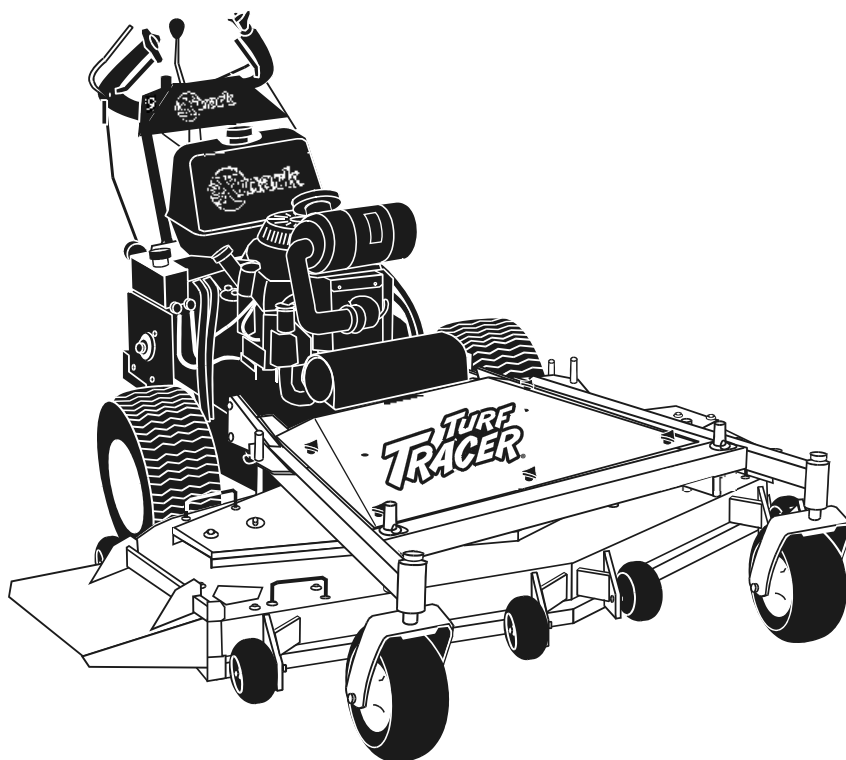




For Serial Nos.
370,000 & Higher



PARTS MANUAL

TURF TRACER[®]

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 of the tractor is located on top of the engine frame on the left hand side of the machine just inside the left wheel.

The Serial No. Plate for the mower deck is located on the rear right hand belt cover support under the front frame.

For Ease of ordering and reference, we suggest that you record the information requested in the following identification table.

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

Tractor Model No. _____

Tractor Serial No. _____

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

Mower Deck Model No. _____

Mower Deck Serial No. _____

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

Engine Serial No. (E/No)

Date Purchased

EXMARK PARTS PLUS® PROGRAM

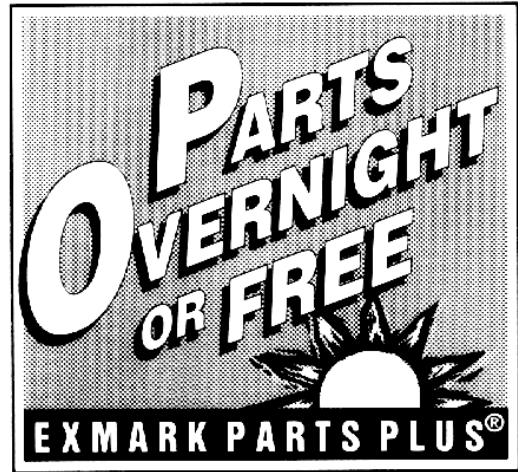
EFFECTIVE DATE: September 1, 1995

Program

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

How the Program Works

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



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

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

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



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

TABLE OF CONTENTS

<u>Description</u>	<u>Page</u>
52" Mower Deck	2 - 3
60" Mower Deck	4 - 5
Decals	14
ECS Upper Handles & Controls	12-13
Electrical Diagram	16
Electrical Group.....	15
Electrical Logic Schematic	17
Engine Deck Group.....	8-10
FMD 524 & 604 Cutter Housing Assemblies.....	6 - 7
Hydraulics Group	11

52" MOWER DECK FMD524

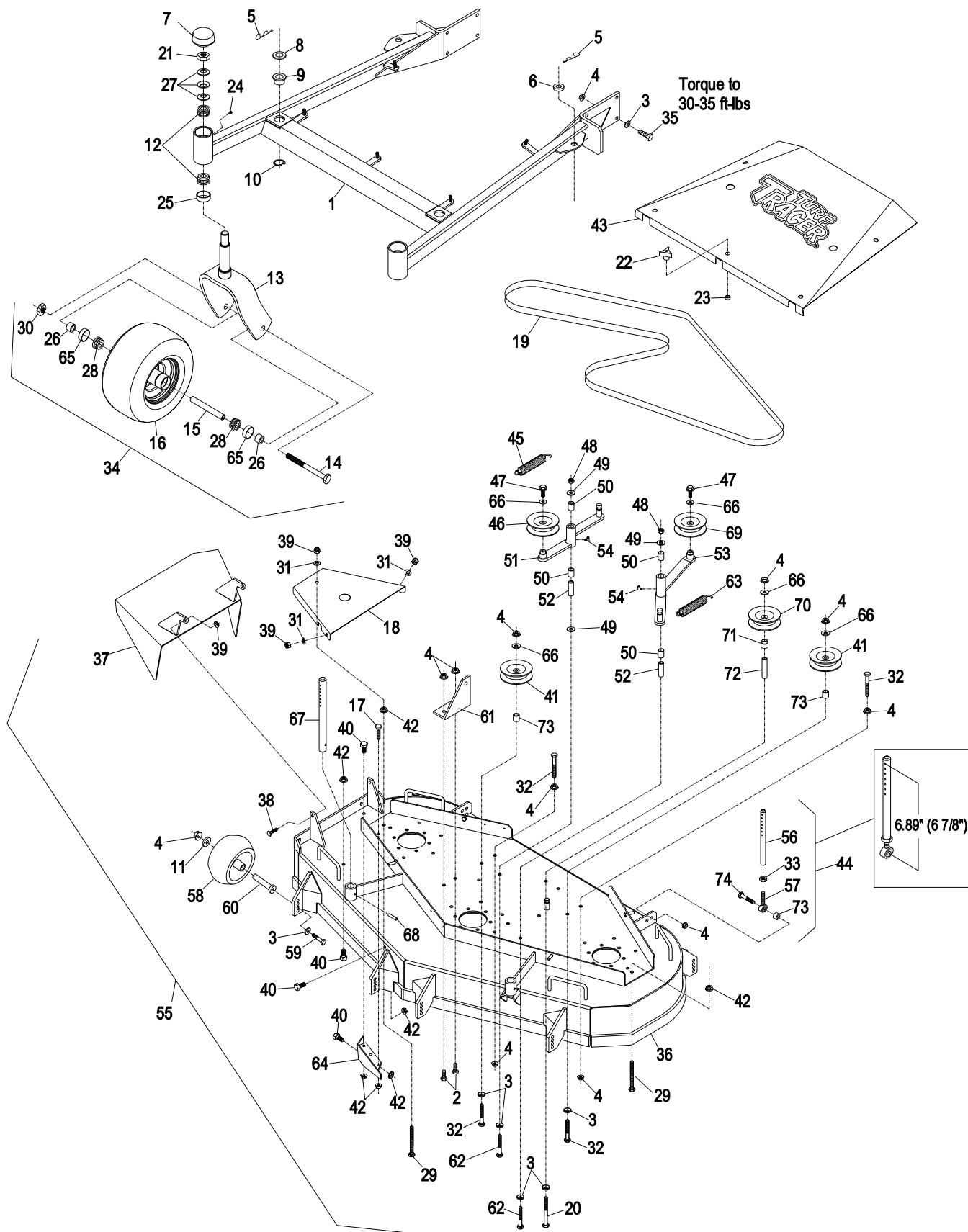
Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-1895	Support, deck 103-2324-01 w/ bsgs, brgs, seals, & cap.....	1	37	103-2348-01	Chute, Discharge	1
2	323-6	Capscrew, 3/8-16 x 1.....	2	38	322-5	Capscrew, 5/16-18 x 1	2
3	98-5975	Washer, disc spring 3/8	19	39	3296-29	Nut, nyloc 5/16-18	8
4	3290-357	Nut, whizlock 3/8-16	25	40	322-2	Capscrew, 5/16-18 x 5/8	5
5	1-806009	Hairpin, .177	4	41	1-303516	Pulley, V-Idler.....	2
6	1-323539	Spacer	2	42	32128-20	Nut, whizlock 5/16-18.....	8
7	1-543513	Cap, grease	2	43	103-2332	Shield, Belt (103-2319-01) w/ decal	1
8	1-413425	Spacer	2	44❖	1-414521	Link Assy.....	2
9	1-513336	Bushing, deck support	2	45	1-603413	Spring, extension	1
10	32120-33	Ring, retaining (external)	2	46	1-603497	Pulley, Idler	1
11	1-373034	Washer, pivot.....	6	47	3234-11	Screw, whizlock 3/8-16 x 1	2
12	1-543509	Bearing cone, tapered roller	4	48	3296-39	Nut, nylock 3/8-16	2
	1-543508	Bearing cup, tapered roller	4	49	3256-4	Washer, 3/8	3
13	103-1891-01	Fork, caster	2	50	1-513034	Bearing, pivot.....	4
14	325-20	Capscrew, 1/2-13 x 6.....	2	51	1-602604	Idler arm assy w/bearings	1
15	103-2355	Spacer, front caster	2		1-602591-03	Arm, deck idler.....	1
16	103-1687	Tire & Wheel Asm.....	2	52	1-603384	Bushing, idler pivot.....	2
	1-513032	Tire, 11 x 4-5 4 ply	2	53	1-602865	Idler arm, w/ brgs deck drive	1
	103-2274	Wheel	2		1-602867-03	Arm, deck drive idler	1
	1-633584	Bearing cup	4	54	302-40	Zerk, 1/4-28 (90°).....	2
17	322-3	Capscrew, 5/16-18 x 3/4.....	1	55Φ	103-2327	Complete deck assembly	1
18	103-2969-01	Cover, deck	2	56	1-413525	Link, rear deck support	2
19	103-2329	Belt, blade drive	1	57	1-613204	Balljoint	2
20	323-23	Capscrew, 3/8-16 x 4.5.....	1	58	1-603299	Roller, anti scalp	6
21	3296-51	Nut, nyloc 3/4-10	2	59	98-5961	Capscrew, 3/8-16 x 4 Gr8	6
22	1-323385	Knob, 3 prong	5	60	1-603602	Bushing, roller	6
23	1-323417	Washer, belt cover mounting....	5	61	1-603620-01	Bracket, spring anchor	1
24	1-811010	Plug	2	62	1-800805	Capscrew, 3/8-16 x 3-1/2 Gr8 ...	2
25	1-543511	Seal, grease	2	63	1-603414	Spring, extension	1
26	1-633581	Spacer, bearing	4	64	1-602913-01	Baffle	1
27	1-633508	Washer, spring disk	6	65	103-0063	Seal, caster	4
28	1-633585	Bearing, cone	4	66	3256-24	Washer, 3/8 SAE Flat	5
29	1-800017	Bolt, Tap 5/16-18 x 3 1/4	2	67	1-603001	Rod, deck support.....	2
30	3296-45	Nut, nyloc 1/2-13 thin.....	2	68	1-806332	Roll pin, 1/4 x 1-1/2	2
31	3256-3	Washer, 5/16 flat	6	69	1-613098	Idler.....	1
32	323-12	Capscrew, 3/8-16 x 2 1/2	4	70	1-603805	Idler.....	1
33	3219-3	Nut, hex 3/8-24	2	71	1-513791	Bushing.....	1
34	103-2495	Caster Wheel Assy	2	72	1-633988	Spacer	1
35	323-7	Capscrew, 3/8-16 x 1 1/4	8	73	1-603050	Spacer	4
36	103-2335	Deck, 103-2321-01 w/ Decals...	1	74	323-9	Capscrew, 3/8-16 x 1 3/4	2

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

- ❖ Link assembly nominal length is 6.89" (or approx. 6 7/8") between center of ball joint & 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 th other by an equal amount.

- Φ Complete Deck Assembly includes Mower Deck Cutter Housing Assemblies & Blades. See Pages 6 & 7.

52" MOWER DECK FMD524



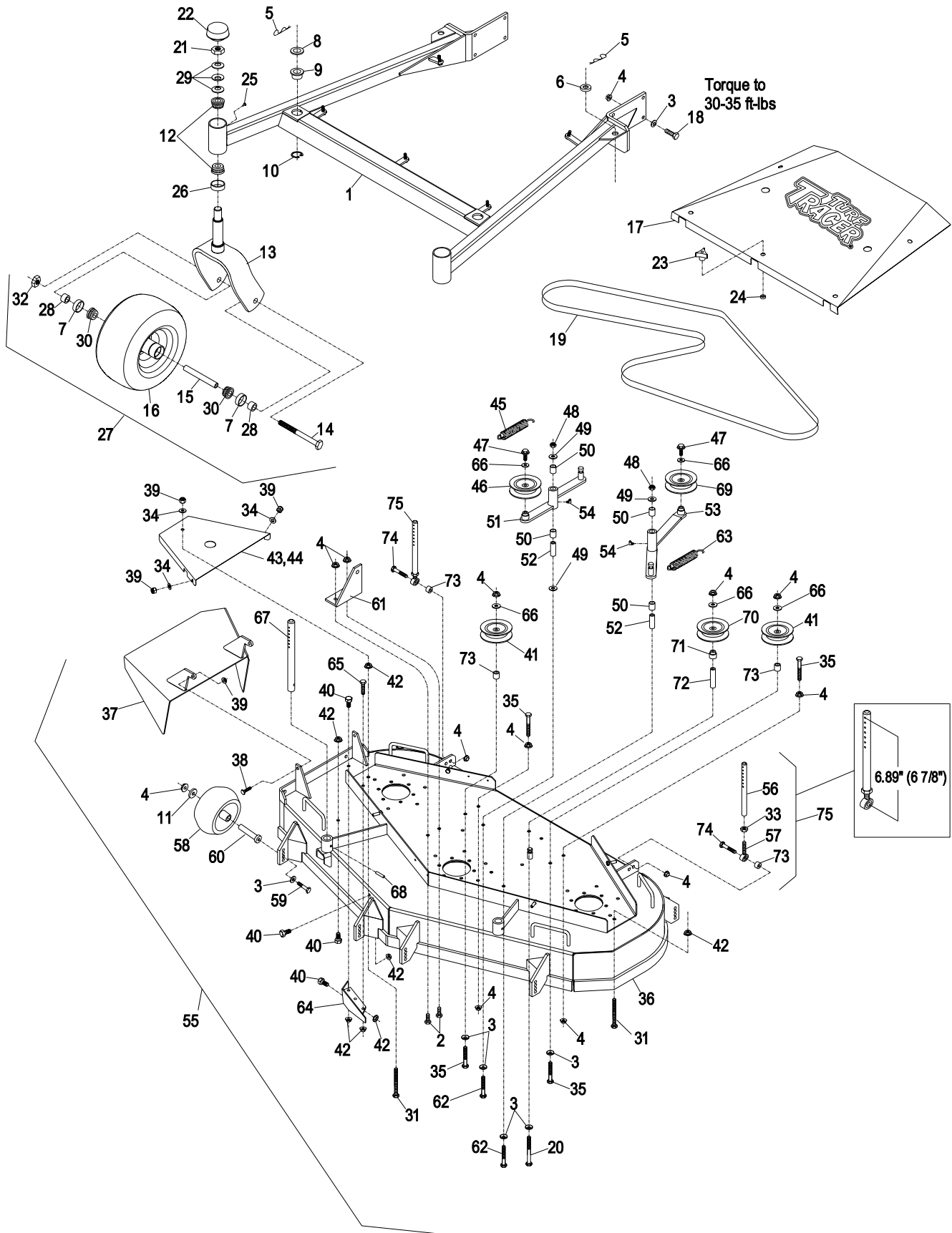
60" MOWER DECK FMD604

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-1896	Support, deck 103-2249-01 w/bsgs, brgs, seals, & cap	1	37	103-2349-01	Chute, Discharge	1
2	323-6	Capscrew, 3/8-16 x 1	2	38	322-5	Capscrew, 5/16-18 x 1	2
3	98-5975	Washer, disc spring 3/8	19	39	3296-29	Nut, nyloc 5/16-18	8
4	3290-357	Nut, whizlock 3/8-16	25	40	322-2	Capscrew, 5/16-18 x 5/8	5
5	1-806009	Hairpin, .177	4	41	1-303516	Pulley, V-Idler	2
6	1-323539	Spacer	2	42	32128-20	Nut, whizlock 5/16-18	8
7	103-0063	Seal, caster	4	43	103-2967-01	Shield, Belt RH	1
8	1-413425	Spacer	2	44	103-2968-01	Shield, Belt LH	1
9	1-513336	Bushing, deck support	2	45	1-603413	Spring, extension	1
10	32120-33	Ring, retaining (external)	2	46	1-603497	Pulley, idler	1
11	1-373034	Washer, pivot	6	47	3234-11	Screw, whizlock 3/8-16 x 1	2
12	1-543509	Bearing cone, tapered roller	4	48	3296-39	Nut, nylock 3/8-16	2
	1-543508	Bearing cup, tapered roller	4	49	3256-4	Washer, 3/8	3
13	103-1891-01	Fork, caster	2	50	1-513034	Bearing, pivot	4
14	325-20	Capscrew, 1/2-13 x 6	2	51	1-602604	Idler arm assy w/bearings	1
15	103-2355	Spacer, front caster	2		1-602591-03	Arm, Deck Idler	1
16	103-1687	Tire & Wheel Asm	2	52	1-603384	Bushing, idler pivot	2
	1-513032	Tire, 11 x 4-5 4 ply	2	53	1-602865	Idler arm, w/ brngs deck drive	1
	103-2274	Wheel	2		1-602867-03	Arm, deck drive idler	1
	1-633584	Bearing cup	4	54	302-40	Zerk, 1/4-28 (90°)	2
17	103-2275	Shield, Belt (103-2273-01) w/ decal ..	1	55Φ	103-2279	Complete Deck Assy	1
18	323-7	Capscrew, 3/8-16 x 1 ¼	8	56	1-413525	Link, rear deck support	2
19	1-633173	Belt, blade drive	1	57	1-613204	Balljoint	2
20	323-23	Capscrew, 3/8-16 x 4.5	1	58	1-603299	Roller, anti scalp	6
21	3296-51	Nut, nyloc ¾-10	2	59	98-5961	Capscrew, 3/8-16 x 4 Gr8	6
22	1-543513	Cap, grease	2	60	1-603602	Bushing, roller	6
23	1-323385	Knob, 3 prong	5	61	1-603620-01	Bracket, spring anchor	1
24	1-323417	Washer, belt cover mounting	5	62	1-800805	Capscrew, 3/8-16 x 3 ½ Gr8	2
25	1-811010	Plug	2	63	1-603414	Spring, extension	1
26	1-543511	Seal, grease	2	64	1-602913-01	Baffle	1
27	103-2495	Caster Wheel Assy	2	65	322-3	Capscrew, 5/16-18 x 3/4	1
28	1-633581	Spacer, bearing	4	66	3256-24	Washer, 3/8 SAE Flat	5
29	1-633508	Washer, spring disk	6	67	1-603001	Rod, deck support	2
30	1-633585	Bearing, cone	4	68	1-806332	Roll pin, 1/4 x 1-1/2	2
31	1-800017	Bolt, Tap 5/16-18 x 3 ¼	2	69	1-613098	Idler	1
32	3296-45	Nut, nyloc ½-13 thin	2	70	1-603805	Idler	1
33	3219-3	Nut, hex 3/8-24	2	71	1-513791	Bushing	1
34	3256-3	Washer, 5/16 flat	6	72	1-633988	Spacer	1
35	323-12	Capscrew, 3/8-16 x 2 ½	4	73	1-603050	Spacer	4
36	103-2278	Deck, 103-2267-01 w/ Decals	1	74	323-9	Capscrew, 3/8-16 x 1 3/4	2
				75❖	1-414521	Link Assy	2

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

- ❖ Link assembly nominal length is 6.89" (or approx. 6 7/8") between center of ball joint & 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.
- Φ Complete Deck Assembly includes Mower Deck Cutter Housing Assemblies & Blades. See Pages 6 & 7.

60" MOWER DECK FMD604



FMD 524 & 604 MOWER DECK CUTTER HOUSING ASSY

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	32128-58	Nut, Flange 5/8-18 UNF.....	3	17	3296-39	Nut, Nyloc 3/8-16	18
2	1-513208	Washer, Spring Disc	3	18	1-323533	Spacer, Shv/Brg.....	3
3 ▽	1-633701	Sheave, blade drive	3	19	103-0865	Washer, Blade bolt hvy	3
4 ▽	1-513016	Bearing	6	20 ▽	103-1331	Guard, Bearing top.....	3
5	1-323532	Housing, bearing.....	3	21 ▲	103-2328	Housing, Cutter Complete (center 524).	1
6	1-323528	Spacer, bearing	3	▲	103-2314	Housing, Cutter Complete (center 604).	1
7	1-633573	Guard, dust.....	3	22 ▲	103-1140	Housing, Cutter Complete(outer) 2	
8	32120-8	Snap ring	3	23	3217-46	Nut, HH 3/4-16 Heavy	3
9	10-8040	Key, square.....	4	24	103-2802	Washer, Spring Disc	3
10 ▽	103-2326	Spindle, outer blade (short).....	2	25 ▽	103-2794	Sheave, Blade Drive	3
11 ▽	103-2219	Spindle, center blade (long)	1	26 ▽	103-2477	Bearing, Ball.....	6
12	103-2528	Blade, notched (524)	3	27	103-2534	Spacer, Bearing	3
	103-1578	Blade, solid (524).....	3	28	103-2535	Spacer, Guard Bottom	3
	103-2508	Blade, low lift (524)	3	29 ▽	103-2785	Spindle, Outer Blade (Short)	2
◆	103-2518	Blade, mulching (524).....	3	30 ▽	103-2786	Spindle, Center Blade (Long)	1
	103-2530	Blade, notched (604)	3	31	103-2982	Key, 1/4 x 3/16 x 3/4	4
	103-1580	Blade, solid (604).....	3	32 ▽	103-2793	Sheave, Mower Drive (524 deck)	3
	103-2510	Blade, low lift (604)	3		103-2791	Sheave, Mower Drive (604 deck)	3
◆	103-0301	Blade, mulching (604).....	3	33 ▽	103-1330	Guard, bearing top	3
13	103-0862	Capscrew, 5/8-18x2 3/4, Gr8 ...	3	34	103-2547	Cutter housing assembly.....	3
14	323-8	Capscrew, 3/8-16 x 1 1/2 (604).	18	35 ▲	103-3199	Housing, Cutter Complete (center 524).	1
	323-7	Capscrew, 3/8-16 x 1 1/4 (524).	18	▲	103-3205	Housing, Cutter Complete (center 604).	1
15	1-603504	Spacer, tube	1	36 ⊗ ▲	103-3200	Housing, Cutter Complete (outer)	2
16 ▽	1-603581	Sheave, mower drive (524).....	1	37 ★		Housing w/brg spacer & ring	3
	103-2270	Sheave, mower drive (604).....	1	38	103-3209	Spacer, tube	1

◆ Requires installation of Micro-Mulch accessory for proper mulching. (Mulch Kit P/N MK524 or MK604)

▽ Apply Mobil HTS Grease (or a food grade anti-seize) between the spindles & bearings, between spindles & sheaves, and under top of bearing guard. DO NOT use a copper or nickel based anti-seize.

⊗ Complete cutter housing assembly 103-3200 can be used on decks with S/N 320,000 thru 351,999. However, belt shields must be replaced with new shields with larger spindle holes. P/N 103-2969-01 (2 required) for FMD524; P/N's 103-2967-01 (RH) and 103-2968-01 (LH) for FMD 604.

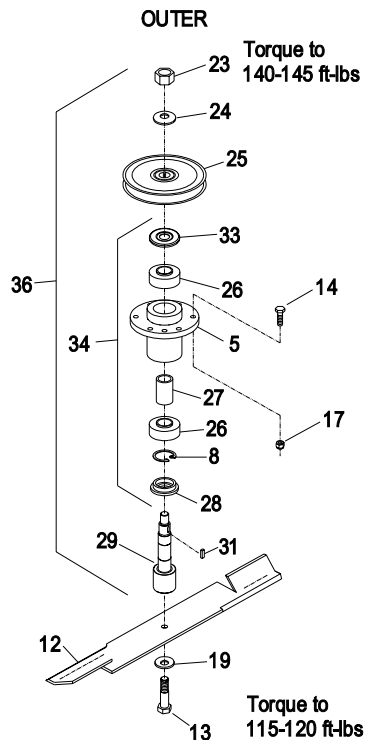
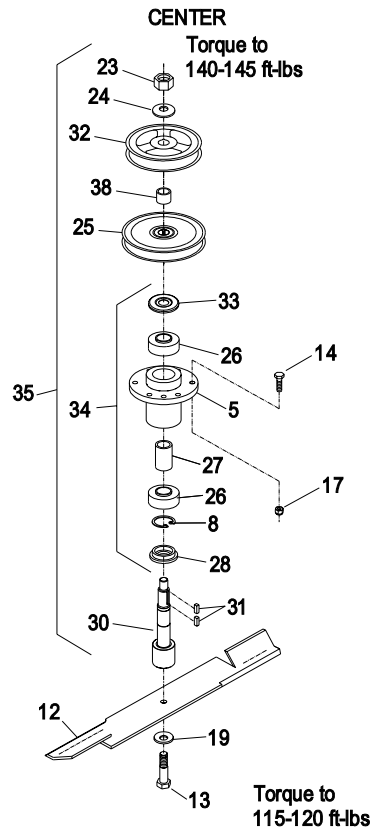
★ This assembly is now serviced by kit number 103-2547.

▲ Complete cutter housings also include Items 13 & 19

FMD 524 & 604 MOWER DECK CUTTER HOUSING ASSY

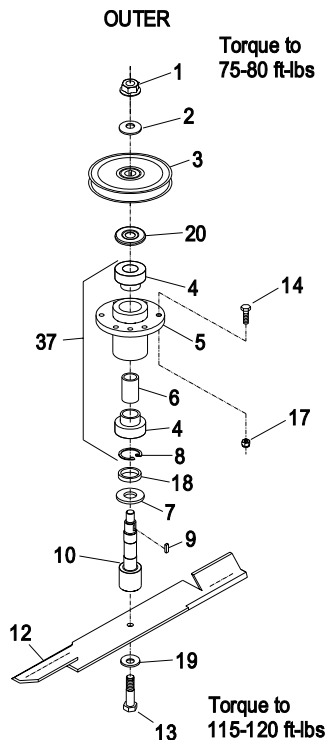
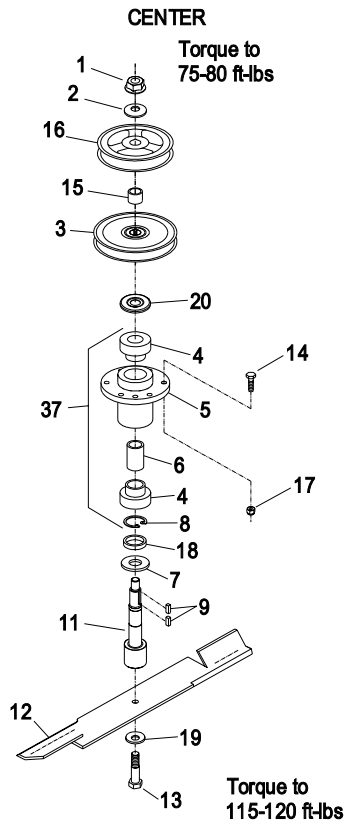
S/N 352,000 & HIGHER
(3/4-16 TOP SPINDLE NUT)

ORIGINAL EQUIPMENT & CUTTER
HOUSING ASSY FOR SERVICE

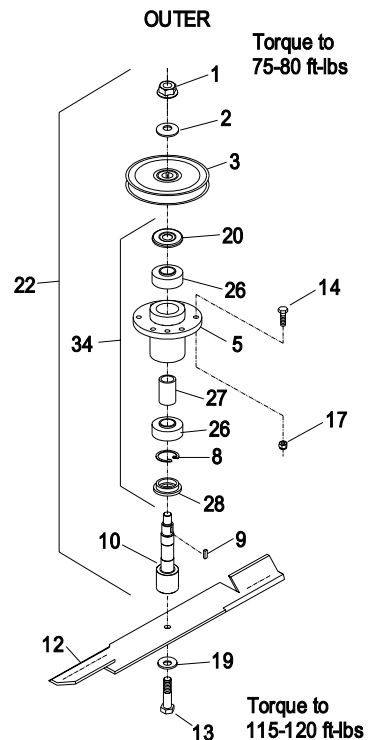
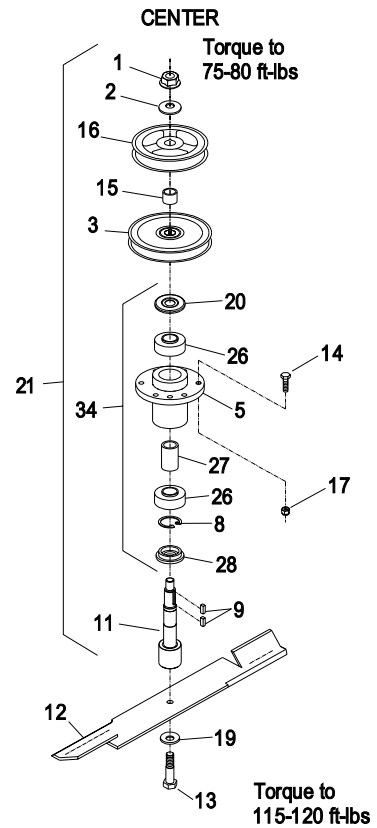


S/N 320,000 - 351,999 (5/8-18 TOP SPINDLE NUT)

ORIGINAL EQUIPMENT



CUTTER HOUSING ASSY FOR SERVICE



ENGINE DECK GROUP

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-3422	Eng Deck 103-2963-01 w/ decals ...	1	42	1-603737	Bolt, neutral return	2
2*	103-1963	Valve, oil drain (Koh)	1	43	103-0265	Spring, neutral return	2
3*	103-1965	Valve, oil drain (Kaw)	1	44	1-603735	Bushing, flanged.	2
4	103-1966	Adapter, M20-2.5 x 3/8 NPT	1	45	1-303105	Yoke, adjustable.	2
5	1-602997	Hub, 4 bolt	2	46	322-3	Screw, 5/16-18 x 3/4	13
	1-633926	Stud	8	47	103-2421	Tube, pump link spacer	2
6	103-1715	Tire and wheel assy	2	48	3290-357	Nut, 3/8-16 whizlock	4
	103-2237	Tire only 18 x 8.50	2	49	32128-20	Nut, 5/16-18 whizlock	28
	103-2238	Wheel only	2	50	322-38	Screw, 5/16-18 x 4 1/2	1
7	242-50	Nut, wheel	8	51	322-6	Screw, 5/16-18 x 1 1/4	1
8	1-807019	Key, woodruff 1" x 1/4"	2	52Φ	3212-10	Screw, 7/16-20 x 2 1/2 (Koh)	1
9	1-806800	Pin, cotter 9/64 X 1 1/2	2		3212-12	Screw, 7/16-20 x 3 (Kaw)	1
10	32136-5	Nut, 3/4-16-2B slotted hex ...	2	53	1-603610	Washer, spring disc.	2
11	1-613089	Anchor, spring	2	54	1-633545	Spacer, clutch anchor	2
12	1-413510	Clip, loom 2.06 dia.	3	55	1-613235	Washer	4
13	1-807259	Key, 1/4 x 1/4 x 1	1	56	3296-29	Nut, nylock 5/16-18	7
14	103-2240	Belt, deck drive(52")	1	57	322-7	Screw, 5/16-18 x 1 1/2	4
	1-603306	Belt, deck drive(60")	1	58	1-303334	Washer, 5/16 disc spring	4
15	103-0662	Clutch w/plastic tie	1	59	1-800016	Bolt, tap 5/16-18 x 1 1/4	2
16	1-633543-03	Strap, clutch	1	60Φ	323-12	Screw, 3/8-16 x 2 1/2	1
17	1-323195	Standoff, clutch	1	61	3253-5	Washer, lock 3/8 heavy	1
18	1-303287	Plastic tie, small	1	62	1-373034	Washer, pivot	1
19	103-1167	Joint, .38x.38FE LH ball end	2	63	3231-29	Screw, 3/8-16 x 1 3/4	1
20•	1-653035	Sheave, 4 1/4 O.D	1	64	1-806003	Hairpin, cotter	2
21	1-413010	Sheave, Pump	2	65	1-808280	Clevis pin	2
22	1-807272	Key, 5mm sq x 25mm	2	66	3256-23	Washer, 5/16	11
23Φ	1-803050	Setscrew, 5/16-18 x 3/4	4	67	1-403180	Screw, 5/16-18x1-3/8 special	2
24	1-603843	Pulley, idler	1	68	1-603903	Spacer	1
25	1-603496	Bushing, idler	1	69	3219-2	Nut 5/16-24 regular	7
26	1-602521	Idler arm w/bushings	1	70	3220-2	Nut, 5/16-24 jam	2
	1-602458	Idler arm weldmt	1	71	3256-2	Washer, 1/4	2
27	1-603044	Bushing, idler pivot	1	72	323-8	Screw, 3/8-16 x 1 1/2	2
28	1-603402	Spring, extension	1	73	322-6	Screw, 5/16-18 x 1-1/4	2
29	1-513034	Bearing, pivot	2	74	1-805005	Washer, lock 5/16 heavy	4
30	302-19	Zerk, grease 1/4-20	3	75Φ	1-809056	Screw, 3/8 x 3/8 sckt hd shld.	2
31	1-633102	Bearing, flanged	2	76	3256-24	Washer, 3/8 SAE flat	3
32	1-613206	Rod, control arm	2	77	3234-12	Screw, whizlock 3/8-16 x3/4 .	8
33	1-323245	Spring	1	78	1-633630	Grommet	2
34	1-603676	Swivel	2	79	103-1576	Rod, drive lever	2
35	1-413151	Knob, tracking	1	80Φ	1-803022	Setscrew, 5/16-18 x 5/8	2
36	103-2964-01	Support, tank/handle	1	81	3272-5	Cotter pin	2
37	103-1561-01	Arm, control LH	1	82	1-303335	Plastic tie (large)	1
38	103-1562-01	Arm, control RH(not shown) .	1	83	103-2224	Shield, drag	1
39	1-613271	Belt, hyd trans drive ("A" Belt).	1	84	3256-3	Washer, flat 5/16 std	3
40	1-603693	Spring, extension	2	85	3220-16	Nut, jam 3/8-24 LH	2
41	103-2234-01	Crank weldmt	1				

Exmark black touch up spray paint - Gloss black

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

* Use Teflon Pipe Sealant or equivalent on threads.

• Install sheave with long end of hub up.

Φ Use Pro-Lock, Nut type P/N 1-840022 (.5cc tube) on setscrew threads, shoulder bolt threads, clutch retaining bolt, and pump drive idler bolt.

Kohler Replacement Parts List

(Refer to Engine Owner's Manual)

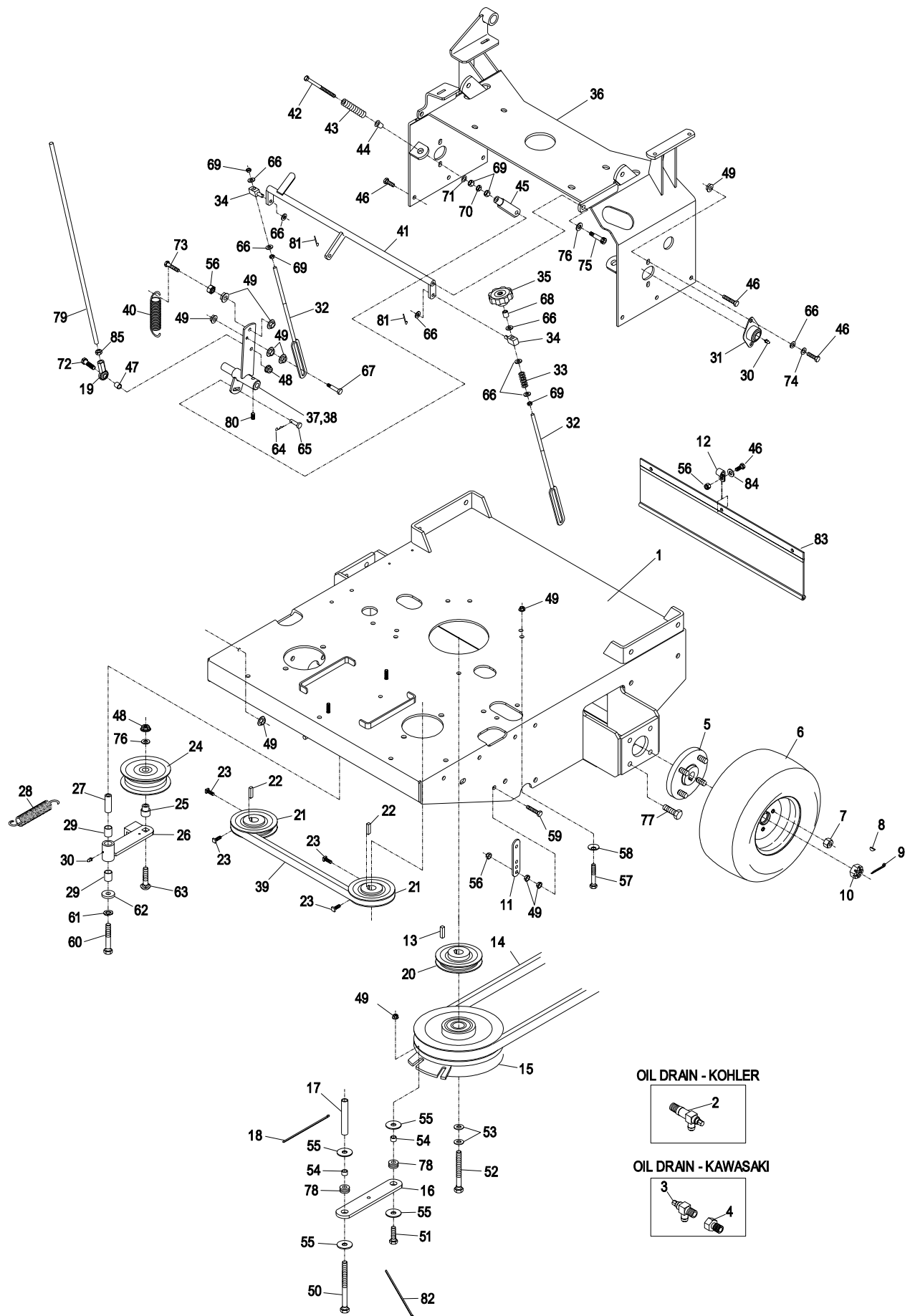
Description	Kohler Part No.
Air Filter Element - Outer	2508301-S
Air Filter Element- Inner	2508304-S

Kawasaki Replacement Parts List

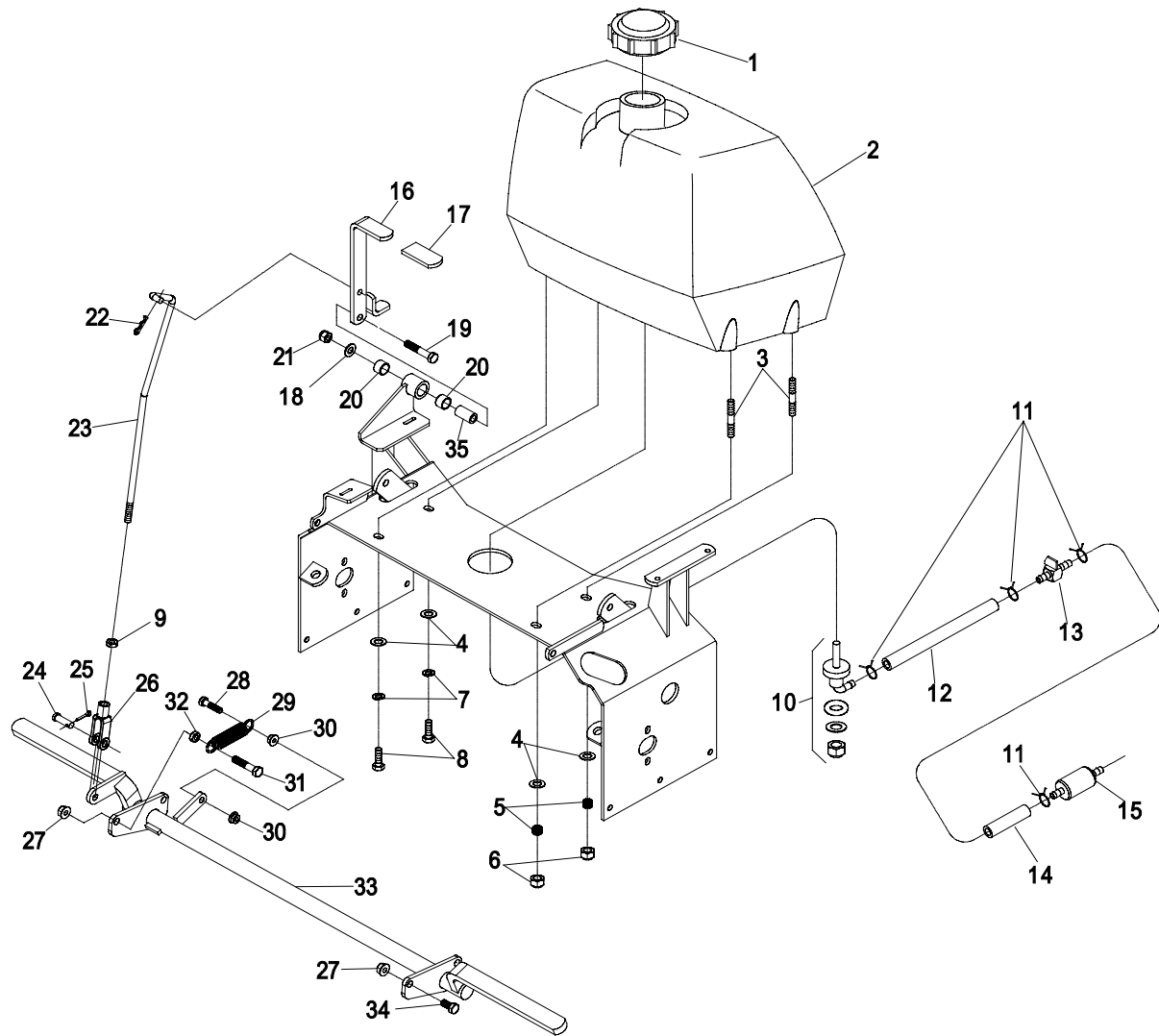
(Refer to Engine Owner's Manual)

Description	Kawasaki Part No.
Air Filter Element Kit	11010-7004
(Inner & Outer)	

ENGINE DECK GROUP



ENGINE DECK GROUP (cont'd)

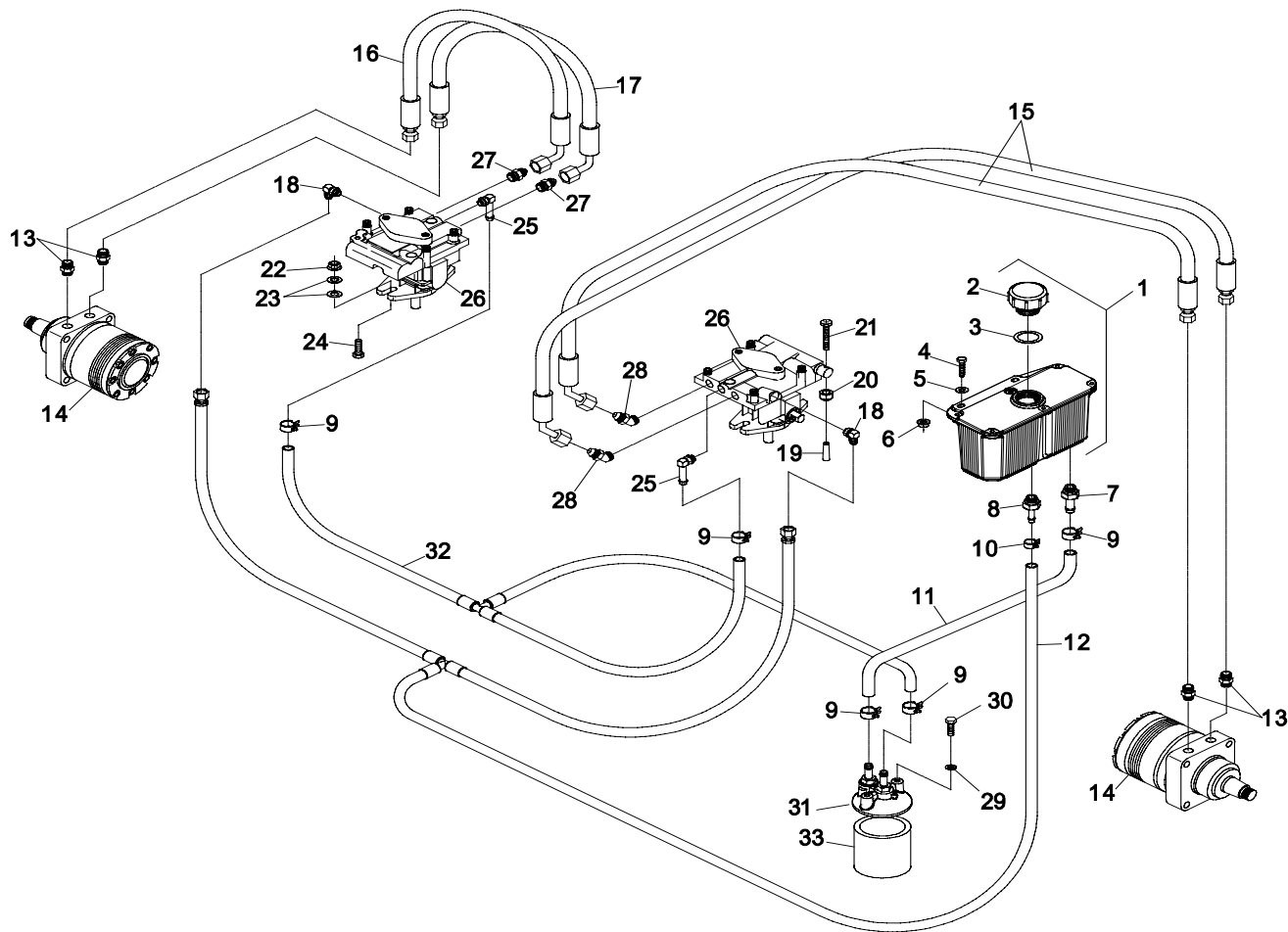


Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-2107	Cap, gas	1	17	1-303020	Grip, lever	1
2	103-1929	Gas tank	1	18	3256-24	Washer, 3/8 SAE flat	1
3∇	1-633023	Stud, fuel tank	2	19	323-10	Screw, 3/8-16 x 2	1
4	3256-23	Washer, flat 5/16 std	4	20	1-413347	Sleeve, bushing	2
5	1-633349	Spring, fuel tank	2	21	3296-39	Nut, 3/8-16 nyloc	1
6	3296-47	Nut, nylock 5/16-18	2	22	1-806003	Hairpin, cotter	1
7	1-805005	Washer, 5/16 lock	2	23	103-1951	Linkage, park brake	1
8	322-3	Screw, 5/16-18 x 3/4	2	24	1-808285	Pin, clevis 3/8 x 1 1/8	1
9	3220-3	Nut, 3/8-24 jam	1	25	3272-10	Pin, cotter 1/8 x 3/4	1
10●	103-2605	Fitting, fuel bulkhd w/ screen....	1	26	1-633131	Yoke, brake linkage	1
11	1-303077	Clamp, fuel line	4	27	3290-357	Nut, 3/8-16 whizlock	4
12	1-543649	Hose, fuel 7.0 (Kaw).....	1	28	322-6	Screw, 5/16-18 x 1 1/4.....	1
	1-303022	Hose, fuel 8.5 (Koh).....	1	29	1-323161	Spring	1
13	1-603770	Valve, fuel	1	30	32128-20	Nut, 5/16-18 whizlock	2
14	1-603776	Hose, fuel 2.5 (Koh).....	1	31	323-9	Screw, 3/8-16 x 1 3/4.....	1
	1-303022	Hose, fuel 8.5 (Kaw).....	1	32	3218-3	Nut, jam 3/8-16.....	1
15	Kohler Part No. 2405002 fuel filter		1	33	103-2205-03	Brake weldmt.....	1
	Kawasaki Part No. 49019-7001 fuel filter.....		1	34	323-4	Screw, 3/8-16 x 3/4	3
16	103-3423	Lever, Prk Brk 103-2208-03 w/ decal	1	35	1-413344	Bushing, pivot.....	1

Exmark black touch up spray paint - Gloss black

- Use Pro-Lock, Nut type P/N 1-840022 (.5cc tube) on Fuel Fitting threads
- ∇ Use Pro-Lock, Retaining type P/N 1-840023 (.5cc tube) on Fuel Tank Studs where studs are inserted into tank.

HYDRAULICS GROUP



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-1947	Asm, hydraulic reservoir.....	1	18	1-513840	Elbow, 90°	2
2	103-1948	Cap, hydraulic reservoir	1		1-603921	O-Ring.....	1
3	103-1949	Gasket, reservoir cap	1	19	1-613073	Grip, Dump Valve	2
4	321-6	Screw, 1/4-20 x 1	2	20	3296-42	Nut, nylock 1/4-20	2
5	3256-22	Washer, 1/4 SAE flat.....	2	21	1-801063	Screw, 1/4-20 x 2 pan hd	2
6	32128-33	Nut, whizlock 1/4-20.....	2	22	3290-357	Nut, whizlock 3/8-16	4
7	103-1912	Adapter, straight.....	1	23	3256-3	Washer, 5/16 std	8
	1-603921	O-Ring	1	24	323-7	Screw, 3/8-16 x 1-1/4	4
8	103-1801	Adapter, straight.....	1	25	1-603989	Elbow, 90°	2
	1-603921	O-Ring	1		1-603923	O-Ring.....	1
9	103-1988	Clamp, hose (11/16)	5	26	1-613042	Pump, hydro	2
10	103-1716	Clamp, hose (17/32)	1		2513018	Kit, overhaul seal	1
11	103-2958	Hose, Charge.....	1	27	1-603990	Adapter, straight thread	2
12	103-1962	Asm, case drain hose	1		1-603920	Boss O-Ring	1
13	1-603991	Fitting, straight connector.....	4		1-603992	Flare O-Ring.....	1
	1-603919	Boss O-Ring.....	1	28	1-523221	Elbow, 45.....	2
	1-603992	Flare O-Ring	1		1-603920	Boss O-Ring	1
14	1-603718	Motor, wheel	2		1-603992	Flare O-Ring.....	1
	1-000119	Kit, seal.....	1	29	1-805004	Washer, 1/4 Lock	2
	1-000138	Kit, bearing.....	1	30	321-3	Screw, 1/4-20 x 5/8	2
15	1-603981	Hose, hydro (RH)	2	31	103-2889	Asm, Filter head	1
16	1-613034	Hose, hydro (LH).....	1	32	103-1961	Asm, charge hose	1
17	1-323241	Hose, hydro (LH).....	1	33	1-513211	Element, oil filter	1
				Δ	1-523541	Element, oil filter(winter)	1

Exmark black touch up spray paint - Gloss black

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

ECS UPPER HANDLES & CONTROLS

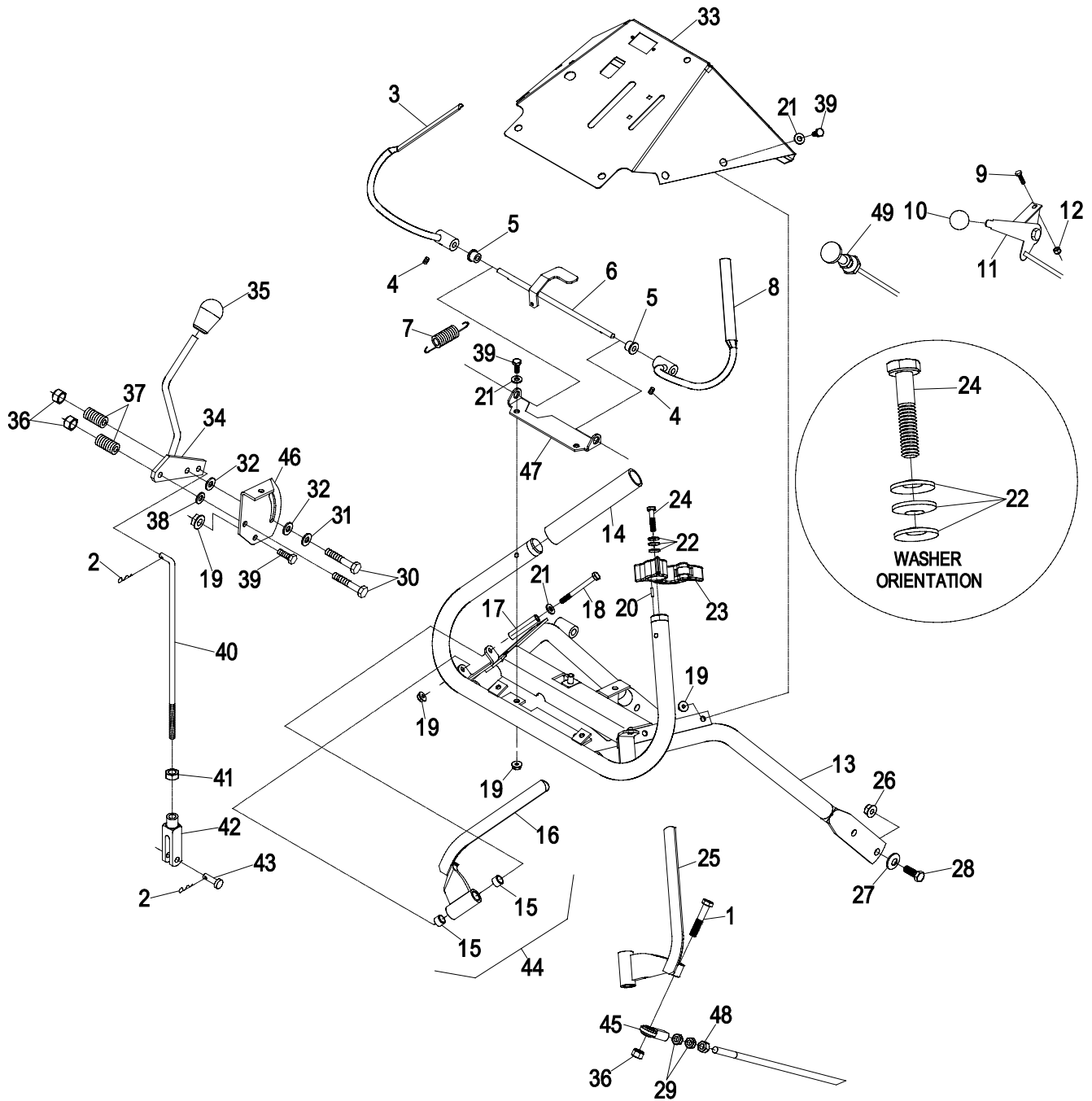
Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	322-9	Screw, 5/16-18 x 1 3/4	2	26	3290-357	Nut, 3/8-16 whizlock	4
2	1-806003	Hairpin cotter	2	27	98-5975	Washer, 3/8 disc spring	4
3∇	103-1566-03	Lever weldmt opc LH	1	28	323-6	Screw, 3/8-16 x 1	4
4♦	1-803322	Setscrew, 5/16-24 x 5/16...	2	29	3220-3	Nut, jam 3/8-24	4
5	1-303365	Bushing, nylon	2	30	322-10	Screw, 5/16-18 x 2	2
6	103-0769-03	Lever axle weldmt, opc	1	31	1-603716	Washer, friction disc	1
7	1-303363	Spring, opc extension	1	32	1-323244	Washer, friction	2
8∇	103-1567-03	Lever weldmt, opc RH	1	33	103-1552	Console 103-1538-03 w/ decals ..	1
9	1-807513	Bolt, #10-24 x 1/2 carriage	2	34	103-0773	Speed shift weldmt	1
10	1-513592	Knob, red throttle	1	35	103-0423	Knob .38-16 nyloc	1
11	1-633696	Cable, throttle	1	36	3296-29	Nut, 5/16-18 nyloc	4
12	3296-2	Nut, #10-24 nylock	2	37	1-323245	Spring, compression	2
13	103-1537-03	Handle wld, upper ecs	1	38	3256-23	Washer 5/16 SAE flat	1
14	103-0815	Grip, handle bar	2	39	321-3	Screw, 1/4-20 x 5/8	10
15	1-413152	Bearing	4	40	1-413225	Rod, speed control	1
16	103-2466-03	Lever, drive LH	1	41	3220-2	Nut, 5/16-24 jam	1
17	103-0027	Bushing, drive lever	2	42	1-303105	Yoke	1
18	321-14	Screw, 1/4-20 x 2 3/4	2	43	1-808280	Clevis pin 5/16 x 1	1
19	32128-33	Nut, 1/4-20 whizlock	12	44	103-2513	Asm, Drive Lever RH	1
20	103-0464	Pin, 1/8 x 1/2 spring	2		103-2514	Asm, Drive Lever LH	1
21	3256-22	Washer 1/4 SAE flat	10	45	103-2463	Joint, .31 ball end	2
22	1-303435	Washer, 1/4 disc spring	6	46	103-0503	Bracket, shifter slide	1
23	103-1371	Thumb latch asm RH (shown)	1	47	103-0489-03	Bracket, opc axle	1
	103-1372	Thumb latch asm LH	1	48	3219-3	Nut, reg hex 3/8-24	2
24♦	103-0235	Screw, 1/4-20 x 1-1/8 w/nylon	2	49	1-603336	Choke control push/pull	1
25	103-2465-03	Lever, drive RH	1				

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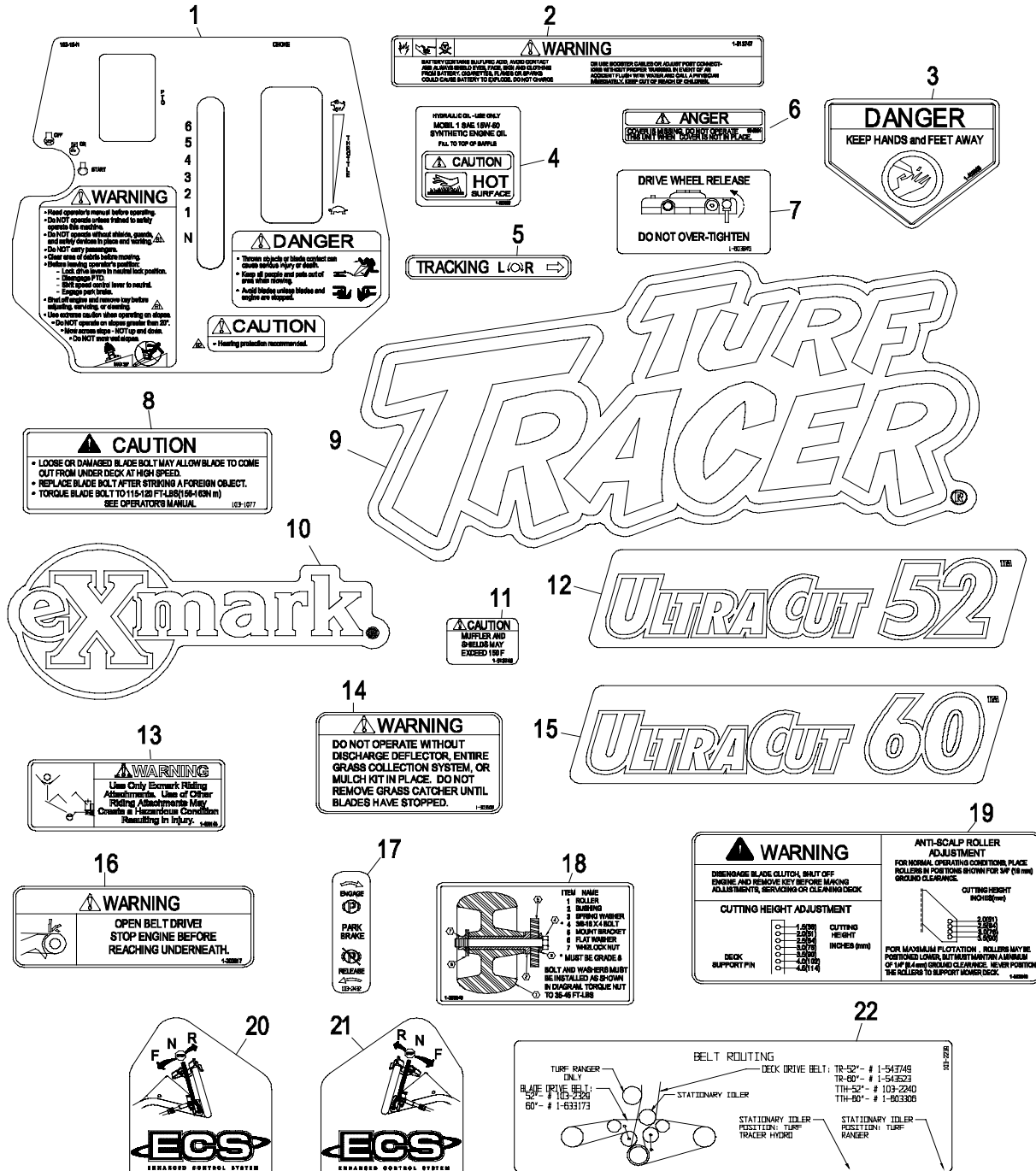
♦ Use Pro-Lock nut type, Part no. 1-840022 (.5cc tube) on setscrew threads and thumb latch screw threads.

∇ Use Pro-Lock retaining type, Part no. 1-840023 (.5cc tube) on inside of bore of OPC hub.

ECS UPPER HANDLES & CONTROLS

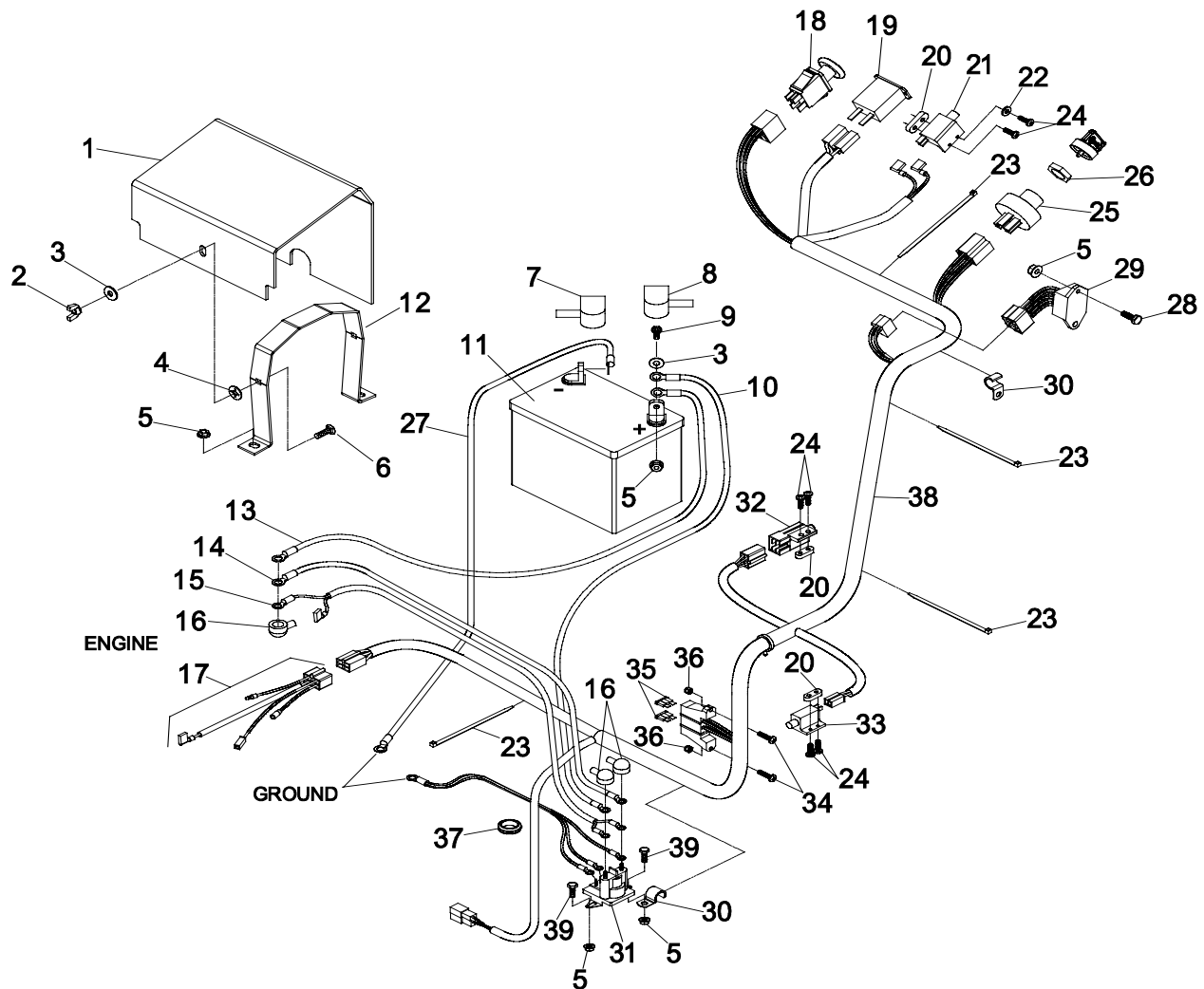


DECALS



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-1541	Decal, Console ECS	1	13	1-403143	Decal, Sulky Warning.....	1
2	1-513747	Decal, Battery.....	1	14	1-303508	Decal, Discharge Warning .	1
3	1-403005	Danger Label.....	2	15	103-1146	Decal, Ultracut 60	1
4	1-523552	Decal, Hydraulic Tank	1	16	1-303517	Decal, Belt Drive	1
5	1-413214	Decal, Tracking.	1	17	103-2432	Decal, Park Brake	1
6	98-5954	Decal, Missing Cover	3	18	1-323540	Decal, Roller Mounting	1
7	1-603845	Decal, Drive Wheel Release 1		19	1-553049	Decal, Mower Deck.....	1
8	103-1077	Decal, Bolt Torque.	1	20	103-2242	Decal, LH ECS Instruction .	1
9	103-3013	Decal, Turf Tracer	1	21	103-2243	Decal, RH ECS Instruction	1
10	103-2882	Decal, Exmark logo	1	22	103-2239	Decal, Belt Route	1
11	1-513746	Decal, Muffler	1		103-2551	Kit, Decal Complete	
12	103-1145	Decal, Ultracut 52.....	1				

ELECTRICAL GROUP



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-3424	Cover, Battery (1-603105) w/ decal .	1	22	3256-14	Washer, Flat #10.....	1
2	1-803038	Wingnut, 1/4-20	2	23	1-303335	Plastic tie.....	1
3	3256-2	Washer, 1/4 Flat	4	24	3290-500	Screw, #10-24x5/8	6
4	1-803037	Nut, retaining 1/4-20	2	25	1-543070	Switch, ignition w/keys	1
5	32128-33	Nut, whizlock 1/4-20	9		1-603511	Key, ignition	1
6	1-807512	Bolt, carriage 1/4-20 x 3/4.....	2		103-2106	Key, Exmark logo	1
7	1-543390	Insulator, Battery -	1	26	103-0498	Nut, Ignition.....	1
8	1-543391	Insulator, Battery +	1	27	1-543767	Wire, Ground.....	1
9	321-4	Screw, 1/4-20 x 3/4.....	2	28	321-3	Screw, 1/4-20 x 5/8	3
10▲	1-513053	Wire, battery to solenoid (+)	1	29	1-613198	Module, Safety Interlock.....	1
11	103-0293	Battery, 12V manifold	1	30	103-1193	Clip, Loom half	2
12	1-603814-03	Strap, battery holddown.....	1	31	1-513075	Switch, 12V solenoid	1
13❖	1-523281	Wire, battery to starter	1	32	1-633111	Switch, N.O./N.C.	1
14▲	1-603488	Wire, solenoid to starter (+)	1	33	1-513152	Switch, N.C.	1
15❖	103-1126	Harness, solenoid to starter.....	1	34	1-803075	Screw, #10-24 x 3/4	2
16	1-543393	Insulator, solenoid.....	3	35	1-816001	Fuse, blade 20 amp	2
17▲	1-613262	Harness, wire	1	36	3296-2	Nut, nyloc #10-24	2
18	1-633673	Switch, PTO.....	1	37	1-543286	Grommet.....	1
19	1-513374	Meter, engine hour.....	1	38	103-1540	Harness, wire	1
20	1-633181	Plate, tapped	3	39	321-2	Screw, 1/4-20 x 1/2	2
21	1-513051	Switch, N.O.	1				

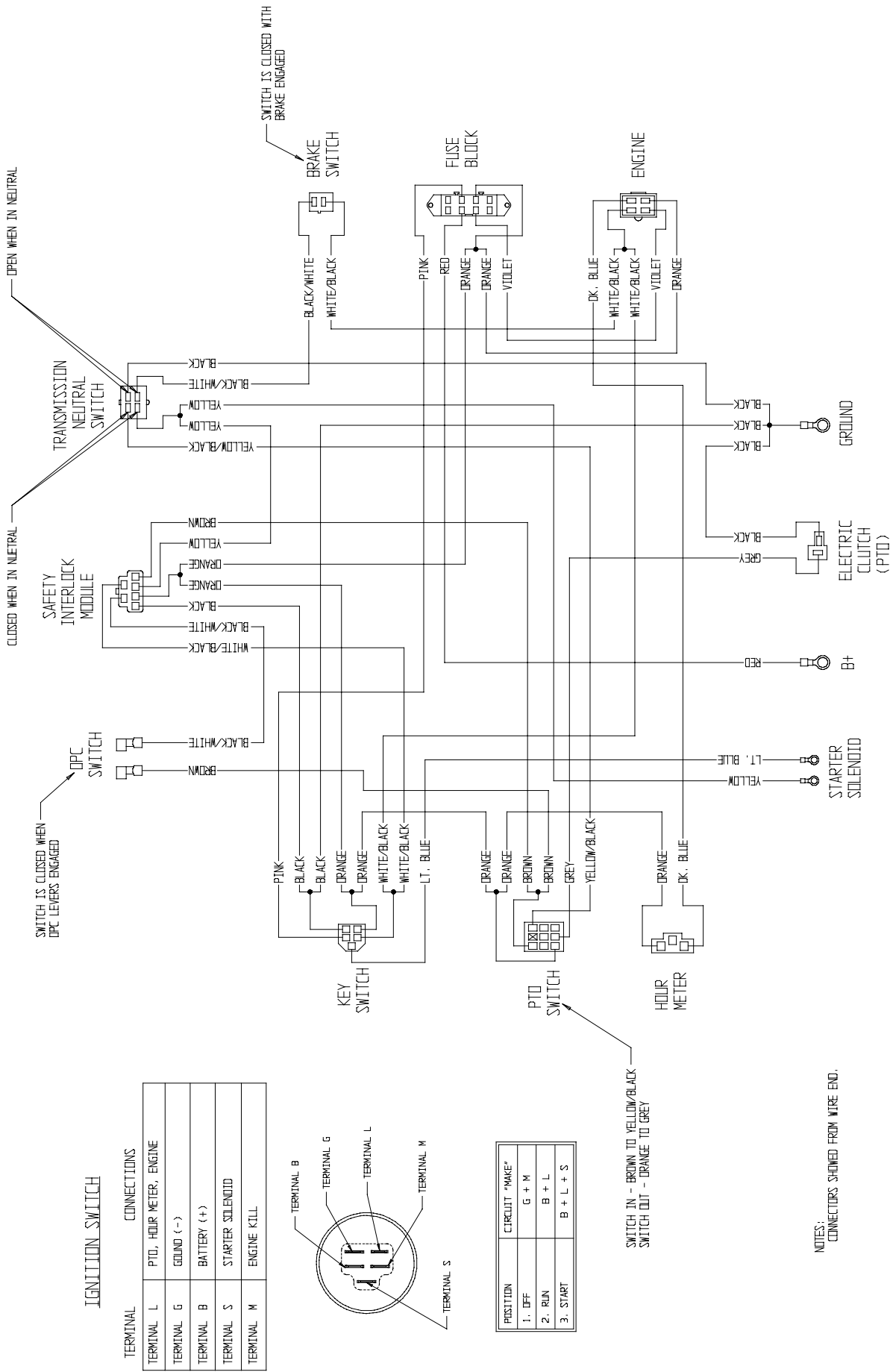
❖ Kohler units only.

▲ Kawasaki units only.

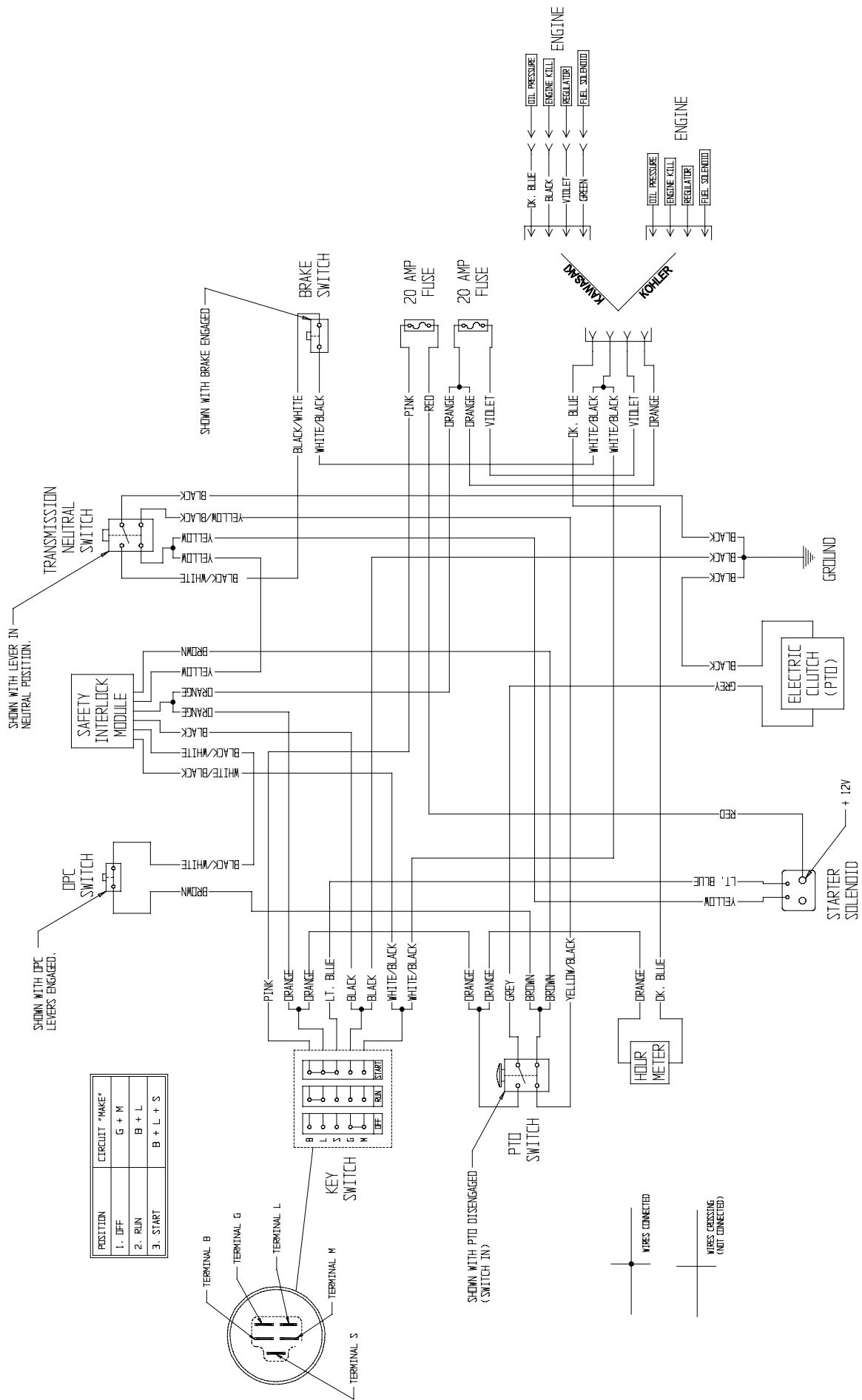
Apply dielectric grease to all electrical connectors

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ELECTRICAL DIAGRAM



ELECTRICAL LOGIC SCHEMATIC



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