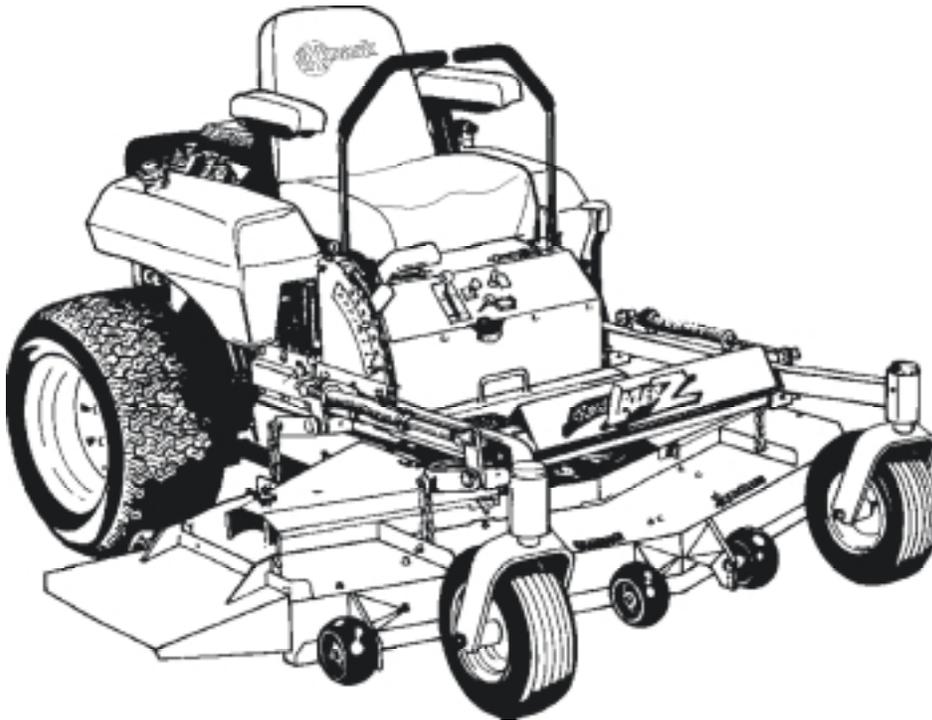


For Serial Nos.
260,000 & Higher



PARTS MANUAL

LAZER Z[®]

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.

Model No. _____

Serial No. _____

Engine Model No. _____

Engine Serial No. _____

Date Purchased _____

Paste Label From
Literature Packet Here

EXMARK PARTS PLUS® PROGRAM

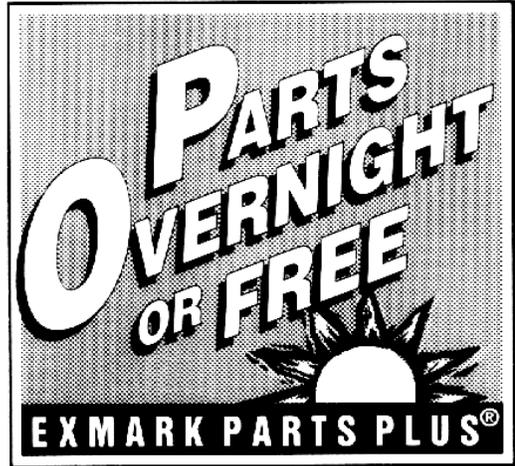
EFFECTIVE DATE: September 1, 1995

Program

If your Exmark dealer does not have the Exmark part in stock, Exmark will get the parts to the dealer the next business day or the part will be FREE* Guaranteed!!

How the Program Works

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



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

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

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



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

TABLE OF CONTENTS

| <u>Description</u> | <u>Page</u> |
|-----------------------------|--------------------|
| Decal Group | 27-28 |
| Electrical Diagram | 34-38 |
| Electrical Group..... | 29-33 |
| Engine Deck Group | 18-24 |
| Front Frame Group..... | 9-10 |
| Fuel Group | 12-14 |
| Hydraulics Group..... | 25-26 |
| Main Frame Group | 11 |
| Motion Control Levers | 17 |
| Park Brake Group | 15-16 |
| Parts Plus Program | 1 |
| 52" Deck Group..... | 3-4 |
| 60" Deck Group..... | 5-6 |
| 72" Deck Group..... | 7-8 |

52" DECK GROUP

| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-------------|----------------------------------|-------------|----------|-------------|-----------------------------------|-------------|
| 1 | 103-0332-01 | Deck wldmt, 52" | 1 | 48 ★ | 1-803022 | Setscrew,5/16-18x5/8sqhdcp | 2 |
| | 103-0675 | Deck wldmt, 52" w/decals..... | 1 | 49★ | 1-807264 | Key, 1/4 sq x 2 5/8 | 1 |
| 2 | 3256-24 | Washer, 3/8 SAE | 3 | 50★ | 1-633012 | Jackshaft, deck drive | 1 |
| 3★ | 1-323533 | Spacer, shv/brg | 3 | 51* | 103-1140 | Cutter housing complete..... | 3 |
| | 1-323533 | Spacer, shv/brg | 4 | 52 | 323-20 | Screw, 3/8-16 x 3 1/4..... | 1 |
| 4★ | 1-513208 | Washer, disc spring..... | 3 | 53★ | 1-633014-01 | Bracket, jackshaft | 1 |
| | 1-513208 | Washer, disc spring..... | 4 | 54★ | 3230-1 | Bolt, 5/16-18 x 3/4 Carr..... | 6 |
| 5 | 1-303334 | Washer, 5/16 disc spring..... | 1 | 55★ | 1-513013 | Housing, flange..... | 4 |
| 6 | 32128-20 | Nut, 5/16-18 whizloc | 14 | 56★ | 1-513012 | Bearing w/lock collar & ss..... | 2 |
| 7 | 1-602913-01 | Baffle wldmt, discharge | 1 | 57★ | 1-633573 | Guard, Brg bottom | 3 |
| 8 | 322-2 | Screw, 5/16-18 x 5/8..... | 5 | | 1-633573 | Guard, Brg bottom | 4 |
| 9 | 1-603299 | Roller, antiscalp | 6 | 58★ | 3231-22 | Bolt, 3/8-16 x 1 carr..... | 4 |
| 10★ | 3290-357 | Nut, 3/8-16 whizlock | 12 | 59 | 103-1072-01 | Strut wldmt, deck | 2 |
| | 3290-357 | Nut, 3/8-16 whizlock | 8 | 60 | 1-634619 | Housing w/ring, spacer, & brg.... | 3 |
| 11 | 1-373034 | Washer, pivot | 8 | 61 | 1-633029 | Spherical rod end..... | 2 |
| 12 | 1-603602 | Bushing, roller | 6 | 62 ★ | 1-803050 | Setscrew, 5/16-18 x .75sqhd | 1 |
| 13★ | 98-5975 | Washer, 3/8 disc spring..... | 10 | 63 | 327-11 | Screw, 5/8-11 x 5 | 2 |
| | 98-5975 | Washer, 3/8 disc spring..... | 14 | 64 | 3253-8 | Lockwasher, 5/8 reg.spring..... | 2 |
| 14 | 98-5961 | Screw, 3/8-16 x 4 gr 8 | 6 | 65 | 302-19 | Zerk, 1/4-28 straight..... | 4 |
| 15 | 103-0345-01 | Chute, discharge 52" | 1 | 66 | 1-632199-01 | Pin wldmt, deck strut..... | 2 |
| 16 | 322-5 | Screw, 5/16-18 x 1..... | 3 | 67★ | 3219-6 | Nut, 5/8-18 hex | 5 |
| 17 | 3296-29 | Nut, 5/16-18 nyloc | 4 | | 3219-6 | Nut, 5/8-18 hex | 6 |
| 18 | 1-633357-01 | Shield, belt 52" | 2 | 68 | 3257-32 | Key, # 61 Woodruff | 3 |
| 19 | 1-323385 | Knob, belt shield..... | 6 | 69Ω | 1-633701 | Sheave, blade drive | 3 |
| 20 | 1-322110 | Belt guide wldmt | 1 | 70Ω | 1-513016 | Bearing | 6 |
| 21 | 103-0862 | Screw, 5/8-11x2 3/4 gr 8 | 3 | | 1-513016 | Bearing | 8 |
| 22 | 323-11 | Screw, 3/8-16 x 2 1/4..... | 2 | 71 | 1-323532 | Housing ,bearing..... | 3 |
| 23 | 1-303537 | Stud, belt shield..... | 2 | 72 | 1-323528 | Spacer, bearing | 3 |
| 24 | 3256-3 | Washer 5/16 std flat | 4 | | 1-323528 | Spacer, bearing | 4 |
| 25 | 1-323417 | Washer, rubber..... | 2 | 73 | 323-7 | Screw, Hex cap 3/8x1 1/4..... | 18 |
| 26 | 1-633151 | Spring, extension..... | 1 | 74★ | 32120-8 | Snap Ring | 3 |
| 27 | 1-632119-03 | Arm wldmt, deck idler | 1 | | 32120-8 | Snap Ring | 4 |
| 28 | 1-513034 | Bearing, pivot..... | 2 | 75 | 103-0584 | Spindle | 3 |
| 29 | 1-634244 | Arm wldmt/brg sub-assy | 1 | 76 | 1-633482 | Blade, notched air foil | 3 |
| 30 | 1-603044 | Bushing, idler pivot..... | 1 | | 1-613251 | Blade, solid air foil..... | 3 |
| 31 | 302-40 | Zerk, 1/4-20 90°..... | 1 | | 1-633485 | Blade, low lift..... | 3 |
| 32 | 3256-4 | Washer, 3/8 std flat | 3 | ◆ | 1-633484 | Blade, mulching | 3 |
| 33 | 3296-39 | Nut, 3/8-16 nylock..... | 20 | | 103-1578 | Blade, bahia..... | 3 |
| 34 | 323-13 | Screw, 3/8-16 x 2 3/4..... | 1 | 77★ | 1-634546 | Jackshaft S/A..... | 1 |
| 35 | 1-633109 | Idler pulley 6.00 dia flat | 2 | 78 ★ | 103-1081 | Strut wldmt S/A | 2 |
| 36 | 3234-11 | Bolt, 3/8-16 x 1 whizlock | 1 | | 103-1106 | Strut wldmt S/A | 2 |
| 37 | 1-633456 | Bushing, Idler | 2 | 79 | 1-643393 | Jackshaft..... | 1 |
| 38 | 3217-11 | Nut, 5/8-11 hex | 2 | 80 | 103-0135 | Sheave, Jackshaft | 1 |
| 39 | 32128-37 | Nut, 7/16-14 whizlock | 16 | | 103-0185 | Sheave, Jackshaft | 1 |
| 40 | 1-603805 | Idler pulley 5.06 O.D V | 1 | 81 | 103-0280 | Housing, Jackshaft | 1 |
| 41 | 1-633366 | Belt, blade drive 52" Deck..... | 1 | 82 | 103-0698 | Jackshaft S/A..... | 1 |
| 42 | 1-633447 | Chain..... | 4 | | 103-0699 | Jackshaft S/A..... | 1 |
| 43 | 1-800811 | Screw, 7/16-14 x 1-1/2 | 8 | 83 | 103-0678 | Complete deck asy (LZ25KC524) 1 | |
| 44 | 322-3 | Screw, 5/16-18 x 3/4 | 2 | | 103-0679 | Complete deck asy (LZ23LKA524)1 | |
| 45Ω★ | 1-403087 | Sheave, blade drive 6.75 OD .. | 1 | 84 | 323-6 | Screw, 3/8-16 x 1 | 4 |
| 46Ω★ | 1-633010 | Pulley, split sheave 6.30 OD ... | 1 | 85 | 103-1192 | Asm,Jackshaft housing w/brgs...1 | |
| 47 | 30-1710 | Setscrew, 5/16-18 x 1sqhdcp .. | 1 | 86 | 103-0865 | Washer,disc spring | 3 |

Use Pro-lock Nut Type (P/N 1-840022 .5 ml. tube) on setscrews. Ω Use antiseize on bore of sheaves and bearings.

* Cutter housing complete includes sheave, washer, and nut. Exmark red touch up spray paint - P/N 1-850337

◆ Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK524

Strut subassemblies have same components, they are assembled to different lengths from center to center.

PN 103-1081=15.31";PN 103-1106=15.00"

Reference the picture on the next page to determine if your unit uses Jackshaft Type A or B:

★ A component used with Jackshaft Type A on LZ25KC524 & LZ23LKA524 units.

A component used with Jackshaft Type B on LZ25KC524 units.

A component used with Jackshaft Type B on LZ23LKA524 units

60" DECK GROUP

| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-------------|----------------------------------|-------------|----------|-------------|--|-------------|
| 1 | 103-0422-01 | Deck wldmt, 60"..... | 1 | 50*❖ | 1-633012 | Jackshaft, deck drive | 1 |
| | 103-0676 | Deck wldmt, 60 w/decals..... | 1 | 51 | 3217-11 | Nut, 5/8-11 hex | 2 |
| 2 | 1-634619 | Housing w/ring, spacer, brg.... | 3 | 52 | 323-20 | Screw, 3/8-16 x 3 ¼ | 1 |
| 3 | 3256-24 | Washer, 3/8 SAE..... | 3 | 53*❖ | 1-633014-01 | Bracket, jackshaft..... | 1 |
| 4*❖ | 1-513208 | Washer, disc Spring..... | 3 | 54*❖ | 3230-1 | Bolt, 5/16-18 x 3/4 Carr..... | 6 |
| | 1-513208 | Washer, disc Spring..... | 4 | 55*❖ | 1-513013 | Housing, flange..... | 4 |
| 5 | 1-303334 | Washer, 5/16 disc spring | 1 | 56*❖ | 1-513012 | Bearing w/lock collar & ss..... | 2 |
| 6 | 32128-20 | Nut, 5/16-18 whizlock | 2 | 57* | 103-1140 | Cutter housing complete..... | 3 |
| *❖ | 32128-20 | Nut, 5/16-18 whizlock | 14 | 58*❖ | 3231-22 | Bolt, 3/8-16 x 1 carr | 4 |
| 7 | 1-602913-01 | Baffle wldmt, discharge | 1 | 59 | 103-1072-01 | Strut wldmt, deck | 2 |
| 8 | 322-2 | Screw, 5/16-18 x 5/8 | 5 | 60*❖ | 1-323533 | Spacer shv/brg..... | 3 |
| 9 | 1-603299 | Roller, antiscalp..... | 6 | | 1-323533 | Spacer shv/brg..... | 4 |
| 10 | 3290-357 | Nut, 3/8-16 whizlock | 6 | 61 | 1-633029 | Spherical rod end..... | 2 |
| *❖ | 3290-357 | Nut, 3/8-16 whizlock | 10 | 62 *❖ | 1-803050 | Setscrew, 5/16 x 3/4sqhdcp..... | 1 |
| 11 | 1-373034 | Washer, pivot | 8 | 63 | 327-11 | Screw, 5/8-11 x 5 | 2 |
| 12 | 1-603602 | Bushing, roller | 6 | 64 | 3253-8 | Lockwasher, 5/8 reg.spring..... | 2 |
| 13 | 98-5975 | Washer, 3/8 disc spring | 10 | 65 | 302-19 | Zerk, 1/4-28 straight..... | 4 |
| 14 | 98-5961 | Screw, 3/8-16 x 4 gr 8 | 6 | 66 | 1-632199-01 | Pin wldmt, deck strut | 2 |
| 15 | 1-632939-01 | Chute, discharge 60"..... | 1 | 67*❖ | 3219-6 | Nut, 5/8-18 hex | 5 |
| 16 | 322-5 | Screw, 5/16-18 x 1 | 2 | | 3219-6 | Nut, 5/8-18 hex | 6 |
| 17 | 3296-29 | Nut, 5/16-18 nylock | 4 | 68 | 3257-32 | Key, # 61 Woodruff..... | 3 |
| 18 | 1-633084-01 | Shield, belt 60" | 2 | 69* | 1-633701 | Sheave, Blade drive..... | 3 |
| 19 | 1-323385 | Knob, belt shield..... | 6 | 70*❖❖ | 1-513016 | Bearing | 6 |
| 20 | 1-322110 | Belt guide wldmt..... | 1 | * | 1-513016 | Bearing | 8 |
| 21 | 103-0862 | Screw, 5/8-11 x 2 ¾ gr 8 | 3 | 71 | 1-323532 | Housing, bearing..... | 3 |
| 22 | 323-11 | Screw, 3/8-16 x 2 1/4 | 2 | 72*❖ | 1-323528 | Spacer, bearing | 3 |
| 23 | 1-303537 | Stud, belt shield..... | 2 | | 1-323528 | Spacer, bearing | 4 |
| 24 | 3256-3 | Washer 5/16 std flat | 6 | 73*❖ | 1-633573 | Guard, brg bottom..... | 3 |
| 25 | 1-323417 | Washer, rubber | 2 | | 1-633573 | Guard, brg bottom..... | 4 |
| 26 | 1-633151 | Spring, extension..... | 1 | 74*❖ | 32120-8 | Snap Ring | 3 |
| 27 | 1-632119-03 | Arm wldmt, deck idler | 1 | | 32120-8 | Snap Ring | 4 |
| 28 | 1-513034 | Bearing, pivot | 2 | 75 | 103-0584 | Spindle..... | 3 |
| 29 | 1-634244 | Arm wldmt/brg sub-assy..... | 1 | 76 | 1-633483 | Blade, notched air foil | 3 |
| 30 | 1-603044 | Bushing, idler pivot..... | 1 | | 1-613250 | Blade, solid air foil..... | 3 |
| 31 | 302-40 | Zerk, 1/4-20 90° | 1 | | 1-613111 | Blade, low lift..... | 3 |
| 32 | 3256-4 | Washer, 3/8 std flat | 3 | ❖ | 1-613112 | Blade, mulching | 3 |
| 33 | 3296-39 | Nut, 3/8-16 nylock | 20 | | 103-1580 | Blade, bahia..... | 3 |
| 34 | 323-13 | Screw, 3/8-16 x 2 3/4 | 1 | 77*❖ | 1-634546 | Jackshaft S/A..... | 1 |
| 35 | 1-633109 | Idler pulley 6.00 dia flat | 2 | 78∇* | 103-1081 | Strut wldmt S/A | 2 |
| 36 | 3234-11 | Bolt, 3/8-16 x 1 whizlock..... | 1 | ∇❖ | 103-1106 | Strut wldmt S/A | 2 |
| 37 | 1-633456 | Bushing, Idler | 2 | 79 | 103-0280 | Housing, Jackshaft | 1 |
| 38 | 323-8 | Screw, 3/8-16 x 1 ½ | 18 | 80 | 103-0136 | Sheave, Jackshaft Double | 1 |
| 39 | 32128-37 | Nut, 7/16-14 whizlock..... | 16 | | 103-0137 | Sheave, Jackshaft Double | 1 |
| 40 | 1-603805 | Idler pulley 5.06 O.D. V | 1 | 81*❖ | 1-643393 | Jackshaft | 1 |
| 41 | 1-633127 | Belt, blade drive 60" deck..... | 1 | 82 | 103-0700 | Jackshaft Assy..... | 1 |
| 42 | 1-633447 | Chain | 4 | | 103-0701 | Jackshaft Assy..... | 1 |
| 43 | 1-800811 | Screw, 7/16-14 x 1 ½ | 8 | 83 | 103-0680 | Complete Deck Assy | |
| 44 | 322-3 | Screw, 5/16-18 x ¾ | 2 | | | (Air-cooled except 26HP Koh EFI) 1 | |
| 45*❖ | 1-303498 | Sheave, 6.13 OD..... | 1 | | 103-0681 | Complete Deck Assy | |
| *❖ | 1-643292 | Pulley, split 6.71 OD..... | 1 | | | (23 & 27 HP Kaw liq-cooled & 26 HP Koh EFI) 1 | |
| 46*❖ | 1-633010 | Pulley, split 6.30 OD..... | 1 | 84 | 322-6 | Screw. 5/16-18 x 1 ¼ | 1 |
| *❖ | 1-643292 | Pulley, split 6.71 OD..... | 1 | 85 | 323-6 | Screw. 3/8-16 x 1 | 4 |
| 47 *❖ | 30-1710 | Setscrew, 5/16-18 x 1sqhdcp.. | 1 | 86 | 103-1192 | Asm,Jackshaft housing w/brgs | 1 |
| 48 *❖ | 1-803022 | Setscrew,5/16-18x5/8sqhdcp . | 2 | 87 | 103-0865 | Washer,disc spring | 3 |
| 49*❖ | 1-807264 | Key, 1/4 sq x 2 5/8 | 1 | | | | |

★ Use antiseize on bore of sheaves and bearings.

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

* Cutter housing complete includes sheave, washer, & nut.

Use Pro-lock Nut Type (P/N 1-840022) on setscrews.

❖ Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK604

∇ Strut subassemblies have same components, they are assembled to different lengths from center to center. PN 103-1081 = 15.31"; PN 103-1106 = 15.00"

Reference the picture on the next page to determine if your unit uses Jackshaft Type A or B:

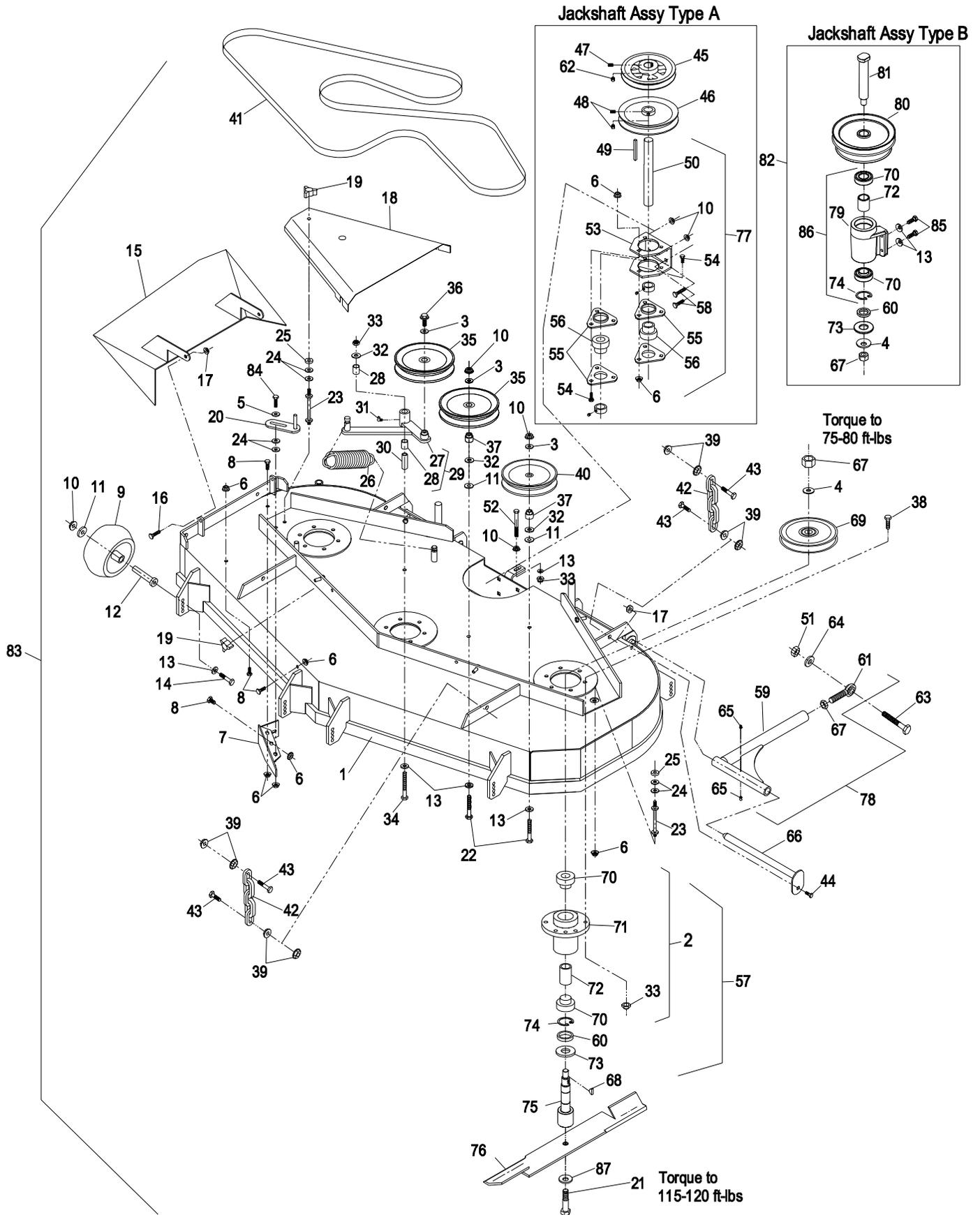
★ A component used with Jackshaft Type A on all air-cooled units except 26 HP Kohler EFI.

❖ A component used with Jackshaft Type A on 23 & 27HP Kawasaki liquid-cooled units and 26HP Kohler EFI air cooled.

A component used with Jackshaft Type B on all air-cooled units except 26 HP Kohler. Reference picture on next page.

A component used with Jackshaft Type B on 23 & 27 HP Kawasaki liquid-cooled units and 26 HP Kohler EFI air-cooled.

60" DECK GROUP



72" DECK GROUP

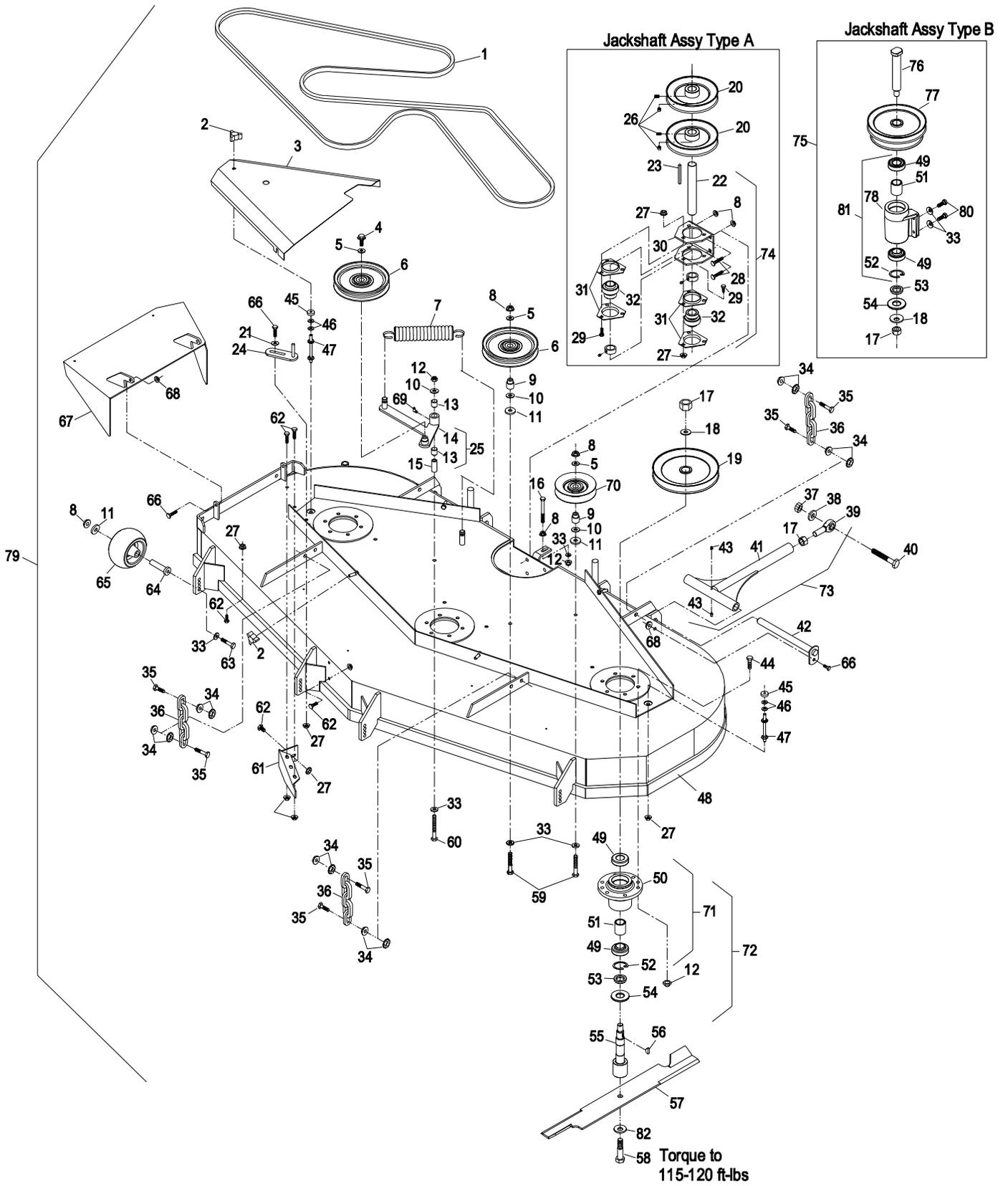
| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-------------|----------------------------------|-------------|----------|-------------|--------------------------------|-------------|
| 1 | 1-643052 | Belt, Blade drive 72" | 1 | 45 | 1-323417 | Washer, rubber | 2 |
| 2 | 1-323385 | Knob, belt shield | 6 | 46 | 3256-3 | Washer 5/16 std flat | 4 |
| 3 | 1-643076-01 | Shield, belt 72" RH | 1 | 47 | 1-303537 | Stud, belt shield | 2 |
| * | 1-643075-01 | Shield, belt 72" LH | 1 | 48 | 103-0588-01 | Deck weldment, 72" | 1 |
| 4 | 3234-11 | Bolt, 3/8-16 x 1 whizlock | 1 | | 1-644149 | Deck weldment, 72" w/decals | 1 |
| 5 | 3256-24 | Washer, 3/8 SAE | 3 | 499 | 1-513016 | Bearing | 6 |
| 6 | 1-633109 | Idler pulley 6.00 dia flat | 2 | | 1-513016 | Bearing | 8 |
| 7 | 1-633151 | Spring, extension | 1 | 50 | 1-323532 | Housing, bearing | 3 |
| 8 | 3290-357 | Nut, 3/8-16 whizlock | 13 | 51★ | 1-323528 | Spacer, bearing | 3 |
| 9 | 1-633456 | Bushing, Idler | 2 | | 1-323528 | Spacer, bearing | 4 |
| 10 | 3256-4 | Washer, 3/8 std flat | 3 | 52★ | 32120-8 | Snap Ring | 3 |
| 11 | 1-373034 | Washer, pivot | 8 | | 32120-8 | Snap Ring | 4 |
| 12 | 3296-39 | Nut, 3/8-16 nyloc | 20 | 53★ | 1-323533 | Spacer shv/brg | 3 |
| 13 | 1-513034 | Bearing, pivot | 2 | | 1-323533 | Spacer shv/brg | 4 |
| 14 | 1-632119-03 | Arm wldmt, deck idler | 1 | 54★ | 1-633573 | Guard, brg bottom | 3 |
| 15 | 1-603044 | Bushing, idler pivot | 1 | | 1-633573 | Guard, brg bottom | 4 |
| 16 | 323-20 | Screw, 3/8-16 x 3 1/4 | 1 | 55 | 103-0584 | Spindle | 3 |
| 17★ | 3219-6 | Nut, 5/8-18 hex | 5 | 56 | 3257-32 | Key, # 61 Woodruff | 3 |
| | 3219-6 | Nut, 5/8-18 hex | 6 | 57 | 1-643006 | Blade, notched air foil | 3 |
| 18★ | 1-513208 | Washer, disc spring | 3 | ◆ | 1-643097 | Blade, mulching | 3 |
| | 1-513208 | Washer, disc spring | 4 | | 1-643428 | Blade, low lift | 3 |
| 199 | 1-643269 | Sheave, Blade drive | 3 | | 1-643429 | Blade, solid air foil | 3 |
| 20 | 1-643292 | Pulley, split 6.71 | 2 | | 103-1581 | Blade, bahia | 3 |
| 21 | 1-303334 | Washer, 5/16 disc spring | 1 | 58 | 103-0862 | Screw, 5/8-11 x 1 gr 8 | 3 |
| 22★ | 1-633012 | Jackshaft, deck drive | 1 | 59 | 323-11 | Screw, 3/8-16 x 2 1/4 | 2 |
| 23★ | 1-807264 | Key, 1/4 sq x 2 5/8 | 1 | 60 | 323-13 | Screw, 3/8-16 x 2 3/4 | 1 |
| 24 | 1-322110 | Belt guide wldmt | 1 | 61 | 1-602913-01 | Baffle wldmt, discharge | 1 |
| 25 | 1-634244 | Arm wldmt/brg sub-assy | 1 | 62 | 322-2 | Screw, 5/16-18 x 5/8 | 5 |
| 26 ★ | 1-803022 | Setscrew, 5/16-18x5/8shcp .. | 4 | 63 | 98-5961 | Screw, 3/8-16 x 4 gr8 | 6 |
| 27★ | 32128-20 | Nut, 5/16-18 whizlock | 15 | 64 | 1-603602 | Bushing, roller | 6 |
| 28★ | 3231-22 | Bolt, 3/8-16 x 1 carr | 4 | 65 | 1-603299 | Roller, anti-scalp | 6 |
| 29★ | 3230-1 | Bolt, 5/16-18 x 3/4 Carr. | 6 | 66 | 322-5 | Screw, 5/16-18 x 1 | 5 |
| 30★ | 1-633014-01 | Bracket, jackshaft | 1 | 67 | 1-642071-01 | Chute, discharge 72" | 1 |
| 31★ | 1-513013 | Housing, flange | 4 | 68 | 329-29 | Nut, 5/16-18 nyloc | 4 |
| 32★ | 1-513012 | Bearing w/lock collar & ss | 2 | 69 | 302-40 | Zerk, 1/4-20 90° | 1 |
| 33★ | 98-5975 | Washer, 3/8 disc spring | 10 | 70 | 1-603805 | Idler pulley 5.06 O.D. V | 1 |
| | 98-5975 | Washer, 3/8 disc spring | 14 | 71 | 1-634619 | Housing w/ring, spacer, brg .. | 3 |
| 34 | 32128-37 | Nut, 7/16-14 whizlock | 16 | 72* | 1-644092 | Cutter housing complete | 3 |
| 35 | 1-800811 | Screw, 7/16-14 x 1-1/2 | 8 | 73 | 103-1082 | Strut wldmt S/A | 2 |
| 36 | 1-633447 | Chain | 4 | 74 | 1-634546 | Jackshaft S/A | 1 |
| 37 | 3217-11 | Nut, 5/8-11 hex | 2 | 75 | 103-0701 | Jackshaft Assy | 1 |
| 38 | 3253-8 | Lockwasher, 5/8 reg.spring .. | 2 | 76 | 1-643393 | Jackshaft | 1 |
| 39 | 1-633029 | Spherical rod end | 2 | 77 | 103-0137 | Sheave, double | 1 |
| 40 | 327-11 | Screw, 5/8-11 x 5 | 2 | 78 | 103-0280 | Housing, Jackshaft | 1 |
| 41 | 103-1073-01 | Strut wldmt, deck | 2 | 79 | 103-0683 | Complete deck assembly | 1 |
| 42 | 1-632199-01 | Pin wldmt, deck strut | 2 | 80 | 323-6 | Screw, .3/8-16 x 1 | 4 |
| 43 | 302-19 | Zerk, 1/4-28 straight | 4 | 81 | 103-1192 | Asm, Jackshaft housing w/brgs | 1 |
| 44 | 323-8 | Screw, 3/8-16 x 1 1/2 | 18 | 82 | 103-0865 | Washer, disc spring | 3 |

- ◆ Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK724.
- 9 Use antiseize on bore of sheaves and bearings.
Use Pro-lock Nut Type (P/N 1-840022 .5 ml. tube) on setscrews.
Exmark red touch up spray paint - P/N 1-850337
- * Cutter housing complete includes sheave, washer, and nut.

Reference the picture on the next page to determine if your unit uses Jackshaft Type A or B:

- ★ A component used with Jackshaft Type A.
A component used with Jackshaft Type B.

72" DECK GROUP



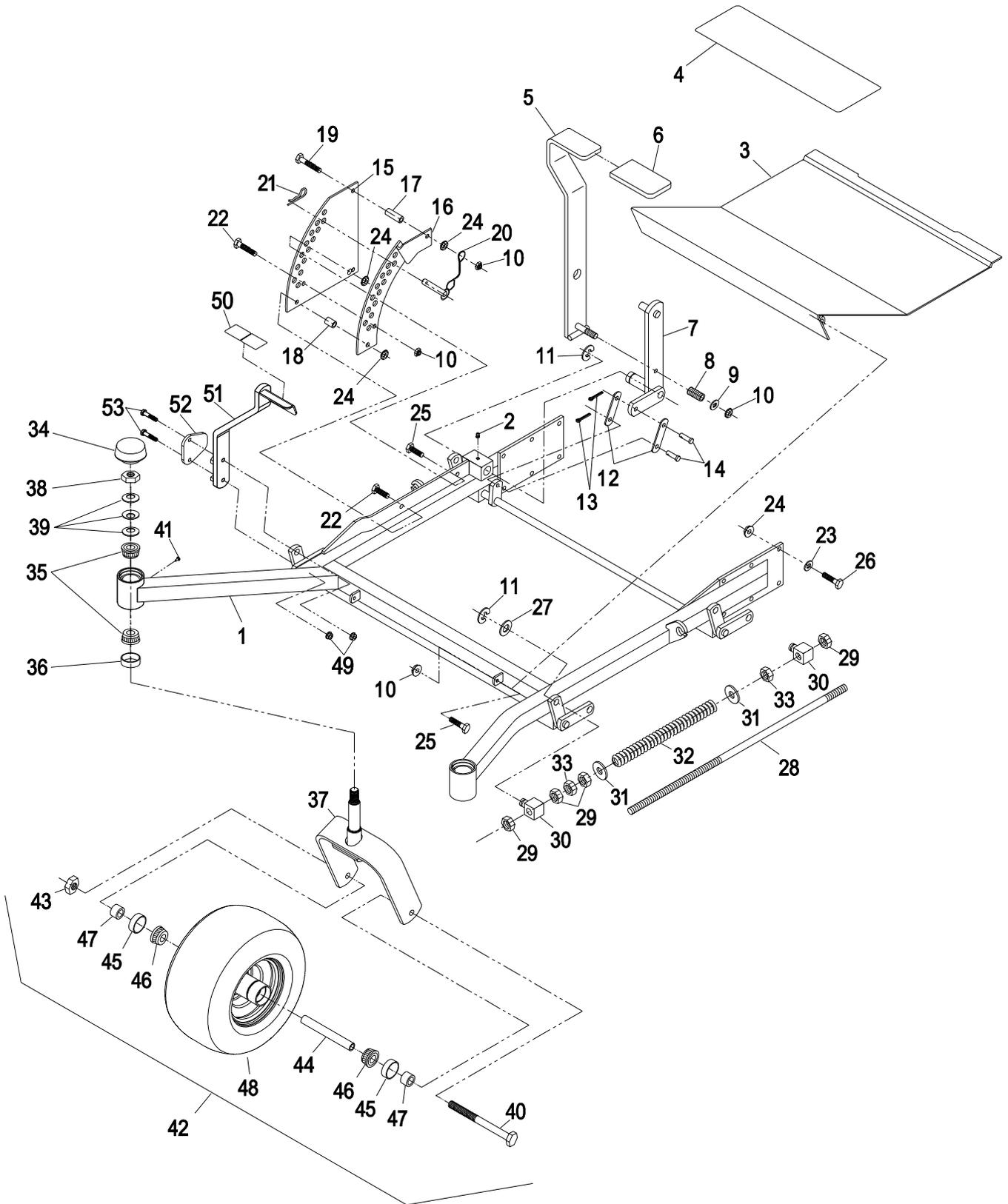
FRONT FRAME GROUP

| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-------------|---------------------------------|-------------|----------|-------------|------------------------------------|-------------|
| 1 | 1-632518-01 | Frame wldmt, front 52"..... | 1 | 29 | 3217-11 | Nut, 5/8-11 regular..... | 8 |
| | 1-632513-01 | Frame wldmt, front 60"..... | 1 | 30 | 1-633441 | Swivel, deck mount..... | 4 |
| | 1-642046-01 | Frame wldmt, front 72"..... | 1 | 31 | 3256-7 | Washer, 5/8 std flat | 4 |
| 2 | 302-19 | Zerk, 1/4-28 straight..... | 5 | 32 | 1-633064 | Spring, deck support (52" &60") | 2 |
| 3 | 103-1490-01 | Floorpan | 1 | | 1-643015 | Spring, deck support (72").. | 2 |
| 4 | 1-633553 | Pad, anti skid..... | 3 | 33 | 3218-6 | Jam nut, 5/8-11 | 4 |
| 5 | 1-634312 | Lever w/grip..... | 1 | 34 | 1-543513 | Cap, grease | 2 |
| | 1-632324-03 | Lever wldmt, lift | 1 | 35 | 1-543509 | Bearing cone, tapered roller | 4 |
| 6 | 1-633295 | Grip, lift lever | 1 | | 1-543508 | Bearing cup, tapered roller . | 4 |
| 7 | 103-1500-03 | Arm wldmt, deck lift..... | 1 | 36 | 1-543511 | Seal, grease..... | 2 |
| 8 | 1-633325 | Spring, compression | 1 | 37 | 1-642111-01 | Caster wldmt..... | 2 |
| 9 | 3256-24 | Washer, 3/8 SAE flat..... | 1 | 38 | 3296-51 | Nut, 3/4-10 nylock..... | 2 |
| 10 | 3296-39 | Nut, nylock 3/8-16 | 5 | 39 | 1-633508 | Washer, spring disk..... | 6 |
| 11 | 32151-103 | E-ring | 5 | 40 | 325-24 | Screw 1/2-13x9 | 2 |
| 12 | 1-633068 | Arm, deck lift | 2 | 41 | 1-811010 | Plug | 2 |
| 13 | 3272-10 | Cotter pin, 1/8 x 3/4..... | 2 | 42 | 103-0069 | Caster wheel assy | 2 |
| 14 | 1-808284 | Clevis pin, 3/8 x 1 | 2 | 43 | 3296-45 | Nut, 1/2-13 nylock (light thin) .. | 2 |
| 15 | 1-633889-01 | Plate, deck lift..... | 1 | 44 | 1-633959 | Spacer, front caster | 2 |
| 16 | 1-632899-01 | Plate wldmt, deck lift | 1 | 45 | 103-0063 | Seal, bearing..... | 4 |
| 17 | 1-633082 | Bushing, lift lever | 1 | 46 | 1-633585 | Bearing cone..... | 4 |
| 18 | 1-633080 | Bushing, lift lever | 1 | 47 | 1-633581 | Spacer, bearing.. .. | 4 |
| 19 | 323-13 | Screw, 3/8-16 x 2 3/4 | 1 | 48 | 103-0065 | Wheel & tire assy | 2 |
| 20 | 1-633097 | Hitch pin w/lanyard | 1 | | 1-523009 | Tire, 13x6.5-6 4 ply | 2 |
| 21 | 1-806005 | Hairpin cotter (serv only) | 1 | | 103-0071 | Wheel | 2 |
| 22 | 323-9 | Screw, 3/8-16 x 1 3/4 | 2 | | 1-633584 | Bearing cup..... | 4 |
| 23 | 98-5975 | Washer, 3/8 disc spring..... | 12 | 49▽ | 32128-20 | Nut, whizlock 5/16-18..... | 2 |
| 24 | 3290-357 | Nut, whizlock 3/8-16 | 15 | 50▽ | 1-543161 | Pad, pedal..... | 2 |
| 25 | 323-6 | Screw, 3/8-16 x 1 | 3 | 51▽ | 103-0147-01 | Lever wldmt, deck lift | 1 |
| 26 | 323-7 | Screw, 3/8-16X1 1/4..... | 12 | 52▽ | 1-643220 | Strap | 1 |
| 27 | 3256-29 | Washer, 7/8 SAE flat..... | 4 | 53▽ | 322-7 | Screw, 5/16-18x1 1/2 | 2 |
| 28 | 1-633096 | Rod, deck lift..... | 2 | | | | |

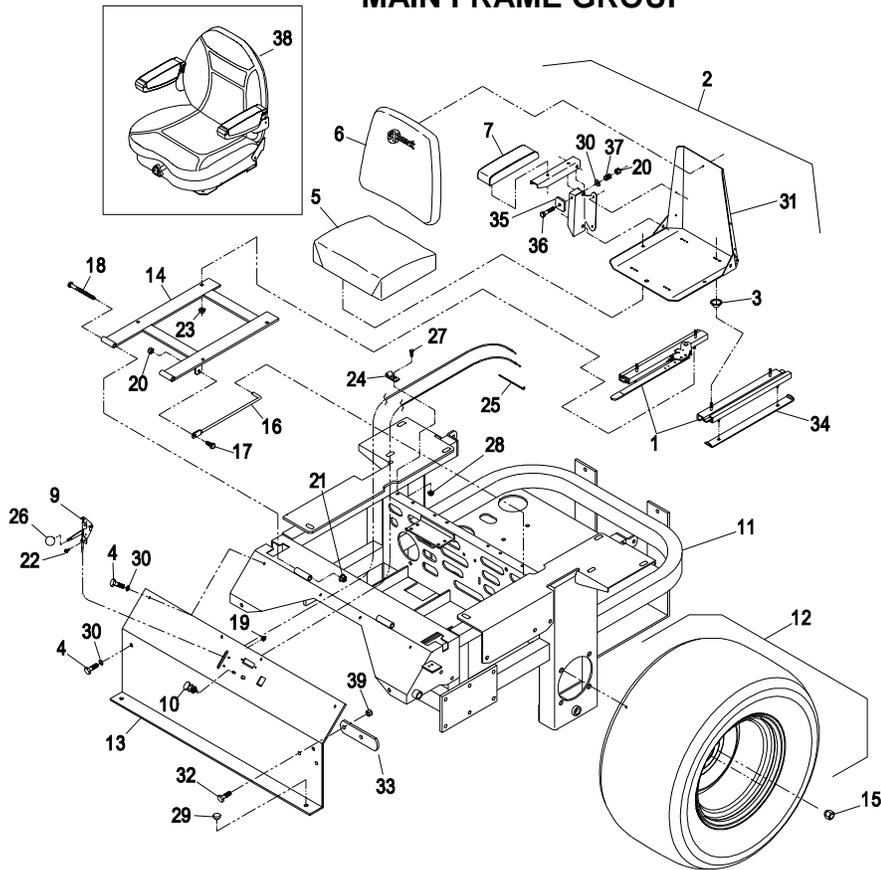
Exmark red touch up spray paint - P/N 850337

▽ Components are standard on Kohler 26 HP EFI units & all 72" decks, they are an optional kit for other models PN 103-0149.

FRONT FRAME GROUP



MAIN FRAME GROUP



| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-------------|-----------------------------------|-------------|----------|---|----------------------------------|-------------|
| 1 | 1-643255 | Track, seat (4" adjustable) ... | 1 | 23 | 32128-20 | Nut, whizlock 5/16-18 | 4 |
| 2 | 103-0287 | Seat (All units except 26hp Koh) | 1 | 24 | 1-513762 | Clip, loom (.50) | 1 |
| 3 | 1-543401 | Spacer, seat track | 2 | 25 | 1-303335 | Plastic tie (lrg) | 1 |
| 4 | 322-3 | Screw, 5/16-18 x 3/4 | 6 | 26 | 1-513592 | Ball, (red) throttle cable | 1 |
| 5 | 103-0290 | Cushion, seat | 1 | 27 | 321-6 | Screw, 1/4-20 x 1.0 | 1 |
| 6 | 103-0289 | Cushion, backrest | 1 | 28 | 32128-33 | Nut, whizlock 1/4-20 | 1 |
| 7 | 103-0292 | Cushion, armrest (RH) | 1 | 29 | 1-513658 | Bumper | 2 |
| 8* | 103-0291 | Cushion armrest (LH) | 1 | 30 | 3256-23 | Washer, 5/16 SAE flat | 8 |
| 9 | 1-633696 | Cable, throttle | 1 | 31 | 1-633859 | Seat Frame | 1 |
| 10 | 1-603336 | Cable, choke | 1 | 32 | 323-6 | Screw, 3/8-16 x 1 | 2 |
| 11 | 1-642324-03 | Frame, engine deck | 1 | 33 | 1-633964-03 | Stop, Park Brake | 1 |
| 12 | 1-633970 | Wheel/tire assy. (60" & 72") . | 2 | 34♦ | 1-633872-03 | Stop/Spacer | |
| | 1-633993 | Tire, 24x12-12 4 ply (60" & 72") | 2 | | (26 HP Kohl & 23 & 27 HP Kaw liq-cooled) | 2 | |
| | 1-633992 | Wheel (60" & 72") | 2 | 35 | 103-0284 | Tab, Armrest Adjustment | 2 |
| | 1-653010 | Wheel/tire assy. (52") | 2 | 36 | 322-7 | Screw, 5/16-18 x 1 1/2 | 2 |
| | 1-653160 | Tire, 23x9.5-12 4 ply (52") | 2 | 37 | 1-633349 | Spring, Compression | 2 |
| | 1-653158 | Wheel (52") | 2 | 38∇ | 1-633821 | Seat, Suspension (26hp Koh)) | 1 |
| 13 | 1-633965-03 | Front, Console | 1 | | 1-631845 | Kit, Pan w/seat & back | 1 |
| 14 | 1-632187-03 | Frame, seat mount | 1 | | 1-631844 | Kit, Armrest Assy | 1 |
| 15 | 242-50 | Nut, wheel 1/2-20 | 8 | | 1-631843 | Kit, Boot, upper&lower wire .. | 1 |
| 16 | 1-633293 | Rod, seat hold-up | 1 | | 1-631842 | Kit, ArmrestPad w/hardwre ... | 1 |
| 17 | 322-5 | Screw, 5/16-18 x 1 | 1 | | 1-631846 | Kit, Damper w/hardware | 1 |
| 18 | 323-39 | Screw, 3/8-16 x 5 | 2 | | 1-631847 | Kit, Rollers, bumpers&hrdwre | 1 |
| 19 | 3296-2 | Nut, nyloc #10-24 | 2 | | 1-631848 | Kit, Spring,Cable & hardware | 1 |
| 20 | 3296-29 | Nut, nyloc 5/16-18 | 3 | | 1-631849 | Kit, Knob,Shaft & hardware .. | 1 |
| 21 | 3296-39 | Nut, nyloc 3/8-16 | 2 | | 1-643281 | Switch, Seat | 1 |
| 22 | 1-807513 | Screw, #10-24 x 1/2 | 2 | 39 | 3290-357 | Nut, whizlock 3/8-16 | 1 |

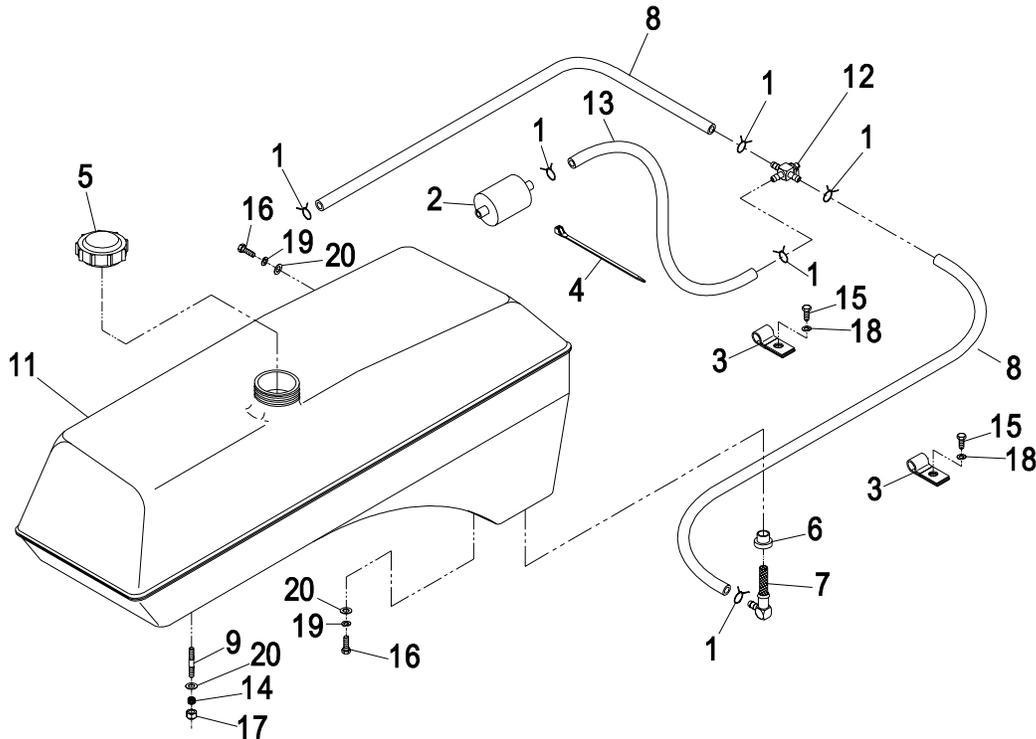
* Not Illustrated

∇ The suspension seat is standard on the Kohler 26 HP EFI units, it is an optional kit on other units PN MSSSLZ.

♦ The stop/spacer is installed with the slotted holes to the rear on 26HP Kohler units and the slotted holes to the front on Kawasaki liquid-cooled units. NOTE: If a Suspension Seat is installed on a Kawasaki liquid-cooled unit the stop/spacer must be turned around and re-installed with the slotted holes to the rear.

Exmark black touch up spray paint - gloss black

23 HP KAWASAKI and 23 & 25 HP KOHLER AIR-COOLED FUEL GROUP



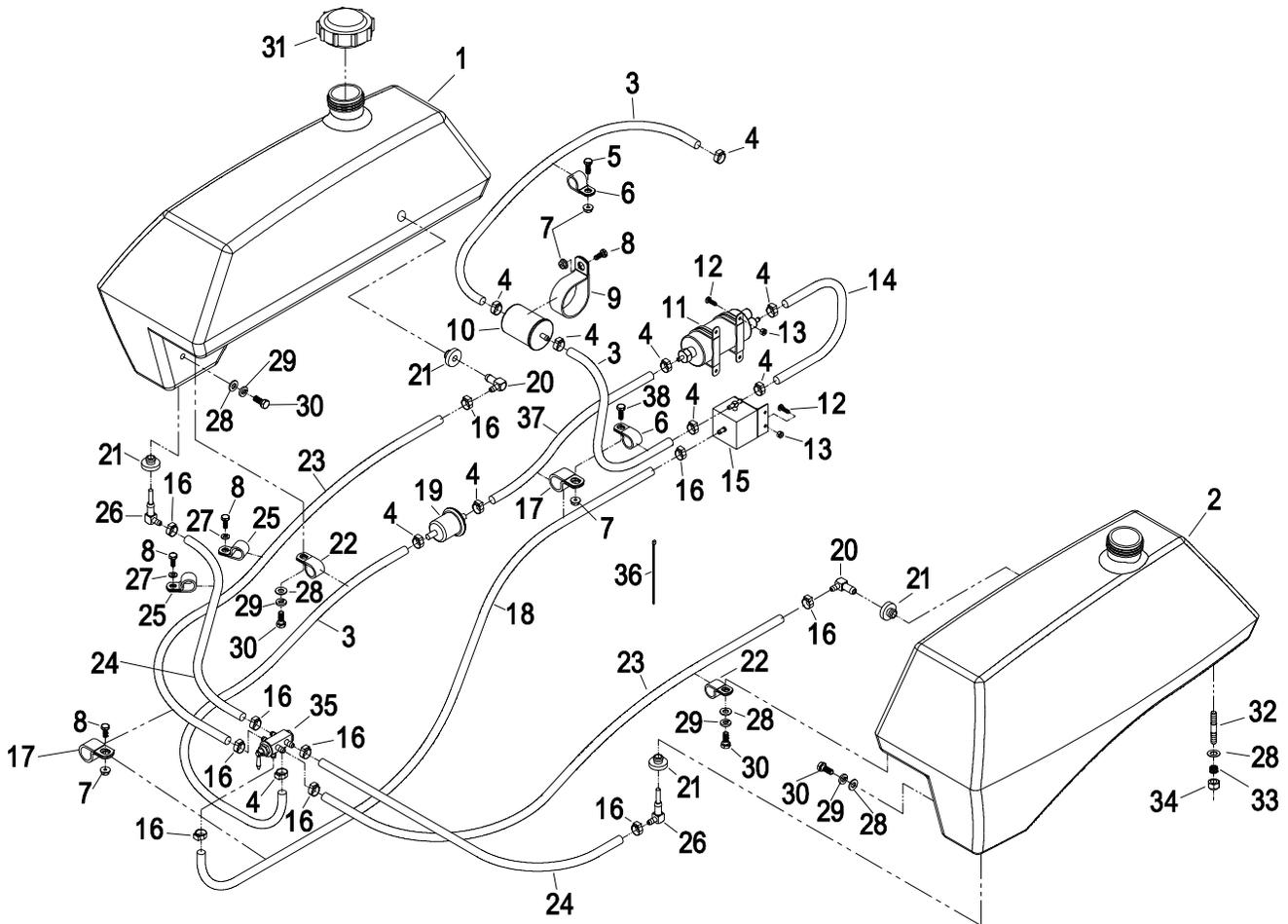
| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-------------------|---------------------------------|-------------|----------|----------|--------------------------------|-------------|
| 1 | 303077 | Clamp, fuel line | 6 | 11 | 633968 | Tank, fuel (RH) | 1 |
| 2 | ⊠ Kohler | Part No. 2405002 Fuel Filter.. | 1 | 12 | 633347 | Valve, fuel | 1 |
| | ⊠ Kawasaki | Part No. 49019-7001 Fuel Filter | 1 | 13 | 633348 | Fuel line | 1 |
| 3 | 513762 | Clip, loom .50 | 2 | 14 | 633349 | Spring, fuel tank..... | 6 |
| 4 | 303335 | Plastic tie (large) | 1 | 15 | 321-3 | Screw, 1/4-20 x 5/8..... | 2 |
| 5 | 513508 | Cap, fuel tank..... | 2 | 16 | 322-3 | Screw, 5/16-18 x 3/4..... | 4 |
| 6 | 513645 | Bushing | 2 | 17 | 3296-47 | Nut, thin nylock 5/16-18 | 6 |
| 7 | 543277 | Elbow, strainer | 2 | 18 | 805004 | Washer, lock 1/4..... | 2 |
| 8 | 543456 | Fuel line..... | 2 | 19 | 805005 | Washer, lock 5/16..... | 4 |
| 9 | ◆ 633023 | Stud, fuel tank | 6 | 20 | 3256-23 | Washer, 5/16 SAE..... | 10 |
| 10* | 633967 | Tank, fuel (LH) | 1 | | | | |

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

* Not Illustrated.

⊠ Refer to Engine Owner's Manual (Fuel Filter **Must** be 15 Micron or smaller).

KOHLER 26 HP EFI FUEL GROUP



| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-----------------------------|-------------------------------|-------------|----------|----------|------------------------------|-------------|
| 1 | 1-643244 | Tank, EFI Fuel (RH) | 1 | 20 | 1-643172 | Elbow, 90° | 2 |
| 2 | 1-643243 | Tank, EFI Fuel (LH) | 1 | 21 | 1-513645 | Bushing, Fuel Valve | 4 |
| 3 | 1-643238 | Fuel line, .31 x 24" | 3 | 22 | 103-0373 | Clip, Loom | 2 |
| 4▲ | 1-643277 | Clamp, .31 I.D. Fuel Hose ... | 10 | 23 | 1-633348 | Fuel Line..... | 2 |
| 5 | 321-4 | Screw, Cap 1/4 -20 x 3/4 | 1 | 24 | 1-543456 | Fuel Line..... | 2 |
| 6 | 1-603727 | Clip, Loom .56..... | 2 | 25 | 1-513762 | Clip, loom .50 | 2 |
| 7 | 32128-33 | Nut, Whizlock 1/4-20 | 4 | 26 | 1-543277 | Elbow, 90° w/strainer..... | 2 |
| 8 | 321-3 | Screw, Cap 1/4 -20 x 5/8 | 3 | 27 | 1-805004 | Washer, lock 1/4 | 2 |
| 9 | 1-643241 | Clip, Loom 2.13 | 1 | 28 | 3256-23 | Washer, flat SAE 5/16..... | 10 |
| 10☒ | Kohler P/N 24 050 03 | Fuel Filter (large) . | 1 | 29 | 1-805005 | Washer, lock 5/16 hvy..... | 4 |
| 11☒ | Kohler P/N 24 393 20 | Fuel Pump | 1 | 30 | 322-3 | Screw, 5/16-18 x 3/4 | 4 |
| 12 | 3290-500 | Screw, Machine #10-24x5/8 | 6 | 31 | 1-513508 | Cap, Fuel Tank..... | 2 |
| 13 | 3296-2 | Nut, Nyloc #10-24 | 6 | 32◆ | 1-633023 | Stud, Fuel Tank..... | 6 |
| 14 | 1-643236 | Fuel Line, .31 x 9 | 1 | 33 | 1-633349 | Spring, Fuel Tank..... | 6 |
| 15☒ | Kohler P/N 24 403 12 | Fuel Regulator..... | 1 | 34 | 3296-47 | Nut, Thin Nyloc 5/16-18..... | 6 |
| 16▲ | 1-643293 | Clamp, .25" | 10 | 35 | 1-643234 | Valve, Fuel Dual Flow | 1 |
| 17 | 1-643312 | Clip, loom..... | 2 | 36 | 1-303287 | Plastic Tie (small | 1 |
| 18 | 1-643235 | Fuel line, .25 x 40" | 1 | 37 | 1-643239 | Fuel line, .31 x 28.0..... | 1 |
| 19 | 99-9403 | Fuel Filter..... | 1 | 38 | 321-6 | Screw, Cap 1/4-20 x 1..... | 1 |

- ◆ Use Prolock, Retaining type (Part No. 1-840023), .5cc tube on stud threads going into the tank.
- ☒ Refer to Engine Owner's Manual (Fuel Filter **Must** be 40 Micron or smaller).
- ▲ Clamps require special pliers P/N 1-643394 (Oetiker P/N 14100118 or Kohler P/N 2445505) for installation.

PARK BRAKE GROUP

| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-------------|-------------------------------|-------------|----------|-------------|--------------------------------|-------------|
| 1 | 1-513140 | Bushing..... | 2 | 19 | 1-808285 | Pin, clevis 3/8 x 1 1/8 | 4 |
| 2 | 1-633454 | Spring, brake rod | 2 | 20 | 325-17 | Screw, 1/2-13 x 4 (52"&60") | 8 |
| 3 | 1-633477 | Rod, brake | 3 | | 1-800334 | Screw, 1/2-13 x 6 (72")..... | 8 |
| 4 | 1-634500 | Lever w/grip | 1 | 21 | 1481 | Zerk, 1/4-28 45° (52"&60") | 2 |
| | 1-632489-03 | Lever, brake..... | 1 | | 302-19 | Zerk, 1/4-28 straight (72") . | 2 |
| 5 | 1-632217-03 | Shaft, brake | 1 | 22 | 103-0131 | Nut, sq reg 1/2-13 UNC-2B | 8 |
| 6❖ | 1-632714-03 | Bracket, brake (LH)(52"&60") | 1 | 23 | 3219-3 | Nut, 3/8-24..... | 8 |
| ❖ | 1-632712-03 | Bracket, brake (LH) (72").... | 1 | 24 | 3290-357 | Nut, whizlock 3/8-16 | 4 |
| 7❖❖ | 1-632715-03 | Bracket, brake (RH)(52"&60") | 1 | 25 | 3253-7 | Washer, lock 1/2 | 8 |
| ❖ | 1-632713-03 | Bracket, brake (RH)(72") | 1 | 26 | 3256-4 | Washer, 3/8 std..... | 4 |
| 8 | 1-809036 | Nut, slotted 1.00-20 | 2 | 27❖ | 3272-10 | Pin, cotter 1/8 x 3/4 | 9 |
| 9❖ | 1-633693 | Band, brake | 2 | 28 | 1-806800 | Pin, cotter 9/64 x 1 1/2 | 2 |
| 10 | 1-633380 | Spacer (short)(52"&60")..... | 4 | 29❖ | 1-808283 | Pin, clevis 3/8 x 2 | 2 |
| | 1-633060 | Spacer (short) (72") | 4 | 30❖ | 3256-28 | Washer, 3/4 SAE | 2 |
| 11 | 1-633382 | Spacer (long)(52"&60")..... | 4 | 31❖ | 32151-48 | E-Ring, retaining..... | 2 |
| | 1-633062 | Spacer (long)(72") | 4 | 32 | 1-523157 | Washer, spacer..... | 2 |
| 12 | 1-633102 | Bearing, flange..... | 2 | 33★ | 103-0352-03 | Bracket, brake (52"& 60")... | 2 |
| 13 | 1-633131 | Yoke..... | 4 | ★ | 103-0354-03 | Bracket, brake (72") | 2 |
| 14 | 1-633144 | Pin, trunion..... | 2 | 34★ | 103-0384 | Spacer | 6 |
| 15❖ | 1-634927 | Hub & drum w/studs, wheel | 2 | 35★ | 103-0355 | Band, Brake..... | 2 |
| ◆ | 1-633926 | Studs, wheel | 8 | 36★ | 103-0374 | Retainer, Brake Band..... | 2 |
| 16 | 1-807020 | Woodruff key, 5/16X1 | 2 | 37★ | 322-9 | Screw, HH .312-18x1.75 | 6 |
| 17 | 1-633268 | Grip, brake lever | 1 | 38★ | 103-0590 | Hub & drum w/studs, wheel | 2 |
| 18 | 323-4 | Screw, 3/8-16 x 3/4..... | 4 | ◆ | 1-633926 | Studs, wheel..... | 8 |

◆ Not Illustrated

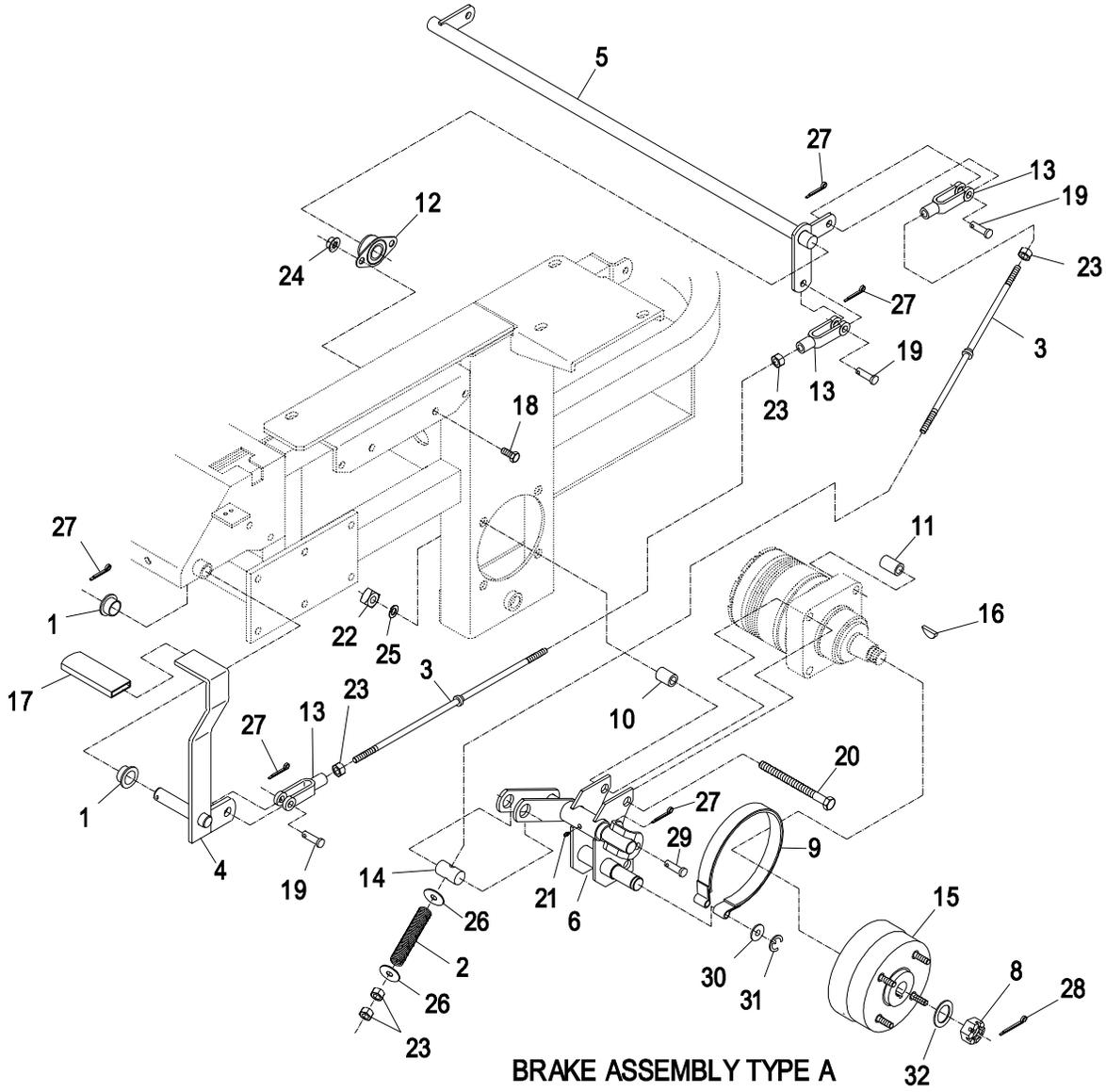
Reference the picture on the next page to determine if your unit uses Park Brake Type A or B:

❖ A Component used with Park Brake Type A.

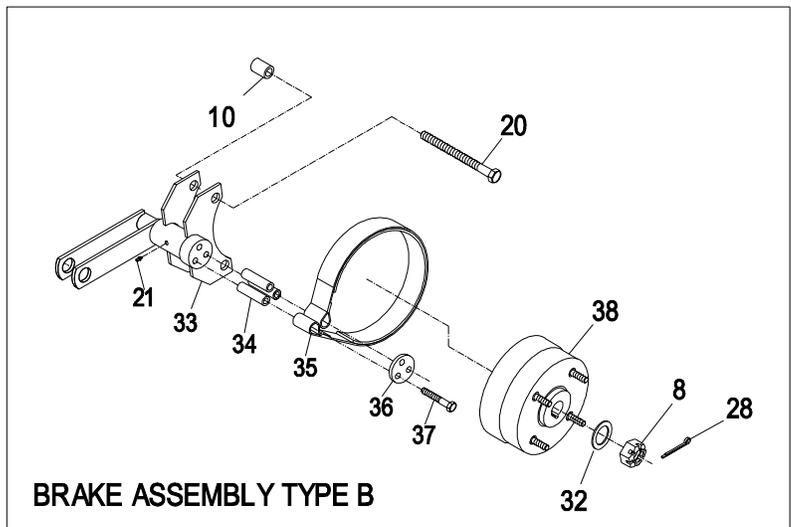
★ A Component used with Park Brake Type B.

Exmark black touch up spray paint - gloss black

PARK BRAKE GROUP

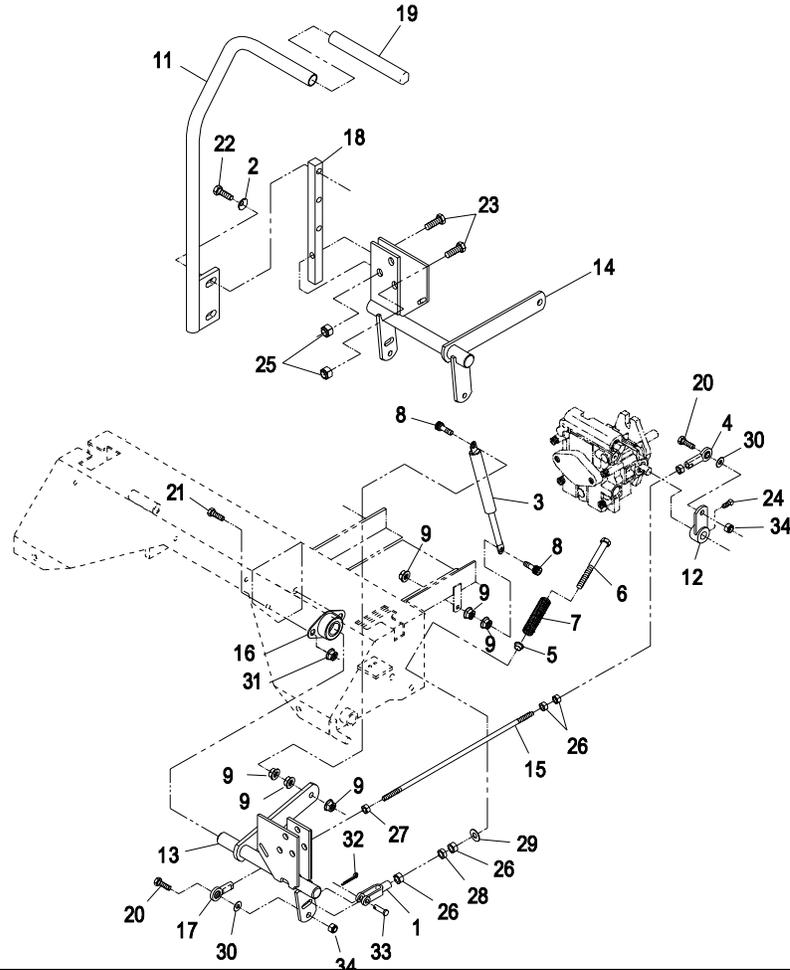


BRAKE ASSEMBLY TYPE A



BRAKE ASSEMBLY TYPE B

MOTION CONTROL LEVERS



| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-------------|------------------------------------|-------------|----------|----------|-----------------------------------|-------------|
| 1 | 1-303105 | Yoke | 2 | 16 | 1-633102 | Bearing, flanged..... | 4 |
| 2 | 98-5975 | Washer, disc spring 3/8 | 4 | 17 | 1-633152 | Ball joint (LH) | 2 |
| 3 | 1-523027 | Damper | 2 | 18φ | 103-0407 | Arm, control shaft..... | 2 |
| 4 | 1-543017 | Ball joint (RH) | 2 | | 1-633177 | Arm, control shaft..... | 2 |
| 5 | 1-603735 | Bushing, nylon (reverse ind) | 2 | 19 | 1-633257 | Grip, motion control handle | 2 |
| 6 | 1-603737 | Bolt, (neutral return) | 2 | 20 | 322-6 | Screw, 5/16-18 x 1 1/4 | 4 |
| 7 | 1-603807 | Spring, (neutral return) | 2 | 21 | 323-4 | Screw, 3/8-16 x 3/4 | 8 |
| 8 | 1-403180 | Screw, 5/16-18x1 3/8 special | 4 | 22 | 323-7 | Screw, 3/8-16 x 1 | 4 |
| 9 | 32128-20 | Nut, whizlock 5/16-18 | 12 | 23 | 323-9 | Screw, 3/8-16 x 1 3/4 | 6 |
| 10*φ | 103-0631 | Handle w/grip (LH) | 1 | 24 | 1-803022 | Set screw, 5/16 x 5/8 | 2 |
| | 1-634258 | Handle w/grip (LH) | 1 | 25 | 3296-39 | Nut, nyloc 3/8-16..... | 6 |
| φ | 103-0409-03 | Handle, motion control (LH) | 1 | 26 | 3219-2 | Nut, 5/16-24 | 10 |
| | 1-632191-03 | Handle, motion control (LH) | 1 | 27 | 1-804524 | Nut, 5/16-24 (LH) | 2 |
| 11φ | 103-0632 | Handle w/grip (RH)..... | 1 | 28 | 3220-2 | Nut, jam 5/16-24 | 2 |
| | 1-634259 | Handle w/grip (RH)..... | 1 | 29 | 3256-2 | Washer, 1/4 | 2 |
| φ | 103-0410-03 | Handle, motion control (RH) | 1 | 30 | 3256-3 | Washer, 5/16 std | 4 |
| | 1-632193-03 | Handle, motion control (RH) | 1 | 31 | 3290-357 | Nut, whizlock 3/8-16..... | 8 |
| 12 | 1-632208-03 | Arm, pump control..... | 2 | 32 | 3272-5 | Pin, cotter 3/32 x 1/2..... | 2 |
| 13 | 1-642319 | Bracket, motion control (LH) | 1 | 33 | 1-808280 | Pin, clevis 5/16 x 1 | 2 |
| 14 | 1-642320 | Bracket, motion control (RH) | 1 | 34 | 3296-29 | Nut, nyloc 5/16-18..... | 4 |
| 15 | 1-633153 | Link, pump control..... | 2 | | | | |

* Not Illustrated.

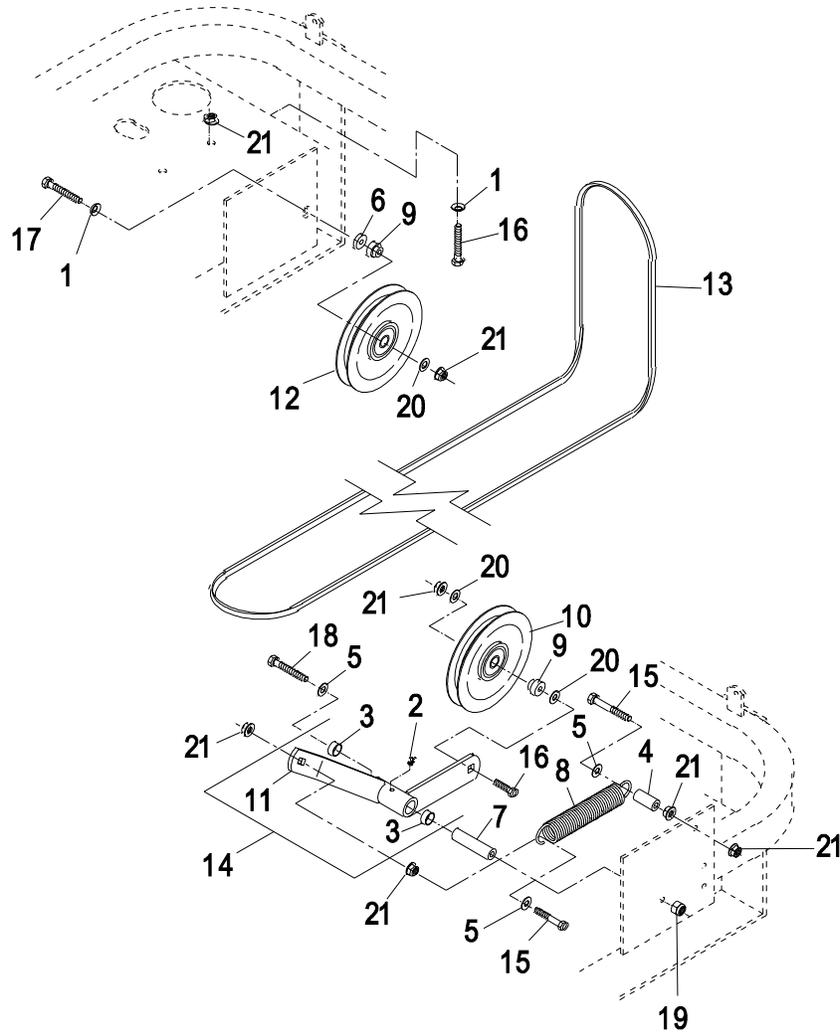
Exmark black touch up spray paint - gloss black

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

Components required for units with older motion control assemblies (Identified by 2 holes in upper portion of motion control shaft (item 18))

φ Components required for units with newer motion control assemblies (Identified by 3 holes in upper portion of motion control shaft (item 18))

COMMON ENGINE DECK GROUP



| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-------------|-------------------------------|-------------|----------|----------|-----------------------------------|-------------|
| 1 | 98-5975 | Washer, spring disc 3/8 | 5 | 12 | 1-633166 | Pulley, idler..... | 1 |
| 2 | 302-40 | Zerk, 1/4-20 (90°)..... | 1 | 13 | 1-633173 | Belt, mule drive | 1 |
| 3 | 1-513034 | Bearing..... | 2 | 14 | 1-632469 | Arm, idler w/bushings..... | 1 |
| 4 | 1-603401 | Spacer, spring..... | 1 | 15 | 323-11 | Screw, 3/8-16 x 2 1/4 | 2 |
| 5 | 3256-4 | Washer, 3/8 | 3 | 16 | 323-9 | Screw, 3/8-16 x 1 3/4 (Koh) | 5 |
| 6 | 1-603050 | Spacer | 1 | | 323-9 | Screw, 3/8-16 x 1 3/4 (Kaw) | 1 |
| 7 | 1-603384 | Bushing, idler pivot..... | 1 | 17 | 323-13 | Screw, 3/8-16 x 2 3/4 | 1 |
| 8 | 1-603402 | Spring, mule idler | 1 | 18 | 1-800805 | Screw, 3/8-16 x 3 1/2 | 1 |
| 9 | 1-603496 | Bushing, idler | 2 | 19 | 3296-39 | Nut, nyloc 3/8 | 1 |
| 10 | 1-603805 | Pulley, idler | 1 | 20 | 3256-24 | Washer, 3/8 sae..... | 3 |
| 11 | 1-632468-03 | Arm, idler | 1 | 21 | 3290-357 | Nut, whizlock 3/8-16..... | 10 |

Exmark black touch up spray paint - gloss black

AIR-COOLED ENGINE DECK GROUP

| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-------------|--------------------------------------|-------------|----------|----------|----------------------------------|-------------|
| 1 | 1-643315 | Baffle, Engine Cooler | 1 | 33 | 32128-33 | Nut, whizlock 1/4-20 | 5 |
| 2 | 1-303335 | Plastic tie | 1 | 34 | 1-633396 | Clip, loom .56..... | 1 |
| 3 | 1-523420 | Bumper, rubber | 2 | 35 | 1-809076 | Screw, M6-1.0 x 45mm | |
| 4 | 322-6 | Screw, Cap 5/16x1 ¼ (Warner) | 1 | | | (23 hp & 25 hp Koh) | 2 |
| 5 | 1-633630 | Grommet (all clutches) | 2 | | 32144-57 | Screw, 5/16-18x1.75 | |
| 6 | 1-603610 | Wshr, spring disc (all clutches). | 2 | | | (23 hp Kaw & 26 hp Koh) | 2 |
| 7 | 1-633615-03 | Guard, rear engine | 1 | 36 | 1-323235 | Washer, disc spring | |
| 8 | 1-633543-03 | Strap, clutch (all clutches) | 1 | | | (23 hp & 25 hp Koh only)..... | 2 |
| 9 | 103-0662 | Clutch w/tie (23HP) | 1 | 37 | 1-323236 | Spacer | 2 |
| | 103-0665 | Clutch w/tie (25&26HP)..... | 1 | 38 | 1-633545 | Spacer, Grommet (all clutches) . | 2 |
| 10 | 1-633453 | Spacer (23 HP) | 1 | 39 | 1-633988 | Spacer, clutch anchor (Warner). | 1 |
| | 1-633179 | Spacer (25 & 26 HP) | 1 | 40 | 3296-29 | Nut, nyloc 5/16-18 (Warner) | 1 |
| 11 | 1-634308 | Shield, lift – subassy (Koh) | 1 | | 3296-29 | Nut, nyloc 5/16-18 (Ogura) | 2 |
| | 103-1301 | Shield, lift – subassy (Kaw).... | 1 | 41 | 3256-63 | Washer, 3/16 std. | 6 |
| 12 | 103-1308 | Shield, engine | 1 | 42∇ | 1-543232 | Nipple, pipe 3/8 NPT (Koh) | 1 |
| 13 | 1-633300-03 | Shield, lift (Koh) | 1 | 43∇ | 1-303428 | Elbow, 3/8 NPT (Koh) | 1 |
| | 103-1304-03 | Shield, lift (Kaw)..... | 1 | 44 | 322-14 | Screw, 5/16-18 x 3.0 (Ogura) .. | 1 |
| 14 | 1-634796 | Shield (LH) - subassy (Koh) ... | 1 | 45 | 1-633082 | Spacer, clutch anchor (Ogura)... | 1 |
| | 103-0241 | Shield (LH) - subassy (Kaw) .. | 1 | 46 | 322-7 | Screw, 5/16-18 ½ (Ogura) | 1 |
| 15 | 1-633301 | Shield, heat (Koh)..... | 2 | 47 | 1-643179 | Spacer, clutch (Ogura) | 1 |
| | 103-0243 | Shield, heat (Kaw) | 2 | 48 | 1-641212 | Clutch w/tie (Ogura)..... | 1 |
| 16 | 1-633795-03 | Baffle, engine (LH) | 1 | 49 | 1-643180 | Keeper, clutch (Ogura) | 1 |
| 17 | 1-643313-03 | Shield, muffler | 1 | 50 | 1-807261 | Key, ¼ x ¼ x 2.0 (Ogura) | 1 |
| 18 | 1-644316 | Shield (RH) - subassy (Koh).... | 1 | 51* | 103-1594 | Muffler,kit 26hp EFI Kohler ... | 1 |
| | 103-0242 | Shield (RH) - subassy (Kaw)... | 1 | | 103-1595 | Muffler,kit 23hp Kaw | 1 |
| 19 | 1-523285 | Clip, shield (Koh) | 2 | 52 | 9266934 | Screw, 5/16-18x.5 | |
| | 1-523285 | Clip, shield (Kaw)..... | 4 | | | (23 hp Kaw & 26 hp Koh) | 2 |
| 20 | 1-633794-03 | Baffle, engine (RH)..... | 1 | 53 | 324-2 | Screw, 7/16-14x.75 g5 | |
| 21 | 322-19 | Screw, 5/16-18x4 (Warner) | 1 | | | (23 hp Kaw & 26 hp Koh) | 2 |
| 22 | 321-4 | Screw, 1/4-20 x ¾ | 10 | 54 | 3253-6 | Washer, Lock 7/16 | |
| 23 | 1-613235 | Washer (Warner) | 4 | | | (23 hp Kaw & 26 hp Koh) | 2 |
| | 1-613235 | Washer (25 hp Ogura) | 5 | 55 | 33014-00 | Nut, Hex M8 1.25 | |
| 24 | 323-6 | Screw, 3/8-16 x 1 | 8 | | | (23 hp Kaw & 26 hp Koh) | 4 |
| | 323-6 | Screw, 3/8-16 x 1 (26hp Koh)... | 9 | 56 | 1-805005 | Washer, Lock 5/16hvy | |
| 25∩ | 3212-10 | Screw, 7/16-20x2 ½(all clutches)1 | | | | (23 hp Kaw & 26 hp Koh) | 4 |
| 26 | 1-803035 | Rivet, 3/16 x ¼ (Koh) | 11 | 579 | 103-0152 | Keeper, Clutch | 1 |
| | 1-803035 | Rivet, 3/16 x ¼ (Kaw) | 13 | 58 | 1-653291 | Gasket (Koh) | 2 |
| 27 | 3296-42 | Nut, nyloc 1/4-20 | 6 | | 1-653313 | Gasket (Kaw) | 2 |
| 28 | 1-643264-03 | Bracket, guard top | 2 | 59 | 103-1513 | Arrester, Spark (1.25) | 1 |
| 29 | 3256-2 | Washer, 1/4 std | 4 | | | (26 hp Koh EFI & 23 hp Kaw) | |
| 30 | 3256-3 | Washer, 5/16 std (all clutches). ... | 1 | 60 | 103-1514 | Clamp,Muffler (1.38) | 1 |
| 31 | 32128-20 | Nut,whzck 5/16-18 (Warner)... | 1 | | | (26 hp Koh EFI & 23 hp Kaw) | |
| 32 | 3290-357 | Nut, whzck 3/8-16 | 8 | | | | |
| | 3290-357 | Nut, whzck 3/8-16 (26hp Koh)... | 9 | | | | |

∇ Use a Teflon Pipe Sealant or equivalent on threads.

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

* The muffler for 23 & 25 HP Kohler units comes with the engine.

9 For 23 HP Kawasaki air-cooled units only

Exmark black touch up spray paint - gloss black

Kohler Replacement Parts List

(Refer to Engine Owner's Manual)

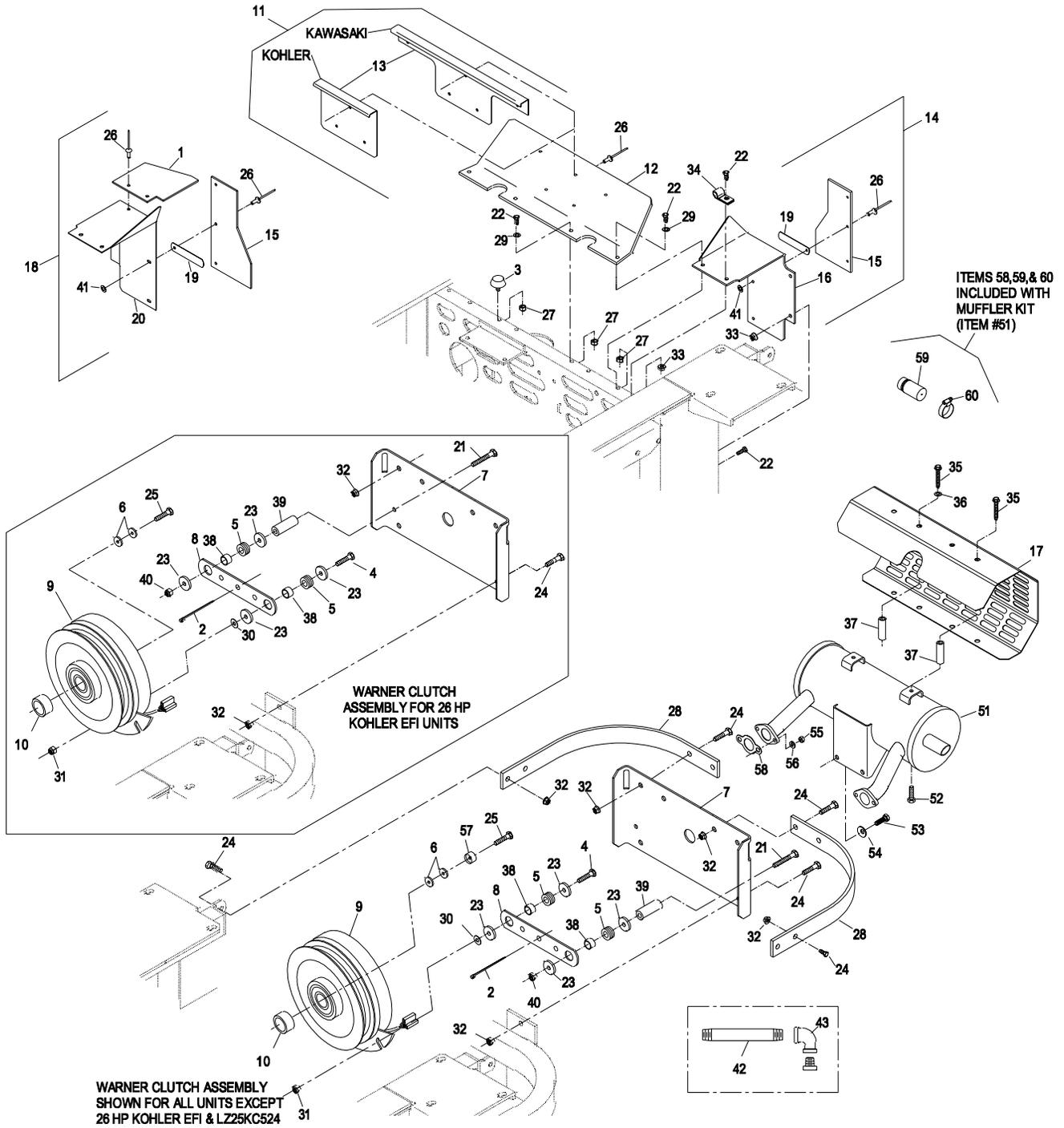
| <u>Description</u> | <u>Kohler Part No.</u> |
|--------------------|---------------------------------|
| Engine Oil Filter | 5205002 |
| Air Precleaner | (23hp Engine) 2408302 |
| | (For 25hp Engine) 2408305 |
| Air Filter | (For 23hp Engine) 4708303 |
| | (For 25hp Engine) 2408303 |
| | (For 26hp EFI Engine) 2508301 |
| Safety Filter | (For 26hp EFI Engine) 2508304 |

Kawasaki Replacement Parts List

(Refer to Engine Owner's Manual)

| <u>Description</u> | <u>Kawasaki Part No.</u> |
|--------------------|--------------------------|
| Engine Oil Filter | 49065-2078 |
| Air Filter | 11029-7002 |

AIR-COOLED ENGINE DECK GROUP



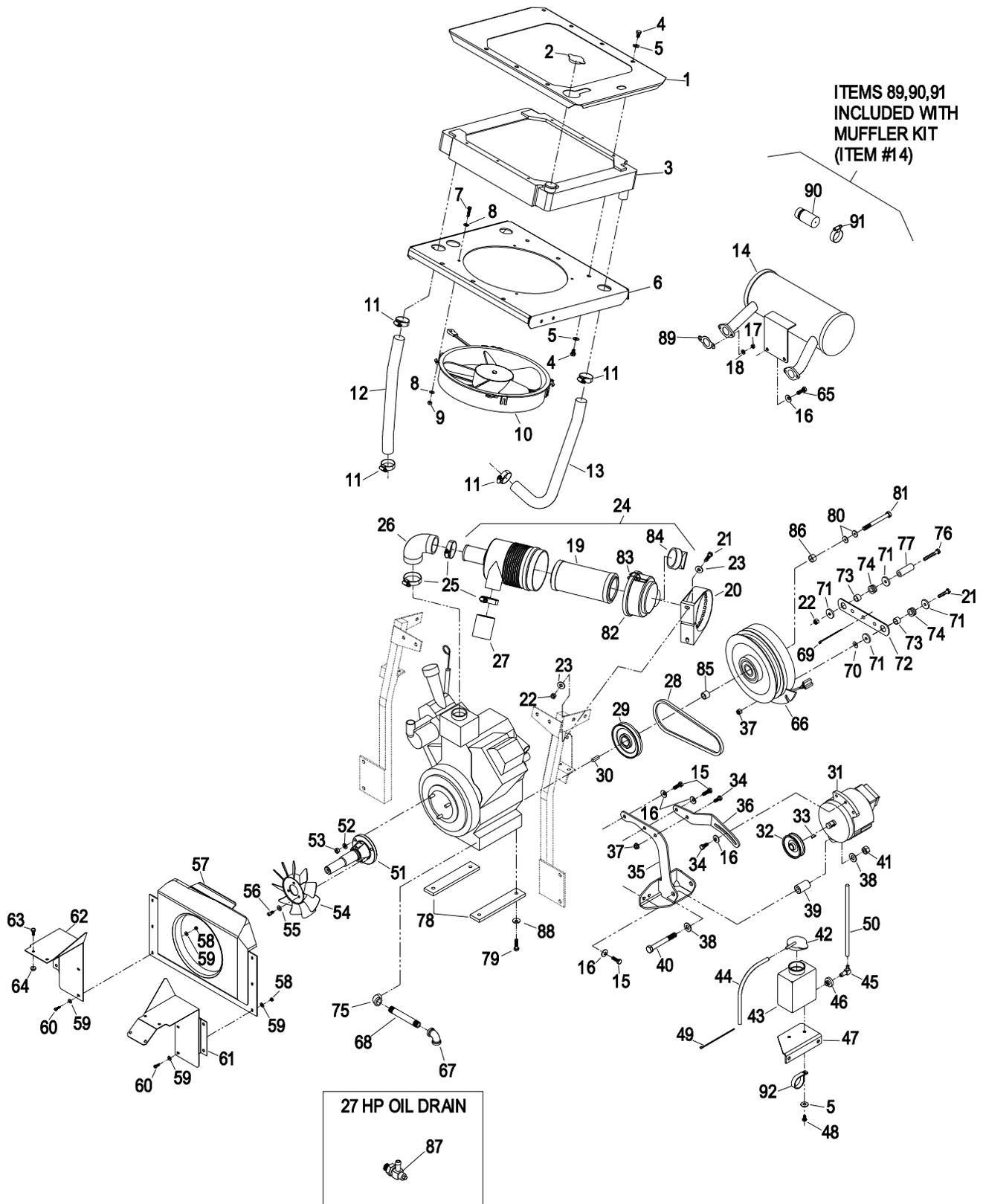
KAWASAKI LIQUID-COOLED ENGINE DECK GROUP

| Ref No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|---------|-------------|-------------------------------|-------------|----------|-------------|-----------------------------------|-------------|
| 1 | 1-633902-03 | Plate, Radiator Trim Face. | 1 | 46 | 1-513645 | Bushing, Fuel Valve..... | 1 |
| 2 | 1-643161 | Cap, Radiator..... | 1 | 47 | 1-643024-03 | Bracket, Bottle..... | 1 |
| 3 | 1-633829 | Radiator, Horiz. Mount(23 hp) | 1 | 48 | 321-2 | Screw, Cap Hex 1/4-20x1/2 | 2 |
| | 103-1046 | Radiator, horiz. Mount(27 hp) | 1 | 49 | 1-303287 | Plastic Tie 5.5x.044x.1 | 3 |
| 4 | 322-1 | 5/16-18x1/2 HHC Screw... | 12 | 50 | 1-643129 | Hose, .31 ID x 27.00"..... | 1 |
| 5 | 3256-23 | Washer, Flat SAE 5/16.... | 14 | 51 | 1-633851 | Extension, Crankshaft..... | 1 |
| 6 | 1-633888-03 | Plate, Radiator/Fan Mnt.... | 1 | 52 | 1-805005 | Washer, Lock 5/16..... | 3 |
| 7 | 1-803067 | Scrw,12-24x1.0HSHWMach4 | 4 | 53 | 33014-00 | Nut, Hex M8..... | 3 |
| 8 | 3256-16 | Washer, Flat Std #12..... | 8 | 54 | 1-633869 | Fan, Pump Cooling | 1 |
| 9 | 1-804254 | Nut, Nyloc HH #12-24..... | 4 | 55 | 3256-22 | Washer, Flat SAE 1/4 | 3 |
| 10 | 1-633831 | Fan Assy, 12" Hi Profile ... | 1 | 56 | 1-809095 | Screw,HexScket 1/4-20x1/2 | 3 |
| 11 | 1-633989 | Clamp,Hose-worm .75-1.50 | 4 | 57 | 103-0098 | Shroud, Hydraulic Fan(..... | 1 |
| 12 | 1-633894 | Hose, Radiator Inlet (23 hp) | 1 | 58 | 3296-2 | Nut, Nyloc #10-24 | 6 |
| | 103-0074 | Hose, Radiator Inlet (27 hp) | 1 | 59 | 3256-14 | Washer, Flat Std #10..... | 12 |
| 13 | 1-633895 | Hose, Rad. Outlet (23 hp)... | 1 | 60 | 3290-500 | Screw, Mach #10-24x5/8 ... | 6 |
| | 103-0075 | Hose, Rad. Outlet (27 hp)... | 1 | 61 | 103-0895-03 | Shield, LH Liquid | 1 |
| 14 | 103-1553 | Muffler,kit (23 hp)..... | 1 | 62 | 1-633794-03 | Shield, RH Eng Shield..... | 1 |
| | 103-1557 | Muffler,kit (27 hp)..... | 1 | 63 | 321-4 | Screw, Cap HH 1/4-20x5/8 | 6 |
| 15♦ | 33114-025 | Screw, M8-1.25x25mm..... | 4 | 64 | 32128-33 | Nut, Whizlock 1/4-20..... | 6 |
| 16 | 1-303334 | Wshr, Disc Sprg 5/16(23 hp) | 7 | 65 | 3314-016 | Screw, M8-1.25x16mm(23hp) | 2 |
| | 1-303334 | Wshr, Disc Sprg 5/16(27 hp) | 2 | | 33115-020 | Screw, M10-1.5x20mm(27hp) | 2 |
| 17 | 33013-00 | Nut, Hex M6 | 4 | 66 | 103-1364 | Clutch w/tie | 1 |
| 18 | 1-805004 | Washer, Lock 1/4 Hvy | 4 | 67▽♦ | 1-303428 | Elbow, 90° | 1 |
| 19 | 93-2195 | Element, filter Primary | 1 | 68▽♦ | 1-643167 | Nipple, 3/8 npt x 4.5 | 1 |
| 20 | 95-5806 | Bracket, air cleaner mount | 1 | 69 | 1-303335 | Tie, plastic..... | 1 |
| 21 | 322-6 | Screw, Cap 5/16-18x1-1/4 | 3 | 70 | 3256-3 | Washer, 5/16 std..... | 1 |
| 22 | 3296-29 | Nut, Nyloc 5/16-18 | 3 | 71 | 1-613235 | Washer | 4 |
| 23 | 3256-3 | Washer, Flat Std 5/16..... | 4 | 72 | 1-633543-03 | Strap, Clutch/Brake..... | 1 |
| 24 | 95-5805 | Cleaner, remote air w/filter | 1 | 73 | 1-633545 | Spacer, Grommet | 2 |
| 25 | 1-643009 | Clamp, Hose 1.31-2.25..... | 3 | 74 | 1-633630 | Grommet..... | 2 |
| 26♦ | 1-643083 | Hose, Air cleaner | 1 | 75▽♦ | 1-403124 | Elbow, Street | 1 |
| 27 | 1-643084 | Hose, Air inlet | 1 | 76 | 322-38 | Screw, Cap HH 5/16-18x4.5 | 1 |
| 28♦ | 1-633853 | Belt, Alternator | 1 | 77 | 1-643008 | Spacer, Clutch Anchor | 1 |
| 29♦ | 1-633841 | Sheave w/hub | 1 | 78♦ | 1-643007-03 | Spacer, Engine | 2 |
| 30 | 1-807259 | Key, Mach 1/4x1/4x1 | 1 | 79 | 32114-030 | Screw, M8-1.25x30mm(23hp) | 4 |
| 31♦ | 1-633881 | Alternator | 1 | | 32115-025 | Screw, M10-1.5x25mm(27hp) | 4 |
| | ♦ 1-643158 | Regulator, Alternator..... | 1 | 80 | 1-603610 | Washer, disc spring 7/16 ... | 2 |
| | ♦ 1-643159 | Brushes, Alternator..... | 1 | 81 | 48-7570 | Screw, Cap M10x1.5x65mm | 1 |
| | ♦ 1-643160 | Bearing, Alternator..... | 1 | 82 | 94-3652 | Cover w/latch | 1 |
| 32♦ | 1-633882 | Sheave, Alternator | 1 | 83 | 1-643283 | Latch, Air cleaner | 2 |
| 33♦ | 1-807004 | Key..... | 1 | 84 | 87-9400 | Vacuator Valve..... | 1 |
| 34♦ | 322-3 | Screw, CapHH5/16-18x3/4 | 1 | 85 | 1-633179 | Spacer, Clutch (23 hp) | 1 |
| 35♦ | 1-632835 | Bracket, Alternator | 1 | | 103-0114 | Spacer, Clutch (27 hp) | 1 |
| 36♦ | 1-633838 | Arm, Alternator tension. | 1 | 86 | 103-0152 | Keeper, Clutch (27 hp)..... | 1 |
| 37 | 32128-20 | Nut, Whzlck 5/16-18 (23 hp) | 2 | 87▽ | 103-0161 | Valve, Oil Drain (27 hp only).. | 1 |
| | 32128-20 | Nut, Whzlck 5/16-18 (27 hp) | 1 | 88 | 1-303334 | Wshr, Disc Sprg 5/16(23 hp) | 4 |
| 38♦ | 3256-26 | Washer, flat SAE 1/2 | 2 | | 98-5975 | Wshr, Disc Sprg 3/8(27 hp) . | 4 |
| 39♦ | 1-633839 | Spacer | 1 | 89 | 103-1563 | Gasket, Exhaust (22/23 hp) .. | 2 |
| 40♦ | 325-17 | Screw, Cap HH 1/2-13x4.. | 1 | | 103-1564 | Gasket, Exhaust (27 hp) | 2 |
| 41♦ | 3296-23 | Nut, Nyloc 1/2-13 | 1 | 90 | 103-1513 | Arrester, Spark (22/23 hp) (1.25) | 1 |
| 42 | 1-643164 | Cap, Overflow Tank | 1 | | 103-1511 | Arrester, Spark (27 hp) (1.50) | 1 |
| 43 | 1-643163 | Tank, Overflow (2.0 pts) | 1 | 91 | 103-1514 | Clamp, Muffler (22/23 hp) (1.38). | 1 |
| 44 | 1-643131 | Hose, .25 ID x 22.00" | 1 | | 103-1512 | Clamp, Muffler (27 hp) (1.63).. | 1 |
| 45 | 1-643259 | Elbow, 90deg | 1 | 92 | 103-0113 | Clip,loom | 1 |

Replacement Engine Oil Filter - **Kawasaki** Part No. 49065-2078
 Exmark black touch up spray paint – gloss black

▽ Use a Teflon Pipe Sealant or equivalent on threads.
 ♦ For 23 hp Kawasaki Liquid-Cooled units only

KAWASAKI LIQUID-COOLED ENGINE DECK GROUP



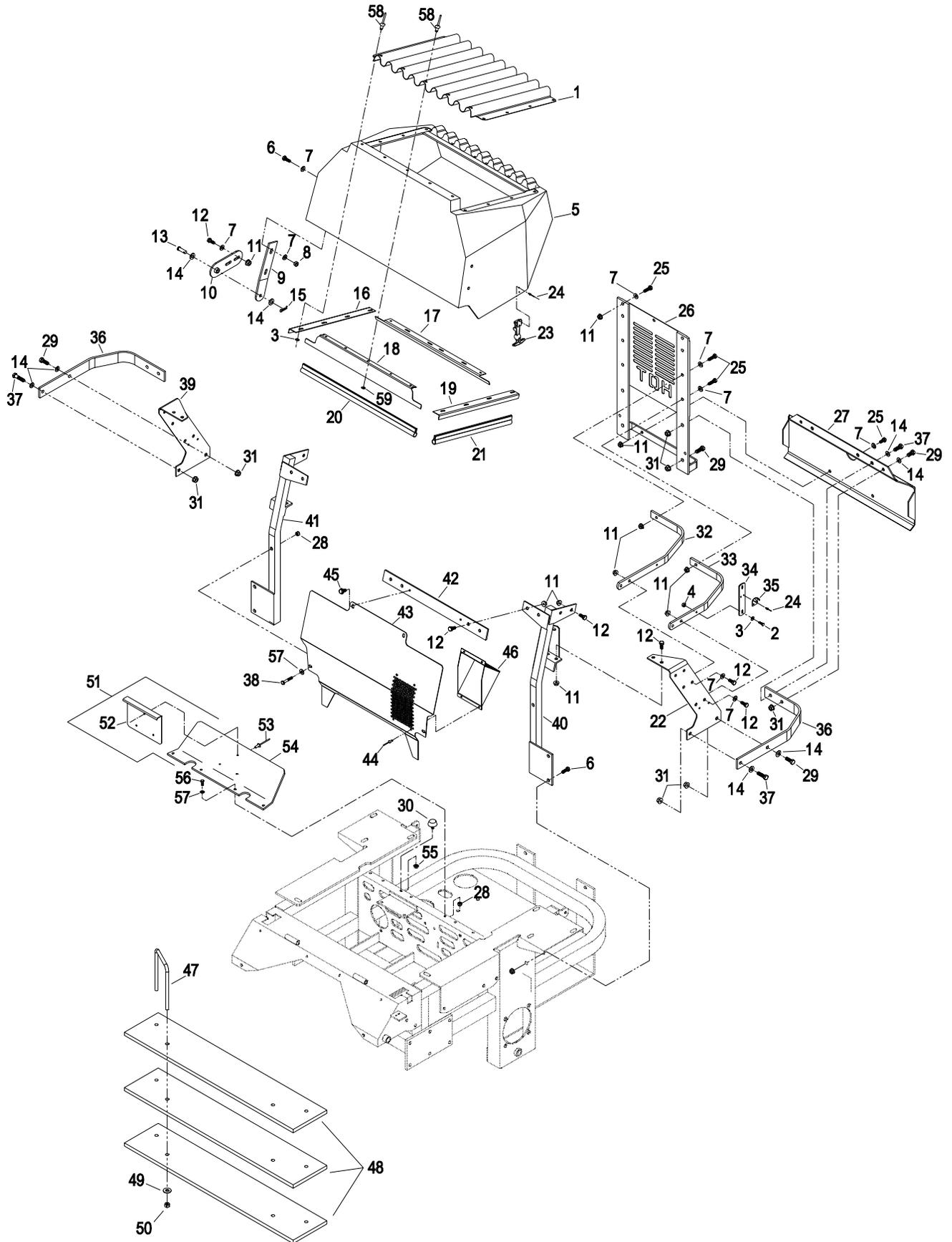
KAWASAKI LIQUID-COOLED ENGINE DECK GROUP (cont.)

| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-------------|-------------------------------|-------------|----------|-------------|-----------------------------------|-------------|
| 1 | 1-633864-03 | Screen, Radiator Intake | 1 | 33 | 1-633898-03 | Rib, Bottom | 2 |
| 2 | 1-803069 | Screw, 10-24X.75 BHSCap | 4 | 34 | 1-633877-03 | Bar, Latch Hook..... | 2 |
| 3 | 3256-14 | Washer, Flat Std #10 | 16 | 35 | 1-643189 | Keeper, Rubber Latch | 2 |
| 4 | 3296-2 | Nut, Nyloc #10-24 | 4 | 36 | 1-633896-03 | Bar, Rad. Mnt. Frame..... | 2 |
| 5 | 1-633857 | Hood, Engine Gray..... | 1 | 37 | 323-7 | Screw,Cap HH 3/8-16x1-1/4 | |
| ★ | 103-1044 | Hood, w/decals | 1 | 38 | 323-9 | Screw,Cap HH 1/4-20x1 1/22 | |
| 6 | 322-4 | Screw,Cap HH 5/16-18x7/8 | 8 | 39 | 103-0897-03 | Plate, Side Rad. Mnt. RH . | 1 |
| 7 | 3256-23 | Washer, Flat SAE 5/16 | 21 | 40 | 1-632984-03 | Brace, Radiator-LH (23 hp). | 1 |
| 8 | 3296-29 | Nut, Nyloc 5/16-18 | 4 | | 103-0107-03 | Brace, Radiator-LH (27 hp). | 1 |
| 9 | 1-633885-03 | Plate, Hood Hinge | 2 | 41 | 1-632985-03 | Brace, Radiator-RH | 1 |
| 10 | 1-632986-03 | Hinge, Shackle wld | 2 | 42 | 1-633878-03 | Crossbar | 1 |
| 11 | 32128-20 | Nut, Whizlock 5/16-18 | 37 | 43 | 1-643087-03 | Deflector, Air..... | 1 |
| 12 | 322-3 | Screw,Cap 5/16-18x3/4 ... | 24 | 44 | 3269-3 | Pop Rivet- Stl 3/16x.250... | 4 |
| 13 | 1-808285 | Pin, Clevis 3/8x1 1/8 | 2 | 45 | 49-2040 | Screw, Tapping1/4-20x.75 | 2 |
| 14 | 3256-24 | Washer, Flat SAE 3/8 | 12 | 46 | 1-643096-03 | Plenum, Air intake (23 hp) .. | 1 |
| 15 | 1-806003 | Pin, Hair Cotter .080 #2 | 2 | | 103-0110-03 | Plenum, Air intake (27 hp) .. | 1 |
| 16 | 1-643106-03 | Angle, Rad. Trim Side RH. | 1 | 47 | 103-0221 | U-bolt (72" deck, 27 hp) | 2 |
| 17 | 1-643108-03 | Angle, Rad. Trim Bottom .. | 1 | | 1-643147 | U-bolt (all except 72"deck, 27hp) | 2 |
| 18 | 1-643107-03 | Angle, Rad. Trim Top..... | 1 | 48 | 1-643150-01 | Weight Bar (52" deck, 23 hp). | 4 |
| 19 | 1-643105-03 | Angle, Rad. Trim Side LH . | 1 | | 103-0217-01 | Weight Bar (60" deck, 23 hp). | 2 |
| 20 | 1-643187 | Seal, Trim - 20" Length. | 2 | | 103-0217-01 | Weight Bar (60" deck, 27 hp). | 3 |
| 21 | 1-643186 | Seal, Trim - 14" Length | 2 | | 103-0885-01 | Weight Bar (72" deck, 27 hp). | 1 |
| 22 | 103-0896-03 | Plate, Side Rad. Mnt. LH .. | 1 | 49 | 3256-4 | Washer, flat Std 3/8..... | 4 |
| 23 | 1-643188 | Latch, EPDM Rubber | 2 | 50 | 3296-39 | Nut, Nyloc 3/8-16..... | 4 |
| 24 | 923786 | Pop Rivet. | 8 | 51 | 1-634308 | Shield, lift - subassembly.. | 1 |
| 25 | 322-5 | Screw, Cap 5/16-18x1 | 9 | 52 | 1-633300-03 | Shield, lift | 1 |
| 26 | 1-632873-03 | Radiator Mount weld-rear . | 1 | 53 | 1-803035 | Rivet, Alum. 3/16x1/4 | 3 |
| 27 | 1-633886-03 | Bumper, Rear..... | 1 | 54 | 103-1308 | Shield, engine | 1 |
| 28 | 3296-42 | Nut, Nyloc 1/4-20 | 6 | 55 | 32128-33 | Nut, Whizlock 1/4-20 | 2 |
| 29 | 323-6 | Screw, Cap Hex 3/8-16x1 . | 6 | 56 | 321-4 | Screw, 1/4-20x3/4..... | 4 |
| 30 | 1-523420 | Bumper, rubber | 2 | 57 | 3256-2 | Washer, 1/4 std | 6 |
| 31 | 3290-357 | Nut, Whizlock 3/8-16..... | 10 | 58 | 1-803072 | Rivet, Bulbex .19 x1.07 | 17 |
| 32 | 1-633897-03 | Rib, Top | 2 | 59 | 1-303435 | Washer, Spring Disc .25 .. | 5 |

Exmark black touch up spray paint – gloss black

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

KAWASAKI LIQUID-COOLED ENGINE DECK GROUP (cont.)



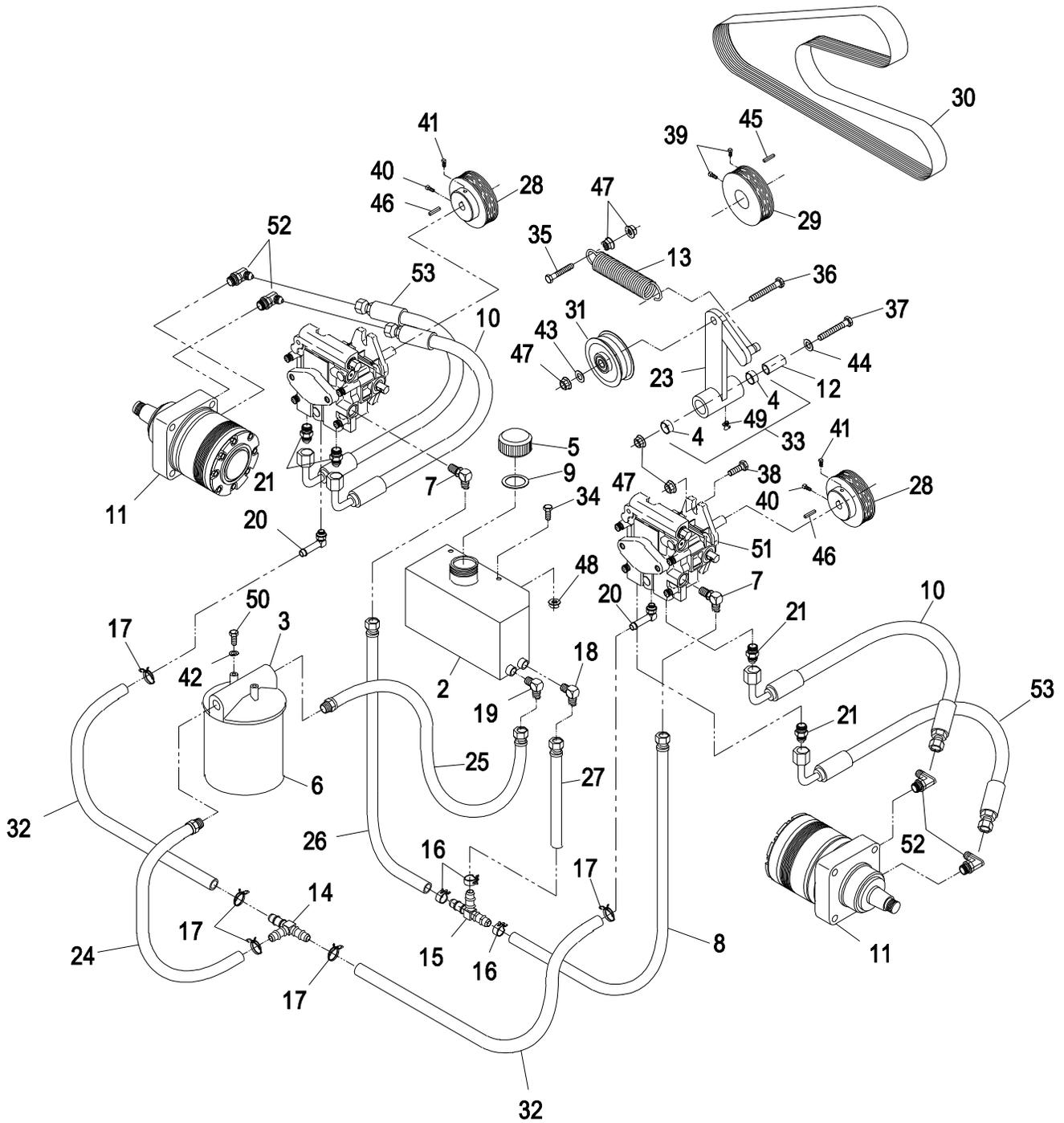
HYDRAULIC GROUP

| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-------------|----------------------------------|-------------|----------|----------|--------------------------------|-------------|
| 1 | 1-403102 | Hose, Lower 52" & 60" | 2 | 26 | 1-632285 | Hose, low pressure (11 ¼") | 1 |
| 2∇ | 1-512166-03 | Tank, hydraulic reservoir ... | 1 | 27 | 1-632286 | Hose, low pressure (4") | 1 |
| 3∇ | 1-513006 | Head, filter..... | 1 | 28 | 1-633568 | Sheave, pump | 2 |
| 4 | 1-513034 | Bearing, pivot | 2 | 29 | 1-633567 | Sheave, engine..... | 1 |
| 5 | 1-513167 | Cap, hydraulic tank | 1 | 30 | 1-633569 | Belt, pump drive..... | 1 |
| 6 | 1-513211 | Element, hydraulic oil filter . | 1 | 31 | 1-633167 | Pulley, idler w/bushing | 1 |
| ◆ | 1-523541 | Element,hyd oil filter(winter) | 1 | 32 | 1-633335 | Hose, low pressure (14 ½") | 2 |
| 7 | 1-513840 | Elbow, 90° w/O-ring | 2 | 33 | 1-634277 | Arm, w/bearing | 1 |
| | 1-603921 | O-Ring..... | 1 | 34 | 321-4 | Screw, 1/4-20 x 3/4..... | 2 |
| 8 | 1-522217 | Hose, low pressure (7")..... | 1 | 35 | 323-8 | Screw, 3/8-16 x 1 1/2..... | 1 |
| 9 | 1-523103 | Gasket, tank cap | 1 | 36 | 323-9 | Screw, 3/8-16 x 1 3/4..... | 1 |
| 10 | 1-633774 | Hose, upper (52"&60") | 2 | 37 | 1-800805 | Screw, 3/8-16 x 3 1/2..... | 1 |
| | 1-633776 | Hose, upper (72")..... | 2 | 38 | 323-7 | Screw, 3/8-16 x 1..... | 4 |
| 11 | 1-523328 | Motor, wheel drive..... | 2 | 39 | 1-803022 | Setscrew, 5/16-18 x 5/8..... | 2 |
| | 1-000099 | Kit, seal | 1 | 40 | 30-1710 | Setscrew, 5/16-18 x 1..... | 2 |
| | 1-000139 | Kit, bearing..... | 1 | 41 | 1-803050 | Setscrew, 5/16-18 x 3/4..... | 2 |
| 12 | 1-603384 | Bushing, idler pivot..... | 1 | 42 | 1-805004 | Lockwasher, 1/4 | 2 |
| 13 | 1-603413 | Spring, pump drive idler | 1 | 43 | 3256-3 | Washer, 5/16 std | 1 |
| 14 | 1-603721 | Fitting, tee (3/8" i.d. hose) .. | 1 | 44 | 3256-4 | Washer, 3/8 std | 1 |
| 15 | 1-603722 | Fitting, tee (1/4" i.d. hose) .. | 1 | 45 | 13-2840 | Key, 1/4 x 1/4 x 1 1/4..... | 1 |
| 16 | 1-603826 | Clamp, hose (1/2") | 3 | 46 | 1-807272 | Key, 5mm x 5mm x 25mm . | 2 |
| 17 | 1-603827 | Clamp, hose (5/8") | 5 | 47 | 3290-357 | Nut, 3/8-16 whizlock | 8 |
| 18 | 1-603987 | Elbow,90° 7/16-JICx1/4-NPT | 1 | 48 | 32128-33 | Nut, whizlock 1/4-20 | 2 |
| 19 | 1-603988 | Elbow,90° 9/16-JICx1/4-NPT | 1 | 49 | 302-40 | Zerk, 90° 1/4-28..... | 1 |
| 20 | 1-603989 | Elbow, 90° (w/O-ring) | 2 | 50 | 321-3 | Screw, 1/4-20 x 5/8 | 2 |
| | 1-603923 | O-Ring (SAE #4) | 1 | 51 | 1-603841 | Pump, hydro | 2 |
| 21 | 1-603990 | Connector, strght (w/o-rings) | 4 | | 2513018 | Kit, overhaul seal | 1 |
| | 1-603920 | O-Ring (SAE #8) | 1 | 52 | 1-633786 | Elbow,90°(w/o-rings)(52&60) | 4 |
| | 1-603992 | O-Ring (37° flare #8)..... | 1 | | 1-633605 | Elbow,90°(w/o-rings)(72) | 1 |
| 22 | 1-613034 | Hose, high pressure 60"..... | 2 | | 1-603919 | O-Ring (SAE #10)..... | 1 |
| | 1-403102 | Hose, high pressure 52"..... | 2 | | 1-603992 | O-Ring (37° flare #8) | 1 |
| 23 | 1-632201-03 | Arm, pump idler | 1 | 53 | 1-633775 | Hose, lower (52"&60") | 2 |
| 24 | 1-632281 | Hose, low pressure (12").... | 1 | | 1-633777 | Hose, lower (72") | 2 |
| 25 | 1-632282 | Hose,low pressure(20 1/2") | 1 | | | | |

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

- ∇ Use Teflon pipe sealant on pipe threads in reservoir & filter head.
- Exmark black touch up spray paint - gloss black
- ◆ Use only for operation below 32°F (0°C)

HYDRAULIC GROUP



DECAL GROUP

| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|----------|------------------------------|-------------|----------|----------|--------------------------------------|-------------|
| 1 | 103-0166 | Decal, Console 1 | 1 | 22 | 1-633827 | Decal, Park Brake Warning.. | 1 |
| 2 | 103-0210 | Decal, Console 2 | 1 | 23 | 1-643339 | Decal, Pump Belt Rtg | 1 |
| 3 | 1-633706 | Decal, Deck Height | 1 | 24 | 103-1143 | Decal, Hood 23 L.C. RH..... | 1 |
| 4 | 1-633702 | Decal, Check Service | 1 | 25 | 103-1141 | Decal, Hood 27 L.C. RH..... | 1 |
| 5 | 1-633462 | Decal, Important | 1 | 26 | 103-1144 | Decal, Hood 23 L.C. LH | 1 |
| 6 | 1-403005 | Decal, Danger..... | 2 | 27 | 103-1142 | Decal, Hood 27 L.C. LH | 1 |
| 7 | 1-323540 | Decal, Roller Mounting | 1 | 28● | 1-643288 | Decal, Fuse/Relay | 1 |
| 8φ | 1-643103 | Decal, Exmark logo | 1 | 29 | 103-1077 | Decal, Bolt Torque..... | 1 |
| ∇ | 1-643386 | Decal, Exmark logo | 1 | 30φ | 1-643253 | Decal, Radiator Fan | 1 |
| 9 | 1-303293 | Decal, 2 Minute Cool | 2 | 31 | 1-633313 | Decal, Warning..... | 1 |
| 10 | 1-643401 | Decal, Mercury Switch..... | 1 | 32 | 1-523552 | Decal, Hyd Tank/Hot Surface | 1 |
| 11 | 1-643222 | Decal, Belt Routing..... | 1 | 33● | 103-0261 | Decal, Fuel Valve | 1 |
| 12 | 103-1146 | Decal, Ultracut 60 | 1 | 34 | 1-513748 | Decal, Guard | 1 |
| 13◆ | 103-0262 | Decal, Fuel Valve..... | 1 | 35 | 103-0368 | Decal, Rotating Devices | 1 |
| 14● | 1-643397 | Decal, EPS | 1 | 36φ | 1-643104 | Decal, L.C. Lazer Swash | 1 |
| 15 | 1-513742 | Decal, No Step | 2 | 37 | 103-0245 | Decal, Top Console..... | 1 |
| 16 | 103-1145 | Decal, Ultracut 52 | 1 | 38φ | 103-0223 | Decal, Havoline Coolant (60") | 1 |
| 17 | 1-633922 | Decal, Anti-Scalp | 1 | 39φ | 65-2690 | Decal, Hot Surface | 2 |
| 18** | 1-633350 | Decal, Lazer Swash..... | 1 | 40 | 1-633345 | Decal, Deck Height..... | 1 |
| 19 | 103-1147 | Decal, Ultracut 72 | 1 | | 103-0371 | Decal Kit-Air-Cooled (including EFI) | |
| 20 | 103-1027 | Decal, Relay | 1 | | 103-0370 | Decal Kit-Kaw Liquid-Cooled | |
| 21 | 1-303508 | Decal, Discharge Warning ... | 1 | | | | |

- ** Decal for Air-Cooled units only.
- ◆ Decal for all units except 26 HP EFI Kohler.
- Decals for 26 HP EFI Kohler units only.
- ∇ Decal for all units except Kawasaki Liquid-Cooled.
- φ Decal for Kawasaki Liquid-Cooled units only.
- φ Decal for 27 HP Kawasaki Liquid-Cooled units only.

DECAL GROUP

1 **RELEASE**
↑ **PARK BRAKE**
↓ **ENGAGE**

CAUTION

- Read manual before operating
- Before starting engine:
 - Park brake must be engaged
 - Lowers must be outworn to neutral lock position
 - Operator must be in seat
 - PTO switch must be off
- Before leaving seat:
 - Park brake must be engaged
 - PTO switch must be off
 - Lowers must be outworn to neutral lock position
- KEEP ALL GUARDS AND SHIELDS IN PLACE**
- Do NOT park on slope unless park brake is engaged
- Heating protection recommended

WARNING

Disengage PTO, engage park brake, shut off engine and remove key before making adjustments, servicing or cleaning.

IMPORTANT: Blades during engine, clean grass from pump drive belt compartment. Check more often in dry conditions. 101-200

2 **DANGER**

- Engines produce Carbon Monoxide which is an odorless Deadly Poison
- Do NOT operate in an enclosed area
- Do Not carry passengers
- Avoid blades unless blades and engine are stopped
- Keep all people and pets out of area when mowing
- Thrown Objects or Blade Contact can cause Serious Injury or Death
- Use extreme caution when operating on slopes
- Do NOT operate on slopes greater than 16°
- Avoid sudden starts when traveling uphill
- Loss of traction may occur going downhill
- Excavate turns slowly
- Drive slower on slopes
- Do NOT mow wet slopes

3 4.0 3.5 3.0 2.5 2.0

CAUTION

ALLOW ENGINE TO COOL FIRST! ALWAYS WEAR SEATBELT!

4 **CHECK/SERVICE REFERENCE AID**

GREASE LUBE POINTS AT INTERVALS SHOWN.

① CHECK HYDRAULIC FLUID AT INTERVAL SHOWN. (USE ONLY MOBIL 1 15W-50 SYNTHETIC MOTOR OIL.)

② SEE ENGINE OPERATORS MANUAL FOR SERVICING ENGINE.

③ CHECK TIRE PRESSURE - 13 PSI AT INTERVAL SHOWN. SEE OPERATORS MANUAL FOR ADDITIONAL DETAILS.

25 HOURS (UNDER ENGINE DECK)

25 HOURS ③ 25 HOURS ③

25 HOURS ① 200 HOURS ② 25 HOURS ③

25 HOURS ① 25 HOURS ③

25 HOURS ① 25 HOURS ③

40 HOURS 1/2 YEAR YEARLY 1/2 YEAR 40 HOURS 1/2 YEAR YEARLY 1/2 YEAR 25 HOURS ③

63392

5 **IMPORTANT:** BEFORE STARTING ENGINE: CLEAN GRASS FROM PUMP DRIVE BELT COMPARTMENT. CHECK MORE OFTEN IN DRY CONDITIONS.

6 **DANGER**
KEEP HANDS AND FEET AWAY

7 **ITEM NAME**

- ROLLER
- BLADING
- SPRING BINDER
- SHAW L A BOLT
- MOUNT BRACKET
- FLY WHEEL
- WALDOCK NUT
- MOUNT THE GRASS B

8 **exmark**

9 **CAUTION**

ALLOW ENGINE TO COOL FIRST! ALWAYS WEAR SEATBELT!

10 **RELAY SWITCH** REFER TO FRONT PANEL FOR OPTION INSTALLATION

11 **BELT ROUTING**

BLADE BELT: 680027-02 680027-02 680028-02

12 **UltraCut 60**

13 **RR** **LH** **OFF** **RH**

14 **EPS**

15 **NO STEP**

16 **UltraCut 52**

17 **ANTI-SLIP ROLLER ADJUSTMENT**

FOR NORMAL OPERATING CONDITIONS, PLACE ROLLERS POSITION BOWTIE FOR 1/8" GROUND CLEARANCE.

18 **exmark LAZER Z**

19 **UltraCut 72**

20 **KILL RELAY** **START RELAY** **FAN RELAY** **RELAY**

21 **WARNING**

DO NOT OPERATE WITHOUT DISCHARGE DEFLECTOR OR ENTIRE GRASS COLLECTION SYSTEM IN PLACE. DO NOT REMOVE GRASS CATCHER UNTIL BLADES HAVE STOPPED.

22 **WARNING**

WARNING: BLADES MAY NOT HOLD WITH ADDED WEIGHT OF ACCUMULATED GRASS. MACHINE TO BE CLEANED AT END OF EACH DAY. ALWAYS WEAR SEATBELT. ALWAYS WEAR SAFETY GLASSES. ALWAYS WEAR PROTECTIVE CLOTHING. ALWAYS WEAR PROTECTIVE HEADWEAR. ALWAYS WEAR PROTECTIVE FOOTWEAR. ALWAYS WEAR PROTECTIVE HEARING PROTECTION. ALWAYS WEAR PROTECTIVE VISION PROTECTION. ALWAYS WEAR PROTECTIVE BREATHING PROTECTION. ALWAYS WEAR PROTECTIVE SKIN PROTECTION. ALWAYS WEAR PROTECTIVE EYE PROTECTION. ALWAYS WEAR PROTECTIVE EAR PROTECTION. ALWAYS WEAR PROTECTIVE MOUTH PROTECTION. ALWAYS WEAR PROTECTIVE HAND PROTECTION. ALWAYS WEAR PROTECTIVE FOOT PROTECTION. ALWAYS WEAR PROTECTIVE HEAD PROTECTION. ALWAYS WEAR PROTECTIVE NECK PROTECTION. ALWAYS WEAR PROTECTIVE WRIST PROTECTION. ALWAYS WEAR PROTECTIVE ANKLE PROTECTION. ALWAYS WEAR PROTECTIVE SHOE PROTECTION. ALWAYS WEAR PROTECTIVE GLOVE PROTECTION. ALWAYS WEAR PROTECTIVE HELMET PROTECTION. ALWAYS WEAR PROTECTIVE VEST PROTECTION. ALWAYS WEAR PROTECTIVE BELT PROTECTION. ALWAYS WEAR PROTECTIVE SHIRT PROTECTION. ALWAYS WEAR PROTECTIVE PANTS PROTECTION. ALWAYS WEAR PROTECTIVE SOCKS PROTECTION. ALWAYS WEAR PROTECTIVE SHOES PROTECTION. ALWAYS WEAR PROTECTIVE HAT PROTECTION. ALWAYS WEAR PROTECTIVE GOGGLES PROTECTION. ALWAYS WEAR PROTECTIVE EARPLUGS PROTECTION. ALWAYS WEAR PROTECTIVE EARMUFFS PROTECTION. ALWAYS WEAR PROTECTIVE NOISE CANCELLING HEADPHONES PROTECTION. ALWAYS WEAR PROTECTIVE EARPLUGS PROTECTION. ALWAYS WEAR PROTECTIVE EARMUFFS PROTECTION. ALWAYS WEAR PROTECTIVE NOISE CANCELLING HEADPHONES PROTECTION.

23 **PUMP BELT ROUTING**

24 **23 HP**
LIQUID-COOLED

25 **27 HP**
LIQUID-COOLED

26 **23 HP**
LIQUID-COOLED

27 **27 HP**
LIQUID-COOLED

28 **CAUTION**

- Loose or Damaged Blade Bolt may allow blade to come out from under deck at HIGH SPEEDS.
- Replace Blade Bolt after striking a foreign object.
- Torque Blade Bolt to 115-120 FT-LBS (15-16 Nm)
- SEE OPERATORS MANUAL. 101-207

29 **CAUTION**

DO NOT OPERATE WITHOUT GUARD IN PLACE.

30 **CAUTION**

ROTATING MECHANICAL DEVICES MAY CAUSE SERIOUS INJURY.

31 **WARNING**

DISengage BLADE CLUTCH, SHUT OFF ENGINE AND REMOVE KEY BEFORE MAKING ADJUSTMENTS, SERVICING OR CLEANING DECK.

32 **HYDRAULIC OIL - USE ONLY MOBIL 1 5W-30 FULL SYNTHETIC ENGINE OIL. FILL TO TOP OF GAUGE.**

33 **CAUTION**
HOT

34 **CAUTION**

DO NOT OPERATE WITHOUT GUARD IN PLACE.

35 **WARNING**

ROTATING MECHANICAL DEVICES CAN CAUSE SERIOUS INJURY.

DO NOT operate without guards in place.

Stop engine before opening cover. 101-200

36 **exmark LAZER Z LIQUID COOLED**

37 **WARNING**

Battery contains sulfuric acid. Avoid contact and always shield eyes, face, skin and clothing from battery. Cigarettes, if smokes or sparks could cause battery to explode. Do not charge or use booster cables or adjust post connections without proper technique. In event of an accident, flush with water and call a physician immediately. Keep out of reach of children.

38 **DRIVE WHEEL RELEASE**

Use 5/8 wrench. Do turn counter-clockwise to release. Do not use right-hand.

39 **WARNING**
HOT

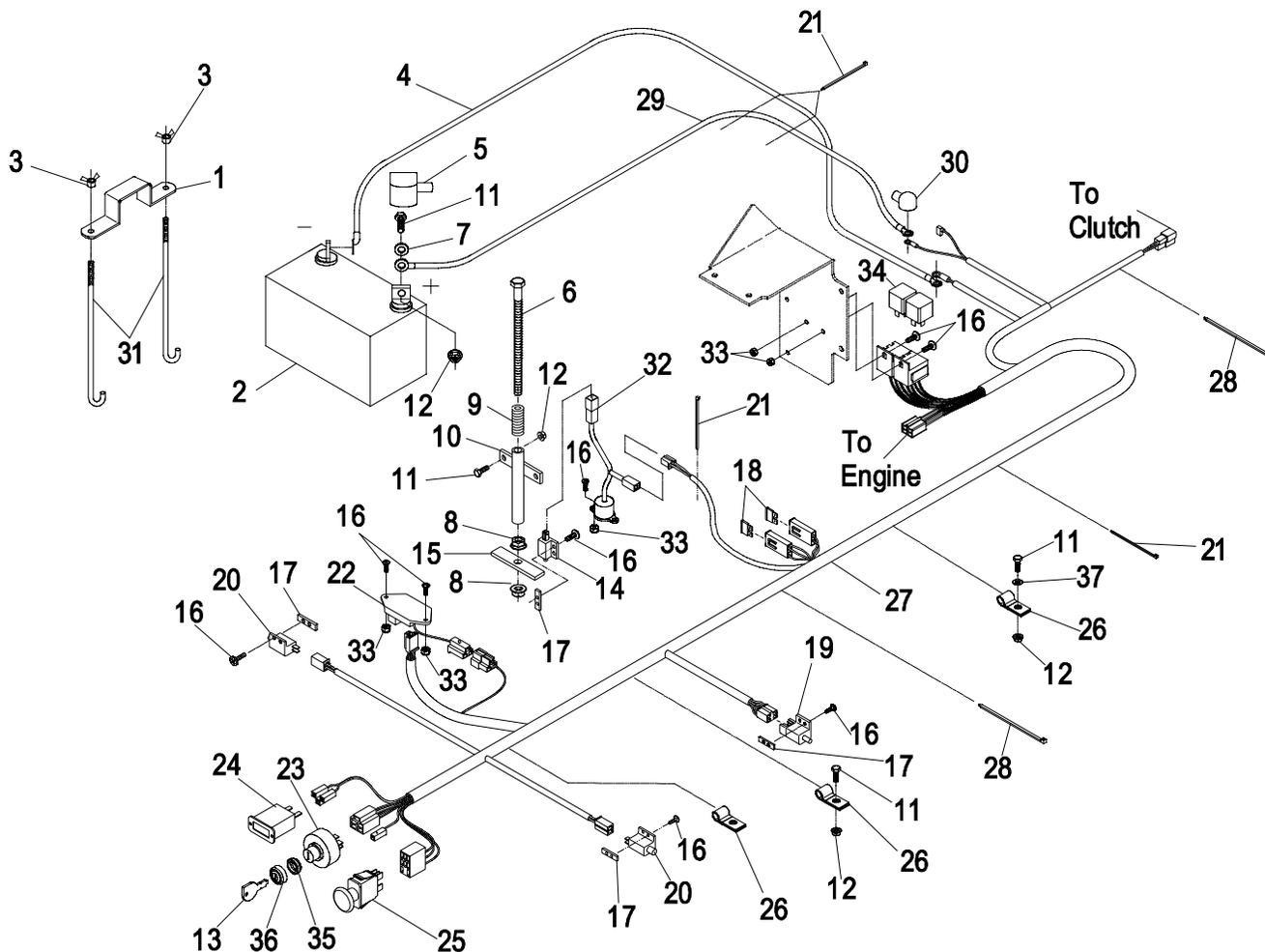
This mowing system produced by:

- Haverhill Engineered Lites Anti-Freeze/Coolant DEEG-COOL.
- The company with Haverhill Engineered Lites Anti-Freeze/Coolant DEEG-COOL.
- Supporting dealer listed to it.
- Do not mix with conventional coolant.
- Do not mix Haverhill Engineered Lites Anti-Freeze/Coolant with conventional coolant.

Another Product Innovation From:

40 **5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5**

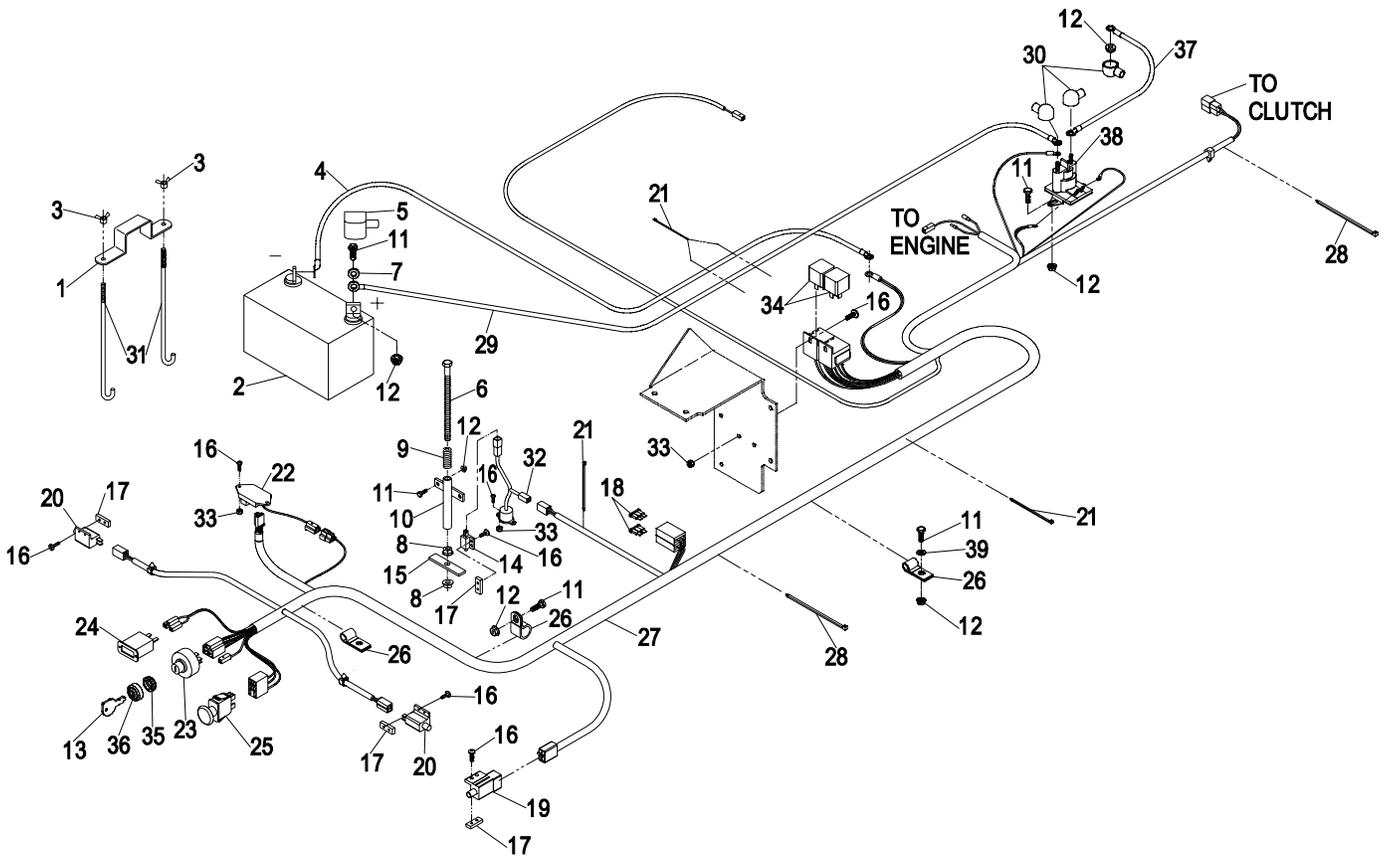
KOHLER 23 & 25 HP AIR-COOLED ELECTRICAL GROUP



| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|----------|-----------------------------|-------------|----------|----------|-------------------------------|-------------|
| 1 | 1-633652 | Hold down-battery | 1 | 19 | 1-633111 | Switch-brake N.O/N.C | 1 |
| 2 | 103-0293 | Battery-12V | 1 | 20 | 1-513051 | Switch-drive lever N.O. | 2 |
| 3 | 1-543792 | Wingnut, nyloc..... | 2 | 21 | 1-303287 | Plastic tie (small)..... | 5 |
| 4 | 1-633307 | Cable-battery (-) 40" | 1 | 22 | 100-6186 | Module-seat delay..... | 1 |
| 5 | 1-543391 | Insulator-battery | 1 | 23 | 103-0206 | Switch-ignition w/ keys..... | 1 |
| 6 | 1-800282 | Screw, 5/16-18x7 | 1 | 24 | 1-513374 | Meter-engine hours..... | 1 |
| 7 | 3256-2 | Washer, 1/4 flat..... | 2 | 25 | 1-633673 | Switch | 1 |
| 8 | 32128-20 | Nut, 5/16-18 whizlock | 2 | 26 | 1-633396 | Clip-Loom .69 | 3 |
| 9 | 1-523415 | Spring-seat switch..... | 1 | 27 | 103-0294 | Harness-wiring..... | 1 |
| 10 | 1-522424 | Spring mount wldmt | 1 | 28 | 1-303335 | Plastic tie (large) | 2 |
| 11 | 321-4 | Screw, 1/4-20x3/4 | 6 | 29 | 1-523281 | Cable-battery (+) 30"..... | 1 |
| 12 | 32128-33 | Nut, 1/4-20 whizlock | 6 | 30 | 1-543393 | Insulator, solenoid (+) | 1 |
| 13 | 1-603511 | Keys, ignition | 1 | 31 | 1-633651 | Bolt, battery hold down | 2 |
| 14 | 1-513152 | Switch- seat N.C. | 1 | 32 | 1-633782 | Switch, tilt..... | 1 |
| 15 | 1-513180 | Actuator, seat switch | 1 | 33 | 3296-2 | Nut, #10-24 Hex Nyloc..... | 6 |
| 16 | 3290-500 | Screw, #10-24x5/8 | 14 | 34 | 1-643275 | Relay, 12V | 2 |
| 17 | 1-633181 | Plate, tapped | 4 | 35 | 103-0498 | Nut, Ignition..... | 1 |
| 18 | 1-816001 | Fuse-20 amp | 2 | 36 | 103-0499 | Seal, Ignition..... | 1 |
| | | | | 37 | 3256-22 | Washer, 1/4 SAE | 1 |

◇ Use dielectric grease on all wiring harness connectors.

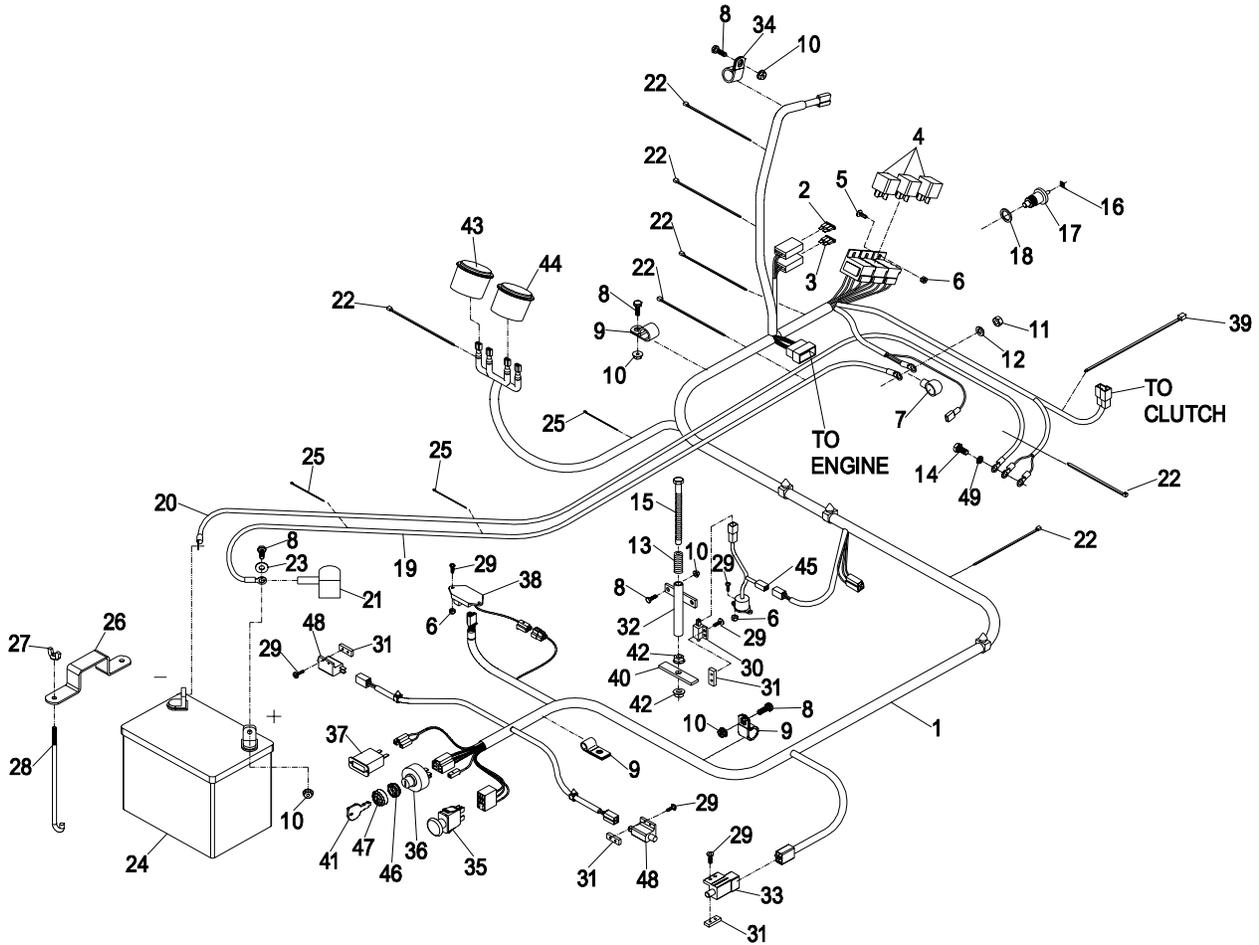
KAWASAKI 23 HP AIR-COOLED ELECTRICAL GROUP



| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|----------|------------------------------|-------------|----------|----------|-------------------------------|-------------|
| 1 | 1-633652 | Hold down-battery | 1 | 21 | 1-303287 | Plastic tie (small)..... | 5 |
| 2 | 103-0293 | Battery-12V | 1 | 22 | 100-6186 | Module-seat delay..... | 1 |
| 3 | 1-543792 | Wingnut, nyloc..... | 2 | 23 | 103-0206 | Switch-ignition w/ keys..... | 1 |
| 4 | 1-633307 | Cable-battery (-) 40"..... | 1 | 24 | 1-513374 | Meter-engine hours..... | 1 |
| 5 | 1-543391 | Insulator-battery | 1 | 25 | 1-633673 | Switch | 1 |
| 6 | 1-800282 | Screw, 5/16-18x7 | 1 | 26 | 1-633396 | Clip-Loom .69 | 3 |
| 7 | 3256-2 | Washer, 1/4 flat..... | 2 | 27◇ | 103-0732 | Harness-wiring..... | 1 |
| 8 | 32128-20 | Nut, 5/16-18 whizlock..... | 2 | 28 | 1-303335 | Plastic tie (large) | 2 |
| 9 | 1-523415 | Spring-seat switch..... | 1 | 29 | 1-523281 | Cable-battery (+) 30"..... | 1 |
| 10 | 1-522424 | Spring mount wdmt | 1 | 30 | 1-543393 | Insulator, solenoid (+) | 3 |
| 11 | 321-4 | Screw, 1/4-20x3/4 | 8 | 31 | 1-633651 | Bolt, battery hold down | 2 |
| 12 | 32128-33 | Nut, 1/4-20 whizlock..... | 9 | 32 | 1-633782 | Switch, tilt..... | 1 |
| 13 | 1-603511 | Keys, ignition | 1 | 33 | 3296-2 | Nut, #10-24 Hex Nyloc..... | 6 |
| 14 | 1-513152 | Switch- seat N.C. | 1 | 34 | 1-643275 | Relay, 12V | 2 |
| 15 | 1-513180 | Actuator, seat switch..... | 1 | 35 | 103-0498 | Nut, Ignition..... | 1 |
| 16 | 3290-500 | Screw, #10-24x5/8 | 14 | 36 | 103-0499 | Seal, Ignition | 1 |
| 17 | 1-633181 | Plate, tapped | 4 | 37 | 1-633306 | Wire, starter solenoid..... | 1 |
| 18 | 1-816001 | Fuse-20 amp | 2 | 38 | 1-513075 | Switch, 12V solenoid..... | 1 |
| 19 | 1-633111 | Switch-brake N.O./N.C. | 1 | 39 | 3256-22 | Washer, 1/4 SAE | 1 |
| 20 | 1-513051 | Switch-drive lever N.O. | 2 | | | | |

◇ Use dielectric grease on all wiring harness connectors.

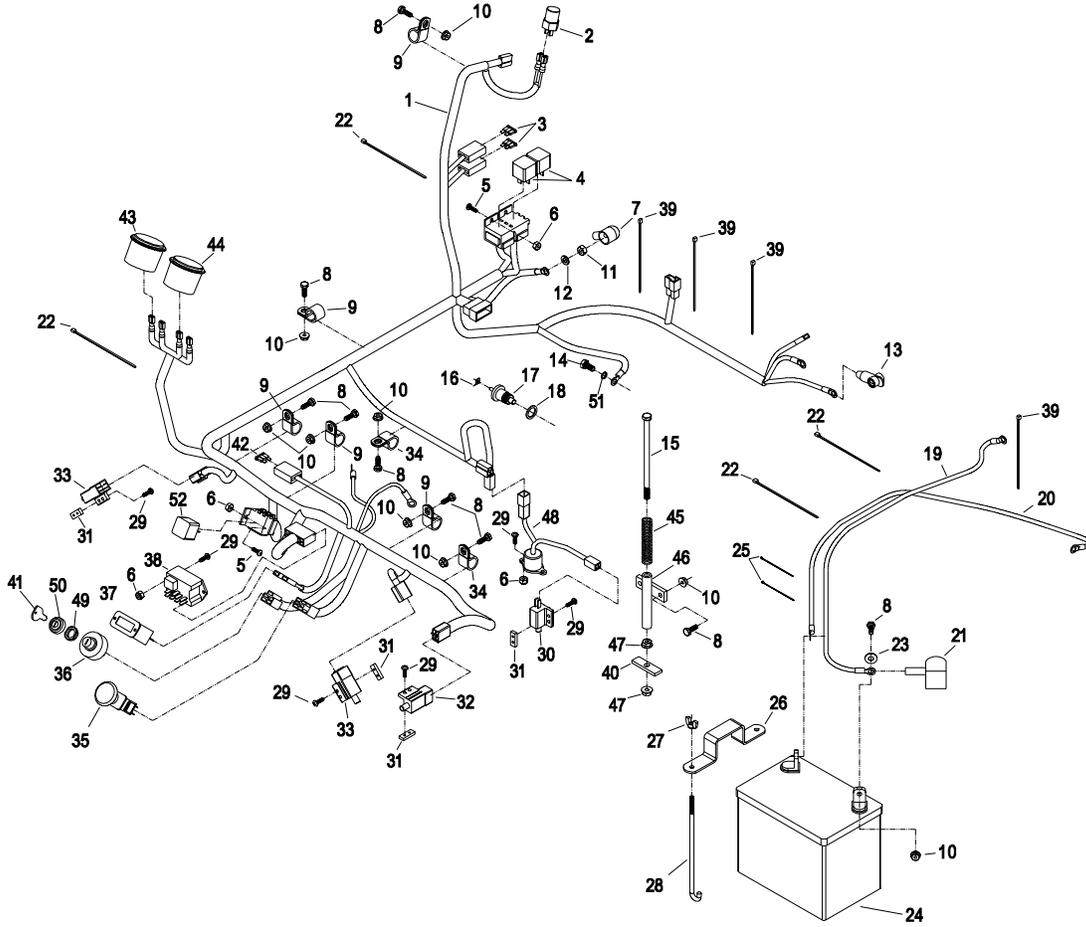
KAWASAKI 27 HP LIQUID-COOLED ELECTRICAL GROUP



| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-----------|-----------------------------|-------------|----------|----------|-------------------------------|-------------|
| 1◇ | 103-0883 | Harness-wiring..... | 1 | 26 | 1-633652 | Hold-down-battery | 1 |
| 2 | 1-816001 | Fuse-20 amp | 1 | 27 | 1-543792 | Wingnut, nyloc..... | 2 |
| 3 | 1-816003 | Fuse-30 amp | 1 | 28 | 1-633651 | Bolt, battery hold-down | 2 |
| 4 | 1-643275 | Relay, 12V | 3 | 29 | 3290-500 | Screw, #10-24x5/8 | 12 |
| 5 | 1-803071 | Screw, machine #10-24x1/2 | 2 | 30 | 1-513152 | Switch- seat N.C..... | 1 |
| 6 | 3296-2 | Nut, nyloc #10-24 | 6 | 31 | 1-633181 | Plate- tapped | 4 |
| 7 | 1-543393 | Insulator, solenoid + | 1 | 32 | 1-522424 | Spring mount wldmt..... | 1 |
| 8 | 321-4 | Screw, 1/4-20x3/4..... | 7 | 33 | 1-633111 | Switch-brake N.O./N.O..... | 1 |
| 9 | 1-633396 | Clip- loom .69..... | 3 | 34 | 1-513762 | Clip-loom .50 | 1 |
| 10 | 32128-33 | Nut, 1/4-20 whizlock | 7 | 35 | 1-633673 | Switch..... | 1 |
| 11 | 33014-00 | Nut, hex M8-1.25 | 1 | 36 | 103-0206 | Switch-ignition w/ keys | 1 |
| 12 | 3256-23 | Washer, 5/16 SAE | 1 | 37 | 1-513374 | Meter- engine hours | 1 |
| 13 | 1-523415 | Spring- seat switch | 1 | 38 | 100-6186 | Module, seat delay | 1 |
| 14 | 33114-016 | Screw, hex M8-1.25x16 | 1 | 39 | 1-643115 | Plastic tie (large) | 1 |
| 15 | 1-800282 | Screw, 5/16-18x7..... | 1 | 40 | 1-513180 | Actuator, seat switch | 1 |
| 16 | 1-643145 | Tab, #10stud .25 Spade 45° | 1 | 41 | 1-603511 | Keys, ignition | 1 |
| 17 | 103-0283 | Sender Unit, Temp | 1 | 42 | 32128-20 | Nut, 5/16-18 whizlock | 2 |
| 18 | 1-643153 | Washer, Alum. Sender gskt. | 1 | 43 | 1-643037 | Gauge, Voltmeter | 1 |
| 19 | 1-523279 | Cable- battery (+)..... | 1 | 44 | 1-643021 | Gauge, Temperature..... | 1 |
| 20 | 1-633307 | Cable-battery (-)..... | 1 | 45 | 1-633782 | Switch, tilt | 1 |
| 21 | 1-543391 | Insulator-battery..... | 1 | 46 | 103-0498 | Nut, Ignition | 1 |
| 22 | 1-303335 | Plastic tie (medium) | 7 | 47 | 103-0499 | Seal, Ignition..... | 1 |
| 23 | 3256-2 | Washer, 1/4 flat | 2 | 48 | 1-513051 | Switch, drive lever N.O..... | 2 |
| 24 | 103-0293 | Battery-12V..... | 1 | 49 | 3256-23 | Washer, 5/16 SAE..... | 1 |
| 25 | 1-303287 | Plastic tie (small) | 3 | | | | |

◇ Use dielectric grease on all wiring harness connectors.

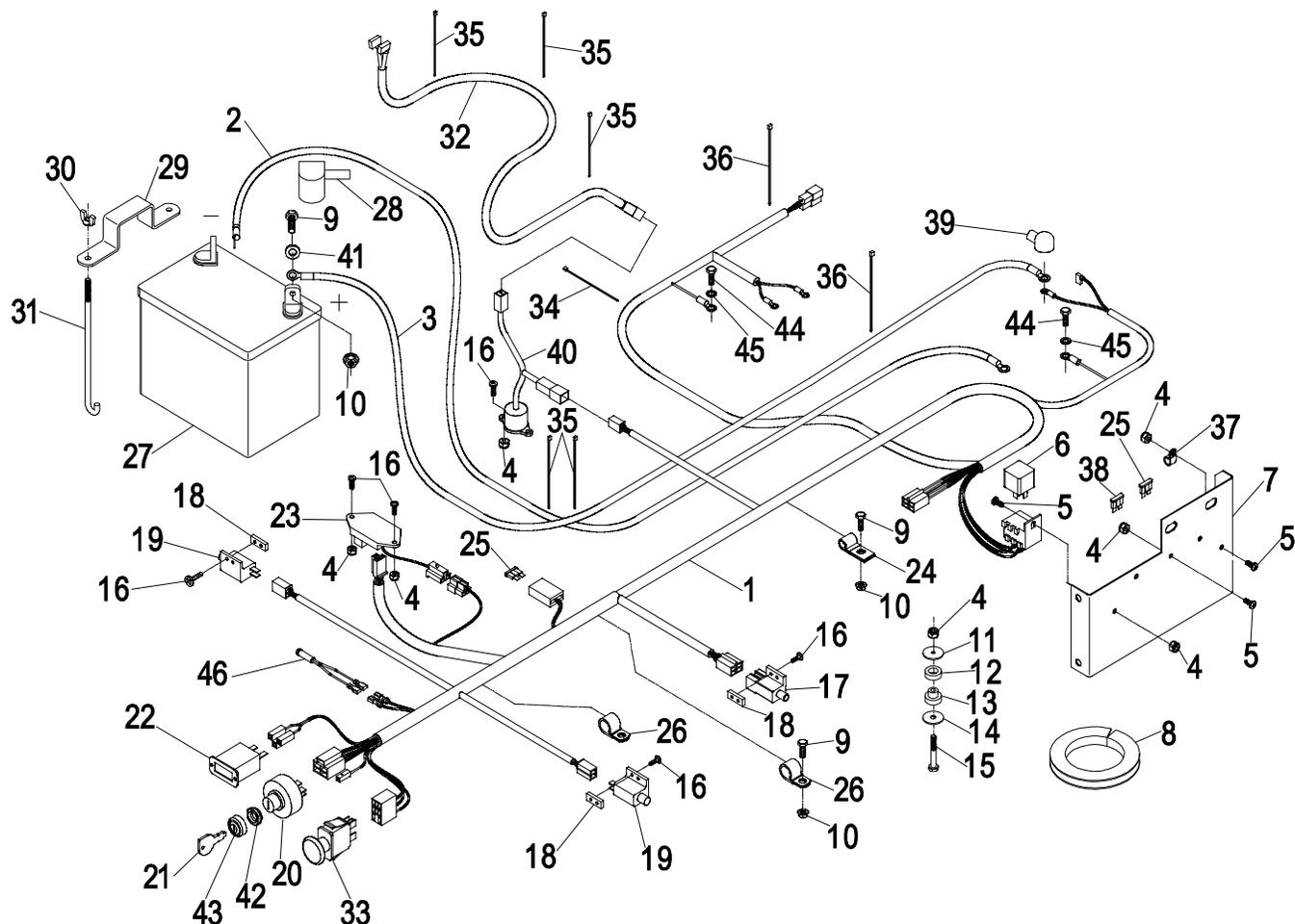
KAWASAKI 23 HP LIQUID-COOLED ELECTRICAL GROUP



| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|-----------|----------------------------------|-------------|----------|----------|---------------------------------|-------------|
| 1 | 1-643095 | Harness-wiring | 1 | 27 | 1-543792 | Wingnut, nyloc | 2 |
| 2 | 1-633833 | Switch, fan-thermal | 1 | 28 | 1-633651 | Bolt, battery holddown..... | 2 |
| 3 | 1-816003 | Fuse-30 amp | 2 | 29 | 3290-500 | Screw, #10-24x5/8 | 12 |
| 4 | 1-643275 | Relay, 12V | 2 | 30 | 1-513152 | Switch- seat N.C. | 1 |
| 5 | 1-803071 | Screw, machine #10-24x1/2 | 3 | 31 | 1-633181 | Plate- tapped..... | 4 |
| 6 | 3296-2 | Nut, nyloc #10-24 | 7 | 32 | 1-633110 | Switch- brake N.O./N.O. | 1 |
| 7 | 1-543393 | Insulator, solenoid + | 1 | 33 | 1-633111 | Switch-drive lever N.O./N.C. | 2 |
| 8 | 321-4 | Screw, 1/4-20x3/4 | 11 | 34 | 1-513762 | Clip-loom .50..... | 2 |
| 9 | 1-633396 | Clip- loom .69..... | 5 | 35 | 1-633673 | Switch | 1 |
| 10 | 32128-33 | Nut, 1/4-20 whizlock..... | 11 | 36 | 1-543070 | Switch-ignition w/ keys..... | 1 |
| 11 | 33014-00 | Nut, hex M8-1.25 | 1 | 37 | 1-513374 | Meter- engine hours..... | 1 |
| 12 | 1-805005 | Washer, lock 5/16 | 1 | 38 | 1-633856 | Module, ignition interlock | 1 |
| 13 | 1-643178 | Insulator, alternator (+) red .. | 1 | 39 | 1-643115 | Plastic tie (large) | 5 |
| 14 | 33114-016 | Screw, hex M8-1.25x16 | 1 | 40 | 1-513180 | Actuator, seat switch..... | 1 |
| 15 | 1-800282 | Screw, 5/16-18x7 | 1 | 41 | 1-603511 | Keys, ignition..... | 1 |
| 16 | 1-643145 | Tab, #10stud .25 Spade 45° | 1 | 42 | 1-816001 | Fuse-20 amp..... | 1 |
| 17 | 1-643036 | Sender Unit, Temp | 1 | 43 | 1-643037 | Gauge, Voltmeter..... | 1 |
| 18 | 1-643153 | Washer, Alum Sender gskt. . | 1 | 44 | 1-643021 | Gauge, Temperature | 1 |
| 19 | 1-523279 | Cable- battery (+) | 1 | 45 | 1-523415 | Spring- seat switch..... | 1 |
| 20 | 1-633307 | Cable-battery (-) | 1 | 46 | 1-522424 | Spring mount wldmt..... | 1 |
| 21 | 1-543391 | Insulator-battery | 1 | 47 | 32128-20 | Nut, 5/16-18 whizlock..... | 2 |
| 22 | 1-303335 | Plastic tie (medium) | 4 | 48 | 1-633782 | Switch, tilt..... | 1 |
| 23 | 3256-2 | Washer, 1/4 flat..... | 2 | 49 | 103-0498 | Nut, Ignition..... | 1 |
| 24 | 103-0293 | Battery-12V | 1 | 50 | 103-0499 | Seal, Ignition | 1 |
| 25 | 1-303287 | Plastic tie (small) | 5 | 51 | 3256-23 | Washer, 5/16 SAE | 1 |
| 26 | 1-633652 | Holdown-battery | 1 | 52 | 98-7249 | Relay..... | 1 |

Use dielectric grease on all wiring harness connectors.

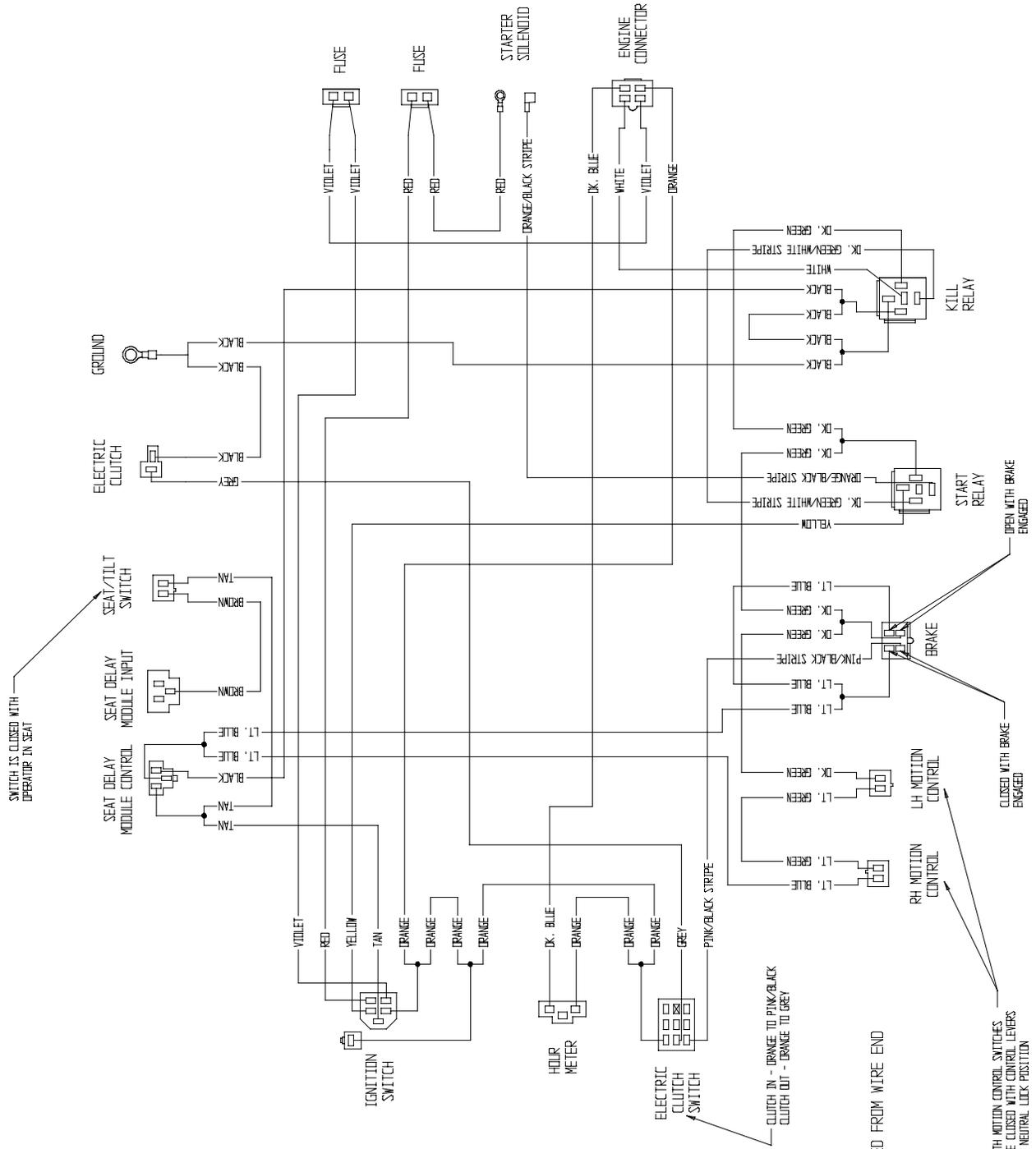
KOHLER 26 HP EFI ELECTRICAL GROUP



| Ref. No. | Part No. | Description | Qty. Req'd. | Ref. No. | Part No. | Description | Qty. Req'd. |
|----------|----------|-------------------------------|-------------|----------|-----------|------------------------------|-------------|
| 1 | 103-0263 | Harness-wiring | 1 | 24 | 1-513762 | Clip-loom .50..... | 2 |
| 2 | 1-633307 | Cable-battery (-)..... | 1 | 25 | 1-816001 | Fuse-20 amp | 2 |
| 3 | 1-523279 | Cable- battery (+)..... | 1 | 26 | 1-633396 | Clip- loom .69..... | 2 |
| 4 | 3296-2 | Nut, nyloc #10-24 | 14 | 27 | 103-0293 | Battery-12V..... | 1 |
| 5 | 1-803071 | Screw, machine #10-24x1/2 | 6 | 28 | 1-543391 | Insulator-battery..... | 1 |
| 6 | 1-643275 | Relay, 12V | 1 | 29 | 1-633652 | Holdown-battery..... | 1 |
| 7 | 1-643257 | Panel, fuses/relay | 1 | 30 | 1-543792 | Wingnut, nyloc | 2 |
| 8 | 1-643246 | Trim-lok, 3/16" x 9.75..... | 1 | 31 | 1-633651 | Bolt, battery holddown | 2 |
| 9 | 321-4 | Screw, 1/4-20x3/4 | 6 | 32 | 1-633840 | Wiring Harness, seat | 1 |
| 10 | 32128-33 | Nut, 1/4-20 whizlock..... | 6 | 33 | 1-633673 | Switch | 1 |
| 11 | 1-805518 | Washer, fender #10 x 1.0 | 4 | 34 | 1-303287 | Plastic tie (small) | 1 |
| 12 | 1-643325 | Ring Mount, Vibration | 4 | 35 | 1-303335 | Plastic tie (medium) | 5 |
| 13 | 1-643326 | Bushing Mount, Vibration | 4 | 36 | 1-643115 | Plastic tie (large) | 2 |
| 14 | 1-805519 | Washer, Fender 1/4 x 1.0 ... | 4 | 37 | 1-323229 | Clip, loom 3/8 | 1 |
| 15 | 1-803074 | Screw, Shoulder .25 x .75 ... | 4 | 38 | 1-816002 | Fuse, 10 amp | 1 |
| 16 | 3290-500 | Screw, #10-24x5/8 | 8 | 39 | 1-543393 | Insulator, solenoid + | 1 |
| 17 | 1-633111 | Switch, N.O./N.O..... | 1 | 40 | 1-633782 | Switch, tilt | 1 |
| 18 | 1-633181 | Plate- tapped..... | 3 | 41 | 3256-2 | Washer, 1/4 flat | 2 |
| 19 | 1-513051 | Switch, N.O./N.C..... | 2 | 42 | 103-0498 | Nut, Ignition | 1 |
| 20 | 103-0206 | Switch-ignition w/ keys | 1 | 43 | 103-0499 | Seal, Ignition | 1 |
| 21 | 1-603511 | Keys, ignition..... | 1 | 44 | 33114-016 | Screw, M8-1.25 x 16mm | 2 |
| 22 | 1-513374 | Meter- engine hours..... | 1 | 45 | 3256-23 | Washer, 5/16 SAE | 2 |
| 23 | 100-6186 | Module, seat delay | 1 | 46 | 1-643267 | Indicator, Red LED | 1 |

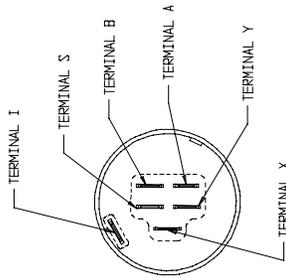
◇ Use dielectric grease on all wiring harness connectors.

KOHLER 23, & 25 HP AIR-COOLED ELECTRICAL DIAGRAM



IGNITION SWITCH

| TERMINAL | CONNECTIONS |
|------------|-----------------------------------|
| TERMINAL A | VOLTAGE REGULATOR |
| TERMINAL B | BATTERY |
| TERMINAL I | HOUR METER, ENGINE, CLUTCH SWITCH |
| TERMINAL S | START RELAY |
| TERMINAL X | SEAT DELAY, TILT SWITCH |
| TERMINAL Y | HOUR METER, ENGINE, CLUTCH SWITCH |

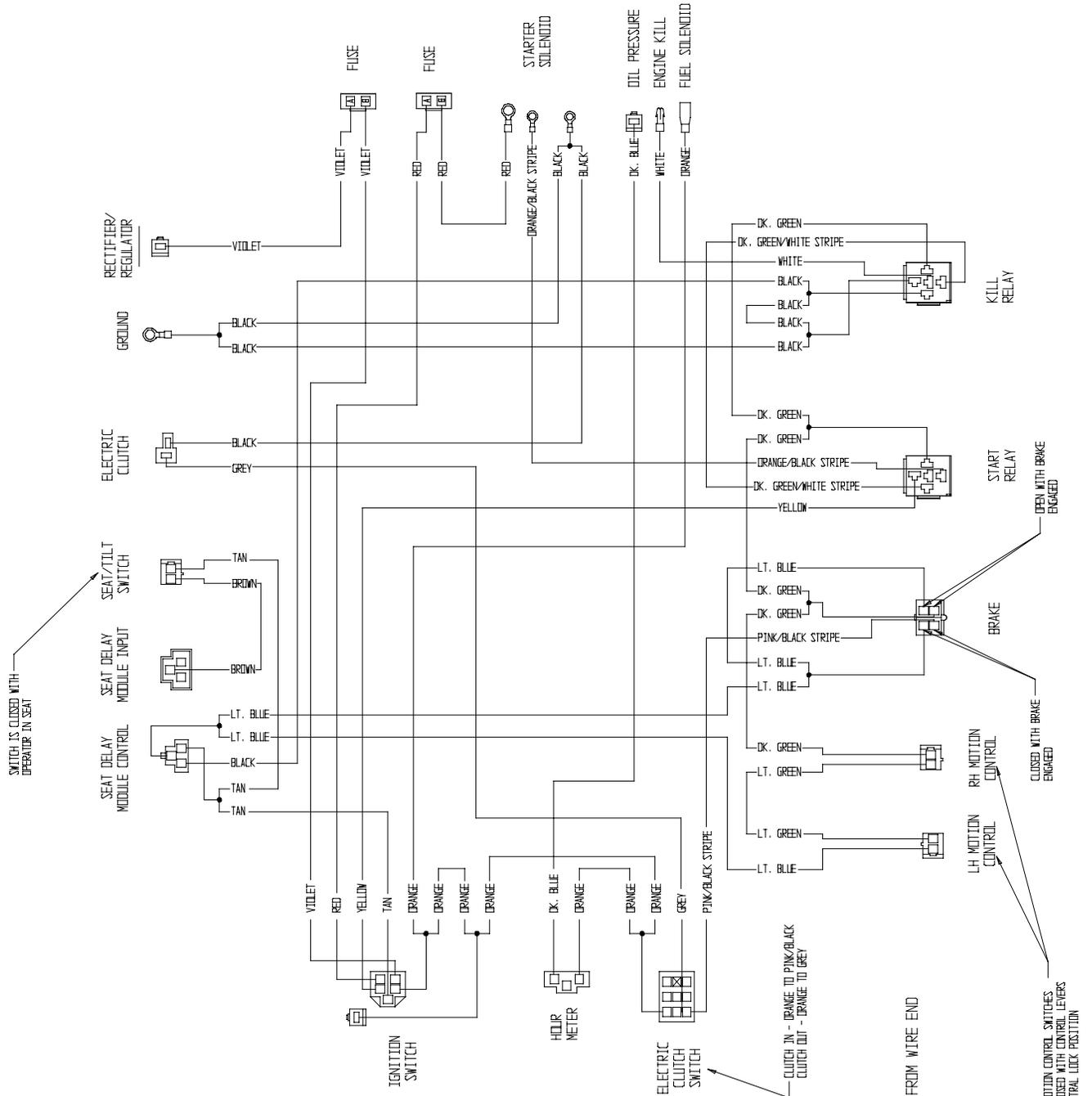


| POSITION | CIRCUIT "MAKE" |
|----------|-----------------|
| 1. OFF | NONE |
| 2. RUN | B + I + A X + Y |
| 3. START | B + I + S |

NOTE:
CONNECTORS VIEWED FROM WIRE END

BOTH MOTION CONTROL SWITCHES
ARE CLOSED WITH CONTROL LEVERS
IN NEUTRAL LOCK POSITION

KAWASAKI 23 HP AIR-COOLED ELECTRICAL DIAGRAM



SWITCH IS CLOSED WITH OPERATOR IN SEAT

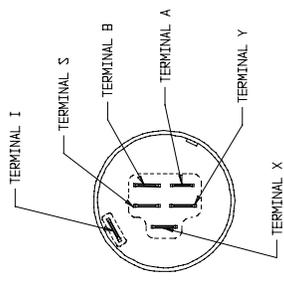
CLUTCH IN - BRANGE TO PINK/BLACK
CLUTCH OUT - ORANGE TO GREY

BOTH MOTION CONTROL SWITCHES ARE CLOSED WITH CONTROL LEVERS IN NEUTRAL LOCK POSITION

NOTE: CONNECTORS VIEWED FROM WIRE END

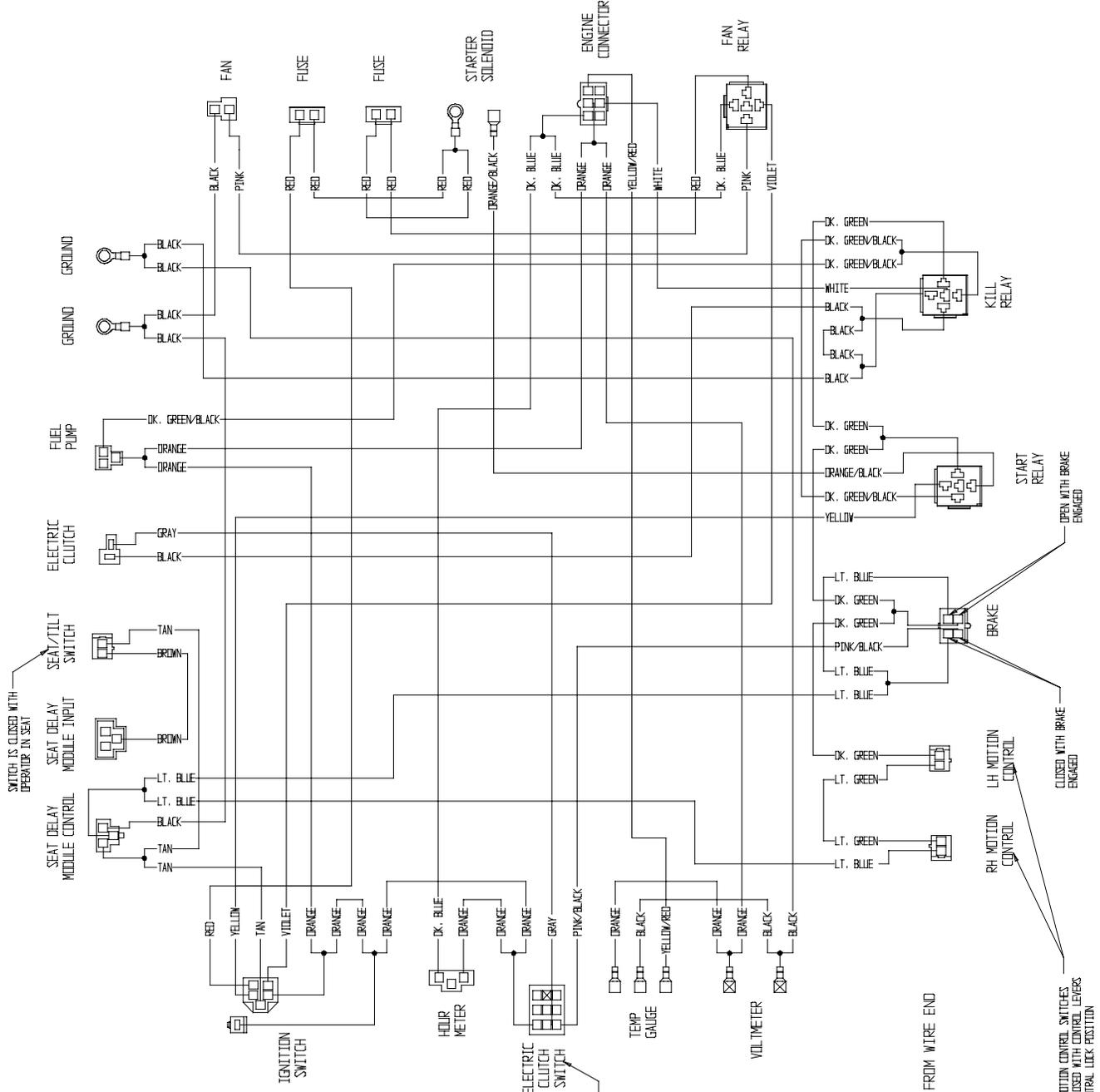
IGNITION SWITCH

| TERMINAL | CONNECTIONS |
|------------|--|
| TERMINAL A | RECTIFIER/REGULATOR |
| TERMINAL B | BATTERY |
| TERMINAL I | HOUR METER, FUEL SOLENOID, CLUTCH SWITCH |
| TERMINAL S | START RELAY |
| TERMINAL X | SEAT DELAY, TILT SWITCH |
| TERMINAL Y | HOUR METER, FUEL SOLENOID, CLUTCH SWITCH |



| POSITION | CIRCUIT "MAKE" |
|----------|-----------------|
| 1. OFF | NONE |
| 2. RUN | B + I + A X + Y |
| 3. START | B + I + S |

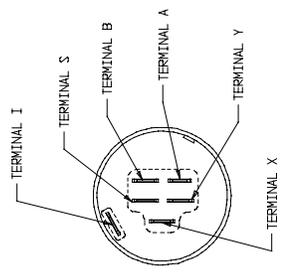
KAWASAKI 27 HP LIQUID-COOLED ELECTRICAL DIAGRAM



IGNITION SWITCH

CONNECTIONS

| TERMINAL | CONNECTIONS |
|------------|-------------------------------------|
| TERMINAL A | FAN RELAY |
| TERMINAL B | BATTERY |
| TERMINAL I | HOURLY METER, ENGINE, CLUTCH SWITCH |
| TERMINAL S | START RELAY |
| TERMINAL X | SEAT DELAY, TILT SWITCH |
| TERMINAL Y | HOURLY METER, ENGINE, CLUTCH SWITCH |



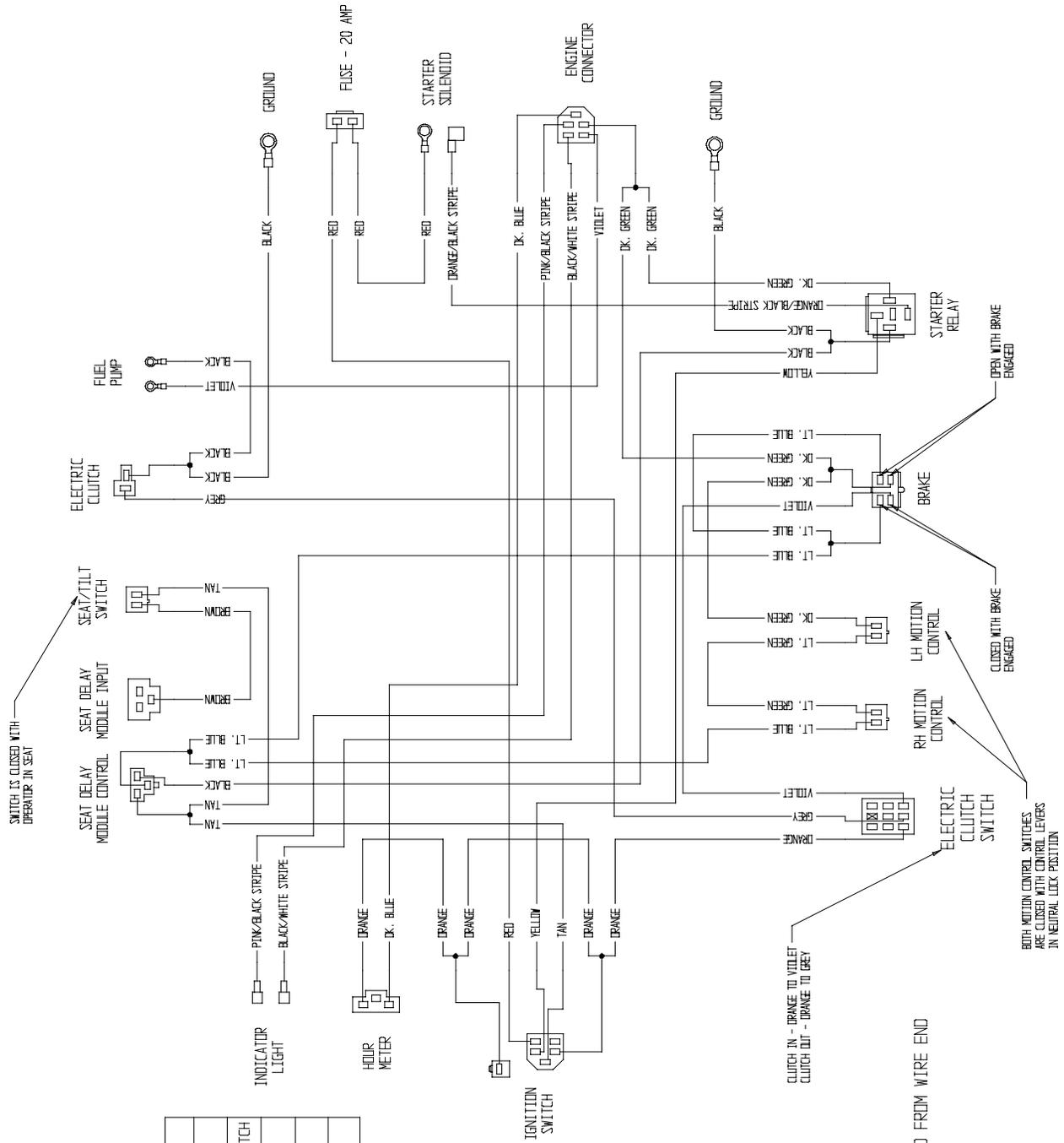
CLUTCH IN - DRAME TO PINK/BLACK
CLUTCH OUT - DRAME TO GREY

| POSITION | CIRCUIT "MAKE" |
|----------|-------------------|
| 1. OFF | NONE |
| 2. RUN | B + I + A X + Y |
| 3. START | B + I + S |

NOTE: CONNECTORS VIEWED FROM WIRE END

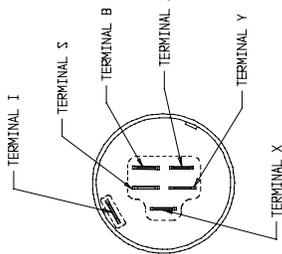
BOTH MOTION CONTROL SWITCHES ARE CLOSED WITH CONTROL LEVERS IN NEUTRAL LOCK POSITION

KOHLER 26 HP EFI ELECTRICAL DIAGRAM



IGNITION SWITCH

| TERMINAL | CONNECTIONS |
|------------|-----------------------------------|
| TERMINAL A | NOT USED |
| TERMINAL B | BATTERY |
| TERMINAL I | HOUR METER, ENGINE, CLUTCH SWITCH |
| TERMINAL S | START RELAY |
| TERMINAL X | SEAT DELAY, TILT SWITCH |
| TERMINAL Y | HOUR METER, CLUTCH SWITCH |



| POSITION | CIRCUIT "MAKE" |
|----------|-----------------|
| 1. OFF | NONE |
| 2. RUN | B + I + A X + Y |
| 3. START | B + I + S |

NOTE:
CONNECTORS VIEWED FROM WIRE END

BOTH MOTION CONTROL SWITCHES
ARE CLOSED WITH CONTROL LEVERS
IN NEUTRAL LOCK POSITION

**SEE EXMARK'S COMPLETE
LINE OF PRODUCTS FOR TURF CARE**

LAZER Z[®]

LAZER Z[®] HP

LAZER Z[®] XP

TURF RANGER[®]

TURF TRACER[®]

TURF TRACER[®] HP

VIKING HYDRO

METRO[®]

METRO[®] HP

SELF STEERING SULKY

ULTRA VAC[™]

GRASS CATCHER

MICRO-MULCH[™] ACCESSORY

©1997,1998,1999, 2000, 2001
EXMARK MFG. CO. INC.
INDUSTRIAL PARK BOX 808
BEATRICE, NE 68310
ALL RIGHTS RESERVED

PART NO. 103-0656 Rev C.
(402) 223-6300
FAX (402) 223-5489

PRINTED IN U.S.A.

