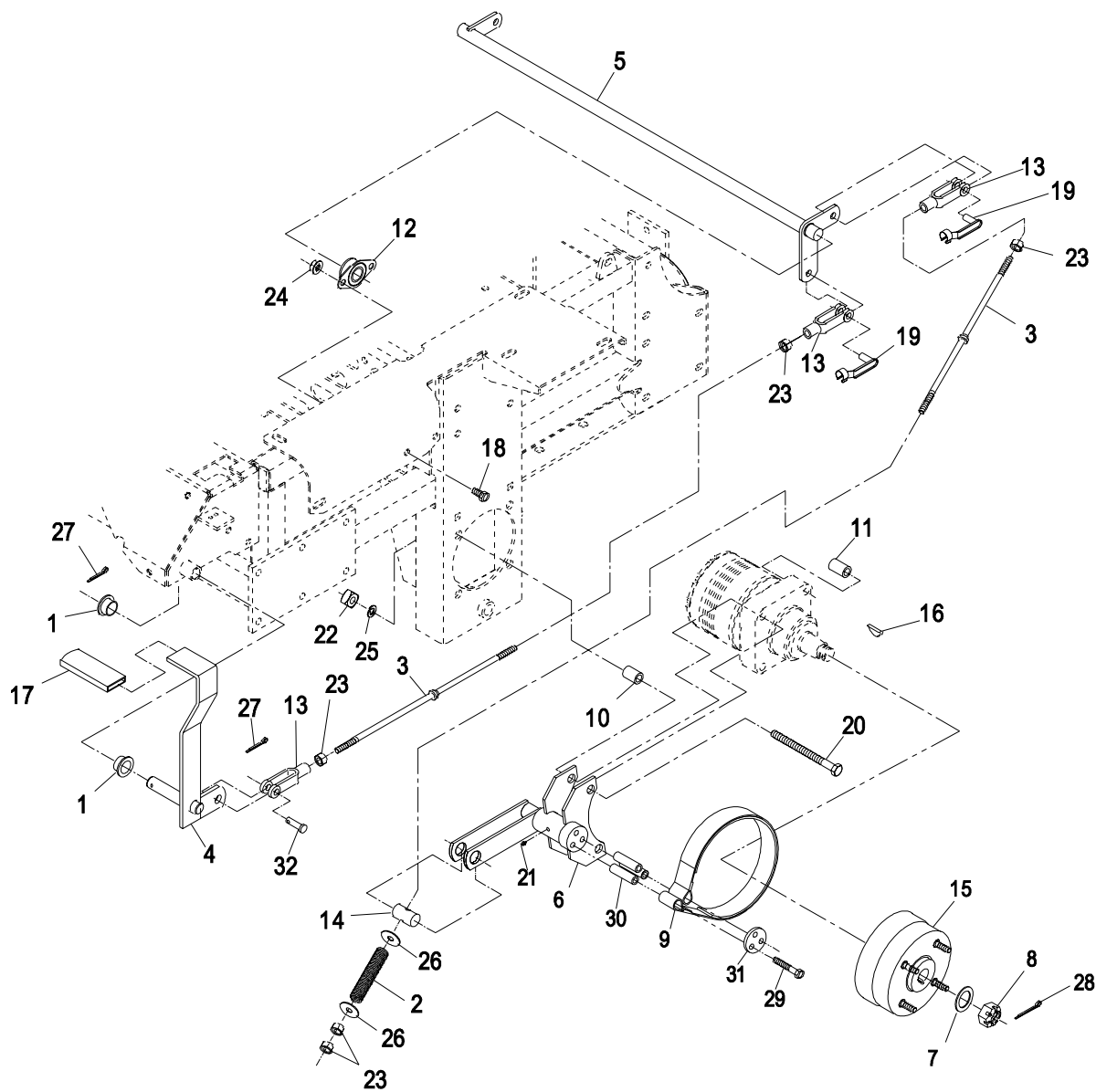
| Item | Part No.    | Description                     | Qty. |
|------|-------------|---------------------------------|------|
| 1    | 1-513140    | Bushing.....                    | 2    |
| 2    | 1-633454    | Spring, Brake Rod.....          | 2    |
| 3    | 1-633477    | Rod, Brake.....                 | 3    |
| 4    | 1-634500    | Lever (1-632489-03)W/Grip ..... | 1    |
| 5    | 1-632217-03 | Shaft, Brake.....               | 1    |
| 6    | 103-0352-03 | Bracket, Brake (60").....       | 2    |
|      | 103-0354-03 | Bracket, Brake (66" & 72")..... | 2    |
| 7    | 1-523157    | Washer, Spacer .....            | 2    |
| 8    | 1-809036    | Nut, Slotted 1.00-20 .....      | 2    |
| 9    | 103-9761    | Band, Brake.....                | 2    |
| 10   | 1-633380    | Spacer (Short)(60") .....       | 4    |
| *    | 109-5037    | Spacer (Short) (66" & 72")..... | 4    |
| 11   | 1-633382    | Spacer (Long)(60").....         | 4    |
| *    | 109-5038    | Spacer (Long)(66" & 72") .....  | 4    |
| 12   | 1-633102    | Bearing, Flange.....            | 2    |
| 13   | 1-633131    | Yoke .....                      | 4    |
| 14   | 1-633144    | Pin, Trunion .....              | 2    |
| 15   | 103-0590    | Hub & Drum W/Studs, Wheel.....  | 2    |
| *    | 1-633926    | Studs, Wheel .....              | 8    |

| Item | Part No. | Description                            | Qty. |
|------|----------|----------------------------------------|------|
| 16   | 3257-42  | Key, Woodruff 5/16 x 1 .....           | 2    |
| 17   | 1-633268 | Grip, Brake Lever.....                 | 1    |
| 18   | 323-4    | Screw, 3/8-16 x 3/4.....               | 4    |
| 19   | 103-2399 | Pin, Clevis Spring 3/8.....            | 3    |
| 20   | 325-17   | Screw, 1/2-13 x 4 (60") .....          | 8    |
|      | 325-20   | Screw, 1/2-13 x 6 (66" & 72") .....    | 8    |
| 21   | 1481     | Zerk, 1/4-28 45° .....                 | 2    |
| 22   | 103-0131 | Nut, Sq. Reg. 1/2-13 UNC-2B (60")..... | 8    |
|      | 32128-49 | Nut, Whizlock 1/2-13 (66" & 72").....  | 8    |
| 23   | 3219-3   | Nut, 3/8-24.....                       | 8    |
| 24   | 3290-357 | Nut, Whizlock 3/8-16.....              | 4    |
| 25   | 3253-7   | Washer, Lock 1/2.....                  | 8    |
| 26   | 3256-4   | Washer, 3/8 Std.....                   | 4    |
| 27   | 3272-10  | Pin, Cotter 1/8 x 3/4 .....            | 2    |
| 28   | 1-806800 | Pin, Cotter 9/64 x 1 1/2 .....         | 2    |
| 29   | 322-9    | Screw, 5/16-18 x 1 3/4.....            | 6    |
| 30   | 103-0384 | Spacer .....                           | 6    |
| 31   | 103-0374 | Retainer, Brake Band.....              | 2    |
| 32   | 1-808285 | Pin, Clevis 3/8 x 1 1/8 .....          | 1    |

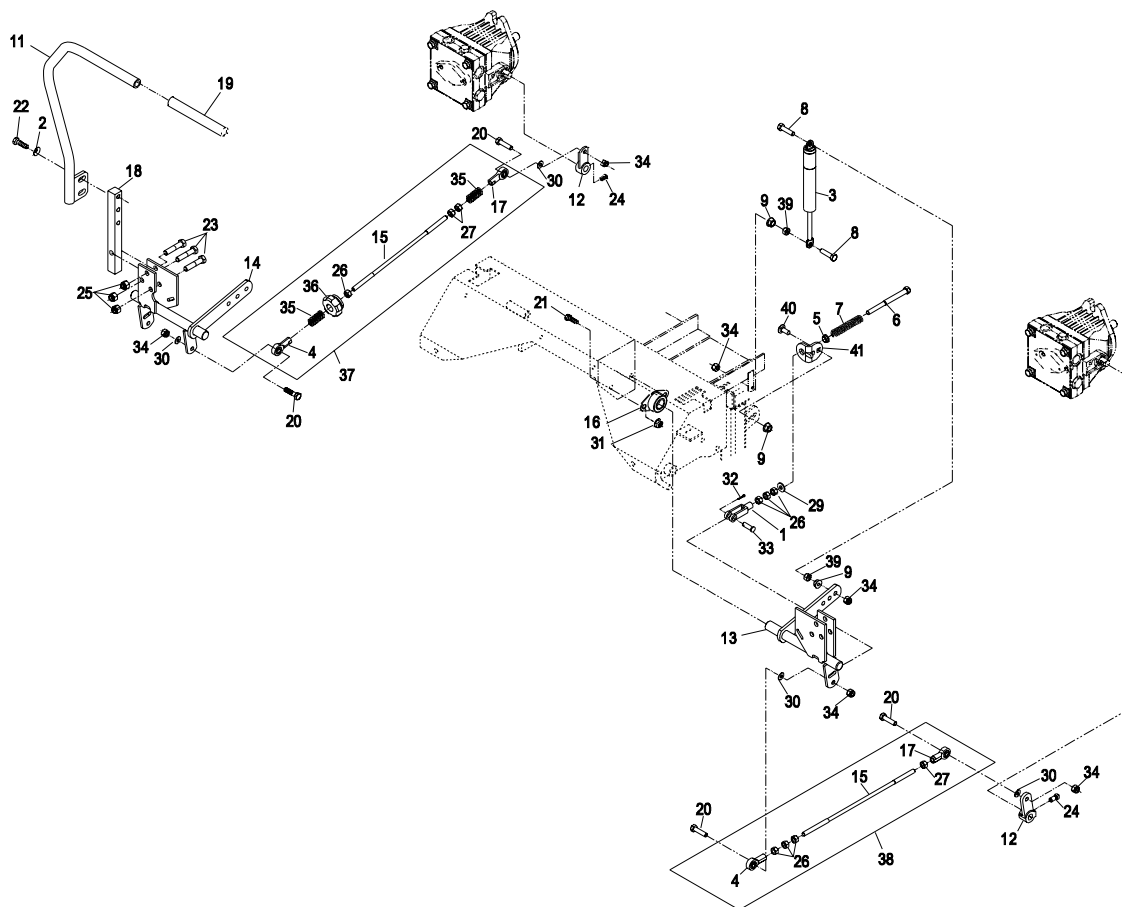
Exmark black touch up spray paint - gloss black.

\* Not Illustrated.

# PARK BRAKE GROUP



# MOTION CONTROL GROUP ALL UNITS EXCEPT 31HP BRIGGS & STRATTON



| Item | Part No. | Description                            | Qty. |
|------|----------|----------------------------------------|------|
| 1    | 1-303105 | Yoke .....                             | 2    |
| 2    | 98-5975  | Washer, Disc Spring 3/8.....           | 4    |
| 3    | 109-2339 | Damper .....                           | 2    |
| 4    | 1-543017 | Ball Joint (RH).....                   | 2    |
| 5    | 1-603735 | Bushing, Nylon (Reverse Ind).....      | 2    |
| 6    | 1-603737 | Bolt, (Neutral Return) .....           | 2    |
| 7    | 1-603807 | Spring, (Neutral Return).....          | 2    |
| 8    | 1-403180 | Screw, 5/16-18x1 3/8 Sp.....           | 4    |
| 9    | 32128-20 | Nut, Whizlock 5/16-18 .....            | 6    |
| 10*  | 103-3457 | Handle (103-3326-03) W/Grip (LH) ..... | 1    |
| 11   | 103-3458 | Handle (103-3327-03) W/Grip (RH).....  | 1    |
| 12   | 1-632208 | Arm, Pump Control.....                 | 2    |
| 13   | 109-3902 | Bracket, Motion Control (LH).....      | 1    |
| 14   | 109-3901 | Bracket, Motion Control (RH) .....     | 1    |
| 15   | 103-3064 | Link, Tracking Rod .....               | 2    |
| 16   | 1-633102 | Bearing, Flanged.....                  | 4    |
| 17   | 1-633152 | Ball Joint (LH) .....                  | 2    |
| 18   | 103-0407 | Arm, Control Shaft.....                | 2    |
| 19   | 103-3456 | Grip, Motion Control Handle .....      | 2    |
| 20   | 322-6    | Screw, 5/16-18 x 1 1/4 .....           | 4    |
| 21   | 323-4    | Screw, 3/8-16 x 3/4 .....              | 8    |

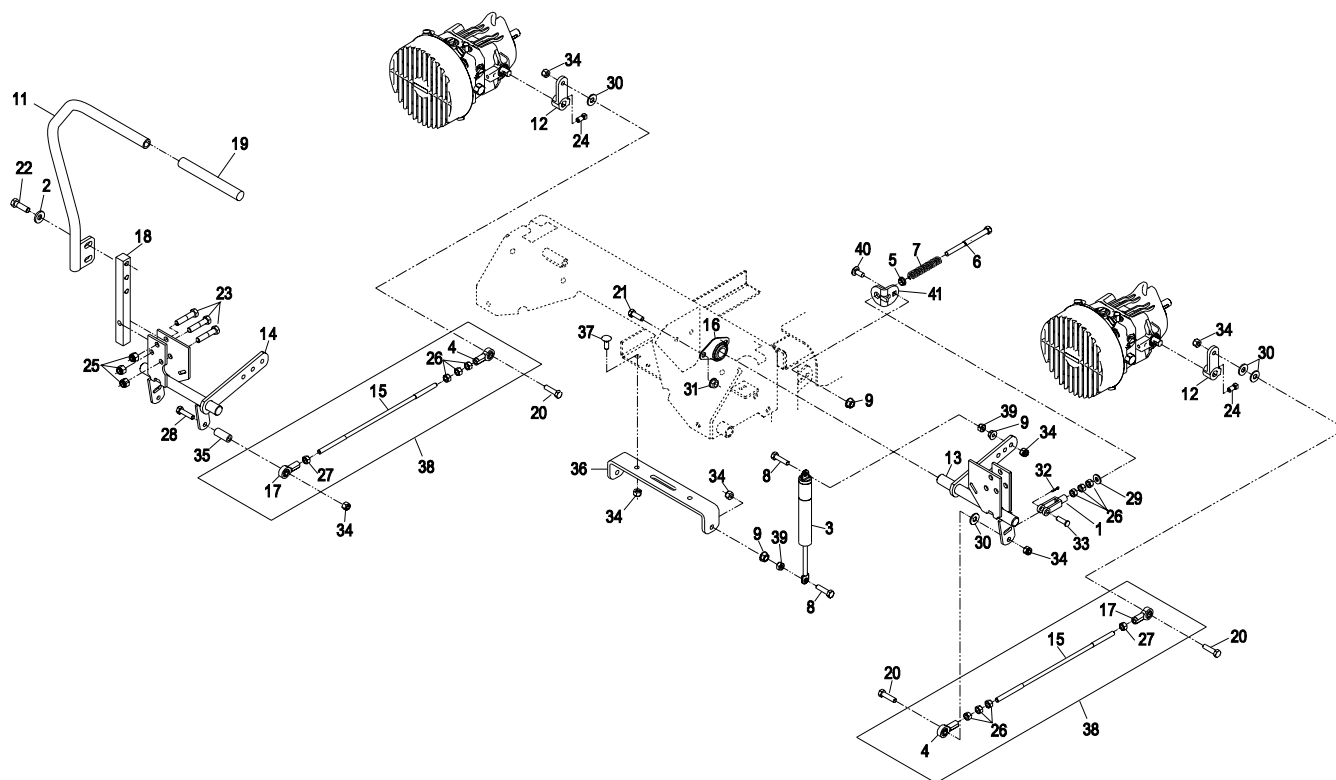
| Item | Part No. | Description                                    | Qty. |
|------|----------|------------------------------------------------|------|
| 22   | 323-7    | Screw, 3/8-16 x 1 1/4 .....                    | 4    |
| 23   | 323-9    | Screw, 3/8-16 x 1 3/4 .....                    | 6    |
| 24+  | 1-803022 | Set Screw, 5/16 x 5/8.....                     | 2    |
| 25   | 3296-39  | Nut, Nyloc 3/8-16 .....                        | 6    |
| 26   | 3219-2   | Nut, 5/16-24 .....                             | 8    |
| 27   | 1-804524 | Nut, 5/16-24 (LH) .....                        | 3    |
| 28   | 3220-2   | Nut, Jam 5/16-24 .....                         | 2    |
| 29   | 3256-2   | Washer, 1/4 .....                              | 2    |
| 30   | 3256-3   | Washer, 5/16 Std .....                         | 4    |
| 31   | 3290-357 | Nut, Whizlock 3/8-16.....                      | 8    |
| 32   | 3272-5   | Pin, Cotter 3/32 x 1/2 .....                   | 2    |
| 33   | 1-808280 | Pin, Clevis 5/16 x 1 .....                     | 2    |
| 34   | 3296-29  | Nut, Nyloc 5/16-18 .....                       | 8    |
| 35   | 1-323245 | Spring, Compression .....                      | 2    |
| 36   | 103-3060 | Knob, Tracking.....                            | 1    |
| 37   | 103-4330 | Asm, Tracking Rod .....                        | 1    |
| 38   | 103-4331 | Asm, Tracking Rod .....                        | 1    |
| 39   | 3217-6   | Nut, Hex 5/16-18.....                          | 4    |
| 40   | 3230-23  | Bolt, Carriage 5/16-18 x 3/4, short neck ..... | 2    |
| 41   | 109-3908 | Tab, Adjustment.....                           | 2    |

Exmark black touch up spray paint - gloss black.

\* Not Illustrated.

+ Use Pro-lock, Nut type (Part No. 1-840022), .5ml tube on setscrews.

## MOTION CONTROL GROUP – 31HP BRIGGS & STRATTON



| Item | Part No. | Description                            | Qty. |
|------|----------|----------------------------------------|------|
| 1    | 1-303105 | Yoke .....                             | 2    |
| 2    | 98-5975  | Washer, Disc Spring 3/8.....           | 4    |
| 3    | 109-2339 | Damper .....                           | 2    |
| 4    | 1-543017 | Ball Joint (RH).....                   | 2    |
| 5    | 109-3769 | Bushing, Nylon (Reverse Ind).....      | 2    |
| 6    | 1-603737 | Bolt, (Neutral Return) .....           | 2    |
| 7    | 1-603807 | Spring, (Neutral Return) .....         | 2    |
| 8    | 1-403180 | Screw, 5/16-18x1 3/8 Sp.....           | 4    |
| 9    | 32128-20 | Nut, Whizlock 5/16-18 .....            | 6    |
| 10*  | 103-3457 | Handle (103-3326-03) W/Grip (LH) ..... | 1    |
| 11   | 103-3458 | Handle (103-3327-03) W/Grip (RH).....  | 1    |
| 12   | 1-632208 | Arm, Pump Control.....                 | 2    |
| 13   | 109-3902 | Bracket, Motion Control (LH).....      | 1    |
| 14   | 109-3901 | Bracket, Motion Control (RH) .....     | 1    |
| 15   | 103-3064 | Link, Tracking Rod .....               | 2    |
| 16   | 1-633102 | Bearing, Flanged.....                  | 4    |
| 17   | 1-633152 | Ball Joint (LH) .....                  | 2    |
| 18   | 103-0407 | Arm, Control Shaft.....                | 2    |
| 19   | 103-3456 | Grip, Motion Control Handle.....       | 2    |
| 20   | 322-6    | Screw, 5/16-18 x 1 1/4 .....           | 3    |
| 21   | 323-4    | Screw, 3/8-16 x 3/4 .....              | 8    |

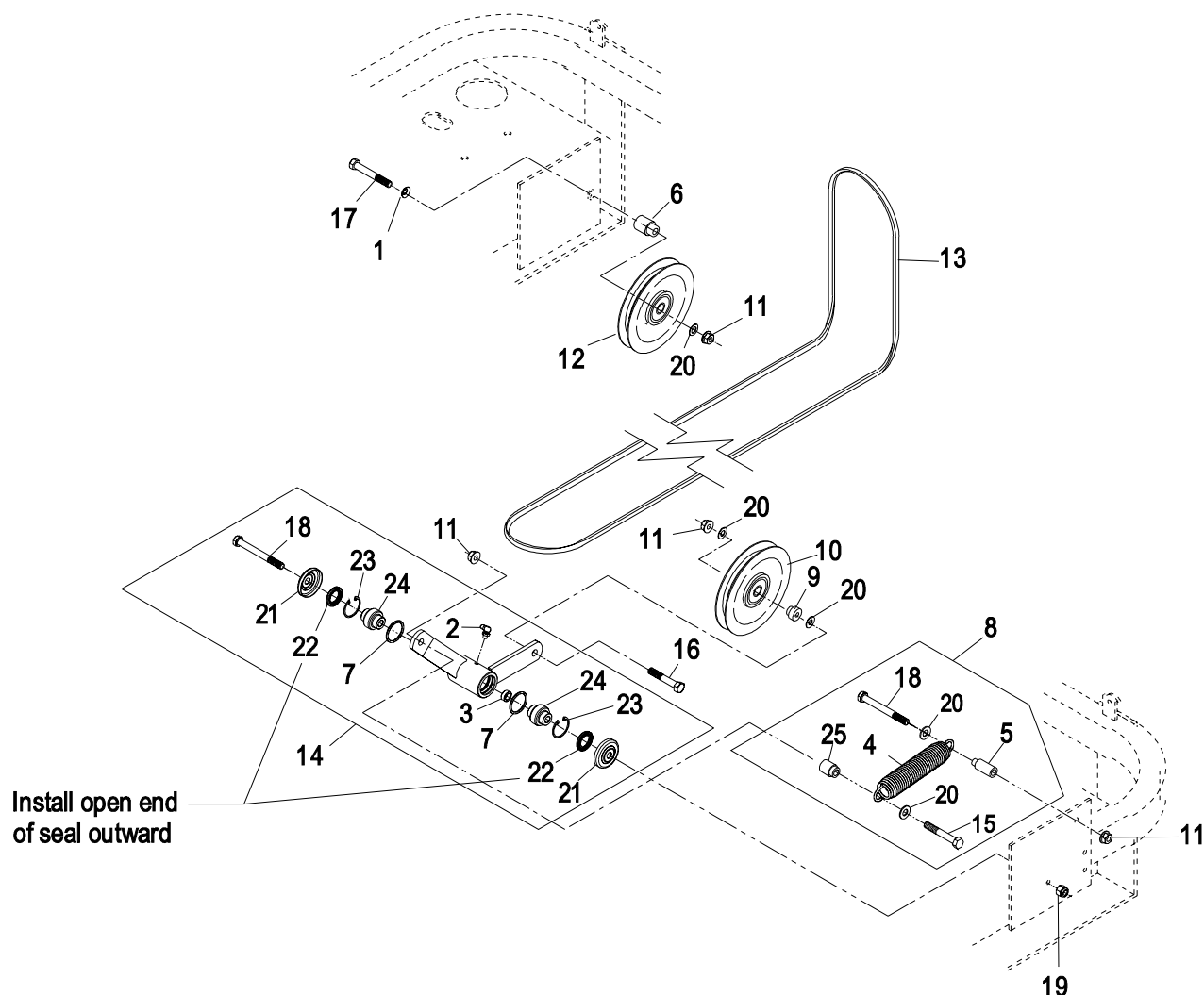
| Item | Part No.    | Description                              | Qty. |
|------|-------------|------------------------------------------|------|
| 22   | 323-7       | Screw, 3/8-16 x 1 1/4.....               | 4    |
| 23   | 323-9       | Screw, 3/8-16 x 1 3/4.....               | 6    |
| 24+  | 1-803022    | Set Screw, 5/16 x 5/8.....               | 2    |
| 25   | 3296-39     | Nut, Nyloc 3/8-16.....                   | 6    |
| 26   | 3219-2      | Nut, 5/16-24.....                        | 12   |
| 27   | 1-804524    | Nut, 5/16-24 (LH).....                   | 2    |
| 28   | 322-12      | Screw, HH 5/16-18 x 2 1/2.....           | 1    |
| 29   | 3256-2      | Washer, 1/4 .....                        | 2    |
| 30   | 3256-3      | Washer, 5/16 Std.....                    | 4    |
| 31   | 3290-357    | Nut, Whizlock 3/8-16.....                | 8    |
| 32   | 3272-5      | Pin, Cotter 3/32 x 1/2 .....             | 2    |
| 33   | 1-808280    | Pin, Clevis 5/16 x 1.....                | 2    |
| 34   | 3296-29     | Nut, Nyloc 5/16-18 .....                 | 10   |
| 35   | 103-0384    | Spacer.....                              | 1    |
| 36   | 109-6058-03 | Bracket, Damper Mount.....               | 1    |
| 37   | 3230-16     | Bolt, Carriage 5/16-18 x 7/8.....        | 2    |
| 38   | 103-4331    | Asm, Tracking Rod .....                  | 2    |
| 39   | 3217-6      | Nut, Hex 5/16-18 .....                   | 4    |
| 40   | 3230-23     | Bolt, Carriage 5/16-18 x 3/4, short neck | 2    |
| 41   | 109-3908    | Tab, Adjustment .....                    | 2    |

Exmark black touch up spray paint - gloss black.

\* Not Illustrated.

+ Use Pro-lock, Nut type (Part No. 1-840022), .5ml tube on setscrews.

## ENGINE DECK GROUP – ALL UNITS



| Item | Part No. | Description                  | Qty. |
|------|----------|------------------------------|------|
| 1    | 98-5975  | Washer, Spring Disc 3/8..... | 1    |
| 2    | 302-40   | Zerk, 1/4-20 (90°).....      | 1    |
| 3    | 103-5677 | Spacer .....                 | 1    |
| 4    | 103-8599 | Spring .....                 | 1    |
| 5    | 109-3141 | Spacer, Spring Mount .....   | 1    |
| 6    | 103-2627 | Bushing, Idler.....          | 1    |
| 7    | 106-7159 | O-ring.....                  | 2    |
| 8■   | 109-3766 | Kit, Mule Idler Spring.....  | 1    |
| 9    | 1-603496 | Bushing, Idler.....          | 1    |
| 10   | 1-603805 | Pulley, Idler .....          | 1    |
| 11   | 3290-357 | Nut, Whizlock 3/8-16.....    | 4    |
| 12   | 1-633166 | Pulley, Idler .....          | 1    |
| 13   | 103-4014 | Belt, Mule Drive.....        | 1    |

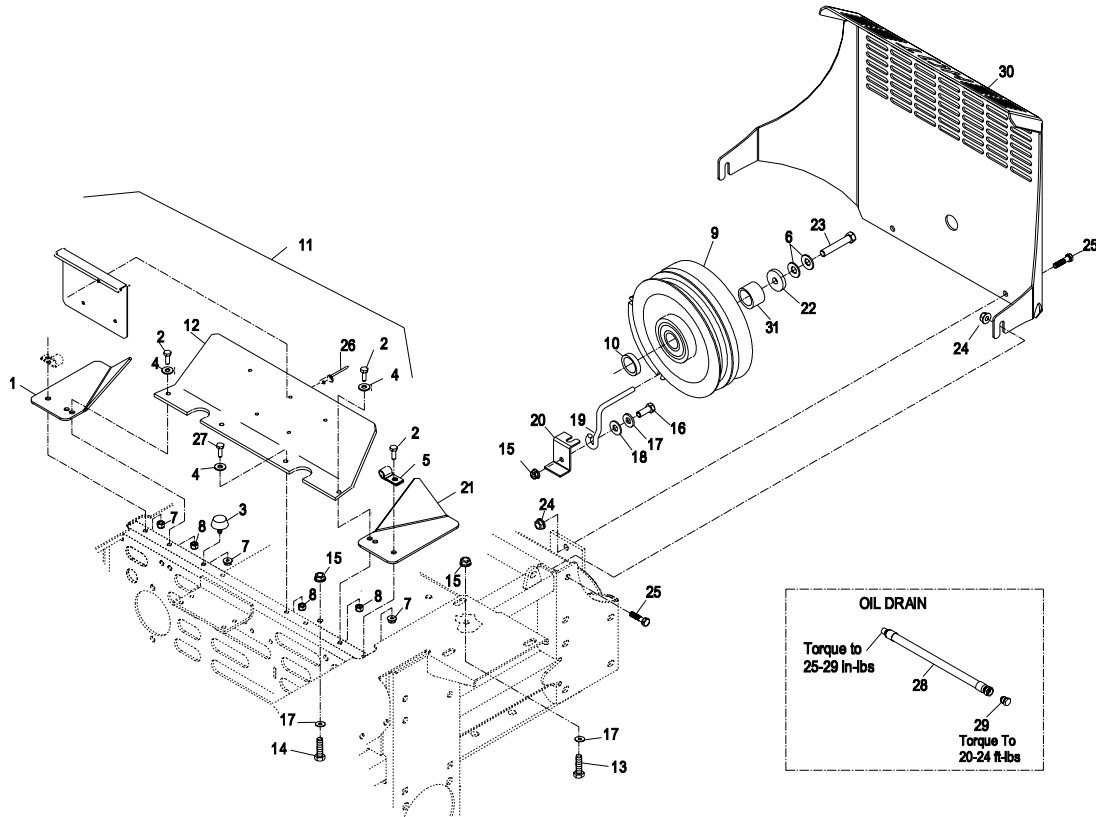
| Item | Part No. | Description                               | Qty. |
|------|----------|-------------------------------------------|------|
| 14✕  | 103-5695 | Kit, Idler Arm (103-4593-03) W/Brgs ..... | 1    |
| 15   | 323-10   | Screw, 3/8-16 x 2 .....                   | 1    |
| 16   | 323-9    | Screw, 3/8-16 x 1 3/4 .....               | 1    |
| 17   | 323-13   | Screw, 3/8-16 x 2 3/4 .....               | 1    |
| 18   | 1-800805 | Screw, 3/8-16 x 3 1/2 Gr8 .....           | 2    |
| 19   | 3296-39  | Nut, Nyloc 3/8.....                       | 1    |
| 20   | 3256-24  | Washer, 3/8 SAE .....                     | 5    |
| 21   | 103-2916 | Guard, Top .....                          | 2    |
| 22   | 103-3506 | Seal, Single Lip.....                     | 2    |
| 23   | 32120-10 | Ring, Retaining .....                     | 2    |
| 24   | 103-3504 | Bearing, Spherical .....                  | 2    |
| 25   | 1-633456 | Bushing, Idler.....                       | 1    |

Exmark black touch up spray paint - gloss black.

✕ Kit also includes item #19.

■ Kit includes items shown and (2) whizlock nuts item #11

## ENGINE DECK GROUP (cont.) 31 HP BRIGGS & STRATTON



| Item | Part No.    | Description                         | Qty. |
|------|-------------|-------------------------------------|------|
| 1    | 103-6619-03 | Support, Front Cover RH.....        | 1    |
| 2    | 321-6       | Screw 1/4-20 x 1 .....              | 4    |
| 3    | 109-2365    | Bumper, Rubber.....                 | 2    |
| 4    | 3256-2      | Washer, 1/4 STD .....               | 4    |
| 5    | 1-633396    | Clip, Loom .56.....                 | 1    |
| 6    | 1-603610    | Washer, 7/16 Spring Disc.....       | 2    |
| 7    | 32128-33    | Nut, Whizlock 1/4-20 .....          | 4    |
| 8    | 3296-42     | Nut, Nyloc 1/4-20 .....             | 6    |
| 9    | 103-3244    | Kit Clutch .....                    | 1    |
| 10   | 109-6874    | Spacer, Clutch .....                | 1    |
| 11   | 1-644276    | Asm, Shield W/Decals (Kohler) ..... | 1    |
| 12   | 103-1308    | Shield, Engine.....                 | 1    |
| 13   | 322-11      | Screw, 5/16-18 x 2 1/4 .....        | 1    |
| 14   | 322-10      | Screw, 5/16-18 x 2 .....            | 3    |
| 15   | 32128-20    | Nut, Whizlock 5/16-18 .....         | 5    |
| 16   | 322-7       | Screw, 5/16-18 x 1 1/2 .....        | 1    |

| Item | Part No.    | Description                    | Qty. |
|------|-------------|--------------------------------|------|
| 17   | 1-303334    | Washer, 5/16 Spring Disc ..... | 5    |
| 18   | 3256-3      | Washer, 5/16 STD .....         | 1    |
| 19   | 52-4780     | Rod, Belt.....                 | 1    |
| 20   | 109-6649    | Tab, Clutch Anchor .....       | 1    |
| 21   | 103-6620-03 | Support, Front Cover (LH)..... | 1    |
| 22   | 1-543610    | Washer.....                    | 1    |
| 23▲  | 3212-6      | Screw, 7/16-20 x 1 1/2 .....   | 1    |
| 24   | 33290-357   | Nut, Whizlock 3/18-16.....     | 4    |
| 25   | 323-6       | Screw, 3/8-16 x 1 .....        | 4    |
| 26   | 1-803035    | Rivet, 3/16 x 1/4 .....        | 5    |
| 27   | 321-4       | Screw, 1/4-20 x 3/4.....       | 2    |
| 28   | 109-4324    | Hose, Oil Drain w/Plug.....    | 1    |
| 29   | 109-1012    | Plug .....                     | 1    |
| 30   | 109-5499-03 | Guard, Muffler.....            | 1    |
| 31■  | 1-633179    | Spacer.....                    | 1    |

Exmark black touch up spray paint - gloss black.

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

■ For S/N 692,278 and Higher only.

### **Briggs & Stratton Replacement Parts List**

(Refer to Engine Owner's Manual)

| Description             | B & S Part |
|-------------------------|------------|
| Engine Oil Filter ..... | 492932     |
| Engine Air Filter ..... | 841497     |
| Safety Filter.....      | 821136     |

# ENGINE DECK GROUP (cont.)

## ALL UNITS EXCEPT 31 HP BRIGGS & STRATTON

| Item | Part No.    | Description                                     | Qty. |
|------|-------------|-------------------------------------------------|------|
| 1    | 1-643315    | Baffle, Engine Cooler<br>(27HP & 28HP EFI)..... | 1    |
| 2    | 1-805005    | Washer, Lock 5/16 Hvy .....                     | 4    |
| 3    | 109-2365    | Bumper, Rubber.....                             | 2    |
| 4    | 323-6       | Screw, 3/8-16 x 1 .....                         | 1    |
| 5    | 33014-00    | Nut, Hex M8 1.25.....                           | 4    |
| 6    | 1-603610    | Washer, Spring Disc .....                       | 2    |
| 7    | 1-633615-03 | Guard, Rear Engine .....                        | 1    |
| 8    | 3256-4      | Washer, 3/8 Std .....                           | 1    |
| 9    | 103-3245    | Clutch Kit (23HP) .....                         | 1    |
|      | 103-3246    | Clutch Kit (27HP) .....                         | 1    |
|      | 103-5835    | Clutch Kit (28HP EFI).....                      | 1    |
|      | 103-3244    | Clutch Kit (28HP Kawasaki) .....                | 1    |
|      | 103-3012    | Kit, Brake Pole Module.....                     | 1    |
| 10   | 1-633453    | Spacer (23HP) .....                             | 1    |
|      | 1-633179    | Spacer (27HP, 28HP EFI, 28HP Kawasaki) ..       | 1    |
| 11   | 1-644276    | Asm, Shield W/Decals (Kohler) .....             | 1    |
|      | 103-3341    | Asm, Shield W/Decals (Kawasaki) .....           | 1    |
| 12   | 103-1308    | Shield, Engine.....                             | 1    |
| 13   | 323-9       | Screw, 3/8-16 x 1 3/4 .....                     | 4    |
| 14   | 1-634796    | Shield (LH) – Subassy (Kohler).....             | 1    |
|      | 103-0241    | Shield (LH) – Subassy (Kawasaki) .....          | 1    |
| 15   | 1-633301    | Shield, Heat (Kohler).....                      | 2    |
|      | 103-0243    | Shield, Heat (Kawasaki).....                    | 2    |
| 16   | 321-4       | Screw, 1/4-20x 3/4 .....                        | 7    |
| 17   | 1-643313-03 | Shield, Muffler .....                           | 1    |
| 18   | 1-644316    | Shield (RH) – Subassy (Kohler) .....            | 1    |
|      | 103-0242    | Shield (RH) – Subassy (Kawasaki).....           | 1    |
| 19   | 1-523285    | Clip, Shield.....                               | 2    |
| 20   | 103-3535    | Kit, Cable Heat Shield (Kohler).....            | 1    |
| 21   | 52-4780     | Rod, Belt.....                                  | 1    |
| 22   | 321-6       | Screw, 1/4-20 x 1 .....                         | 4    |
| 23+  | 109-2987    | Asm, Oil Drain Tube W/Plug (Kohler) .....       | 1    |
| 24   | 323-6       | Screw, 3/8-16x1 (23HP & 27HP).....              | 6    |
|      | 323-6       | Screw, 3/8-16 x 1 (28HP EFI).....               | 7    |
| 25▲  | 3212-10     | Screw, 7/16-20 x 2 1/2 (Kohler).....            | 1    |
|      | 3212-6      | Screw, 7/16-20 x 1 1/2 (Kawasaki).....          | 1    |

| Item | Part No.    | Description                                       | Qty. |
|------|-------------|---------------------------------------------------|------|
| 26   | 1-803035    | Rivet, 3/16 x 1/4 (Kohler) .....                  | 11   |
|      | 1-803035    | Rivet, 3/16 x 1/4 (Kawasaki) .....                | 9    |
| 27   | 3296-42     | Nut, Nyloc 1/4-20 .....                           | 4    |
| 28   | 103-7454-03 | Bracket, Guard Top .....                          | 2    |
| 29   | 3256-2      | Washer, 1/4 Std .....                             | 4    |
| 30   | 103-1513    | Arrester, Spark (1.25) (28HP EFI).....            | 1    |
| 31   | 1-653291    | Gasket (Kohler).....                              | 2    |
| 32   | 3290-357    | Nut, Whizlock 3/8-16 (23HP & 27HP).....           | 14   |
|      | 3290-357    | Nut, Whizlock 3/8-16 (28HP EFI) .....             | 15   |
| 33   | 32128-33    | Nut, Whizlock 1/4-20.....                         | 9    |
| 34   | 1-633396    | Clip, Loom .56 .....                              | 1    |
| 35   | 1-809108    | Screw, Self Tapping 5/16-18x1.75<br>(Kohler)..... | 2    |
| 36   | 103-1514    | Clamp, Muffler (1.38) (28HP EFI).....             | 1    |
| 37   | 1-323236    | Spacer (Kohler).....                              | 2    |
| 38   | 3253-6      | Washer, Lock 7/16.....                            | 2    |
| 39   | 324-2       | Screw, 7/16-14x.75 G5 .....                       | 2    |
| 40   | 98-5975     | Washer, Spring Disc 3/8 .....                     | 5    |
| 41   | 3256-63     | Washer, 3/16 Std .....                            | 6    |
| 42   | 109-1012    | Plug, Oil Drain .....                             | 1    |
| 43*  | 103-7480    | Kit, Muffler Kohler (23HP & 27HP) .....           | 1    |
|      | * 103-7483  | Kit, Muffler Kohler (28HP EFI).....               | 1    |
| 44   | 9266934     | Screw, 5/16-18x.5 (Kohler) .....                  | 2    |
| 45   | 109-4490    | Asm, Oil Drain Tube W/Plug (Kawasaki) ..          | 1    |
| 46   | 103-0152    | Keeper, Clutch (Kawasaki).....                    | 1    |
| 47   | 322-2       | Screw, HH 5/16-18 x 5/8 (Kawasaki).....           | 4    |
| 48   | 3256-23     | Washer, 5/16 SAE (Kawasaki).....                  | 4    |
| 49   | 33104-025   | Screw HH M8-1.25 x 25mm (Kawasaki). 2             |      |
| 50   | 42-9850     | Washer, Lock M8 (Kawasaki) .....                  | 2    |
| 51   | 33004-00    | Nut, Hex M8-1.25 (Kawasaki) .....                 | 2    |
| 52   | 32128-20    | Nut, Whizlock 5/16-18 (Kawasaki) .....            | 4    |
| 53   | 112-8347-03 | Bracket, Muffler Mount (Kawasaki) .....           | 1    |
| 54   | 112-8346-03 | Guard, Muffler (Kawasaki) .....                   | 1    |
| 55   | 112-8348-03 | Bracket Muffler Support (Kawasaki) .....          | 1    |

Exmark black touch up spray paint - gloss black.

+ Use a Teflon Pipe Sealant or equivalent on threads.

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

\* Includes items #20, #30, #31, #35, #36, & #44.

✖ Includes items #20, #31, #35, & 44.

### Kohler Replacement Parts List

(Refer to Engine Owner's Manual)

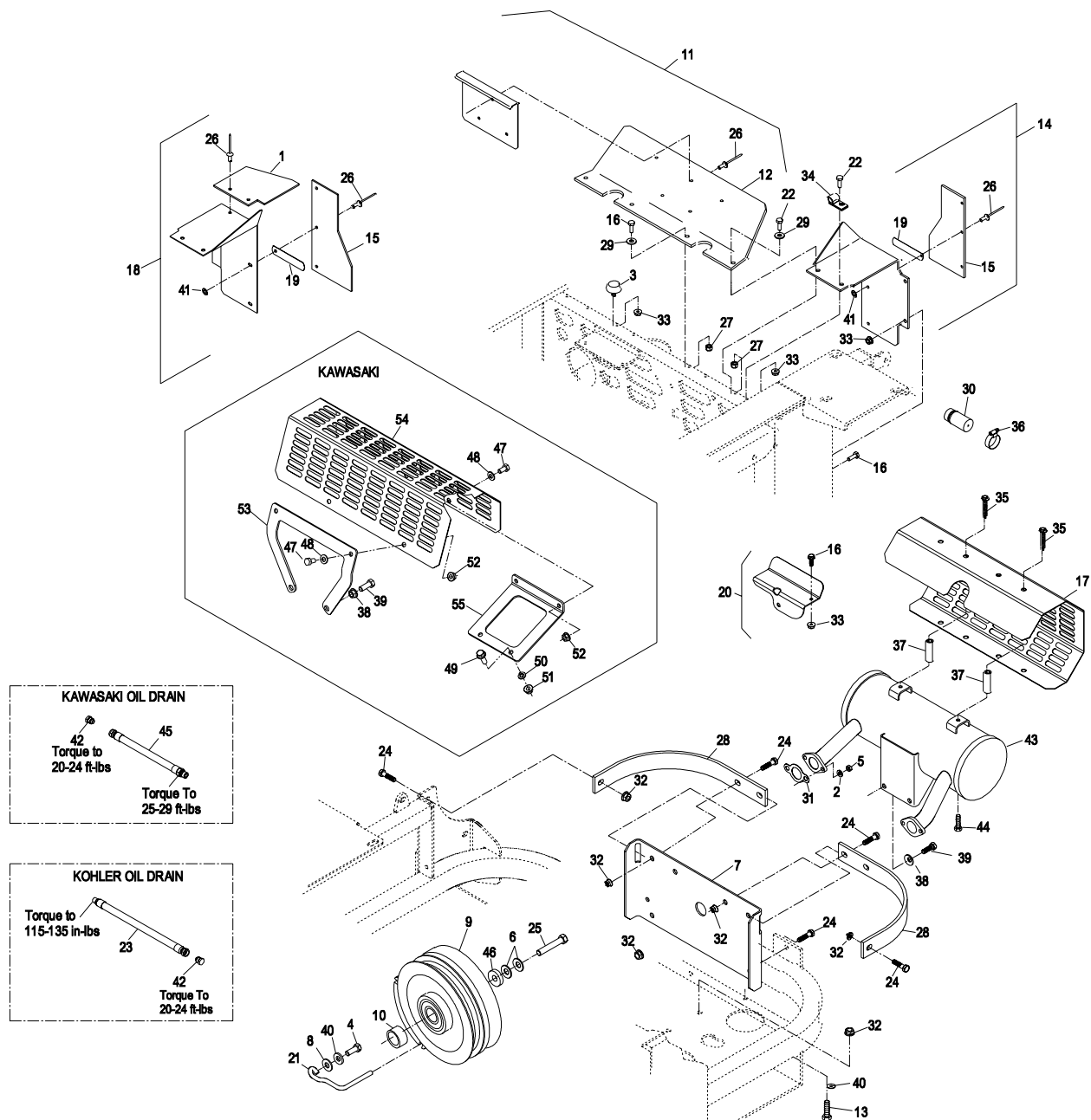
| Description             | Kohler Part |
|-------------------------|-------------|
| Engine Oil Filter ..... | 5205002     |
| Engine Air Filter ..... | 2508301     |
| Safety Filter.....      | 2508304     |

### Kawasaki Replacement Parts List

(Refer to Engine Owner's Manual)

| Description             | Kawasaki Part |
|-------------------------|---------------|
| Engine Oil Filter ..... | 49065-2078    |
| Engine Air Filter.....  | 11013-7020    |
| Safety Filter .....     | 11013-7019    |

# ENGINE DECK GROUP (cont.) ALL UNITS EXCEPT 31HP BRIGGS & STRATTON



# HYDRAULIC GROUP

## ALL UNITS EXCEPT 31HP BRIGGS & STRATTON

| Item | Part No. | Description                                | Qty. |
|------|----------|--------------------------------------------|------|
| 1    | 103-1947 | Asm, Reservoir W/Decal .....               | 1    |
| 2    | 103-7615 | Asm Cap W/Gasket.....                      | 1    |
| 3    | 103-1949 | Gasket, Reservoir Cap.....                 | 1    |
| 4    | 104-7836 | Head, Filter .....                         | 1    |
| 5    | 109-4180 | Element, Hydraulic Oil Filter.....         | 1    |
| ▲    | 1-523541 | Element, Hydraulic Filter (Winter).....    | 1    |
| 6    | 103-1988 | Clamp, Hose (11/16).....                   | 2    |
| 7    | 103-1716 | Clamp, Hose (17/32).....                   | 3    |
| 8    | 109-1936 | Asm, Hose Hydraulic.....                   | 1    |
|      | 1-603921 | Boss O-Ring .....                          | 1    |
| 9    | 32120-10 | Ring, Retaining .....                      | 2    |
| 10   | 103-1808 | Hose, Hydraulic.....                       | 1    |
| 11   | 103-1806 | Asm, Case Drain Hose.....                  | 1    |
| 12   | 103-1807 | Elbow, 45°.....                            | 1    |
|      | 1-603921 | Boss O-Ring .....                          | 1    |
| 13   | 103-3506 | Seal, Single Lip.....                      | 2    |
| 14   | 103-1801 | Adapter, Straight.....                     | 1    |
|      | 1-603921 | Boss O-Ring .....                          | 1    |
| 15   | 103-1912 | Adapter, Straight.....                     | 1    |
|      | 1-603921 | Boss O-Ring .....                          | 1    |
| 16   | 103-1799 | Elbow, 90°.....                            | 2    |
|      | 1-603921 | Boss O-Ring .....                          | 1    |
| 17   | 321-3    | Screw, 1/4-20 x 5/8 .....                  | 2    |
| 18   | 1-805004 | Lockwasher, 1/4.....                       | 2    |
| 19   | 103-1802 | Elbow, 90°.....                            | 2    |
|      | 1-603921 | Boss O-Ring .....                          | 1    |
| 20   | 103-7262 | Pump, Hydraulic.....                       | 2    |
|      | 103-7441 | Kit, Input Bearing .....                   | 1    |
|      | 103-8448 | Kit, Thrust Bearing .....                  | 1    |
|      | 103-7443 | Kit, Cylinder Block.....                   | 1    |
|      | 105-6184 | Kit, Overhaul Seal .....                   | 1    |
|      | 103-2741 | Kit, Shock Value.....                      | 1    |
| 21   | 1-603990 | Connector, Straight.....                   | 4    |
|      | 1-603920 | O-Ring (SAE #8).....                       | 1    |
|      | 1-603992 | O-Ring (37° Flare #8).....                 | 1    |
| 22   | 103-6988 | Motor, Wheel Drive (TL Style).....         | 2    |
|      | 103-6996 | Kit, Output Shaft & Seals (TL Style) ..... | 1    |
|      | 1-523328 | Motor, Wheel (TF Style).....               | 2    |
|      | 103-6995 | Kit, Output Shaft & Seals (TF Style) ..... | 1    |
|      | 103-6994 | Kit, Seal (TL & TF Style).....             | 1    |
| 23   | 103-3733 | Hose, Upper LH (60").....                  | 1    |
|      | 103-3734 | Hose, Upper (66" & 72" Option 1).....      | 2    |
|      | 109-2962 | Hose, Upper (66" & 72" Option 2).....      | 1    |

| Item | Part No. | Description                                           | Qty. |
|------|----------|-------------------------------------------------------|------|
| 24   | 103-3735 | Hose, Lower LH (60").....                             | 1    |
|      | 103-1863 | Hose, Lower (66" & 72" Option 1) .....                | 2    |
|      | 109-2963 | Hose, Lower (66" & 72" Option 2) .....                | 1    |
| 25   | 103-3736 | Hose, Upper RH (60").....                             | 1    |
|      | 109-2964 | Hose, Upper (66" & 72" Option 2) .....                | 1    |
| 26   | 103-3737 | Hose, Lower RH (60").....                             | 1    |
|      | 109-2961 | Hose, Lower (66" & 72" Option 2) .....                | 1    |
| 27   | 103-6907 | Sheave, Pump .....                                    | 2    |
| 28+  | 1-803022 | Setscrew, Sq Hd 5/16-18 x 5/8.....                    | 2    |
| 29+  | 30-1710  | Setscrew, Sq Hd Cup 5/16-18 x 1 .....                 | 2    |
| 30+  | 1-803050 | Setscrew, Sq Hd Cup 5/16-18 x 3/4 .....               | 2    |
| 31   | 5-1077   | Key, Machine 3/16 SQ x 1 .....                        | 2    |
| 32   | 1-603991 | Adapter, Straight<br>(60" & (66"&72" Option 2)) ..... | 4    |
|      | 1-603919 | Boss O-Ring .....                                     | 1    |
|      | 1-603992 | Flare O-Ring .....                                    | 1    |
|      | 1-633786 | Elbow, 90° Long (66" & 72" Option 1).....             | 4    |
|      | 1-603919 | Boss O-Ring .....                                     | 1    |
|      | 1-603992 | Flare O-Ring .....                                    | 1    |
| 33   | 109-4076 | Idler Flat W/Hub.....                                 | 1    |
| 34   | 103-5694 | Kit, Idler Arm (103-4595-03)<br>W/Bearings .....      | 1    |
| 35   | 323-9    | Screw, HH 3/8-16 x 1 3/4.....                         | 1    |
| 36   | 3256-3   | Washer, Flat Std 5/16 .....                           | 1    |
| 37   | 3290-357 | Nut, Whizlock 3/8-16.....                             | 8    |
| 38   | 103-5677 | Spacer .....                                          | 1    |
| 39   | 32128-33 | Nut, Whizlock 1/4-20.....                             | 2    |
| 40   | 1-633567 | Sheave, Engine .....                                  | 1    |
| 41   | 103-6906 | Belt, Pump Drive.....                                 | 1    |
| 42   | 323-8    | Screw, 3/8-16 x 1 1/2 .....                           | 1    |
| 43   | 1-800805 | Screw, 3/8-16 x 3 1/2 Gr8 .....                       | 1    |
| 44   | 323-7    | Screw, 3/8-16 x 1 1/4 .....                           | 4    |
| 45   | 106-7159 | O-ring .....                                          | 2    |
| 46   | 13-2840  | Key, 1/4 x 1/4 x 1 1/4 .....                          | 1    |
| 47   | 302-40   | Zerk, 90° 1/4-28.....                                 | 1    |
| 48   | 103-3504 | Bearing, Spherical .....                              | 2    |
| 49   | 103-3330 | Spring, Extension.....                                | 1    |
| 50   | 321-6    | Screw, HH 1/4-20 x 1.....                             | 2    |
| 51   | 3256-22  | Washer, SAE 1/4 .....                                 | 2    |
| 52   | 103-2916 | Guard, Top .....                                      | 2    |

Exmark black touch up spray paint - gloss black.

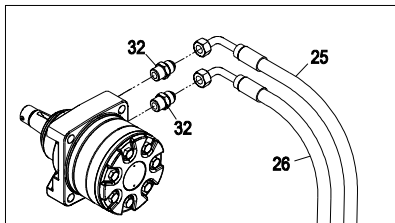
✚ Use Pro-Lock, Nut Type (P/N 1-840022, 5 ml tube) on setscrews.

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

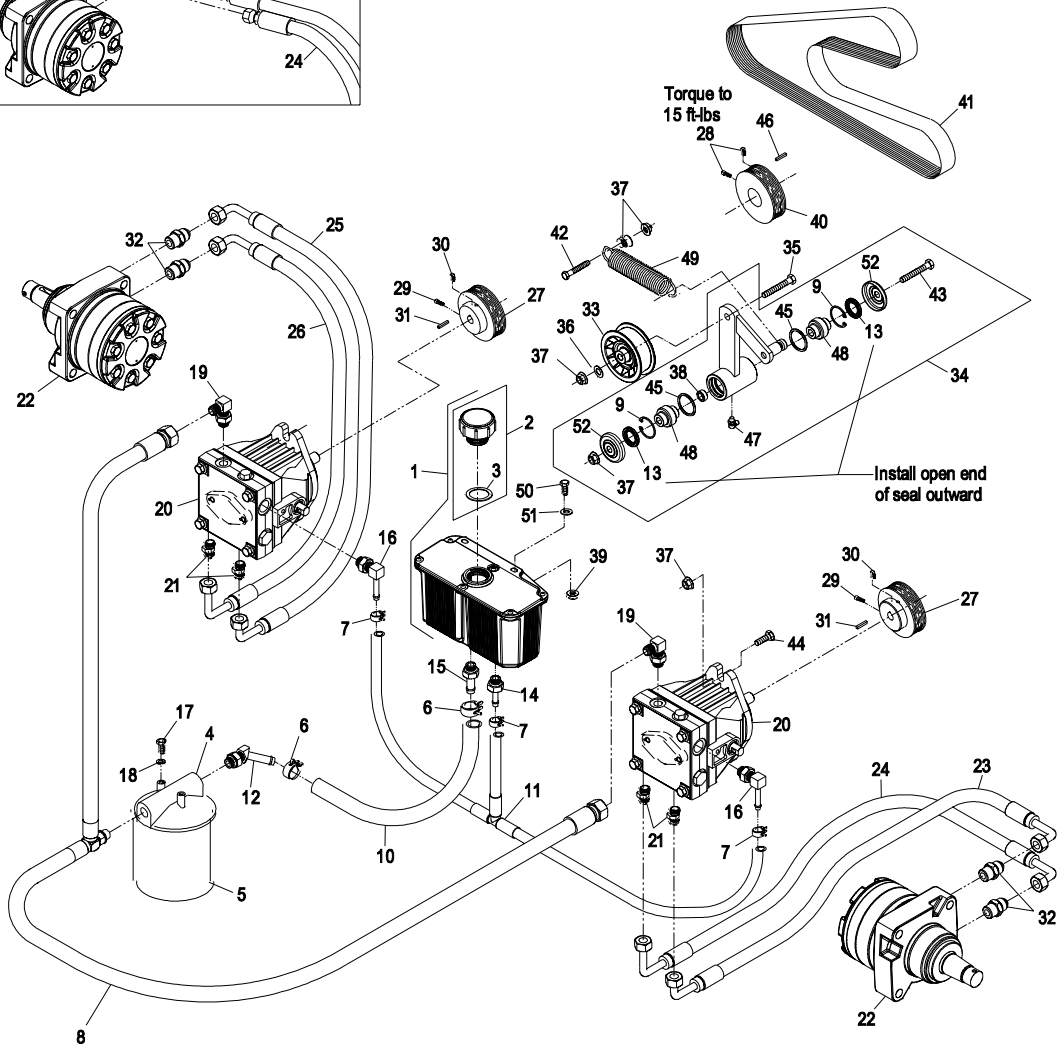
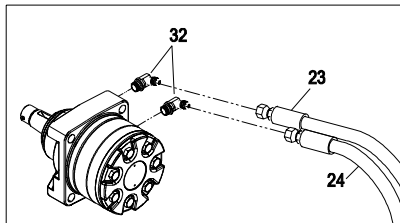
✚ Check the serial number on the front of the wheel motor to determine the style.

HYDRAULIC GROUP  
ALL UNITS EXCEPT 31HP BRIGGS & STRATTON

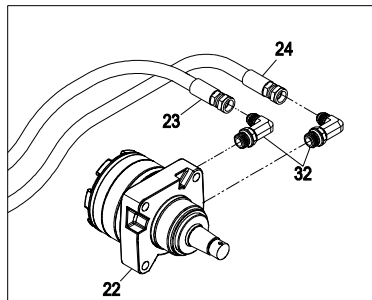
### 66" & 72" OPTION 2



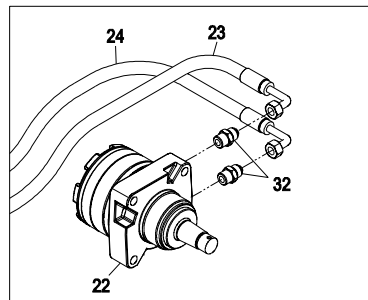
### 66" & 72" OPTION 1



### 66" & 72" OPTION 1



### 66" & 72" OPTION 2



## HYDRAULIC GROUP – 31HP BRIGGS & STRATTON

| Item | Part No. | Description                                  | Qty. |
|------|----------|----------------------------------------------|------|
| 1    | 103-1947 | Asm, Reservoir W/Decal .....                 | 1    |
| 2    | 103-7615 | Asm Cap W/Gasket.....                        | 1    |
| 3    | 103-1949 | Gasket, Reservoir Cap.....                   | 1    |
| 4    | 104-7836 | Head, Filter .....                           | 1    |
| 5    | 109-4180 | Element, Hydraulic Oil Filter .....          | 1    |
| ▲    | 1-523541 | Element, Hydraulic Filter (Winter).....      | 1    |
| 6    | 97-1271  | Clamp, Hose Worm Gear .....                  | 2    |
| 7    | 105-7699 | Strip, Vinyl Seal.....                       | 1    |
| 8    | 109-6273 | Asm, Hose Hydraulic.....                     | 1    |
|      | 1-603921 | Boss O-Ring .....                            | 1    |
| 9    | 32120-10 | Ring, Retaining .....                        | 2    |
| 10   | 109-6274 | Hose, Hydraulic.....                         | 1    |
| 11   | 109-6276 | Asm, Hose Hydraulic.....                     | 1    |
| 12   | 109-6275 | Asm, Hose Hydraulic.....                     | 1    |
| 13   | 103-3506 | Seal, Single Lip .....                       | 2    |
| 14   | 109-6278 | Fitting, 45° .....                           | 1    |
|      | 1-603921 | Boss O-Ring .....                            | 1    |
|      | 1-603992 | O-Ring (37° Flare #8).....                   | 1    |
| 15   | 103-1912 | Adapter, Straight .....                      | 1    |
|      | 1-603921 | Boss O-Ring .....                            | 1    |
| 16   | 103-1802 | Elbow, 90° .....                             | 2    |
|      | 1-603921 | Boss O-Ring .....                            | 1    |
| 17   | 321-3    | Screw, 1/4-20 x 5/8 .....                    | 2    |
| 18   | 1-805004 | Lockwasher, 1/4 .....                        | 2    |
| 19   | 103-2156 | Adapter, Straight .....                      | 2    |
|      | 1-603921 | Boss O-Ring .....                            | 1    |
|      | 103-1020 | O-Ring (37° Flare #6).....                   | 1    |
| 20   | 109-6130 | Pump, Hydraulic.....                         | 2    |
|      | 103-7441 | Kit, Input Bearing .....                     | 1    |
|      | 103-8448 | Kit, Thrust Bearing .....                    | 1    |
|      | 103-7443 | Kit, Cylinder Block.....                     | 1    |
|      | 105-6184 | Kit, Overhaul Seal .....                     | 1    |
|      | 103-7488 | Fan .....                                    | 1    |
|      | 103-7489 | Guard, Fan.....                              | 1    |
|      | 103-2672 | Kit, Shock Valve (200 Bar, no orifice) ..... | 1    |
|      | 112-4155 | Kit, Shock Valve (200 Bar, .031 orifice) ..  | 1    |
| 21   | 1-603990 | Connector, Straight .....                    | 4    |
|      | 1-603920 | O-Ring (SAE #8) .....                        | 1    |
|      | 1-603992 | O-Ring (37° Flare #8).....                   | 1    |
| 22   | 1-523328 | Motor, Wheel Drive (TF Style).....           | 2    |
|      | 103-6995 | Kit, Output Shaft & Seals.....               | 1    |
|      | 103-6994 | Kit, Seal .....                              | 1    |

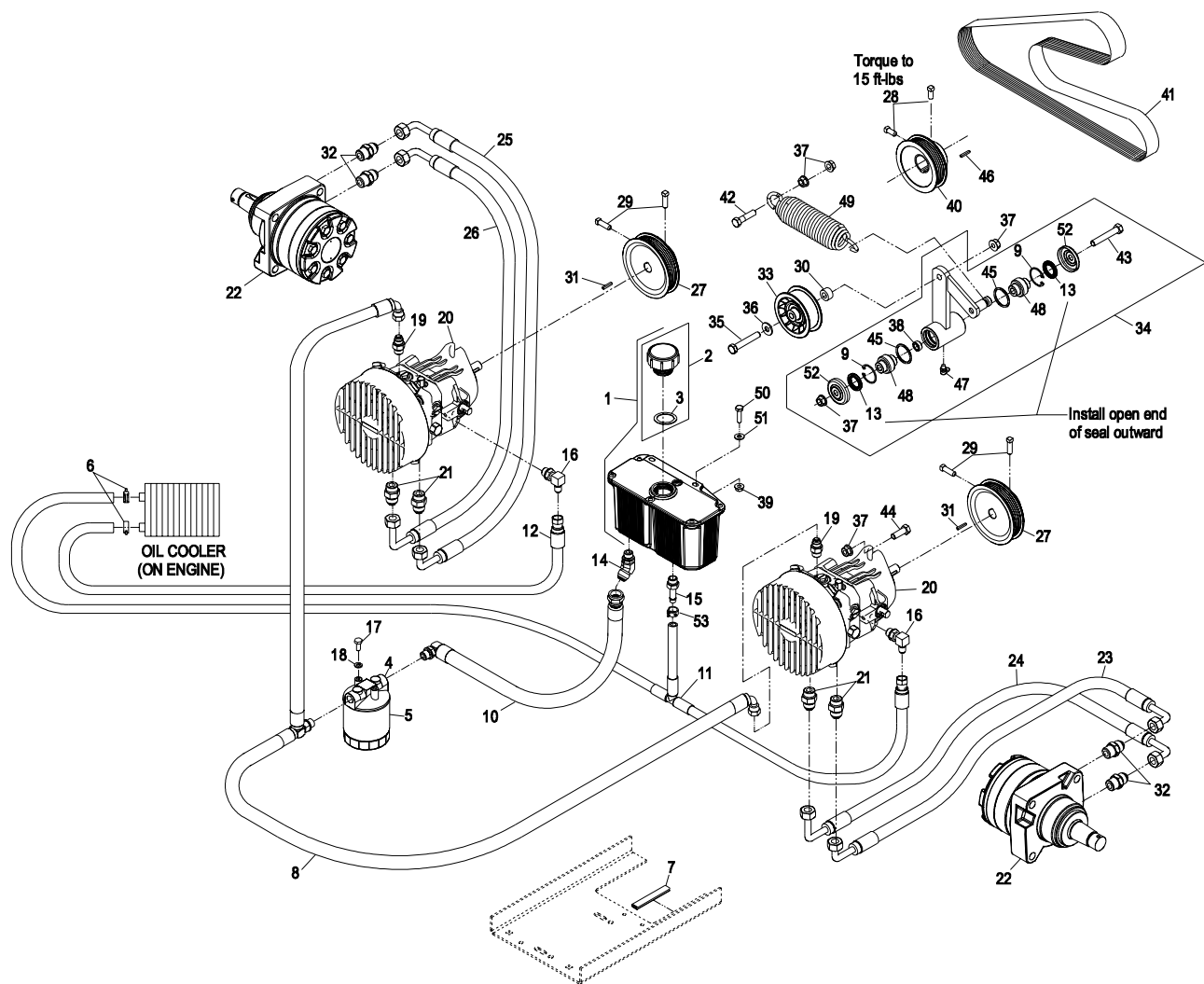
| Item | Part No. | Description                                      | Qty. |
|------|----------|--------------------------------------------------|------|
| 23   | 103-3733 | Hose, Upper LH (60").....                        | 1    |
|      | 109-2962 | Hose, Upper (66" & 72").....                     | 1    |
| 24   | 103-3735 | Hose, Lower LH (60").....                        | 1    |
|      | 109-2963 | Hose, Lower (66" & 72").....                     | 1    |
| 25   | 103-3736 | Hose, Upper RH (60") .....                       | 1    |
|      | 109-2964 | Hose, Upper (66" & 72").....                     | 1    |
| 26   | 103-3737 | Hose, Lower RH (60") .....                       | 1    |
|      | 109-2961 | Hose, Lower (66" & 72").....                     | 1    |
| 27   | 109-6046 | Sheave, Pump .....                               | 2    |
| 28+  | 1-803022 | Setscrew, Sq Hd 5/16-18 x 5/8.....               | 2    |
| 29+  | 30-1710  | Setscrew, Sq Hd Cup 5/16-18 x 1 .....            | 4    |
| 30   | 1-603050 | Spacer .....                                     | 1    |
| 31   | 5-1077   | Key, Machine 3/16 SQ x 1 .....                   | 2    |
| 32   | 1-603991 | Adapter, Straight .....                          | 4    |
|      | 1-603919 | Boss O-Ring .....                                | 1    |
|      | 1-603992 | O-Ring (37° Flare #8).....                       | 1    |
| 33   | 109-4076 | Idler Flat W/Hub.....                            | 1    |
| 34   | 103-5694 | Kit, Idler Arm (103-4595-03)<br>W/Bearings ..... | 1    |
| 35   | 323-11   | Screw, HH 3/8-16 x 2 1/4 .....                   | 1    |
| 36   | 3256-4   | Washer, Flat Std 3/8 .....                       | 1    |
| 37   | 3290-357 | Nut, Whizlock 3/8-16.....                        | 8    |
| 38   | 103-5677 | Spacer .....                                     | 1    |
| 39   | 32128-33 | Nut, Whizlock 1/4-20.....                        | 2    |
| 40   | 109-5501 | Sheave, Engine .....                             | 1    |
| 41   | 109-6112 | Belt, Pump Drive.....                            | 1    |
| 42   | 323-8    | Screw, 3/8-16 x 1 1/2 .....                      | 1    |
| 43   | 1-800805 | Screw, 3/8-16 x 3 1/2 Gr8 .....                  | 1    |
| 44   | 323-7    | Screw, 3/8-16 x 1 1/4 .....                      | 4    |
| 45   | 106-7159 | O-ring .....                                     | 2    |
| 46   | 13-2840  | Key, 1/4 x 1/4 x 1 1/4 .....                     | 1    |
| 47   | 302-40   | Zerk, 90° 1/4-28.....                            | 1    |
| 48   | 103-3504 | Bearing, Spherical .....                         | 2    |
| 49   | 103-3330 | Spring, Extension.....                           | 1    |
| 50   | 321-6    | Screw, HH 1/4-20 x 1.....                        | 2    |
| 51   | 3256-22  | Washer, SAE 1/4 .....                            | 2    |
| 52   | 103-2916 | Guard, Top .....                                 | 2    |
| 53   | 103-1988 | Clamp, Hose.....                                 | 1    |

Exmark black touch up spray paint - gloss black.

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

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

HYDRAULIC GROUP – 31HP BRIGGS & STRATTON



## DECAL GROUP

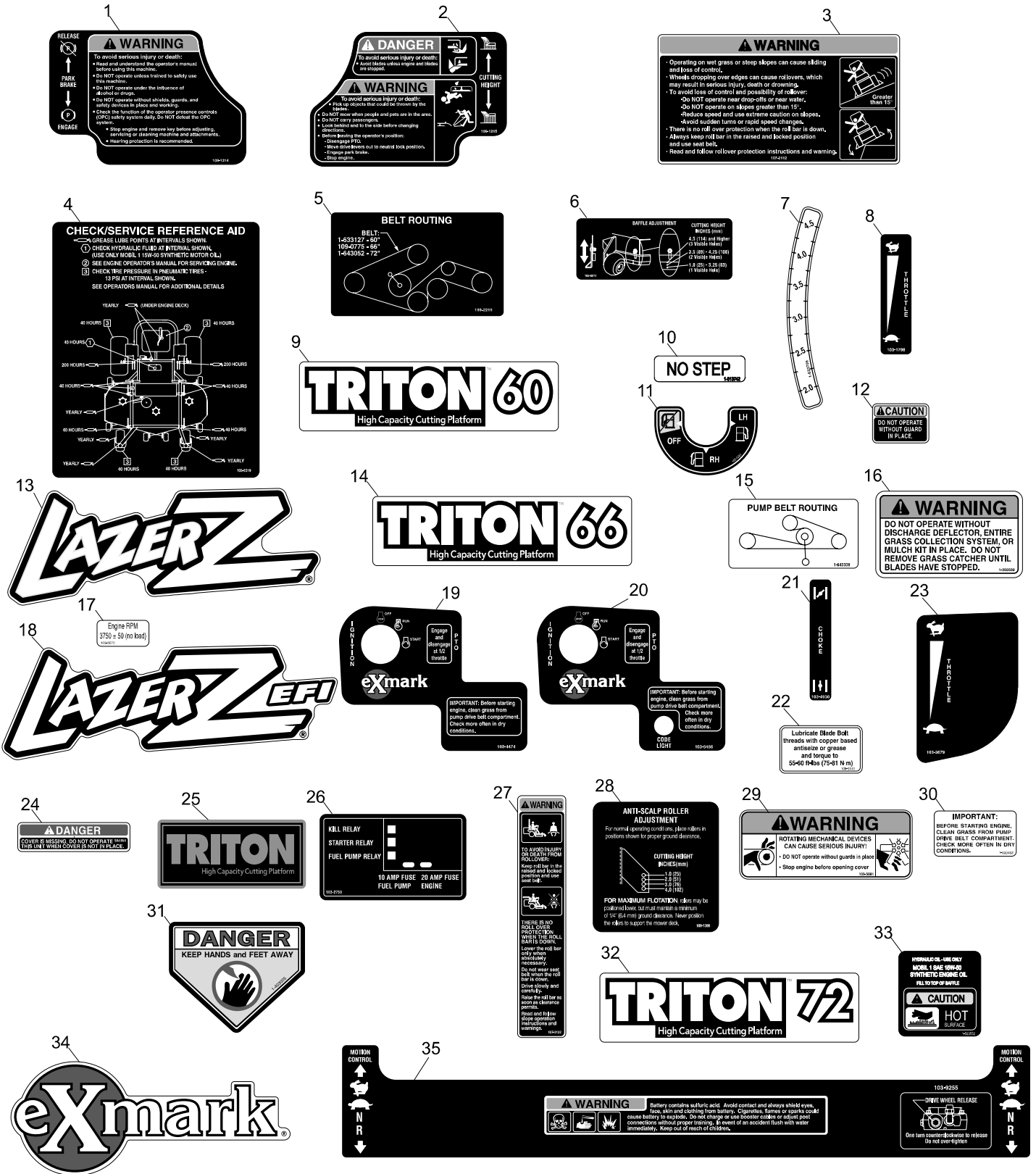
| Item | Part No. | Description                   | Qty. |
|------|----------|-------------------------------|------|
| 1    | 109-1214 | Decal, Park Brake .....       | 1    |
| 2    | 109-1215 | Decal, Cutting Height .....   | 1    |
| 3    | 107-2112 | Decal, Warning Slope .....    | 1    |
| 4    | 103-6319 | Decal, Check Service.....     | 1    |
| 5    | 109-2219 | Decal, Belt Routing .....     | 1    |
| 6    | 109-0872 | Decal, Baffle Adjustment..... | 1    |
| 7    | 1-633706 | Decal, Deck Height .....      | 1    |
| 8▲   | 103-1798 | Decal, Throttle.....          | 1    |
| 9    | 109-1803 | Decal, Triton 60.....         | 1    |
| 10   | 1-513742 | Decal, No Step.....           | 2    |
| 11+  | 103-0261 | Decal, Fuel Valve.....        | 1    |
| 12   | 1-513748 | Decal, Guard.....             | 1    |
| 13▲  | 103-3113 | Decal, Lazer Model .....      | 1    |
| 14   | 109-1804 | Decal, Triton 66.....         | 1    |
| 15   | 1-643339 | Decal, Pump Belt Rtg.....     | 1    |
| 16   | 1-303508 | Decal, Discharge Warning..... | 1    |
| 17   | 103-3270 | Decal, 3750 RPM.....          | 1    |
| 18+  | 103-5177 | Decal, EFI.....               | 1    |
| 19▲  | 103-4474 | Decal, Ignition/PTO .....     | 1    |

▲ Decal for all units except Kohler EFI.

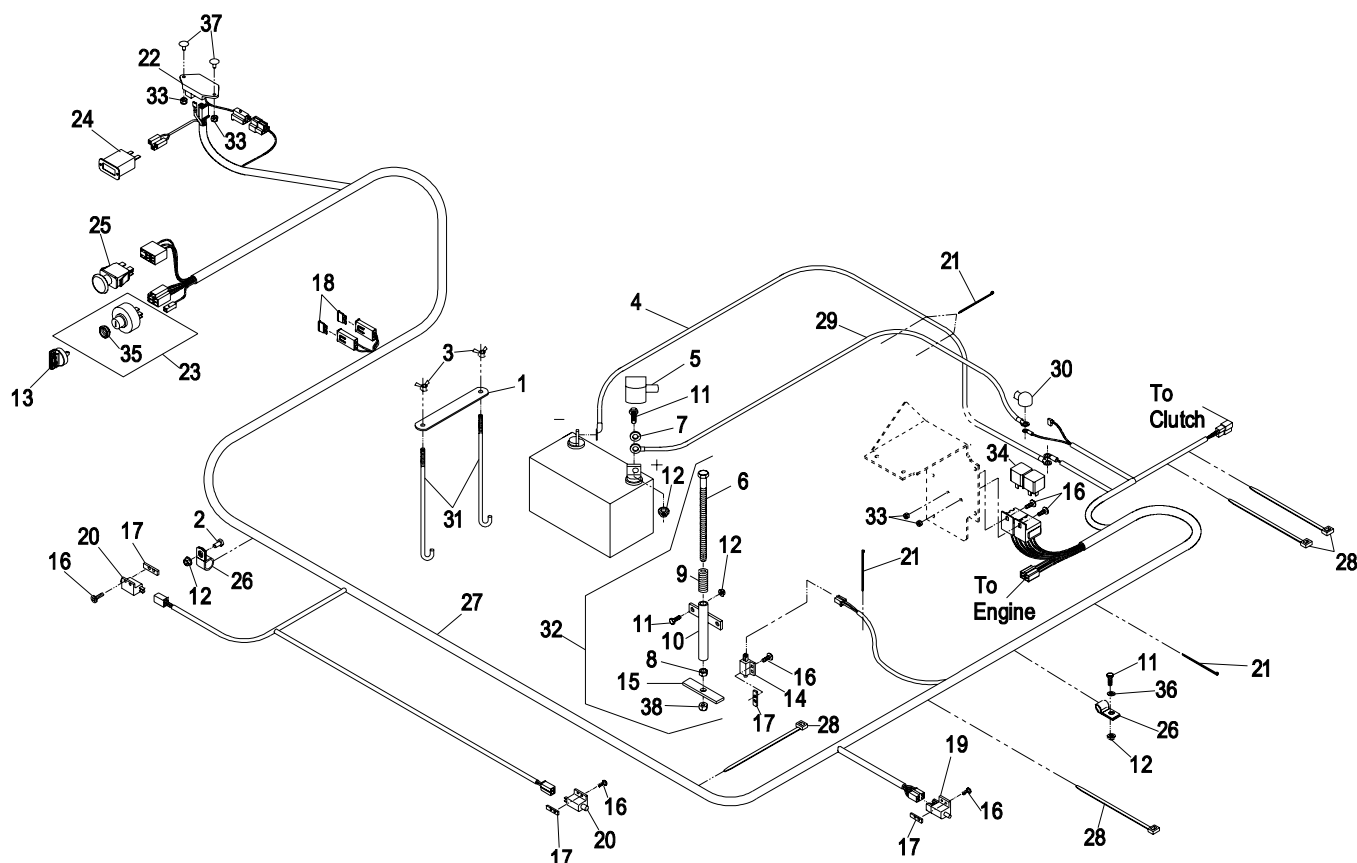
+ Decals for Kohler EFI units only.

| Item | Part No. | Description                          | Qty. |
|------|----------|--------------------------------------|------|
| 20+  | 103-5456 | Decal, Ignition/PTO EFI .....        | 1    |
| 21▲  | 103-4930 | Decal, Choke .....                   | 1    |
| 22   | 103-7491 | Decal, Bolt Torque .....             | 1    |
| 23+  | 103-3679 | Decal, Console Throttle .....        | 1    |
| 24   | 98-5954  | Decal, Missing Cover.....            | 2    |
| 25   | 109-2113 | Decal, Triton Badge .....            | 1    |
| 26+  | 103-2750 | Decal, Relay/Fuse .....              | 1    |
| 27   | 107-2102 | Decal, Rops Folding.....             | 1    |
| 28   | 109-1399 | Decal, Anti-Scalp .....              | 1    |
| 29   | 103-5881 | Decal, Rotating Devices.....         | 1    |
| 30   | 1-633462 | Decal, Important .....               | 1    |
| 31   | 1-403005 | Decal, Danger.....                   | 2    |
| 32   | 109-1805 | Decal, Triton 72 .....               | 1    |
| 33   | 1-523552 | Decal, Hyd Tank/Hot Surface.....     | 1    |
| 34   | 103-2882 | Decal, Exmark Logo.....              | 1    |
|      | 109-1801 | Decal, Exmark (31HP Briggs) .....    | 1    |
| 35   | 103-9255 | Decal, Console Top .....             | 1    |
|      | 103-5470 | Decal Kit-Air-Cooled (Including EFI) |      |

# DECAL GROUP



## ELECTRICAL GROUP – 23 HP & 27 HP KOHLER

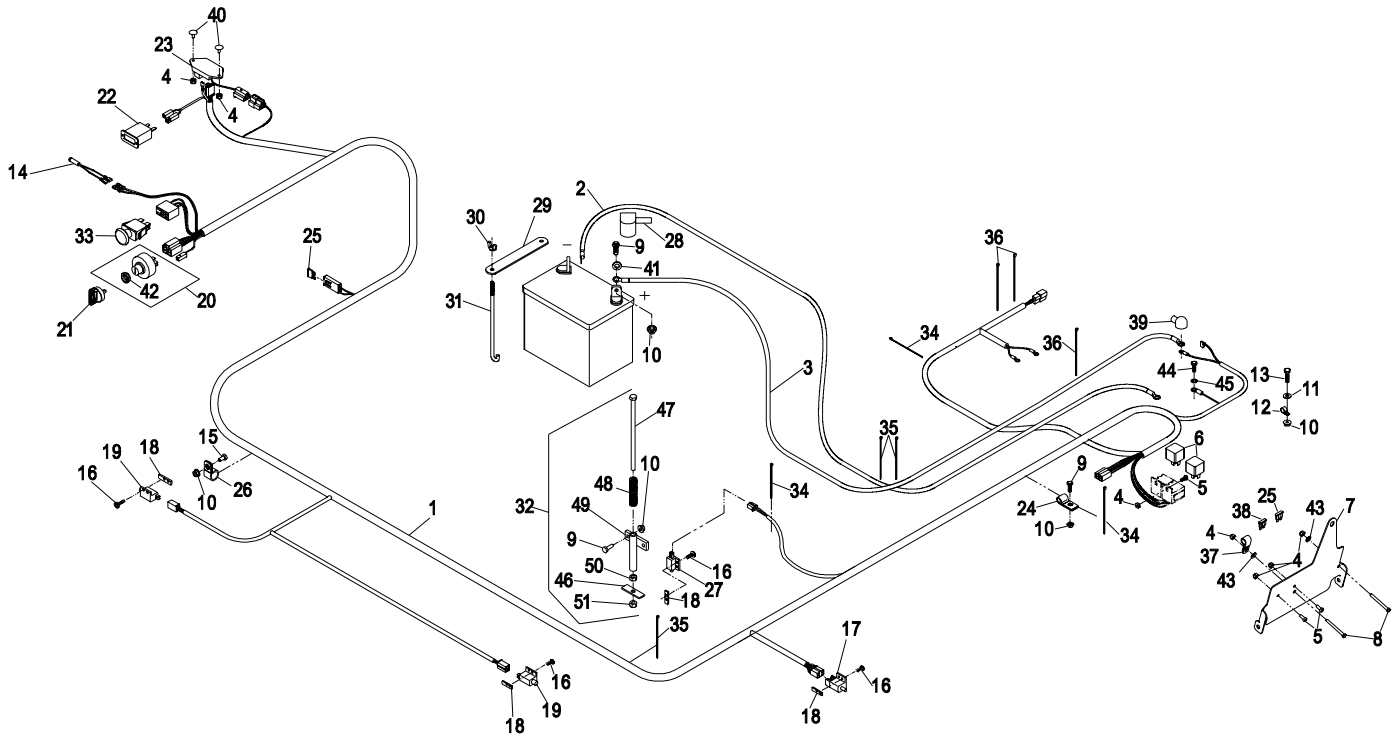


| Item | Part No.    | Description                 | Qty. |
|------|-------------|-----------------------------|------|
| 1    | 107-9277-03 | Hold Down, Battery .....    | 1    |
| 2    | 321-2       | Screw, 1/4-20 x 1/2 .....   | 1    |
| 3    | 1-543792    | Wingnut, Nyloc.....         | 2    |
| 4    | 1-633307    | Cable, Battery (-) 40"..... | 1    |
| 5    | 1-543391    | Insulator, Battery.....     | 1    |
| 6    | 1-800282    | Screw, 5/16-18 x 7 .....    | 1    |
| 7    | 3256-2      | Washer, 1/4 Flat.....       | 2    |
| 8    | 3217-6      | Nut, Hex 5/16-18 .....      | 1    |
| 9    | 1-523415    | Spring, Seat Switch.....    | 1    |
| 10   | 1-522424-03 | Wldmt, Spring Mount.....    | 1    |
| 11   | 321-4       | Screw, 1/4-20 x 3/4 .....   | 5    |
| 12   | 32128-33    | Nut, 1/4-20 Whizlock.....   | 6    |
| 13   | 103-2106    | Key, Exmark Logo.....       | 1    |
|      | 1-603511    | Key, Ignition .....         | 1    |
| 14   | 1-513152    | Switch, Seat N.C. ....      | 1    |
| 15   | 1-513180    | Actuator, Seat Switch.....  | 1    |
| 16   | 3290-500    | Screw, #10-24 x 5/8 .....   | 10   |
| 17   | 1-633181    | Plate, Tapped.....          | 4    |
| 18   | 1-816001    | Fuse-20 Amp .....           | 2    |
| 19   | 1-633111    | Switch, Brake N.O./N.C..... | 1    |

| Item | Part No. | Description                       | Qty. |
|------|----------|-----------------------------------|------|
| 20   | 1-513051 | Switch, Drive Lever N.O.....      | 2    |
| 21   | 1-303287 | Plastic Tie (Small).....          | 5    |
| 22   | 103-5218 | Module, Seat Delay .....          | 1    |
| 23   | 109-4736 | Asm, Switch W/Nut.....            | 1    |
| 24   | 1-513374 | Meter, Engine Hours.....          | 1    |
| 25   | 103-5221 | Switch, PTO.....                  | 1    |
| 26   | 1-633396 | Clip, Loom .69 .....              | 2    |
| 27▲  | 109-0125 | Harness, Wiring .....             | 1    |
| 28   | 1-303335 | Plastic Tie (Large).....          | 4    |
| 29   | 1-523281 | Cable, Battery (+) 30" .....      | 1    |
| 30   | 1-543393 | Insulator, Solenoid (+).....      | 1    |
| 31   | 1-633651 | Bolt, Battery Hold Down.....      | 2    |
| 32   | 103-5652 | Asm, Seat Switch Actuator.....    | 1    |
| 33   | 3296-2   | Nut, #10-24 Hex Nyloc.....        | 4    |
| 34   | 1-643275 | Relay, 12V .....                  | 2    |
| 35   | 103-0498 | Nut, Ignition .....               | 1    |
| 36   | 3256-22  | Washer, 1/4 SAE .....             | 1    |
| 37   | 1-807513 | Bolt, Carriage #10-24 x 1/2 ..... | 2    |
| 38   | 3296-29  | Nut, 5/16-18 Nyloc .....          | 1    |

▲ Use dielectric grease on all wiring harness connectors.

## ELECTRICAL GROUP – 28 HP KOHLER EFI

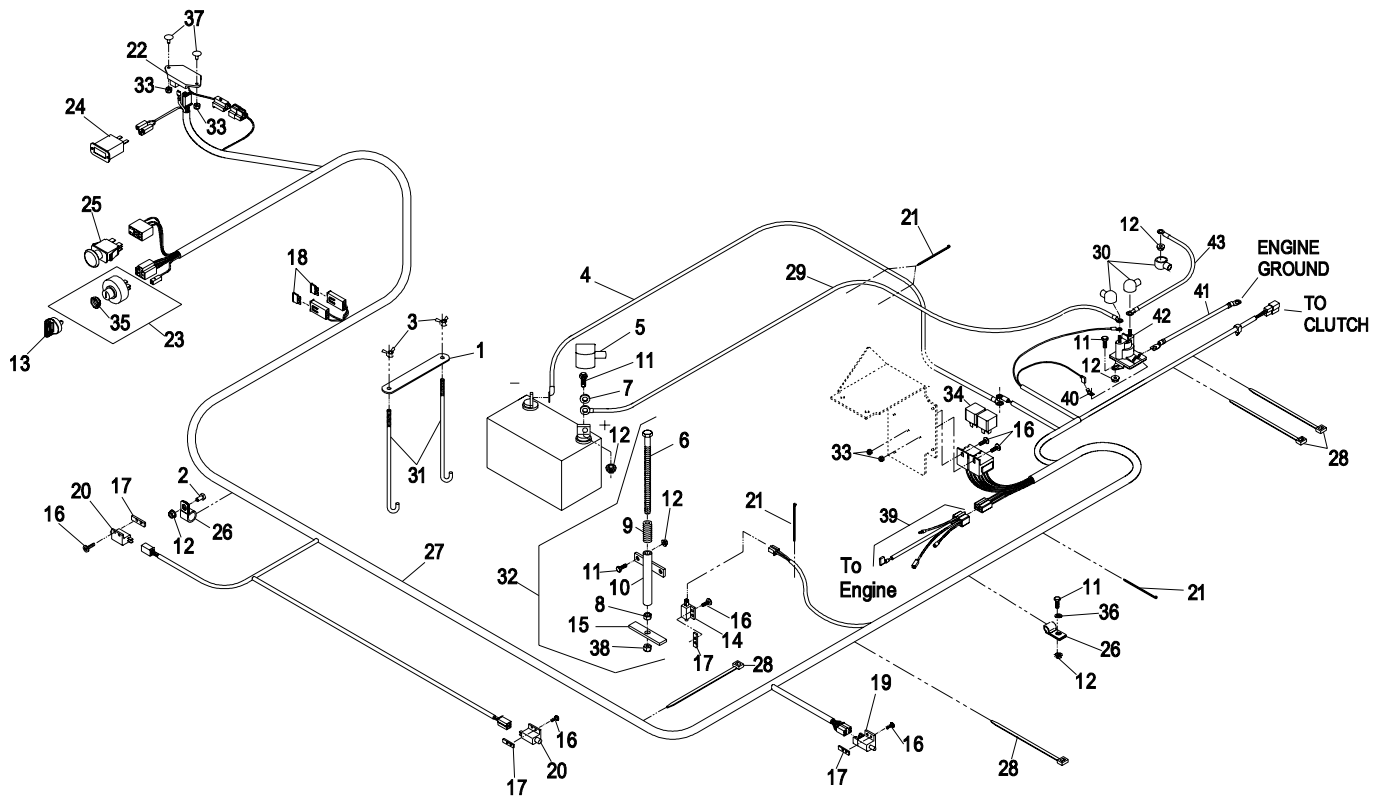


| Item | Part No.    | Description                      | Qty. |
|------|-------------|----------------------------------|------|
| 1▲   | 109-0124    | Harness-Wiring .....             | 1    |
| 2    | 1-633307    | Cable-Battery (-) .....          | 1    |
| 3    | 1-523279    | Cable- Battery (+).....          | 1    |
| 4    | 3296-2      | Nut, Nyloc #10-24 .....          | 8    |
| 5    | 1-803071    | Screw, Machine #10-24 x 1/2..... | 4    |
| 6    | 1-643275    | Relay, 12V .....                 | 2    |
| 7    | 103-7455-03 | Panel, Fuse & ECU Mount .....    | 1    |
| 8    | 32105-20    | Screw, Mach #10-24 x 2.....      | 2    |
| 9    | 321-4       | Screw, 1/4-20 x 3/4 .....        | 5    |
| 10   | 32128-33    | Nut, 1/4-20 Whizlock.....        | 7    |
| 11   | 3256-22     | Washer, 1/4 SAE Flat.....        | 1    |
| 12   | 1-643312    | Clip, Loom 1.0.....              | 1    |
| 13   | 321-6       | Screw, 1/4-20 x 1 .....          | 1    |
| 14   | 1-643267    | Indicator, Red Led.....          | 1    |
| 15   | 321-2       | Screw, 1/4-20 x 1/2 .....        | 1    |
| 16   | 3290-500    | Screw, #10-24 x 5/8 .....        | 8    |
| 17   | 1-633111    | Switch, N.O./N.C. ....           | 1    |
| 18   | 1-633181    | Plate- Tapped .....              | 4    |
| 19   | 1-513051    | Switch, Drive Lever N.O.....     | 2    |
| 20   | 109-4736    | Asm, Switch W/Nut .....          | 1    |
| 21   | 103-2106    | Key, Exmark Logo.....            | 1    |
|      | 1-603511    | Key, Ignition.....               | 1    |
| 22   | 1-513374    | Meter- Engine Hours .....        | 1    |
| 23   | 103-5218    | Module, Seat Delay.....          | 1    |
| 24   | 1-513762    | Clip, Loom .50.....              | 2    |
| 25   | 1-816001    | Fuse-20 Amp .....                | 2    |

| Item | Part No.    | Description                       | Qty. |
|------|-------------|-----------------------------------|------|
| 26   | 1-633396    | Clip, Loom .69 .....              | 1    |
| 27   | 1-513152    | Switch, Seat N.C.....             | 1    |
| 28   | 1-543391    | Insulator, Battery.....           | 1    |
| 29   | 107-9277-03 | Holdown, Battery .....            | 1    |
| 30   | 1-543792    | Wingnut, Nyloc.....               | 2    |
| 31   | 1-633651    | Bolt, Battery Holddown .....      | 2    |
| 32   | 103-5652    | Asm, Seat Switch Actuator.....    | 1    |
| 33   | 103-5221    | Switch, PTO.....                  | 1    |
| 34   | 1-303287    | Plastic Tie (Small).....          | 3    |
| 35   | 1-303335    | Plastic Tie (Medium) .....        | 3    |
| 36   | 1-643115    | Plastic Tie (Large).....          | 3    |
| 37   | 1-323229    | Clip, Loom 3/8 .....              | 1    |
| 38   | 1-816002    | Fuse, 10 Amp .....                | 1    |
| 39   | 1-543393    | Insulator, Solenoid + .....       | 1    |
| 40   | 1-807513    | Bolt, Carriage #10-24 x 1/2 ..... | 2    |
| 41   | 3256-2      | Washer, 1/4 Flat .....            | 2    |
| 42   | 103-0498    | Nut, Ignition .....               | 1    |
| 43   | 3256-14     | Washer, #10 .....                 | 2    |
| 44   | 33114-016   | Screw, M8-1.25 X 16mm .....       | 1    |
| 45   | 3256-23     | Washer, 5/16 SAE .....            | 1    |
| 46   | 1-513180    | Actuator, Seat Switch.....        | 1    |
| 47   | 1-800282    | Screw, 5/16-18 X 7 .....          | 1    |
| 48   | 1-523415    | Spring .....                      | 1    |
| 49   | 1-522424-03 | Wldmt, Seat Spring Mount .....    | 1    |
| 50   | 3217-6      | Nut, Hex 5/16-18 .....            | 1    |
| 51   | 3296-29     | Nut, 5/16-18 Nyloc.....           | 4    |

▲ Use dielectric grease on all wiring harness connectors.

# ELECTRICAL GROUP – 28 HP KAWASAKI SERIAL NUMBERS 688,160 – 688,329



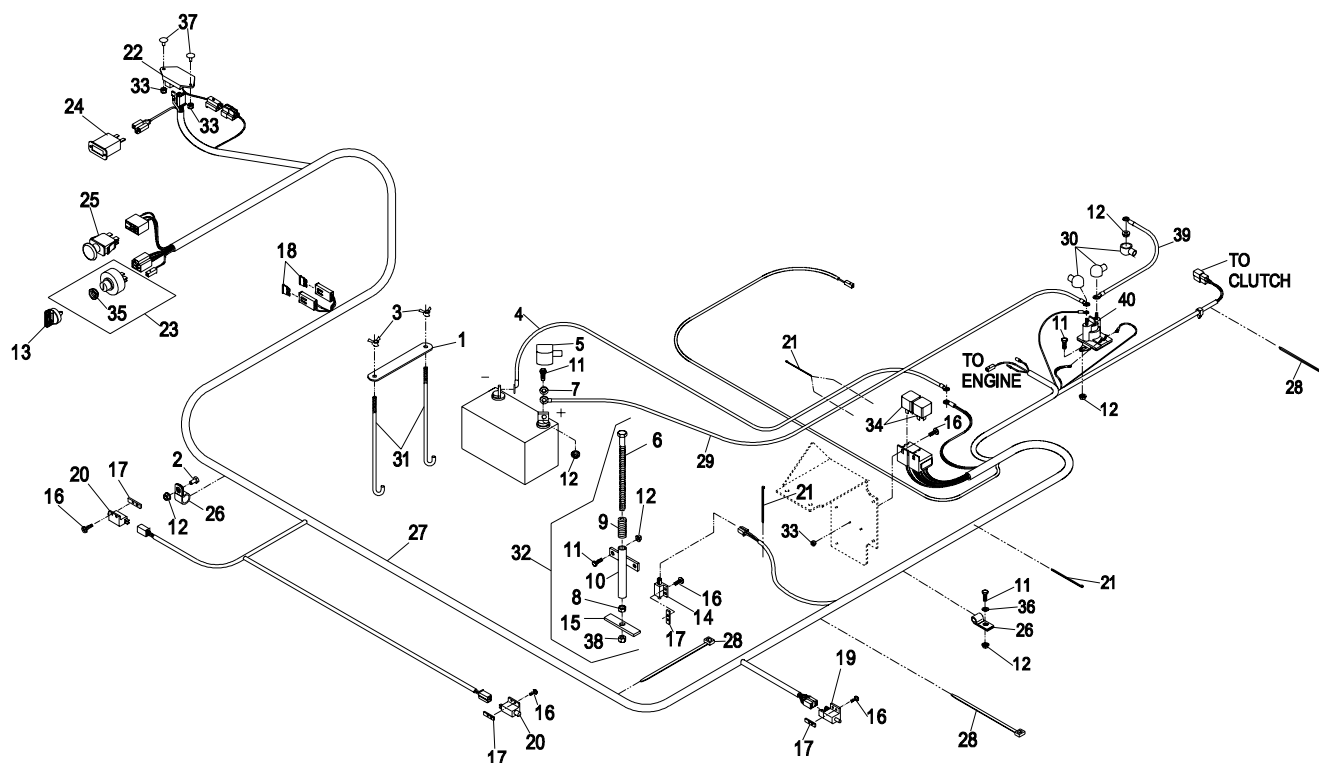
| Item | Part No.    | Description                  | Qty. |
|------|-------------|------------------------------|------|
| 1    | 107-9277-03 | Hold Down, Battery .....     | 1    |
| 2    | 321-2       | Screw, 1/4-20 x 1/2 .....    | 1    |
| 3    | 1-543792    | Wingnut, Nyloc.....          | 2    |
| 4    | 1-633307    | Cable, Battery (-) 40".....  | 1    |
| 5    | 1-543391    | Insulator, Battery .....     | 1    |
| 6    | 1-800282    | Screw, 5/16-18 x 7 .....     | 1    |
| 7    | 3256-2      | Washer, 1/4 Flat.....        | 2    |
| 8    | 3217-6      | Nut, Hex 5/16-18 .....       | 1    |
| 9    | 1-523415    | Spring, Seat Switch.....     | 1    |
| 10   | 1-522424-03 | Wldmt, Spring Mount.....     | 1    |
| 11   | 321-4       | Screw, 1/4-20 x 3/4 .....    | 7    |
| 12   | 32128-33    | Nut, 1/4-20 Whizlock.....    | 8    |
| 13   | 103-2106    | Key, Exmark Logo.....        | 1    |
|      | 1-603511    | Key, Ignition.....           | 1    |
| 14   | 1-513152    | Switch, Seat N.C.....        | 1    |
| 15   | 1-513180    | Actuator, Seat Switch.....   | 1    |
| 16   | 3290-500    | Screw, #10-24 x 5/8 .....    | 10   |
| 17   | 1-633181    | Plate, Tapped.....           | 4    |
| 18   | 1-816001    | Fuse-20 Amp .....            | 2    |
| 19   | 1-633111    | Switch, Brake N.O./N.C.....  | 1    |
| 20   | 1-513051    | Switch, Drive Lever N.O..... | 2    |
| 21   | 1-303287    | Plastic Tie (Small) .....    | 5    |

| Item | Part No. | Description                       | Qty. |
|------|----------|-----------------------------------|------|
| 22   | 103-5218 | Module, Seat Delay .....          | 1    |
| 23   | 109-4736 | Asm, Switch W/Nut .....           | 1    |
| 24   | 1-513374 | Meter, Engine Hours .....         | 1    |
| 25   | 103-5221 | Switch, PTO.....                  | 1    |
| 26   | 1-633396 | Clip, Loom .69 .....              | 2    |
| 27▲  | 109-0125 | Harness, Wiring .....             | 1    |
| 28   | 1-303335 | Plastic Tie (Large).....          | 4    |
| 29   | 1-523281 | Cable, Battery (+) 30" .....      | 1    |
| 30   | 1-543393 | Insulator, Solenoid (+).....      | 3    |
| 31   | 1-633651 | Bolt, Battery Hold Down .....     | 2    |
| 32   | 103-5652 | Asm, Seat Switch Actuator.....    | 1    |
| 33   | 3296-2   | Nut, #10-24 Hex Nyloc.....        | 4    |
| 34   | 1-643275 | Relay, 12V.....                   | 2    |
| 35   | 103-0498 | Nut, Ignition .....               | 1    |
| 36   | 3256-22  | Washer, 1/4 SAE .....             | 1    |
| 37   | 1-807513 | Bolt, Carriage #10-24 x 1/2 ..... | 2    |
| 38   | 3296-29  | Nut, 5/16-18 Nyloc .....          | 1    |
| 39   | 1-613262 | Adapter, Harness.....             | 1    |
| 40   | 109-6632 | Adapter, Spade.....               | 1    |
| 41   | 109-6631 | Wire, Ground .....                | 1    |
| 42   | 1-513075 | Switch, 12V Solenoid.....         | 1    |
| 43   | 1-633306 | Wire, Starter Solenoid.....       | 1    |

▲ Use dielectric grease on all wiring harness connectors.

# ELECTRICAL GROUP – 28 HP KAWASAKI

## ALL UNITS EXCEPT SERIAL NUMBERS 688,160 – 688,329

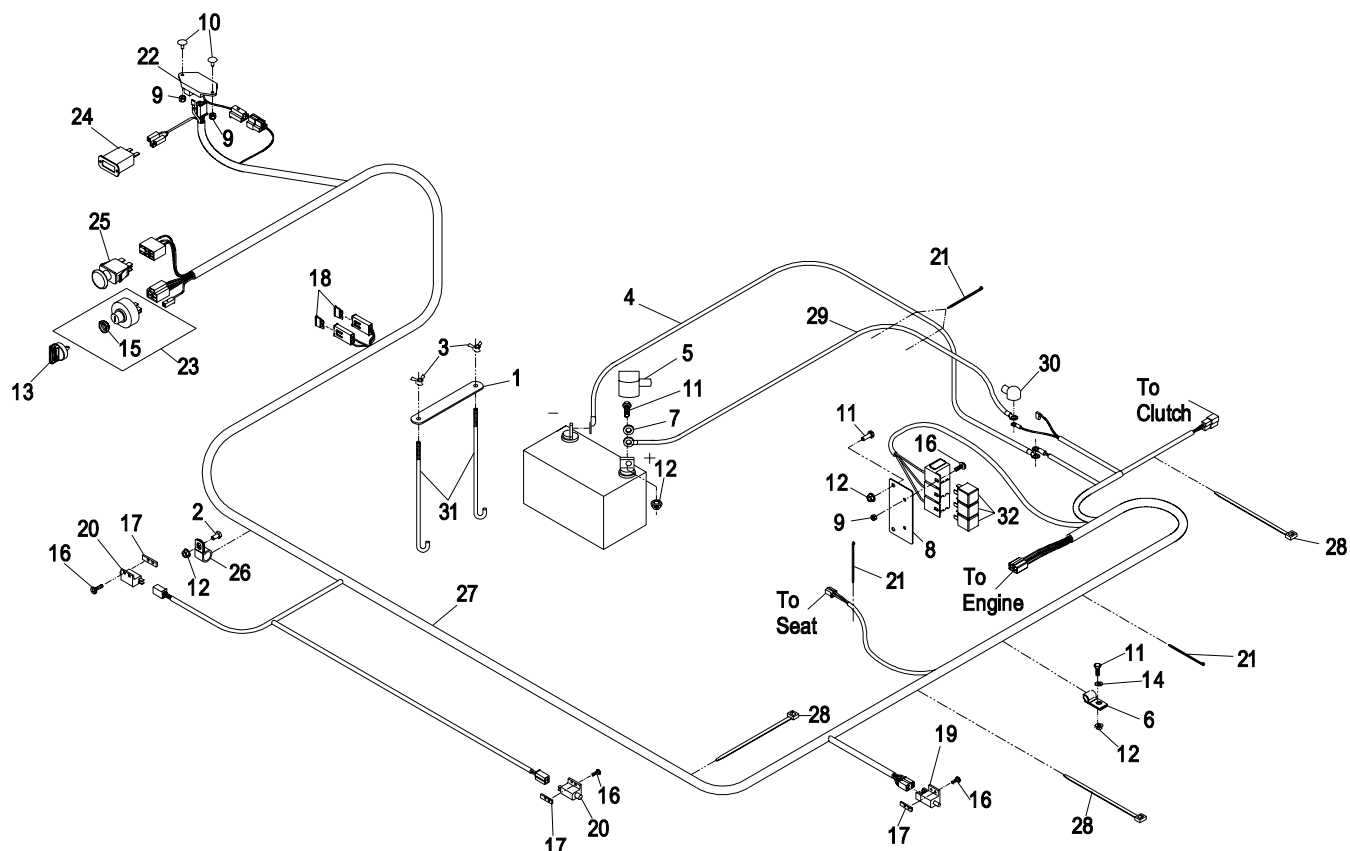


| Item | Part No.    | Description                   | Qty. |
|------|-------------|-------------------------------|------|
| 1    | 107-9277-03 | Hold Down, Battery .....      | 1    |
| 2    | 321-2       | Screw, 1/4-20 x 1/2 .....     | 1    |
| 3    | 1-543792    | Wingnut, Nyloc.....           | 2    |
| 4    | 1-633307    | Cable, Battery (-) 40".....   | 1    |
| 5    | 1-543391    | Insulator, Battery .....      | 1    |
| 6    | 1-800282    | Screw, 5/16-18 x 7 .....      | 1    |
| 7    | 3256-2      | Washer, 1/4 Flat.....         | 2    |
| 8    | 3217-6      | Nut, Hex 5/16-18 .....        | 1    |
| 9    | 1-523415    | Spring, Seat Switch.....      | 1    |
| 10   | 1-522424-03 | Wldmt, Spring Mount.....      | 1    |
| 11   | 321-4       | Screw, 1/4-20 x 3/4 .....     | 7    |
| 12   | 32128-33    | Nut, 1/4-20 Whizlock.....     | 8    |
| 13   | 103-2106    | Key, Exmark Logo.....         | 1    |
|      | 1-603511    | Key, Ignition .....           | 1    |
| 14   | 1-513152    | Switch, Seat N.C.....         | 1    |
| 15   | 1-513180    | Actuator, Seat Switch.....    | 1    |
| 16   | 3290-500    | Screw, #10-24 x 5/8 .....     | 10   |
| 17   | 1-633181    | Plate, Tapped.....            | 4    |
| 18   | 1-816001    | Fuse-20 Amp .....             | 2    |
| 19   | 1-633111    | Switch, Brake N.O./N.C.....   | 1    |
| 20   | 1-513051    | Switch, Drive Lever N.O. .... | 2    |

| Item | Part No. | Description                       | Qty. |
|------|----------|-----------------------------------|------|
| 21   | 1-303287 | Plastic Tie (Small).....          | 5    |
| 22   | 103-5218 | Module, Seat Delay .....          | 1    |
| 23   | 109-4736 | Asm, Switch W/Nut .....           | 1    |
| 24   | 1-513374 | Meter, Engine Hours .....         | 1    |
| 25   | 103-5221 | Switch, PTO.....                  | 1    |
| 26   | 1-633396 | Clip, Loom .69 .....              | 2    |
| 27▲  | 109-6005 | Harness, Wiring .....             | 1    |
| 28   | 1-303335 | Plastic Tie (Large).....          | 2    |
| 29   | 1-523281 | Cable, Battery (+) 30" .....      | 1    |
| 30   | 1-543393 | Insulator, Solenoid (+).....      | 3    |
| 31   | 1-633651 | Bolt, Battery Hold Down.....      | 2    |
| 32   | 103-5652 | Asm, Seat Switch Actuator.....    | 1    |
| 33   | 3296-2   | Nut, #10-24 Hex Nyloc.....        | 4    |
| 34   | 1-643275 | Relay, 12V .....                  | 2    |
| 35   | 103-0498 | Nut, Ignition .....               | 1    |
| 36   | 3256-22  | Washer, 1/4 SAE .....             | 1    |
| 37   | 1-807513 | Bolt, Carriage #10-24 x 1/2 ..... | 2    |
| 38   | 3296-29  | Nut, 5/16-18 Nyloc .....          | 1    |
| 39   | 1-633306 | Wire, Starter Solenoid.....       | 1    |
| 40   | 1-513075 | Switch, 12V Solenoid.....         | 1    |

▲ Use dielectric grease on all wiring harness connectors.

## ELECTRICAL GROUP – 31HP BRIGGS & STRATTON

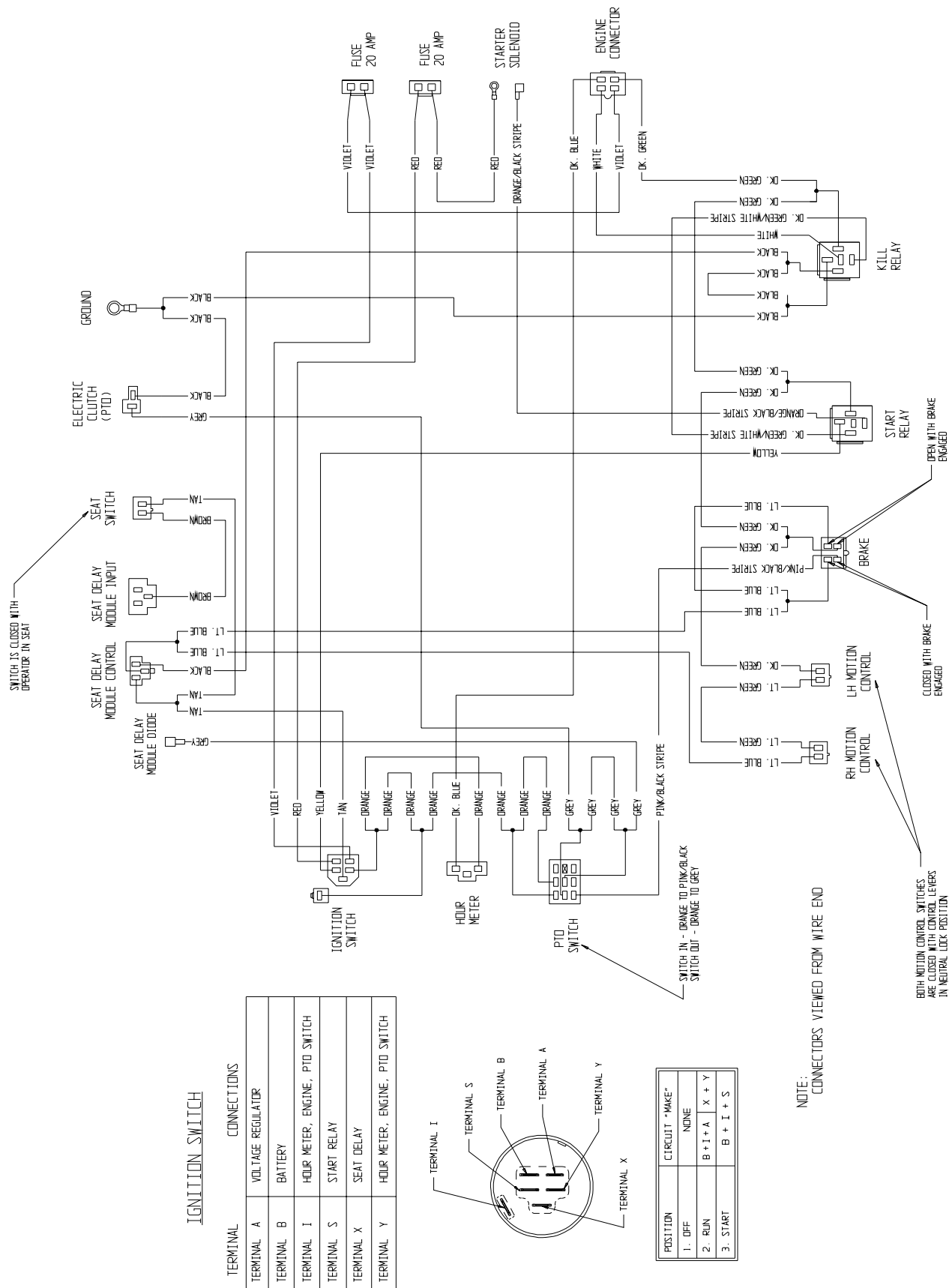


| Item | Part No.    | Description                       | Qty. |
|------|-------------|-----------------------------------|------|
| 1    | 107-9277-03 | Hold Down, Battery .....          | 1    |
| 2    | 321-2       | Screw, 1/4-20 x 1/2 .....         | 1    |
| 3    | 1-543792    | Wingnut, Nyloc.....               | 2    |
| 4    | 1-633307    | Cable, Battery (-) 40".....       | 1    |
| 5    | 1-543391    | Insulator, Battery .....          | 1    |
| 6    | 1-643312    | Clip, Loom.....                   | 1    |
| 7    | 3256-2      | Washer, 1/4 Flat.....             | 2    |
| 8    | 109-5533-03 | Mount, Relay .....                | 1    |
| 9    | 3296-2      | Nut, #10-24 Hex Nyloc.....        | 4    |
| 10   | 1-807513    | Bolt, Carriage #10-24 x 1/2 ..... | 2    |
| 11   | 321-4       | Screw, 1/4-20 x 3/4 .....         | 5    |
| 12   | 32128-33    | Nut, 1/4-20 Whizlock.....         | 6    |
| 13   | 103-2106    | Key, Exmark Logo.....             | 1    |
|      | 1-603511    | Key, Ignition .....               | 1    |
| 14   | 3256-22     | Washer, 1/4 SAE .....             | 1    |
| 15   | 103-0498    | Nut, Ignition.....                | 1    |
| 16   | 3290-500    | Screw, #10-24 x 5/8 .....         | 8    |

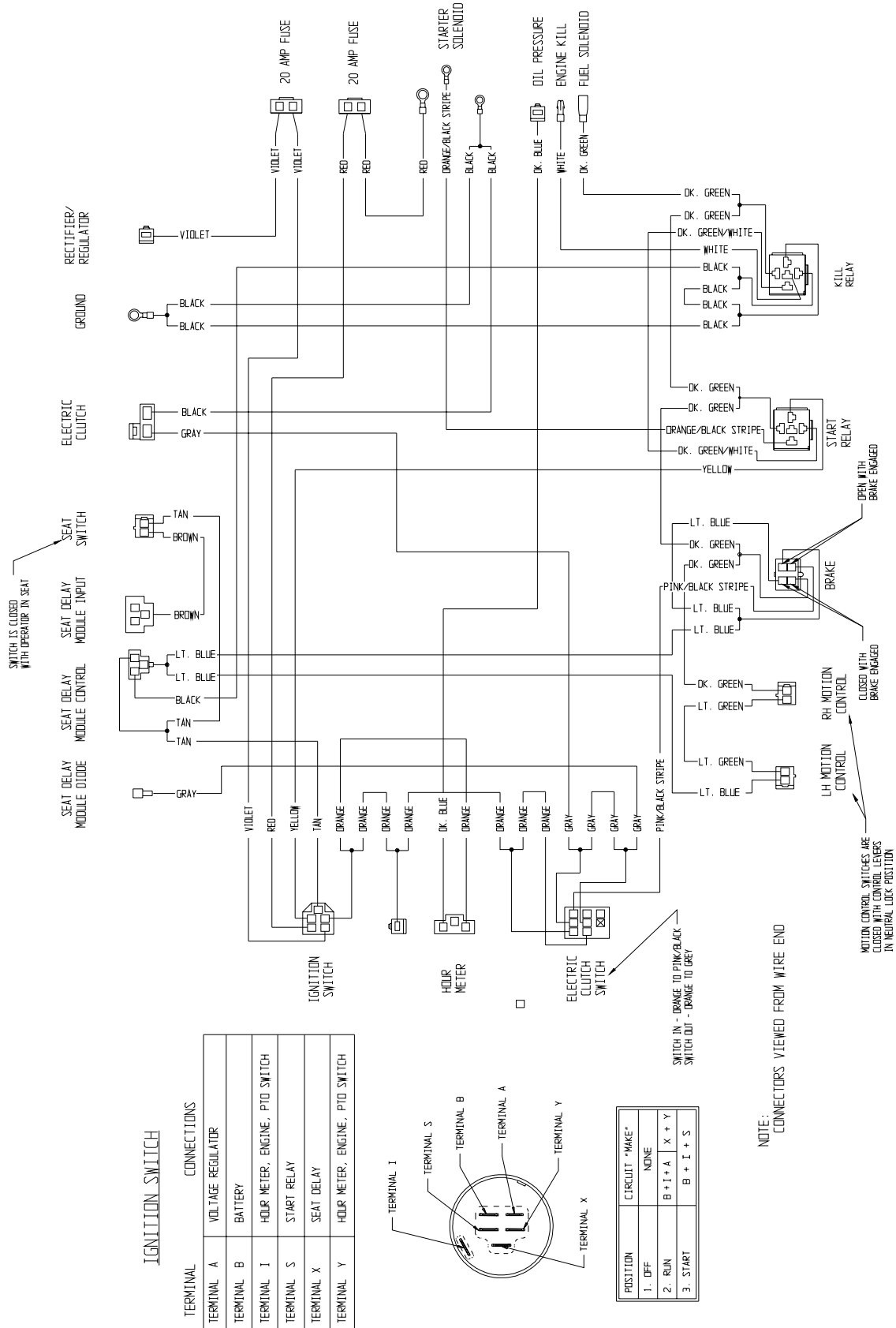
| Item | Part No. | Description                  | Qty. |
|------|----------|------------------------------|------|
| 17   | 1-633181 | Plate, Tapped .....          | 3    |
| 18   | 1-816001 | Fuse-20 Amp .....            | 2    |
| 19   | 1-633111 | Switch, Brake N.O./N.C. .... | 1    |
| 20   | 1-513051 | Switch, Drive Lever N.O..... | 2    |
| 21   | 1-303287 | Plastic Tie (Small).....     | 5    |
| 22   | 103-5218 | Module, Seat Delay .....     | 1    |
| 23   | 109-4736 | Asm, Switch W/Nut .....      | 1    |
| 24   | 1-513374 | Meter, Engine Hours .....    | 1    |
| 25   | 103-5221 | Switch, PTO.....             | 1    |
| 26   | 1-633396 | Clip, Loom .69 .....         | 1    |
| 27▲  | 109-5526 | Harness, Wiring .....        | 1    |
| 28   | 1-303335 | Plastic Tie (Large).....     | 3    |
| 29   | 1-523281 | Cable, Battery (+) 30" ..... | 1    |
| 30   | 1-543393 | Insulator, Solenoid (+)..... | 1    |
| 31   | 1-633651 | Bolt, Battery Hold Down..... | 2    |
| 32   | 1-643275 | Relay, 12V .....             | 3    |

▲ Use dielectric grease on all wiring harness connectors.

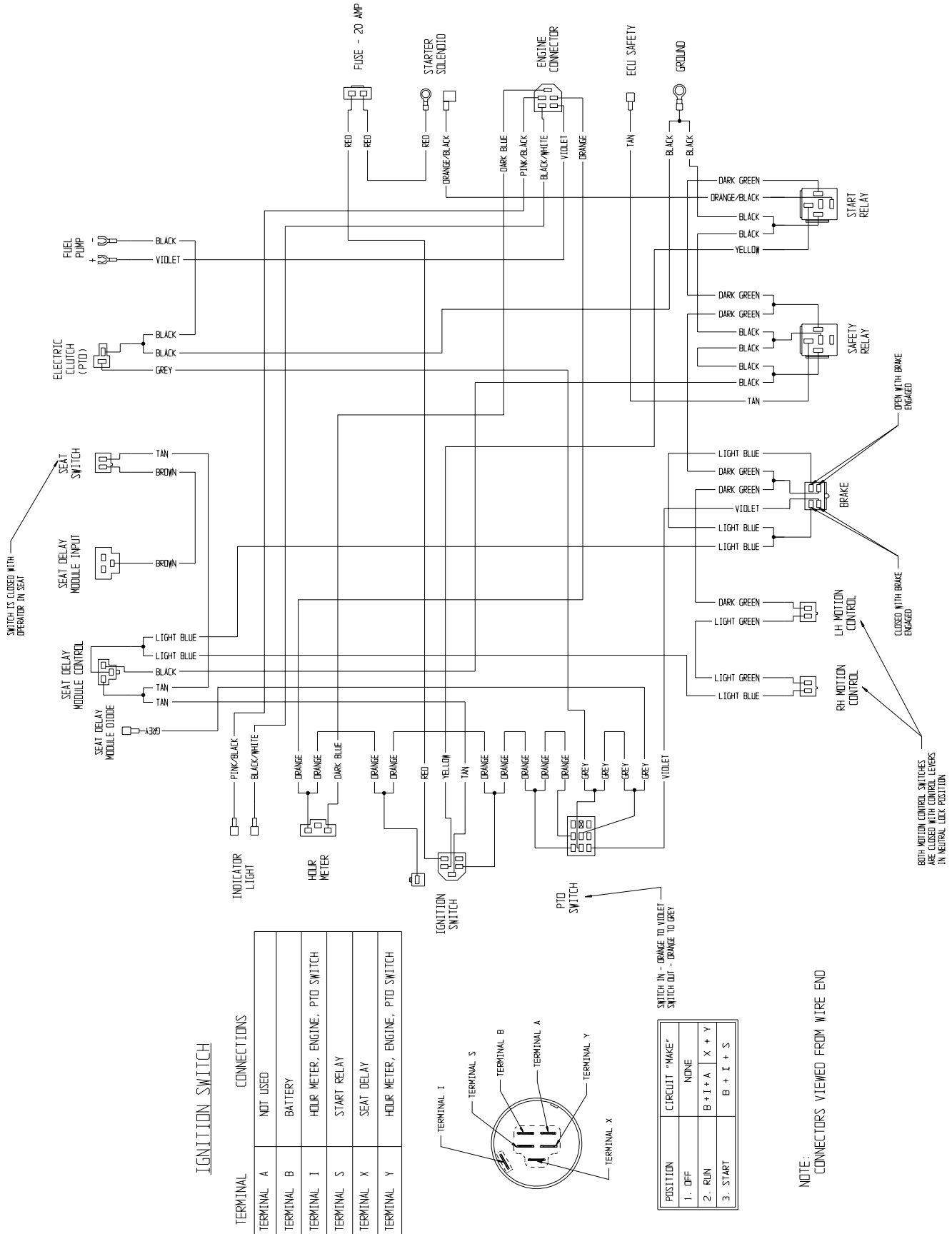
# ELECTRICAL DIAGRAM -23HP & 27HP KOHLER & 28HP KAWASAKI SERIAL NUMBERS 688,160 – 688,329



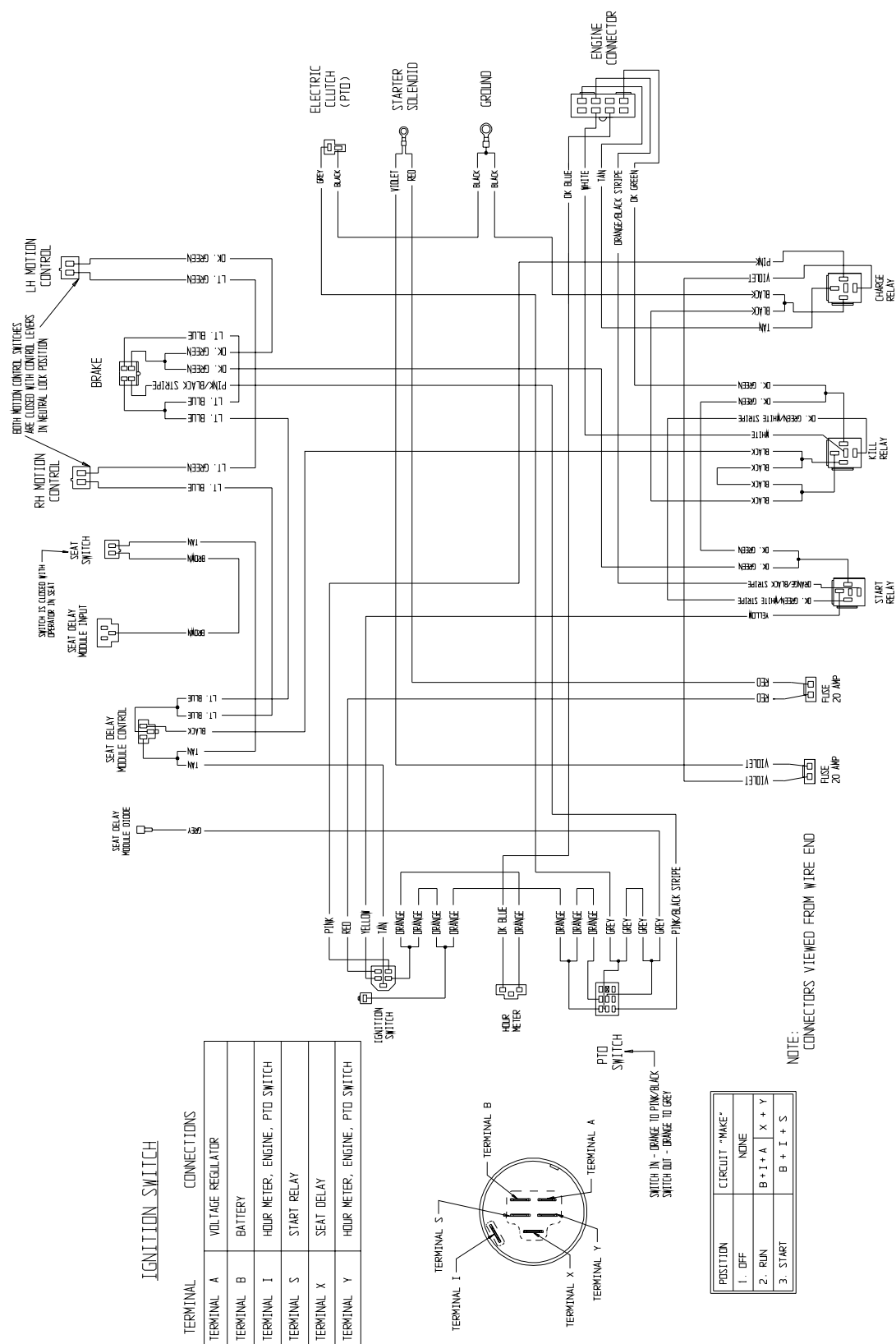
# ELECTRICAL DIAGRAM - 28HP KAWASAKI ALL UNITS EXCEPT SERIAL NUMBERS 688,160 – 688,329



# ELECTRICAL DIAGRAM – 28HP KOHLER EFI

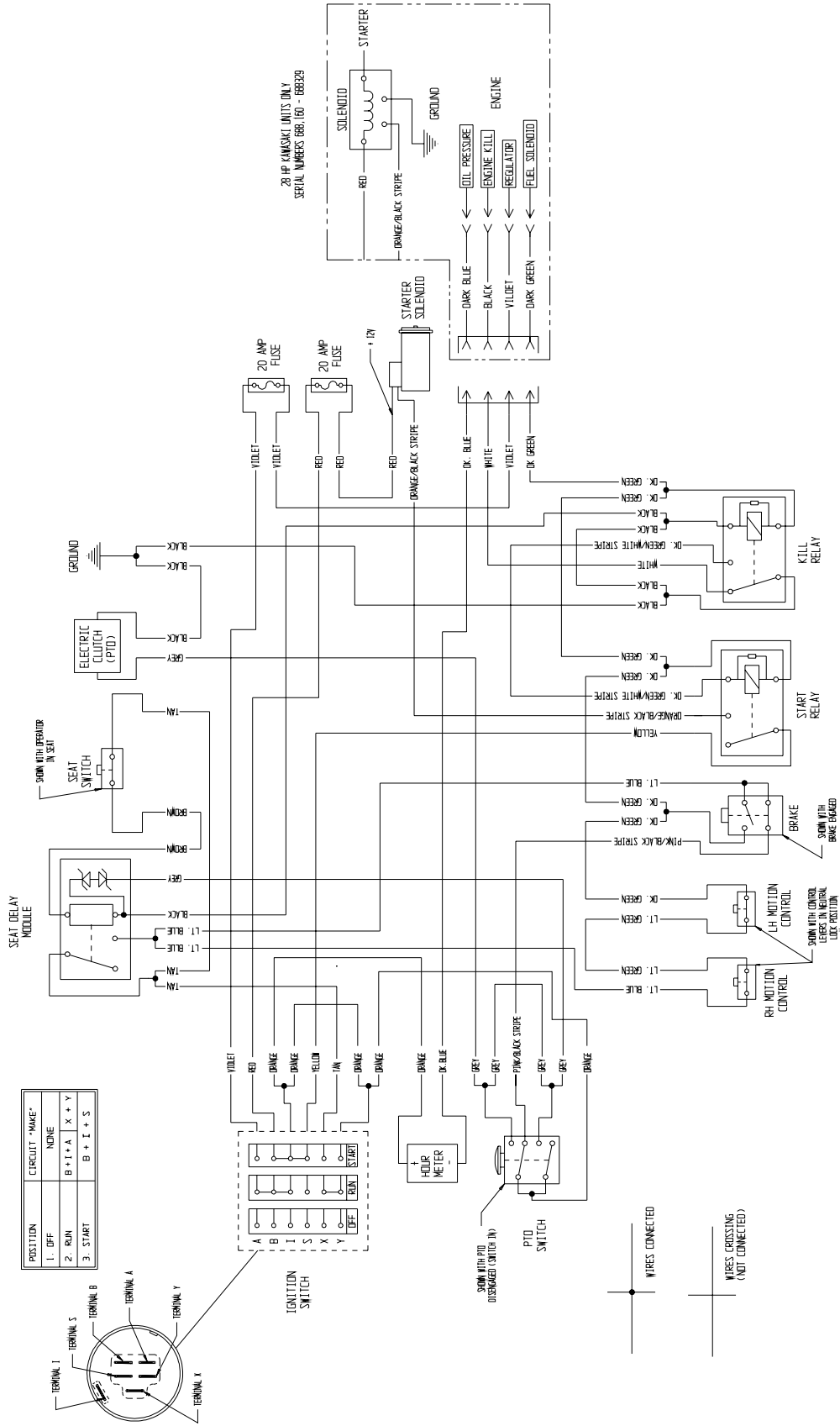


## ELECTRICAL DIAGRAM – 31HP BRIGGS & STRATTON

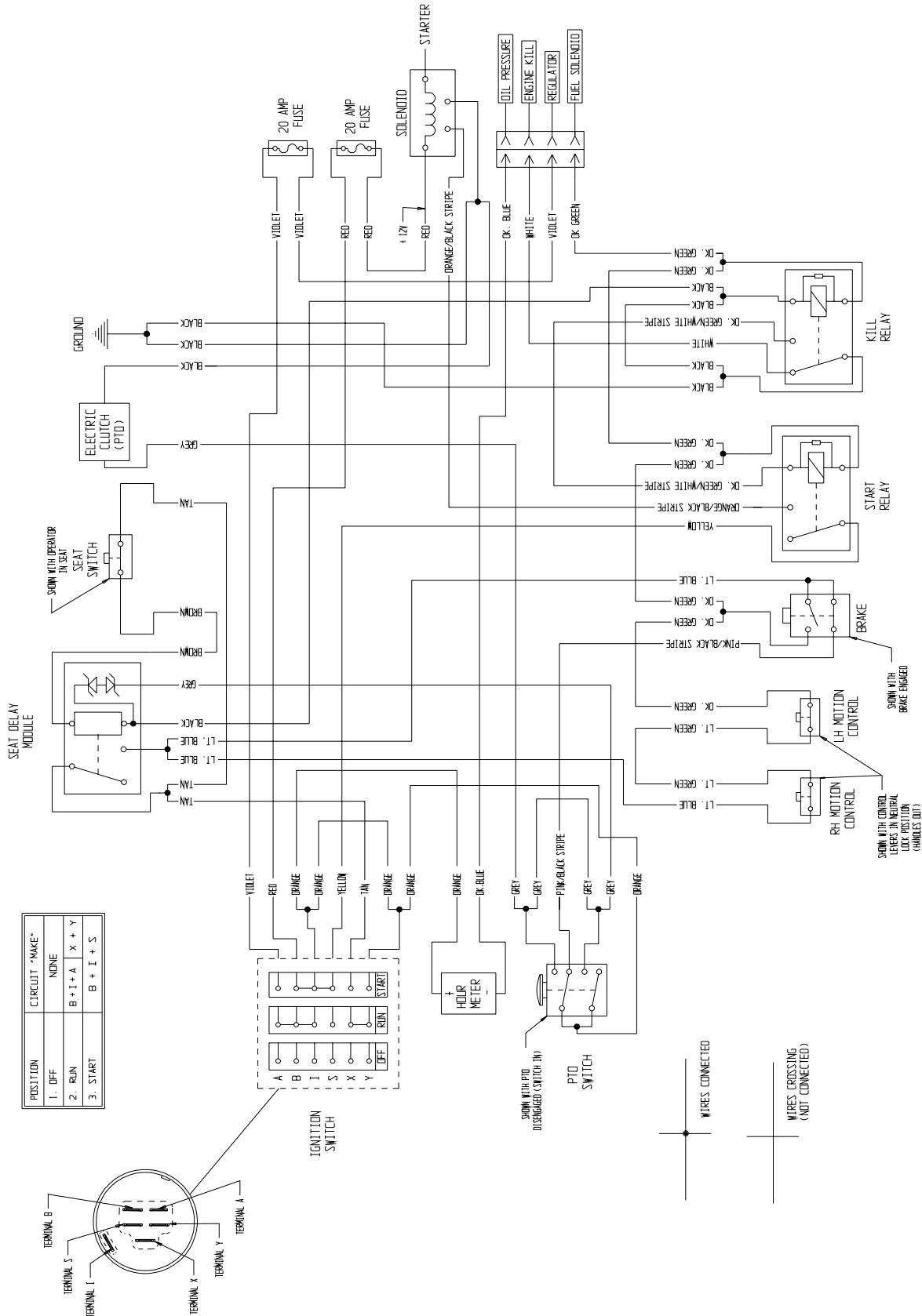


# ELECTRICAL LOGIC SCHEMATIC

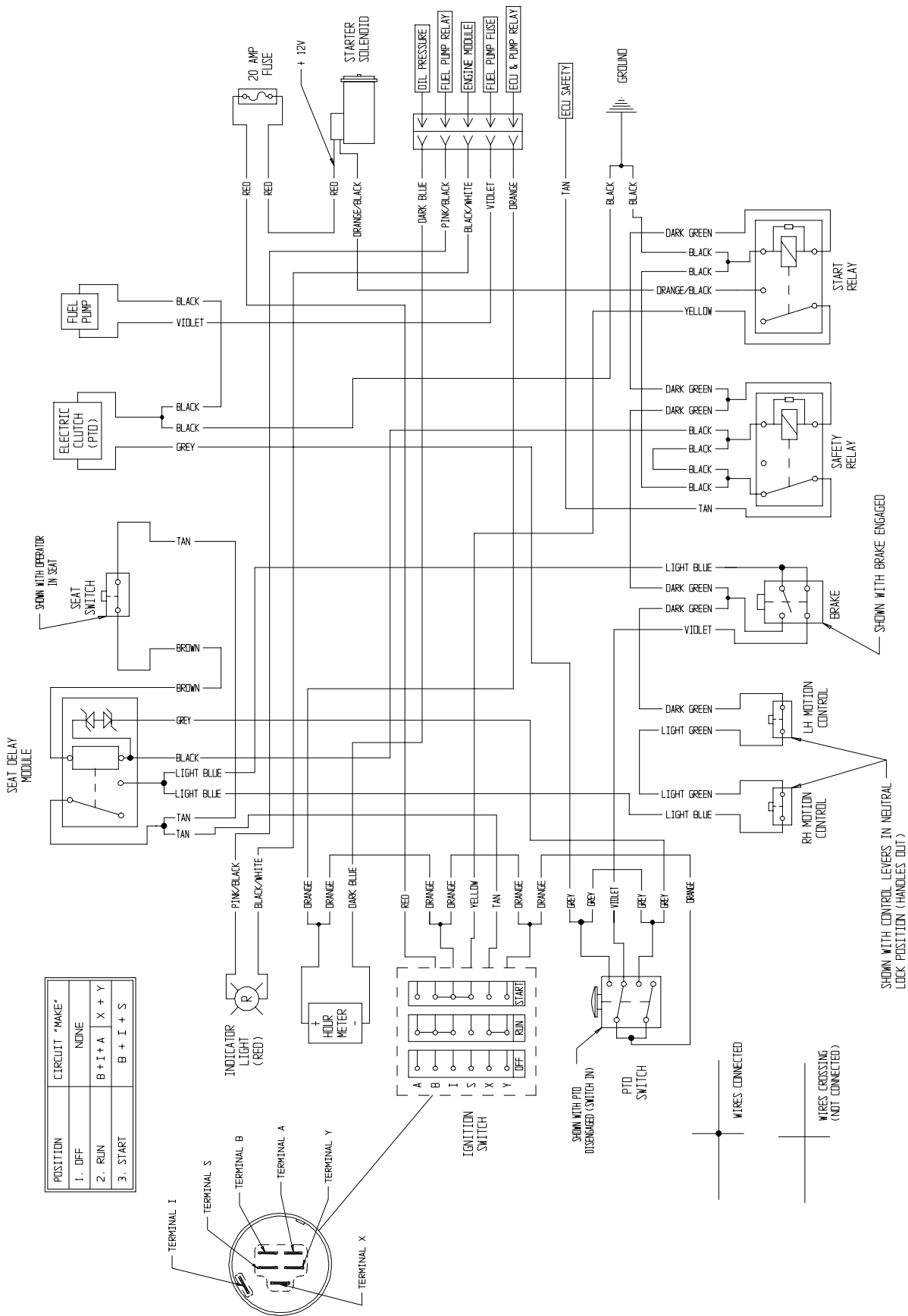
23HP & 27HP KOHLER & 28HP KAWASAKI SERIAL NUMBERS 688,160 – 688,329



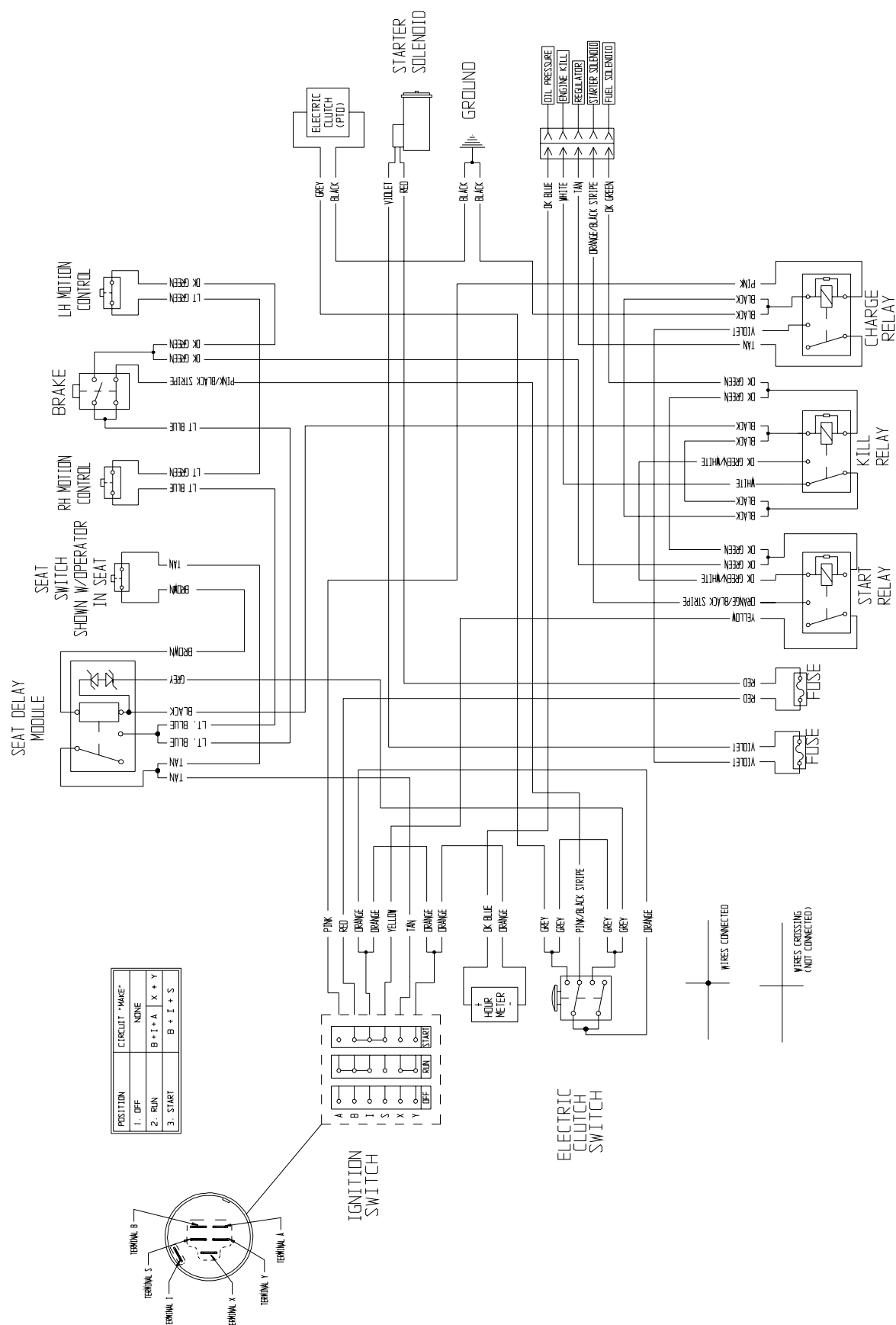
# ELECTRICAL LOGIC SCHEMATIC 28HP KAWASAKI ALL UNITS EXCEPT SERIAL NUMBERS 688,160 – 688,329



# ELECTRICAL LOGIC SCHEMATIC – 28 HP KOHLER EFI



# ELECTRICAL LOGIC SCHEMATIC – 31 HP BRIGGS & STRATTON



## SERVICE RECORD

[illegible]

## NOTES

## 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

Check us out on the Web:  
**[www.exmark.com](http://www.exmark.com)**