For Serial Nos. 370,000 & 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.

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 _____

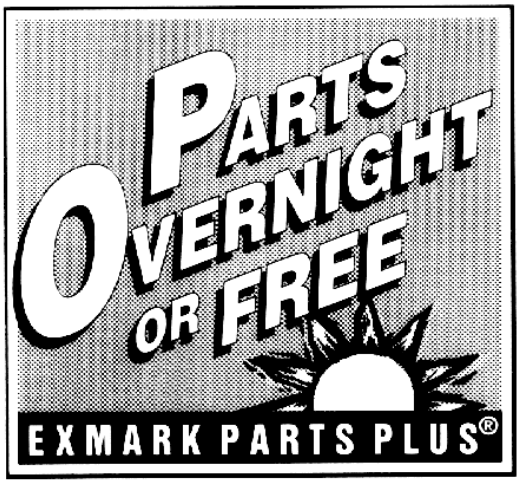
Part No. 103-2926 Rev A.

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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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	302-61	Zerk, 45 degree 1/4-28	2
8	1-323539	Spacer	2
9	1-413525	Link, Deck Support	2
10	323-7	Screw, Hex Cap 3/8-16 x 1 1/4	8
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 1/2-13	2
20	3253-7	Washer, Lock Hlcl Spg 1/2 Reg	2
21	1-522143-01	Caster weldment	2
22	325-20	Screw, Hex Cap 1/2-13x6	2
23	3290-357	Nut, Whizlock 3/8-16	12
24	98-5975	Washer, Disc Spring 3/8	11
25	103-1224	Tire & Wheel Asm(semi-pneumatic)	2
	1-513809	Roller Bearing	2
❖	103-2170	Bushing (semi-pneumatic)	4
26■	103-2169	Spacer (semi-pneumatic)	2
27	103-2431-01	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	1
31	3256-4	Washer, Flat Std 3/8	1
32	1-513034	Pivot Bearing	2
33	302-40	Zerk, 90 degree 1/4-28	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 x 1	2
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 5/8	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✪	1-603299	Roller, antiscalp	1
53	1-603602	Bushing, roller	1
54	98-5961	Screw, Hex Cap 3/8-16x4 Gr. 8	1
55	1-603050	Bushing Spacer	2
56	323-9	Screw, hex Cap 3/8-16x1 3/4	2
57▲	1-414521	Link, Assembly	2
58	1-611216	Kit, Link Assembly	2
59	103-0320	Assy, cutting deck complete	1
60	3217-46	Nut, HH ¾-16 heavy	2
61	103-2802	Washer, disc spring 3/4	2
62✚	1-413424	Sheave w/ hub	2
63✚	103-1330	Guard, bearing top	2
64✚	103-2477	Bearing, ball	4
65	103-2534	Spacer, bearing	2
66	32120-8	Ring, snap	2
67	103-2535	Spacer, guard bottom	2
68✚	103-2788	Shaft, spindle	2
69	1-807268	Key, machine	2
70	1-323532	Housing, spindle	2
71	103-2528	Blade, 18.00 notched	2
◆	103-2518	Blade, 18.00 mulching	2
	103-2508	Blade, 18.00 low lift	2
	103-1578	Blade, 18.00 solid	2
72	1-513208	Washer, disc spring 5/8	2
73	103-1026	Screw, HH 5/8-11 x 1 G8	2
74	103-2547	Cutter Housing Assembly	2
75✲	103-3207	Cutter Housing Complete	2
76□	103-2171	Kit,semi-pneumatic wheel replacement	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.

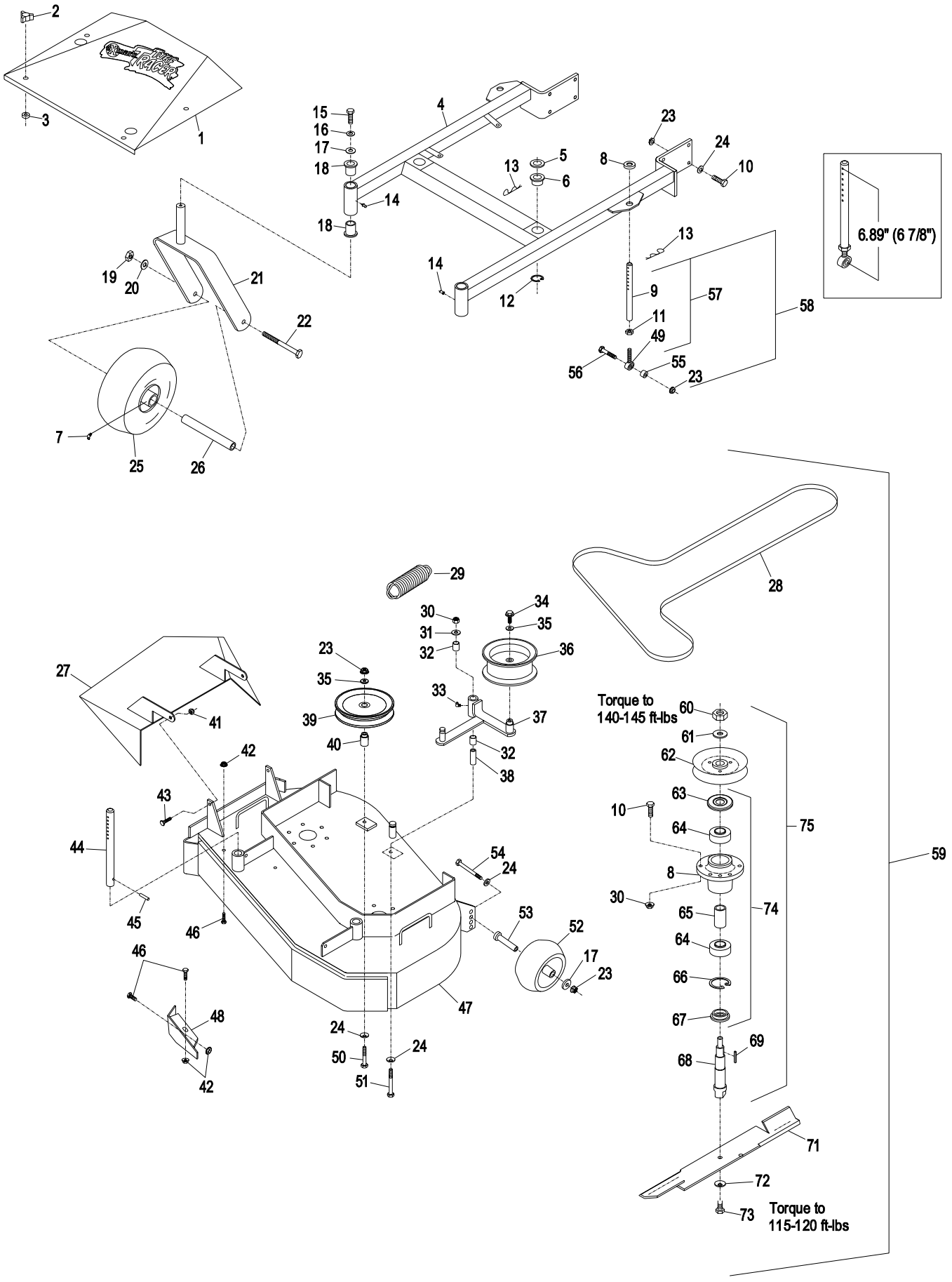
□ Kit 103-2171 used to install semi-pneumatic casters on machines originally fitted with pneumatic casters. Includes 103-1224 & 103-2169. Order 2 per machine.

✪ 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.
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	302-61	Zerk, 45 degree ¼-28	2
8	1-323539	Spacer	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
	1-513809	Roller Bearing	2
❖	103-2170	Bushing (semi-pneumatic)	4
26■	103-2169	Spacer (semi-pneumatic)	2
27	103-2431-01	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	30
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	3
36	1-413099	Pulley, Idler	1
37	1-412394-03	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 x 1	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✪	1-603299	Roller, antiscalp	4
53	1-603602	Bushing, roller	4
54	98-5961	Screw, Hex Cap 3/8-16x4 Gr. 8	4
55	1-603050	Bushing Spacer	2
56	323-9	Screw, hex Cap 3/8-16x1 3/4	2
57▲	1-414521	Link, Assembly	2
58	103-2970-01	Shield, Belt	2
59	3256-3	Washer, Flat Std 5/16	6
60	1-800017	Bolt, Hex Tap 5/16-18 3 1/4	2
61	1-611216	Kit, Link Assembly	2
62	103-0321	Assy, cutting deck complete	1
63	3217-46	Nut, HH ¾ heavy	3
64	103-2802	Washer, disc spring 3/4	3
65✚	1-413424	Sheave w/ hub	3
66✚	103-1330	Guard, bearing top	3
67✚	103-2477	Bearing, ball	6
68	103-2534	Spacer, bearing	3
69	32120-8	Ring, snap	3
70	103-2535	Spacer, guard bottom	3
71✚	103-2788	Shaft, spindle	3
72	1-807268	Key, machine	3
73	1-323532	Housing, spindle	3
74	103-2572	Blade, 16.25 notched	3
◆	103-2517	Blade, 16.25 mulching	3
	103-2507	Blade, 16.25 low lift	3
	103-1577	Blade, 16.25 solid	3
75	1-513208	Washer, disc spring 5/8	3
76	103-1026	Screw, HH 5/8-11 x 1 G8	3
77	103-2547	Cutter Housing Assembly	3
78✻	103-3207	Cutter Housing Complete	3
79□	103-2171	Kit,semi-pneumatic wheel replacement	1

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.

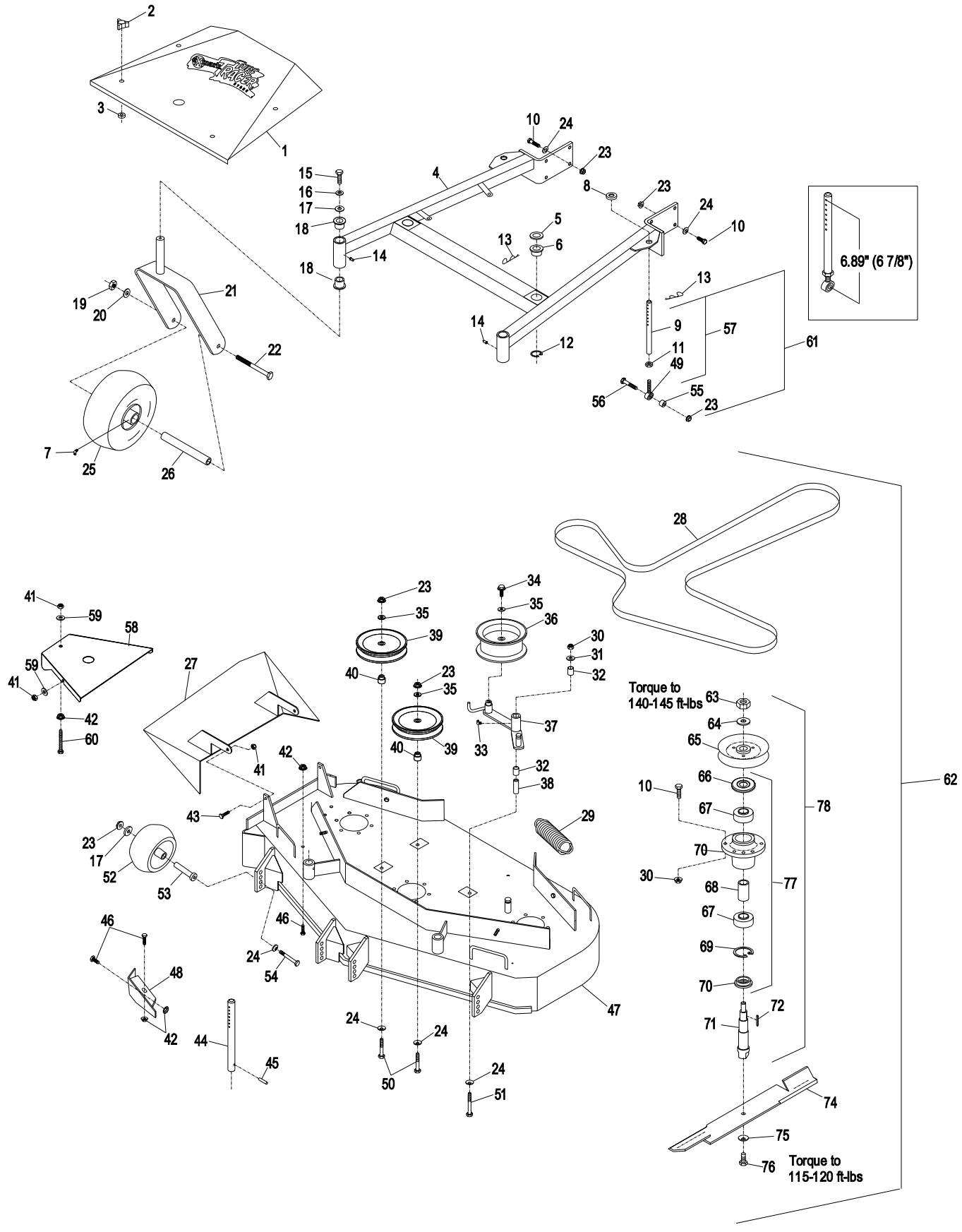
□ Kit 103-2171 used to install semi-pneumatic casters on machines originally fitted with pneumatic casters. Includes 103-1224 & 103-2169. Order 2 per machine.

✪ Kit 103-3168 includes antiscalp roller, bushing, and mounting hardware.

✚ Apply Mobil HTS grease (or a food-grade 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 75 & 76.

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	2
9	1-413525	Link, Deck Support	2
10	323-7	Screw, Hex Cap 3/8-16 x 1 1/4	8
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
	1-513809	Roller Bearing	2
❖	103-2170	Bushing (semi-pneumatic)	4
26■	103-2169	Spacer (semi-pneumatic)	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	9
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 x 1	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	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✪	1-603299	Roller, antiscalp	6
53	1-603602	Bushing, roller	6
54	98-5961	Screw, Hex Cap 3/8-16x4 Gr. 8	6
55	1-603050	Bushing Spacer	2
56	323-9	Screw, hex Cap 3/8-16x1 3/4	2
57▲	1-414521	Link, Assembly	2
58	103-2971-01	Shield, Belt	2
59	103-0322	Assembly, cutting deck complete	1
60	302-61	Zerk, 45 degree ¼-28	2
61	3217-46	Nut, HH ¾-16 heavy	3
62	103-2802	Washer, disc spring 3/4	3
63✚	1-413424	Sheave w/ hub	3
64✚	103-1330	Guard, bearing top	3
65✚	103-2477	Bearing, ball	6
66	103-2534	Spacer, bearing	3
67	32120-8	Ring, snap	3
68	103-2535	Spacer, guard bottom	3
69✚	103-2788	Shaft, spindle	3
70	1-807268	Key, machine	3
71	1-323532	Housing, spindle	3
72	103-2528	Blade, 18.00 notched	3
◆	103-2518	Blade, 18.00 mulching	3
	103-2508	Blade, 18.00 low lift	3
	103-1578	Blade, 18.00 solid	3
73	1-513208	Washer, disc spring 5/8	3
74	103-1026	Screw, HH 5/8-11 x 1 G8	3
75	103-2547	Cutter Housing Assembly	3
76*	103-3207	Cutter Housing Complete	3
77□	103-2171	Kit,semi-pneumatic wheel replacement	1

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

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

▲ 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.

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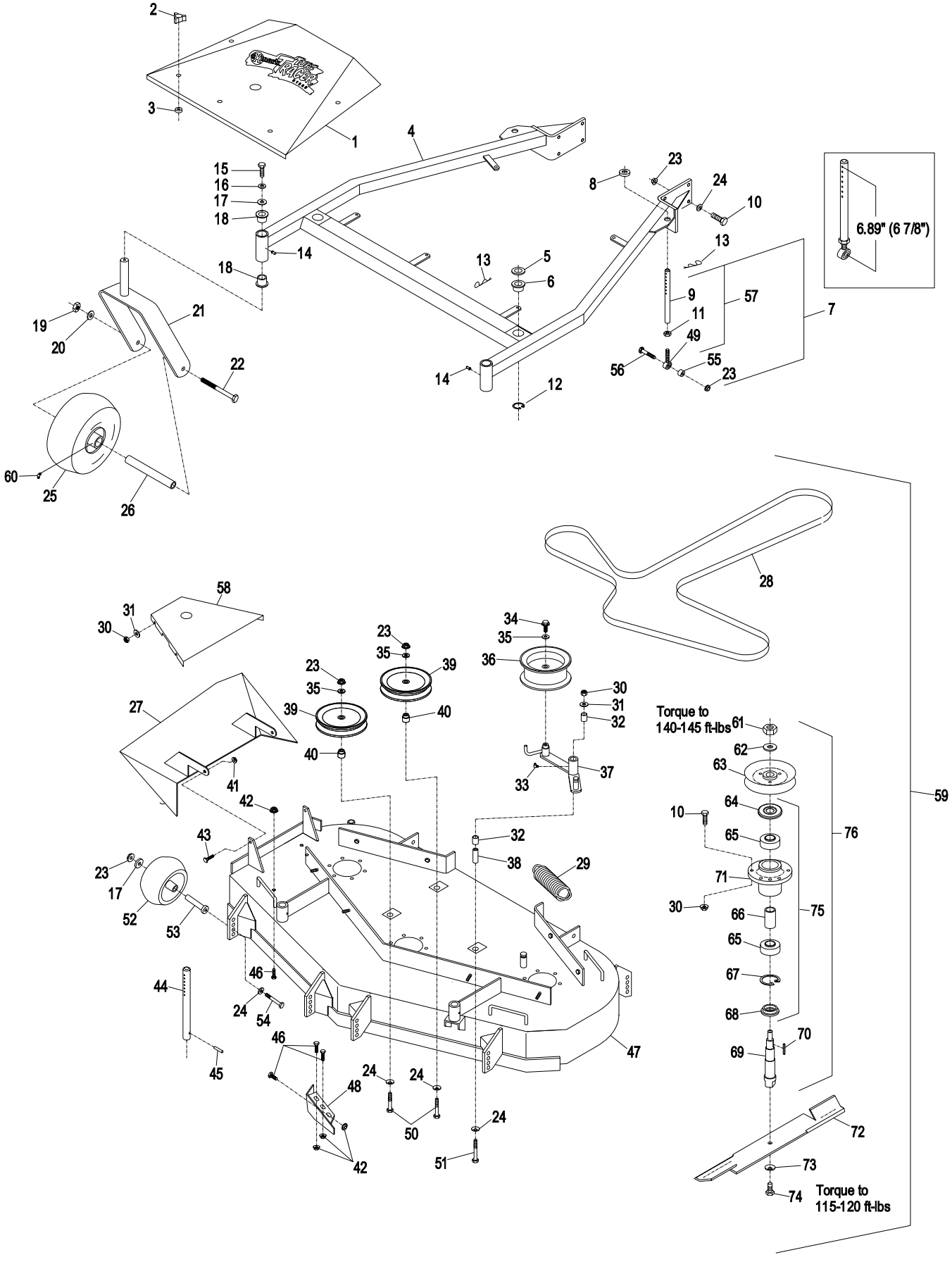
□ Kit 103-2171 used to install semi-pneumatic casters on machines originally fitted with pneumatic casters. Includes 103-1224 & 103-2169. Order 2 per machine.

✪ 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 73 & 74.

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
♠	98-5975	Washer, 3/8 disc spring	13
3	1-603044	Bushing	2
4	1-513034	Bearing, pivot	4
5	302-19	Zerk, straight	1
6	1-412285-03	Bellcrank weldment	1
	1-414143	Bellcrank weldment 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 nyloc	3
15	3256-4	Washer, 3/8 std flat	2
16	3290-357	Nut, 3/8-16 whizlock	19
17	1-413282	Linkage	1
18	1-806003	Hairpin cotter	1
19	103-2886-01	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 nyloc	5
30★	323-6	Screw, 3/8-16 x 1	8
♠	323-6	Screw, 3/8-16 x 1	10
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 (36”)	2
	1-413474	Tire 16 x 6.50-8 (36”)	2
	1-613263	Wheel & tire assy (48” & 52”)	2
	1-613264	Tire 16 x 7.50-8 (48” & 52”)	2
	1-603715	Wheel	2
35	242-50	Nut, wheel 1/2-20	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	2
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 nyloc	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	1
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	103-2056	Shield, trailing	1
81	1-413510	Clip, loom - .50	2
82	1-413511	Hanger, drag shield	2
83♠	1-543891	Battery, cover	1
84♠	1-543792	Wingnut, ¼-20 nyloc	2
85♠	1-413541	Trim-lok	1
86♠	103-1098	Stand w/ trim-lok	1
87♠	1-543882	Bolt, hold down	2
88	323-7	Screw, 3/8-16 x 1 1/4	1

▽ 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.

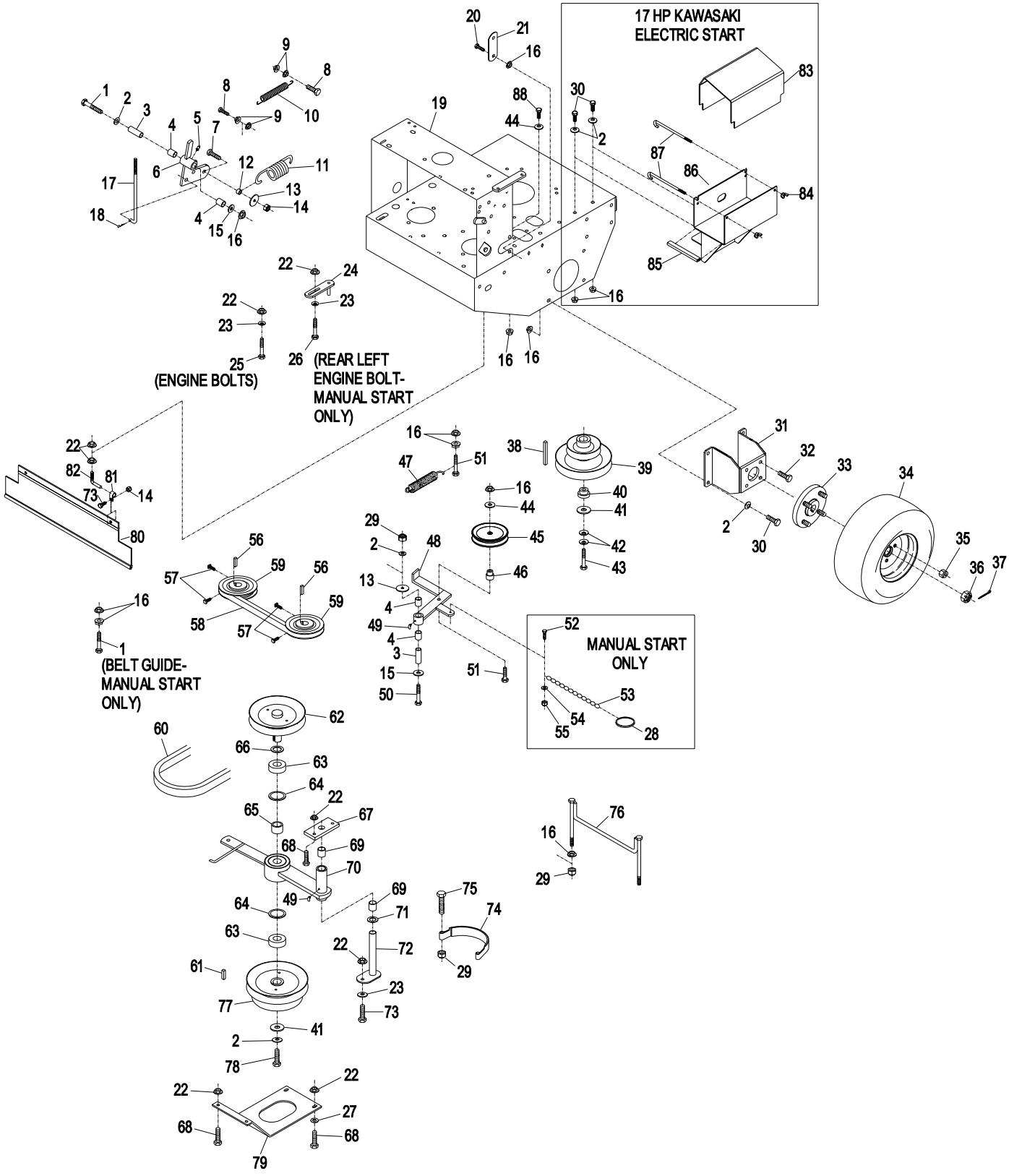
Exmark red touch up spray paint - P/N 1-850337

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

★ Manual start only

♠ Electric 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	20
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	6
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	15
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	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	5
23	3220-2	Nut, 5/16-24 jam	2
24	1-413350	Rod, control	2
25	1-412203	Crank weldmt	1
30	1-413489	Linkage, lower brake	1
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
26	1-633131	Yoke, brake linkage	1
31♦	1-803022	Setscrew, 5/16-18x5/8	2
32	103-1190-01	Arm weldmt, LH	1
33	103-1191-01	Arm weldmt, RH	1
34	3218-3	Nut, jam 3/8-16	1
35	322-6	Screw, 5/16-18 x 1-1/4	3
36	3272-5	Cotter pin, 3/32 x 1/2	2
37	1-603903	Spacer	1
38	1-403180	Screw, HH 5/16-18x1 3/8	2
39♦	1-809056	Bolt,.375x.375 hx skt hd	2
40	3256-24	Washer, 3/8 SAE flat	4
41	1-413151	Knob	1
42	1-323161	Spring	1
43	103-2085-03	Brake weldmt, 36"	1
	103-2004-03	Brake weldmt, 48/52"	1
44□	103-1965	Valve, oil drain	1
45	103-1966	Adapter, M20-2.5/ 3/8 NPT	1
46	1-413492	Linkage, upper brake	1
47 ●	323-23	Screw,3/8-16 x 4 1/2	1
✧	323-16	Screw,3/8-16 x 4	1
48 ●	3296-39	Nut,3/8-16 nylock	2
✧	3296-39	Nut,3/8-16 nylock	1
49	103-1148	Rod,drive lever	2
50	323-8	Screw,3/8-16 x 1 1/2	2
51	103-1167	Joint,.375 LH ball end	2
52	103-1166	Tube,pump link spacer	2
53	3220-16	Nut,jam 3/8-24 LH	2
54●	323-16	Screw,3/8-16x4	1
✧	323-23	Screw,3/8-16x4 1/2	1
55	1-303020	Grip, lever	1
56	323-9	Screw, HH 3/8-16 x 1 3/4	2
57	323-4	Screw, HH 3/8-16 x 3/4	3
58	1-412501-03	Park brake lever weldmt	1
59	1-414504	Weldmt, bracket w/bushings	1
60	1-413347	Sleeve, bushing	2
61	1-413344	Bushing, pivot	1
62	323-10	Screw, HH 3/8-16 x 2	1
63	1-414508	Bellcrank, w/ bushings	1
64	1-303548	Bushing, plastic	1
65	32128-21	Nut, hex flange lock 3/8-16	1
66	103-2399	Pin, clevis spring 3/8	1

Exmark red touch up spray paint - PN 1-850337

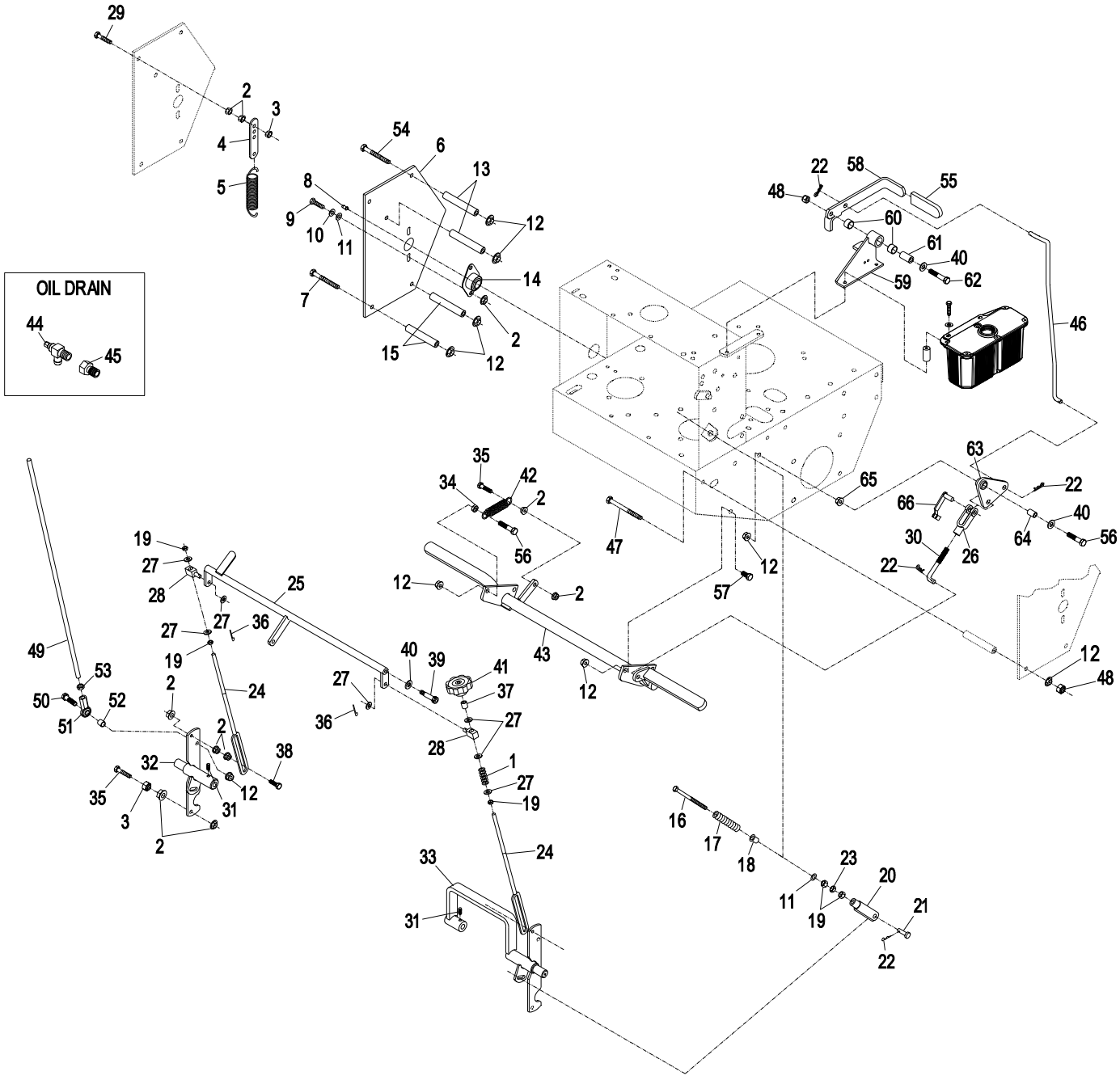
♦ Use Pro-Lock nut type, Part No. 1-840022 (.5 ml tube) on shoulder bolt & setscrew threads.

✧ Electric start only

● Manual start only

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

ENGINE DECK GROUP (con't.)



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	322-9	Screw, 5/16-18 x 1 3/4	2
6	3296-39	Nut, 3/8-16 nylock	1
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∇	103-1566-03	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∇	103-1567-03	Lever weldmt, opc RH	1
17	1-807513	Bolt, #10-24 x 1/2 carriage	2
18	1-513592	Knob, red throttle	1
19	1-633696	Cable, throttle	1
20	3296-2	Nut, #10-24 nylock	2
21	103-0770-03	Handle wld, upper ecs	1
22	103-0815	Grip, handle bar	2
23	1-413152	Bearing	4
24	103-2466-03	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
□	32128-33	Nut, 1/4-20 whizlock	14
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	103-2465-03	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●	103-2457	Console w/ decals	1
□	103-2458	Console w/ decals	1
	103-0546-03	Wld, upper handle console	1
42	103-0773	Speed shift weldmt	1
43	103-0423	Knob .38-16 nyloc	1
44	3296-29	Nut, 5/16-18 nyloc	4
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
□	321-3	Screw, 1/4-20 x 5/8	12
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	103-2107	Cap, fuel	1
53	103-2893	Asm, fuel tank	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	103-1796	Cable, choke	1
59	103-1797-01	Bracket, choke cable	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	filter w/6" fuel line	1
65	3296-47	Nut, nyloc thin 5/16-18	2
66	1-303287	Tie, plastic	1
67	103-2513	Asm, drive lever RH	1
	103-2514	Asm, drive lever LH	1
68	103-2463	Joint,.31 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
72♦	103-2605	Fitting, fuel blkhd w/screen	1

Exmark black touch up spray paint - Gloss black

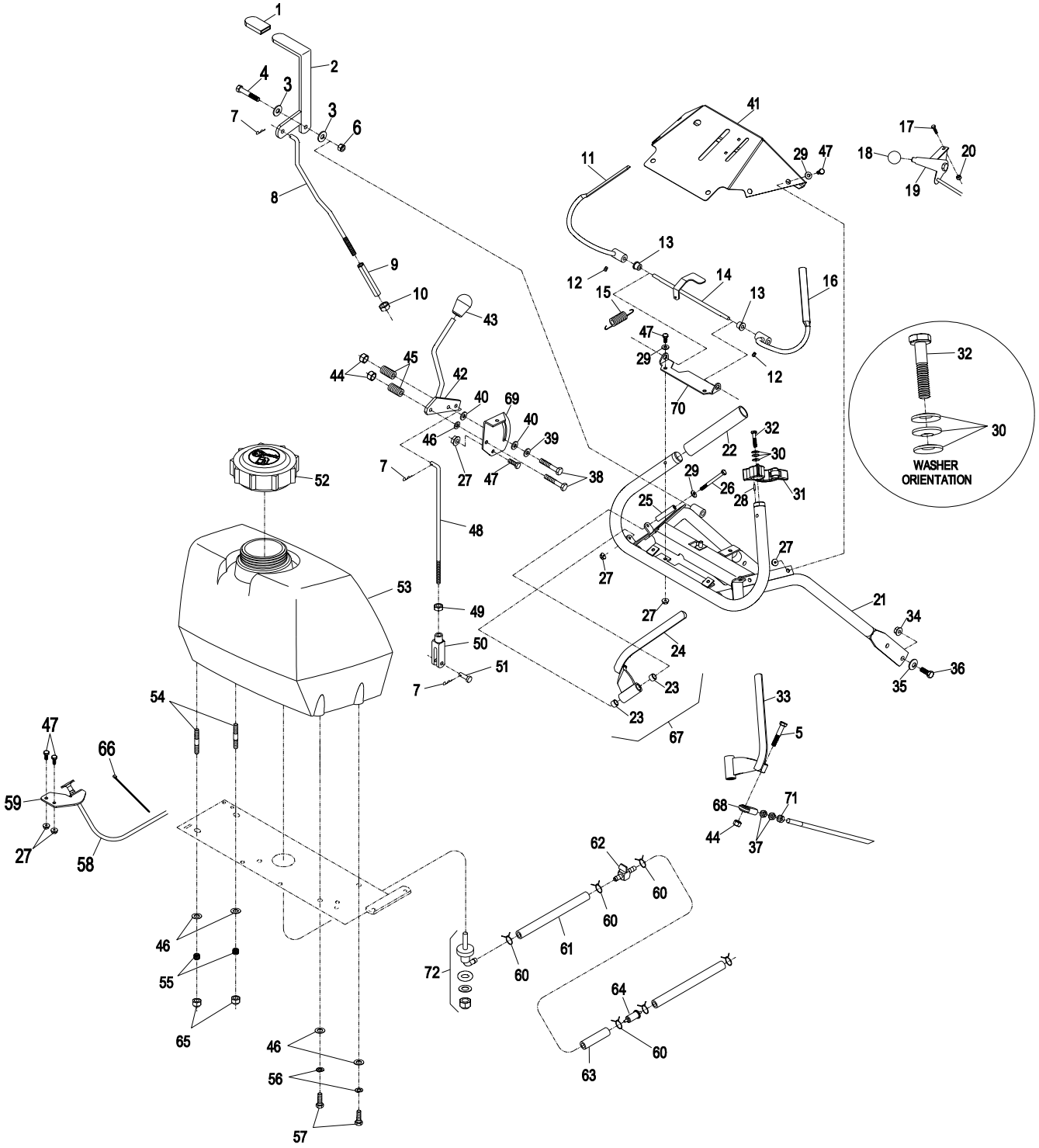
♦ Use Pro-Lock nut type, Part no. 1-840022 (.5cc tube) on setscrew threads, on thumblatch screws and on fuel fitting.

∇ 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.

• Electric start only

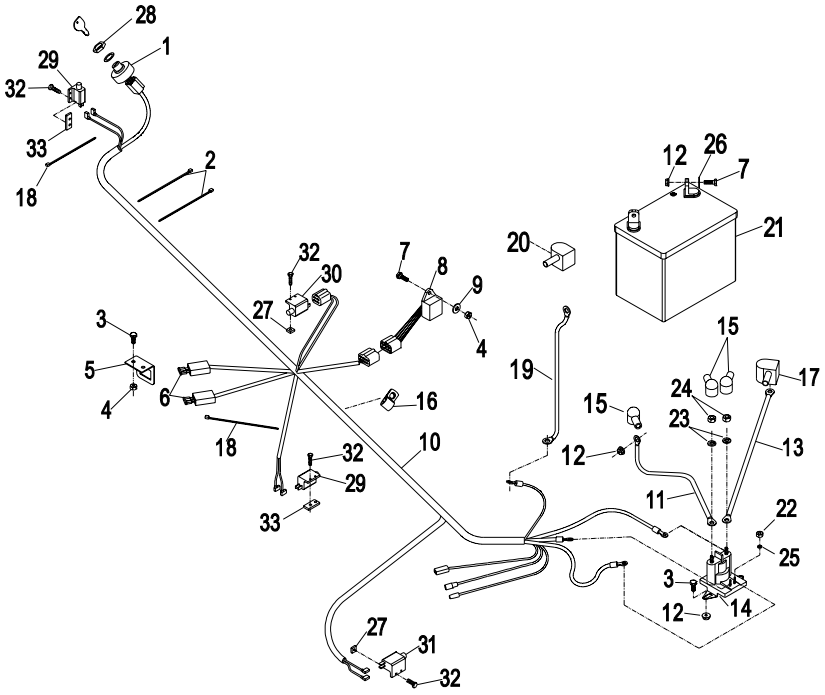
□ Manual start only

ECS UPPER HANDLES and CONTROLS



ELECTRICAL GROUP

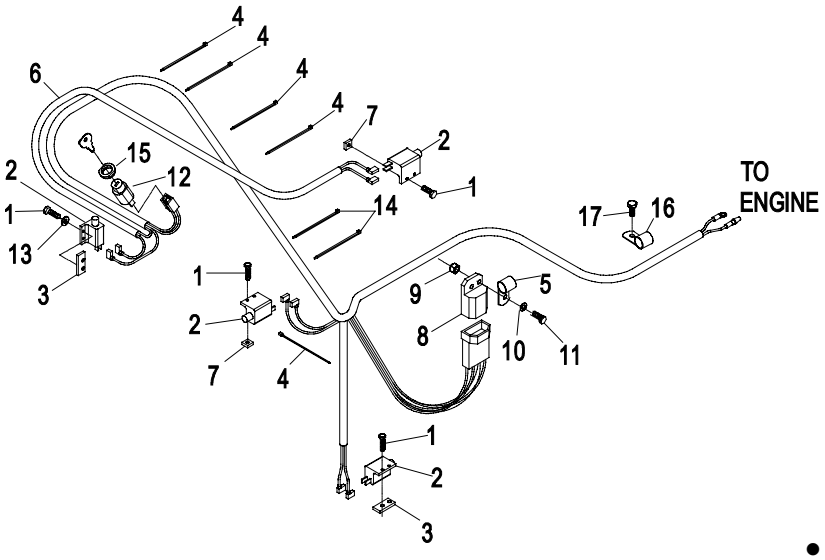
ELECTRIC START



Ref. No.	Part No.	Description	Qty. Req'd.
1	1-543070	Switch, ignition	1
	1-603511	Key, ignition	1
	103-2106	Key, Exmark logo	1
2	1-303335	Tie, plastic large	2
3	321-3 .	Screw, ¼-20 x 5/8	2
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	5
8	1-613198	Module	1
9	3256-22	Washer, ¼ SAE flat	1
10●	103-2006	Harness, wiring	1
11	1-633306	Cable, Solenoid/Starter +	1
12	32128-33	Nut, ¼-20 whizlock	5
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 small	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, lock .313	2
24	3220-2	Nut, jam 5/16 – 24	2
25	3253-17	Washer, lock .190	2
26	3256-2	Washer, flat ¼ std	2
27	1-804002	Nut, square #10-24	4
28	103-0498	Nut, Ignition Switch	1
29	1-513051	Switch, N.O.	2
30	1-633111	Switch N.O / N.C.	1
31	1-513152	Switch, N.C.	1
32	3290-500	Screw, #10-24 x 5/8	8
33	1-633181	Plate, tapped	2

● Use dielectric grease on all electrical connectors.

MANUAL START

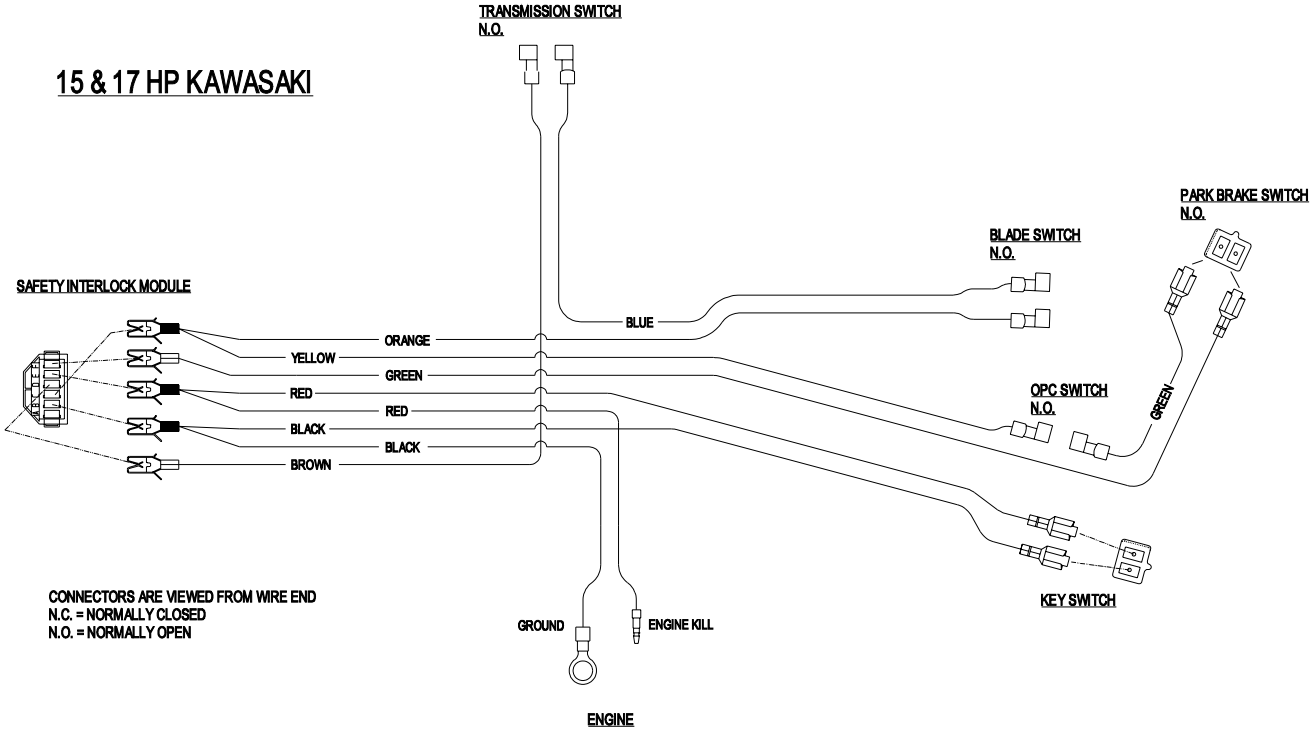


Ref. No.	Part No.	Description	Qty. Req'd.
1	3290-500	Screw, #10-24 x 5/8	8
2	1-513051	Switch, N.O.	4
3	1-633181	Plate, tapped	2
4	1-303287	Tie, plastic small	5
5	1-323229	Clip, loom 3/8	1
6●	103-2005	Harness, wiring	1
7	1-804002	Nut, square #10-24	4
8	1-323430	Module, interlock	1
9	3296-42	Nut, nyloc ¼-20	1
10	3256-22	Washer, ¼ SAE flat	1
11	321-4	Screw, ¼-20 x 3/4	1
12	1-403121	Switch, on/off	1
	1-603511	Key, ignition	1
	103-2106	Key, Exmark logo	1
13	3256-14	Washer,flat #10	1
14	1-303335	Tie, plastic large	2
15	103-0498	Nut, Ignition Switch	1
16	1-413510	Clip, loom 1/2	1
17	33114-016	Screw, M8-1.25 x 16mm	1

● Use dielectric grease on all electrical connectors.

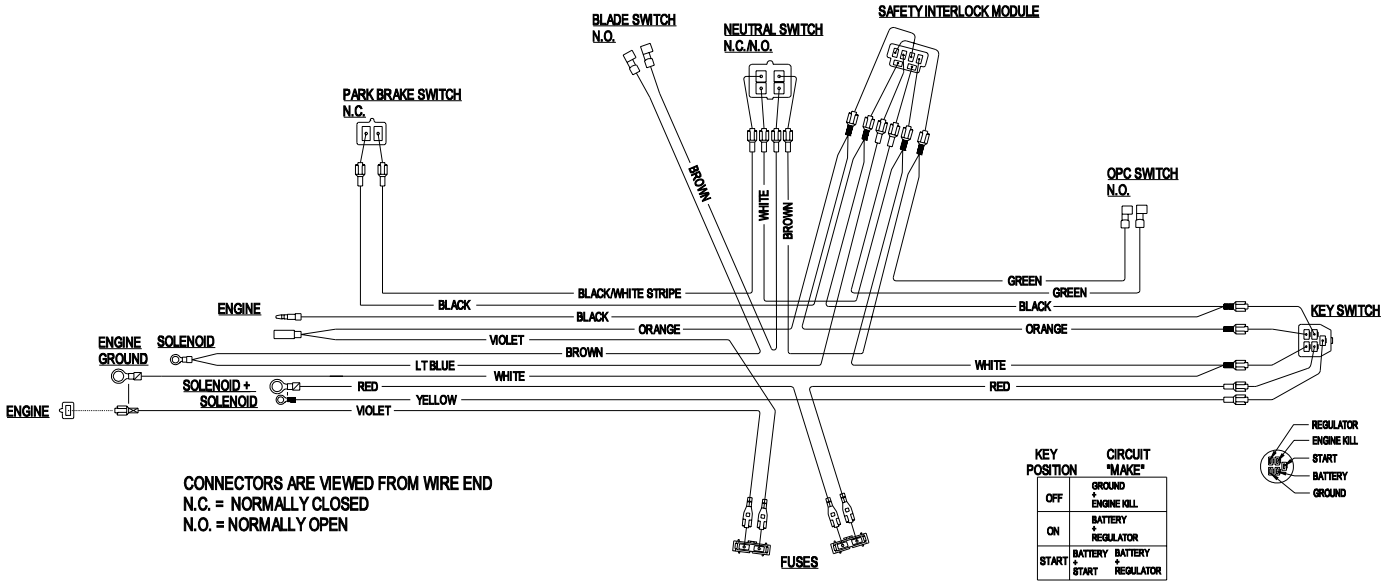
WIRING DIAGRAMS

15 & 17 HP KAWASAKI



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17 HP KAWASAKI ELECTRIC START

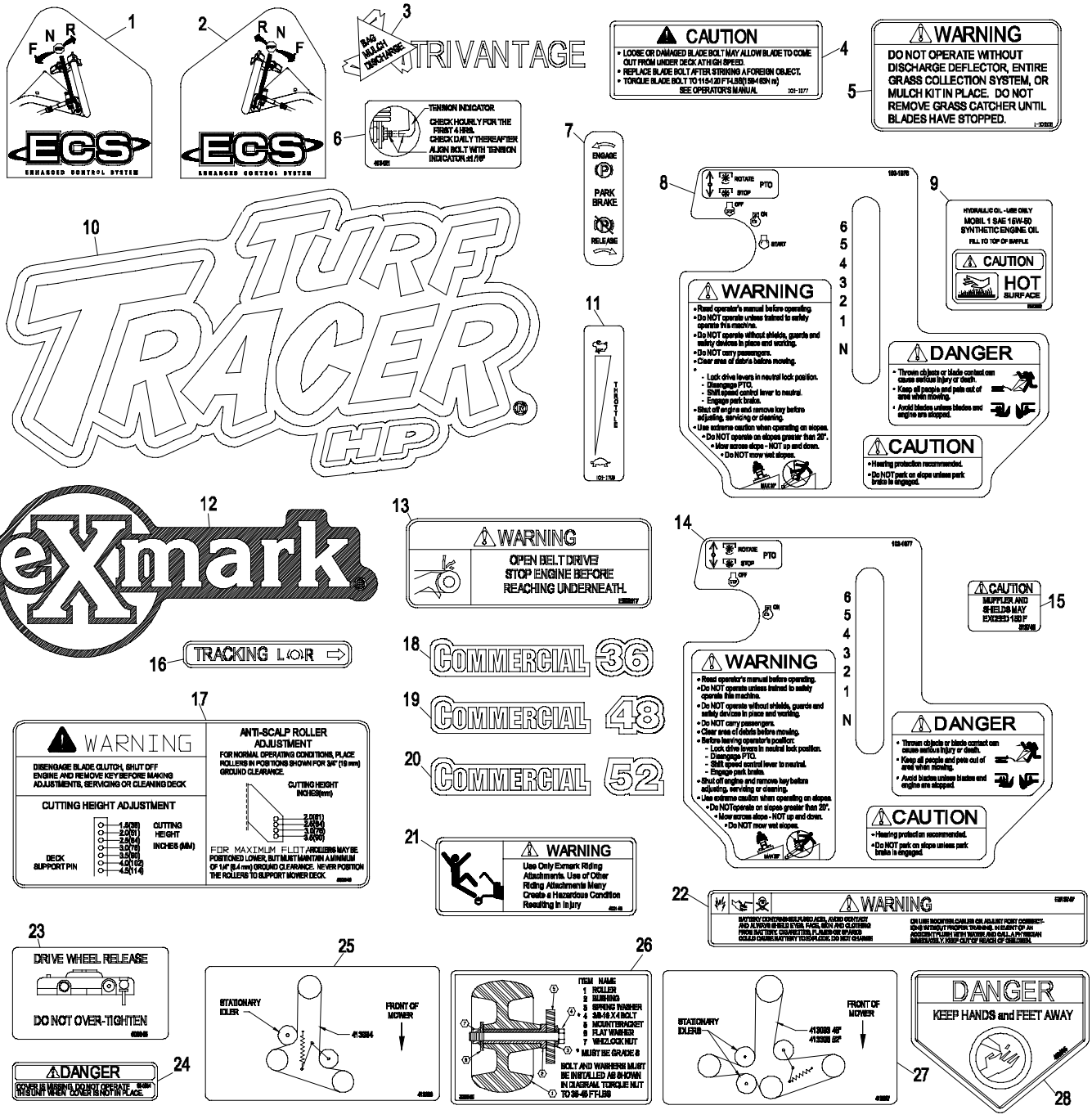


DECALS

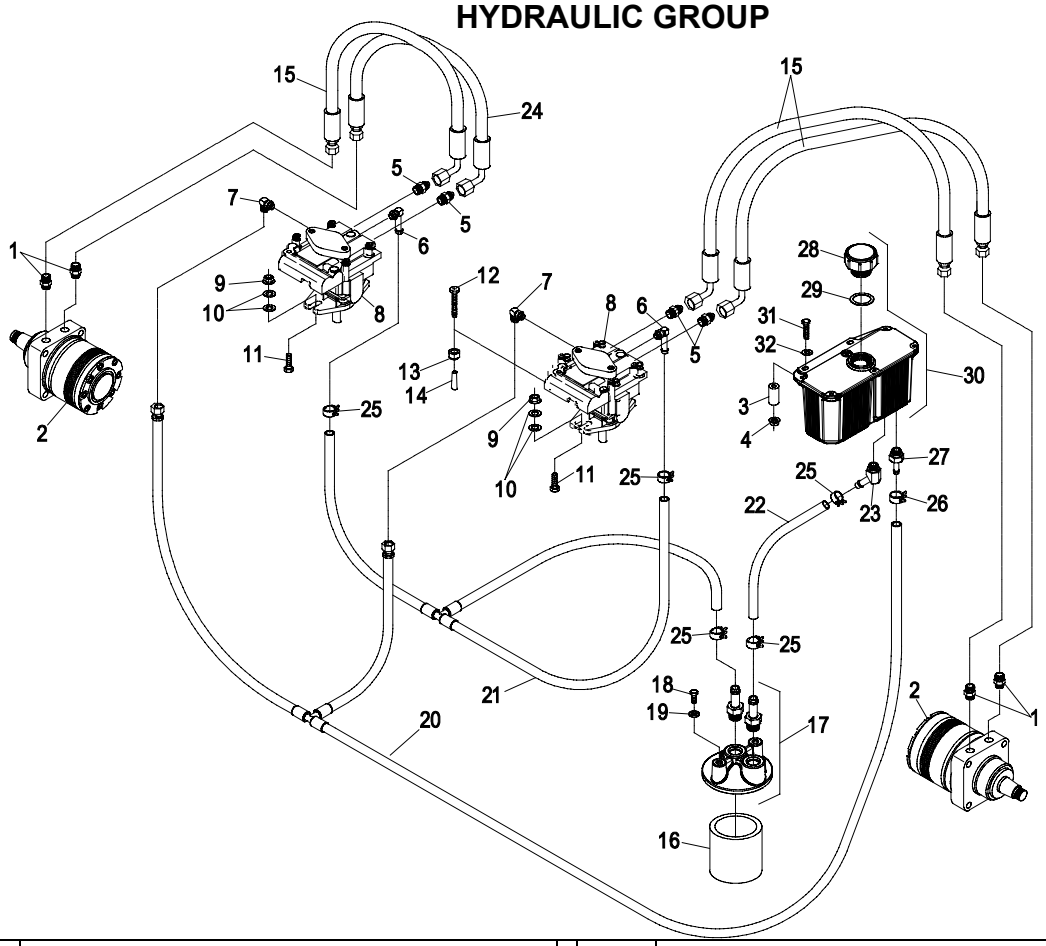
Ref. No.	Part No.	Description	Qty. Req'd.
1	103-2242	Decal, ECS instruction LH	1
2	103-2243	Decal, ECS instruction RH	1
3	1-303520	Decal, trivantage	1
4	103-1077	Decal, bolt torque	1
5	1-303508	Decal, discharge warning	1
6	1-413421	Decal, indicator	1
7	103-2103	Decal, park brake	1
8▲	103-1976	Decal, ECS console	1
9	1-523552	Decal, hydraulic tank	1
10	103-2939	Decal, TTHP model	1
11	103-1798	Decal, throttle	1
12	103-1983	Decal, exmark logo	1
13	1-303517	Decal, belt drive	1
14✧	103-1977	Decal, ECS console	1
15	1-513746	Decal, muffler	2
16	1-413214	Decal, tracking	1
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▲	1-513747	Decal, battery	1
23	1-603845	Decal, hyd drive release	1
24	98-5954	Decal, missing cover (36)	1
	98-5954	Decal, missing cover (48 & 52)	3
25	1-413206	Decal, belt routing (36)	1
26	1-323540	Decal, roller mounting	1
27	1-413327	Decal, belt routing (48 & 52)	1
28	1-403005	Decal, danger	2
	103-2461	Decal kit	

✧ Manual start models only
▲ Electric start models only

DECALS


1
2
3
BAG
MULCH
DISCHARGE
TRIVANTAGE
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 (156-163 N m)
SEE OPERATOR'S MANUAL
4
WARNING
DO NOT OPERATE WITHOUT DISCHARGE DEFLECTOR, ENTIRE GRASS COLLECTION SYSTEM, OR MULCH KIT IN PLACE. DO NOT REMOVE GRASS CATCHER UNTIL BLADES HAVE STOPPED.
5
ECS
ENHANCED CONTROL SYSTEM
6
TENSION INDICATOR
CHECK HOURLY FOR THE FIRST 4 HRS.
CHECK DAILY THEREAFTER
ALIGN BOLT WITH TENSION INDICATOR ±1/16"
7
ENGAGE
PARK
BRAKE
RELEASE
8
ROTATE
PTO
STOP
OFF
ON
START
6
5
4
3
2
1
N
WARNING
• Read operator's manual before operating.
• Do NOT operate unless trained to safely operate this machine.
• Do NOT operate without shields, guards and safety devices in place and working.
• Do NOT carry passengers.
• Clear area of debris before mowing.
• Before leaving operator's position:
- Lock drive levers in neutral lock position.
- Disengage PTO.
- Shift speed control lever to neutral.
- Engage park brake.
• Shut off engine and remove key before adjusting, servicing or cleaning.
• Use extreme caution when operating on slopes.
• Do NOT operate on slopes greater than 20°.
• Mow across slope - NOT up and down.
• Do NOT mow wet slopes.
9
HYDRAULIC OIL - USE ONLY
MOBIL 1 SAE 15W-50
SYNTHETIC ENGINE OIL
FILL TO TOP OF BAFFLE
CAUTION
HOT
SURFACE
DANGER
• Thrown objects or blade contact can cause serious injury or death.
• Keep all people and pets out of area when mowing.
• Avoid blades unless blades and engine are stopped.
CAUTION
• Hearing protection recommended.
• Do NOT park on slope unless park brake is engaged.
10
TURF TRACER HP
11
THROTTLE
12
eXmark
13
WARNING
OPEN BELT DRIVE!
STOP ENGINE BEFORE
REACHING UNDERNEATH.
14
ROTATE
PTO
STOP
OFF
ON
6
5
4
3
2
1
N
WARNING
• Read operator's manual before operating.
• Do NOT operate unless trained to safely operate this machine.
• Do NOT operate without shields, guards and safety devices in place and working.
• Do NOT carry passengers.
• Clear area of debris before mowing.
• Before leaving operator's position:
- Lock drive levers in neutral lock position.
- Disengage PTO.
- Shift speed control lever to neutral.
- Engage park brake.
• Shut off engine and remove key before adjusting, servicing or cleaning.
• Use extreme caution when operating on slopes.
• Do NOT operate on slopes greater than 20°.
• Mow across slope - NOT up and down.
• Do NOT mow wet slopes.
15
CAUTION
MUFFLER AND SHIELDS MAY EXCEED 180°F
DANGER
• Thrown objects or blade contact can cause serious injury or death.
• Keep all people and pets out of area when mowing.
• Avoid blades unless blades and engine are stopped.
CAUTION
• Hearing protection recommended.
• Do NOT park on slope unless park brake is engaged.
16
TRACKING LOOR
17
WARNING
DISENGAGE BLADE CLUTCH, SHUT OFF ENGINE AND REMOVE KEY BEFORE MAKING ADJUSTMENTS, SERVICING OR CLEANING DECK
CUTTING HEIGHT ADJUSTMENT
DECK SUPPORT PIN
1.5(38)
2.0(51)
2.5(64)
3.0(76)
3.5(90)
4.0(102)
4.5(114)
CUTTING HEIGHT INCHES (MM)
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 FLOTATION 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
WARNING
23
DRIVE WHEEL RELEASE
DO NOT OVER-TIGHTEN
24
DANGER
COVER IS MISSING. DO NOT OPERATE THIS UNIT WHEN COVER IS NOT IN PLACE.
25
STATIONARY IDLER
FRONT OF MOWER
26
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 30-45 FT-LBS
27
STATIONARY IDLER
FRONT OF MOWER
DANGER
KEEP HANDS and FEET AWAY
28

HYDRAULIC GROUP



Ref. No.	Part No.	Description	Qty. Req'd.
1	1-603991	Fitting, straight 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	103-2191	Spacer, hydraulic tank	2
4	32128-33	Nut, whizlock 1/4-20	2
5	1-603990	Adapter, straight thread	4
	1-603920	Boss O-Ring	1
	1-603992	Flare O-Ring	1
6	1-603989	Elbow, 90°	2
	1-603923	O-Ring	1
7	1-513840	Elbow - 90°	2
	1-603921	O-Ring	1
8	1-613042	Pump, hydro	2
	2513018	Kit, seal overhaul	1
9	3290-357	Nut, whizlock 3/8-16	4
10	3256-3	Washer, 5/16 std	8
11	323-7	Screw, 3/8-16 x 1-1/4	4
12	1-801063	Screw, 1/4-20x2 pan head	2
13	3296-42	Nut, nylock 1/4-20	2
14	1-613073	Grip, dump valve	2

Ref. No.	Part No.	Description	Qty. Req'd.
15	1-613034	Hose, high pressure	3
16	1-513211	Element, oil filter	1
∇	1-523541	Element, oil filter(winter)	1
17	103-2889	Asm, filter head	1
	103-1912	Adapter, straight	2
	1-603921	O-Ring	1
18	321-3	Screw, 1/4-20 x 5/8	2
19	1-805004	Lockwasher	2
20	103-2073	Asm, case drain hose	1
21	103-2057	Asm, charge hose	1
22	103-2959	Hose, charge	1
23	103-1807	Elbow, 45°	1
	1-603921	O-Ring	1
24	1-323241	Hose, high pressure	1
25	103-1988	Clamp, hose (11/16)	5
26	103-1716	Clamp, hose (17/32)	1
27	103-1801	Adapter, straight	1
	1-603921	O-Ring	1
28	103-1948	Cap, hydraulic reservoir	1
29	103-1949	Gasket, reservoir cap	1
30	103-1947	Asm, reservoir w/ decal	1
31	321-15	Screw, 1/4-20 x 2 1/2	2
32	3256-22	Washer, ¼ SAE flat	2

Emark black touch up spray paint - gloss black

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

NOTES

NOTES

SERVICE RECORD

Date	Description of Work Done	Service Done By

SEE EXMARK'S COMPLETE
LINE OF PRODUCTS FOR TURF CARE

LAZER Z®

LAZER Z® HP

LAZER Z® XP

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TURF TRACER®

TURF TRACER® HP

VIKING HYDRO

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