For Serial Nos.
260,000 & Higher

eXmark® MFG. CO. INC.



PARTS MANUAL

# TURF TRACER® HP

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 next to the fuel tank on the top left-hand side of the fuel tank support..

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. _____

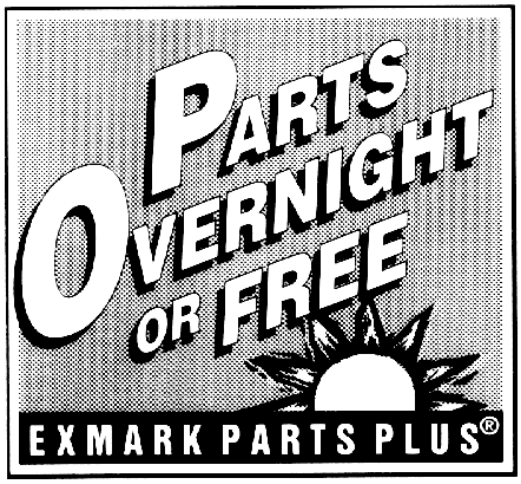
Engine Serial No. _____

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 arrive 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 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.

# WARNING

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

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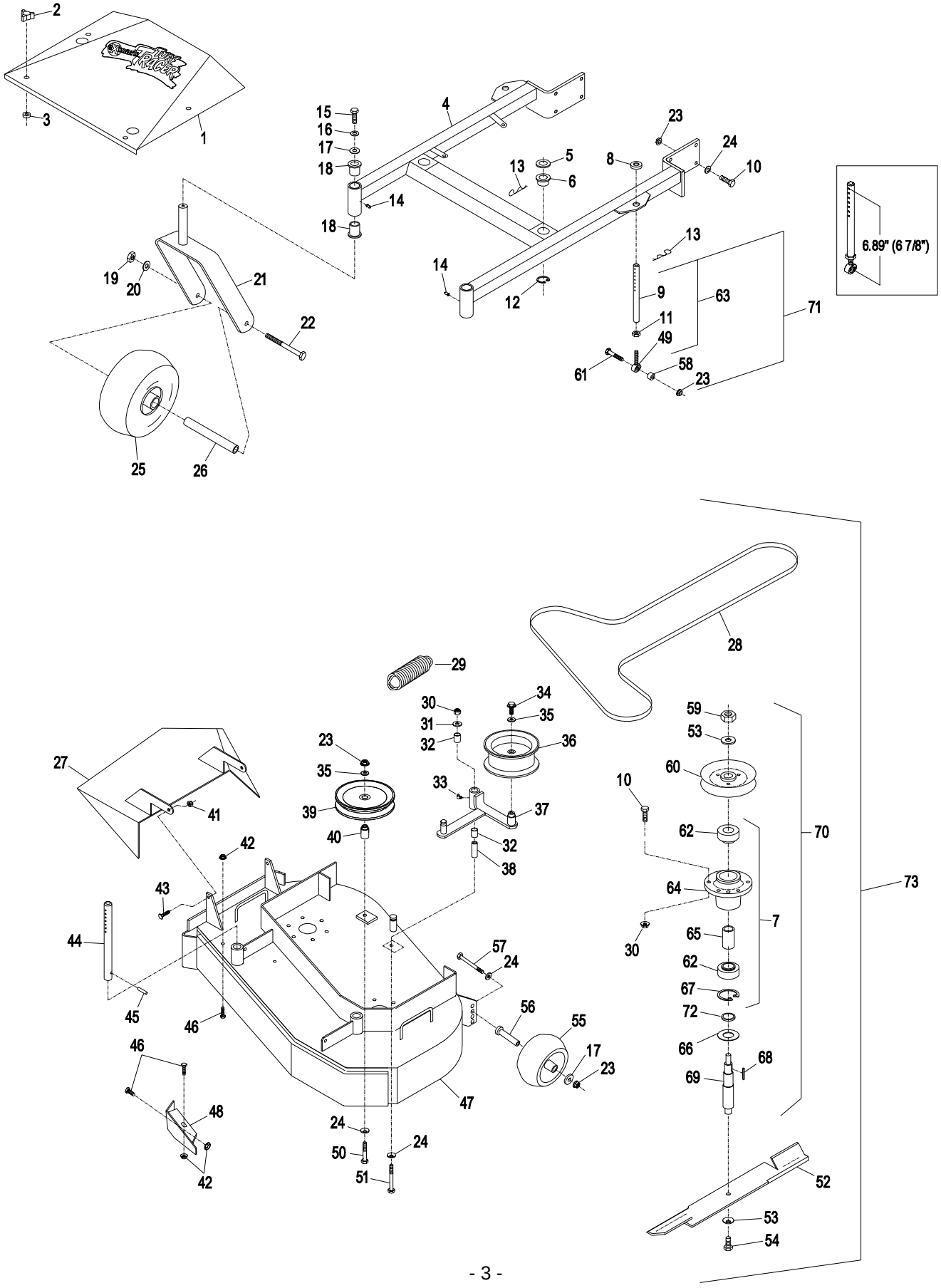

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# 36" MOWER DECK

| Ref. No. | Part No. | Description | Qty. Req'd. |
|---|---|---|---|
| 1 | 1-414386 | Shield, belt w/decals | 1 |
| | 1-413098-01 | Shield, belt | 1 |
| 2 | 1-323385 | Knob, belt shield | 4 |
| 3 | 1-323417 | Washer, belt shield | 4 |
| 4 | 1-414309 | Support wld w/bushings & decals | 1 |
| | 1-412108-01 | Support weldmemt | 1 |
| 5 | 1-413425 | Spacer, Front Deck Support | 2 |
| 6 | 1-513336 | Bushing, deck support | 2 |
| 7 | 1-634619 | Housing w/Brgs, Spacer & Ring | 2 |
| 8 | 1-323539 | Spacer, Blade Drive | 2 |
| 9 | 1-413525 | Link, Deck Support | 2 |
| 10 | 323-7 | Screw, Hex Cap 3/8-16 x 1 1/4 | 20 |
| 11 | 3219-3 | Nut, Reg Hex 3/8-24 | 2 |
| 12 | 32120-33 | Ring, Retaining | 2 |
| 13 | 1-806009 | Hairpin, Cotter .177 #206 | 4 |
| 14 | 302-52 | Zerk, Straight 1/8 | 2 |
| 15 | 323-6 | Screw, Hex Cap 3/8-16x1 | 2 |
| 16 | 3253-5 | Washer, 3/8 heavy spring | 2 |
| 17 | 1-373034 | Washer, Swivel. | 3 |
| 18 | 1-303514 | Bearing, Flange | 4 |
| 19 | 3217-9 | Nut, Reg Hex ½-13 | 2 |
| 20 | 3253-7 | Washer, Lock Hlcl Spg ½ Reg | 2 |
| 21 | 1-522143-01 | Caster weldment | 2 |
| 22 | 325-20 | Screw, Hex Cap ½-13x6 | 2 |
| 23 | 3290-357 | Nut, Whizlock 3/8-16 | 12 |
| 24 | 98-5975 | Washer, Disc Spring 3/8 | 11 |
| 25ι | 103-1224 | Tire & Wheel Asm(semi-pneumatic) | 2 |
| ι | 1-513648 | Tire & Wheel Asm (pneumatic) | 2 |
| | 1-513809 | Roller Bearing (all) | 2 |
| | 1-513810 | Bushing (all) | 4 |
| | 1-513807 | Wheel & Hub (pneumatic) | 2 |
| | 1-513808 | Tire, 9x3/5-4 4-ply (pneumatic) | 2 |
| 26 | 1-513547 | Spacer | 2 |
| 27 | 1-412238-01 | Chute weldment, discharge | 1 |
| 28 | 1-413094 | Belt, deck drive | 1 |
| 29 | 1-633151 | Spring, extension | 1 |
| 30 | 3296-39 | Nut, Nyloc 3/8-16 | 13 |
| 31 | 3256-4 | Washer, Flat Std 3/8 | 1 |
| 32 | 1-513034 | Pivot, Bearing | 2 |
| 33 | 302-40 | Zerk, 90 degree ¼-28 | 1 |
| 34 | 3234-11 | Bolt, Hex Whizlock 3/8-16x1 | 1 |
| 35 | 3256-24 | Washer, Flat 3/8 SAE | 2 |
| 36 | 1-413099 | Pulley, Idler | 1 |
| 37 | 1-412134-03 | Arm, weldmt | 1 |
| | 1-414144 | Arm, weldmt w/bushings | 1 |
| 38 | 1-603384 | Bushing, Idler Pivot | 1 |
| 39 | 1-613098 | Pulley, Idler | 1 |
| 40 | 1-413113 | Bushing, Idler | 1 |
| 41 | 3296-29 | Nut, Nyloc 5/16-18 | 2 |
| 42 | 32128-20 | Nut, Whizlock 5/16-18 | 3 |
| 43 | 322-5 | Screw, Hex Cap 5/16-18 | 3 |
| 44 | 1-603001 | Rod, Deck Support | 2 |
| 45 | 1-806332 | Rollpin, 1/4x1 ½ | 2 |
| 46 | 322-2 | Screw, Hex Cap 5/16-18 x 1 | 3 |
| 47 | 1-414383 | Deck weldmt w/decals, discharge Baffle & support rods | 1 |
| | 1-412104-01 | Deck weldmt | 1 |
| 48 | 1-522480-01 | Baffle, discharge | 1 |
| 49 | 1-613204 | Ball Joint | 2 |
| 50 | 323-13 | Screw, Hex Cap 3/8-16 x 2 3/4 | 1 |
| 51 | 1-800805 | Screw, Hex Cap 3/8-16 x 3 ½ G8 | 1 |
| 52 | 1-633482 | Blade, 18.00 notched air foil | 2 |
| | 1-613251 | Blade, 18.00 solid air foil | 2 |
| • | 1-513208 | Blade, 18.00 mulching | 2 |
| | 1-633485 | Blade, 18.00 low lift (optional) | 2 |
| 53 | 1-513208 | Washer, Spring disc | 4 |
| 54 | 103-1026 | Screw, Hex Cap 5/8-11 x 1 G8 | 2 |
| 55 | 1-603299 | Roller, antiscalp | 1 |
| 56 | 1-603602 | Bushing, roller | 1 |
| 57 | 98-5961 | Screw, Hex Cap 3/8-16x1 3/4 | 2 |
| 58 | 1-603050 | Bushing Spacer | 2 |
| 59 | 3219-6 | Nut, Reg hex 5/8-18 | 2 |
| 60 * | 1-413424 | Sheave w/Hub | 2 |
| 61 | 323-9 | Screw, hex Cap 3/8-16x1 3/4 | 2 |
| 62 * | 1-513016 | Bearing | 8 |
| 63 ∀ | 1-414521 | Link, Assembly | 2 |
| 64 | 1-323532 | Housing, Spindle | 2 |
| 65 | 1-323528 | Spacer, Bearing | 2 |
| 66 | 1-633573 | Guard, Bearing-Bottom | 2 |
| 67 | 32120-8 | Ring, Snap | 2 |
| 68 | 1-807268 | Key, machine | 2 |
| 69 | 1-413330 | Shaft, Spindle | 2 |
| 70 | 1-414335 | Housing,Cutter assembly | 2 |
| 71 | 1-611216 | Kit, Link Assembly | 2 |
| 72 | 1-323533 | Spacer | 2 |
| 73 | 103-0320 | Assembly,Cutting deck complete | 1 |

- • Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK363(36")
- * Use antisieze on bore of sheaves and bearings.
  Exmark red touch up spray paint - P/N 1-850337
- ∀ Link assembly must be assembled to 6.89" (or approximately 6 7/8") length between center of ball joint and center of furthest hole. See diagram on next page.
- ι Early models with standard pistol grip handles have pneumatic casters (with valve stems – order assembly part number 1-513648). Later models with standard pistol grip handles and all models with ECS handles have semi-pneumatic casters (without valve stems – order assembly part number 103-1224)

# 36” MOWER DECK

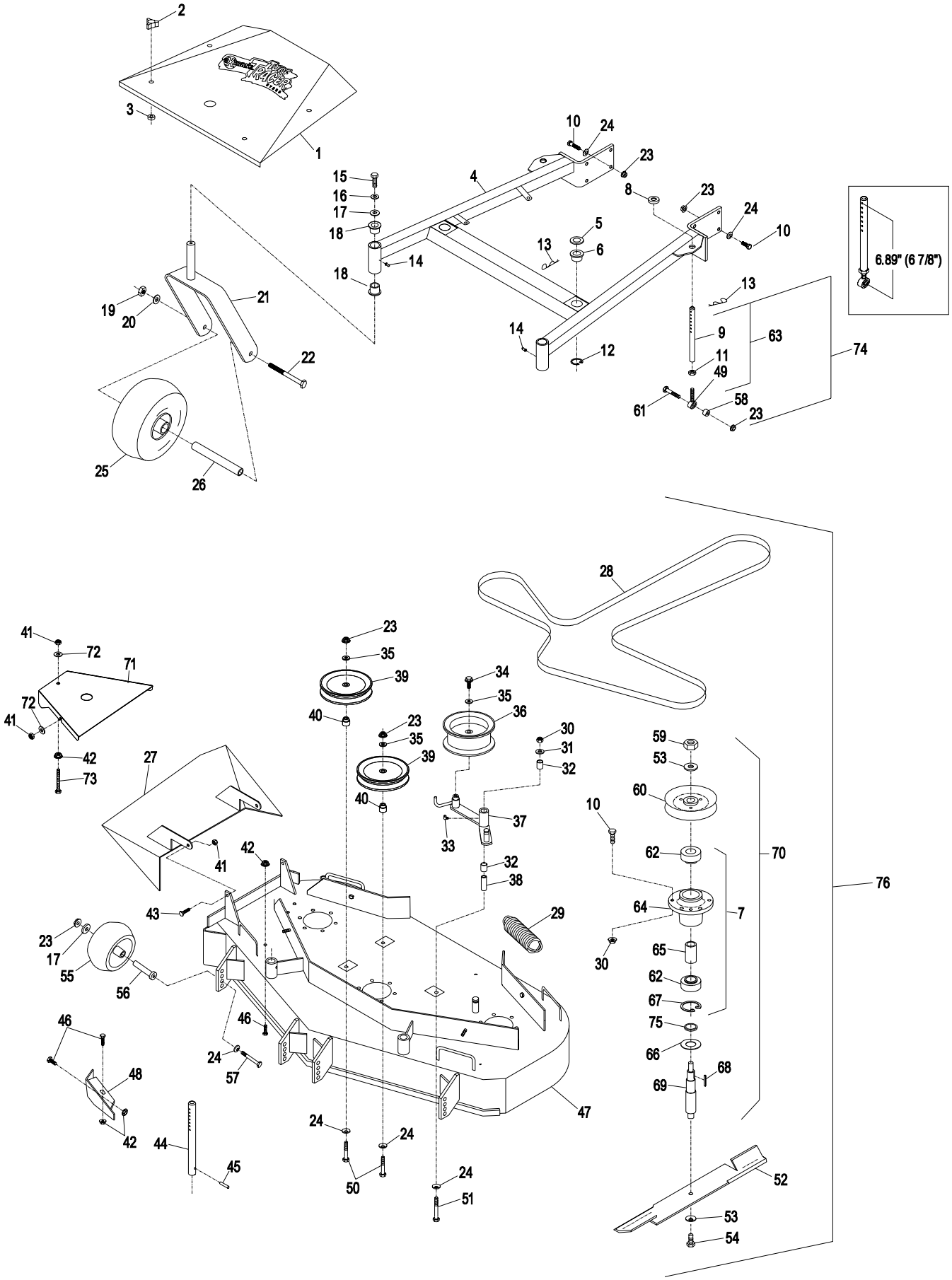


# 48" MOWER DECK

| Ref. No. | Part No. | Description | Qty. Req'd. |
|---|---|---|---|
| 1 | 1-414387 | Shield, belt w/decals | 1 |
| | 1-413101-01 | Shield, belt | 1 |
| 2 | 1-323385 | Knob, belt shield | 4 |
| 3 | 1-323417 | Washer, belt cover | 4 |
| 4 | 1-414310 | Support wld w/bushings & decals | 1 |
| | 1-412110-01 | Support weldmt | 1 |
| 5 | 1-413425 | Spacer, Front Deck Support | 2 |
| 6 | 1-513336 | Bushing, deck support | 2 |
| 7 | 1-634619 | Housing w/Brgs, Spacer & Ring | 3 |
| 8 | 1-323539 | Spacer, Blade Drive | 2 |
| 9 | 1-413525 | Link, Deck Support | 2 |
| 10 | 323-7 | Screw, Hex Cap 3/8-16 x 1 ¼ | 26 |
| 11 | 3219-3 | Nut, Reg Hex 3/8-24 | 2 |
| 12 | 32120-33 | Ring, Retaining | 2 |
| 13 | 1-806009 | Hairpin, Cotter .177 #206 | 4 |
| 14 | 302-52 | Zerk, Straight 1/8 | 2 |
| 15 | 323-6 | Screw, Hex Cap 3/8-16x1 | 2 |
| 16 | 3253-5 | Washer, 3/8 heavy spring | 2 |
| 17 | 1-373034 | Washer, Swivel. | 6 |
| 18 | 1-303514 | Bearing, Flange | 4 |
| 19 | 3217-9 | Nut, Reg Hex ½-13 | 2 |
| 20 | 3253-7 | Washer, Lock Hlcl Spg ½ Reg | 2 |
| 21 | 1-522143-01 | Caster weldment | 2 |
| 22 | 325-20 | Screw, Hex Cap ½-13x6 | 2 |
| 23 | 3290-357 | Nut, Whizlock 3/8-16 | 16 |
| 24 | 98-5975 | Washer, Disc Spring 3/8 | 15 |
| 25∀ | 103-1224 | Tire & Wheel Asm (semi pneumatic) | 2 |
| ∀ | 1-513648 | Tire & Wheel Asm (pneumatic) | 2 |
| | 1-513819 | Roller Bearing (all) | 2 |
| | 1-513810 | Bushing (all) | 4 |
| | 1-513807 | Wheel & Hub (pneumatic) | 2 |
| | 1-513808 | Tire, 9x3/5-4 4-ply (pneumatic) | 2 |
| 26 | 1-513547 | Spacer | 2 |
| 27 | 1-522478-01 | Chute weldment, discharge | 1 |
| 28 | 1-413093 | Belt, deck drive | 1 |
| 29 | 1-633151 | Spring, extension | 1 |
| 30 | 3296-39 | Nut, Nyloc 3/8-16 | 19 |
| 31 | 3256-4 | Washer, Flat Std 3/8 | 1 |
| 32 | 1-513034 | Pivot, Bearing | 2 |
| 33 | 302-40 | Zerk, 90 degree ¼-28 | 1 |
| 34 | 3234-11 | Bolt, Hex Whizlock 3/8-16x1 | 1 |
| 35 | 3256-24 | Washer, Flat 3/8 SAE | 2 |
| 36 | 1-413099 | Pulley, Idler | 1 |
| 37 | 1-412394 | Arm, weldmt | 1 |
| | 1-414398 | Arm, weldmt w/bushings | 1 |
| 38 | 1-603384 | Bushing, Idler Pivot | 1 |
| 39 | 1-613098 | Pulley, Idler | 2 |
| 40 | 1-413113 | Bushing, Idler | 2 |
| 41 | 3296-29 | Nut, Nyloc 5/16-18 | 8 |
| 42 | 32128-20 | Nut, Whizlock 5/16-18 | 5 |
| 43 | 322-5 | Screw, Hex Cap 5/16-18 | 2 |
| 44 | 1-603001 | Rod, Deck Support | 2 |
| 45 | 1-806332 | Rollpin, 1/4x1 1/2 | 2 |
| 46 | 322-2 | Screw, Hex Cap 5/16-18 x 5/8 | 3 |
| 47 | 1-414384 | Deck weldmt w/decals, discharge Baffle & support rods | 1 |
| | 1-412106-01 | Deck weldmt | 1 |
| 48 | 1-522480-01 | Baffle, discharge | 1 |
| 49 | 1-613204 | Ball Joint | 2 |
| 50 | 323-13 | Screw, Hex Cap 3/8-16 x 2 3/4 | 2 |
| 51 | 1-800805 | Screw, Hex Cap 3/8-16 x 3 ½ G8 | 1 |
| 52 | 1-323515 | Blade, 16.25 notched air foil | 3 |
| | 1-413438 | Blade, 16.25 solid air foil | 3 |
| • | 1-403148 | Blade, 16.25 mulching | 3 |
| | 1-403149 | Blade, 16.25 low lift (optional) | 3 |
| 53 | 1-513208 | Washer, Spring disc | 6 |
| 54 | 103-1026 | Screw, Hex Cap 5/8-11 x 1 G8 | 3 |
| 55 | 1-603299 | Roller, antiscalp | 4 |
| 56 | 1-603602 | Bushing, roller | 4 |
| 57 | 98-5961 | Screw, Hex Cap 3/8-16x1 3/4 | 4 |
| 58 | 1-603050 | Bushing Spacer | 2 |
| 59 | 3219-6 | Nut, Reg hex 5/8-18 | 3 |
| 60 * | 1-413424 | Sheave w/Hub | 3 |
| 61 | 323-9 | Screw, hex Cap 3/8-16x1 3/4 | 2 |
| 62 * | 1-513016 | Bearing | 6 |
| 63ι | 1-414521 | Link, Assembly | 2 |
| 64 | 1-323532 | Housing, Spindle | 3 |
| 65 | 1-323528 | Spacer, Bearing | 3 |
| 66 | 1-633573 | Guard, Bearing-Bottom | 3 |
| 67 | 32120-8 | Ring, Snap | 3 |
| 68 | 1-807268 | Key, machine | 3 |
| 69 | 1-413330 | Shaft, Spindle | 3 |
| 70 | 1-414335 | Housing, Cutter Assembly | 3 |
| 71 | 1-653482 | Shield, Belt | 2 |
| 72 | 3256-3 | Washer, Flat Std 5/16 | 6 |
| 73 | 1-800017 | Bolt, Hex Tap 5/16-18 3 1/4 | 2 |
| 74 | 1-611216 | Kit, Link Assembly | 2 |
| 75 | 1-323533 | Spacer | 3 |
| 76 | 103-0321 | Assembly,Cutting deck complete | 1 |

- • Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK483(48")
- * Use antisieze on bore of sheaves and bearings.
  Exmark red touch up spray paint - P/N 1-850337
- ι Link assembly must be assembled to 6.89" (or approximately 6 7/8") length from center of ball joint to center of furthest hole. See diagram on next page.
- ∀ Early models with standard pistol grip handles have pneumatic casters (with valve stems – order assembly part number 1-513648). Later models with standard pistol grip handles and all models with ECS handles have semi-pneumatic casters (without valve stems – order assembly part number 103-1224)

# 48” MOWER DECK



# 52" MOWER DECK

| Ref. No. | Part No. | Description | Qty. Req'd. |
|---|---|---|---|
| 1 | 1-414388 | Shield, belt w/decals | 1 |
| | 1-413303-01 | Shield, belt | 1 |
| 2 | 1-323385 | Knob, belt shield | 5 |
| 3 | 1-323417 | Washer, belt cover | 5 |
| 4 | 1-414311 | Support wld w/bushings & decals | 1 |
| | 1-412317-01 | Support weldmt | 1 |
| 5 | 1-413425 | Spacer, Front Deck Support | 2 |
| 6 | 1-513336 | Bushing, deck support | 2 |
| 7 | 1-611216 | Kit, Link Assembly | 2 |
| 8 | 1-323539 | Spacer, Blade Drive | 2 |
| 9 | 1-413525 | Link, Deck Support | 2 |
| 10 | 323-7 | Screw, Hex Cap 3/8-16 x 1 1/4 | 26 |
| 11 | 3219-3 | Nut, Reg Hex 3/8-24 | 2 |
| 12 | 32120-33 | Ring, Retaining | 2 |
| 13 | 1-806009 | Hairpin, Cotter .177 #206 | 4 |
| 14 | 302-52 | Zerk, Straight 1/8 | 2 |
| 15 | 323-6 | Screw, Hex Cap 3/8-16x1 | 2 |
| 16 | 3253-5 | Washer, 3/8 heavy spring | 2 |
| 17 | 1-373034 | Washer, Swivel. | 8 |
| 18 | 1-303514 | Bearing, Flange | 4 |
| 19 | 3217-9 | Nut, Reg Hex ½-13 | 2 |
| 20 | 3253-7 | Washer, Lock Hlcl Spg ½ Reg | 2 |
| 21 | 1-522143-01 | Caster weldment | 2 |
| 22 | 325-20 | Screw, Hex Cap ½-13x6 | 2 |
| 23 | 3290-357 | Nut, Whizlock 3/8-16 | 18 |
| 24 | 98-5975 | Washer, Disc Spring 3/8 | 17 |
| 25∀ | 103-1224 | Tire & Wheel Asm (semi-pneumatic) | 2 |
| ∀ | 1-513648 | Tire & Wheel Asm (pneumatic) | 2 |
| | 1-513809 | Roller Bearing (all) | 2 |
| | 1-513810 | Bushing (all) | 4 |
| | 1-513807 | Wheel & Hub (pneumatic) | 2 |
| | 1-513808 | Tire, 9x3/5-4 4-ply (pneumatic) | 2 |
| 26 | 1-513547 | Spacer | 2 |
| 27 | 1-602571-01 | Chute weldment, discharge | 1 |
| 28 | 1-413308 | Belt, deck drive | 1 |
| 29 | 1-633151 | Spring, extension | 1 |
| 30 | 3296-39 | Nut, Nyloc 3/8-16 | 27 |
| 31 | 3256-4 | Washer, Flat Std 3/8 | 9 |
| 32 | 1-513034 | Pivot, Bearing | 2 |
| 33 | 302-40 | Zerk, 90 degree ¼-28 | 1 |
| 34 | 3234-11 | Bolt, Hex Whizlock 3/8-16x1 | 1 |
| 35 | 3256-24 | Washer, Flat 3/8 SAE | 3 |
| 36 | 1-413099 | Pulley, Idler | 1 |
| 37 | 1-412394-03 | Arm, weldment | 1 |
| | 1-414398 | Arm, weldment w/bushings | 1 |
| 38 | 1-603384 | Bushing, Idler Pivot | 1 |
| 39 | 1-613098 | Pulley, Idler | 2 |
| 40 | 1-413113 | Bushing, Idler | 2 |
| 41 | 3296-29 | Nut, Nyloc 5/16-18 | 2 |
| 42 | 32128-20 | Nut, Whizlock 5/16-18 | 6 |
| 43 | 322-5 | Screw, Hex Cap 5/16-18 | 2 |
| 44 | 1-603001 | Rod, Deck Support | 2 |
| 45 | 1-806332 | Rollpin, 1/4x1 1/2 | 2 |
| 46 | 322-6 | Screw, Hex Cap 5/16-18 x 5/8 | 6 |
| 47 | 1-414385 | Deck weldmt w/decals, discharge Baffle & support rods | 1 |
| | 1-412313-01 | Deck weldmt | 1 |
| 48 | 1-602913-01 | Baffle, discharge | 1 |
| 49 | 1-613204 | Ball Joint | 2 |
| 50 | 323-13 | Screw, Hex Cap 3/8-16 x 2 3/4 | 2 |
| 51 | 1-800805 | Screw, Hex Cap 3/8-16 x 3 ½ G8 | 1 |
| 52 | 1-633482 | Blade, 18.00 notched air foil | 3 |
| | 1-613251 | Blade, 18.00 solid air foil | 3 |
| • | 1-633484 | Blade, 18.00 mulching | 3 |
| | 1-633485 | Blade, 18.00 low lift (optional) | 3 |
| 53 | 1-513208 | Washer, Spring disc | 6 |
| 54 | 103-1026 | Screw, Hex Cap 5/8-11 x 1 G8 | 3 |
| 55 | 1-603299 | Roller, antiscalp | 6 |
| 56 | 1-603602 | Bushing, roller | 6 |
| 57 | 98-5961 | Screw, Hex Cap 3/8-16x1 3/4 | 6 |
| 58 | 1-603050 | Bushing Spacer | 2 |
| 59 | 3219-6 | Nut, Reg hex 5/8-18 | 3 |
| 60 * | 1-413424 | Sheave w/Hub | 3 |
| 61 | 323-9 | Screw, hex Cap 3/8-16x1 3/4 | 2 |
| 62 * | 1-513016 | Bearing | 6 |
| 63ι | 1-414521 | Link, Assembly | 2 |
| 64 | 1-323532 | Housing, Spindle | 3 |
| 65 | 1-323528 | Spacer, Bearing | 3 |
| 66 | 1-633573 | Guard, Bearing-Bottom | 3 |
| 67 | 32120-8 | Ring, Snap | 3 |
| 68 | 1-807268 | Key, machine | 3 |
| 69 | 1-413330 | Shaft, Spindle | 3 |
| 70 | 1-414335 | Housing, Cutter Assembly | 3 |
| 71 | 1-413305-01 | Shield, Belt | 2 |
| 72 | 1-323533 | Spacer | 3 |
| 73 | 1-634619 | Housing w/brgs, spacer & ring | 3 |
| 74 | 103-0322 | Assembly,Cutting deck complete | 1 |

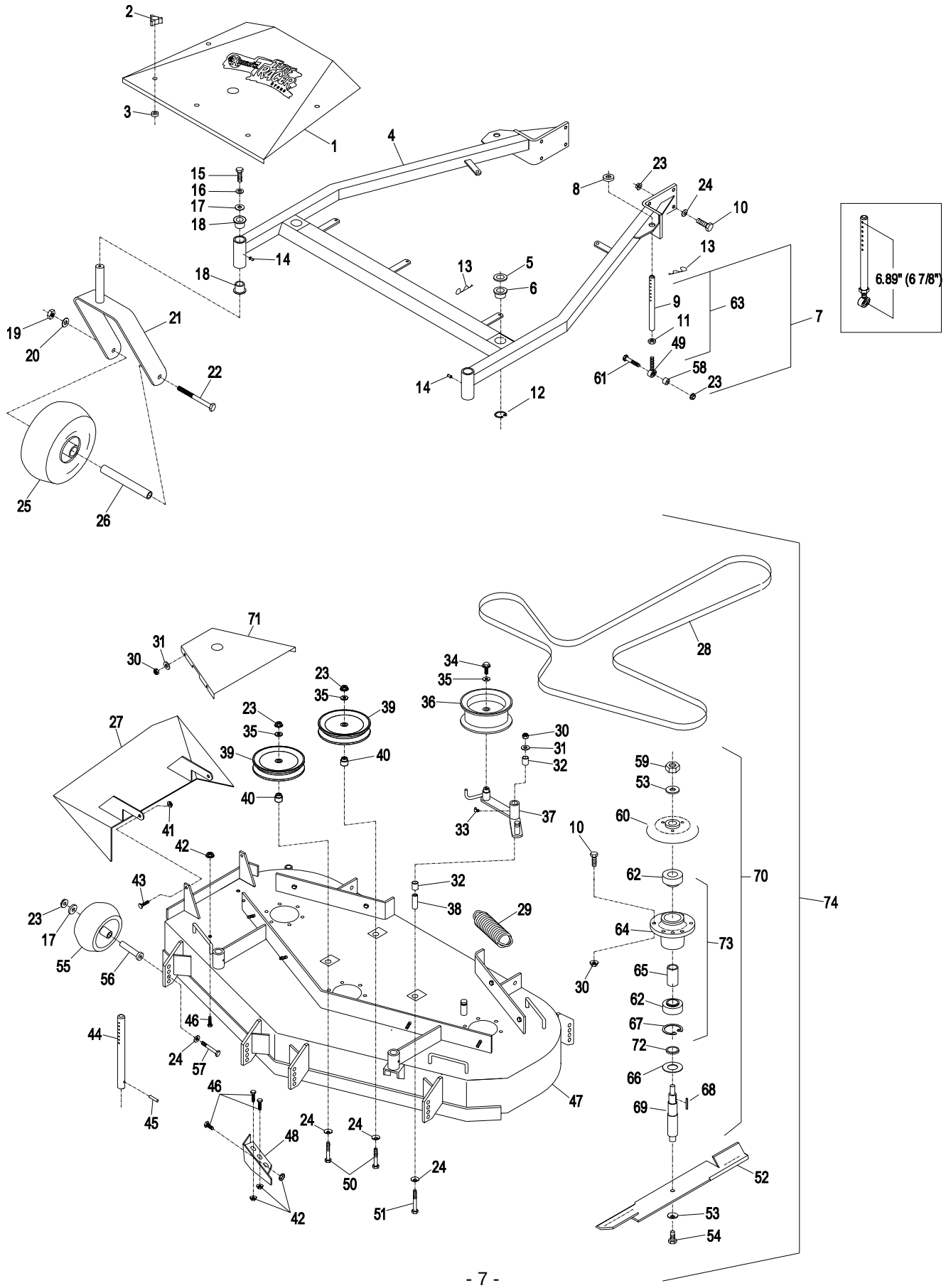
• Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK523(52")

* Use antisieze on bore of sheaves and bearings.
Exmark red touch up spray paint - P/N 1-850337

ι Link assembly must be assembled to 6.89" (or approximately 6 7/8") length between center of ball joint and center of furthest hole. See diagram on next page.

∀ Early models with standard pistol grip handles have pneumatic casters (with valve stems – order assembly part number 1-513648). Later models with standard pistol grip handles and all models with ECS handles have semi-pneumatic casters (without valve stems – order assembly part number 103-1224)

# 52” MOWER DECK



# ENGINE DECK GROUP

| Ref. No. | Part No. | Description | Qty. Req'd. |
|---|---|---|---|
| 1 ★ | 323-11 | Screw, 3/8-16 x 2-1/4 | 2 |
| ● | 323-11 | Screw, 3/8-16 x 2-1/4 | 1 |
| 2 | 98-5975 | Washer, 3/8 disc spring | 11 |
| 3 | 1-603044 | Bushing | 2 |
| 4 | 1-513034 | Bearing, pivot | 4 |
| 5 | 302-19 | Zerk, straight | 1 |
| 6 | 1-412285-03 | Link weldmt, pivot | 1 |
| | 1-414143 | Link weldmt, pivot w/brgs | 1 |
| 7 | 322-6 | Screw, 5/16-18 x 1-1/4 | 1 |
| 8 | 321-6 | Screw, 1/4-20 x 1 | 2 |
| 9 | 32128-33 | Nut, 1/4-20 whizlock | 4 |
| 10 | 1-523498 | Spring, motion control | 1 |
| 11 | 1-513113 | Spring, belt tension | 1 |
| 12 | 1-543007 | Spacer | 1 |
| 13 | 1-213069 | Washer | 2 |
| 14 | 3296-29 | Nut, 5/16-18 nylock | 3 |
| 15 | 3256-4 | Washer, 3/8 std flat | 2 |
| 16 ★ | 3290-357 | Nut, 3/8-16 whizlock | 18 |
| ● | 3290-357 | Nut, 3/8-16 whizlock | 16 |
| 17 | 1-413282 | Linkage | 1 |
| 18 | 1-806003 | Hairpin cotter | 1 |
| 19 | 1-412515-01 | Deck weldmt, engine | 1 |
| 20 | 323-4 | Screw, 3/8-16 x 3/4 | 2 |
| 21 | 1-633068 | Arm | 1 |
| 22 | 32128-20 | Nut, 5/16-18 whizlock | 15 |
| 23 | 1-303334 | Washer, 5/16 disc spring | 5 |
| 24 ★ | 1-322110 | Guide weldmt, belt | 1 |
| 25 ★ | 322-7 | Screw, 5/16-18x1-1/2 | 3 |
| ● | 322-7 | Screw, 5/16-18x1-1/2 | 4 |
| 26 ★ | 322-9 | Screw, 5/16-18x1-3/4 | 1 |
| 27 | 3256-3 | Washer, 5/16 std flat | 2 |
| 28 ★ | 1-323366 | Ring, split | 1 |
| 29 | 3296-39 | Nut, 3/8-16 nylock | 5 |
| 30 | 323-6 | Screw, 3/8-16 x 1 | 8 |
| 31 | 1-412080-01 | Mount, wheel motor 36" | 2 |
| | 1-412082-01 | Mount, wheel motor 48"&52" | 2 |
| 32 | 3234-12 | Screw.3/8-16 x 3/4 whizlock | 8 |
| 33 | 1-602997 | Hub, four bolt w/studs | 2 |
| | 1-633926 | Stud | 8 |
| 34 | 1-413473 | Wheel & tire assy | 2 |
| | 1-413474 | Tire 16 x 6.50-8 | 2 |
| | 1-603715 | Wheel | 2 |
| 35 | 242-50 | Nut, wheel 1/4-20 | 8 |
| 36 | 32136-5 | Nut, slotted 3/4-16 | 2 |
| 37 | 1-806800 | Pin, cotter 9/64 x 1-1/2 | 2 |
| 38 | 1-807264 | Key, 1/4sq x 2-5/8 | 1 |
| 39 | 1-413004 | Sheave assy, drive | 1 |
| 40 | 1-603609 | Bushing | 1 |
| 41 | 1-373034 | Washer, pivot | 2 |
| 42 | 1-603610 | Washer | 2 |
| 43▽ | 3212-10 | Screw,7/16-20x2-1/2 | 1 |
| 44 | 3256-24 | Washer, 3/8 SAE flat | 1 |
| 45 | 1-603843 | Pulley, idler | 1 |
| 46 | 1-603496 | Bushing - Idler | 1 |
| 47 | 1-603402 | Spring, extension | 1 |
| 48 | 1-412136-03 | Idler arm weldmt | 1 |
| | 1-414141 | Idler arm weldmt w/brgs | 1 |
| 49 | 1481 | Zerk, 45 degree | 2 |
| 50 | 323-13 | Screw, 3/8-16 x 2-3/4 | 1 |
| 51 | 323-9 | Screw, 3/8-16 x 1-3/4 | 2 |
| 52★ | 1-809069 | Screw, #10-24 x 7/8 | 1 |
| 53★ | 1-323365 | Chain, cold start | 1 |
| 54★ | 3256-14 | Washer, 7/32 std flat | 1 |
| 55★ | 3296-2 | Nut, #10-24 nylock | 1 |
| 56 | 1-807272 | Key, 5mm sq x 25mm | 2 |
| 57▽ | 1-803050 | Setscrew,sq hd cuppoint | 4 |
| 58 | 1-413095 | Belt, pump drive | 1 |
| 59 | 1-413010 | Sheave, pump drive | 2 |
| 60 | 1-413096 | Belt, blade clutch | 1 |
| 61 | 1-807259 | Key, 1/4 sq x 1 | 2 |
| 62 | 1-412011 | Sheave w/shaft | 1 |
| 63 | 1-413111 | Bearing, clutch | 2 |
| 64 | 32120-8 | Ring, retaining | 2 |
| 65 | 1-413012 | Spacer, bearing | 1 |
| 66 | 1-523157 | Washer, spacer | 1 |
| 67 | 1-413049-01 | Plate, clutch pivot | 1 |
| 68 | 322-5 | Screw, 5/16-18 x 1 | 6 |
| 69 | 1-413207 | Pivot, bearing | 2 |
| 70 | 1-412417-03 | Arm weldmt, clutch | 1 |
| | 1-414418 | Arm weldmt, clutch w/brgs | 1 |
| 71 | 1-413235 | Washer, spacer | 1 |
| 72 | 1-412138-03 | Pin weldmt, pivot | 1 |
| 73 | 322-3 | Screw, 5/16-18 x 3/4 | 3 |
| 74 | 1-413062 | Band, brake | 1 |
| 75 | 323-8 | Screw, 3/8-16 x 1 1/2 | 2 |
| 76 | 1-412325 | Guide weldmt, belt | 1 |
| 77 | 1-412031 | Sheave w/drum (36" & 52") | 1 |
| | 1-412028 | Sheave w/drum (48") | 1 |
| 78▽ | 1-800521 | Screw, 3/8-24 x 1 | 1 |
| 79 | 1-413009-01 | Plate, guard | 1 |
| 80 | 1-323607 | Shield, trailing | 1 |
| 81 | 1-413510 | Clip, loom - .50 | 2 |
| 82 | 1-413511 | Hanger, drag shield | 2 |

▽ Use Pro-Lock (nut type, Part no. 1-840022, 5 ml tube):
- on setscrew threads.
- on sheave retaining bolt in engine crankshaft.
- on sheave retaining bolt on clutch arm.

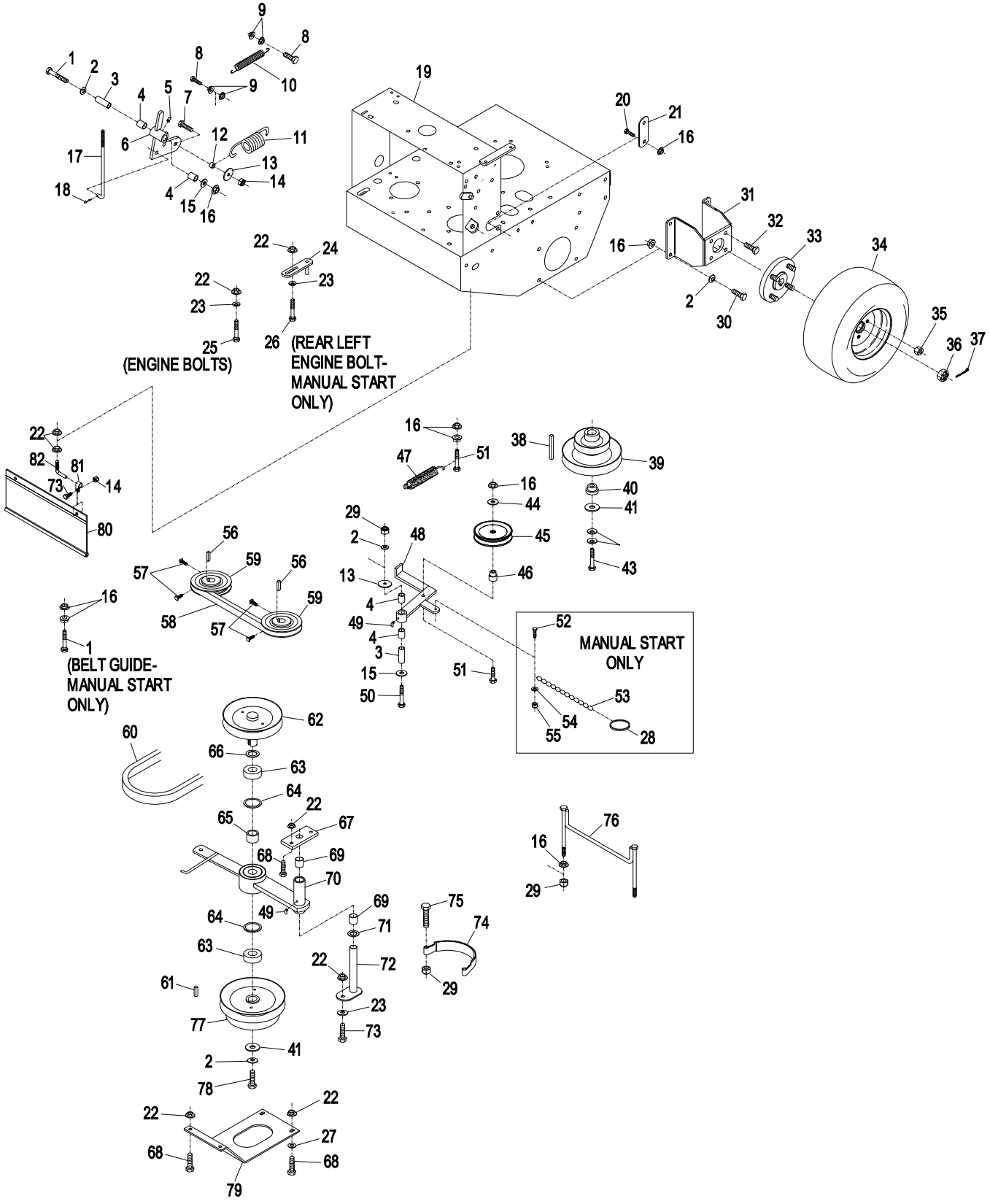
Exmark red touch up spray paint - P/N 1-850337

● Electric start only

Apply antiseize to:
- between engine crankshaft and pump and blade drive sheave.
- between sheave w/shaft and bearing bores and sheave w/drum.
- between wheel hub and motor shafts.
- between pump shafts and sheaves.

★ Manual start only

# ENGINE DECK GROUP



## ENGINE DECK GROUP (con't.)

| Ref. No. | Part No. | Description | Qty. Req'd. |
|---|---|---|---|
| 1 | 1-323245 | Spring | 1 |
| 2 | 32128-20 | Nut, 5/16-18 whizlock | 18 |
| 3 | 3296-29 | Nut, 5/16-18 nylock | 4 |
| 4 | 1-613089 | Tab, spring extension | 2 |
| 5 | 1-603693 | Spring, extension | 2 |
| 6 | 1-413201-01 | Shield, hydro | 2 |
| 7● | 323-16 | Screw, 3/8-16 x 4 | 7 |
| ✧ | 323-16 | Screw, 3/8-16 x 4 | 8 |
| 8 | 302-19 | Zerk, 1/4-28 | 2 |
| 9 | 322-3 | Screw, 5/16-18 x 3/4 | 4 |
| 10 | 1-805005 | Washer, 5/16 hvy spr lock | 4 |
| 11 | 3256-2 | Washer, 1/4 std flat | 6 |
| 12 | 3290-357 | Nut, 3/8-16 whizlock | 18 |
| \| | 3290-357 | Nut, 3/8-16 whizlock | 20 |
| 13 | 1-323195-01 | Spacer, shield | 4 |
| 14 | 1-633102 | Bearing, side flange | 2 |
| 15 | 1-323197-01 | Spacer, shield | 4 |
| 16 | 1-603737 | Bolt, neutral return | 2 |
| 17 | 1-603807 | Spring, neutral return | 2 |
| \| | 103-0265 | Spring, neutral return | 2 |
| 18 | 1-603735 | Bushing, nylon | 2 |
| 19 | 3219-2 | Nut, 5/16-24 hex | 7 |
| 20 | 1-303105 | Yoke | 2 |
| 21 | 1-808280 | Clevis pin, 5/16 x 1 | 2 |
| 22 | 1-806003 | Hairpin cotter | 2 |
| 23 | 3220-2 | Nut, 5/16-24 jam | 2 |
| 24 | 1-413350 | Rod, control | 2 |
| 25 | 1-412203 | Crank weldmt | 1 |
| 26 | 1-413219 | Rod, drive lever | 2 |
| 27 | 3256-23 | Washer, 5/16 SAE | 7 |
| 28 | 1-603676 | Swivel, short | 2 |
| 29 | 1-800016 | Tap Bolt 5/16-18 x 1-1/4 | 2 |
| 30[ | 103-1235 | Swivel, drive lever ("B") | 2 |
| | 1-413227 | Swivel, drive lever ("A") | 2 |
| 31♦ | 1-803022 | Setscrew, 5/16-18x5/8 | 2 |
| 32\| | 103-1190-01 | Arm weldmt, LH | 1 |
| [ | 103-1190-01 | Arm weldmt, LH ("B") | 1 |
| [ | 1-402110 | Arm weldmt, LH ("A") | 1 |
| 33\| | 103-1191-01 | Arm weldmt, RH | 1 |
| [ | 103-1191-01 | Arm weldmt, RH ("B") | 1 |
| [ | 1-402111 | Arm weldmt, RH ("A") | 1 |
| 34[ | 32151-47 | Klipring .375 shaft ("B") | 2 |
| | 32151-73 | Klipring ("A") | 2 |
| 35 | 322-6 | Screw, 5/16-18 x 1-1/4 | 2 |
| 36 | 3272-5 | Cotter pin, 3/32 x 1/2 | 2 |
| 37 | 1-603903 | Spacer | 1 |
| 38 | 1-403180 | Screw, CapHH 5/16-18x1… | 2 |
| 39♦ | 1-809056 | Bolt,.375x.375 hx skt hd | 2 |
| 40 | 3256-24 | Washer, 3/8 SAE flat | 2 |
| 41 | 1-413151 | Knob | 1 |
| 42 | 1-414507 | Kit, oil drain valve | 1 |
| 43 | 323-6 | Screw, 3/8-16 x 1 | 8 |
| 44 | 1-413252-01 | Bracket, sulky LH | 1 |
| 45 | 1-413254-01 | Bracket, sulky RH | 1 |
| 46 | 1-411255 | Sulky kit | 1 |
| 47✧ | 1-413505 | Valve, oil drain | 1 |
| 48✧ | 1-413506 | O-ring | 1 |
| 49✧ | 32128-33 | Nut ¼-20 whizlock | 2 |
| 50✧ | 1-543390 | Insulator, battery - | 1 |
| 51✧ | 1-413540 | Battery cable | 1 |
| 52✧ | 1-543891 | Battery cover | 1 |
| 53✧ | 103-0293 | Battery – 12V MNFLD | 1 |
| 54✧ | 103-1097 | Stand w/trim lock 259,999&lower | 1 |
| | 103-1098 | Stand w/trim lock 260,000&higher | 1 |
| 55✧ | 1-413541 | Trim-lok | 1 |
| 56✧ | 1-543882 | Bolt-hold down | 2 |
| 57✧ | 1-543792 | Wingnut, nylock ¼-20 | 2 |
| 58✧ | 321-4 | Screw Cap HH ¼-20 X 3/4 | 2 |
| 59 ● | 323-23 | Screw,3/8-16 x 4 1/2 | 1 |
| ✧ | 323-16 | Screw,3/8-16 x 4 | 1 |
| 60 ● | 3296-39 | Nut,3/8-16 nylock | 1 |
| 61 | 98-3975 | Washer,disc spring 3/8 | 2 |
| 62\| | 103-1148 | Rod,drive lever | 2 |
| 63\| | 323-8 | Screw,3/8-16 x 1 1/2 | 2 |
| 64\| | 103-1167 | Joint,.375 LH ball end | 2 |
| 65\| | 103-1166 | Tube,pump link spacer | 2 |
| 66\| | 3220-16 | Nut,jam 3/8-24 LH | 2 |

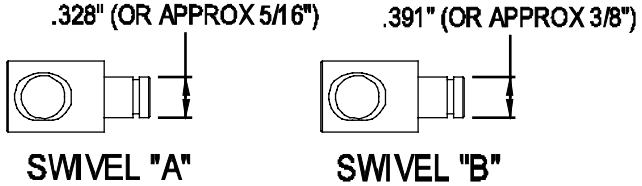
♦ Use Pro-Lock nut type, Part No. 1-840022 (.5 ml tube) on shoulder bolt & setscrew threads.
Exmark red touch up spray paint - PN 1-850337

✧ Electric start only

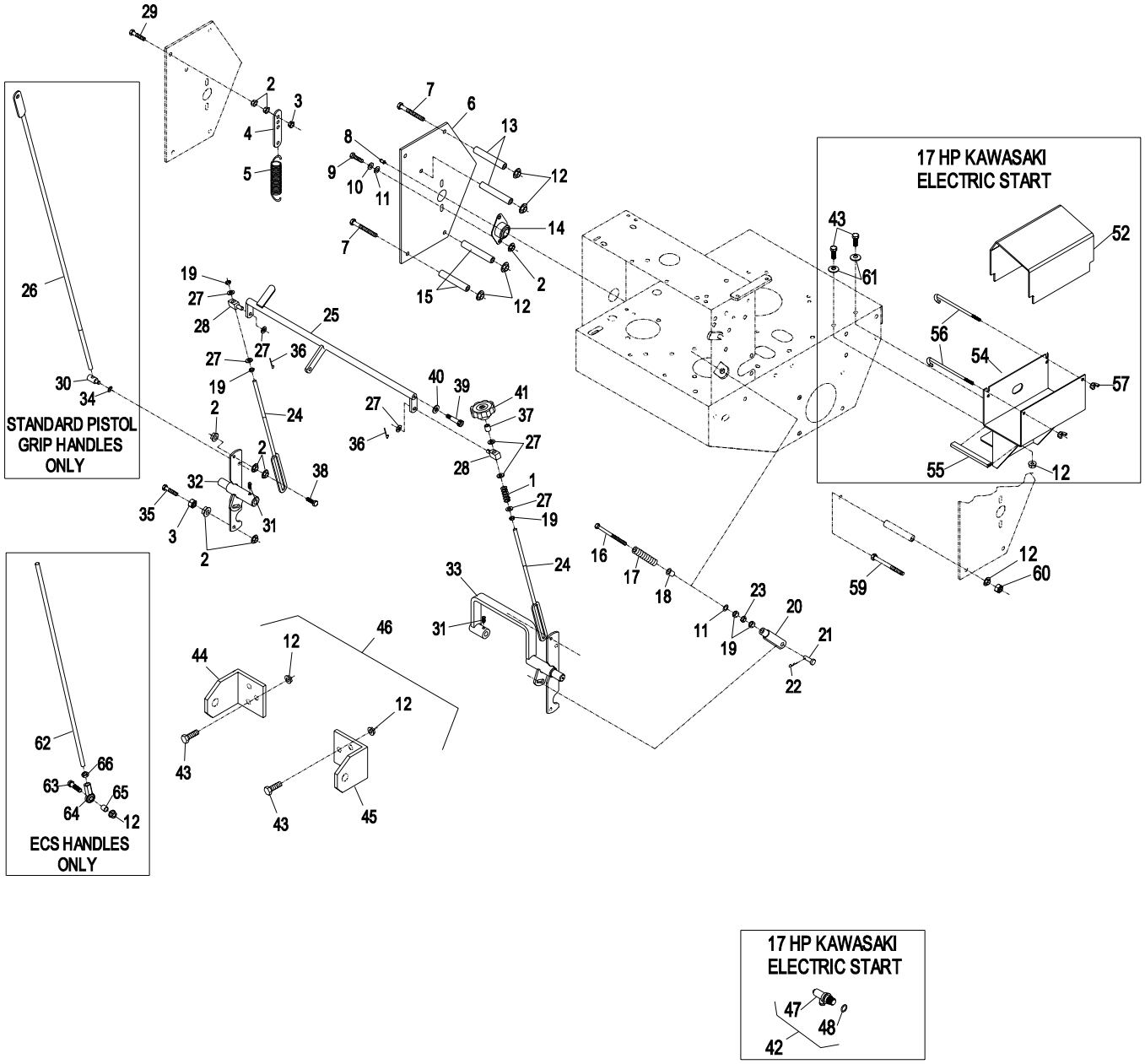
● Manual start only

| Models with ECS handles only
Models with Standard pistol grip handles only

[ There are two swivel combinations available on the unit. Measure the diameter of the drive lever swivel shaft as shown to determine which components are required.



# ENGINE DECK GROUP (con't.)



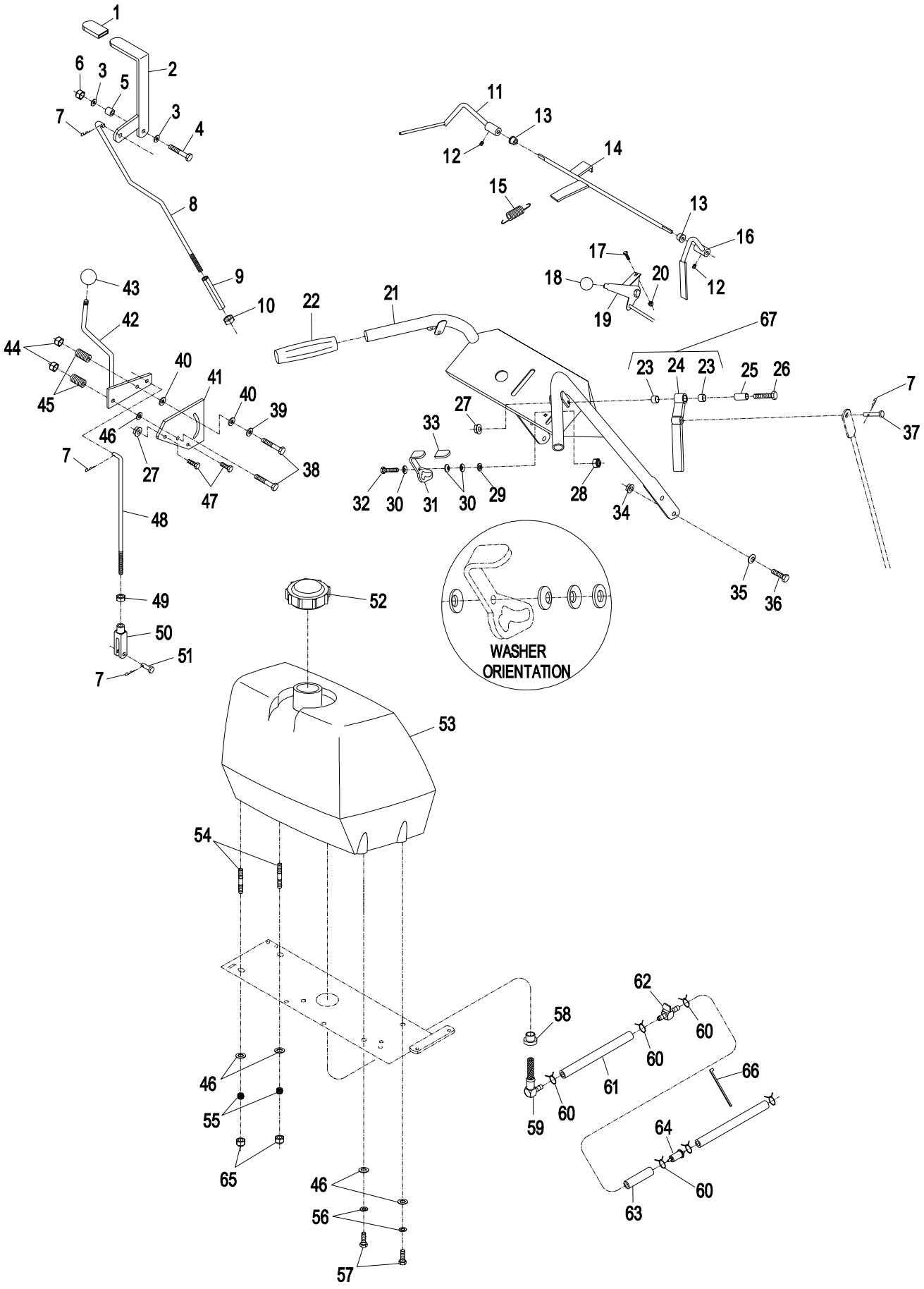
# STANDARD PISTOL GRIP UPPER HANDLES and CONTROLS

| Ref. No. | Part No. | Description | Qty. Req'd. |
|---|---|---|---|
| 1 | 1-303020 | Grip | 1 |
| 2 | 1-414234 | Asm, Lever/grip(1-412295) | 1 |
| 3 | 3256-4 | Washer, 3/8 std flat | 2 |
| 4 | 323-9 | Screw, 3/8-16 x 1-3/4 | 1 |
| 5 | 1-413088 | Spacer | 1 |
| 6 | 3296-39 | Nut, 3/8-16 nylock | 1 |
| 7 | 1-806003 | Hairpin cotter | 5 |
| 8 | 1-413293 | Rod, blade engagement | 1 |
| 9 | 1-413279 | Turnbuckle | 1 |
| 10 | 3217-7 | Nut, 3/8-16 hex | 1 |
| 11∇ | 1-412183-03 | Lever weldmt opc LH | 1 |
| 12♦ | 1-803322 | Setscrew, 5/16-24 x 5/16 | 2 |
| 13 | 1-303365 | Bushing, nylon | 2 |
| 14 | 1-322192-03 | Rod weldmt, opc | 1 |
| 15 | 1-303363 | Spring, actuator | 1 |
| 16∇ | 1-412185-03 | Lever weldmt, opc RH | 1 |
| 17 | 1-807513 | Bolt, #10-24 x 1/2 carriage | 2 |
| 18 | 1-513592 | Knob, red throttle | 1 |
| 19 | 1-413428 | Throttle control | 1 |
| 20 | 3296-2 | Nut, #10-24 nylock | 4 |
| 21 | 103-0213 | Handle wld,upper w/ decals | 1 |
| | 1-412448-03 | Handle wld,upper | 1 |
| 22 | 1-303097 | Grip, handle | 2 |
| 23 | 1-413152 | Bearing | 4 |
| 24 | 1-412159-03 | Lever, drive LH | 1 |
| | 1-412161-03 | Lever, drive RH (shown) | 1 |
| 25 | 1-603749 | Bushing, drive lever | 2 |
| 26 | 321-9 | Screw, 1/4-20 x 1-1/2 | 2 |
| 27 | 32128-33 | Nut, 1/4-20 whizlock | 4 |
| 28 | 3296-42 | Nut, 1/4-20 Nylock | 3 |
| 29 | 3256-2 | Washer 1/4 std flat | 3 |
| 30 | 1-303435 | Washer, 1/4 disc spr(shown) | 6 |
| 31 | 1-612168 | Thumb latch w/grip RH | 1 |
| | 1-612167 | Thumb latch w/grip LH | 1 |
| 32 | 321-10 | Screw, 1/4-20 x 1-3/4 | 2 |
| 33 | 1-303019 | Grip, latch | 2 |
| 34 | 3290-357 | Nut, 3/8-16 whizlock | 4 |
| 35 | 98-5975 | Washer, 3/8 disc spring | 4 |
| 36 | 323-6 | Screw, 3/8-16 x 1 | 4 |
| 37 | 1-613055 | Pin, clevis | 2 |
| 38 | 322-10 | Screw, 5/16-18 x 2 | 2 |
| 39 | 1-603716 | Washer, friction disc | 1 |
| 40 | 1-323244 | Washer, friction | 2 |
| 41 | 1-603730 | Plate, shifter lever | 1 |
| 42 | 1-602733 | Lever weldmt, shift | 1 |
| 43♦ | 1-603175 | Knob | 1 |
| 44 | 3296-29 | Nut, 5/16-18 nylock | 2 |
| 45 | 1-323245 | Spring, compression | 2 |
| 46 | 3256-23 | Washer 5/16 SAE flat | 5 |
| 47 | 321-3 | Screw, 1/4-20 x 5/8 | 2 |
| 48 | 1-413225 | Rod, speed control | 1 |
| 49 | 3220-2 | Nut, 5/16-24 jam | 1 |
| 50 | 1-303105 | Yoke | 1 |
| 51 | 1-808280 | Clevis pin 5/16 x 1 | 1 |
| 52 | 1-513508 | Cap, fuel | 1 |
| 53 | 1-413179 | Tank, fuel | 1 |
| 54∇ | 1-633023 | Stud, fuel tank | 2 |
| 55 | 1-633349 | Spring, fuel tank | 2 |
| 56 | 1-805005 | Washer, 5/16 hvy lock | 2 |
| 57 | 322-3 | Screw, 5/16-18 x 3/4 | 2 |
| 58 | 1-513645 | Bushing, fuel valve | 1 |
| 59 | 1-543277 | Elbow, fuel tank | 1 |
| 60 | 1-303077 | Clamp, fuel line | 4 |
| 61 | 1-603955 | Hose, fuel line 6” | 1 |
| 62 | 1-603770 | Valve, fuel | 1 |
| 63 | 1-303022 | Hose, fuel line 8.5” | 1 |
| 64 | Kawasaki PN 41019-1055 w/6” fuel line | | 1 |
| 65 | 3296-47 | Nut, nyloc thin 5/16-18 | 2 |
| 66 | 1-303335 | Tie, plastic | 2 |
| 67 | 103-0219 | Asm, Drive Lever RH | 1 |
| | 103-0218 | Asm, Drive Lever LH | 1 |

♦ Use Pro-Lock nut type, Part no. 1-840022 (.5cc tube) on setscrew threads and on shifter knob threads.

∇ Use Pro-Lock retaining type, Part no. 1-840023 (.5cc tube) on inside of bore of OPC hub and on fuel tank studs. Exmark black touch up spray paint - Gloss black

## STANDARD PISTOL GRIP UPPER HANDLES and CONTROLS



# ECS UPPER HANDLES and CONTROLS

| Ref. No. | Part No. | Description | Qty. Req'd. |
|---|---|---|---|
| 1 | 1-303020 | Grip | 1 |
| 2 | 1-414234 | Asm, Lever/grip(1-412295) | 1 |
| 3 | 3256-4 | Washer, 3/8 std flat | 2 |
| 4 | 323-11 | Screw, 3/8-16 x 2-1/4 | 1 |
| 5 | 323-10 | Screw,3/8-16 x 2 | 1 |
| 6 | 3296-39 | Nut, 3/8-16 nylock | 3 |
| 7 | 1-806003 | Hairpin cotter | 3 |
| 8 | 103-1149 | Link, blade engagement | 1 |
| 9 | 1-413279 | Turnbuckle | 1 |
| 10 | 3217-7 | Nut, 3/8-16 hex | 1 |
| 11∇ | 103-0767-03 | Lever weldmt opc LH | 1 |
| 12♦ | 1-803322 | Setscrew, 5/16-24 x 5/16 | 2 |
| 13 | 1-303365 | Bushing, nylon | 2 |
| 14 | 103-0769-03 | Lever axle weldmt, opc | 1 |
| 15 | 1-303363 | Spring, opc extension | 1 |
| 16∇ | 103-0768-03 | Lever weldmt, opc RH | 1 |
| 17 | 1-807513 | Bolt, #10-24 x 1/2 carriage | 2 |
| 18 | 1-513592 | Knob, red throttle | 1 |
| 19 | 1-413428 | Throttle control (kaw) | 1 |
| 20 | 3296-2 | Nut, #10-24 nylock | 4 |
| 21 | 103-0770-03 | Handle wld, upper ecs | 1 |
| 22 | 103-0815 | Grip, handle bar | 2 |
| 23 | 1-413152 | Bearing | 4 |
| 24 | 103-0771-03 | Lever, drive LH | 1 |
| 25 | 103-0027 | Bushing, drive lever | 2 |
| 26 | 321-14 | Screw,1/4-20 x 2 3/4 | 2 |
| 27 | 32128-33 | Nut, 1/4-20 whizlock | 12 |
| 28 | 103-0464 | Pin,1/8 x 1/2 spring | 2 |
| 29 | 3256-22 | Washer 1/4 sae flat | 10 |
| 30 | 1-303435 | Washer, 1/4 disc spring | 6 |
| 31 | 103-1371 | Thumb latch asm RH(shown) | 1 |
| | 103-1372 | Thumb latch asm LH | 1 |
| 32 | 103-0235 | Screw, 1/4-20 x 1-1/8 w/nylon | 2 |
| 33 | 103-0772-03 | Lever,drive RH | 1 |
| 34 | 3290-357 | Nut, 3/8-16 whizlock | 4 |
| 35 | 98-5975 | Washer, 3/8 disc spring | 4 |
| 36 | 323-6 | Screw, 3/8-16 x 1 | 4 |
| 37 | 3220-3 | Nut,jam 3/8-24 | 4 |
| 38 | 322-10 | Screw, 5/16-18 x 2 | 2 |
| 39 | 1-603716 | Washer, friction disc | 1 |
| 40 | 1-323244 | Washer, friction | 2 |
| 41 | 103-0546-03 | Wld,upper handle console | 1 |
| | 103-1347 | Console w/ decals ∀ | 1 |
| | 103-1348 | Console w/ decals [ | 1 |
| 42 | 103-0773 | Speed shift weldmt | 1 |
| 43 | 103-0423 | Knob .38-16 nyloc | 1 |
| 44 | 3296-29 | Nut, 5/16-18 nyloc | 2 |
| 45 | 1-323245 | Spring, compression | 2 |
| 46 | 3256-23 | Washer 5/16 SAE flat | 5 |
| 47 | 321-3 | Screw, 1/4-20 x 5/8 | 10 |
| 48 | 1-413225 | Rod, speed control | 1 |
| 49 | 3220-2 | Nut, 5/16-24 jam | 1 |
| 50 | 1-303105 | Yoke | 1 |
| 51 | 1-808280 | Clevis pin 5/16 x 1 | 1 |
| 52 | 1-513508 | Cap, fuel | 1 |
| 53 | 1-413179 | Tank, fuel | 1 |
| 54∇ | 1-633023 | Stud, fuel tank | 2 |
| 55 | 1-633349 | Spring, fuel tank | 2 |
| 56 | 1-805005 | Washer, 5/16 hvy lock | 2 |
| 57 | 322-3 | Screw, 5/16-18 x 3/4 | 2 |
| 58 | 1-513645 | Bushing, fuel valve | 1 |
| 59 | 1-543277 | Elbow, fuel tank | 1 |
| 60 | 1-303077 | Clamp, fuel line | 4 |
| 61 | 1-603955 | Hose, fuel line 6" | 1 |
| 62 | 1-603770 | Valve, fuel | 1 |
| 63 | 1-303022 | Hose, fuel line 8.5" | 1 |
| 64 | Kawasaki PN 41019-1055 w/6" fuel line… | | 1 |
| 65 | 3296-47 | Nut, nyloc thin 5/16-18 | 2 |
| 66 | 1-303335 | Tie, plastic | 2 |
| 67 | 103-0219 | Asm, Drive Lever RH | 1 |
| | 103-0218 | Asm, Drive Lever LH | 1 |
| 68 | 103-0608 | Joint,.375 ball end | 2 |
| 69 | 103-0503 | Bracket,shifter slide | 1 |
| 70 | 103-0489-03 | Bracket,opc axle | 1 |
| 71 | 3219-3 | Nut,reg hex 3/8-24 | 2 |

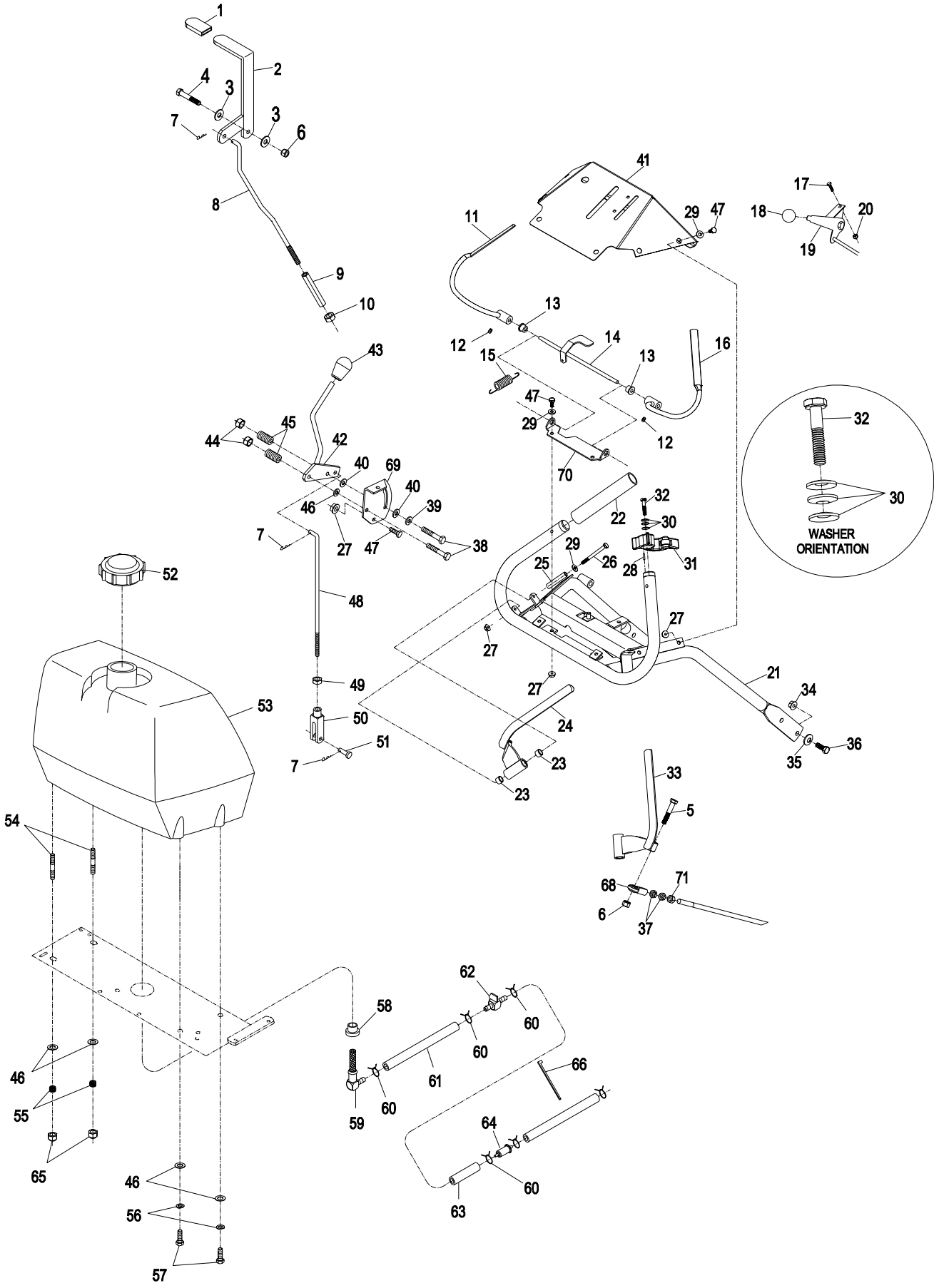
♦ Use Pro-Lock nut type, Part no. 1-840022 (.5cc tube) on setscrew threads and on shifter knob threads.

∇ Use Pro-Lock retaining type, Part no. 1-840023 (.5cc tube) on inside of bore of OPC hub and on fuel tank studs. Exmark black touch up spray paint - Gloss black

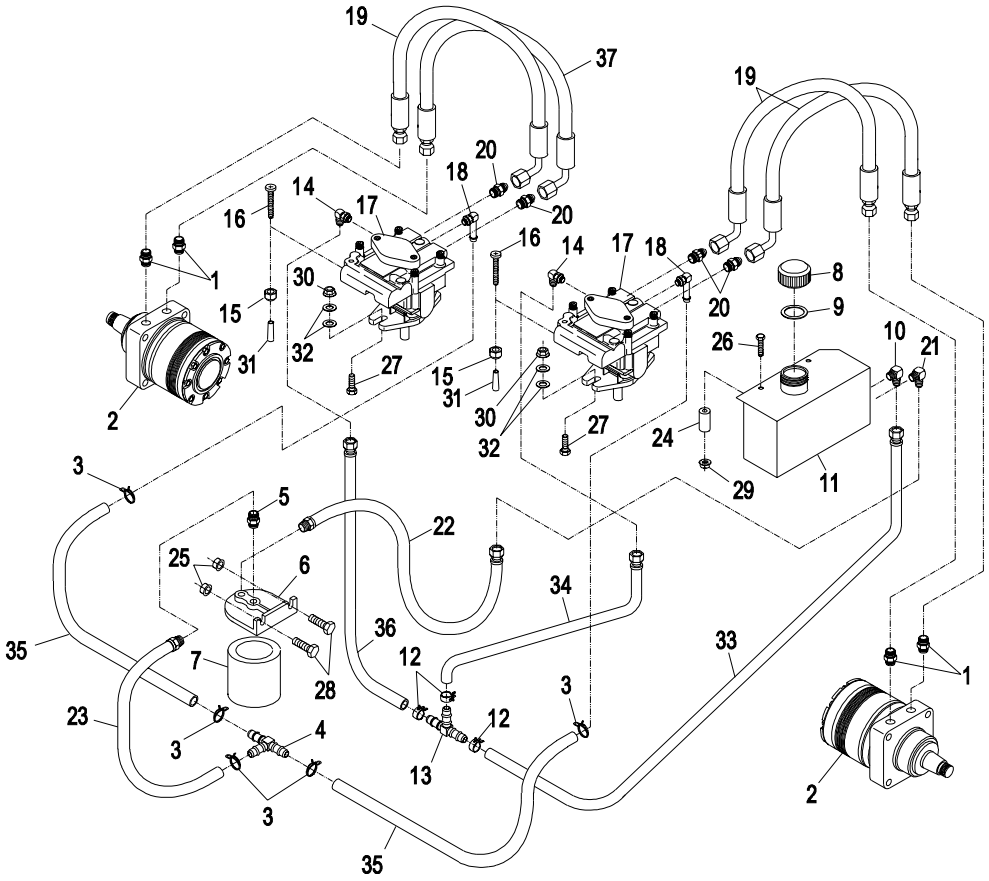
∀ Electric start only

[ Manual start only

# ECS UPPER HANDLES and CONTROLS



# HYDRAULICS GROUP




| Ref. No. | Part No. | Description | Qty. Req'd. |
|---|---|---|---|
| 1 | 1-603991 | Fitting, strght connector ..... | 4 |
| | 1-603919 | Boss O-Ring..... | 1 |
| | 1-603992 | Flare O-Ring ..... | 1 |
| 2 | 1-603718 | Wheel motor ..... | 2 |
| | 1-000138 | Kit, Bearing..... | 1 |
| | 1-000119 | Kit, seal ..... | 1 |
| 3 | 1-603827 | Clamp, hose (5/8) ..... | 5 |
| 4 | 1-603721 | Fitting, Hose Tee (3/8 I.D).. | 1 |
| 5 | 1-513510 | Connector, male..... | 1 |
| 6∗ | 1-603720 | Head, filter..... | 1 |
| 7 | 1-513211 | Element, oil filter ..... | 1 |
| ∇ | 1-523541 | Element, oil filter(winter) .... | 1 |
| 8 | 1-513167 | Cap, hydraulic reservoir ..... | 1 |
| 9 | 1-523103 | Gasket, tank cap..... | 1 |
| 10 | 1-603987 | Elbow, 90° ..... | 1 |
| 11∗ | 1-512166-03 | Reservoir, hydraulic fluid.... | 1 |
| 12 | 1-603826 | Hose Clamp 1/2 ..... | 3 |
| 13 | 1-603722 | Fitting - Hose Tee(1/4 I.D) . | 1 |
| 14 | 1-513840 | Elbow - 90° ..... | 2 |
| | 1-603921 | O-Ring..... | 1 |
| 15 | 3296-42 | Nut, nylock 1/4-20 ..... | 2 |
| 16 | 1-801063 | Screw, 1/4-20x2 pan head . | 2 |
| 17 | 1-613042 | Pump, hydro..... | 2 |

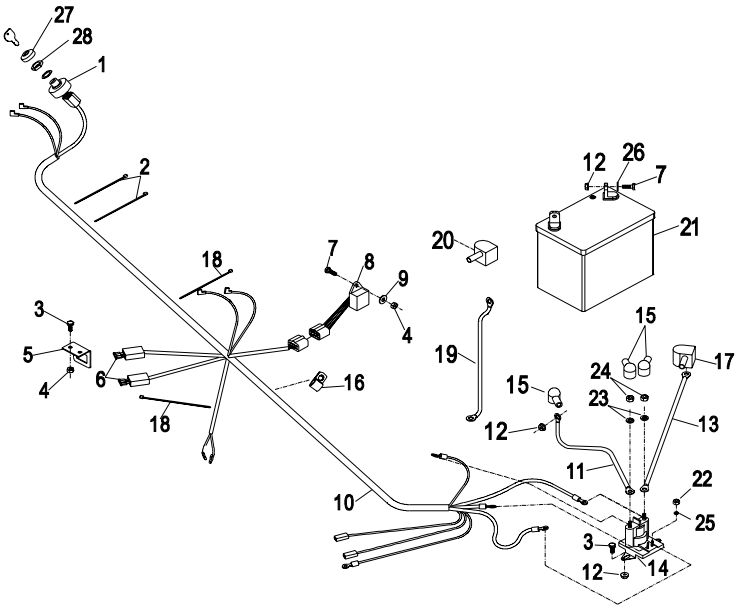
| Ref. No. | Part No. | Description | Qty. Req'd. |
|---|---|---|---|
| 18 | 1-603989 | Elbow, 90°..... | 2 |
| | 1-603923 | O-Ring ..... | 1 |
| 19 | 1-613034 | Hose, high pressure ..... | 3 |
| 20 | 1-603990 | Adapter, straight thread ..... | 4 |
| | 1-603920 | Boss O-Ring ..... | 1 |
| | 1-603992 | Flare O-Ring ..... | 1 |
| 21 | 1-603988 | Elbow, 90°..... | 1 |
| 22 | 1-602985 | Hose, supply..... | 1 |
| 23 | 1-602754 | Hose, charge line..... | 1 |
| 24 | 1-323218 | Spacer, hydraulic tank ..... | 2 |
| 25 | 32128-20 | Nut, whizlock 5/16-18 ..... | 2 |
| 26 | 321-11 | Screw, 1/4-20 x 2..... | 2 |
| 27 | 323-7 | Screw, 3/8-16 x 1-1/4 ..... | 4 |
| 28 | 322-5 | Screw, 5/16-18 x 1..... | 2 |
| 29 | 32128-33 | Nut, whizlock 1/4-20 ..... | 2 |
| 30 | 3290-357 | Nut, whizlock 3/8-16 ..... | 4 |
| 31 | 1-613073 | Grip, dump valve ..... | 2 |
| 32 | 3256-3 | Washer, 5/16 std ..... | 8 |
| 33 | 1-602750 | Hose, case drain..... | 1 |
| 34 | 1-632286 | Hose assy, lo pressure ..... | 1 |
| 35 | 1-413273 | Hose, lo pressure ..... | 2 |
| 36 | 1-632285 | Hose assy, lo pressure ..... | 1 |
| 37 | 1-323241 | Hose, high pressure ..... | 1 |

∗ Use Teflon Pipe Sealant or equivalent on hydraulic reservoir and filter head fittings.

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

Exmark black touch up spray paint - gloss black

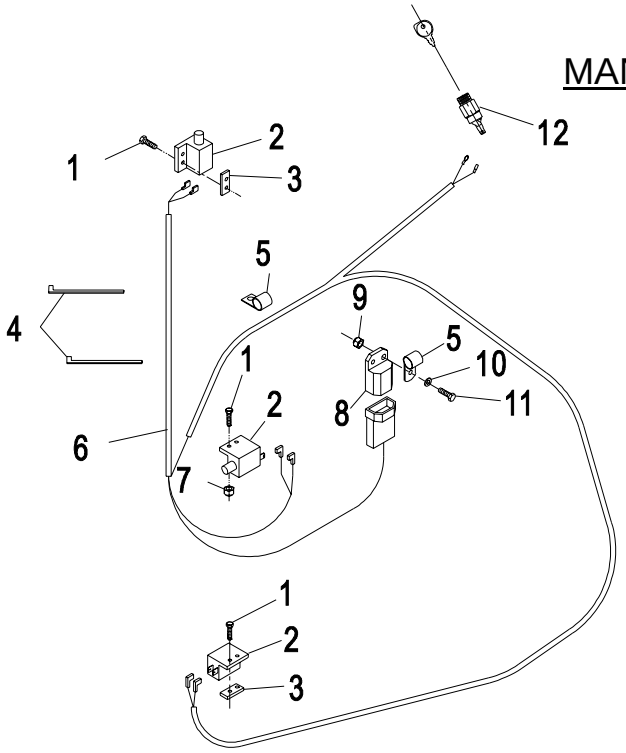
# ELECTRIC START




| Ref. No. | Part No. | Description | Qty. Req'd. |
|---|---|---|---|
| 1 | 103-0206 | Switch, ignition | 1 |
| | 1-603511 | Keys, ignition | 1 |
| 2 | 1-303335 | Tie, plastic | 2 |
| 3 | 323-1 | Screw, ¼-20 x 5/8 | 4 |
| 4 | 3296-42 | Nut, ¼-20 nylock | 3 |
| 5 | 1-323442-01 | Bracket, fuse | 1 |
| 6 | 1-816001 | Fuse, 20A | 2 |
| 7 | 321-4 | Screw, ¼-20 x 3/4 | 3 |
| 8 | 1-613198 | Module | 1 |
| 9 | 3256-23 | Washer, 5/16 sae flat | 1 |
| 10● | 103-1182 | Harness, wiring | 1 |
| 11 | 1-633306 | Cable, Solenoid/Starter + | 1 |
| 12 | 32128-33 | Nut, ¼-20 whizlock | 6 |
| 13 | 1-603490 | Cable, battery + | 1 |
| 14 | 1-513075 | Switch, 12V solenoid | 1 |
| 15 | 1-543393 | Insulator, solenoid + | 3 |
| 16 | 1-603727 | Clip, loom | 1 |
| 17 | 1-543391 | Insulator, battery + | 1 |
| 18 | 1-303287 | Tie, plastic | 2 |
| 19 | 1-413540 | Battery cable | 1 |
| 20 | 1-543390 | Insulator, battery - | 1 |
| 21 | 103-0293 | Battery, 12V MNFLD | 1 |
| 22 | 3219-14 | Nut, hex #10-32 GR2,YZ | 2 |
| 23 | 3253-4 | Washer-lok .313 | 2 |
| 24 | 3220-2 | Nut, jam 5/16 - 24 | 2 |
| 25 | 3253-17 | Washer,lok .190 | 2 |
| 26 | 3256-2 | Washer,1/4 flat | 2 |
| 27 | 103-0499 | Seal, Ignition Switch | 1 |
| 28 | 103-0498 | Nut, Ignition Switch | 1 |

● Use dielectric grease on all electrical connectors.

# MANUAL START




| Ref. No. | Part No. | Description | Qty. Req'd. |
|---|---|---|---|
| 1 | 3290-500 | Screw, #10-24 x 5/8 | 6 |
| 2 | 1-513051 | Switch | 3 |
| 3 | 1-633181 | Plate, tapped | 2 |
| 4 | 1-303287 | Tie, plastic | 3 |
| 5 | 1-323229 | Clip, loom | 2 |
| 6● | 103-1181 | Harness, wiring | 1 |
| 7 | 1-804002 | Nut, square #10-24 | 2 |
| 8 | 1-323430 | Module, interlock | 1 |
| 9 | 3296-42 | Nut, nulock ¼-20 | 1 |
| 10 | 3256-2 | Washer, ¼ std flat | 1 |
| 11 | 321-4 | Screw, ¼-20 x 3/4 | 1 |
| 12 | 1-403121 | Switch, on/off | 1 |
| | 1-603511 | Keys, ignition | 1 |

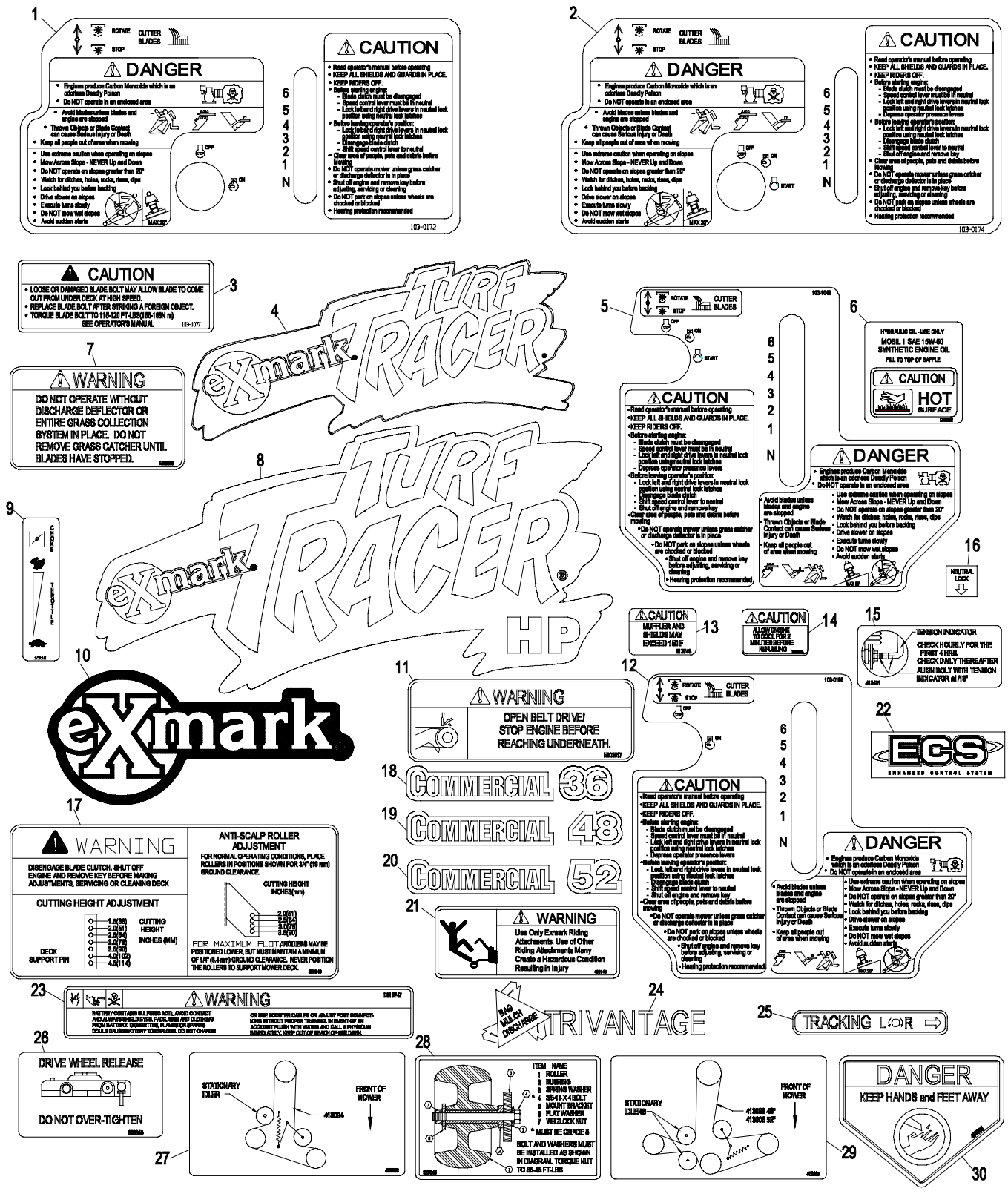
● Use dielectric grease on all electrical connectors.

# DECALS

| Ref. No. | Part No. | Description | Qty. Req'd. |
|---|---|---|---|
| 1∀\| | 103-0172 | Decal, console | 1 |
| 2∀Y | 103-0174 | Decal, console | 1 |
| 3 | 103-1077 | Decal, bolt torque | 1 |
| 4∀ | 1-613049 | Decal, console | 1 |
| 5 Y | 103-1043 | Decal, console ECS | 1 |
| 6 | 1-523552 | Decal, hydraulic tank | 1 |
| 7 | 1-303508 | Decal, discharge warning | 1 |
| 8 | 1-413342 | Decal, swash | 1 |
| 9 | 1-323691 | Decal, throttle | 1 |
| 10 | 1-643386 | Decal, exmark logo | 1 |
| 11 | 1-303517 | Decal, belt drive | 1 |
| 12 \| | 103-0186 | Decal, console ECS | 1 |
| 13 | 1-513746 | Decal, muffler | 2 |
| 14 | 1-303293 | Decal, 2 min cool | 1 |
| 15 | 1-413421 | Decal, indicator | 1 |
| 16∀ | 1-303102 | Decal, neutral lock | 2 |
| 17 | 1-553049 | Decal, mower deck | 1 |
| 18 | 1-323411 | Decal, commercial 36 | 1 |
| 19 | 1-403131 | Decal, commercial 48 | 1 |
| 20 | 1-403132 | Decal, commercial 52 | 1 |
| 21 | 1-403143 | Decal, sulky warning | 1 |
| 22 | 103-1165 | Decal, ECS | 2 |
| 23Y | 1-513747 | Decal, battery | 1 |
| 24 | 1-303520 | Decal, trivantage | 1 |
| 25 | 1-413214 | Decal, tracking | 1 |
| 26 | 1-603845 | Decal, hyd drive release | 1 |
| 27 | 1-413206 | Decal, belt routing (36) | 1 |
| 28 | 1-323540 | Decal, roller mounting | 1 |
| 29 | 1-413327 | Decal, belt routing (48 & 52) | 1 |
| 30 | 1-403005 | Decal, danger (36) | 1 |
| | 1-403005 | Decal, danger (48 & 52) | 2 |
| ∀ | 103-0184 | Decal kit (Standard) | |
| | 103-1550 | Decal kit (ECS) | |

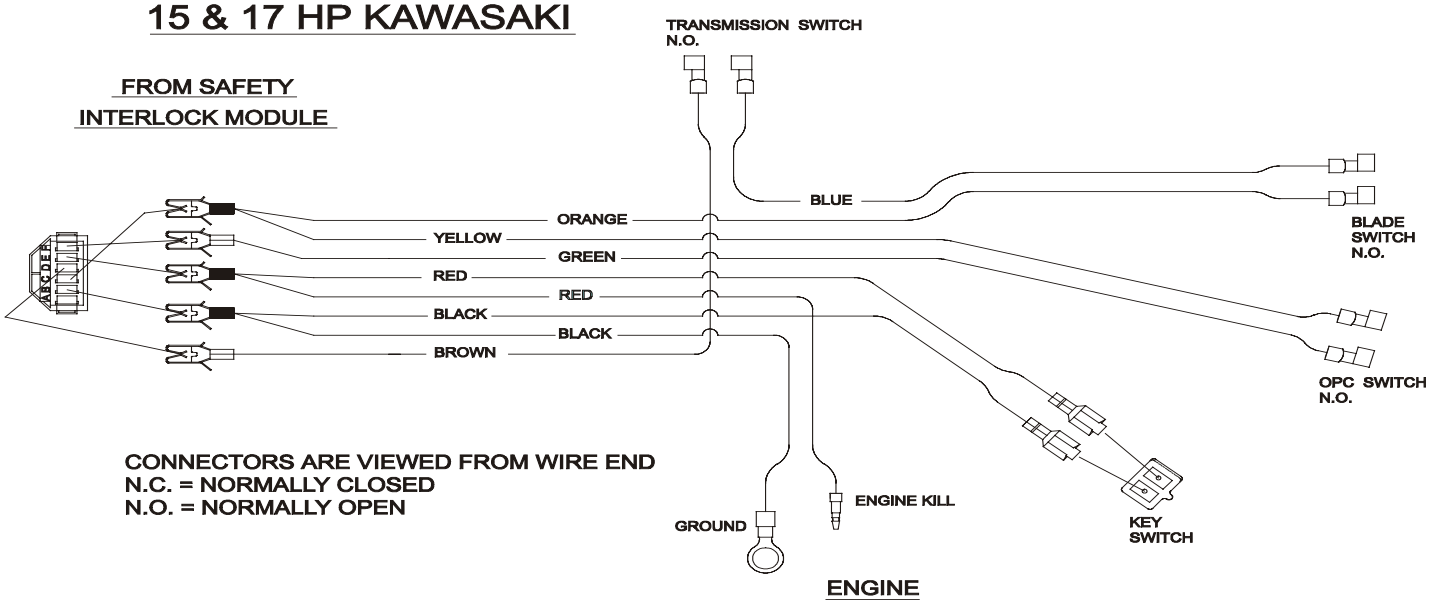
∀ Models with standard pistol grip handles only
Models with ECS handles only
| Manual start models only
Y Electric start models only

# DECALS


1
ROTATE CUTTER BLADES
STOP
DANGER
CAUTION
6 5 4 3 2 1 N
OFF
RUN
START
103-0172
2
ROTATE CUTTER BLADES
STOP
DANGER
CAUTION
6 5 4 3 2 1 N
OFF
RUN
START
103-0174
3
CAUTION
• LOOSE OR DAMAGED BLADE BOLT MAY ALLOW BLADE TO COME OUT FROM UNDER DECK AT HIGH SPEED.
• REPLACE BLADE BOLT AFTER STRIKING A FOREIGN OBJECT.
• TORQUE BLADE BOLT TO 115-120 FT-LBS(155-165N m)
SEE OPERATOR'S MANUAL
103-1077
4
eXmark TURF RACER
7
WARNING
DO NOT OPERATE WITHOUT DISCHARGE DEFLECTOR OR ENTIRE GRASS COLLECTION SYSTEM IN PLACE. DO NOT REMOVE GRASS CATCHER UNTIL BLADES HAVE STOPPED.
8
eXmark TURF RACER HP
9
RAISED
LOWERED
10
eXmark
11
WARNING
OPEN BELT DRIVE!
STOP ENGINE BEFORE REACHING UNDERNEATH.
12
ROTATE CUTTER BLADES
STOP
OFF
RUN
6 5 4 3 2 1 N
CAUTION
DANGER
13
CAUTION
MUFFLER AND SHIELD MAY EXCEED 150 F
14
CAUTION
ALLOW ENGINE TO COOL FOR 5 MINUTES BEFORE REFUELING
15
TENSION INDICATOR
CHECK HOURLY FOR THE FIRST 4 HRS.
CHECK DAILY THEREAFTER
ALIGN BOLT WITH TENSION INDICATOR at 1/8"
16
NEUTRAL LOCK
17
WARNING
DISENGAGE BLADE CLUTCH, SHUT OFF ENGINE AND REMOVE KEY BEFORE MAKING ADJUSTMENTS, SERVICING OR CLEANING DECK
CUTTING HEIGHT ADJUSTMENT
DECK SUPPORT PIN
CUTTING HEIGHT INCHES (MM)
1.5(38)
2.0(51)
2.5(64)
3.0(76)
3.5(90)
4.0(102)
4.5(114)
ANTI-SCALP ROLLER ADJUSTMENT
FOR NORMAL OPERATING CONDITIONS, PLACE ROLLERS IN POSITIONS SHOWN FOR 3/4" (19 mm) GROUND CLEARANCE.
CUTTING HEIGHT INCHES(mm)
2.0(51)
2.5(64)
3.0(76)
3.5(90)
FOR MAXIMUM FLOAT, ROLLERS MAY BE POSITIONED LOWER, BUT MUST MAINTAIN A MINIMUM OF 1/4" (6.4 mm) GROUND CLEARANCE. NEVER POSITION THE ROLLERS TO SUPPORT MOWER DECK.
18
COMMERCIAL 36
19
COMMERCIAL 48
20
COMMERCIAL 52
21
WARNING
Use Only Exmark Riding Attachments. Use of Other Riding Attachments Many Create a Hazardous Condition Resulting in Injury
22
ECS
ENHANCED CONTROL SYSTEM
23
WARNING
BATTERY CONTAINS SULFURIC ACID, AVOID CONTACT AND ALWAYS WEAR EYE, FACE, SKIN AND CLOTHING PROTECTION. EXPLOSIVE GASES CAN BE PRODUCED DURING BATTERY OPERATION. KEEP SPARKS, FLAMES OR SMOKING CIGARETTES AWAY FROM BATTERY. TO REPLENISH CELLS, USE DISTILLED WATER ONLY. DO NOT CHARGE OR USE BOOSTER CABLES OR ADJUST POST CONNECTIONS WITH BATTERY COVERS IN PLACE. IN CASE OF EYE CONTACT, FLUSH WITH WATER AND CALL A PHYSICIAN IMMEDIATELY. KEEP OUT OF REACH OF CHILDREN.
24
BAG MULCH DISCHARGE
TRIVANTAGE
25
TRACKING LOCK
26
DRIVE WHEEL RELEASE
DO NOT OVER-TIGHTEN
27
STATIONARY IDLER
413094
FRONT OF MOWER
28
ITEM NAME
1 ROLLER
2 BUSHING
3 SPRING WASHER
4 3/8-16 X 4 BOLT
5 MOUNT BRACKET
6 FLAT WASHER
7 WHIZLOCK NUT
* MUST BE GRADE 8
BOLT AND WASHERS MUST BE INSTALLED AS SHOWN IN DIAGRAM. TORQUE NUT TO 35-45 FT-LBS
29
STATIONARY IDLERS
413088 48"
413089 52"
FRONT OF MOWER
30
DANGER
KEEP HANDS and FEET AWAY

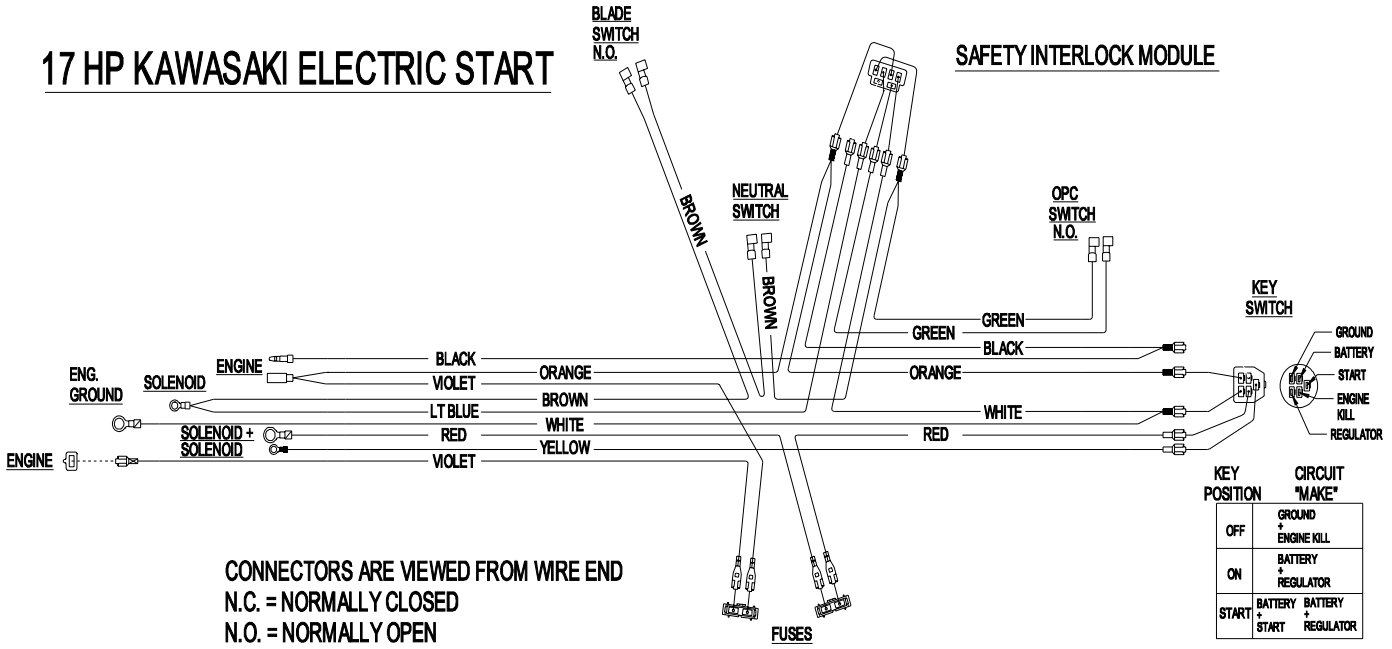
## WIRING DIAGRAMS

### 15 & 17 HP KAWASAKI




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### 17 HP KAWASAKI ELECTRIC START



# SERVICE RECORD

| Date | Description of Work Done | Service Done By |
|---|---|---|
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