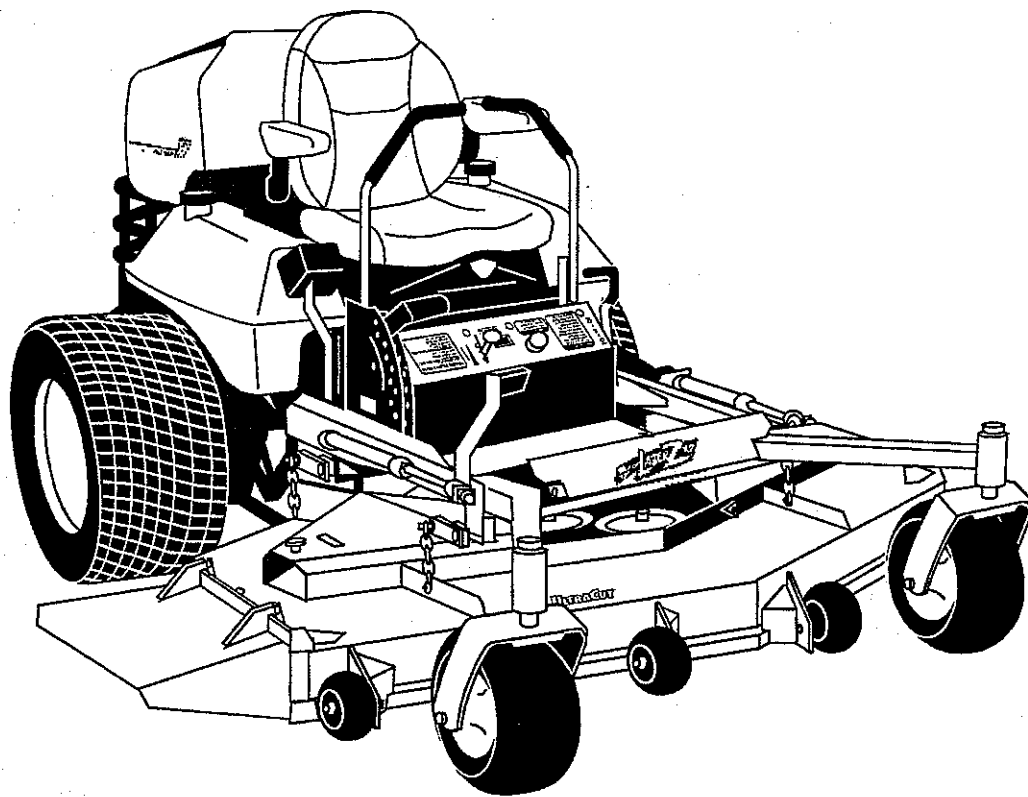


For Serial Nos.  
370,000 & Higher



# PARTS MANUAL

## LAZER Z<sup>®</sup> XP

**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

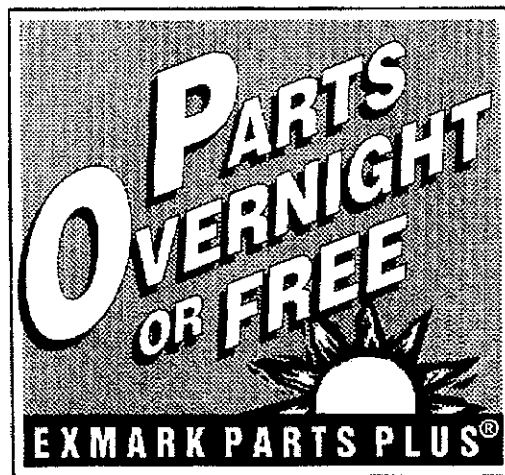
EFFECTIVE DATE: September 1, 1995

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



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

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

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

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

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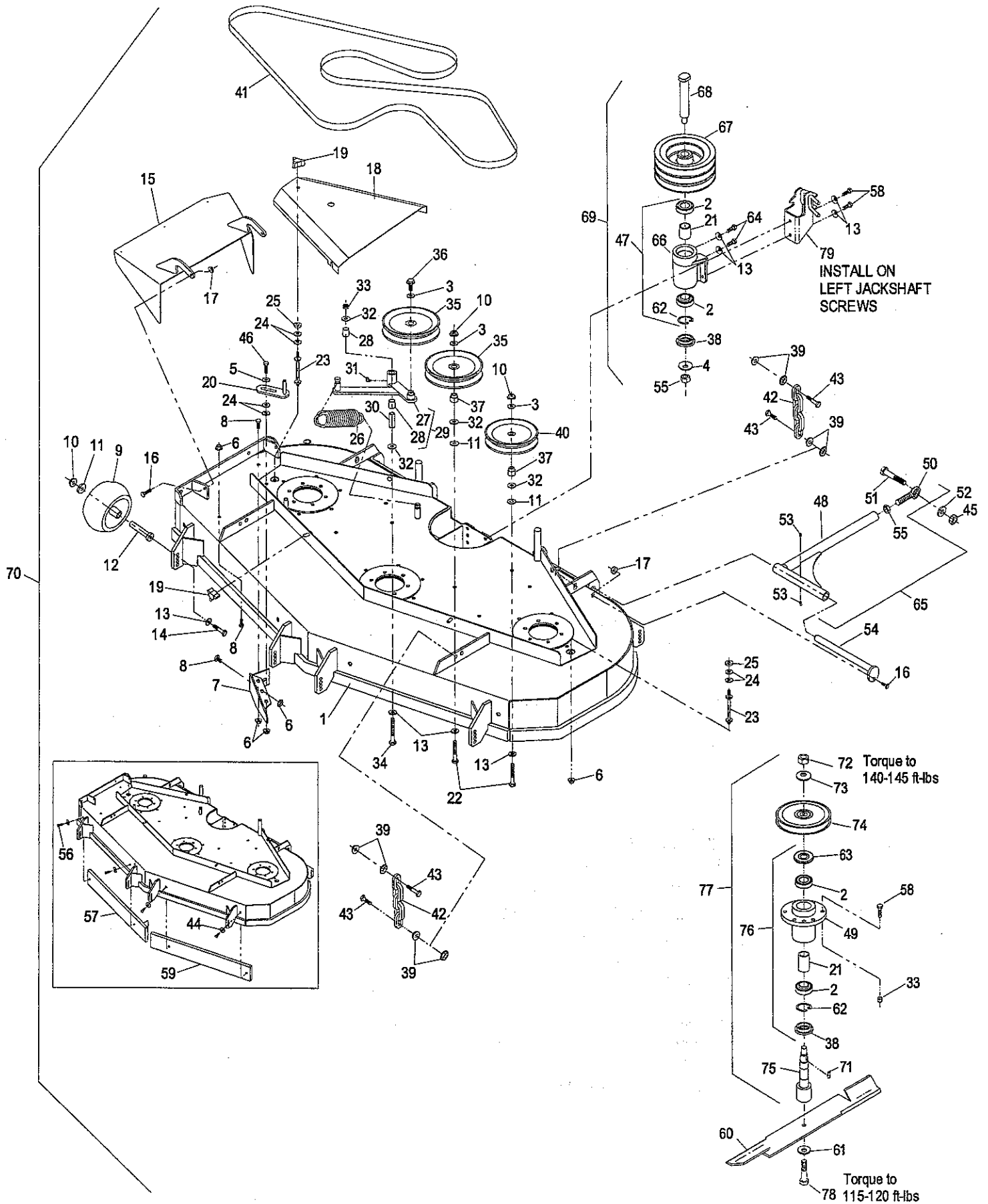
## 60" DECK GROUP

| Ref. No. | Part No.    | Description                     | Qty. Req'd. | Ref. No. | Part No.    | Description                     | Qty. Req'd. |
|----------|-------------|---------------------------------|-------------|----------|-------------|---------------------------------|-------------|
| 1        | 103-1423-01 | Deck wldmt, 60 .....            | 1           | 41       | 1-633127    | Belt, blade drive 60" deck..... | 1           |
|          | 103-1589    | Deck wldmt, 60 w/decals .....   | 1           | 42       | 1-633447    | Chain .....                     | 4           |
| 2+       | 103-2477    | Bearing, ball .....             | 8           | 43       | 103-1898    | Screw, 7/16-14 x 1-5/8 sp ..... | 8           |
| 3        | 3256-24     | Washer, 3/8 SAE .....           | 3           | 44       | 1-513435    | Washer, 1/2 disc spring .....   | 4           |
| 4        | 1-513208    | Washer, disc Spring .....       | 1           | 45       | 3217-11     | Nut, 5/8-11 hex.....            | 2           |
| 5        | 1-303334    | Washer, 5/16 disc spring .....  | 1           | 46       | 322-6       | Screw, 5/16-18 x 1 1/4 .....    | 1           |
| 6        | 32128-20    | Nut, 5/16-18 whizlock .....     | 6           | 47       | 103-2544    | Asm, jackshaft hsg w/brgs ...   | 1           |
| 7        | 1-602913-01 | Baffle wldmt, discharge.....    | 1           | 48       | 103-1355-01 | Strut wldmt, deck .....         | 2           |
| 8        | 322-2       | Screw, 5/16-18 x 5/8 .....      | 3           | 49       | 1-323532    | Housing, bearing.....           | 3           |
| 9★       | 1-603299    | Roller, antiscalp .....         | 6           | 50       | 1-633029    | Spherical rod end .....         | 2           |
| 10       | 3290-357    | Nut, 3/8-16 whizlock .....      | 8           | 51       | 327-28      | Screw, 5/8-11 x 5 1/2 .....     | 2           |
| 11       | 1-373034    | Washer, pivot.....              | 8           | 52       | 3253-8      | Lockwasher, 5/8 reg.spring ...  | 2           |
| 12       | 1-603602    | Bushing, roller.....            | 6           | 53       | 302-19      | Zerk, 1/4-28 straight.....      | 4           |
| 13       | 98-5975     | Washer, 3/8 disc spring.....    | 13          | 54       | 1-632199-01 | Pin wldmt, deck strut .....     | 2           |
| 14       | 98-5961     | Screw, 3/8-16 x 4 gr 8.....     | 6           | 55       | 3219-6      | Nut, 5/8-18 hex.....            | 3           |
| 15       | 103-1469-01 | Chute, discharge 60" .....      | 1           | 56       | 325-4       | Screw, 1/2-13 x 1 .....         | 4           |
| 16       | 322-5       | Screw, 5/16-18 x 1 .....        | 4           | 57       | 103-1522-01 | Weight Bar wldmt .....          | 1           |
| 17       | 3296-29     | Nut, 5/16-18 nyloc.....         | 4           | 58       | 323-7       | Screw, 3/8-16 x 1 1/4 .....     | 20          |
| 18       | 1-633084-01 | Shield, belt 60" (RH) .....     | 1           | 59       | 103-1515-01 | Weight Bar.....                 | 1           |
|          | 103-1470-01 | Shield, belt 60" (LH) .....     | 1           | 60       | 103-2530    | Blade, notched .....            | 3           |
| 19       | 1-323385    | Knob, belt shield .....         | 6           |          | 103-2510    | Blade, low lift.....            | 3           |
| 20       | 1-322110    | Belt guide wldmt .....          | 1           | +        | 103-0301    | Blade, mulching .....           | 3           |
| 21       | 103-2534    | Spacer, bearing .....           | 4           |          | 103-1580    | Blade, solid .....              | 3           |
| 22       | 323-11      | Screw, 3/8-16 x 2 1/4 .....     | 2           | 61       | 103-0865    | Washer, disc spring .....       | 3           |
| 23       | 1-303537    | Stud, belt shield .....         | 2           | 62       | 32120-8     | Snap Ring.....                  | 4           |
| 24       | 3256-3      | Washer 5/16 std flat.....       | 6           | 63+      | 103-1330    | Guard, bearing top .....        | 3           |
| 25       | 1-323417    | Washer, rubber.....             | 2           | 64       | 323-6       | Screw, 3/8-16 x 1 .....         | 2           |
| 26       | 103-3330    | Spring, extension .....         | 1           | 65       | 103-1356    | Strut wldmt S/A .....           | 2           |
| 27       | 1-632119-01 | Arm wldmt, deck idler .....     | 1           | 66       | 103-0280    | Housing, Jackshaft .....        | 1           |
| 28       | 1-513034    | Bearing, pivot.....             | 2           | 67+      | 103-0924    | Sheave, Jackshaft Triple.....   | 1           |
| 29       | 1-634244    | Arm wldmt/brg sub-assy .....    | 1           | 68+      | 103-0926    | Jackshaft .....                 | 1           |
| 30       | 1-603044    | Bushing, idler pivot.....       | 1           | 69       | 103-0929    | Jackshaft Assy .....            | 1           |
| 31       | 302-40      | Zerk, 1/4-20 90°.....           | 1           | 70▽      | 103-1588    | Complete Deck Assy.....         | 1           |
| 32       | 3256-4      | Washer, 3/8 std flat.....       | 4           | 71       | 103-2982    | Key, 1/4 x 3/16 x 3/4.....      | 3           |
| 33       | 3296-39     | Nut, 3/8-16 nyloc.....          | 19          | 72       | 3217-46     | Nut, HH 3/4-16 heavy.....       | 3           |
| 34       | 323-13      | Screw, 3/8-16 x 2 3/4 flange..  | 1           | 73       | 103-2802    | Washer, disc spring 3/4 .....   | 3           |
| 35       | 1-633109    | Idler pulley 6.00 dia flat..... | 2           | 74+      | 103-2794    | Sheave, blade drive.....        | 3           |
| 36       | 3234-11     | Bolt, 3/8-16 x 1 flange.....    | 1           | 75+      | 103-2785    | Spindle .....                   | 3           |
| 37       | 1-633456    | Bushing, Idler .....            | 2           | 76       | 103-2547    | Cutter housing asm .....        | 3           |
| 38       | 103-2535    | Spacer, guard bottom .....      | 4           | 77■      | 103-3200    | Cutter housing complete .....   | 3           |
| 39       | 32128-37    | Nut, 7/16-14 whizlock .....     | 16          | 78       | 103-0862    | Screw, 5/8-18 x 2 3/4 .....     | 3           |
| 40       | 1-603805    | Idler pulley 5.06 O.D. V.....   | 1           | 79       | 103-3445-01 | Guard, Jackshaft Belt .....     | 1           |

Exmark red touch up spray paint - P/N 1-850337

- ✦ Apply Mobil HTS grease (or a food-grade antisieze) between the jackshaft and bearings, jackshaft and sheaves, spindles and bearings, spindles and sheaves, and under top bearing guard. DO NOT use a copper or nickel based antisieze.
- ▽ Complete deck assembly does not include items 39, 42, & 43, but does include 2 belts (Item 69, p. 13).
- ★ Kit 103-3168 includes antiscalp roller, bushing, and mounting hardware.
- ✦ Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK604.
- Complete cutter housings also include Items 61 & 78.

# 60" DECK GROUP



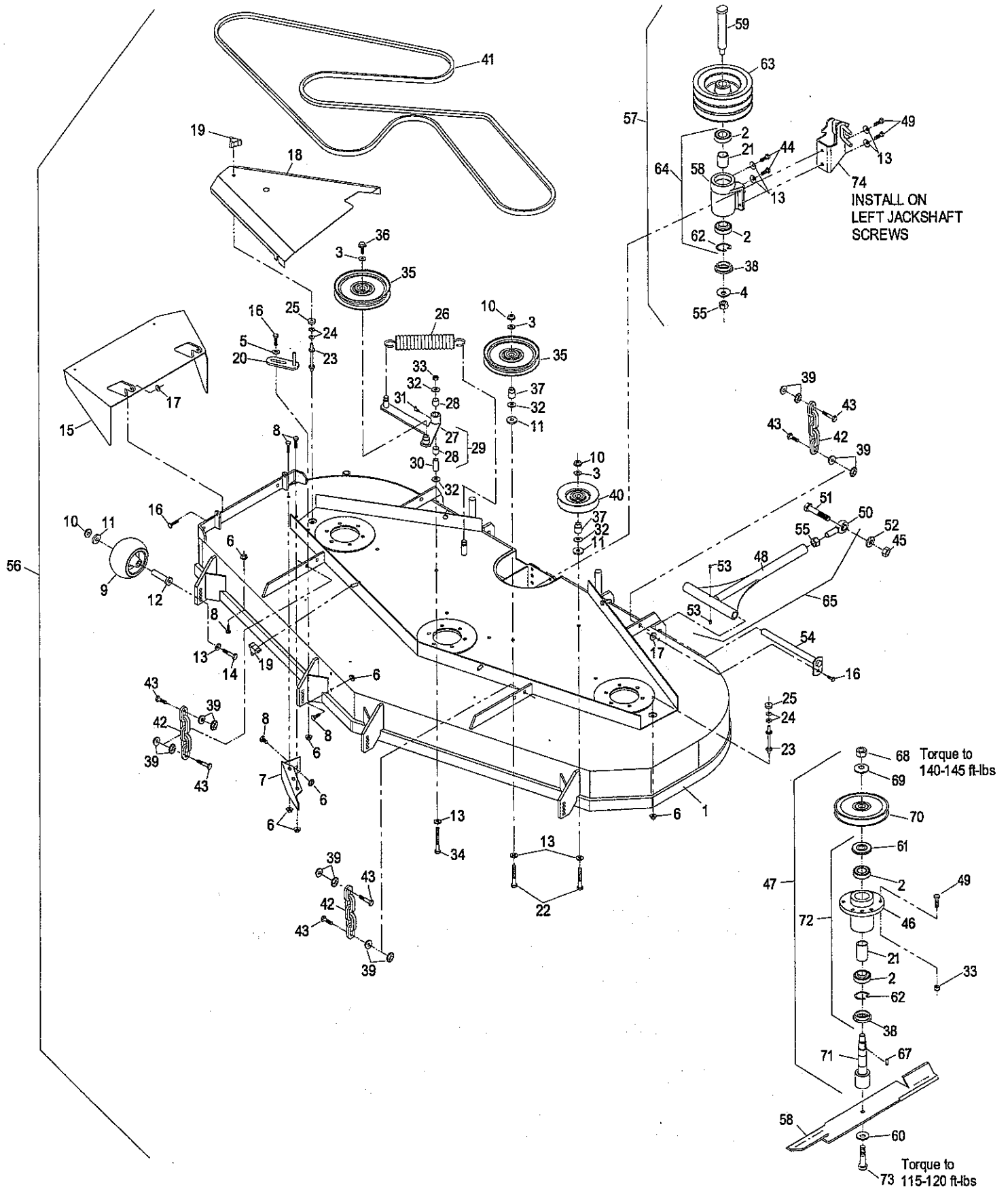
## 72" DECK GROUP

| Ref. No. | Part No.    | Description                     | Qty. Req'd. | Ref. No. | Part No.    | Description                     | Qty. Req'd. |
|----------|-------------|---------------------------------|-------------|----------|-------------|---------------------------------|-------------|
| 1        | 103-3032-01 | Deck wldmt, 72 .....            | 1           | 39       | 32128-37    | Nut, 7/16-14 whizlock.....      | 16          |
|          | 103-1591    | Deck wldmt, 72 w/decals ....    | 1           | 40       | 1-603805    | Idler pulley 5.06 O.D. V .....  | 1           |
| 2+       | 103-2477    | Bearing, ball .....             | 8           | 41       | 1-643052    | Belt, blade drive 72" deck .... | 1           |
| 3        | 3256-24     | Washer, 3/8 SAE .....           | 3           | 42       | 1-633447    | Chain.....                      | 4           |
| 4        | 1-513208    | Washer, disc Spring .....       | 1           | 43       | 103-1898    | Screw, 7/16-14 x 1-5/8 sp.....  | 8           |
| 5        | 1-303334    | Washer, 5/16 disc spring ....   | 1           | 44       | 323-6       | Screw, 3/8-16 x 1 .....         | 2           |
| 6        | 32128-20    | Nut, 5/16-18 whizlock .....     | 9           | 45       | 3217-11     | Nut, 5/8-11 hex .....           | 2           |
| 7        | 1-602913-01 | Baffle wldmt, discharge.....    | 1           | 46       | 1-323532    | Housing, bearing .....          | 3           |
| 8        | 322-2       | Screw, 5/16-18 x 5/8 .....      | 6           | 47■      | 103-3206    | Cutter housing complete .....   | 3           |
| 9★       | 1-603299    | Roller, antiscalp .....         | 6           | 48       | 103-0100-01 | Strut wldmt, deck .....         | 2           |
| 10       | 3290-357    | Nut, 3/8-16 whizlock .....      | 8           | 49       | 323-7       | Screw, 3/8-16 x 1 1/4.....      | 20          |
| 11       | 1-373034    | Washer, pivot.....              | 8           | 50       | 1-633029    | Spherical rod end .....         | 2           |
| 12       | 1-603602    | Bushing, roller .....           | 6           | 51       | 327-28      | Screw, 5/8-11 x 5 1/2.....      | 2           |
| 13       | 98-5975     | Washer, 3/8 disc spring ....    | 13          | 52       | 3253-8      | Lockwasher, 5/8 reg.spring ..   | 2           |
| 14       | 98-5961     | Screw, 3/8-16 x 4 gr 8.....     | 6           | 53       | 302-19      | Zerk, 1/4-28 straight .....     | 4           |
| 15       | 1-642071-01 | Chute, discharge 72" .....      | 1           | 54       | 1-632199-01 | Pin wldmt, deck strut.....      | 2           |
| 16       | 322-5       | Screw, 5/16-18 x 1 .....        | 5           | 55       | 3219-6      | Nut, 5/8-18 hex .....           | 3           |
| 17       | 3296-29     | Nut, 5/16-18 nylock .....       | 4           | 56▽      | 103-1590    | Complete Deck Assy .....        | 1           |
| 18       | 1-643076-01 | Shield, belt 72" (RH) .....     | 1           | 57       | 103-0929    | Jackshaft Assy .....            | 1           |
|          | 1-643075-01 | Shield, belt 72" (LH) .....     | 1           | 58       | 103-2531    | Blade, notched.....             | 3           |
| 19       | 1-323385    | Knob, belt shield .....         | 6           |          | 103-2511    | Blade, low lift .....           | 3           |
| 20       | 1-322110    | Belt guide wldmt .....          | 1           | +        | 103-2521    | Blade, mulching .....           | 3           |
| 21       | 103-2534    | Spacer, bearing .....           | 4           |          | 103-1581    | Blade, solid .....              | 3           |
| 22       | 323-11      | Screw, 3/8-16 x 2 1/4.....      | 2           | 59+      | 103-0926    | Jackshaft .....                 | 1           |
| 23       | 1-303537    | Stud, belt shield .....         | 2           | 60       | 103-0865    | Washer, disc spring .....       | 3           |
| 24       | 3256-3      | Washer 5/16 std flat.....       | 4           | 61+      | 103-1330    | Guard, bearing top .....        | 3           |
| 25       | 1-323417    | Washer, rubber.....             | 2           | 62       | 32120-8     | Snap Ring.....                  | 4           |
| 26       | 103-3330    | Spring, extension .....         | 1           | 63+      | 103-0924    | Sheave, Jackshaft Triple .....  | 1           |
| 27       | 1-632119-01 | Arm wldmt, deck idler.....      | 1           | 64       | 103-0280    | Housing, Jackshaft .....        | 1           |
| 28       | 1-513034    | Bearing, pivot.....             | 2           | 65       | 103-0840    | Strut wldmt S/A .....           | 2           |
| 29       | 1-634244    | Arm wldmt/brg sub-assy .....    | 1           | 66       | 103-2544    | Asm, jackshaft hsg w/ brgs..    | 1           |
| 30       | 1-603044    | Bushing, idler pivot.....       | 1           | 67       | 103-2982    | Key, 1/4 x 3/16 x 3/4 .....     | 3           |
| 31       | 302-40      | Zerk, 1/4-20 90° .....          | 1           | 68       | 3217-46     | Nut, HH 3/4-16 heavy .....      | 3           |
| 32       | 3256-4      | Washer, 3/8 std flat.....       | 4           | 69       | 103-2802    | Washer, disc spring 3/4.....    | 3           |
| 33       | 3296-39     | Nut, 3/8-16 nylock .....        | 19          | 70+      | 103-2795    | Sheave, blade drive.....        | 3           |
| 34       | 323-13      | Screw, 3/8-16 x 2 3/4.....      | 1           | 71+      | 103-2785    | Spindle.....                    | 3           |
| 35       | 1-633109    | Idler pulley 6.00 dia flat..... | 2           | 72       | 103-2547    | Cutter housing asm .....        | 3           |
| 36       | 3234-11     | Bolt, 3/8-16 x 1 flange.....    | 1           | 73       | 103-0862    | Screw, 5/8-18 x 2 3/4.....      | 3           |
| 37       | 1-633456    | Bushing, Idler .....            | 2           | 74       | 103-3445-01 | Guard,Jackshaft Belt.....       | 1           |
| 38       | 103-2535    | Spacer, guard bottom .....      | 4           |          |             |                                 |             |

Exmark red touch up spray paint - P/N 1-850337

- ✦ Apply Mobil HTS grease (or a food-grade antisieze) between the jackshaft and bearings, jackshaft and sheaves, spindles and bearings, spindles and sheaves, and under top bearing guard. DO NOT use a copper or nickel based antisieze.
- ▽ Complete deck assembly does not include items 39, 42, & 43, but does include 2 belts (Item 69, p. 13).
- ★ Kit 103-3168 includes antiscalp roller, bushing, and mounting hardware.
- ✦ Requires installation of Micro-Mulch accessory for proper mulching. Mulch Kit P/N MK724.
- Complete cutter housings also include Items 60 & 74.

# 72" DECK GROUP



# FRONT FRAME GROUP

| Ref. No. | Part No.    | Description                                         | Qty. Req'd. | Ref. No. | Part No.    | Description                     | Qty. Req'd. |
|----------|-------------|-----------------------------------------------------|-------------|----------|-------------|---------------------------------|-------------|
| 1        | 103-2478-01 | Frame wldmt, front 60".....                         | 1           | 35       | 103-1474-01 | Caster wldmt.....               | 2           |
|          | 103-2479-01 | Frame wldmt, front 72".....                         | 1           | 36       | 3296-51     | Nut, 3/4-10 nyloc.....          | 2           |
| 2        | 302-19      | Zerk, 1/4-28 straight .....                         | 5           | 37       | 1-633508    | Washer, spring disk.....        | 6           |
| 3        | 103-1502    | Asm, Floorpan (103-1490-01) w/decals and pads ..... | 1           | 38       | 325-39      | Screw, 1/2-13 x 9 1/2 .....     | 2           |
| 4        | 1-633553    | Pad, anti skid .....                                | 2           | 39       | 1-811010    | Plug .....                      | 2           |
| 5        | 103-2084    | Lever w/grip .....                                  | 1           | 40◇      | 103-0069    | Caster wheel assy .....         | 2           |
|          | 103-2083-03 | Lever wldmt, lift .....                             | 1           | 41       | 3296-23     | Nut, 1/2-13 nyloc .....         | 2           |
| 6        | 1-633295    | Grip, lift lever .....                              | 1           | 42◇      | 1-633959    | Spacer, front caster .....      | 2           |
| 7        | 103-2064-03 | Arm wldmt, deck lift .....                          | 1           | 43       | 103-0063    | Seal, bearing.....              | 4           |
| 8        | 1-633325    | Spring, compression.....                            | 1           | 44       | 1-633585    | Bearing cone.....               | 4           |
| 9        | 3256-24     | Washer, 3/8 SAE flat .....                          | 1           | 45◇      | 1-633581    | Spacer, bearing.....            | 4           |
| 10       | 3296-39     | Nut, nyloc 3/8-16.....                              | 6           | 46◇      | 103-0065    | Wheel & tire assy .....         | 2           |
| 11       | 32151-103   | E-ring .....                                        | 5           |          | 1-523009    | Tire, 13x6.5-6 4 ply .....      | 2           |
| 12       | 1-633068    | Arm, deck lift.....                                 | 2           |          | 103-0071    | Wheel.....                      | 2           |
| 13       | 1-633889-01 | Plate, deck lift .....                              | 1           |          | 1-633584    | Bearing cup.....                | 4           |
| 14       | 1-632899-01 | Plate wldmt, deck lift.....                         | 1           | 47       | 103-1918    | Bushing .....                   | 2           |
| 15       | 1-633082    | Bushing, lift lever .....                           | 1           | 48       | 323-29      | Screw, 3/8-16 x 1 3/8.....      | 2           |
| 16       | 1-633080    | Bushing, lift lever .....                           | 1           | 49       | 32151-29    | Ring, retaining .....           | 2           |
| 17       | 323-13      | Screw, 3/8-16 x 2 3/4.....                          | 1           | 50       | 3274-18     | Screw, 5/16-18 x 1 1/4 .....    | 2           |
| 18       | 1-633097    | Hitch pin w/lanyard .....                           | 1           | 51       | 103-2437    | Cup holder assy .....           | 1           |
| 19       | 1-806005    | Hairpin cotter (serv only) ...                      | 1           | 52       | 321-2       | Screw, 1/4-20 x 1/2 .....       | 1           |
| 20       | 323-9       | Screw, 3/8-16 x 1 3/4.....                          | 2           | 54       | 3218-2      | Jam nut, 5/16-18.....           | 2           |
| 21       | 98-5975     | Washer, 3/8 disc spring.....                        | 16          | 55       | 103-1955-01 | Weldmt, front lift shaft (LH)   | 1           |
| 22       | 3290-357    | Nut, whizlock 3/8-16 .....                          | 19          | 56       | 103-2013-01 | Weldmt, front lift w/lever(RH)  | 1           |
| 23       | 323-6       | Screw, 3/8-16 x 1 .....                             | 7           | 57       | 1-523157    | Washer, spacer.....             | 2           |
| 24       | 323-7       | Screw, 3/8-16X1 1/4 .....                           | 12          | 58       | 32128-33    | Nut, whizlock 1/4-20 .....      | 1           |
| 25       | 3256-29     | Washer, 7/8 SAE flat.....                           | 4           | 59       | 103-2047    | Asm, deck lift spring.....      | 1           |
| 26       | 1-633096    | Rod, deck lift.....                                 | 2           | 60       | 3296-59     | Nut, nyloc 3/8-16 (light thin)  | 1           |
| 27       | 3217-11     | Nut, 5/8-11 regular.....                            | 6           | 61       | 100-2333-01 | Weight bar, 60" & 72" .....     | 1           |
| 28       | 1-633441    | Swivel, deck mount.....                             | 4           | 62       | 99-4646-01  | Weight bar, (60").....          | 1           |
| 29       | 3256-7      | Washer, 5/8 std flat .....                          | 4           | 63       | 323-8       | Screw, 3/8-16 x 1 1/2 (60") ... | 4           |
| 30       | 1-643015    | Spring, deck support .....                          | 2           | 64★      | 103-2768    | Guard, Seal.....                | 4           |
| 31       | 3218-6      | Jam nut, 5/8-11.....                                | 6           | 65★      | 103-5188    | Asm, Caster Wheel w/Axle        | 2           |
| 32       | 1-543513    | Cap, grease.....                                    | 2           | 66★      | 103-5156    | Axle, Caster .....              | 2           |
| 33       | 1-543509    | Bearing cone,tapered roller                         | 4           | 67★+     | 103-3051    | Spacer, Nut .....               | 4           |
|          | 1-543508    | Bearing cup, tapered roller                         | 4           | 68★      | 103-5179    | Asm, Wheel & Tire .....         | 2           |
| 34       | 1-543511    | Seal, grease .....                                  | 2           |          | 1-633584    | Bearing cup.....                | 4           |
|          |             |                                                     |             | 69       | 106-6572    | Pad, Antiskid .....             | 2           |

Exmark red touch up spray paint – P/N 1-850337.

✦ Use Pro-Lock, Nut Type (P/N 1-840022, .5 ml tube) on spacer nut.

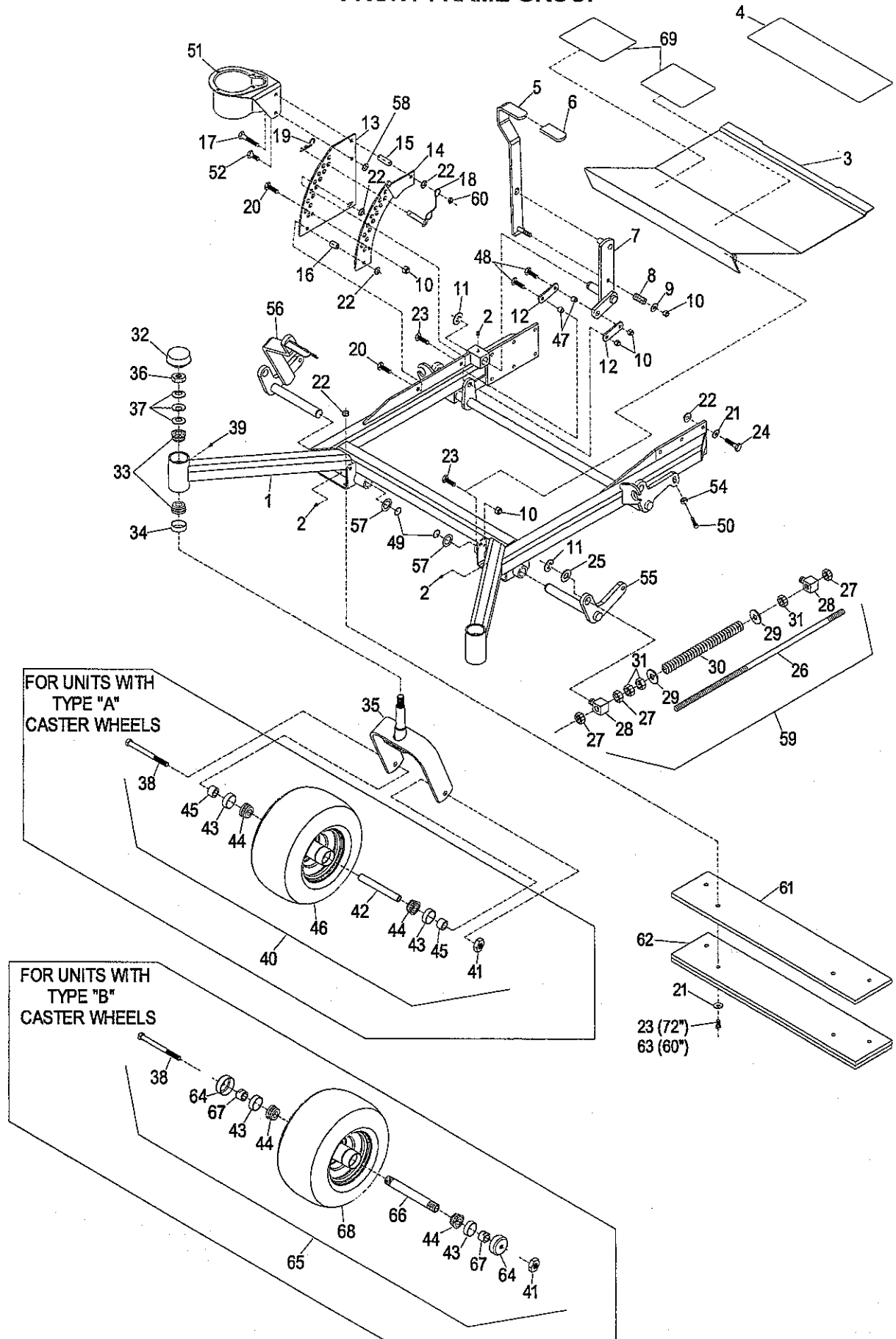
Two different versions of the caster wheel assemblies have been used on Lazer units. They are listed as assembly "A" and "B" in the diagram on the next page. Reference the diagram to determine the components for the appropriate assembly.

The items with visible differences are: Caster assembly "A" has a round spacer (item 45) with no seal guard. Caster assembly "B" has a seal guard (item 64) and spacer nut with wrench flats (item 67).

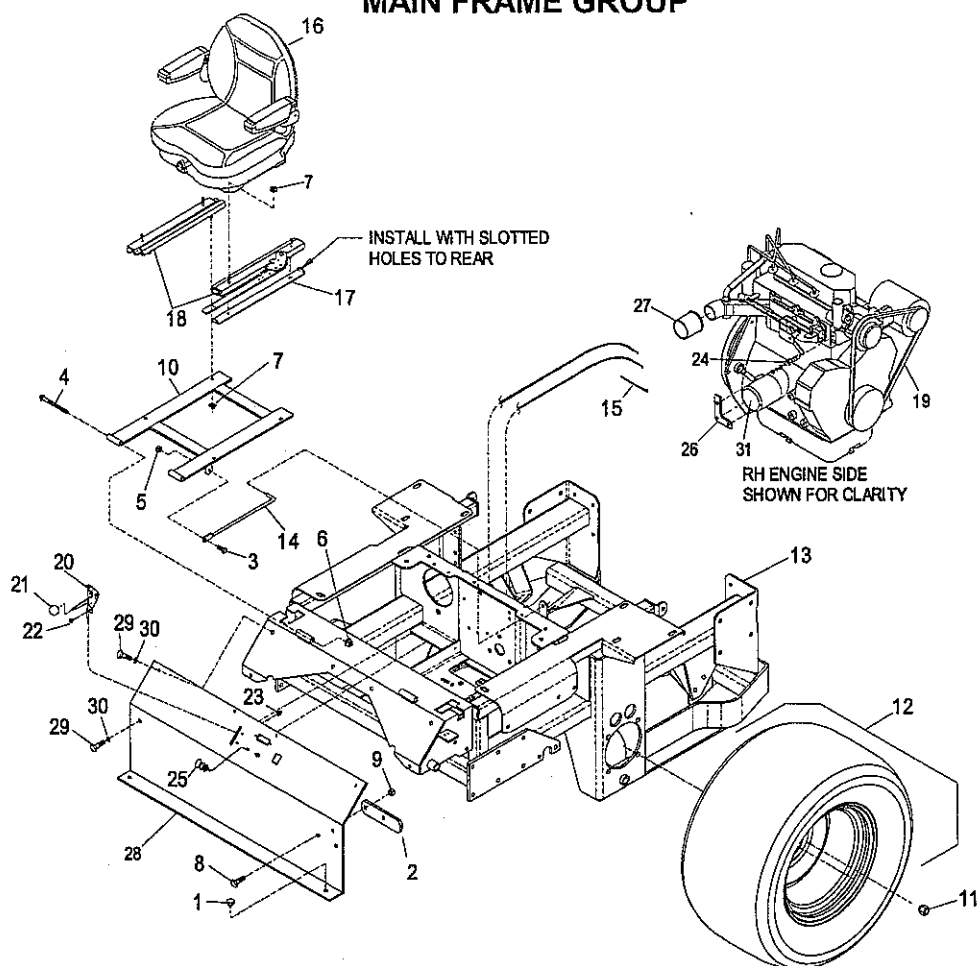
◇ Component required for Caster assembly "A" only.

★ Component required for Caster assembly "B" only.

# FRONT FRAME GROUP



## MAIN FRAME GROUP



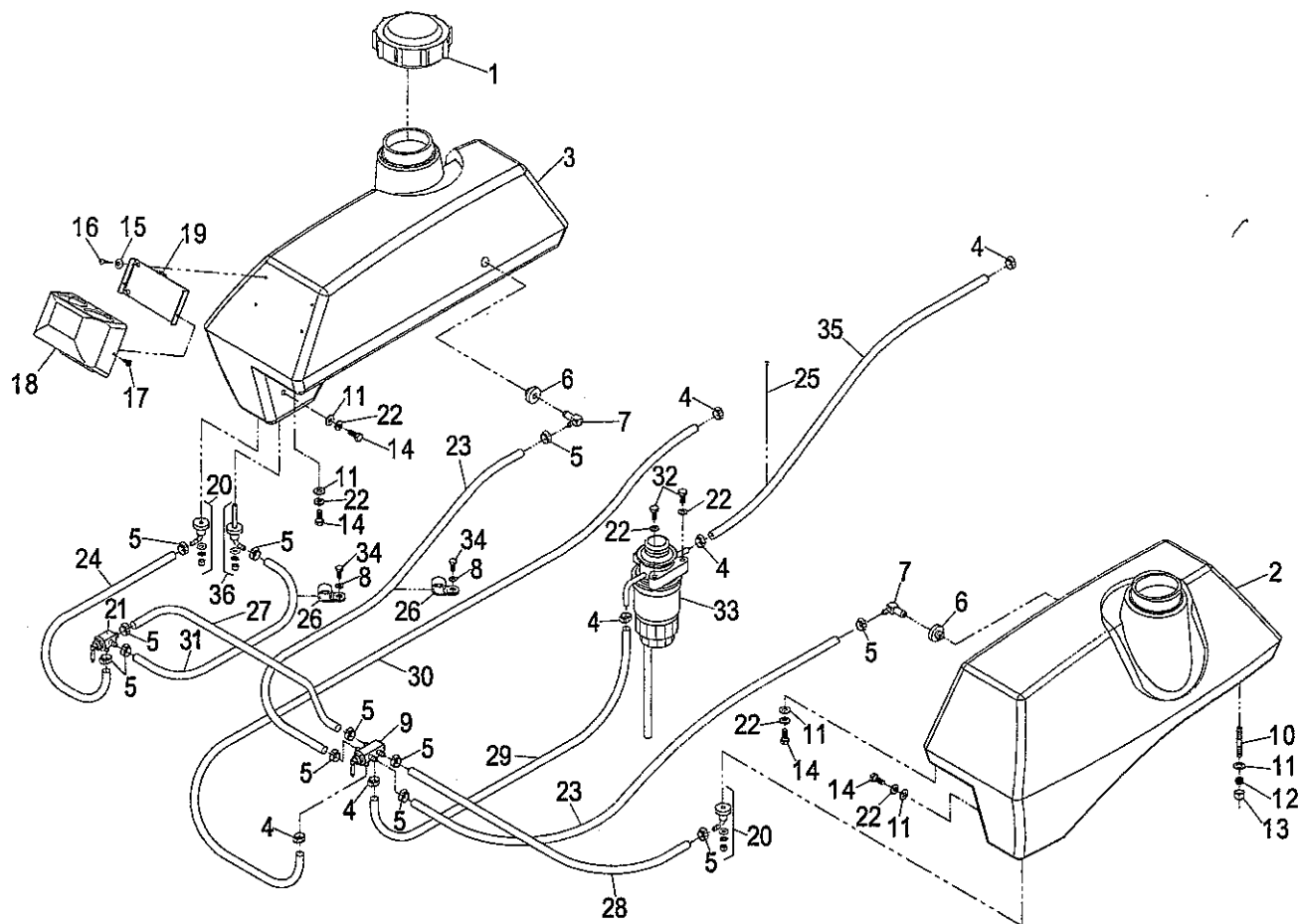
| Ref. No. | Part No.    | Description                                  | Qty. Req'd. | Ref. No.                                  | Part No.                                     | Description                       | Qty. Req'd. |
|----------|-------------|----------------------------------------------|-------------|-------------------------------------------|----------------------------------------------|-----------------------------------|-------------|
| 1        | 1-513658    | Bumper .....                                 | 2           |                                           | 1-631842                                     | Kit, Armrest Pad w/hardware       | 1           |
| 2        | 1-633964-03 | Stop, Park Brake.....                        | 1           |                                           | 1-631846                                     | Kit, Damper w/hardware.....       | 1           |
| 3        | 322-5       | Screw, 5/16-18 x 1 .....                     | 1           |                                           | 1-631847                                     | Kit, Rollers,bumpers&hardware ..  | 1           |
| 4        | 323-39      | Screw, 3/8-16 x 5 .....                      | 2           |                                           | 1-631848                                     | Kit, Spring,Cable & hardware      | 1           |
| 5        | 3296-29     | Nut, nyloc 5/16-18.....                      | 1           |                                           | 1-631849                                     | Kit, Knob,Shaft & hardware...     | 1           |
| 6        | 3296-39     | Nut, nyloc 3/8-16.....                       | 2           |                                           | 1-643281                                     | Switch, Seat .....                | 1           |
| 7        | 32128-20    | Nut, whizlock 5/16-18 .....                  | 8           | 17                                        | 1-633872-03                                  | Stop, seat .....                  | 2           |
| 8        | 323-6       | Screw, 3/8-16 x 1 .....                      | 2           | 18                                        | 1-643255                                     | Track, seat.....                  | 1           |
| 9        | 3290-357    | Nut, whizlock 3/8-16 .....                   | 2           | 19                                        | Briggs & Stratton P/N 820271 Engine V-belt   | 1                                 |             |
| 10       | 1-632187-03 | Frame, seat mount.....                       | 1           | 20                                        | 103-1450                                     | Cable, throttle .....             | 1           |
| 11       | 242-50      | Nut, wheel 1/2-20 .....                      | 8           | 21                                        | 1-513592                                     | Ball, (red) throttle cable .....  | 1           |
| 12       | 103-2743    | Wheel/tire assy. ....                        | 2           | 22                                        | 1-807513                                     | Screw, carr #10-24 .....          | 1           |
|          | 103-2744    | Tire, 24x12-12 4 ply .....                   | 2           | 23                                        | 3296-2                                       | Nut, nylock #10-24.....           | 2           |
|          | 1-633992    | Wheel .....                                  | 2           | 24▽                                       | 103-0949                                     | Sender, temperature 1/8 NPT       | 1           |
| 13       | 103-3344    | Asm, engine deck (103-0073-03) w/decals..... | 1           | 25                                        | 103-1449                                     | Cable, choke (gas) .....          | 1           |
| 14       | 103-1408    | Rod, seat hold-up .....                      | 1           | 26                                        | 103-1409-03                                  | Spacer, rear engine RH (gas)      | 1           |
| 15       | 1-303335    | Tie, Plastic (large).....                    | 1           | 27                                        | 103-1451                                     | Bushing, intake manifold (gas)    | 1           |
| 16       | 1-633821    | Seat, suspension .....                       | 1           | 28                                        | 103-3337                                     | Asm, console(103-1354-03)w/decals | 1           |
|          | 1-631845    | Kit, Pan w/seat & back .....                 | 1           | 29                                        | 322-3                                        | Screw, 5/16-18 x 3/4 .....        | 6           |
|          | 1-631844    | Kit, Armrest Assy.....                       | 1           | 30                                        | 3256-23                                      | Washer, 5/16 SAE .....            | 6           |
|          | 1-631843    | Kit, Boot, upper & lower wire.               | 1           | 31✕                                       | Briggs & Stratton P/N 820314 Oil Filter..... | 1                                 |             |
|          |             |                                              |             | Note: Do Not Use Briggs & Stratton 491056 |                                              |                                   |             |

Exmark black touch up spray paint – gloss black

✕ Refer to Engine Owner's Manual.

▽ Use Teflon pipe sealant on pipe threads on temperature sending unit.

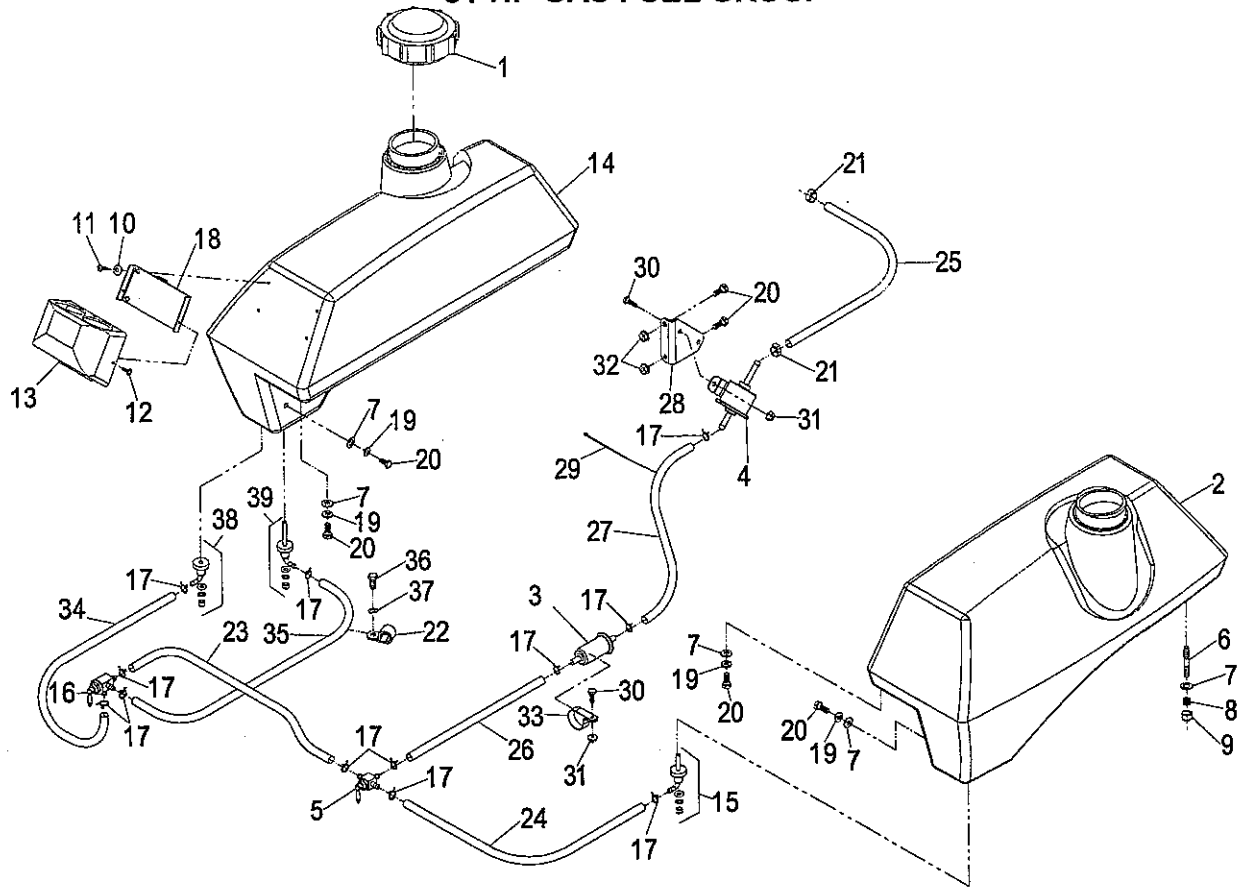
## 27 HP DIESEL FUEL GROUP



| Ref. No. | Part No.    | Description                   | Qty. Req'd. | Ref. No. | Part No.                                 | Description                      | Qty. Req'd. |
|----------|-------------|-------------------------------|-------------|----------|------------------------------------------|----------------------------------|-------------|
| 1        | 103-2108    | Cap, diesel fuel tank.....    | 2           | 20★      | 103-2615                                 | Fitting, fuel bulkhead .....     | 2           |
| 2*       | 103-2144    | Tank, fuel (LH) .....         | 1           |          | 103-2784                                 | O-ring.....                      | 1           |
| 3*       | 103-2145    | Tank, fuel w/ reserve (RH) .  | 1           | 21       | 103-1379                                 | Valve, fuel reserve.....         | 1           |
| 4▲       | 1-643277    | Clamp, .31 I.D. fuel hose.... | 6           | 22       | 1-805005                                 | Washer, lock 5/16 .....          | 6           |
| 5▲       | 1-643293    | Clamp, .25 I.D. fuel hose.... | 12          | 23       | 1-633348                                 | Hose, fuel .25 x 36.25 .....     | 2           |
| 6        | 1-513645    | Bushing, fuel valve .....     | 2           | 24       | 1-543456                                 | Hose, fuel .25 x 22.0 .....      | 1           |
| 7        | 1-643172    | Elbow, 90° .....              | 2           | 25       | 1-303335                                 | Plastic Tie .....                | 1           |
| 8        | 1-805004    | Washer, lock 1/4 .....        | 2           | 26       | 1-513762                                 | Clip, loom .50.....              | 2           |
| 9        | 1-643234    | Valve, fuel dual flow .....   | 1           | 27       | 1-303306                                 | Hose, fuel .25 x 10.5 .....      | 1           |
| 10◆      | 1-633023    | Stud, fuel tank .....         | 6           | 28       | 1-303472                                 | Hose, fuel .25 x 19.0 .....      | 1           |
| 11       | 3256-23     | Washer, flat SAE 5/16 .....   | 10          | 29       | 103-1335                                 | Hose, fuel .31 x 16.0 .....      | 1           |
| 12       | 1-633349    | Spring, fuel tank .....       | 6           | 30       | 103-1428                                 | Hose, fuel .31 x 47.0 .....      | 1           |
| 13       | 3296-47     | Nut, thin nyloc 5/16-18 ..... | 6           | 31       | 1-543526                                 | Hose, fuel .25 x 24.0 .....      | 1           |
| 14       | 322-3       | Screw, 5/16-18 x 3/4 .....    | 4           | 32       | 33114-020                                | Screw, M8-1.25 x 20mm ...        | 2           |
| 15       | 1-303435    | Washer, disc spring 1/4 ..... | 4           | 33✕      | Briggs & Stratton P/N 820311 fuel filter |                                  | 1           |
| 16▽      | 3290-500    | Screw, Machine 10-24x5/8. .   | 4           | 34       | 321-3                                    | Screw, 1/4-20 x 5/8.....         | 2           |
| 17       | 1-802002    | Screw, thr. cut 10-32x1/2 ... | 3           | 35       | 103-1693                                 | Hose, fuel .31 x 41" .....       | 1           |
| 18       | 1-643013    | Cover, guage.....             | 1           | 36★      | 103-2616                                 | Fitting, fuel bulkhead long..... | 1           |
| 19       | 1-643014-03 | Bracket, guage mount .....    | 1           |          | 103-2784                                 | O-ring.....                      | 1           |

- ◆ Use Prolock, Retaining type (Part No. 1-840023), .5cc tube on stud threads going into the tank.
- ✕ Refer to Engine Owner's Manual.
- ▽ Snug fit only on slotted holes, **Do Not Overtighten**, tank must be able to expand.
- ▲ Clamps require special pliers P/N 1-643394 (Oetiker P/N 14100118 or Kohler P/N 2445505) for installation.
- ★ Use Prolock, Nut type (Part No. 1-840022), .5 ml tube on fuel fitting.
- \* Includes tank, cap, fittings, and studs.

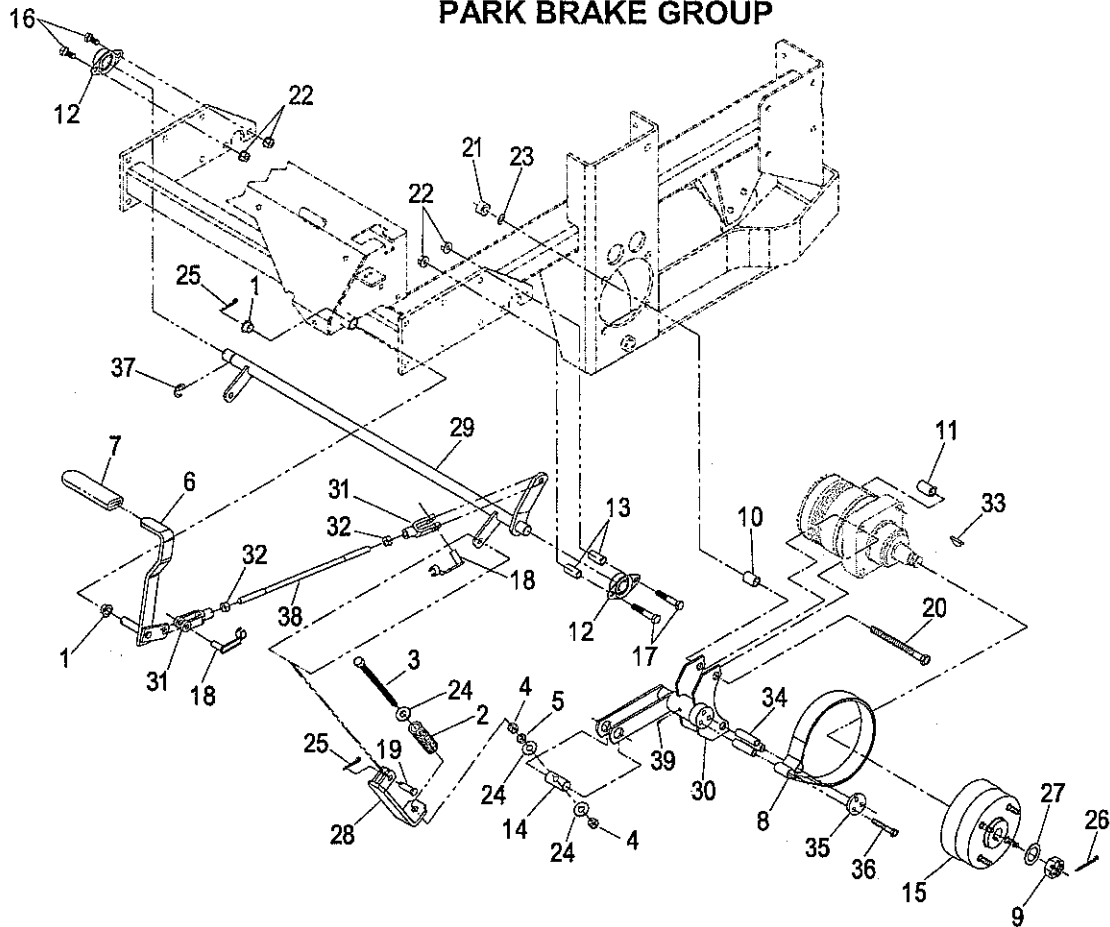
# 31 HP GAS FUEL GROUP



| Ref. No. | Part No.          | Description                         | Qty. Req'd. | Ref. No. | Part No.    | Description                       | Qty. Req'd. |
|----------|-------------------|-------------------------------------|-------------|----------|-------------|-----------------------------------|-------------|
| 1        | 103-2107          | Cap, fuel tank.....                 | 2           | 21▲      | 1-643293    | Clamp, .25 I.D. fuel hose ..      | 2           |
| 2*       | 103-2132          | Asm, tank fuel (LH).....            | 1           | 22       | 1-513762    | Clip, Loom .50 .....              | 1           |
| 3▣       | Briggs & Stratton | fuel filter P/N 498688              | 1           | 23       | 1-303306    | Hose, fuel .25 x 10.5 .....       | 1           |
| 4▣       | Briggs & Stratton | fuel pump P/N 825232                | 1           | 24       | 1-303472    | Hose, fuel .25 x 19.0 .....       | 1           |
| 5        | 1-633347          | Valve, fuel .....                   | 1           | 25       | 1-303022    | Hose, fuel .25 x 8.5 .....        | 1           |
| 6♦       | 1-633023          | Stud, fuel tank.....                | 6           | 26       | 1-513581    | Hose, fuel .25 x 18.0 .....       | 1           |
| 7        | 3256-23           | Washer, 5/16 SAE .....              | 10          | 27       | 103-1419    | Hose, fuel .25 x 32.0 .....       | 1           |
| 8        | 1-633349          | Spring, fuel tank.....              | 6           | 28       | 103-1240-03 | Angle, fuel pump mtg .....        | 1           |
| 9        | 3296-47           | Nut, thin nyloc 5/16-18 .....       | 6           | 29       | 1-303335    | Plastic tie .....                 | 1           |
| 10       | 1-303435          | Washer, disc spring 1/4 ....        | 4           | 30       | 321-4       | Screw, 1/4-20 x 3/4.....          | 3           |
| 11▽      | 3290-500          | Screw, Machine 10-24x5/8            | 4           | 31       | 32128-33    | Nut, whizlock 1/4-20 .....        | 3           |
| 12       | 1-802002          | Screw, thd. cut 10-32x1/2 .         | 3           | 32       | 32128-20    | Nut, whizlock 5/16-18 .....       | 2           |
| 13       | 1-643013          | Cover, guages.....                  | 1           | 33       | 103-1435    | Clip, loom 1.69.....              | 1           |
| 14*      | 103-2143          | Asm, tank fuel w/ reserve (RH)...   | 1           | 34       | 1-543456    | Hose, fuel .25 x 22.0 .....       | 1           |
| 15★      | 103-2605          | Fitting, fuel bulkhead w/strainer . | 1           | 35       | 1-543526    | Hose, fuel .25 x 24.0 .....       | 1           |
|          | 103-2784          | O-ring .....                        | 1           | 36       | 321-3       | Screw, 1/4-20 x 5/8.....          | 1           |
| 16       | 103-1379          | Valve, fuel reserve .....           | 1           | 37       | 1-805004    | Washer, lock 1/4 .....            | 1           |
| 17       | 1-303077          | Clamp, fuel line .....              | 12          | 38★      | 103-2615    | Fitting, fuel bulkhead .....      | 1           |
| 18       | 1-643014-03       | Bracket, guage mount. ....          | 1           |          | 103-2784    | O-ring .....                      | 1           |
| 19       | 1-805005          | Washer, disc spring 5/16... 4       |             | 39★      | 103-2616    | Fitting, fuel bulkhead long ..... | 1           |
| 20       | 322-3             | Screw, 5/16-18 x 3/4.....           | 6           |          | 103-2784    | O-ring .....                      | 1           |

- ◆ Use Prolock, Retaining type (Part No. 1-840023), .5cc tube on stud threads going into the tank.
- ▽ Snug fit only on slotted holes, **Do Not Overtighten**, tank must be able to expand.
- ▣ Refer to Engine Owner's Manual.
- ▲ Clamps require special pliers P/N 1-643394 (Oetiker P/N 14100118 or Kohler P/N 2445505) for installation.
- ★ Use Prolock, Nut type (Part No. 1-840022), .5 ml tube on fuel fitting.
- \* Includes tank, cap, fittings, and studs.

# PARK BRAKE GROUP



| Ref. No. | Part No.    | Description                     | Qty. Req'd. | Ref. No. | Part No.    | Description                       | Qty. Req'd. |
|----------|-------------|---------------------------------|-------------|----------|-------------|-----------------------------------|-------------|
| 1        | 1-513140    | Bushing.....                    | 2           | 20       | 325-17      | Screw, 1/2-13 x 4 (60").....      | 8           |
| 2        | 1-633454    | Spring, brake rod .....         | 2           |          | 325-20      | Screw, 1/2-13 x 6 (72").....      | 8           |
| 3        | 323-58      | Bolt, Tap 3/8-16 x 6 .....      | 2           | 21       | 103-0131    | Nut, sq reg 1/2-13 UNC-2B .....   | 8           |
| 4        | 3296-39     | Nut, nyloc 3/8-16.....          | 4           | 22       | 3290-357    | Nut, whizlock 3/8-16 .....        | 4           |
| 5        | 3218-3      | Nut, Jam 3/8-16 .....           | 2           | 23       | 3253-7      | Washer, lock 1/2 .....            | 8           |
| 6        | 103-0197    | Lever w/grip .....              | 1           | 24       | 3256-4      | Washer, 3/8 std .....             | 6           |
|          | 103-0201-03 | Lever, brake .....              | 1           | 25       | 3272-10     | Pin, cotter 1/8 x 3/4 .....       | 3           |
| 7        | 1-633268    | Grip, brake lever .....         | 1           | 26       | 1-806800    | Pin, cotter 9/64 x 1 1/2 .....    | 2           |
| 8        | 103-0355    | Band, Brake .....               | 2           | 27       | 1-523157    | Washer, spacer.....               | 2           |
| 9        | 1-809036    | Nut, slotted 1.00-20 .....      | 2           | 28       | 103-1117-03 | Lower brake linkage.....          | 2           |
| 10       | 1-633380    | Spacer (short)(60") .....       | 4           | 29       | 103-0198-03 | Brake shaft .....                 | 1           |
|          | 1-633060    | Spacer (short)(72") .....       | 4           | 30       | 103-0810-03 | Bracket, brake (72") .....        | 2           |
| 11       | 1-633382    | Spacer (long)(60").....         | 4           |          | 103-0844-03 | Bracket, brake (60") .....        | 2           |
|          | 1-633062    | Spacer (long)(72").....         | 4           | 31       | 1-633131    | Yoke .....                        | 2           |
| 12       | 1-633102    | Bearing, flange.....            | 2           | 32       | 3219-3      | Nut, 3/8-24 .....                 | 2           |
| 13       | 103-0051    | Spacer, brake retainer .....    | 2           | 33       | 3257-42     | Woodruff key, 5/16 x 1 .....      | 2           |
| 14       | 1-633144    | Pin, trunion.....               | 2           | 34       | 103-0384    | Spacer .....                      | 6           |
| 15       | 103-0590    | Hub & drum w/studs, wheel ..... | 2           | 35       | 103-0374    | Retainer, Brake Band .....        | 2           |
| ♦        | 1-633926    | Studs, wheel .....              | 8           | 36       | 322-9       | Screw, HH .312-18x1.75 ....       | 6           |
| 16       | 323-4       | Screw, 3/8-16 x 3/4 .....       | 2           | 37       | 32151-48    | E-Ring, retaining.....            | 1           |
| 17       | 323-10      | Screw, 3/8-16 x 2 .....         | 2           | 38       | 103-1708    | Rod, brake.....                   | 1           |
| 18       | 103-2399    | Pin, clevis spring 3/8.....     | 2           | 39       | 1481        | Zerk, 1/4-28 45° (60") .....      | 2           |
| 19       | 1-808284    | Pin, clevis 3/8 x 1 .....       | 2           |          | 302-19      | Zerk, 1/4-28 straight (72") ..... | 2           |

♦ Not Illustrated

Exmark black touch up spray paint - gloss black

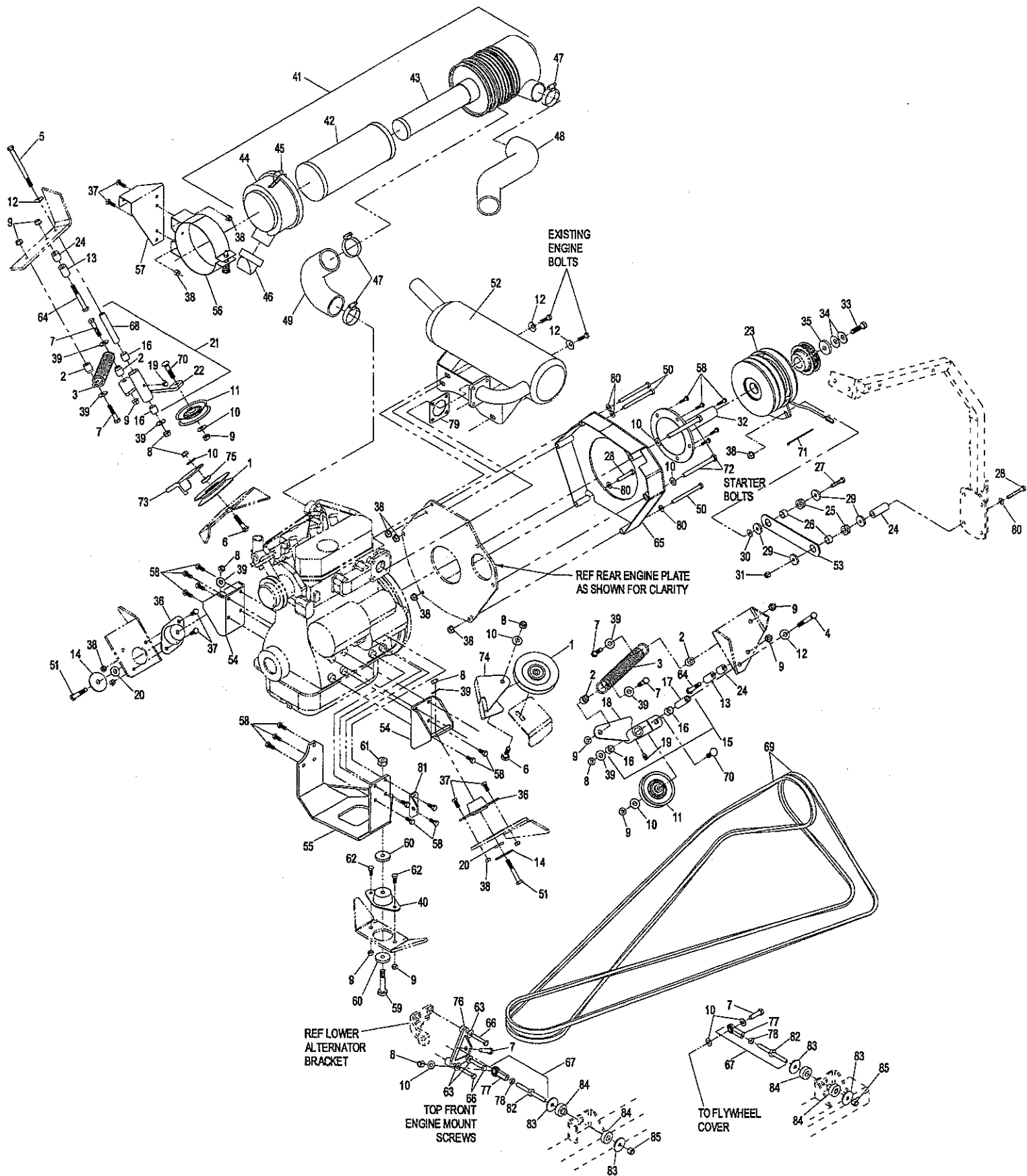
# COMMON ENGINE DECK GROUP

| Ref No. | Part No.    | Description                     | Qty. Req'd. | Ref No. | Part No.    | Description                     | Qty. Req'd. |
|---------|-------------|---------------------------------|-------------|---------|-------------|---------------------------------|-------------|
| 1       | 103-0984    | Sheave, Stationary idler ....   | 2           | 44      | 103-1060    | Cover, Air filter w/latch ..... | 1           |
| 2       | 103-1503    | Spacer, Belt tightener .....    | 4           | 45      | 1-643283    | Latch, Air cleaner .....        | 1           |
| 3       | 103-1767    | Spring, Belt tightener .....    | 2           | 46      | 87-9400     | Valve, Vacuator .....           | 1           |
| 4       | 323-16      | Screw, 3/8-16 x 4 .....         | 1           | 47      | 2412-42     | Clamp, Air cleaner hose ...     | 3           |
| 5       | 323-23      | Screw, 3/8-16 x 4 1/2 .....     | 1           | 48      | 103-0920    | Hose, Plenum to air cleaner 1   | 1           |
| 6       | 3231-40     | Bolt, Carr 3/8-16 x 2 1/4....   | 2           | 49      | 103-0921    | Hose, Air cleaner to engine 1   | 1           |
| 7▽      | 323-8       | Screw, 3/8-16 x 1 1/2 .....     | 6           | 50      | 322-14      | Screw, 5/16-18 x 3 .....        | 3           |
| 8       | 3296-39     | Nut, nylock 3/8-16 .....        | 7           | 51      | 323-12      | Screw, 3/8-16 x 2 1/2 .....     | 2           |
| 9       | 3290-357    | Nut, whizlock 3/8-16 .....      | 9           | 52      | 103-2592    | Kit, Muffler .....              | 1           |
| 10      | 3256-24     | Washer, flat SAE 3/8 .....      | 7           | 53      | 103-0192-03 | Strap, Clutch/brake .....       | 1           |
| 11      | 103-0983    | Sheave, tightener .....         | 2           | 54      | 103-0839-03 | Mount, Engine LH & RH ...       | 2           |
| 12      | 98-5975     | Washer, 3/8 disc spring ....    | 4           | 55      | 103-0870-03 | Mount, Rear engine .....        | 1           |
| 13      | 103-1361    | Spacer, stop bolt .....         | 2           | 56      | 103-1058    | Bracket, Air filter .....       | 1           |
| 14      | 83-1040     | Washer, Side mnt fail-safe 2    | 2           | 57      | 103-0953-03 | Mount, Air filter .....         | 1           |
| 15      | 103-4178    | Asm, Tightener w/bshgs LH 1     | 1           | 58▽     | 33114-020   | Screw, M8-1.25 x 20mm... 18     | 18          |
| 16      | 1-513034    | Bearing, Sleeve .....           | 4           | 59      | 325-10      | Screw, 1/2-13 x 2 1/2 .....     | 1           |
| 17      | 103-0919    | Bushing, Tightener pivot LH 1   | 1           | 60      | 86-1990     | Washer, Thrust .....            | 2           |
| 18      | 103-4165-03 | Asm, Tightener LH .....         | 1           | 61      | 3296-23     | Nut, Nyloc 1/2-13 .....         | 1           |
| 19      | 302-40      | Zerk, 1/4-20 90° .....          | 2           | 62      | 323-5       | Screw, 3/8-16 x 7/8 .....       | 2           |
| 20      | 66-6480     | Washer, Side mnt spacer .       | 2           | 63      | 1-303334    | Washer, 5/16 disc spring ..     | 3           |
| 21      | 103-0986    | Asm, Tightener w/bshgs RH 1     | 1           | 64      | 323-13      | Screw, 3/8-16 x 2 3/4 .....     | 2           |
| 22      | 103-0204-03 | Asm, Tightener RH .....         | 1           | 65      | 103-3573-03 | Wld, flywheel cover .....       | 1           |
| 23      | 103-0083    | Asm, Clutch w/tie Warner .      | 1           | 66      | 33114-045   | Screw, M8-1.25 x 45mm... 3      | 3           |
| 24      | 103-0193    | Spacer, Clutch strap .....      | 3           | 67      | 103-3745    | Asm, A-T Link .....             | 2           |
| 25      | 1-633630    | Grommet .....                   | 2           | 68      | 103-0040    | Bushing, Tightener pivot RH 1   | 1           |
| 26      | 1-633545    | Spacer, Grommet .....           | 2           | 69      | 103-0881    | Belt, mule drive .....          | 2           |
| 27      | 322-6       | Screw, 5/16-18 x 1 1/4 .....    | 1           | 70      | 3231-4      | Bolt, Carr 3/8 x 1 1/2 .....    | 2           |
| 28      | 322-12      | Screw, 5/16-18 x 2 1/2 .....    | 2           | 71      | 1-303335    | Tie, plastic .....              | 2           |
| 29      | 1-613235    | Washer .....                    | 4           | 72      | 56-2150     | Screw, M10-1.25 x 80mm. 2       | 2           |
| 30      | 3256-3      | Washer, Flat std 5/16 .....     | 1           | 73      | 103-4039-03 | Wld, XP RH Sheave Guard 1       | 1           |
| 31      | 3296-29     | Nut, Nyloc 5/16-18 .....        | 1           | 74      | 103-4011-03 | Wld, XP LH Sheave Guard 1       | 1           |
| 32      | 103-0286    | Shaft, Engine stub .....        | 1           | 75      | 103-3186    | Spacer, RH Sheave Guard 1       | 1           |
| 33      | 3212-6      | Screw, 7/16-20 x 1 1/2 .....    | 1           | 76      | 103-3556-03 | Wld, Front A-T Eng Brkt ...     | 1           |
| 34      | 1-603610    | Washer, Spring disc 7/16 .      | 2           | 77      | 103-0608    | Rod End, 3/8-24 Female... 2     | 2           |
| 35      | 1-543610    | Washer, Clutch .....            | 1           | 78      | 3220-3      | Nut, 3/8-24 Jam .....           | 2           |
| 36      | 103-2613    | Isolator, LH/RH .....           | 2           | 79      | 103-1385    | Gasket, Muffler .....           | 1           |
| 37      | 322-3       | Screw, 5/16-18 x 3/4 .....      | 6           | 80      | 3256-23     | Washer, Flat SAE 5/16 .....     | 4           |
| 38      | 32128-20    | Nut, Whizlock 5/16-18 .....     | 11          | 81      | 103-3908    | Bracket, Ground .....           | 1           |
| 39      | 3256-4      | Washer, Flat std 3/8 .....      | 8           | 82      | 103-3567    | Link, A-T .....                 | 2           |
| 40      | 103-1022    | Isolator, Rear .....            | 1           | 83      | 93-6099     | Washer, 3/8 ID x 1.5 OD ..      | 4           |
| 41      | 103-1057    | Asm, 5" canister air filter ... | 1           | 84      | 103-3568    | Isolator, A-T Link .....        | 2           |
| 42      | 103-1327    | Filter, Air .....               | 1           | 85      | 3296-6      | Nut, Nyloc 3/8-24 .....         | 2           |
| 43      | 103-1326    | Filter, Safety air .....        | 1           |         |             |                                 |             |

Exmark black touch up spray paint – gloss black

▽ Use Prolock, Nut type (Part No. 1-840022) on screws threaded into block, and rear A-T link to Rear Engine Bracket screw.

# COMMON ENGINE DECK GROUP



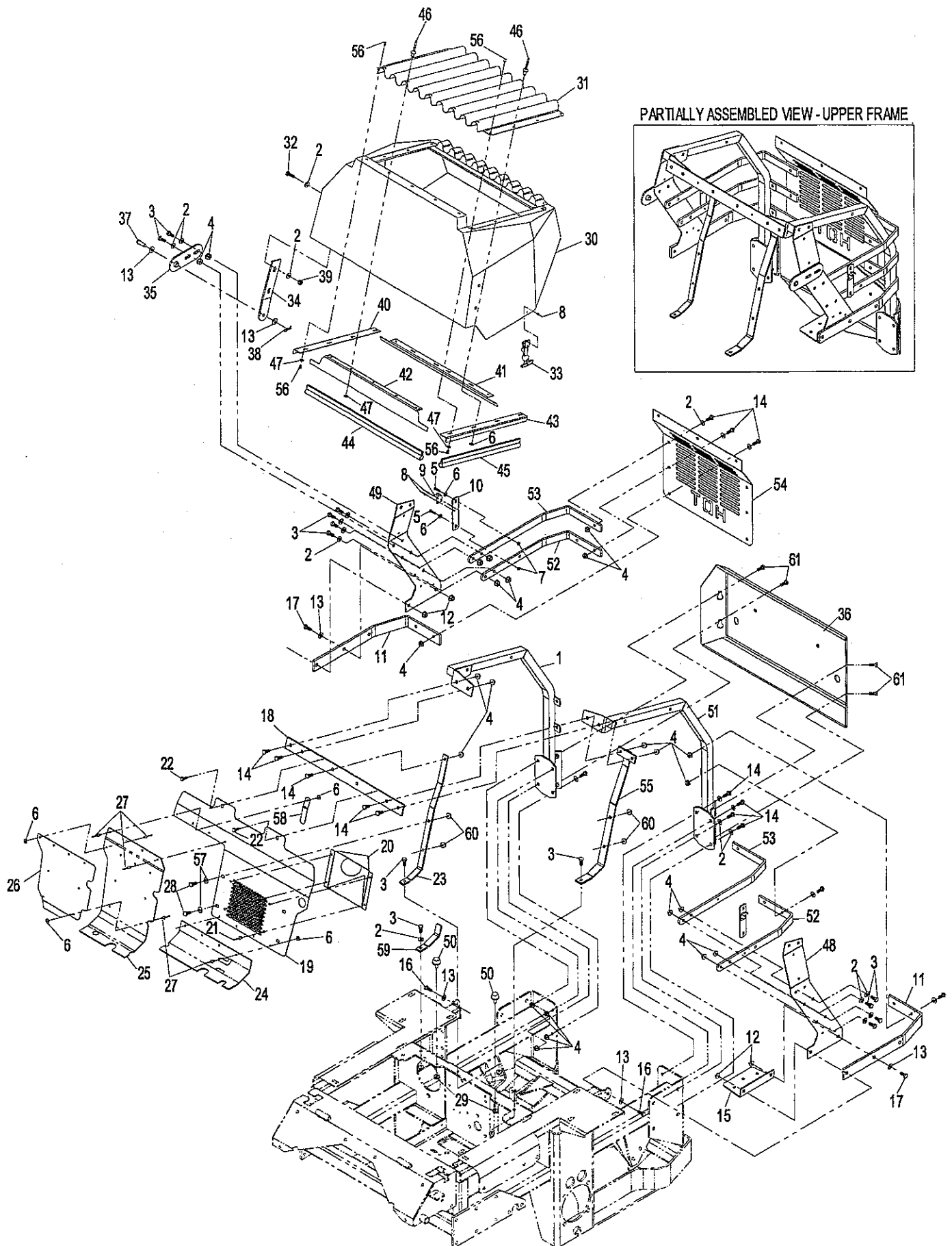
## UPPER FRAME GROUP

| Ref. No. | Part No.    | Description                                        | Qty. Req'd. | Ref. No. | Part No.    | Description                    | Qty. Req'd. |
|----------|-------------|----------------------------------------------------|-------------|----------|-------------|--------------------------------|-------------|
| 1        | 103-0146-03 | Frame, Rear upper RH .....                         | 1           | 31       | 1-633864-03 | Screen, Radiator .....         | 1           |
| 2        | 3256-23     | Washer, Flat SAE 5/16 .....                        | 42          | 32       | 322-4       | Screw, 5/16-18 x 7/8 .....     | 4           |
| 3        | 322-3       | Screw, 5/16-18 x 3/4 .....                         | 19          | 33       | 1-643188    | Latch, EPDM Rubber .....       | 2           |
| 4        | 32128-20    | Nut, Whizlock 5/16-18 .....                        | 41          | 34       | 1-633885-03 | Plate, Hood Hinge .....        | 2           |
| 5        | 1-803075    | Screw, 10-24x3/4 crosstruss                        | 4           | 35       | 1-632986-03 | Shackle, Hood Hinge .....      | 2           |
| 6        | 3256-14     | Washer, Flat std #10 .....                         | 27          | 36       | 103-1479-03 | Bumper, Rear .....             | 1           |
| 7        | 3296-2      | Nut, Nyloc #10-24 .....                            | 4           | 37       | 1-808285    | Pin, Clevis 3/8 x 1 1/8 .....  | 2           |
| 8        | 923786      | Pop Rivet .....                                    | 8           | 38       | 1-806003    | Pin, Hair Cotter .080 #2 ..... | 2           |
| 9        | 1-643189    | Keeper, Rubber Latch .....                         | 2           | 39       | 3296-29     | Nut, Nyloc 5/16-18 .....       | 4           |
| 10       | 1-633877-03 | Bar, Latch Hook .....                              | 2           | 40       | 1-643106-03 | Angle, Rad. Trim Side RH ....  | 1           |
| 11       | 103-0941-03 | Bar, Rad. mounting frame.                          | 2           | 41       | 1-643108-03 | Angle, Rad. Trim Bottom .....  | 1           |
| 12       | 3290-357    | Nut, Whizlock 3/8-16 .....                         | 4           | 42       | 1-643107-03 | Angle, Rad. Trim Top .....     | 1           |
| 13       | 3256-24     | Washer, Flat SAE 3/8 .....                         | 4           | 43       | 1-643105-03 | Angle, Rad. Trim Side LH ..... | 1           |
| 14       | 322-5       | Screw, 5/16-18 x 1 .....                           | 21          | 44       | 1-643187    | Seal, Trim 20" .....           | 2           |
| 15       | 103-2603-03 | Bracket, Bottle .....                              | 1           | 45       | 1-643186    | Seal, Trim 14" .....           | 2           |
| 16       | 323-7       | Screw, 3/8-16 x 1 1/4 .....                        | 2           | 46       | 1-803072    | Rivet, Bulbex .19 x 1.07 ..... | 15          |
| 17       | 323-6       | Screw, 3/8-16 x 1 .....                            | 2           | 47       | 1-303435    | Washer, Spring Disc .25 .....  | 7           |
| 18       | 103-0963-03 | Bar, Radiator rear mount ..                        | 1           | 48       | 103-0954-03 | Mount, side LH .....           | 1           |
| 19       | 103-3345    | Asm, Air deflector<br>(103-0951-03) w/decals ..... | 1           | 49       | 103-0955-03 | Mount, side RH .....           | 1           |
| 20       | 103-0964-03 | Plenum, Air intake .....                           | 1           | 50       | 1-523420    | Bumper, Rubber .....           | 2           |
| 21       | 3269-3      | Pop Rivet .....                                    | 4           | 51       | 103-0145-03 | Frame, Rear upper LH .....     | 1           |
| 22       | 49-2040     | Screw, Tapping 1/4-20x3/4                          | 2           | 52       | 103-0942-03 | Rib, Bottom .....              | 2           |
| 23       | 103-0945-03 | Brace, Radiator RH .....                           | 1           | 53       | 103-0943-03 | Rib, Top .....                 | 2           |
| 24       | 103-1001    | Shield, Engine .....                               | 1           | 54       | 103-0939-03 | Guard, Muffler .....           | 3           |
| 25       | 103-1002    | Shield, Air cleaner .....                          | 1           | 55       | 103-0094-03 | Brace, Rad. & mtg bar .....    | 1           |
| 26       | 103-1003-03 | Plate, Shield lift .....                           | 1           | 56       | 103-1363    | Rivet, 1/4 ratchet .....       | 4           |
| 27       | 1-803035    | Rivet, Pop 3/16x1/4 alum ..                        | 16          | 57       | 3256-22     | Washer, flat SAE 1/4 .....     | 4           |
| 28       | 321-4       | Screw, 1/4-20 x 3/4 .....                          | 4           | 58       | 1-523285    | Clip, Baffle .....             | 1           |
| 29       | 3296-42     | Nut, Nyloc 1/4-20 .....                            | 2           | 59       | 103-1458-03 | Tab, Air cleaner shield .....  | 1           |
| 30       | 1-633857    | Hood, Engine compartment                           | 1           | 60       | 32128-33    | Nut, whizlock 1/4-20 .....     | 4           |
| ☆        | 103-1044    | Hood, with decals .....                            | 1           | 61       | 3234-47     | Screw, Flange 5/16-18x3/4...   | 4           |

Exmark black touch up spray paint – gloss black

☆ Hood only comes with black logo decal, side decals need to be ordered separately.

# UPPER FRAME GROUP



PARTIALLY ASSEMBLED VIEW - UPPER FRAME

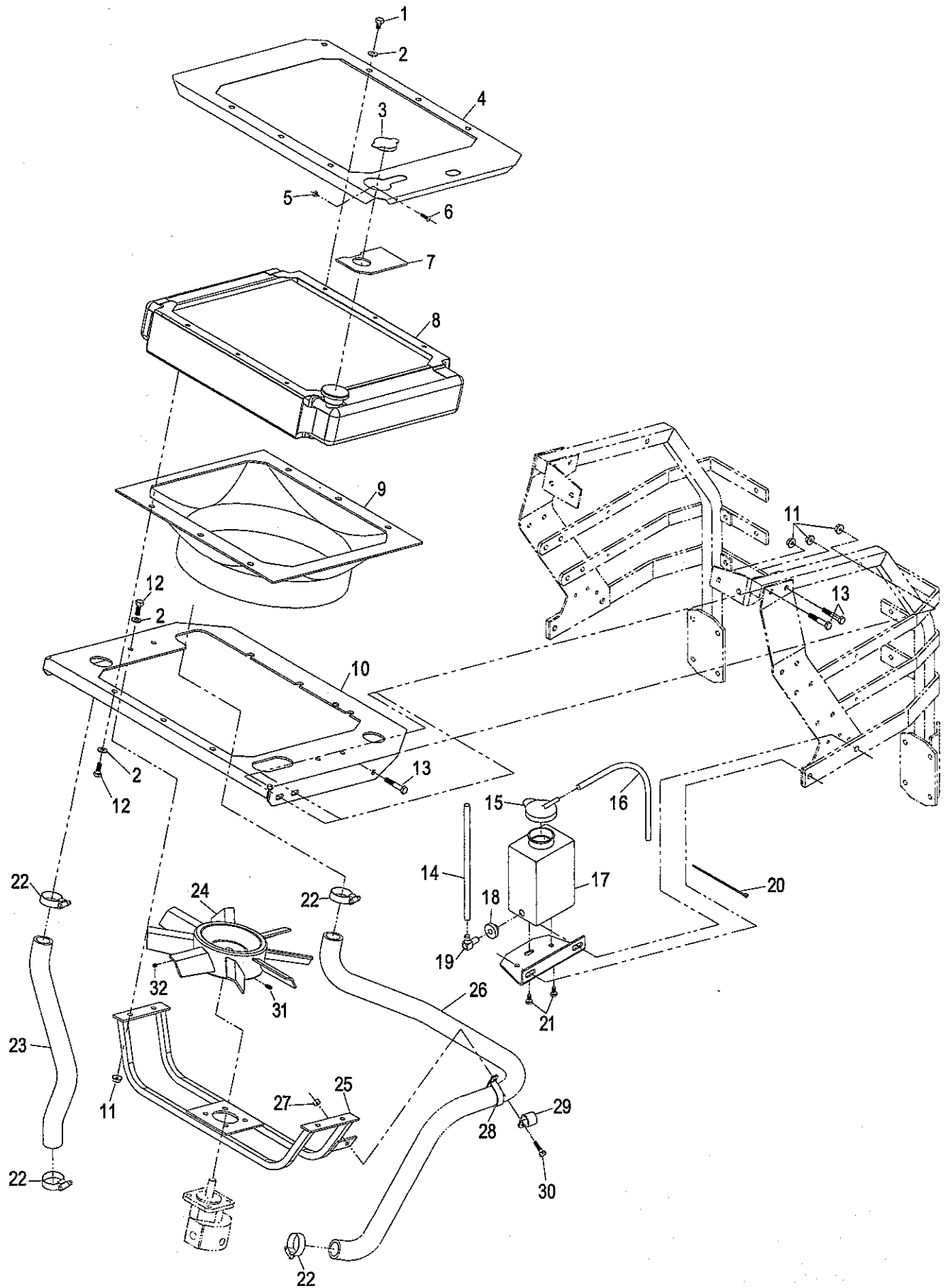
## ENGINE COOLING GROUP

| Ref.<br>No. | Part No. | Description                                         | Qty.<br>Req'd. | Ref.<br>No. | Part No.    | Description                      | Qty.<br>Req'd. |
|-------------|----------|-----------------------------------------------------|----------------|-------------|-------------|----------------------------------|----------------|
| 1           | 322-1    | Screw, 5/16-18 x 1/2.....                           | 6              | 16          | 1-643131    | Hose, 25 ID x 22.00 .....        | 1              |
| 2           | 3256-23  | Washer, flat .....                                  | 12             | 17          | 1-643163    | Tank, overflow .....             | 1              |
| 3           | 1-643161 | Cap, radiator .....                                 | 1              | 18          | 1-513645    | Bushing, valve fuel.....         | 1              |
| 4           | 103-3347 | Asm, radiator top (103-0940-03)<br>w/decals .....   | 1              | 19          | 1-643259    | Fitting, elbow.....              | 1              |
| 5           | 3296-2   | Nut, nyloc #10-24 .....                             | 1              | 20          | 1-303287    | Tie, plastic 5.5 x .044 x .1 ... | 3              |
| 6           | 1-803075 | Screw, #10-24 x .75 crossruss                       | 1              | 21          | 321-2       | Screw, 1/4-20 x 1/2.....         | 2              |
| 7           | 103-1352 | Shield, radiator fill neck .....                    | 1              | 22          | 1-633989    | Clamp, hose.....                 | 4              |
| 8           | 103-0891 | Radiator, IHT #DA12-109001                          | 1              | 23          | 103-2505    | Hose, engine outlet.....         | 1              |
| 9           | 103-0898 | Shroud, engine cooling.....                         | 1              | 24          | 103-0892    | Fan, crowley .....               | 1              |
| 10          | 103-3348 | Asm, radiator bottom<br>(103-0948-03) w/decals .... | 1              | 25          | 103-0086-03 | Wld, fan motor mount.....        | 1              |
| 11          | 32128-20 | Nut, whizlock 5/16-18 .....                         | 10             | 26          | 103-0922    | Hose, engine inlet .....         | 1              |
| 12          | 322-3    | Screw, 5/16-18 x 3/4 .....                          | 10             | 27          | 3296-42     | Nut, nyloc 1/4-20.....           | 1              |
| 13          | 322-9    | Screw, 5/16-18 x 1 3/4.....                         | 6              | 28          | 103-0113    | Clip, loom 1.38.....             | 1              |
| 14          | 103-1445 | Hose, .31 ID x 37.00.....                           | 1              | 29          | 1-513762    | Clip, loom .50.....              | 1              |
| 15          | 1-643164 | Cap, tank overflow.....                             | 1              | 30          | 321-6       | Screw, 1/4-20 x 1.0.....         | 1              |
|             |          |                                                     |                | 31          | 3245-44     | Setscrew 1/4-20 x 3/8.....       | 1              |
|             |          |                                                     |                | 32*         | 909848      | Setscrew, 1/4-20 x 1/4.....      | 1              |

\* Setscrew is installed over keyway.

Exmark black touch up spray paint – gloss black

# ENGINE COOLING GROUP



# HYDRAULIC GROUP

| Ref. No. | Part No.    | Description                         | Qty. Req'd. | Ref. No. | Part No.    | Description                         | Qty. Req'd. |
|----------|-------------|-------------------------------------|-------------|----------|-------------|-------------------------------------|-------------|
| 1        | 103-2978    | Pump, hydro LH.....                 | 1           | 47       | 103-2153    | Elbow,90°3/4JICx3/4O-rg .....       | 2           |
| 2        | 103-2979    | Pump, hydro RH .....                | 1           |          | 1-603992    | O-Ring (37° flare #8) .....         | 1           |
|          | 100-6110    | Kit, seal service 21L.....          | 1           |          | 1-603920    | O-Ring (SAE #8).....                | 1           |
|          | 100-2669    | Kit, input shaft 21L .....          | 1           | 48V      | 103-2154    | Fitting, run tee 3/8" .....         | 1           |
|          | 103-2670    | Kit, thrust bearing 21L.....        | 1           |          | 103-1020    | O-Ring (37° flare #6) .....         | 1           |
|          | 103-2668    | Kit, cylinder block 21L.....        | 1           | 49       | 103-2155    | Elbow,90°9/16JICx9/16O-rg .....     | 1           |
|          | 103-2667    | Kit, valve plate 21L.....           | 1           |          | 103-1020    | O-Ring (37° flare #6) .....         | 1           |
| 3        | 103-2489    | Motor, wheel drive .....            | 2           |          | 1-603921    | O-Ring (SAE #6).....                | 1           |
|          | 1-000099    | Kit, seal.....                      | 1           | 50       | 103-2156    | Fitting, strt9/16JICx9/16O-rg ..... | 1           |
|          | 1-000139    | Kit, bearing .....                  | 1           |          | 103-1020    | O-Ring (37° flare #6) .....         | 1           |
| 4        | 103-0893    | Motor, hydraulic fan .....          | 1           |          | 1-603921    | O-Ring (SAE #6).....                | 1           |
|          | 103-1865    | Kit,seal service (fan motor) .....  | 1           | 51       | 103-2157    | Fitting, strt9/16JICx7/16O-rg.....  | 1           |
| 5        | 103-1325    | Pump, hydraulic fan .....           | 1           |          | 103-1020    | O-Ring (37° flare #6) .....         | 1           |
|          | 103-1866    | Kit,seal service (fan pump) .....   | 1           |          | 1-603923    | O-Ring (SAE #4).....                | 1           |
| 6        | 32128-20    | Nut, whizlock 5/16-18.....          | 10          | 52       | 103-2159    | Fitting, run tee 3/4" .....         | 1           |
| 7        | 103-0049    | Sheave, hydro pump idler .....      | 1           |          | 1-603992    | O-Ring (37° flare #8) .....         | 2           |
| 8        | 323-11      | Screw, 3/8-16 x 2 1/4.....          | 1           |          | 1-603920    | O-Ring (SAE #8).....                | 1           |
| 9        | 3256-24     | Washer, 3/8 SAE .....               | 2           | 53       | 103-2315    | Elbow,90°3/4JICx3/4 Swvl.....       | 1           |
| 10       | 3290-357    | Nut, whizlock 3/8-16 .....          | 8           |          | 1-603992    | O-Ring (37° flare #8) .....         | 1           |
| 11       | 103-1448    | Asm, tightener.....                 | 1           | 54       | 1-603990    | Fitting, strt 3/4JICx3/4O-rg.....   | 5           |
| 12       | 1-323729    | Bearing, sleeve .....               | 2           |          | 1-603992    | O-Ring (37° flare #8) .....         | 1           |
| 13       | 103-1415-03 | Tightener .....                     | 1           |          | 1-603920    | O-Ring (SAE #8).....                | 1           |
| 14       | 93-6099     | Washer, 3/8 x 1.50 O.D. ....        | 1           | 55       | 1-633605    | Elbow, 90° 3/4JICx7/8O-rg .....     | 4           |
| 15       | 323-4       | Screw, 3/8-16 x 3/4.....            | 4           |          | 1-603992    | O-Ring (37° flare #8) .....         | 1           |
| 16       | 103-1338    | Sheave, fan pump driven .....       | 1           |          | 1-603919    | O-Ring (SAE #10).....               | 1           |
| 17       | 103-1478-03 | Tightener, spindle .....            | 1           | 56       | 103-3110    | Filter, Hydraulic inline .....      | 1           |
| 18       | 302-40      | Zerk, 90° 1/4-28.....               | 2           | 57       | 103-2148    | Hose, hi-pressure fan pump .....    | 1           |
| 19       | 13-2840     | Key, square 1/4 x 1 1/4 .....       | 1           | 58       | 1-323241    | Hose, fan motor return .....        | 1           |
| 20       | 103-1339    | Sheave, fan pump drive .....        | 1           | 59       | 103-2172    | Hose, pump case drain.....          | 1           |
| 21       | 103-1422    | Spacer, fan pump drive.....         | 1           | 60       | 103-2173    | Hose, fan case drain.....           | 1           |
| 22       | 323-9       | Screw, 3/8-16 x 1 3/4.....          | 3           | 61       | 103-2174    | Hose, tank return.....              | 1           |
| 23       | 3246-6      | Setscrew, 5/16 x 3/4 .....          | 2           | 62       | 103-1471    | Hub, hydro pump sheave.....         | 2           |
| 24       | 103-1297    | Belt, fan pump drive .....          | 1           | 63       | 103-1472    | Sheave, hydro pump.....             | 2           |
| 25       | 98-5975     | Washer, disc spring 3/8 .....       | 1           | 64       | 1-633167    | Sheave, fan pump idler.....         | 1           |
| 26       | 103-1421    | Hub, engine sheave .....            | 1           | 65       | 323-14      | Screw, 3/8-16 x 3 .....             | 1           |
| 27       | 103-1426    | Sheave, engine.....                 | 1           | 66       | 3296-29     | Nut, Nylloc 5/16-18 .....           | 1           |
| 28       | 103-1459    | Pin, spring roll 1/4 .....          | 1           | 67       | 103-2268    | Asm, filter inlet hose .....        | 1           |
| 29       | 323-6       | Screw, 3/8-16 x 1.....              | 1           | 68       | 1-513034    | Bearing, sleeve.....                | 2           |
| 30       | 3256-23     | Washer, 5/16 SAE .....              | 4           | 69       | 103-3349    | Asm, Idler Arm (103-1417-03)        |             |
| 31       | 33114-020   | Screw, M8-1.25 x 20 .....           | 4           |          |             | w/decals & bearings .....           | 1           |
| 32       | 103-2600    | Belt, hydro pump drive .....        | 1           | 70       | 1-603384    | Bushing, tightener pivot .....      | 1           |
| 33       | 103-0973    | Hose, wheel motor (72") .....       | 4           | 71       | 103-2104    | Clamp,hose .89 max dia .....        | 1           |
|          | 103-0972    | Hose, wheel motor (60") .....       | 4           | 72       | 1-643312    | Clamp, 1.00 .....                   | 1           |
| 34       | 103-2146    | Element, hydraulic oil filter ..... | 1           | 73       | 1-633396    | Clamp, .69.....                     | 2           |
| 35       | 1-513167    | Cap, hydraulic tank .....           | 1           | 74       | 103-3346    | Asm, hydraulic reservoir            |             |
| 36       | 1-523103    | Gasket, tank cap.....               | 1           |          |             | (103-2149-03) w/decals.....         | 1           |
| 37       | 1-803050    | Setscrew, 5/16-18 x 3/4 .....       | 4           | 75       | 322-4       | Screw, 5/16-18 x 7/8.....           | 11          |
| 38       | 103-2739    | Key, 5mm x 5mm x 32mm.....          | 2           | 76       | 103-1299-03 | Plate, fan pump mounting.....       | 1           |
| 39       | 321-3       | Screw, 1/4-20 x 5/8.....            | 2           | 77       | 1-805005    | Lockwasher, 5/16 .....              | 6           |
| 40       | 1-805004    | Lockwasher, 1/4.....                | 2           | 78       | 322-2       | Screw, 5/16-18 x 5/8.....           | 6           |
| 41       | 325-5       | Screw, 1/2-13 x 1 1/4.....          | 4           | 79       | 1-603414    | Spring, fan pump tightener.....     | 1           |
| 42       | 32128-49    | Nut, whizlock 1/2-13.....           | 4           | 80       | 103-1575    | Spacer, fan pump spring.....        | 2           |
| 43V      | 103-1012    | Elbow,90°9/16JICx3/8NPT.....        | 1           | 81       | 3256-4      | Washer, 3/8 std.....                | 3           |
| 44       | 103-1014    | Elbow,90°9/16JICx3/4O-rg.....       | 2           | 82*      | 103-1709    | Asm, charge hose.....               | 1           |
|          | 1-603920    | O-Ring (SAE #8).....                | 1           | 83       | 103-2269    | Asm, pump inlet.....                | 1           |
| 45V      | 103-2151    | Elbow,45°9/16JICx3/8NPT.....        | 1           | 84       | 103-2259    | Filter head .....                   | 1           |
|          | 103-1020    | O-Ring (37° flare #6).....          | 1           | 85       | 103-1767    | Spring, Hydro drive tightener ..... | 1           |
| 46V      | 103-2152    | Elbow,90°1/2T x 1/2NPT.....         | 1           | 86       | 32150-1     | Key, fan pump or motor .....        | 2           |

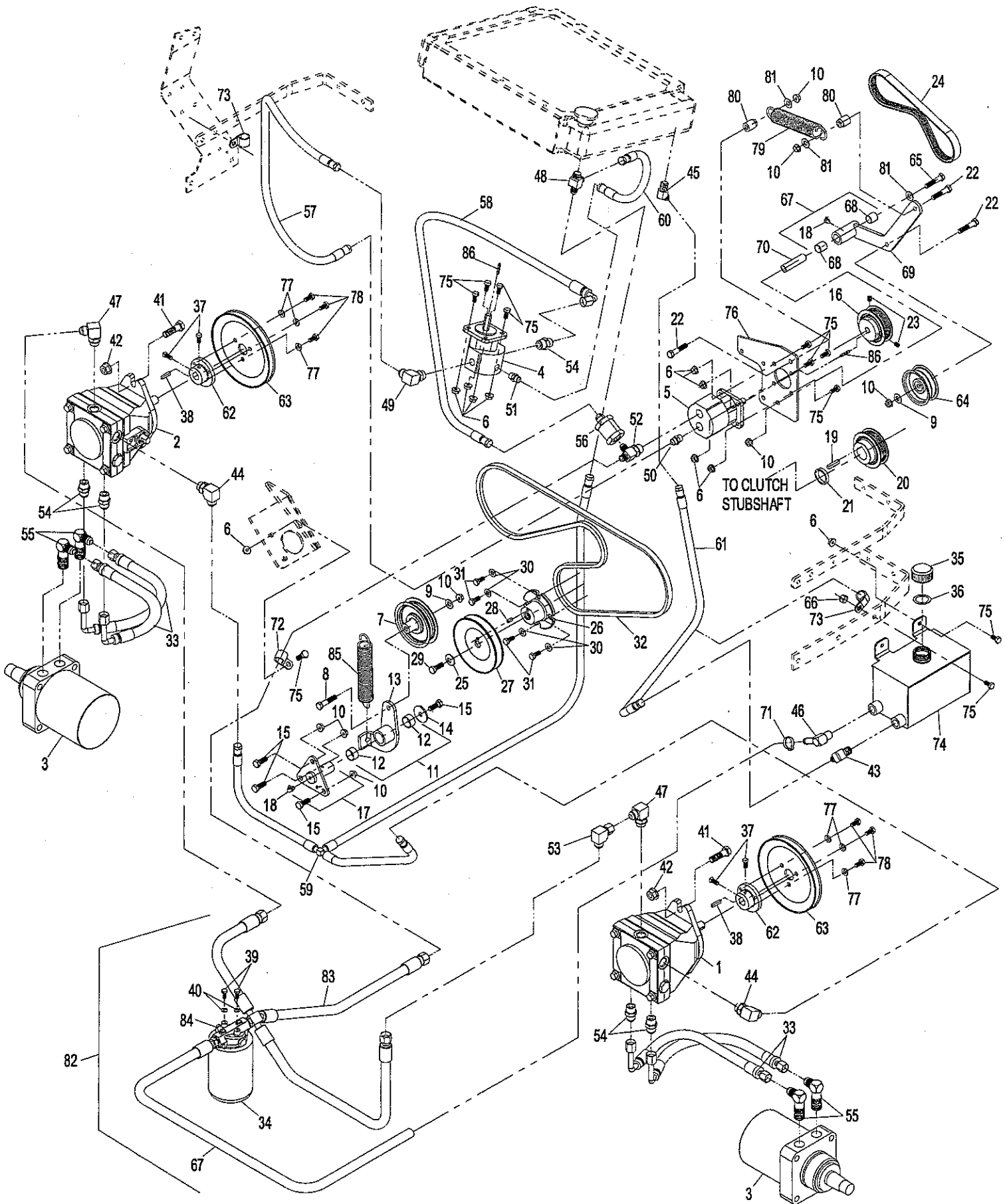
◊ Use Pro-Lock, Nut Type (P/N 1-840022, 5 ml tube) on setscrews.

▽ Use Teflon pipe sealant on pipe threads in reservoir and cooler.

\* Charge hose assembly includes items 67,83, & 84 only.

Exmark black touch up spray paint - gloss black

# HYDRAULIC GROUP

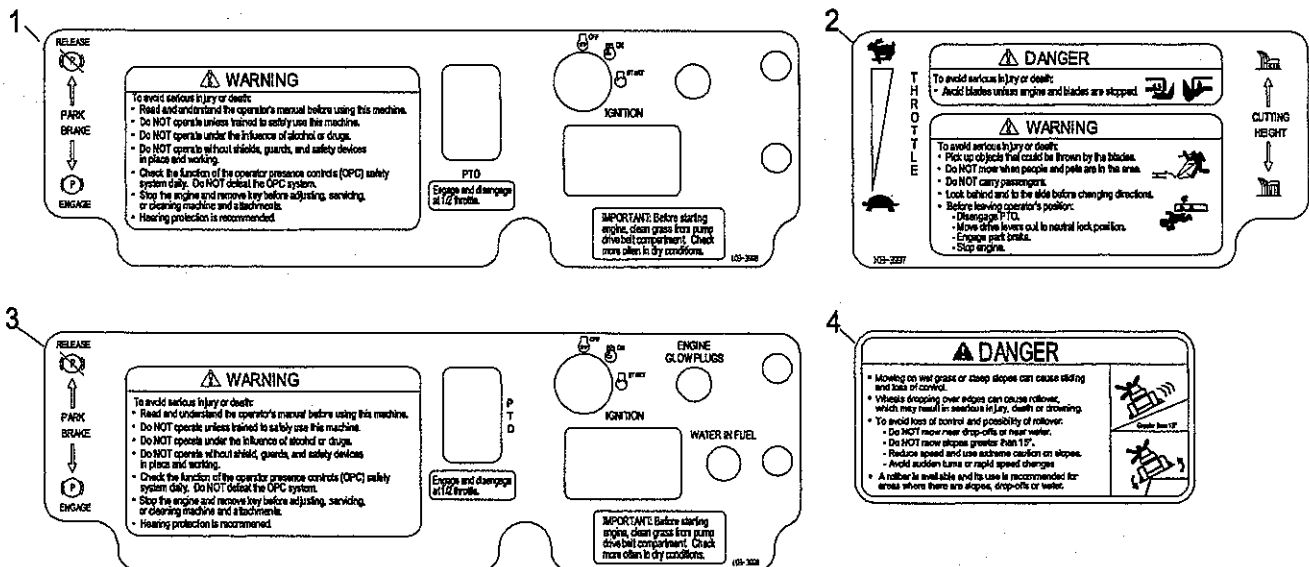


## DECAL GROUP

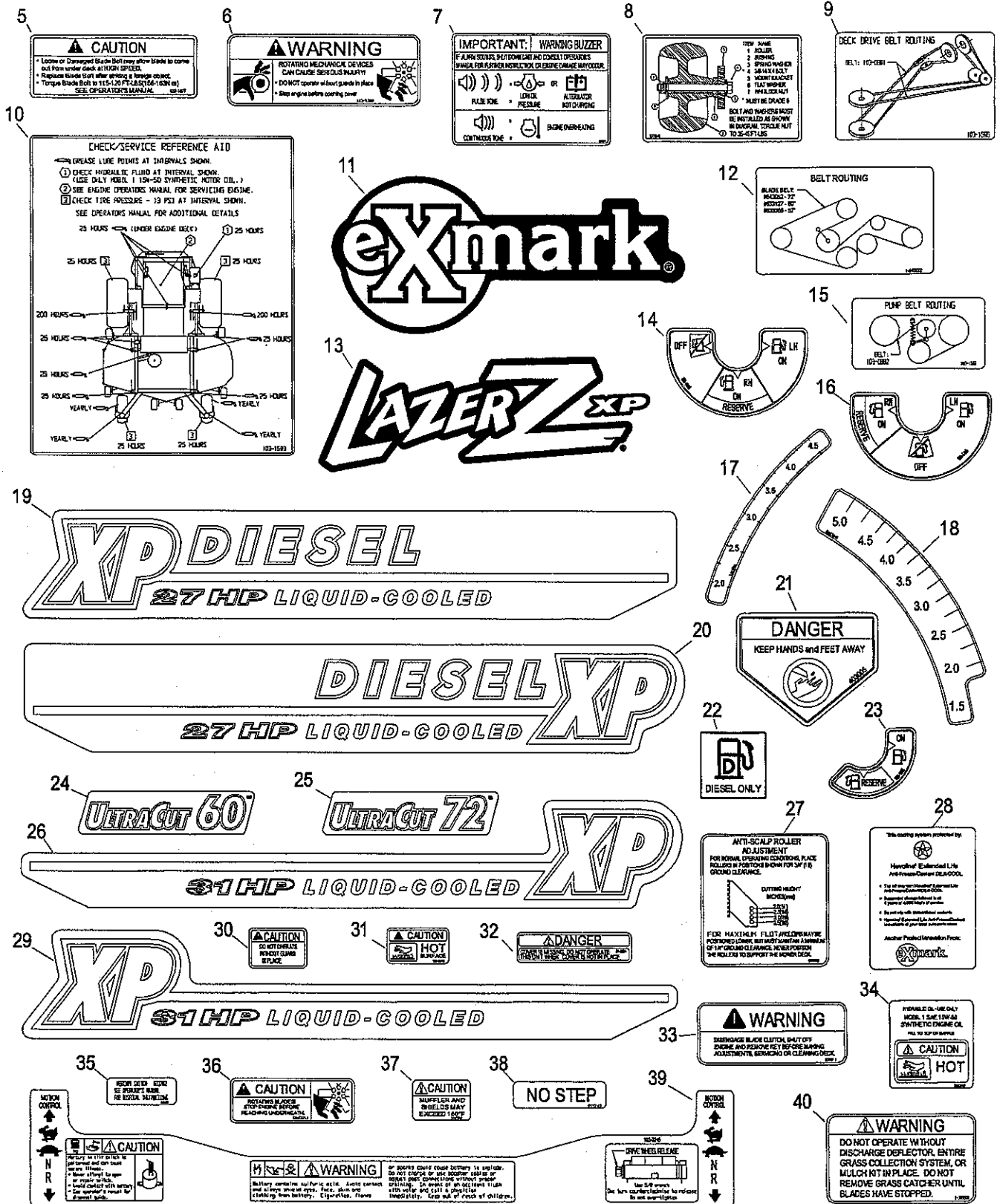
| Ref. No. | Part No. | Description                   | Qty. Req'd. | Ref. No. | Part No. | Description                   | Qty. Req'd. |
|----------|----------|-------------------------------|-------------|----------|----------|-------------------------------|-------------|
| 1♦       | 103-3996 | Decal, Console .....          | 1           | 22♦      | 103-1636 | Decal, Diesel only.....       | 2           |
| 2        | 103-3997 | Decal, Console Throttle ..... | 1           | 23       | 103-1365 | Decal, Fuel valve reserve...  | 1           |
| 3♦       | 103-3998 | Decal, Console (Diesel).....  | 1           | 24       | 103-1146 | Decal, Ultracut 60.....       | 1           |
| 4        | 106-6571 | Decal, Console .....          | 1           | 25♦      | 103-1147 | Decal, Ultracut 72.....       | 1           |
| 5        | 103-1077 | Decal, Bolt torque .....      | 1           | 26       | 103-1162 | Decal, Hood 31HP XP RH .      | 1           |
| 6        | 103-0368 | Decal, Rotating devices ..... | 1           | 27       | 1-633922 | Decal, Anti-scalp .....       | 1           |
| 7        | 103-3276 | Decal, Warning buzzer .....   | 1           | 28       | 103-0223 | Decal, Havoline coolant.....  | 1           |
| 8        | 1-323540 | Decal, Roller mounting .....  | 1           | 29♦      | 103-1161 | Decal, Hood 31HP XP LH..      | 1           |
| 9        | 103-1596 | Decal, Belt routing .....     | 1           | 30       | 1-513748 | Decal, Guard.....             | 1           |
| 10       | 103-1593 | Decal, Check service.....     | 1           | 31       | 103-2076 | Decal, Caution hot surface.   | 2           |
| 11       | 1-653546 | Decal, Exmark logo .....      | 1           | 32       | 98-5954  | Decal, Missing cover.....     | 3           |
|          | 103-3999 | Decal, Exmark logo .....      | 1           | 33       | 1-633313 | Decal, Warning.....           | 1           |
| 12       | 1-643222 | Decal, Belt routing.....      | 1           | 34       | 1-523552 | Decal, Hyd tank/hot surface   | 1           |
| 13       | 103-3125 | Decal, Lazer XP model .....   | 1           | 35       | 1-643401 | Decal, Mercury switch .....   | 1           |
| 14♦      | 103-1505 | Decal, Fuel valve XPD .....   | 1           | 36       | 1-643253 | Decal, Radiator fan .....     | 2           |
| 15       | 103-1592 | Decal, Belt routing XP .....  | 1           | 37       | 1-513746 | Decal, Muffler .....          | 1           |
| 16♦      | 103-1506 | Decal, Fuel valve XPG .....   | 1           | 38       | 1-513742 | Decal, No step.....           | 2           |
| 17       | 1-633706 | Decal, Deck height.....       | 1           | 39       | 103-0245 | Decal, Top console .....      | 1           |
| 18       | 1-633345 | Decal, Deck height.....       | 1           | 40       | 1-303508 | Decal, Discharge warning..... | 1           |
| 19♦      | 103-1163 | Decal, Hood 27HP XP LH..      | 1           |          | 103-1649 | Decal kit, XP.....            | 1           |
| 20♦      | 103-1164 | Decal, Hood 27HP XP RH .      | 1           |          |          |                               |             |
| 21       | 1-403005 | Decal, Danger .....           | 2           |          |          |                               |             |

♦ Lazer XP Diesel models only

♦ Lazer XP Gas models only



## DECAL GROUP



## 27 HP DIESEL ELECTRICAL GROUP

| Ref. No. | Part No.    | Description                     | Qty. Req'd. | Ref. No. | Part No.                                | Description                      | Qty. Req'd. |
|----------|-------------|---------------------------------|-------------|----------|-----------------------------------------|----------------------------------|-------------|
| 1        | 1-543792    | Wingnut, nyloc .....            | 2           | 28       | 1-633782                                | Switch, tilt .....               | 1           |
| 2        | 103-1311-03 | Holddown, battery .....         | 1           | 29       | 103-1159                                | Cable, battery ground (-) ....   | 1           |
| 3        | 103-1312    | Bolt, battery holddown .....    | 2           | 30*      | 103-1160                                | Cable, starter(+) w/insulators . | 1           |
| 4        | 1-643178    | Insulator, alternator (+) ..... | 1           | 31       | 322-3                                   | Screw, 5/16-18 x 3/4 .....       | 2           |
| 5        | 103-1340    | Insulator, battery terminal ... | 1           | 32       | 32128-20                                | Nut, 5/16-18 whizlock .....      | 2           |
| 6★       |             | Battery, 12V SAE post .....     | 1           | 33⊗      | <b>Briggs &amp; Stratton P/N 820373</b> |                                  |             |
| 7        | 3290-500    | Screw, #10-24 x 5/8 .....       | 12          |          |                                         | Module, pre-heat timer .....     | 1           |
| 8        | 100-6186    | Module, seat delay .....        | 1           | 34       | 103-1349                                | Cable, engine ground (-) ....    | 1           |
| 9        | 3296-2      | Nut, #10-24 Nyloc .....         | 8           | 35       | 3296-42                                 | Nut, 1/4-20 Nyloc .....          | 2           |
| 10       | 1-513051    | Switch, drive lever N.O. ....   | 2           | 36       | 32144-70                                | Screw, 5/16-18 x 3/4 taptite..   | 1           |
| 11       | 1-633181    | Plate, tapped .....             | 3           | 37       | 1-643275                                | Relay, 12V .....                 | 4           |
| 12       | 1-643267    | Indicator, red LED .....        | 1           | 38       | 1-816001                                | Fuse, 20 amp .....               | 1           |
| 13       | 1-513374    | Meter, engine hours .....       | 1           | 39       | 103-1368                                | Fuse, 40 amp .....               | 1           |
| 14       | 103-2106    | Key, Exmark logo .....          | 1           | 40       | 1-513762                                | Clip, loom .50 .....             | 1           |
|          | 1-603511    | Key, ignition .....             | 1           | 41       | 1-643037                                | Guage, Voltmeter .....           | 1           |
| 15□      | 103-0949    | Sender, temperature 1/8 NPT     | 1           | 42       | 1-643021                                | Guage, Temperature .....         | 1           |
| 16       | 103-0498    | Nut, ignition .....             | 1           | 43       | 1-303335                                | Plastic tie (medium) .....       | 12          |
| 17       | 103-0206    | Switch, ignition w/ keys .....  | 1           | 44       | 103-1227                                | Wiring harness, seat .....       | 1           |
| 18       | 1-633673    | Switch, PTO .....               | 1           | 45       | 103-0205                                | Alarm, dual tone .....           | 1           |
| 19       | 103-1320    | Indicator, amber LED .....      | 1           | 46       | 33113-020                               | Screw, M6x1 x 20mm .....         | 1           |
| 20       | 1-633396    | Clip, loom .69 .....            | 5           | 47       | 1-603727                                | Clip, loom .50 .....             | 1           |
| 21       | 1-633111    | Switch, brake N.O./N.C. ....    | 1           | 48       | 3256-14                                 | Washer, #10 SAE .....            | 2           |
| 22       | 103-1420    | Insulator, starter (+) .....    | 1           | 49       | 1-803071                                | Screw, #10-24 x 1/2 .....        | 2           |
| 23       | 32128-33    | Nut, 1/4-20 whizlock .....      | 1           | 50       | 33023-00                                | Nut, M6 Nyloc .....              | 1           |
| 24       | 3256-22     | Washer, 1/4 SAE .....           | 2           | 51       | 323-6                                   | Screw, 3/8-16 x 1 .....          | 1           |
| 25       | 321-4       | Screw, 1/4-20 x 3/4 .....       | 3           | 52       | 3256-24                                 | Washer, Flat SAE 3/8 .....       | 1           |
| 26       | 1-643115    | Plastic tie (large) .....       | 1           | 53       | 3290-357                                | Nut, whizlock 3/8-16 .....       | 1           |
| 27♦      | 103-3296    | Harness, wiring .....           | 1           |          |                                         |                                  |             |

♦ Use dielectric grease on all wiring harness connectors.

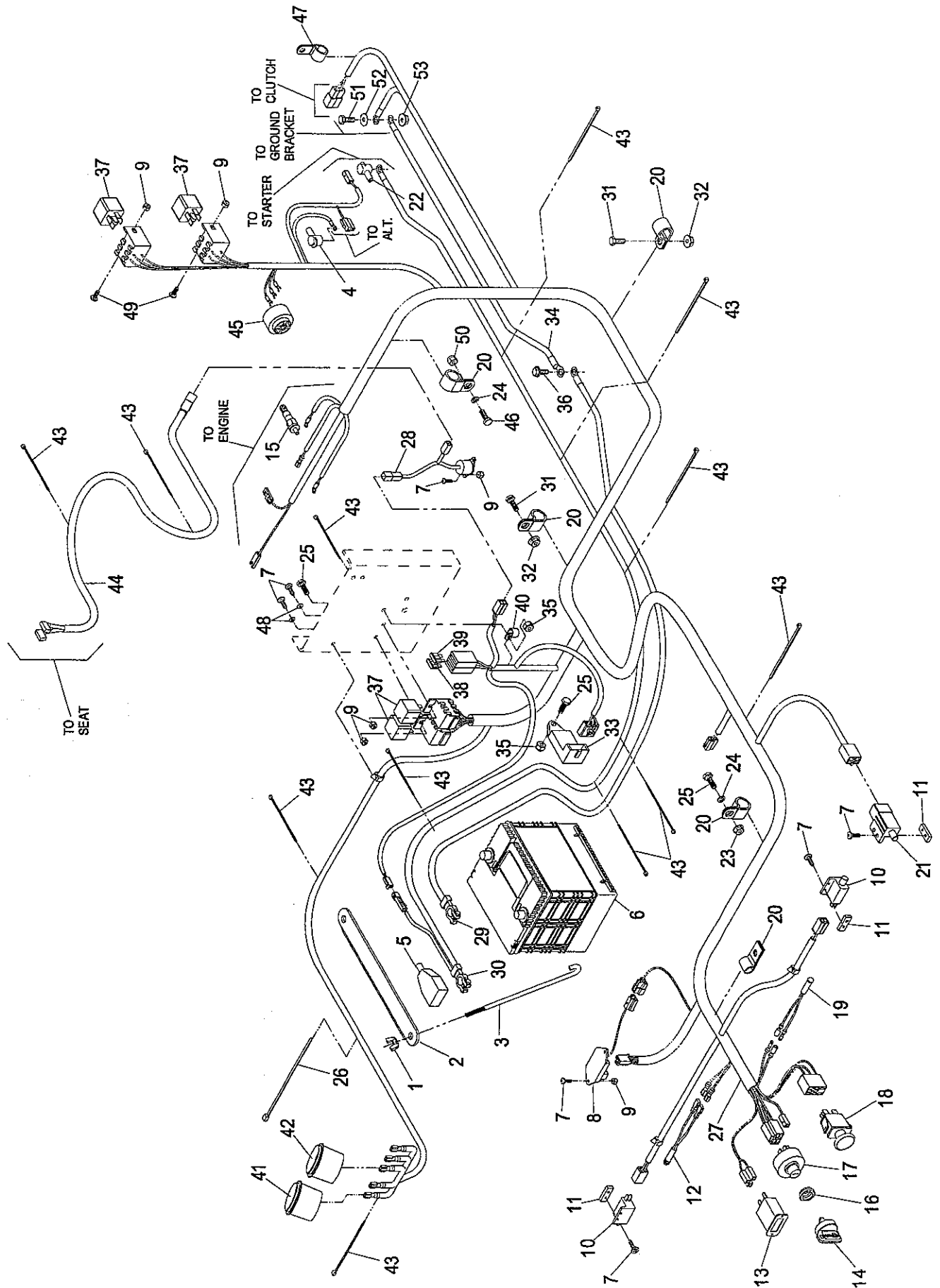
★ 12 Volt battery, BCI group size 26, 550 cca. For warranty and/or direct replacement contact Douglas Battery at 1-800-DOUGLAS.

⊗ Refer to Engine Owner's Manual.

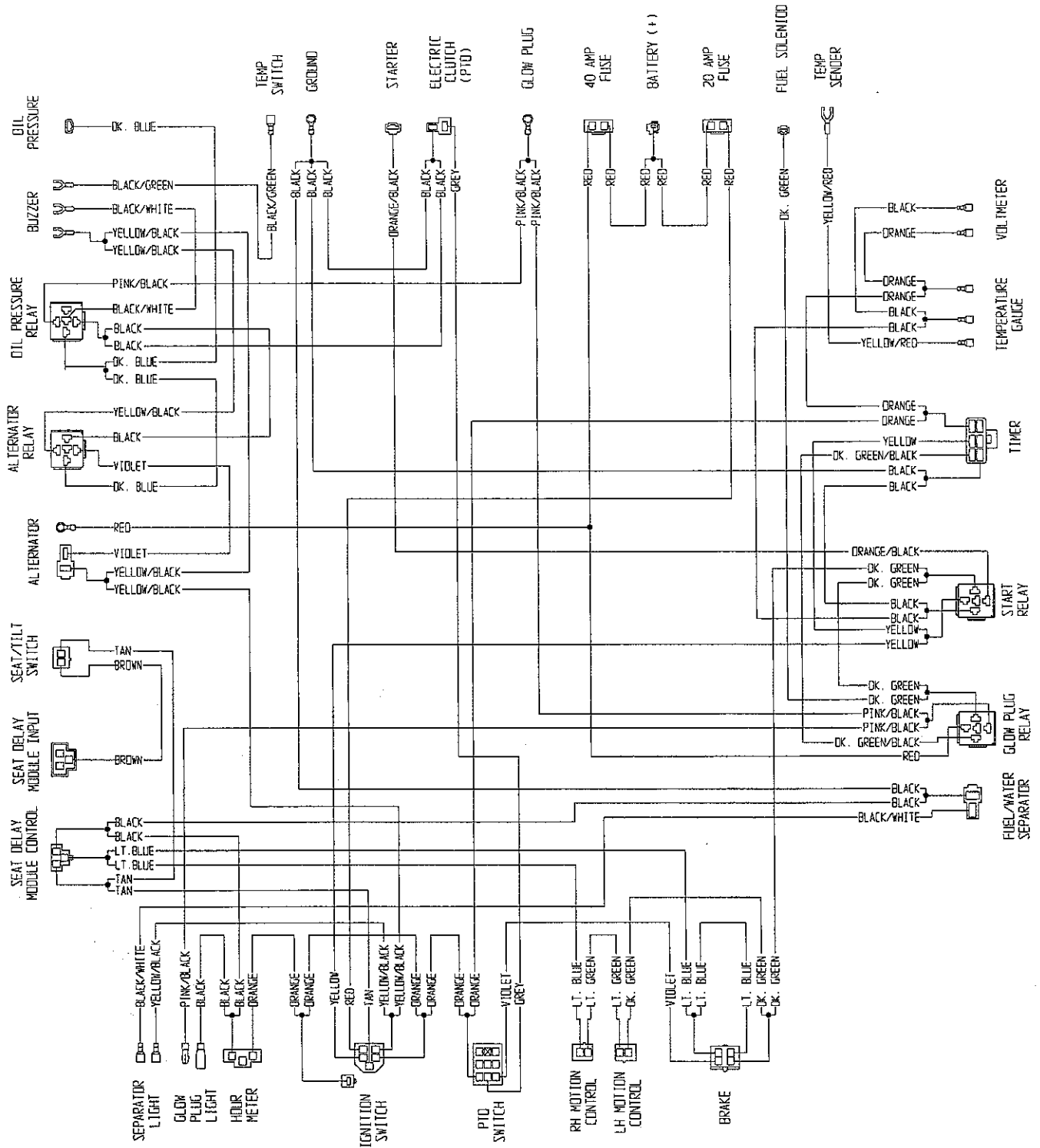
\* Starter Cable includes insulators 103-1340 & 103-1420.

□ Use Teflon pipe sealant on pipe threads on temperature sending unit.

# 27 HP DIESEL ELECTRICAL GROUP

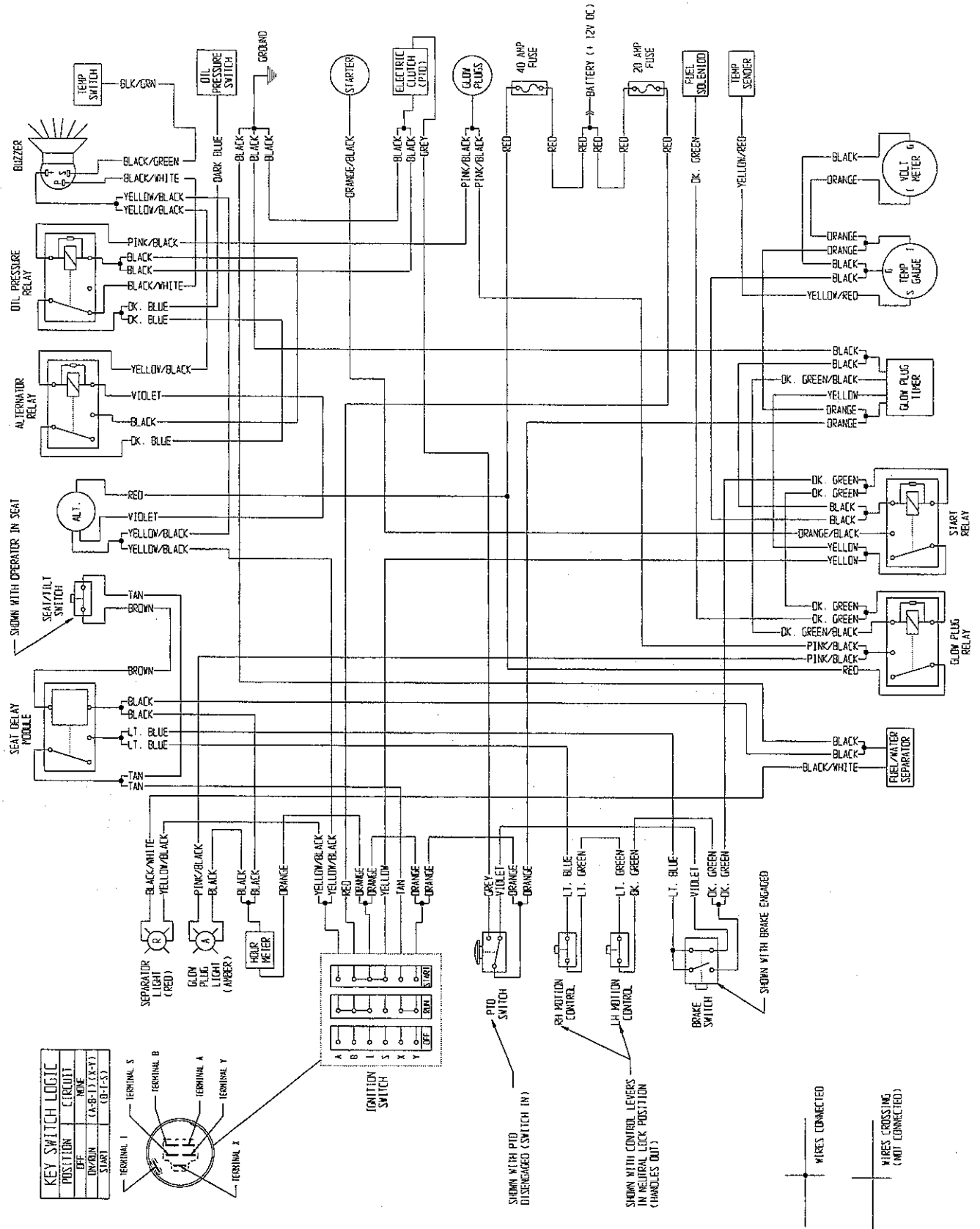


## 27 HP DIESEL WIRE HARNESS DIAGRAM



NOTE:  
CONNECTORS VIEWED FROM WIRE END

# 27 HP DIESEL ELECTRICAL LOGIC SCHEMATIC



# 31 HP GAS ELECTRICAL GROUP

| Ref. No. | Part No.    | Description                     | Qty. Req'd. | Ref. No. | Part No.                                | Description                     | Qty. Req'd. |
|----------|-------------|---------------------------------|-------------|----------|-----------------------------------------|---------------------------------|-------------|
| 1        | 1-543792    | Wingnut, nyloc.....             | 2           | 27       | 103-1159                                | Cable, battery ground (-) ....  | 1           |
| 2        | 103-1311-03 | Holddown, battery.....          | 1           | 28*      | 103-1160                                | Cable, starter(+) w/insulators. | 1           |
| 3        | 103-1312    | Bolt, battery holddown .....    | 2           | 29       | 32144-70                                | Screw, 5/16-18 x 3/4 taptite .  | 1           |
| 4        | 103-1340    | Insulator, battery terminal ... | 1           | 30       | 103-1349                                | Cable, engine ground (-) ....   | 1           |
| 5★       |             | Battery, 12V SAE post.....      | 1           | 31       | 1-603727                                | Clip, loom .50 .....            | 1           |
| 6        | 3290-500    | Screw, #10-24 x 5/8.....        | 12          | 32       | 33113-020                               | Screw, M6x1 x 20mm .....        | 1           |
| 7        | 100-6186    | Module, seat delay.....         | 1           | 33       | 1-633782                                | Switch, tilt .....              | 1           |
| 8        | 3296-2      | Nut, #10-24 nyloc.....          | 7           | 34       | 1-513762                                | Clip, loom .50 .....            | 1           |
| 9        | 1-633181    | Plate, tapped .....             | 3           | 35       | 103-1368                                | Fuse, 40 amp .....              | 1           |
| 10       | 1-513051    | Switch, drive lever N.O. ....   | 2           | 36       | 1-816001                                | Fuse, 20 amp .....              | 1           |
| 11       | 1-513374    | Meter, engine hours.....        | 1           | 37       | 1-643275                                | Relay, 12V .....                | 3           |
| 12       | 103-2106    | Key, Exmark logo .....          | 1           | 38       | 3296-42                                 | Nut, 1/4-20 nyloc .....         | 3           |
|          | 1-603511    | Key, ignition .....             | 1           | 39⊗      | <b>Briggs &amp; Stratton P/N 825273</b> |                                 |             |
| 13□      | 103-0949    | Sender, temperature 1/8 NPT     | 1           |          |                                         | Module, ignition processor .    | 1           |
| 14       | 103-0498    | Nut, ignition.....              | 1           | 40       | 321-6                                   | Screw, 1/4-20 x 1 .....         | 2           |
| 15       | 103-0206    | Switch, ignition w/ keys.....   | 1           | 41       | 103-1227                                | Wiring harness, seat .....      | 1           |
| 16       | 1-633673    | Switch, PTO.....                | 1           | 42       | 103-0205                                | Alarm, dual tone .....          | 1           |
| 17       | 1-633396    | Clip, loom .69.....             | 6           | 43       | 1-643178                                | Insulator, alternator(+ ).....  | 1           |
| 18       | 1-633111    | Switch, brake N.O./N.C. ....    | 1           | 44       | 103-1420                                | Insulator, starter(+ ).....     | 1           |
| 19       | 32128-33    | Nut, 1/4-20 whizlock .....      | 1           | 45       | 1-643037                                | Guage, Voltmeter .....          | 1           |
| 20       | 3256-22     | Washer, 1/4 SAE.....            | 4           | 46       | 1-643021                                | Guage, Temperature.....         | 1           |
| 21       | 321-4       | Screw, 1/4-20 x 3/4 .....       | 2           | 47       | 3256-14                                 | Washer, #10 SAE .....           | 2           |
| 22       | 1-643115    | Plastic tie (large).....        | 1           | 48       | 33023-00                                | Nut, M6 Nyloc.....              | 1           |
| 23       | 32128-20    | Nut, 5/16-18 whizlock .....     | 2           | 49       | 1-803071                                | Screw, #10-24 x 1/2 .....       | 1           |
| 24       | 322-3       | Screw, 5/16-18 x 3/4.....       | 2           | 50       | 323-6                                   | Screw, 3/8-16 x 1 .....         | 1           |
| 25       | 1-303335    | Plastic tie (medium).....       | 15          | 51       | 3256-24                                 | Washer, Flat SAE 3/8 .....      | 1           |
| 26♦      | 103-3297    | Harness,wiring.....             | 1           | 52       | 3290-357                                | Nut,whizlock 3/8-16 .....       | 1           |

♦ Use dielectric grease on all wiring harness connectors.

★ 12 Volt battery, BCI group size 26, 550 cca. For warranty and/or direct replacement contact Douglas Battery at 1-800-DOUGLAS.

⊗ Refer to Engine Owner's Manual.

\* Starter Cable includes insulators 103-1340 & 103-1420.

□ Use Teflon pipe sealant on pipe threads on temperature sending unit.



**Left Side Components (Inputs/Sensors):**

- TEMP SENSOR: YELLOW/RED
- OIL PRESS.: BLACK/WHITE
- TRIGGER COIL: LT. BLUE, LT. GREEN
- TEMP SWITCH: BLACK/GREEN
- GROUND: BLACK
- Buzzer: BLACK/GREEN, BLACK/WHITE
- ALTERNATOR RELAY: YELLOW/BLACK, YELLOW/BLACK, BLACK, BLACK, VIOLET, BLACK/WHITE, BLACK/WHITE, VIOLET
- ALTERNATOR: YELLOW/BLACK, YELLOW/BLACK, RED
- SEAT/TILT SWITCH: TAN, BROWN
- SEAT DELAY MODULE INPUT: BROWN
- SEAT DELAY MODULE CONTROL: BLACK, BLACK, LT. BLUE, LT. BLUE, TAN, TAN

**Top Components (Power/Fuses):**

- 40 AMP FUSE: RED, RED
- BATTERY (+): RED, RED
- 20 AMP FUSE: RED, RED
- CARBURETOR: OK, GREEN
- FUEL PUMP: PINK, WHITE/BLACK
- CYL #3: WHITE/OK, BLUE, ORANGE
- CYL #2: WHITE, ORANGE
- CYL #1: WHITE/RED, ORANGE

**Middle Components (Control/Relays):**

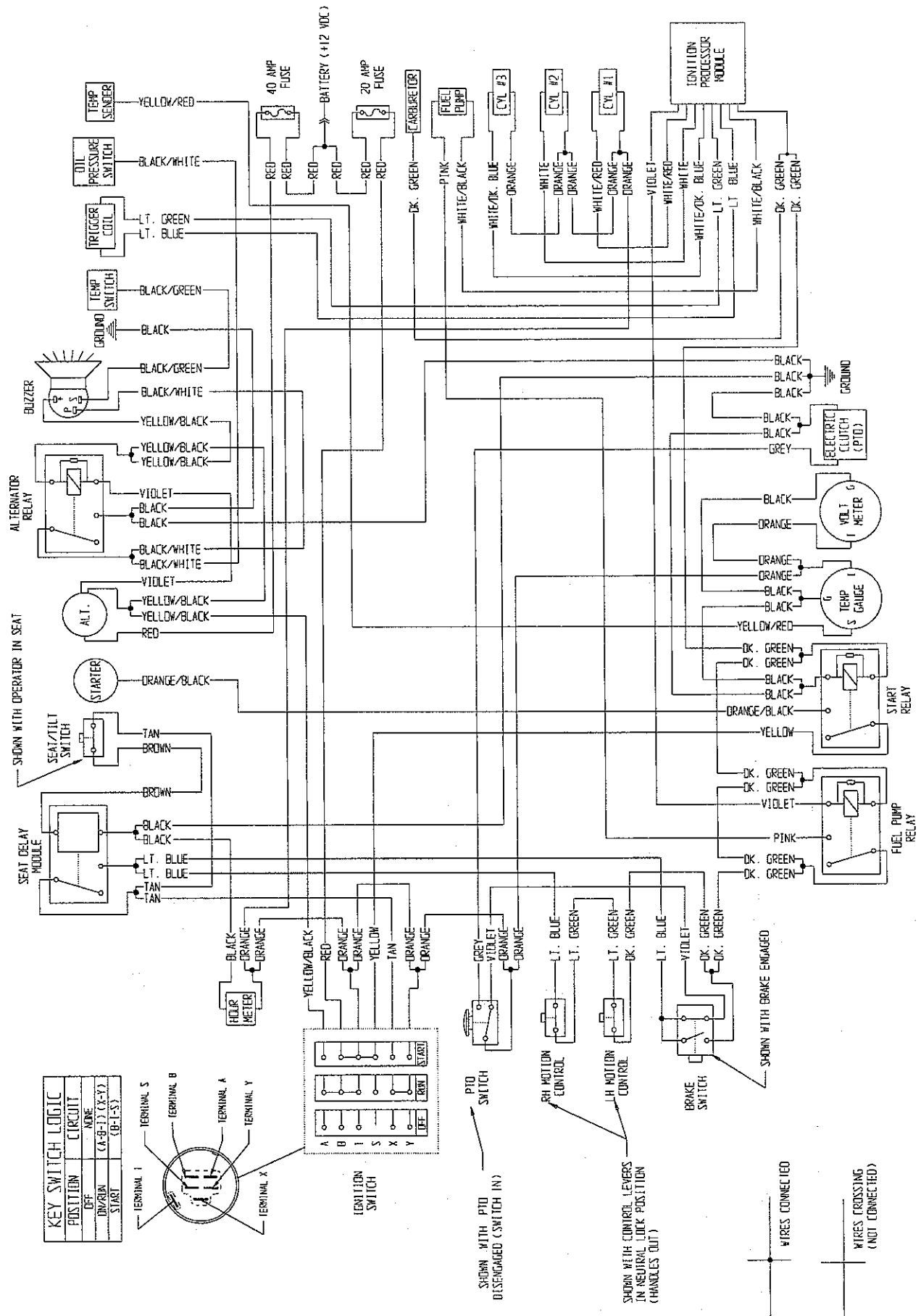
- IGNITION SWITCH: BLACK, ORANGE, ORANGE, TAN, YELLOW, RED, YELLOW/BLACK, ORANGE, ORANGE, ORANGE, VIOLET, GREY
- PTO SWITCH: VIOLET, GREY
- RH MOTION CONTROL: LT. BLUE, LT. GREEN
- LH MOTION CONTROL: LT. GREEN, OK, GREEN
- BRAKE: VIOLET, LT. BLUE, LT. BLUE, LT. BLUE, OK, GREEN, OK, GREEN
- START RELAY: ORANGE/BLACK, OK, GREEN, OK, GREEN, YELLOW, BLACK, BLACK
- FUEL PUMP RELAY: VIOLET, PINK, OK, GREEN, OK, GREEN, OK, GREEN

**Right Side Components (Outputs/Actuators):**

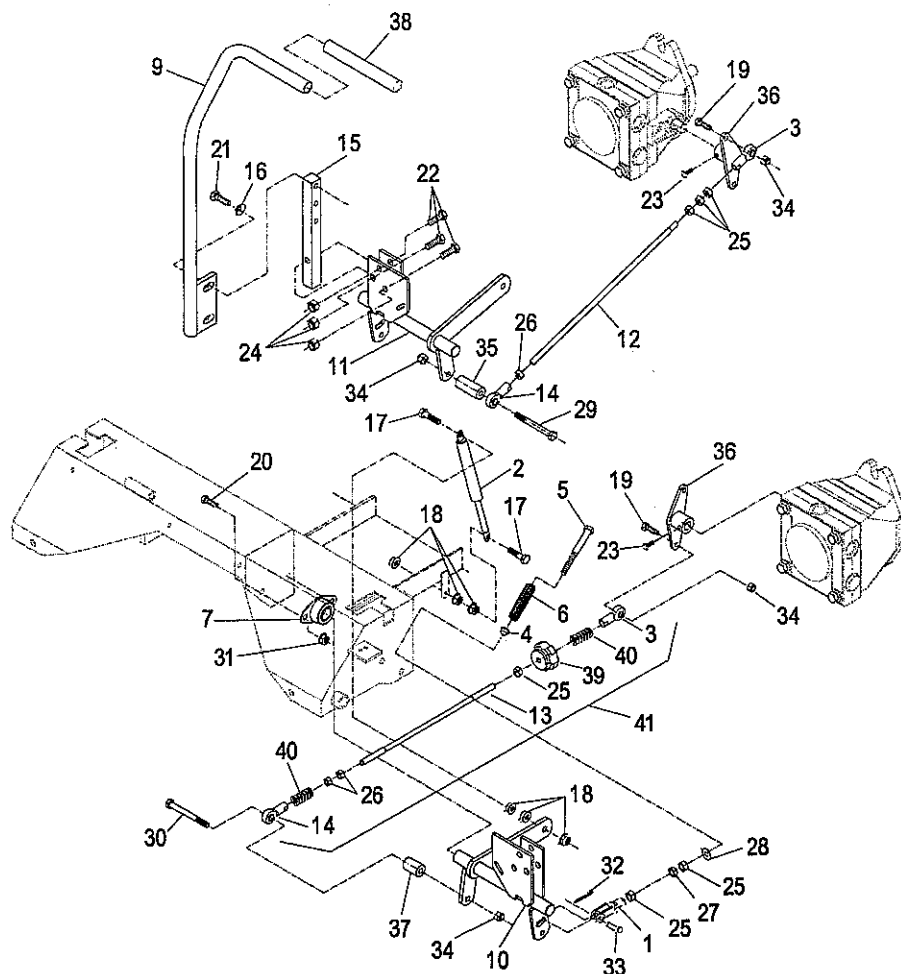
- GROUND: BLACK, BLACK, BLACK
- ELECTRIC CLUTCH (PTO): BLACK, BLACK, GREY
- VOLTMETER: BLACK, ORANGE
- TEMPERATURE GAUGE: ORANGE, ORANGE, BLACK, BLACK, YELLOW/RED
- IGNITION PROCESSOR MODULE: WHITE/OK, BLUE, WHITE, WHITE/RED, LT. BLUE, LT. GREEN, OK, GREEN, OK, GREEN, WHITE/BLACK

29

# MOTION CONTROL LEVERS



## MOTION CONTROL LEVERS



| Ref. No. | Part No.    | Description                        | Qty. Req'd. | Ref. No. | Part No.    | Description                       | Qty. Req'd. |
|----------|-------------|------------------------------------|-------------|----------|-------------|-----------------------------------|-------------|
| 1        | 1-303105    | Yoke.....                          | 2           | 21       | 323-6       | Screw, 3/8-16 x 1 .....           | 4           |
| 2        | 103-2913    | Damper .....                       | 2           | 22       | 323-9       | Screw, 3/8-16 x 1 3/4 .....       | 6           |
| 3        | 1-543017    | Ball joint (RH).....               | 2           | 23       | 1-803022    | Set screw, 5/16 x 5/8 .....       | 2           |
| 4        | 1-603735    | Bushing, nylon .....               | 2           | 24       | 3296-39     | Nut, nyloc 3/8-16 .....           | 6           |
| 5        | 1-603737    | Bolt, (neutral return).....        | 2           | 25       | 3219-2      | Nut, 5/16-24.....                 | 8           |
| 6        | 1-603807    | Spring, (neutral return).....      | 2           | 26       | 1-804524    | Nut, 5/16-24 LH .....             | 3           |
| 7        | 1-633102    | Bearing, flanged.....              | 4           | 27       | 3220-2      | Nut, jam 5/16-24.....             | 2           |
| 8*       | 103-0631    | LH Lever/Grip asm .....            | 1           | 28       | 3256-2      | Washer, 1/4 .....                 | 2           |
|          | 103-0409-03 | Handle, motion control (LH) .....  | 1           | 29       | 322-14      | Screw, 5/16-18 x 3 .....          | 1           |
| 9        | 103-0632    | RH Lever/Grip asm .....            | 1           | 30       | 322-12      | Screw, 5/16-18 x 2 1/2 .....      | 1           |
|          | 103-0410-03 | Handle, motion control (RH) .....  | 1           | 31       | 3290-357    | Nut, whizlock 3/8-16.....         | 8           |
| 10       | 103-0062    | Bracket, motion control (LH) ..... | 1           | 32       | 3272-5      | Pin, cotter 3/32 x 1/2 .....      | 2           |
| 11       | 103-0199    | Bracket, motion control (RH) ..... | 1           | 33       | 1-808280    | Pin, clevis 5/16 x 1 .....        | 2           |
| 12       | 103-0918    | Link, hydro connecting (RH) .....  | 1           | 34       | 3296-29     | Nut, nyloc 5/16-18 .....          | 4           |
| 13       | 103-3065    | Link, hydro connecting (LH) .....  | 1           | 35       | 103-0057    | Spacer, hyd control (RH)....      | 1           |
| 14       | 1-633152    | Ball joint (LH) .....              | 2           | 36       | 103-0194-03 | Arm, pump control.....            | 2           |
| 15       | 103-0407    | Arm, control shaft .....           | 2           | 37       | 103-1361    | Spacer, hyd control (LH)....      | 1           |
| 16       | 98-5975     | Washer, disc spring 3/8 .....      | 4           | 38       | 1-633257    | Grip, motion control handle ..... | 2           |
| 17       | 1-403180    | Screw, 5/16-18 x 1 3/8(gm) .....   | 4           | 39       | 103-3060    | Knob, tracking .....              | 1           |
| 18       | 32128-20    | Nut, 5/16-18.....                  | 12          | 40       | 1-323245    | Spring, compression.....          | 2           |
| 19       | 322-6       | Screw, 5/16-18 x 1 1/4.....        | 2           | 41       | 103-3062    | Asm, tracking rod linkage...      | 1           |
| 20       | 323-4       | Screw, 3/8-16 x 3/4.....           | 8           |          |             |                                   |             |

\* Not Illustrated.

Exmark black touch up spray paint - gloss black

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

## NOTES

## NOTES

## SERVICE RECORD

[illegible]

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