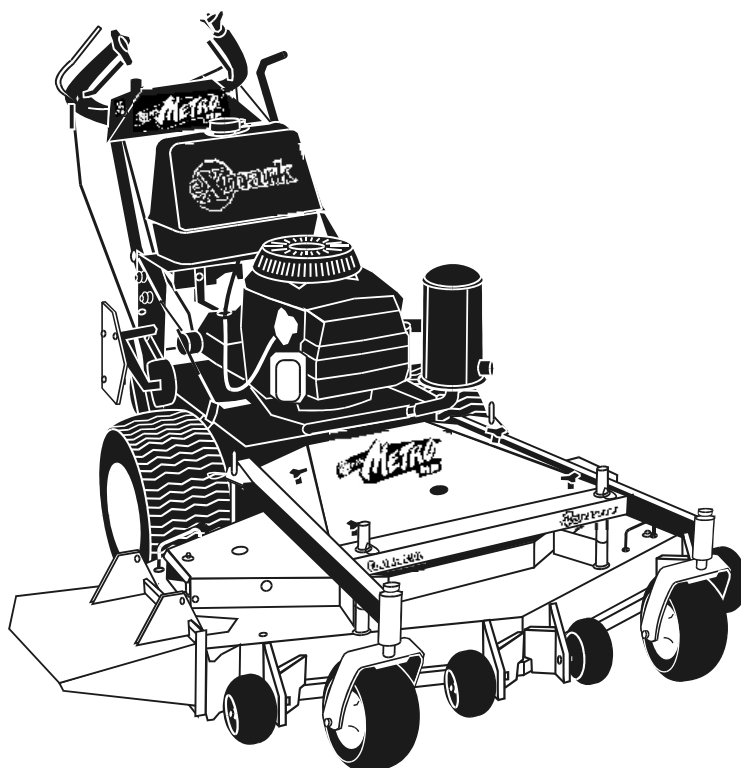


For Serial Nos.
370,000 & Higher



PARTS MANUAL

METRO[®] 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.

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

Model No. _____

Serial No. _____

Engine Model No. and Spec. No. (Code) _____

Engine Serial No. (E/No) _____

Date Purchased _____

Part No. 103-2996

EXMARK PARTS PLUS® PROGRAM

EFFECTIVE DATE: September 1, 1995

Program

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

How the Program Works

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



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

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

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



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

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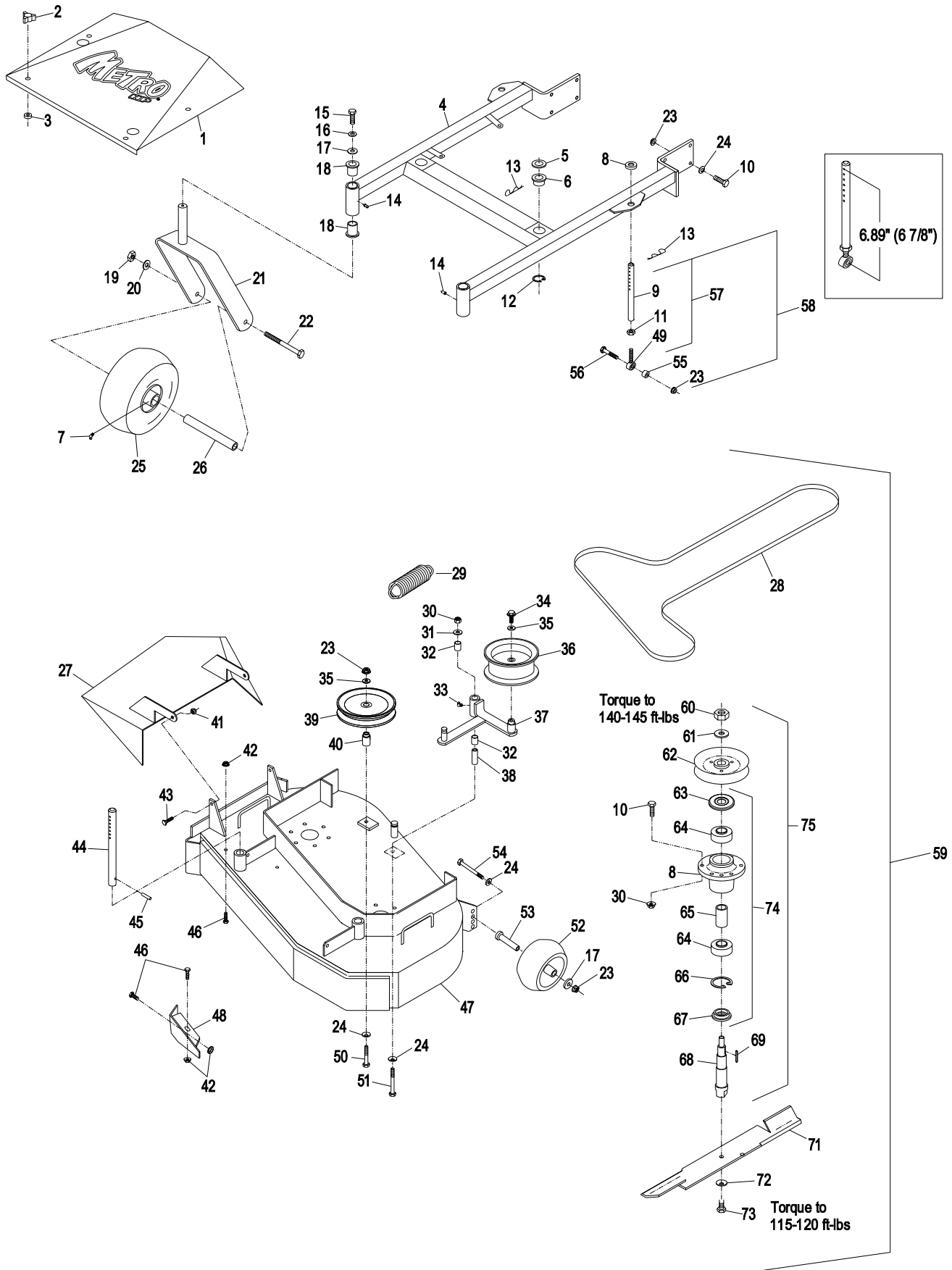
36" MOWER DECK

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	1-414435	Shield, belt w/decals	1	39	1-613098	Pulley, Idler	1
	1-413098-01	Shield, belt	1	40	1-413113	Bushing, Idler	1
2	1-323385	Knob, belt shield	4	41	3296-29	Nut, Nyloc 5/16-18	2
3	1-323417	Washer, belt shield	4	42	32128-20	Nut, Whizlock 5/16-18	3
4	1-414309	Support wld w/bushings&decals...	1	43	322-5	Screw, Hex Cap 5/16-18 x 1	2
	1-412108-01	Support weldment	1	44	1-603001	Rod, Deck Support	2
5	1-413425	Spacer, Front Deck Support	2	45	1-806332	Rollpin, 1/4x1 1/2	2
6	1-513336	Bushing, deck support	2	46	322-2	Screw, Hex Cap 5/16-18 x 5/8	3
7	302-61	Zerk, 45 degree 1/4-28	2	47	1-414383	Deck weldmt w/decals, discharge Baffle & support rods	1
8	1-323539	Spacer	2		1-412104-01	Deck weldmt	1
9	1-413525	Link, Deck Support	2	48	1-522480-01	Baffle, discharge	1
10	323-7	Screw, Hex Cap 3/8-16 x 1 1/4 ...	8	49	1-613204	Ball Joint	2
11	3219-3	Nut, Reg Hex 3/8-24	2	50	323-13	Screw, Hex Cap 3/8-16 x 2 3/4 ...	1
12	32120-33	Ring, Retaining	2	51	1-800805	Screw, Hex Cap 3/8-16 x 3 1/2 G8	1
13	1-806009	Hairpin, Cotter .177 #206	4	52⊕	1-603299	Roller, antiscalp	1
14	302-52	Zerk, Straight 1/8	2	53	1-603602	Bushing, roller	1
15	323-6	Screw, Hex Cap 3/8-16x1	2	54	98-5961	Screw, Hex Cap 3/8-16x4 Gr. 8..	1
16	3253-5	Washer, 3/8 heavy spring	2	55	1-603050	Bushing Spacer	2
17	1-373034	Washer, Swivel.	3	56	323-9	Screw, hex Cap 3/8-16x1 3/4	2
18	1-303514	Bearing, Flange	4	57▲	1-414521	Link, Assembly	2
19	3217-9	Nut, Reg Hex 1/2-13	2	58	1-611216	Kit, Link Assembly	2
20	3253-7	Washer, Lock Hlcl Spg 1/2 Reg ...	2	59	103-0320	Assy, cutting deck complete	1
21	1-522143-01	Caster weldment	2	60	3217-46	Nut, HH 3/4-16 heavy	2
22	325-20	Screw, Hex Cap 1/2-13x6	2	61	103-2802	Washer, disc spring 3/4	2
23	3290-357	Nut, Whizlock 3/8-16	12	62+	1-413424	Sheave w/ hub	2
24	98-5975	Washer, Disc Spring 3/8	11	63+	103-1330	Guard, bearing top	2
25	103-1224	Tire & Wheel Asm(semi-pneumatic)..	2	64+	103-2477	Bearing, ball	4
❖	1-513809	Roller Bearing	2	65	103-2534	Spacer, bearing	2
26■	103-2170	Bushing (semi-pneumatic)	4	66	32120-8	Ring, snap	2
	103-2169	Spacer (semi-pneumatic)	2	67	103-2535	Spacer, guard bottom	2
27	103-2431-01	Chute weldment, discharge	1	68+	103-2788	Shaft, spindle	2
28	1-413094	Belt, deck drive	1	69	1-807268	Key, machine	2
29	1-633151	Spring, extension	1	70	1-323532	Housing, spindle	2
30	3296-39	Nut, Nyloc 3/8-16	1	71	103-2528	Blade, 18.00 notched	2
31	3256-4	Washer, Flat Std 3/8	1	◆	103-2518	Blade, 18.00 mulching	2
32	1-513034	Pivot Bearing	2		103-2508	Blade, 18.00 low lift	2
33	302-40	Zerk, 90 degree 1/4-28	1		103-1578	Blade, 18.00 solid	2
34	3234-11	Bolt, Hex Whizlock 3/8-16x1	1	72	1-513208	Washer, disc spring 5/8	2
35	3256-24	Washer, Flat 3/8 SAE	2	73	103-1026	Screw, HH 5/8-11 x 1 G8	2
36	1-413099	Pulley, Idler	1	74	103-2547	Cutter Housing Assembly	2
37	1-412134-03	Arm, weldmt	1	75*	103-3207	Cutter Housing Complete	2
	1-414144	Arm, weldmt w/bushings	1	76□	103-2171	Kit, semi-pneumatic wheel replacement....	1
38	1-603384	Bushing, Idler Pivot	1				

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

- ◆ Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK363(36")
- ▲ Link assembly nominal length is 6.89" (or approximately 6 7/8") between center of ball joint and center of furthest hole. See diagram on next page. Initially adjust both links to this dimension, then adjust to where both links are equally supporting rear of mower deck by lengthening one link and shortening the other by an equal amount.
- ❖ Bushing for semi-pneumatic caster tires can be identified by a groove on the face.
- Front caster spacer for semi-pneumatic caster tires can be identified by yellow zinc plating.
- Kit 103-2171 used to install semi-pneumatic casters on machines originally fitted with pneumatic casters. Includes 103-1224 & 103-2169. Order 2 per machine.
- ⊕ Kit 103-3168 includes antiscalp roller, bushing, and mounting hardware.
- + Apply Mobil HTS grease (or a food-grade antisieze) between the spindles & bearings and spindles & sheaves and under top bearing guard. DO NOT use a copper or nickel based antisieze.
- * Complete cutting housings also include items 72 & 73

36" MOWER DECK



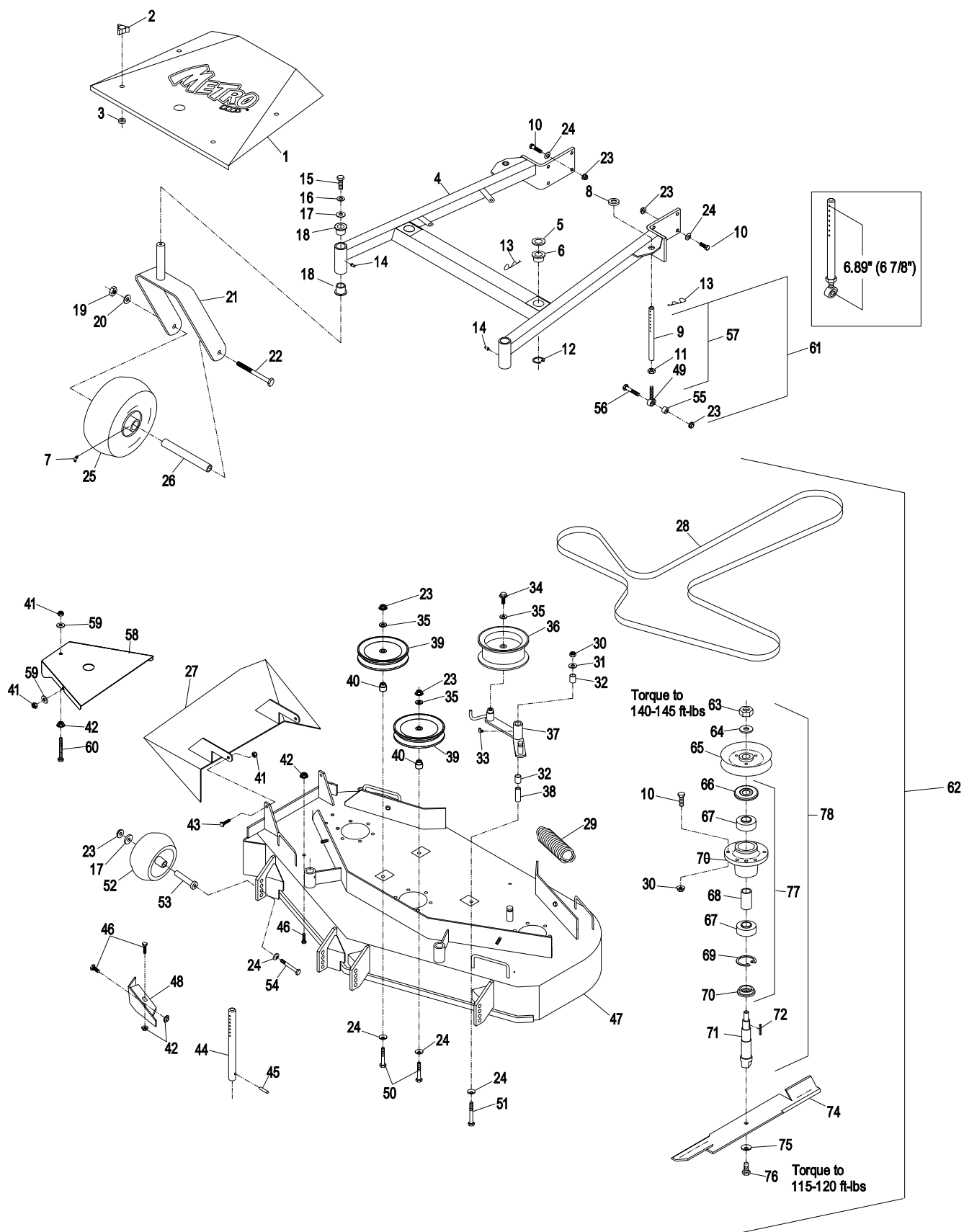
48" MOWER DECK

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	1-414436	Shield, belt w/decals	1	41	3296-29	Nut, Nyloc 5/16-18	8
	1-413101-01	Shield, belt	1	42	32128-20	Nut, Whizlock 5/16-18	5
2	1-323385	Knob, belt shield	4	43	322-5	Screw, Hex Cap 5/16-18 x 1	2
3	1-323417	Washer, belt cover	4	44	1-603001	Rod, Deck Support	2
4	1-414310	Support wld w/bushings & decals	1	45	1-806332	Rollpin, 1/4x1 1/2	2
	1-412110-01	Support weldmt	1	46	322-2	Screw, Hex Cap 5/16-18 x 5/8	3
5	1-413425	Spacer, Front Deck Support	2	47	1-414384	Deck weldmt w/decals, discharge	
6	1-513336	Bushing, deck support	2			Baffle & support rods	1
7	302-61	Zerk, 45 degree 1/4-28	2		1-412106-01	Deck weldmt	1
8	1-323539	Spacer	2	48	1-522480-01	Baffle, discharge	1
9	1-413525	Link, Deck Support	2	49	1-613204	Ball Joint	2
10	323-7	Screw, Hex Cap 3/8-16 x 1 1/4	26	50	323-13	Screw, Hex Cap 3/8-16 x 2 3/4	2
11	3219-3	Nut, Reg Hex 3/8-24	2	51	1-800805	Screw, Hex Cap 3/8-16 x 3 1/2 G8	1
12	32120-33	Ring, Retaining	2	52	1-603299	Roller, antiscalp	4
13	1-806009	Hairpin, Cotter .177 #206	4	53	1-603602	Bushing, roller	4
14	302-52	Zerk, Straight 1/8	2	54	98-5961	Screw, Hex Cap 3/8-16x4 Gr. 8	4
15	323-6	Screw, Hex Cap 3/8-16x1	2	55	1-603050	Bushing Spacer	2
16	3253-5	Washer, 3/8 heavy spring	2	56	323-9	Screw, hex Cap 3/8-16x1 3/4	2
17	1-373034	Washer, Swivel	6	57	1-414521	Link, Assembly	2
18	1-303514	Bearing, Flange	4	58	103-2970-01	Shield, Belt	2
19	3217-9	Nut, Reg Hex 1/2-13	2	59	3256-3	Washer, Flat Std 5/16	6
20	3253-7	Washer, Lock Hlcl Spg 1/2 Reg	2	60	1-800017	Bolt, Hex Tap 5/16-18 3 1/4	2
21	1-522143-01	Caster weldment	2	61	1-611216	Kit, Link Assembly	2
22	325-20	Screw, Hex Cap 1/2-13x6	2	62	103-0321	Assy, cutting deck complete	1
23	3290-357	Nut, Whizlock 3/8-16	16	63	3217-46	Nut, HH 3/4 heavy	3
24	98-5975	Washer, Disc Spring 3/8	15	64	103-2802	Washer, disc spring 3/4	3
25	103-1224	Tire & Wheel Asm (semi pneumatic)	2	65	1-413424	Sheave w/ hub	3
	1-513809	Roller Bearing	2	66	103-1330	Guard, bearing top	3
❖	103-2170	Bushing (semi-pneumatic)	4	67	103-2477	Bearing, ball	6
26	103-2169	Spacer (semi-pneumatic)	2	68	103-2534	Spacer, bearing	3
27	103-2431-01	Chute weldment, discharge	1	69	32120-8	Ring, snap	3
28	1-413093	Belt, deck drive	1	70	103-2535	Spacer, guard bottom	3
29	1-633151	Spring, extension	1	71	103-2788	Shaft, spindle	3
30	3296-39	Nut, Nyloc 3/8-16	30	72	1-807268	Key, machine	3
31	3256-4	Washer, Flat Std 3/8	1	73	1-323532	Housing, spindle	3
32	1-513034	Pivot Bearing	2	74	103-2572	Blade, 16.25 notched	3
33	302-40	Zerk, 90 degree 1/4-28	1	◆	103-2517	Blade, 16.25 mulching	3
34	3234-11	Bolt, Hex Whizlock 3/8-16x1	1		103-2507	Blade, 16.25 low lift	3
35	3256-24	Washer, Flat 3/8 SAE	3		103-1577	Blade, 16.25 solid	3
36	1-413099	Pulley, Idler	1	75	1-513208	Washer, disc spring 5/8	3
37	1-412394-03	Arm, weldmt	1	76	103-1026	Screw, HH 5/8-11 x 1 G8	3
	1-414398	Arm, weldmt w/bushings	1	77	103-2547	Cutter Housing Assembly	3
38	1-603384	Bushing, Idler Pivot	1	78*	103-3207	Cutter Housing Complete	3
39	1-613098	Pulley, Idler	2	79	103-2171	Kit, semi-pneumatic wheel replacement	1
40	1-413113	Bushing, Idler	2				

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

- ◆ Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK483(48")
- ▲ Link assembly nominal length is 6.89" (or approximately 6 7/8") between center of ball joint and center of furthest hole. See diagram on next page. Initially adjust both links to this dimension, then adjust to where both links are equally supporting rear of mower deck by lengthening one link and shortening the other by an equal amount.
- ❖ Bushing for semi-pneumatic caster tires can be identified by a groove on the face.
- Front caster spacer for semi-pneumatic caster tires can be identified by yellow zinc plating.
- Kit 103-2171 used to install semi-pneumatic casters on machines originally fitted with pneumatic casters. Includes 103-1224 & 103-2169. Order 2 per machine.
- ⊛ Kit 103-3168 includes antiscalp roller, bushing, and mounting hardware.
- ⊕ Apply Mobil HTS grease (or a food-grade antiseize) between the spindles & bearings and spindles & sheaves and under top bearing guard. DO NOT use a copper or nickel based antiseize.
- * Complete cutting housings also include items 75 & 76.

48" MOWER DECK



ENGINE DECK GROUP

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-1733	Grip Foam	1	43	1-603402	Spring, Extension	2
2	3296-6	Nut, Nyloc 3/8-24	1	44	1-323277	Idler, Wheel Drive	2
3	98-5975	Washer, Disc Spring 3/8	7	45	99-8664	Bolt, Hex Tap 3/8-16x3.....	2
4	1-323379	Washer, Shifter Lever	1	46	103-1618	Swivel, Short.....	2
5	1-323500	Transmission, Peerless	1	47	103-1700	Linkage, Brake.....	2
6	302-19	Zerk, Straight 1/4-28 5/32	6	48	1-322125	Swivel, weldmt Brake Linkage	2
7	1-324340	Coupling, w/guard & zerk.....	2	49	1-513959	Wingnut, Nyloc 5/16	4
8	3257-5	Key Woodruff #9 3/4x3/16.....	3	50	103-2941-01	Deck, weldment Engine.....	1
9▲	1-323502	Shaft,Trans. Output 9 spline	2	51	32151-47	Ring, Klip 3/8	2
10	103-1606	Lever, Shift w/grip	1	52	1-323283	Spacer, Shield	4
11	1-303282	Switch, Neutral Start	1	53	103-1703-03	Arm, weldment RH (shown) ..	1
12	9264964	Screw, Hex Tap 5/16-18x3/4....	4		103-1702-03	Arm, weldment LH.....	1
13	32128-20	Nut, whizlock 5/16-18	18	54	322-7	Screw,Hex Cap 5/16-18x1 1/2..	2
14	1-323387-03	Plate, Shifter	1	55	3296-29	Nut, Nyloc 5/16-18	4
15	3230-1	Bolt, Carriage 5/16-18x3/4	2	56	323-39	Screw, Hex Cap 3/8-16x5	4
16	1-323389-03	Leg, Shifter Plate	2	57	1-413359-01	Shield, Wheel Drive.....	2
17	1-323526	Ball, Stainless Steel	1	58	322-6	Screw,Hex Cap 5/16-18x1 1/4..	8
18	1-805005			59	1-323261	Brake Drum.....	2
	Washer, Lock Hlcl Spg 5/16		4	60	1-413331	Sheave, Wheel Drive w/offset	2
19	322-3	Screw, Hex Cap 5/16-18x3/4 ...	6	61	1-413332	Sheave, Wheel Drive	2
20	32151-62	Ring, Retaining	2	62	1-543511	Seal, Grease	2
21▲	1-323252	Bearing, Transmission Shaft....	2	63	1-543509	Cone, Bearing L44643	4
22	3296-42	Nut, Nyloc 1/4-20.....	4	64	1-543508	Cup, Bearing L44610	4
23	321-3	Screw, Hex Cap 1/4-20x5/8	4	65	1-413333	Wheel, Hub w/cups	2
24	1-323254	Flange, Output	2		1-633926	Stud, wheel (1 1/2").....	8
25◇	1-803310	Screw, Set 5/16-18x3/8	2	66	1-523157	Washer, Spacer	2
26	1-413355-03	Sleeve, Axle.....	1	67	1-806800	Pin, Cotter 9/64x1 1/2	2
27▲	1-413334-03	Sheave, Transmission Output .	2	68	1-809082	Nut, Slotted Hex.....	2
28	3290-357	Nut, Whizlock 3/8-16.....	20	69	1-543513	Cap, Grease.....	2
29	1-412376-03	Axle Weldment.....	2	70	1-413473	Wheel & Tire Assembly	2
30	1-543556	Spacer, Wheel	2		1-413474	Tire 16x6.50 – 8	2
31	1-413347	Bushing, Sleeve	4		1-603715	Wheel	2
32	103-1695	Lever,Brake RH w/bush.(shown)	1	71	242-50	Nut, Wheel 1/2-20	8
	103-1694	Lever,Brake LH w/bushings.....	1	72	1-413341	Belt, Wheel Drive Banded.....	2
33	1-413344	Bushing, Pivot.....	2	73	1-413510	Clip, Loom .50	2
34	3256-4	Washer, Flat Std 3/8	2	74	1-413511	Hanger, Drag Shield	2
35	323-10	Screw, Hex Cap 3/8-16x2	2	75	103-1701	Linkage, Drive	2
36	1-803051	Nut, Push .38	2	76	51-4220	Guard, coupler.....	1
37	323-9	Screw, Hex Cap 3/8-16x1 3/4	2	77	1-806003	Cotter, Hairpin .0585 #2	3
38	1-323262	Brake Band	2	78	1-412358	Scraper, weldment	2
39	1-323307	Pin, Clevis	2	79	1-413353	Pin, Threaded.....	2
40	323-6	Screw, Hex Cap 3/8-16x1	6	80	98-3259	Shield, Trailing	1
41	3218-3	Nut, Jam 3/8-16.....	2				
42	3296-39	Nut, Nyloc 3/8-16.....	6				

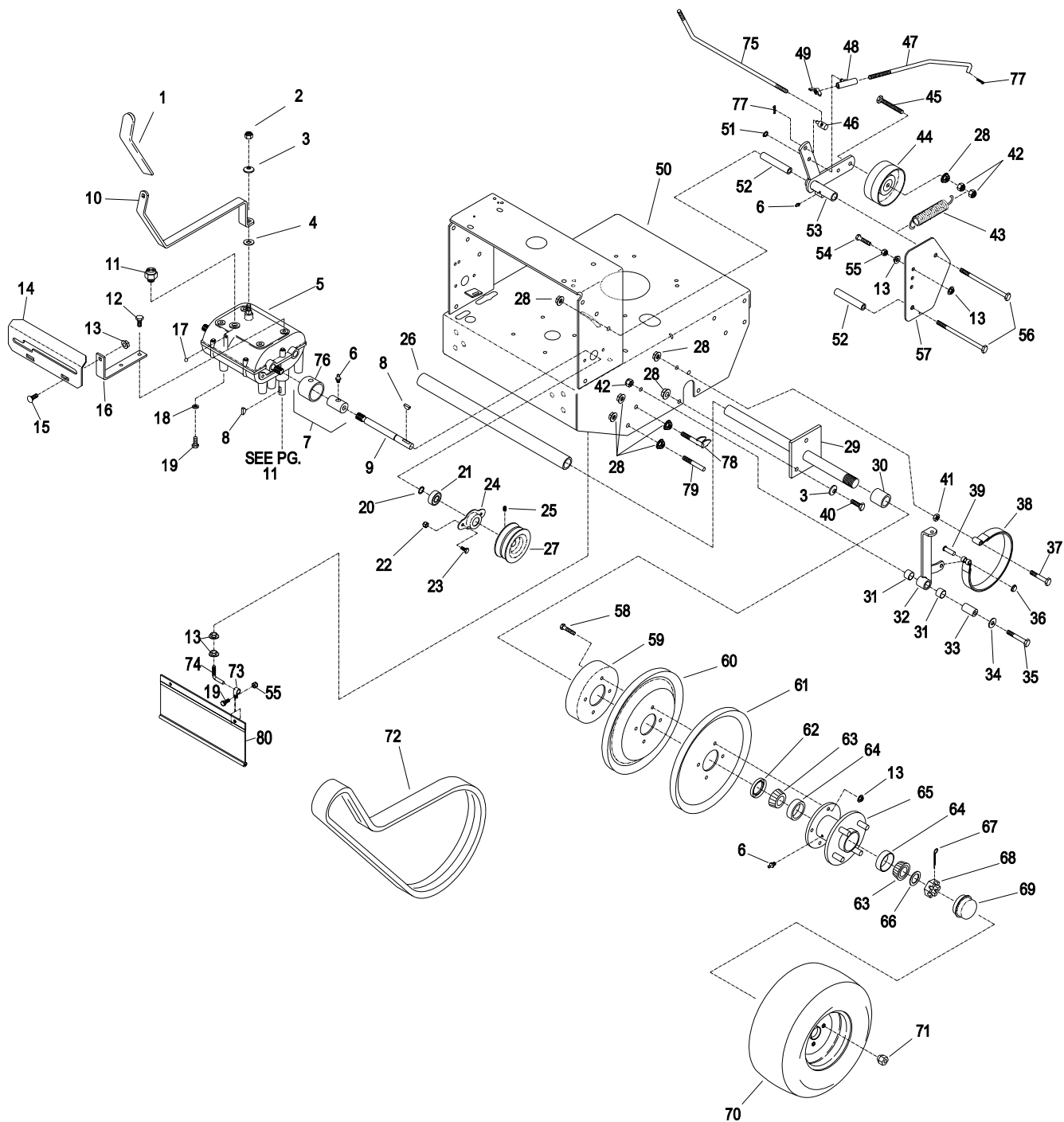
◇ Use Pro-lock (Nut type) Part No. 1-840022 (.5ml tube) on setscrew threads.

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

Exmark black touch up spray paint – Gloss Black

▲ Use antisieze compound between transmission output shafts & bearings and between transmission output shafts and sheaves.

ENGINE DECK GROUP



ENGINE DECK GROUP (CONT.)

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	323-11	Screw, 3/8-16 x 2-1/4	7	31	1-806003	Pin, Hair Cotter .0585 #2	1
2	3256-3	Washer, Flat Std 5/16	2	32	1-413282		
3	32128-20	Nut, Whizlock 5/16-18	11	33	1-414143	Link Pivot w/Bearing	1
4	1-413009-01	Plate, Guard	1	34	302-19	Zerk, Straight 1/4-28	1
5 *	1-800521	Screw, Hex Cap 3/8-24x1G8	1	35	1-603044	Bushing, Idler Pivot	1
6	98-5975	Washer, Disc Spring 3/8	2	36	3231-6	Bolt, Carr. SSN 3/8-16x2	1
7	1-373034	Washer, Swivel	2	37	322-6	Screw, Hex Cap 5/16-18x1 1/4	1
8	322-3	Screw, Hex Cap 5/16-18x3/4	1	38	321-6	Screw, Hex Cap 1/4-20x1	2
9 ▲	1-412031	Sheave, w/drum (36")	1	39	32128-33	Nut, Whizlock 1/4-20	4
▲	1-412028	Sheave, w/drum (48")	1	40	1-523498	Spring, Motion Control	1
10	1-807259	Key, Mach 1/4x1/4x1	1	41	1-303334	Washer, Disc Spring 5/16	5
11	1-412138-03	Pivot Pin weldment	1	42 *	3212-10	Screw, Hex cap 7/16-20x2 1/2	1
12	1-413062	Band, Brake Clutch	1	43	1-603610	Disc, Spring 7/16	2
13	3296-39	Nut, Nyloc 3/8-16	5	44	1-603609	Bushing, Clutch Keeper	1
14	1-413235	Washer, Spacer	1	45	1-413339		
15	1-413207	Pivot, Bearing	2	46	1-807264	Key, Machine 1/4 x 1/4 x 2 5/8	1
16	1-412417-03	Arm weldment, Clutch	1	47	1-412325	Guide, Belt weldment	1
	1-414418	Clutch Arm w/Bearings	1	48	1-413096	Belt, Blade Clutch	1
17	1481	Zerk, 1/4-28x45	1	49	1-323278	Sheave, Transmission	1
18 ▲	1-413111	Bearing, Clutch Shaft	2	50 *	3245-41	Screw, Set 1/4-20x3/8	2
19	32120-8	Ring, Snap	2	51	3256-5	Washer, Flat Std 7/16	2
20	1-413012	Spacer, Bearing Clutch	1	52	3256-24	Washer, Flat SAE 3/8	1
21	1-523157	Washer, Spacer	1	53	1-323285	Idler, Transmission Drive	1
22 ▲	1-412011	Sheave w/shaft	1	54	323-8	Screw, Hex Cap 3/8-16x1 1/2	2
23	1-413049-01	Plate, Clutch Pivot	1	55	103-1666	Sheave, Transmission Drive	1
24	3290-357	Nut, Whizlock 3/8-16	3	56	1-413340	Spacer, Crankshaft	1
25	3296-29	Nut, Nyloc 5/16-18	1	57	1-323280	Belt, Transmission Drive	1
26	1-213069	Washer, Strut	1	58	322-7	Screw, Hex Cap 5/16-18x1 1/2	4
27	1-513113	Spring, Belt Tension	1	59 ☼	103-1965	Valve, oil drain	1
28	1-543007	Spacer, Clutch Anchor	1	60	103-1966	Adapter, M20-2.5 / 3/8 NPT	1
29	3256-4	Washer, Flat Std 3/8	1	61 □	103-1964	Hose, 24" oil drain	1
30	1-513034	Pivot, Bearing	2				

▲ Use anti-seize compound in the following locations:

- ◆ Between the sheave and the engine crankshaft.
- ◆ Between the sheave w/shaft and the bearing bores.
- ◆ Between the sheave w/shaft and the sheave w/drum.
- ◆ Between the transmission shaft and the sheave.

* Use Pro-lock (Nut type) Part No. 1-840022 (.5ml tube) in the following locations:

- ◆ On setscrew locations.
- ◆ On sheave retaining bolt in engine crankshaft.
- ◆ On sheave retaining bolt on clutch arm.

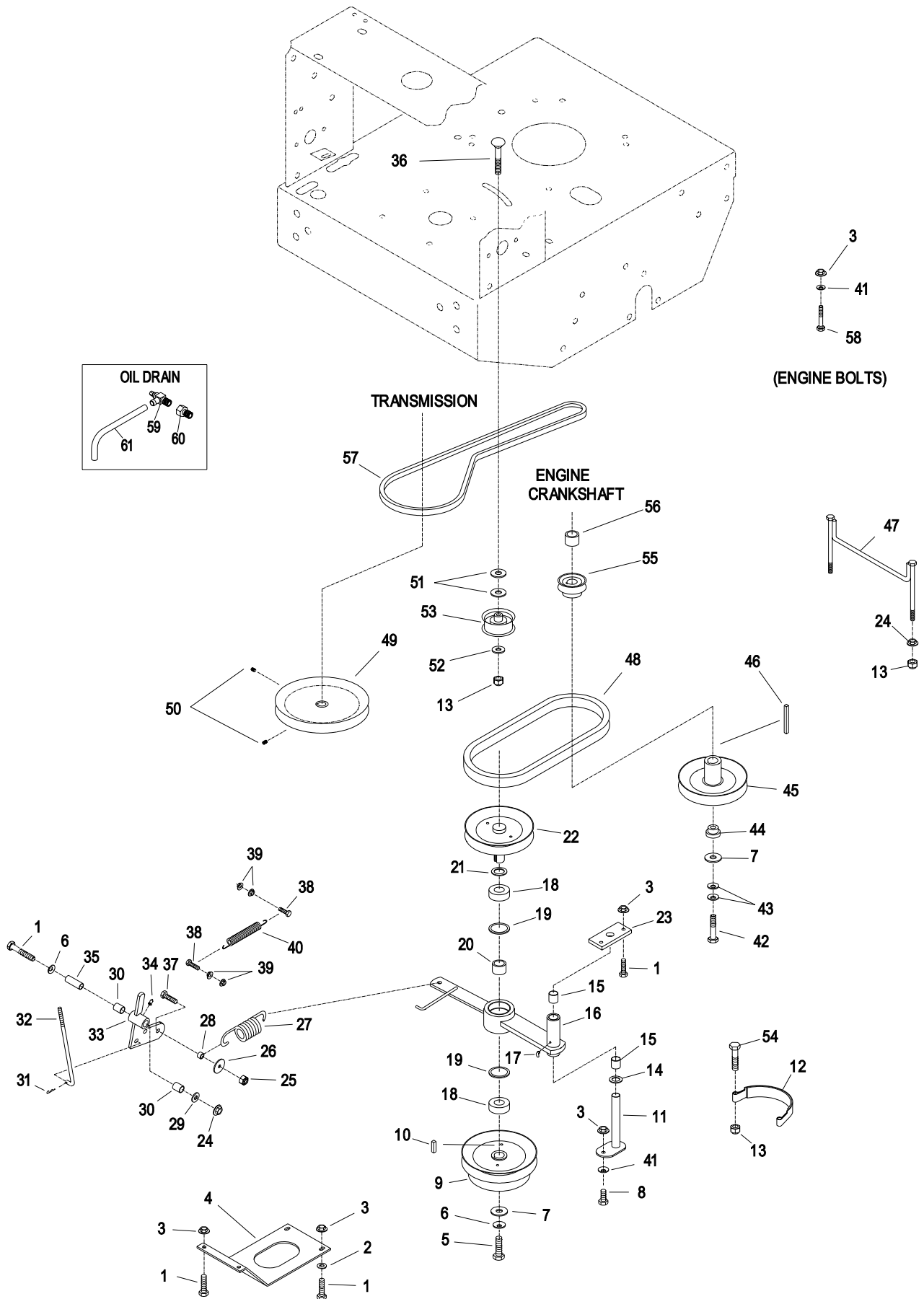
□ If engine deck has hole under fitting, hose is not required.

☼ Use Teflon Pipe Sealant or equivalent between oil drain valve and adapter.

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

Exmark black touch up spray paint – Gloss black

ENGINE DECK GROUP (CONT.)



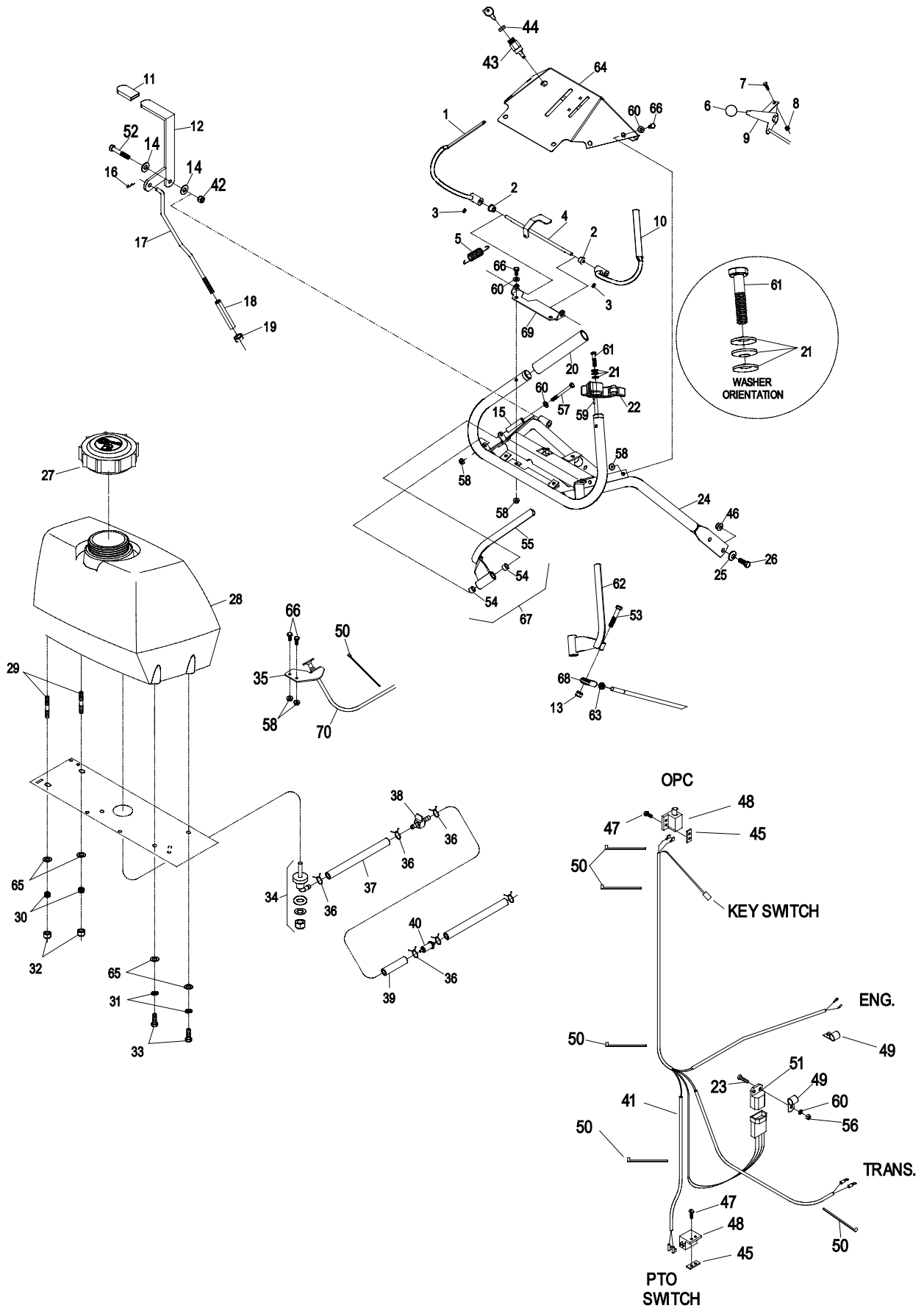
ECS UPPER HANDLES and CONTROLS

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1▽	103-1566-03	Lever, weldment OPC LH	1	38	1-603770	Valve, Fuel.....	1
2	1-303365	Bushing, Nylon	2	39	1-303022	Hose, Fuel line 8.5"	1
3♦	1-803322	Screw, Set .312-24x.312	2	40	Kawasaki PN 41019-1055 w/6" fuel line	1	
4	103-0769-03	Rod weldment, OPC	1	41♣	103-1710	Harness, Wiring	1
5	1-303363	Spring, Actuator.....	1	42	3296-39	Nut, Nyloc 3/8-16.....	1
6	1-513592	Knob, Ball Red.....	1	43	1-403121	Switch, On/Off	1
7	1-807513	Bolt, Carr. #10-24x1/2 G2	2		1-603511	Key, ignition	1
8	3296-2	Nut, Nyloc #10-24.....	2		103-2106	Key, Exmark logo	1
9	1-633696	Cable, Throttle Control	1	44	103-0498	Nut, Ignition Switch.....	1
10▽	103-1567-03	Lever, weldment OPC RH.....	1	45	1-633181	Plate, Tapped	2
11	1-303020	Grip, Lever.....	1	46	3290-357	Nut, Whizlock 3/8-16	4
12	1-414234	Clutch Lever w/Grip.....	1	47	3290-500	Scrw,Mach CRPH 10-24x5/8	
				48	1-513051	Switch, Neutral Lockout.....	2
13	3296-29	Nut, Nyloc 5/16-18.....	2	49	1-323229	Clip, 3/8 Loom	2
14	3256-24	Washer, Flat SAE 3/8.....	2	50	1-303287	Tie, Plastic	5
15	103-0027	Spacer	2	51	1-323430	Module, Wiring Harness	1
16	1-806003	Pin, Hair Cotter .0585 #2.....	1	52	323-11	Screw,3/8-16 x 2 1/4	1
17	103-1149	Linkage, Upper	1	53	322-9	Screw,5/16-18 x 1 3/4.....	2
18	1-413279	Turnbuckle, 3/8-16 SS.....	1	54	1-413152	Bearing	4
19	3217-7	Nut, Reg Hex 3/8-16.....	1	55	103-2466-03	Lever,drive LH	1
20	103-0815	Grip, Handle	2	56	321-4	Screw, Hex Cap 1/4-20x3/5	1
21	1-303435	Washer, Disc Spring 1/4.....	6	57	321-14	Screw,1/4-20 x 2 3/4	2
22	103-1631	Latch, thumb LH	1	58	32128-33	Nut,1/4-20 whizlock	12
	103-1630	Latch, thumb RH (shown).....	1	59	103-0464	Pin,1/8 x 1/2 spring	2
23	3296-42	Nut, Nyloc 1/4-20.....	3	60	3256-22	Washer,1/4 SAE flat	11
24	103-0770-03	Handle weldment	1	61♦	103-0235	Screw,1/4-20 x 1 1/8 w/nylon	
25	98-5975			2			
	Washer, Disc Spring 3/8		4	62	103-2465-03	Lever,drive RH	1
26	323-6	Screw, Hex Cap 3/8-16x2 1/2 ..	4	63	3220-3	Nut,3/8-24 jam	4
27	103-2107	Cap, Fuel Tank.....	1	64	103-2765	Console w/ decals	1
28	103-2893	Asm,Fuel Tank	1		103-0546-03	Wld,upper handle console	1
29▽	1-633023	Stud	2	65	3256-23	Washer,5/16 SAE flat	4
30	1-633349	Spring, Fuel tank	2	66	321-3	Screw,1/4-20 x 5/8	10
31	1-805005	Wshr,Lock Hlcl Spg 5/16 Hvy	2	67	103-2513	Asm,drive lever RH	1
32	3296-47						
	Nut, Nyloc 5/16-18		2		103-2514	Asm,drive lever LH	1
33	322-3	Screw, Hex Cap 5/16-18x3/4 ..	2	68	103-2463	Joint,.31 ball end	2
34♦	103-2605	Fitting,Fuel Blkhd w/screen ...	1	69	103-0489-03	Bracket,opc axle	1
35	103-1797-01	Bracket,choke cable	1	70	103-1796	Cable,choke push/pull	1
36	1-303077	Clamp, Fuel line	4				
37	1-603955	Hose, Fuel line 6"	1				

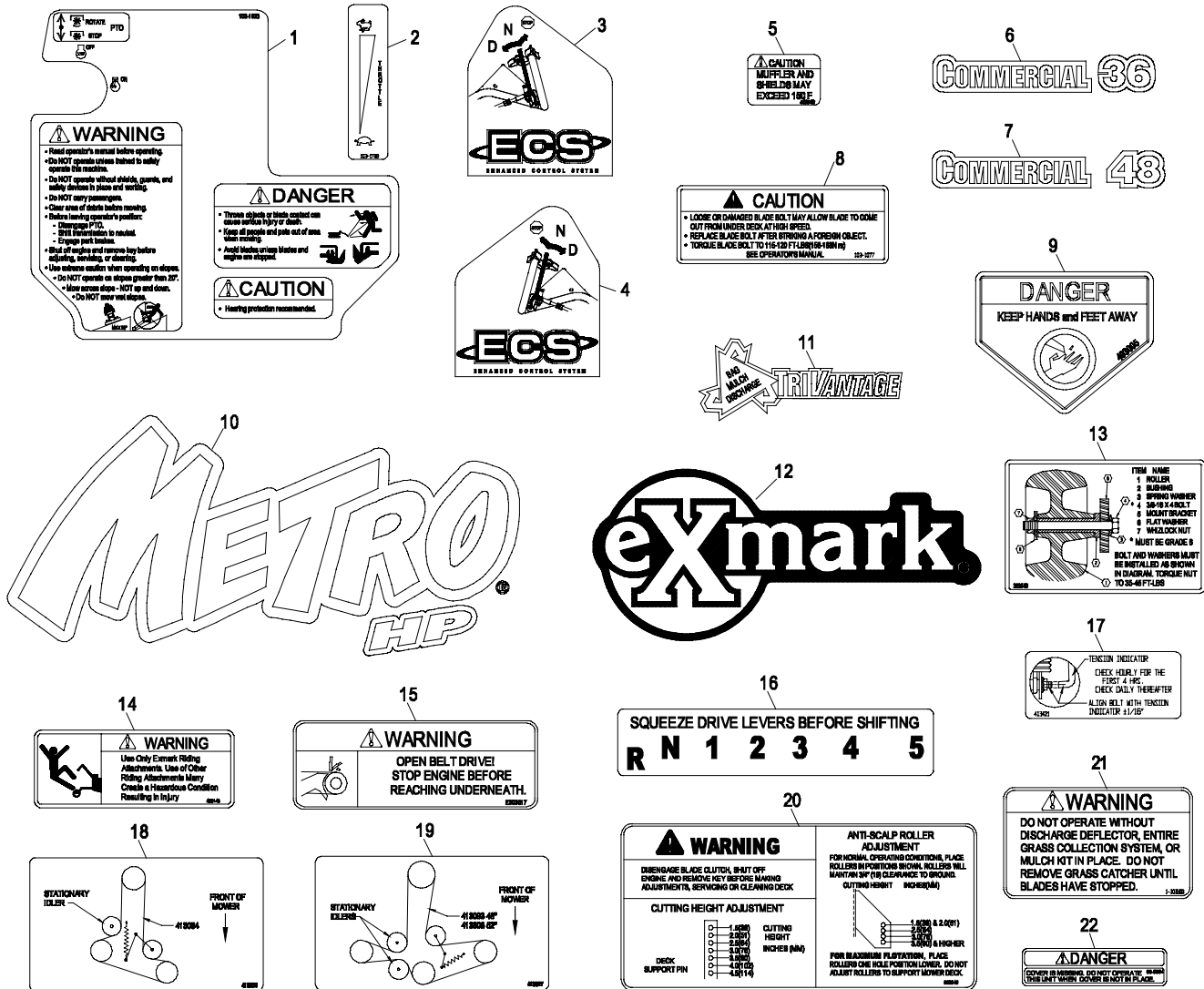
Exmark black touch up spray paint - Gloss black

- ♦ Use Pro-Lock nut type, Part no. 1-840022 (.5cc tube) on setscrew threads, on thumb latch screws, and on fuel fitting.
- ▽ Use Pro-Lock retaining type, Part no. 1-840023 (.5cc tube) on inside of bore of OPC hub and on fuel tank studs, where studs are inserted into tank.
- ♣ Use dielectric grease on all electrical connectors.

ECS UPPER HANDLES and CONTROLS



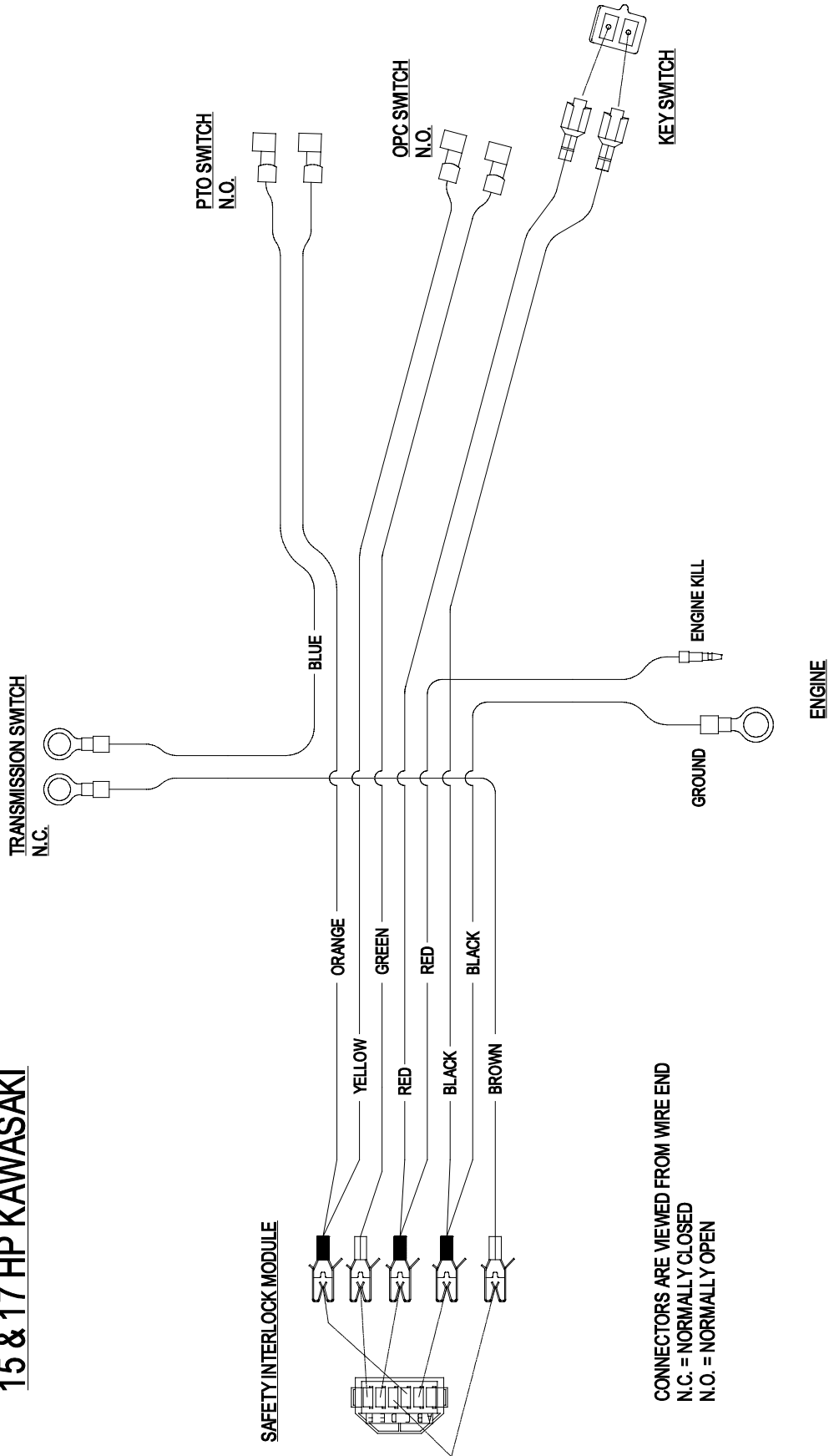
DECAL GROUP



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-1623	Decal, Console	1	13	1-323540	Decal, Roller Mounting.....	1
2	103-1798	Decal, Throttle	1	14	1-403143	Decal, Sully Warning.....	1
3	103-2244	Decal, LH ECS Instruction ...	1	15	1-303517	Decal, Belt Drive	1
4	103-2245	Decal, RH ECS Instruction...	1	16	1-303518	Decal, Shifter	1
5	1-513746	Decal, Muffler	2	17	1-413421	Decal, Indicator	1
6	1-323411	Decal, Commercial 36	1	18	1-413206	Decal, Belt Routing(36")	1
7	1-403131	Decal, Commercial 48	1	19	1-413327	Decal, Belt Routing(48")	1
8	103-1077	Decal, Bolt Torque.....	1	20	1-553049	Decal, Mower deck	1
9	1-403005	Decal, Danger	2	21	1-303508	Decal, Discharge Warning	1
10	103-2921	Decal, MHP Model	1	22	98-5954	Decal, Missing cover (36")....	1
11	1-303520	Decal, Trivantage	1		98-5954	Decal, Missing cover (48")....	3
12	103-2882	Decal, Exmark Logo.....	1		1-414395	Decal Kit.....	1

15 & 17 HP KAWASAKI

WIRING DIAGRAM



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