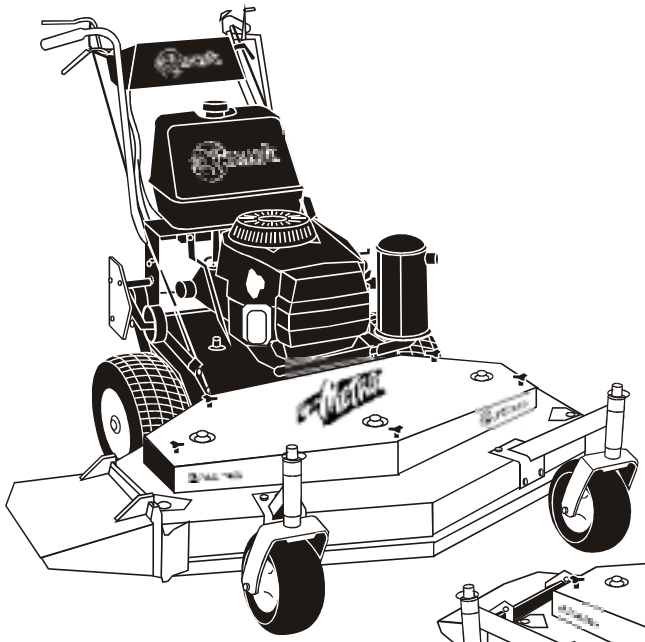
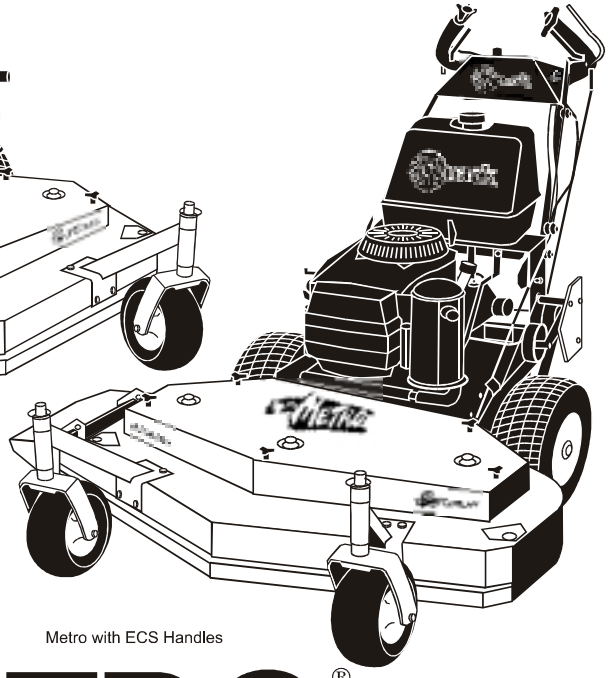
For Serial Nos. 320,000 & Higher

eXmark® MFG. CO. INC.

PARTS MANUAL



Metro with Pistol Grip Handles



Metro with ECS Handles

METRO®

CONGRATULATIONS on the purchase of your new Exmark mower. This product has been carefully designed and manufactured to give you a maximum amount of dependability and years of trouble-free operation. If additional information is needed, or should you require trained mechanic service, contact your authorized Exmark equipment dealer or distributor. If you need to order replacement parts from your dealer, always give the model number and serial number of your mower as well as the part number, description and quantity of the part needed.

The Serial No. plate is located on the top front engine frame on the right hand side of the machine. 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 _____

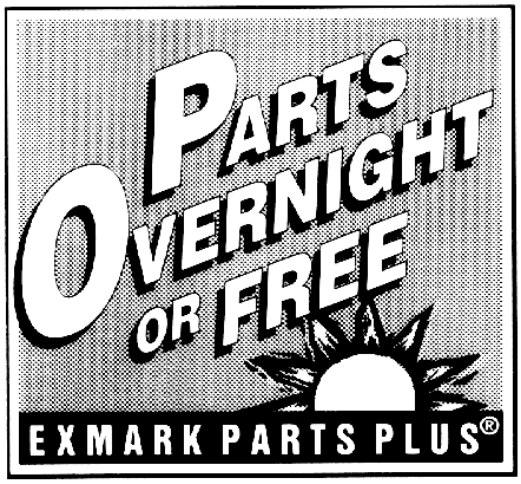
Part No. 103-1622 Rev B

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 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.

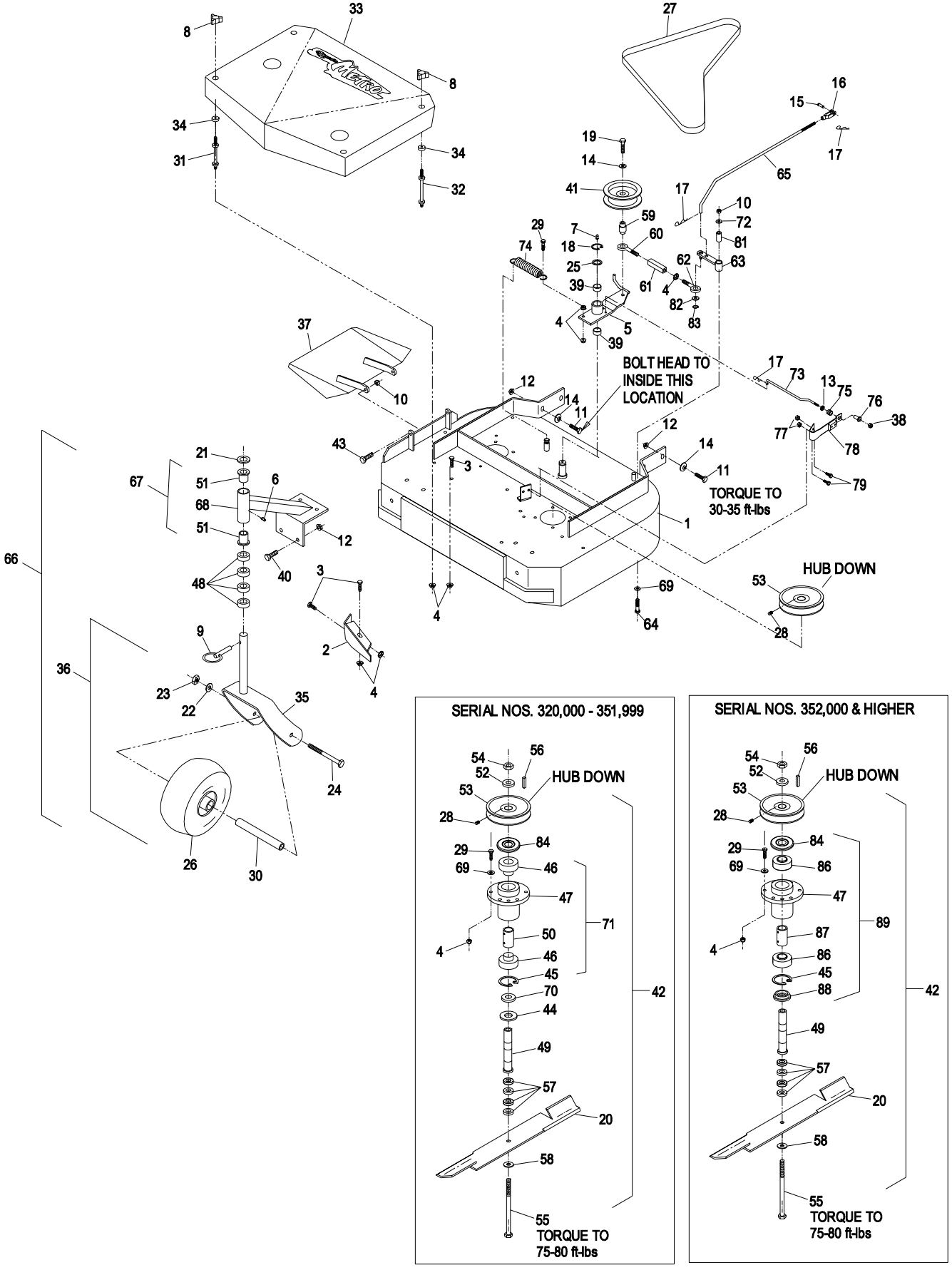
⚠ WARNING

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

TABLE OF CONTENTS

Description	Page
Decals	14
Engine Deck Group	6 - 9
48" Mower Deck	4 - 5
32" and 36" Mower Deck	2 - 3
Upper Handles & Controls, ECS	12 - 13
Upper Handles & Controls, Pistol Grip	10 - 11
Wiring Diagrams	15

32” and 36” MOWER DECK



32” and 36” MOWER DECK

Ref. No.	Part No.	Description	Qty. Req'd.
1	103-2312	Deck (103-2307-01) w/decals & dogleg(36")	1
	103-2313	Deck (103-2301-01) w/decals & dogleg (32")	1
2	1-302189-01	Baffle wldmnt, dogleg	1
3	322-2	Screw, 5/16-18 x 5/8	7
4	32128-20	5/16-18 Whizlock nut	22
5	1-324408	Engagmt. arm w/bushing(32&36”)	1
6	302-52	Grease Zerk, 1/8 NPT straight	2
7	302-19	Grease Zerk, 1/4-28 straight	1
8	1-323385	Knob, belt cover	4
9	1-809020	Quick pin, 10" caster	2
10	3296-29	5/16-18 Nyloc hex nut	3
11	323-8	3/8-16 x 1 1/2 HH capscrew	6
12	3290-357	3/8-16 whizlock nut	14
13	1-323748	Ring, push-on 7/16	1
14	98-5975	3/8 Disc spring washer	7
15	1-808280	5/16 x 1 Clevis pin	1
16	1-303105	Yoke	1
17	1-806003	Cotter hairpin	3
18	32151-103	E-Ring for .875 rd.	1
19	702809	3/8-16 x 1 7/8 capscrew	1
20	103-2528	Blade, Notched (36")	2
•	103-2518	Blade, Mulching (36")	2
	103-2508	Blade, Low Lift (36") optional	2
	103-1578	Blade, Solid (36")	2
	103-2527	Blade, Notched (32")	2
•	103-2517	Blade, Mulching (32")	2
	103-2507	Blade, Low Lift (32”) optional	2
	103-1577	Blade, Solid (32")	2
21	1-513338	Washer, special	2
22	3253-7	1/2 spring lockwasher	2
23	3217-9	1/2-13 Hex nut	2
24	325-20	1/2-13 x 6 HH capscrew	2
25	1-303352	Washer, spindle	1
26	103-1224	Tire & Wheel Asm	2
	1-513809	Roller bearing	1
	103-2170	Bushing	2
27	1-323733	Drive belt (to blades) 36" Model	1
	1-323734	Drive belt, (to blades) 32" Model	1
28♦	1-803310	Setscrew, 5/16-18 x 3/8	2
29	322-6	5/16-18 x 1 1/4 HH capscrew	9
30	103-2169	Spacer, front caster	2
31	1-303537	Stud, belt shield (short)	2
32	1-303536	Stud, belt shield (long)	2
33	1-324208	Shield (1-302213-01) w/decals, 36"	1
	1-324194	Shield (1-322149-01) w/decals, 32"	1
34	1-323417	Washer, belt cover mount	4
35	1-322145-01	Fork wldmnt, caster	2
36	103-1236	Caster wheel assembly	2
37	1-302233-01	Chute	1
38	3296-56	Nut,nyloc ¼-20 thin	1
39	1-323729	Powder metal bearing	2
40	323-4	3/8-16 x 3/4 HH capscrew	8

Ref. No.	Part No.	Description	Qty. Req'd.
41	1-603843	Idler pulley (heavy duty)	1
42	103-2555	Cutter Housing Complete	2
43	322-5	5/16-18 x 1 HH capscrew	2
44	1-633573	Guard, bottom	2
45	32120-8	Retaining ring	2
46✚	1-513016	Bearing	4
47	1-323532	Cutter housing	2
48	1-303314	Spacer, 10” caster	8
49✚	1-323529	Tube, spindle	2
50	1-323528	Spacer	2
51	1-303514	Flange , thrust bearing	4
52	1-323339	Retaining washer, sheave	2
53✚	1-403183	Pulley	2
54	3219-6	5/8-18 UNF hex nut	2
55	1-800861	5/8-18 x 8 HH Capscrw (Gr 5)	2
56	1-807267	Key, 1/4 x 3/16 x 1 1/4	2
57	1-323539	Spacer, blade drive	8
58	1-513208	5/8 Spring disc washer	2
59	1-303434	Engagement bushing	1
60	1-303348	Eye bolt (left hand thread)	1
61	1-303236	Turnbuckle body	1
62	1-303238	Eye bolt (right hand thread)	1
63	1-322235	Assist arm (32” & 36”)	1
64	322-10	Screw, 5/16-18 X 2	1
65	1-323303	Assist arm linkage	1
66✧	103-1238	Caster/mount, complete	2
▲	103-2281	Caster/mount, complete	2
67✧	1-302203	Caster whl support w/bearings	2
▲	103-2296	Caster whl support w/bearings,weighted	2
68✧	1-302194-01	Caster whl support wldmnt	2
▲	103-2297-01	Caster whl support wldmnt,weighted	2
69	1-303334	5/16 Spring disc washer	9
70	1-323533	Spacer	2
71✲		Housing w/Brg, Spacer and Ring	2
72	3256-3	Wshr, flat std 5/16	1
73	1-323715	Rod, brake 36”	1
	1-323718	Rod, brake 32”	1
74	1-323071	Spring	1
75	1-323747	Spring, compression	1
76	1-323746	Spacer, flanged	1
77	3296-42	Nut, nyloc ¼ - 20	2
78	1-324372	Pad/spring assy	1
79	321-4	Screw, HHCap ¼-20 X 3/4	2
81	1-403179	Tube, pivot	1
82	3256-23	Wshr, flt SAE 5/16	1
83	32120-35	E-ring	1
84	103-1330	Guard,Bearing top	2
85☆	103-2171	Kit,semi-pneumatic whl replacement	2
86✚	103-2477	Bearing	4
87	103-2534	Spacer	2
88	103-2535	Spacer	2
89	103-2547	Cutter housing assembly	2

♦ Use Pro-lock Nut Type (p/n 1-840022 .5 ml tube) on the setscrews

• Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N’s MK322(32”) or MK362(36”)

☆ 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.

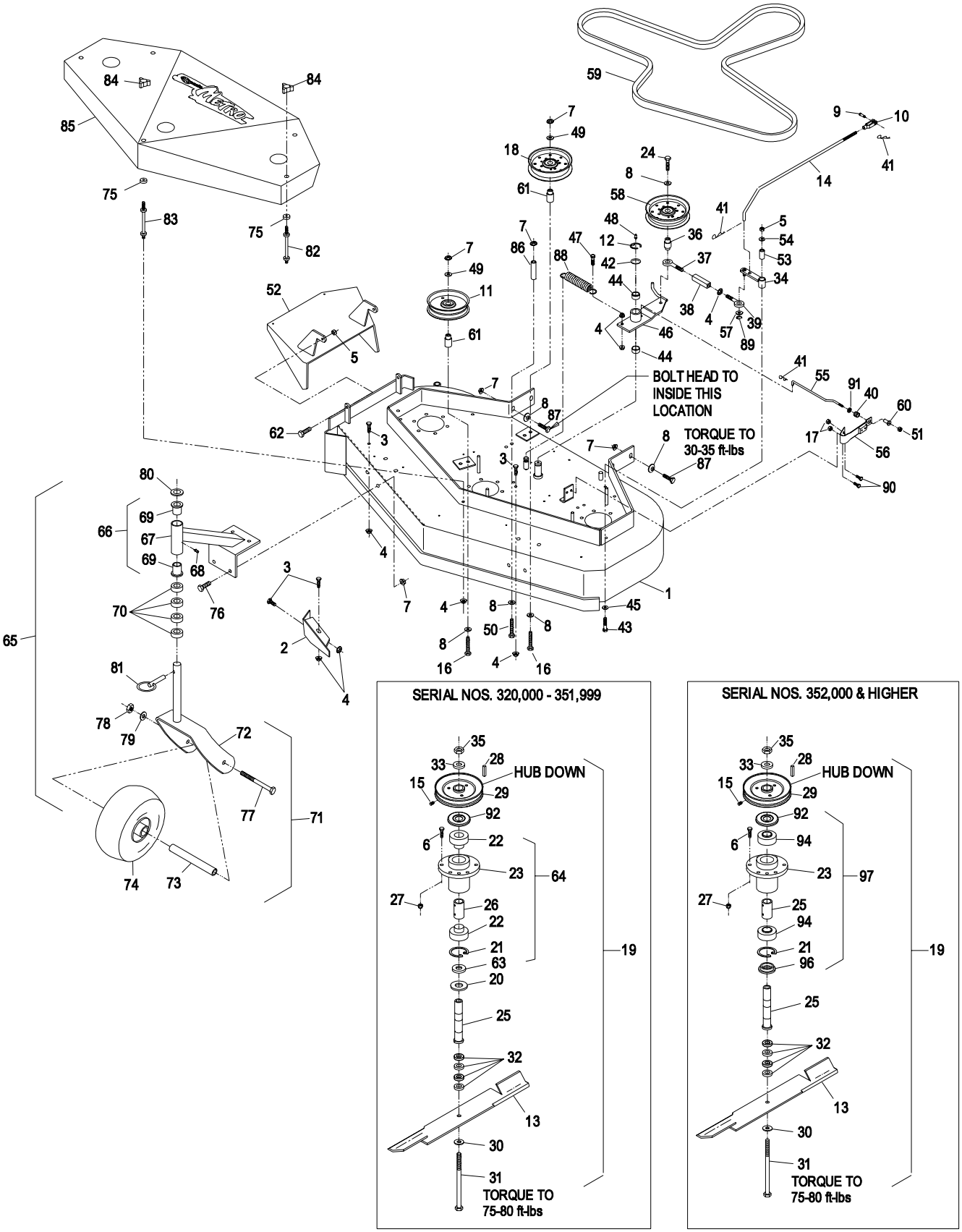
▲ Models with ECS handles only

✧ Models with Standard pistol grip handles only

✚ Apply Mobil HTS grease (or a food-grade antisieze) between the spindles & bearings and spindles & sheaves.

✲ This assembly now serviced by 103-2547.
Emark red touch up spray paint - P/N 1-850337

48” MOWER DECK



48" MOWER DECK

Ref. No.	Part No.	Description	Qty. Req'd.
1	1-404257	Deck (1-402108-01)w/decals & dogleg	1
2	1-402107-01	Baffle, dogleg	1
3	322-2	5/16-18 x 5/8 HH capscrew	4
4	32128-20	5/16-18 Whizlock nut	12
5	3296-29	5/16-18 Nyloc hex nut	3
6	323-7	3/8-16 x 1 1/4 HH capscrew	18
7	3290-357	3/8-16 whizlock nut	17
8	98-5975	3/8 disc spring washer	10
9	1-808280	5/16 x 1 Clevis pin	1
10	1-303105	Yoke	1
11	1-613098	Idler pulley "V"	1
12	32151-103	E-Ring for .875 rd.	1
13	103-2527	Blade, Notched (48")	3
•	103-2517	Blade, mulching (48")	3
	103-2507	Blade, Low Lift (48") optional	3
	103-1577	Blade, Solid (48")	3
14	1-323303	Assist arm linkage	1
15♦	1-803310	Setscrew, 5/16-18 x 3/8	3
16	323-13	3/8-16 x 2 3/4 HH capscrew	2
17	3296-42	Nut, nyloc ¼ - 20	2
18	1-403186	Idler pulley	1
19	103-2555	Cutter Housing Complete	3
20	1-633573	Guard, bottom	3
21	32120-8	Retaining ring	3
22✚	1-513016	Bearing	6
23	1-323532	Cutter housing	3
24	702809	3/8-16 x 1 7/8 HH Capscrew	1
25✚	1-323529	Cutter spindle tube	3
26	1-323528	Spacer	3
27	3296-39	Nut, nylock 3/8-16	18
28	1-807267	Key, 1/4 x 3/16 x 1 1/4	3
29✚	1-403183	Pulley	3
30	1-513208	5/8 Spring disc washer	3
31	1-800861	5/8-18x8 HH Capscrew(Gr5)	3
32	1-323539	Spacer, blade drive	12
33	1-323339	Washer, retainer (sheave)	3
34	1-322230	Assist arm (48")	1
35	3219-6	5/8-18 UNF hex nut	3
36	1-303434	Engagement bushing	1
37	1-303348	Eye bolt (left hand thread)	1
38	1-303236	Turnbuckle body	1
39	1-303238	Eye bolt (right hand thread)	1
40	1-323747	Spring, compression	1
41	1-806003	Cotter hairpin	3
42	1-303352	Washer, spindle	1
43	322-10	Screw, 5/16-18 X 2	1
44	1-323729	Powder metal bearing	2
45	1-303334	Washer, Spring Disc 5/16	1
46	1-402109	Engagement. arm w/bushings (48")	1
47	322-6	5/16-18 1 1/4 HH capscrew	1
48	302-19	Zerk 1/4-28 strt	1
49	3256-24	3/8 Flatwasher	2
50	323-20	3/8-16 x 3 1/4 HH capscrew	1
51	3296-56	Nut, nyloc ¼-20 thin	1
52	1-402106-01	Chute wldmt	1
53	1-403179	Tube, pivot	1
54	3256-3	Washer, Flat Std 5/16	1
55	1-323714	Rod brake 48" LH	1
56	1-324372	Pad/spring assy	1
57	3256-23	5/16 SAE flat washer	1
58	1-603843	Pulley, idler (heavy duty)	1
59	1-403174	Drive belt (main deck) 48"	1
60	1-323746	Spacer, flanged	1
61	1-403184	Bushing	2
62	322-5	5/16-18 x 1 HH capscrew	2
63	1-323533	Spacer	3
64✲		Housing w/Brg, Spacer and Ring	3
65■	103-1238	Caster/mount, complete	2
✧	103-2281	Caster/mount, complete	2
66■	1-302203	Caster whl support w/bearings	2
✧	103-2296	Caster whl support w/bearings,weighted	2
67■	1-302194-01	Caster wheel support wldmnt	2
✧	103-2297-01	Caster wheel support wldmnt,weighted	2
68	302-52	Grease zerk, 1/8 N.P.T.	2
69	1-303514	Flange, thrust bearing	4
70	1-303314	Spacer, 10" caster	8
71	103-1236	Caster wheel assembly	2
72	1-322145-01	Fork wldmnt, caster	2
73	103-2169	Spacer, front caster	2
74	103-1224	Tire & Wheel Asm	2
	1-513809	Roller bearing	2
	103-2170	Bushing	4
75	1-323417	Washer, belt cover mount	5
76	323-4	3/8-16 x 3/4 HH capscrew	8
77	325-20	1/2-13 x 6 HH capscrew	2
78	3217-9	1/2-13 Hex nut	2
79	3253-7	1/2 spring lockwasher	2
80	1-513338	Washer, special	2
81	1-809020	Quick pin, 10" caster	2
82	1-303537	Stud, belt shield (short)	2
83	1-303536	Stud, belt shield (long)	3
84	1-323385	Knob, belt cover	5
85	1-404238	Shield (1-402100-01)w/decals 48"	1
86	1-403188	Spacer, belt guide	1
87	323-8	3/8-16 x 1 1/2 HH capscrew	6
88	1-323071	Spring 5sp/dr idler	1
89	32120-35	E – ring	1
90	321-4	1/4-20 X 3/4 HH capscrew	2
91	1-323748	Ring, push-on 7/16	1
92	103-1330	Guard,Bearing top	3
93☆	103-2171	Kit,semi-pneumatic whl replacement	1
94✚	103-2477	Bearing	3
95	103-2534	Spacer	3
96	103-2535	Spacer	3
97	103-2533	Housing, w/brg, spacer, and ring	3

♦ Use Pro-lock Nut Type (p/n 1-840022 .5 ml tube) on the setscrews

• Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N's MK483

☆ 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.

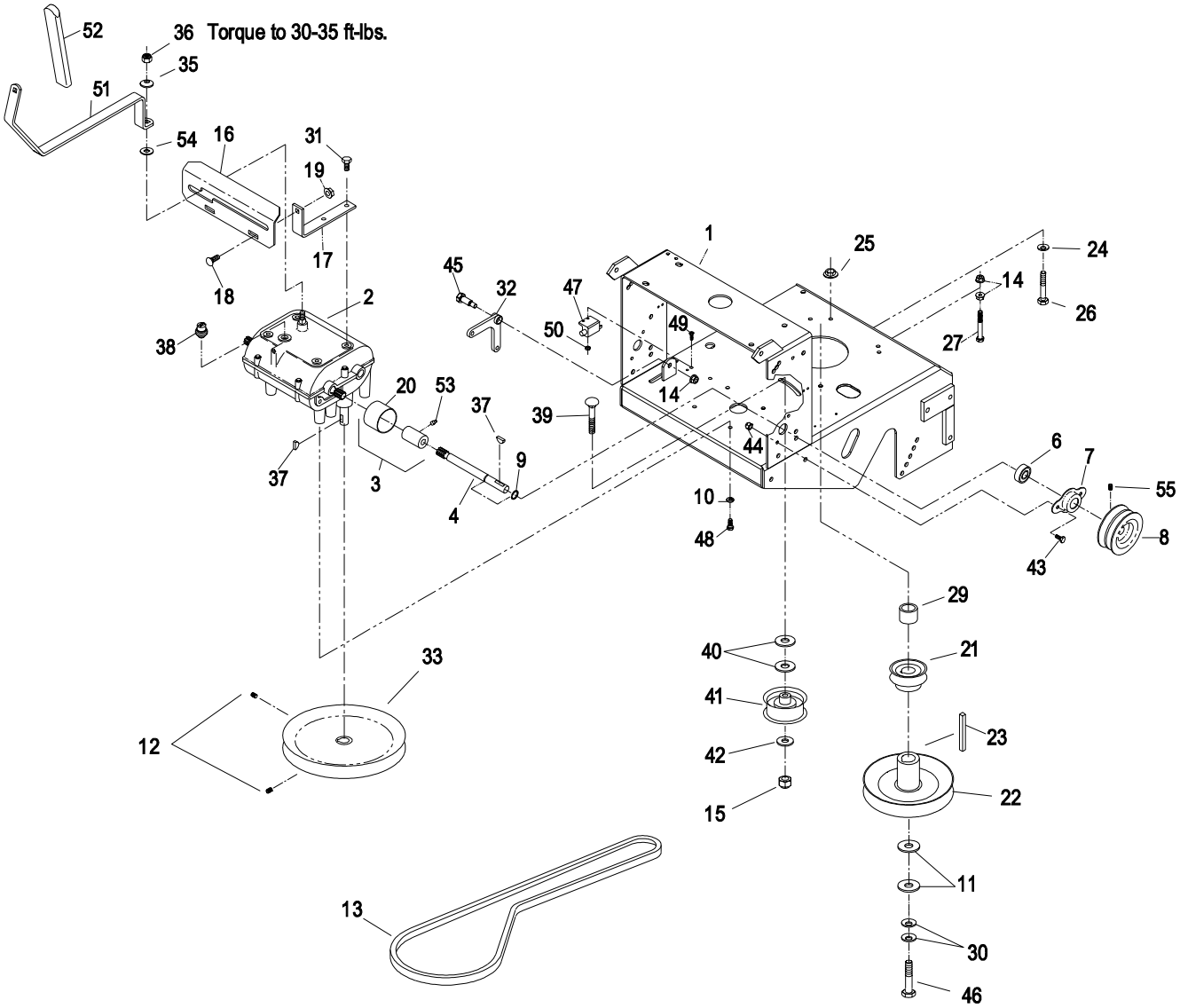
✧ For units with ECS handles only.

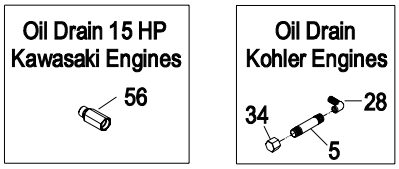
■ For units with Standard pistol grip handles only.

✚ Apply Mobil HTS grease (or a food-grade antisieze) between the spindles & bearings and spindles & sheaves.

✲ This assembly now serviced by 103-2547.
Exmark red touch up spray paint - P/N 1-850337

ENGINE DECK GROUP





ENGINE DECK GROUP

Ref. No.	Part No.	Description	Qty. Req'd.
1	1-402112-01	Rear deck	1
2	1-323500	Transmission	1
3	1-324340	Coupling, w/guard and zerk	2
4	1-323502	Output shaft, transmission	2
5▲●	1-323326	Nipple (galvanized) 3/8 NPT x 3.0	1
6∇	1-323252	Shaft bearing, transmission	2
7	1-323254	Bearing flange, trans shaft	2
8∇	1-323257-03	Sheave, 3 1/4" (36”&48”)	2
∇	1-323363-03	Sheave, 3 1/4" (32”)	2
9	32151-62	Retaining ring	2
10	1-805005	5/16 spring lockwasher	4
11	1-373034	Washer, flat	2
12✧	3245-41	1/4-20 x 3/8 Cuppoint setscrew	2
13	1-323280	Belt, transmission	1
14	3290-357	3/8-16 Whizlock nut	3
15	3296-39	3/8-16 Nyloc nut	1
16	1-323387-03	Shifter plate	1
17	1-323389-03	Leg, shifter lever	2
18	3230-1	5/16-18 x 3/4 Carriage bolt	2
19	32128-20	5/16-18 Whizlock nut	2
20	51-4220	Guard coupler	2
21∇	103-1666	Sheave, trans. drive, 2 3/4"	1
22∇	103-1668	Pulley,blade drive (6.71")(36”)	1
∇	103-1667	Pulley,blade drive(7.33")(32”&48”)	1
23	5-1336	Key,1/4 sq x 2	1
24	1-303334	5/16 disc spring washer	4
25	32128-20	5/16-18 Whizlock nut (15 HP Kaw Engine)	4
26⁕	322-7	5/16-18 x 1 1/2 HH capscrew (15 HP Kaw)	4
⁕	33114-025	M8-1.25 x 25mm HH capscrew (12.5 HP Kaw & All Kohler)	4
27	323-13	3/8-16x2 3/4 HH Capscrew	1
28▲●	1-303431	St. Elbow (brass) 3/8 NPT	1
29	1-633453	Spacer,tube	1
30	1-603610	Washer,disc spring (15 HP Kaw & All Koh)	2
	98-5975	Washer,disc spring (12.5 HP Kaw)	1
31	9264964	5/16-18 x 3/4 Tapping screw	4
32	1-303186	Bell crank	1
33∇	1-323278	Sheave, transmission drive	1
34●	1-543233	Cap (hex) 3/8 NPT	1
35	98-5975	3/8 Spring disc washer	1
36	3296-6	3/8-24 Hex nylock nut	1
37	3257-5	3/16 x 3/4 Woodruff key	3
38	1-303282	Neutral switch	1
39	3231-6	3/8-16 x 2 Carriage bolt, SSN	1
40	3256-5	7/16 Std. Flatwasher	2
41	1-323285	Idler pulley, transmission drive	1
42	3256-24	3/8 SAE flatwasher	1
43	321-3	1/4-20 x 5/8 HH capscrew	4
44	3296-42	1/4-20 Nyloc nut	4
45	1-603403	1/2 x 1 Shoulder bolt	1
46✧	3212-6	Screw,7/16-20x1 1/2 (15 HP Kaw & All Kohler)	1
✧	33115-035	Screw,M10x1.5x35 (12.5 HP Kaw)	1
47	1-513051	Blade engagement switch	1
48	322-3	5/16-18 x 3/4 HH capscrew	4
49	3290-500	10-24 x 5/8 Pan Hd	2
50	3296-2	10-24 Nyloc nut	2
51	103-1606	Shift lever,w/grip	1
52	103-1733	Foam grip	1
53	302-19	1/4-28 Grease zerk (straight)	2
54	1-323379	Washer, shifter lever	1
55✧	1-803310	5/16-18 x 3/8 Cuppoint setscrew	2
56	103-2587	Adapter, oil drain (15 HP Kaw)	1

✧ Use Pro-lock (Nut type) Part No. 1-840022 (.5ml tube) on setscrew threads and on sheave retaining bolt in engine crankshaft (sheave mounting Type B only)

∇ Apply anti-seize compound to bore of blade drive and transmission drive pulleys on engine, drive pulley on transmission, and bearings and sheaves on transmission output shafts.

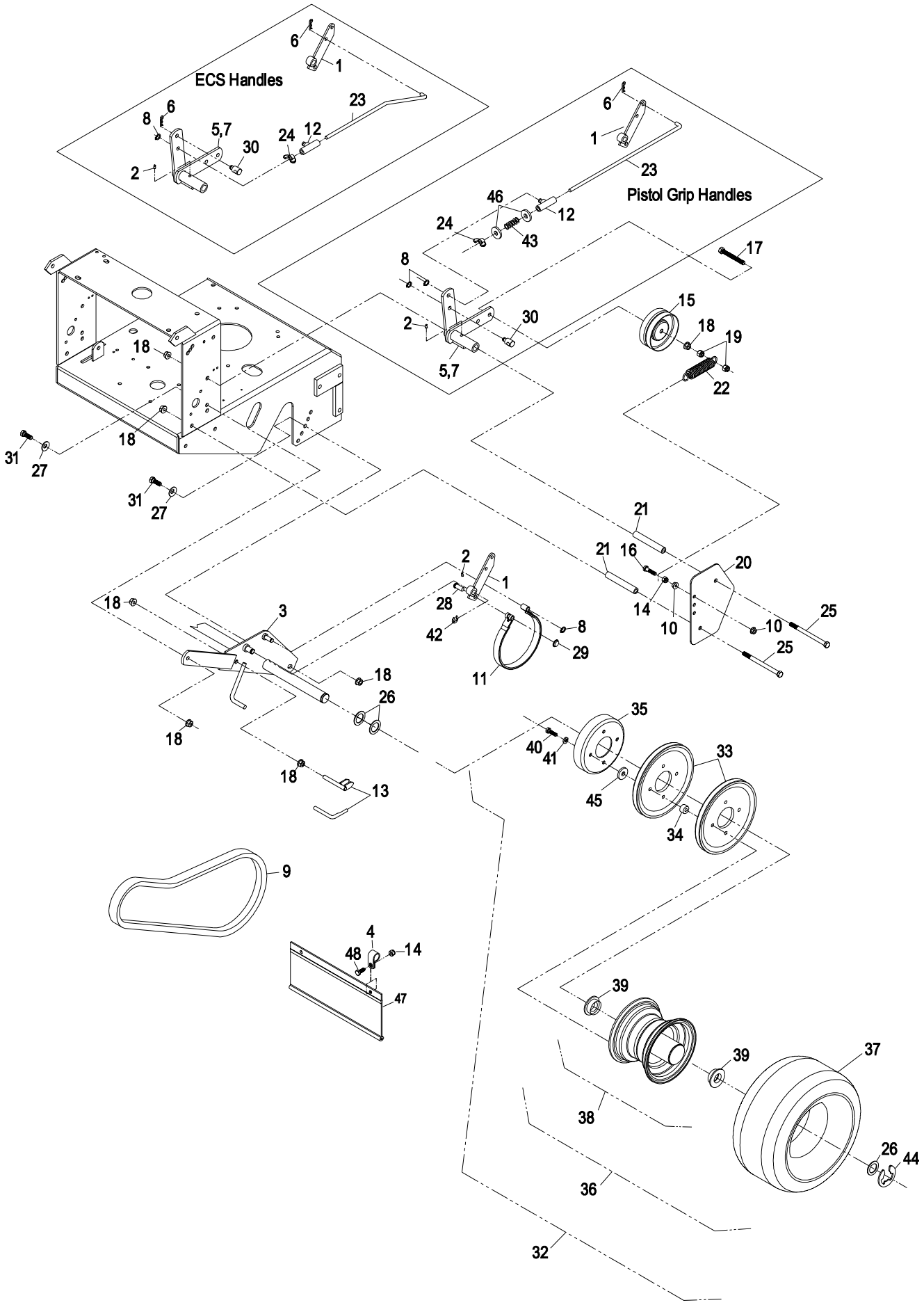
▲ Use Teflon Pipe Sealant (or equivalent) on all pipe threads, except cap.

⁕ Torque Engine Mounting Bolts: 15 HP Kaw to 15-20 ft-lbs / Kohler & 12.5 HP Kaw to 25-30 ft-lbs.

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

● Kohler models only

ENGINE DECK GROUP (con't)



ENGINE DECK GROUP (con't)

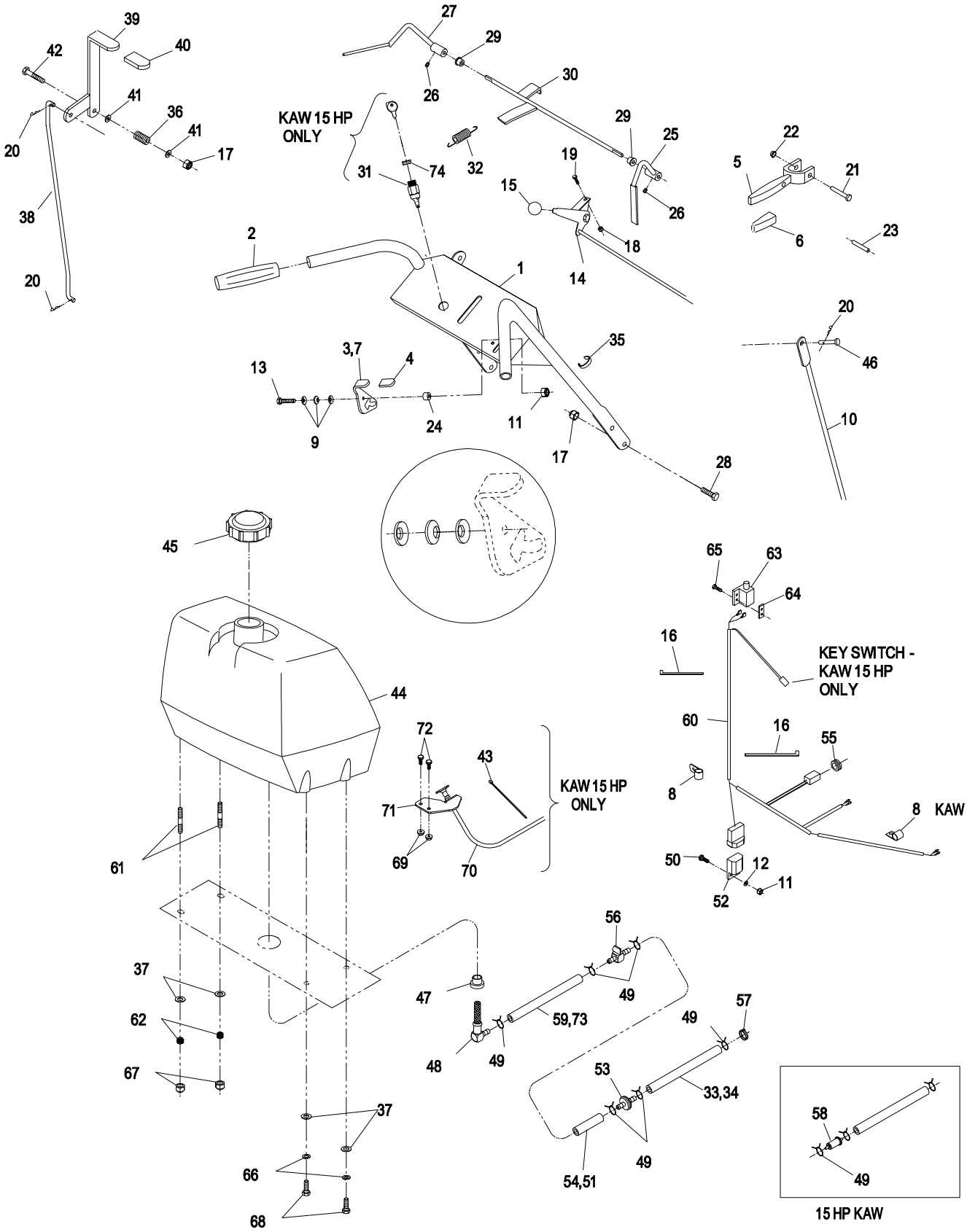
Ref. No.	Part No.	Description	Qty. Req'd.
1	103-1611-03	Brake arm wldmnt	2
2	302-19	1/4-28 Grease zerk (straight)	4
3	1-322117-03	Axle wldmnt (36" & 48" Models)	1
	1-322141-03	Axle wldmnt (32" Model)	1
4	2412-104	R-Clamp	2
5	103-1615-03	Idler arm wldmnt (LH)	1
6 ✧	1-806003	Cotter hairpin, #2	4
■	1-806003	Cotter hairpin, #2	2
7	103-1616-03	Idler arm wldmnt (RH)	1
8■	32151-47	Klipring (for 3/8 shaft)	6
✧	32151-47	Klipring (for 3/8 shaft)	4
9	1-323288	Belt, wheel drive(36"&48" Models)	2
	1-323344	Belt, wheel drive (32" Model)	2
10	32128-20	5/16-18 Whizlock nut	4
11	1-323262	Brake band	2
12	1-322125	Swivel wldmnt, brake linkage	2
13	1-412358	Scraper wldmnt(36"&48" Models)	2
	1-603430	Scraper (32" Model)	2
14	3296-29	5/16-18 Nyloc nut	4
15	1-323277	Idler pulley (36"&48" Models)	2
	1-323352	Idler pulley (32" Model)	2
16	322-6	5/16-18 x 1 1/4 HH capscrew	2
17	99-8664	3/8-16 x 3 HH Tap bolt	2
18	3290-357	3/8-16 Whizlock nut	14
19	3296-39	3/8-16 Nyloc nut	4
20	1-323287-01	Shield, wheel drive	2
21	1-323283	Spacer	4
22	1-603402	Drive spring	2
23■	1-323548	Linkage,Brake	2
✧	103-1619	Linkage,LH Brake	1
✧	103-1620	Linkage,RH Brake	2
24	1-513959	5/16-18 Nyloc wingnut	2
25	323-39	3/8-16 x 5 HH capscrew	4
26	1-523157	Spacer, wheel (14 Ga.)	As Req'd.
	1-543436	Spacer, wheel (18 Ga.)	As Req'd.
27	98-5975	3/8 Disc spring washer	4
28	1-323307	3/8 Clevis pin	2
29	1-803051	3/8 Pushnut	2
30■	103-1864	Swivel, short adjust	2
✧	103-1618	Swivel, short adjust	2
31	323-6	3/8-16 x 1 HH capscrew	4
32	1-324367	Drive wheel (36"&48" Models)	2
	1-324193	Drive wheel (32" Model)	2
33	1-323253	Sheave (36" & 48" Model)	4
	1-323349	Sheave (32"Model)	2
34	1-323260	Spacer, sheave (36" & 48" Model)	8
35	1-323261	Brake drum	2
36	1-323719	Wheel & Tire (36"&48"Models)	2
	1-323346	Wheel & Tire (32"Model)	2
37	1-323720	Tire, 13 x 6.50-6 (4-ply) (36"&48")	1
	1-323361	Tire, 13 x 5.00-6 (4-ply) (32")	1
38	1-323328	Wheel & hub w/brgs (36"&48")	1
	1-323360	Wheel & hub w/brgs (32")	1
39	1-323329	Bearing, flanged	4
40	322-5	5/16-18 x 1 HHCS (32")	8
	322-7	5/16-18 x 11/2 HHCS (36"&48")	8
41	1-805005	5/16 Spring washer	8
42	32120-47	E-Ring (for 1/2" shaft)	2
43■	1-323245	Spring, Compression	2
44	1-808519	E-Ring (for 1" shaft)	2
45	1-373034	Swivel washer (32" Model only)	4
46■	3256-23	5/16 SAE Flat washer	4
47	98-3259	Shield, Trailing	1
48	322-3	5/16-18 x 3/4 HH capscrew	2

Exmark black touch up spray paint - Gloss black

✧ For units with ECS handles only.

■ For units with Standard pistol grip handles only.

STANDARD PISTOL GRIP UPPER HANDLES & CONTROLS



STANDARD PISTOL GRIP UPPER HANDLES & CONTROLS

Ref. No.	Part No.	Description	Qty. Req'd.
1	103-0211	Handle wldmnt(1-322227-03)	1
2	1-303097	Handle grip	2
3∗	1-324279	Latch w/grip (left)	1
4	1-303019	Grip, latch	2
5	1-302006	Drive lever w/grip	2
6	1-303021	Grip, drive lever	2
7	1-324280	Latch w/grip (right)	1
8	1-323229	Clip, 3/8 Loom (Kaw)	2
	1-323229	Clip, 3/8 Loom (Koh)	1
9	1-303435	Washer, 1/4 disc spring	6
10	1-323359	Linkage, wheel drive	2
11	3296-42	1/4-20 Nyloc nut	3
12	3256-22	1/4 SAE. Flatwasher	1
13	321-18	1/4-20 x 2 1/4 HH capscrew	2
14	1-323322	Throttle cable(12.5HP Kaw & Koh)	1
	1-633696	Throttle cable (15 HP Kaw)	1
15	1-513592	Knob, (red ball)	1
16	1-303287	Plastic tie, 5 1/2"	5
17	3296-39	3/8-16 Nyloc nut	5
18	3296-2	10-24 Nyloc hex nut	2
19	1-807513	10-24 x 1/2 Carriage bolt	2
20	1-806003	Hairpin cotter	4
21	1-808250	3/16 x 1 3/4 Clevis pin	2
22	1-803001	3/16 Palnut	2
23	1-806340	5/16 x 1 Rollpin	2
24	1-323549	Spacer	2
25♦•	1-412185-03	Lever, OPC (RH)	1
26✧	1-803322	5/16-24 x 5/16 Setscrew	2
27♦•	1-412183-03	Lever, OPC (LH)	1
28	323-6	3/8-16 x 1 HH capscrew	4
29	1-303365	Nylon bushing	2
30	1-322192-03	Connecting rod	1
31	1-403121	Switch, key (15 HP Kaw)	1
	1-603511	Key, Ignition (15 HP Kaw)	1
	103-2106	Key, Exmark logo (15 HP Kaw)	1
32	1-303363	Actuator spring	1
33	1-303022	Fuel line, 8.5" (12.5 HP Kaw)	1
34	1-603954	Fuel line, 13.75" (Kohler)	1
35	1-303088	Cable clip	1
36	1-303160	Spring,compression	1
37	3256-23	Washer, 5/16 SAE	4
38	1-323298	Linkage, blade drive	1
39	1-322157	Engagmt. lever, blade w/grip	1
40	1-303020	Grip, lever	1
41	3256-4	3/8 Std. flatwasher	2
42	323-10	3/8-16 x 2 HH capscrew	1
43	1-303335	Plastic tie, large (15 HP Kaw)	1
44	1-413179	Tank, gas.	1
45	1-513508	Cap, fuel tank	1
46	1-808286	Clevis pin	2
47	1-513645	Bushing, fuel tank	1
48	1-543277	Elbow, 90°	1
49	1-303077	Clamp, fuel line (15 HP Kaw)	4
	1-303077	Clamp, fuel line (12.5 HP Kaw)	5
	1-303077	Clamp, fuel line (Kohler)	6
50	321-4	1/4-20 x 3/4 HH capscrew	1
51	1-603955	Fuel line, 6” (15 Kaw)	1
52♦	1-323430	Interlock, OPC	1
53	1-303197	Fuel filter (12.5 HP Kaw & Kohler)	1
54	1-603776	Fuel line, 2.5" (12.5HP Kaw&Koh)	1
55	1-543296	Grommet	1
56	1-603770	Fuel valve	1
57	1-303308	Clamp, fuel line (12.5 HP Kaw)	1
58	Kawasaki	PN 41019-1055 w/6” fuel line	1
59	1-603955	Fuel line, 6" (12.5 HP Kaw, Koh)	1
60	103-1660	Wiring harness (12.5 HP Kaw)	1
	103-1640	Wiring harness (Kohler)	1
	103-1610	Wiring harness (15 HP Kaw)	1
61•	1-633023	Stud, gas tank	2
62	1-633349	Spring, gas tank	2
63	1-513051	Switch	1
64	1-633181	Plate, tapped	1
65	3290-500	Screw	2
66	1-805005	Washer Lock 5/16	2
67	3296-47	Nut, Nyloc 5/16-18	2
68	322-3	Screw, 5/16-18X3/4	2
69	32128-33	Nut, Whizlock ¼-20	2
70	103-1796	Choke cable	1
71	103-1797-01	Bracke,choke cable mounting	1
72	321-3	Screw,1/4-20 x 5/8	2
73	1-303022	Fuel line, 8.5" (15 HP Kaw)	1
74	103-0498	Nut, Ignition Switch (15 HP Kaw)	1

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

• Use Pro-lock (Retaining) Part No. 1-840023 (.5 ml tube) on inside of OPC hub (See Operator's Manual) & on fuel tank studs

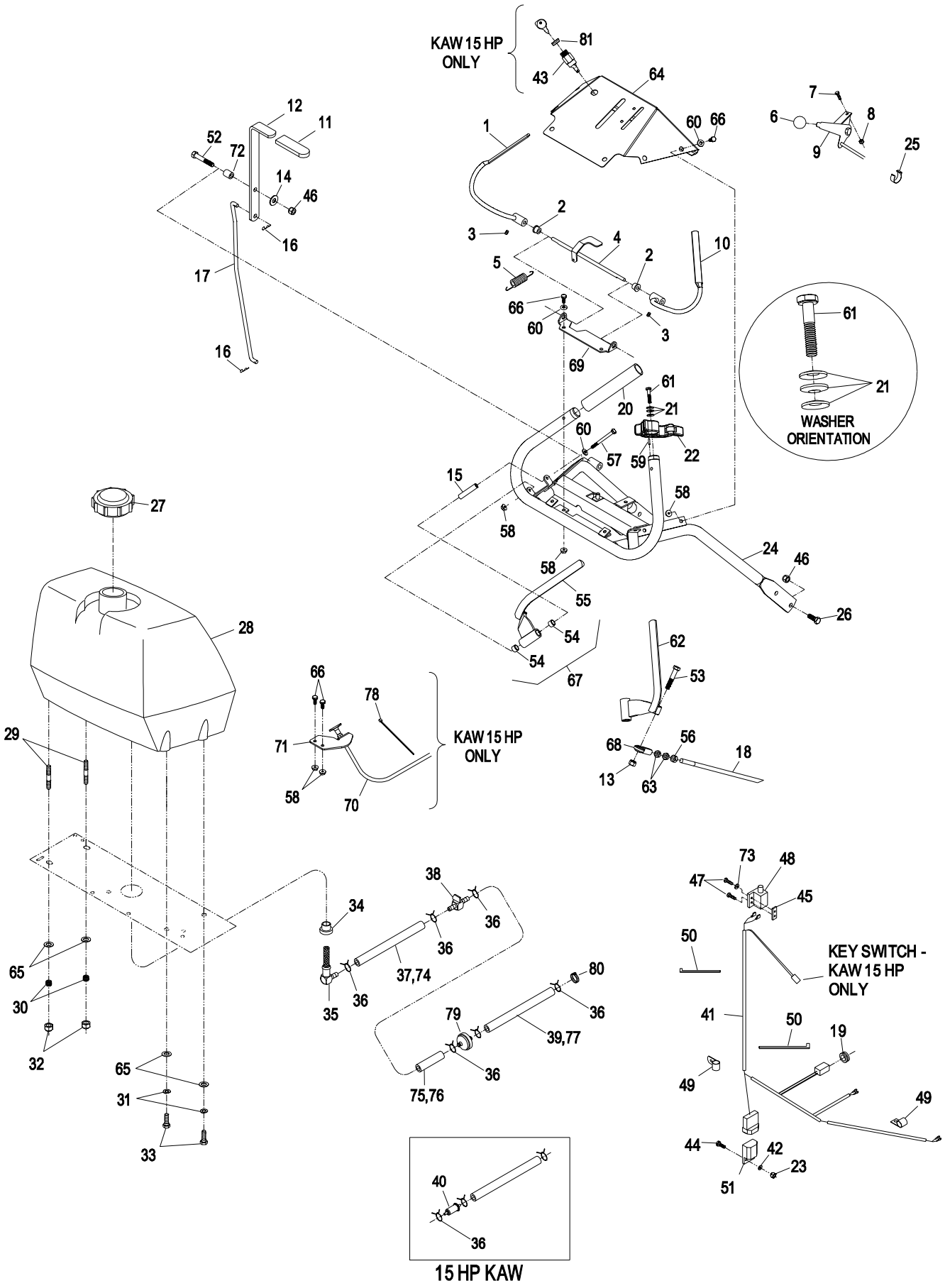
♦ OPC refers to Operator Presence Control.

∗ Not illustrated.

NOTE: Use dielectric grease on all electrical connections.

Exmark black touch up spray paint - Gloss black

ECS UPPER HANDLES & CONTROLS

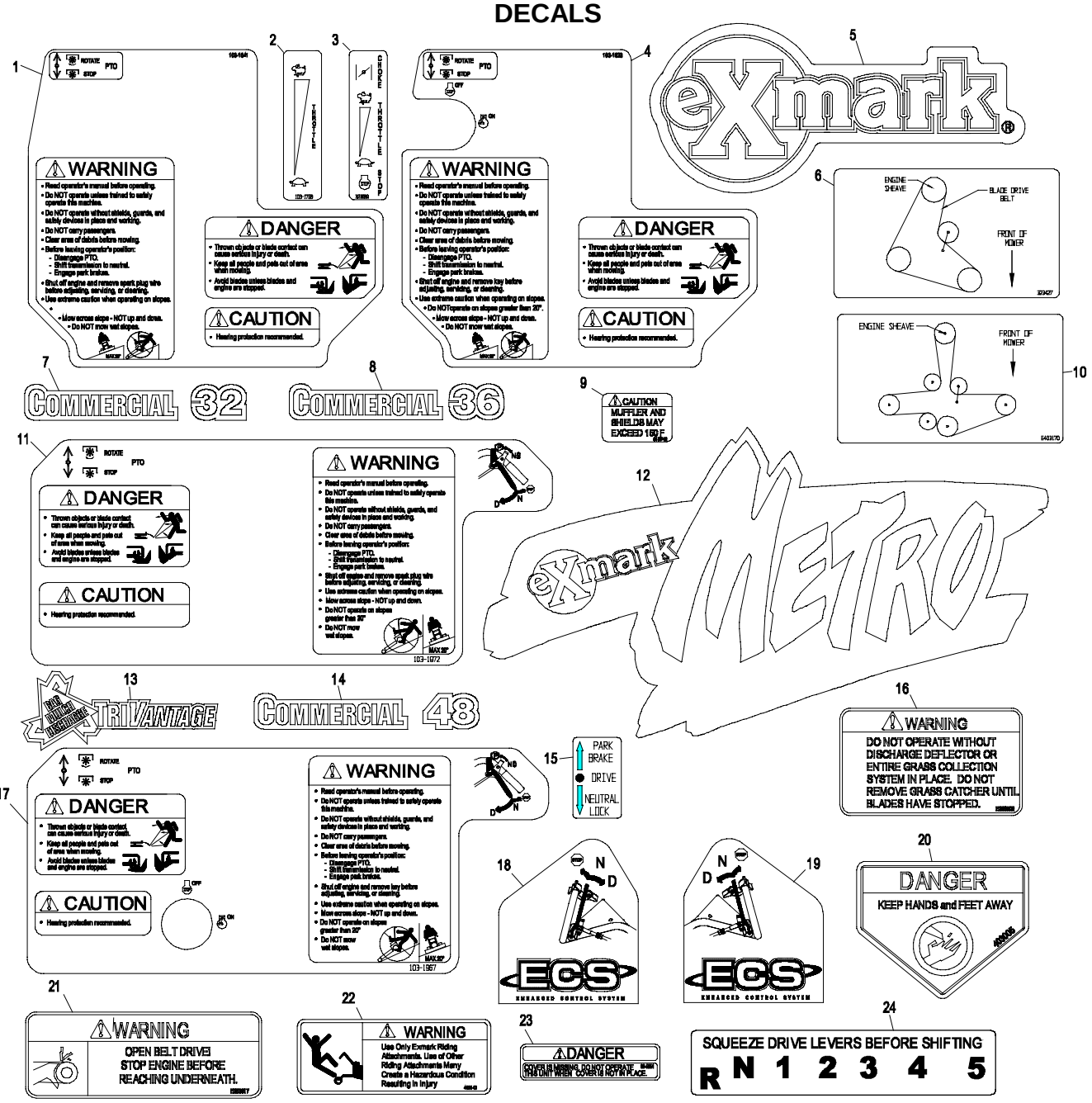


ECS UPPER HANDLES & CONTROLS

Ref. No.	Part No.	Description	Qty. Req'd.
1∇	103-1566-03	Lever, weldment OPC LH	1
2	1-303365	Bushing, Nylon	2
3♦	1-803322	Screw, Set .312-24x.312	2
4	103-0769-03	Rod weldment, OPC	1
5	1-303363	Spring, Actuator	1
6	1-513592	Knob, Ball Red	1
7	1-807513	Bolt, Carr. #10-24x1/2 G2	2
8	3296-2	Nut, Nyloc #10-24	2
9	1-633696	Cable,Throttle Control (15 HP Kaw)	1
	1-323322	Cable,Throttle Control (12.5HP Kaw & Koh)	1
10∇	103-1567-03	Lever, weldment OPC RH	1
11	1-303020	Grip, Lever	1
12	103-1629	Clutch Lever w/Grip	1
13	3296-29	Nut, Nyloc 5/16-18	2
14	3256-4	Washer, Flat STD 3/8	1
15	103-0027	Spacer	2
16	1-806003	Pin, Hair Cotter	2
17	103-1627	Linkage, Upper	1
18	103-1604	Linkage, Wheel Drive	2
19	1-543296	Grommet..	1
20	103-0815	Grip, Handle	2
21	1-303435	Washer, Disc Spring 1/4	6
22	103-1631	Latch, thumb LH	1
	103-1630	Latch, thumb RH (shown)	1
23	3296-42	Nut, Nyloc ¼-20	1
24	103-0770-03	Handle weldment	1
25	1-303088	Cable clip.	1
26	323-6	Screw, Hex Cap 3/8-16x1	4
27	1-513508	Cap, Fuel Tank	1
28	1-413179	Tank, Fuel Intermediate	1
29∇	1-633023	Stud	2
30	1-633349	Spring, Fuel tank	2
31	1-805005	Wshr,Lock Hlcl Spg 5/16 Hvy	2
32	3296-47	Nut, Nyloc 5/16-18	2
33	322-3	Screw, Hex Cap 5/16-18x¾	2
34	1-513645	Bushing, Fuel Valve	1
35	1-543277	Elbow w/Screen	1
36	1-303077	Clamp, Fuel line (15 HP Kaw)	4
	1-303077	Clamp, Fuel line (12.5 HP Kaw)	5
	1-303077	Clamp, Fuel line (Koh)	6
37	1-603955	Hose, Fuel line 6" (12.5 HP Kaw & Koh)	1
38	1-603770	Valve, Fuel	1
39	1-303022	Hose, Fuel line 8.5" (12.5 HP Kaw)	1
40	Kawasaki PN 41019-1055 w/6" fuel line		1
41•	103-1660	Harness, Wiring (12.5 HP Kaw)	1
•	103-1640	Harness, Wiring (15 HP Koh)	1
•	103-1610	Harness, Wiring (15 HP Kaw)	1
42	3256-22	Washer, Flat SAE 1/4	1
43	1-403121	Switch, On/Off	1
	1-603511	Key, ignition	1
	103-2106	Key, Exmark logo	1
44	321-4	Screw, Hex Cap ¼-20x3/4	1
45	1-633181	Plate, Tapped	1
46	3296-39	Nut, Nyloc 3/8-16	5
47	3290-500	Scrw,Mach CRPH 10-24x5/8	2
48	1-513051	Switch, Neutral Lockout	1
49	1-323229	Clip, 3/8 Loom (12.5 & 15 HP Kaw).	2
	1-323229	Clip, 3/8 Loom (Koh)	1
50	1-303287	Tie, Plastic 5 1/2"	6
51	1-323430	Module, Wiring Harness	1
52	323-14	Screw,3/8-16 x 3.0	1
53	322-9	Screw,5/16-18 x 1.75	2
54	1-413152	Bearing ...	4
55	103-2466-03	Lever,drive LH	1
56	3219-3	Nut,3/8-24 reg hex	2
57	321-14	Screw,1/4-20 x 2 3/4	2
58	32128-33	Nut,1/4-20 whizlock (15 HP Kaw).	12
	32128-33	Nut,1/4-20 whiz. (12.5 HP Kaw & Koh)	10
59	103-0464	Pin,1/8 x 1/2 spring	2
60	3256-22	Washer,1/4 SAE flat	10
61♦	103-0235	Screw,1/4-20 x 1 1/8 w/nylon	2
62	103-2465-03	Lever,drive RH	1
63	3220-3	Nut,3/8-24 jam	4
64	103-0546-03	Wld,upper handle console	1
✲	103-2764	Asm,console w/decals	4
▲	103-2765	Asm,console w/decals	4
65	3256-23	Washer,5/16 SAE flat	4
66	321-3	Screw,1/4-20 x 5/8 (15 HP Kaw)	10
	321-3	Screw,1/4-20x5/8 (12.5HP Kaw & Koh)	8
67	103-2513	Asm,drive lever RH	1
	103-2514	Asm,drive lever LH	1
68	103-2463	Joint,.375 ball end	2
69	103-0489-03	Bracket,opc axle	1
70	103-1796	Cable,choke push/pull	1
71	103-1797-01	Bracket,choke cable	1
72	1-633080	Bushing..	1
73	3256-14	Washer, #10 flat	1
74	1-303022	Hose,fuel line 8.5" (15 HP Kaw) ..	1
75	1-603776	Hose,fuel line 2.5" (12.5 HP Kaw & Koh)	1
76	1-603955	Hose,fuel line 6" (15 HP Kaw)	1
77	1-603954	Hose,fuel line 13.75" (Koh)	1
78	1-303335	Tie, Plastic 7 5/16"	1
79	1-303197	Fuel filter (12.5 HP Kaw & Koh) ..	1
80	1-303308	Clamp, fuel line (12.5 HP Kaw) ...	1
81	103-0498	Nut, Ignition Switch (15 HP Kaw .	1

♦ Use Pro-Lock nut type, Part no. 1-840022 (.5cc tube) on setscrew threads and to thumb latch screws.
∇ Use Pro-Lock retaining type, Part no. 1-840023 (.5cc tube) on inside of bore of OPC hub and on fuel tank studs.
• Use dielectric grease on all electrical connectors.
▲ For 15 HP Kawasaki units with a key and separate choke control.
✲ For 15 HP Kohler units without a key.
Exmark black touch up spray paint - Gloss black

DECALS

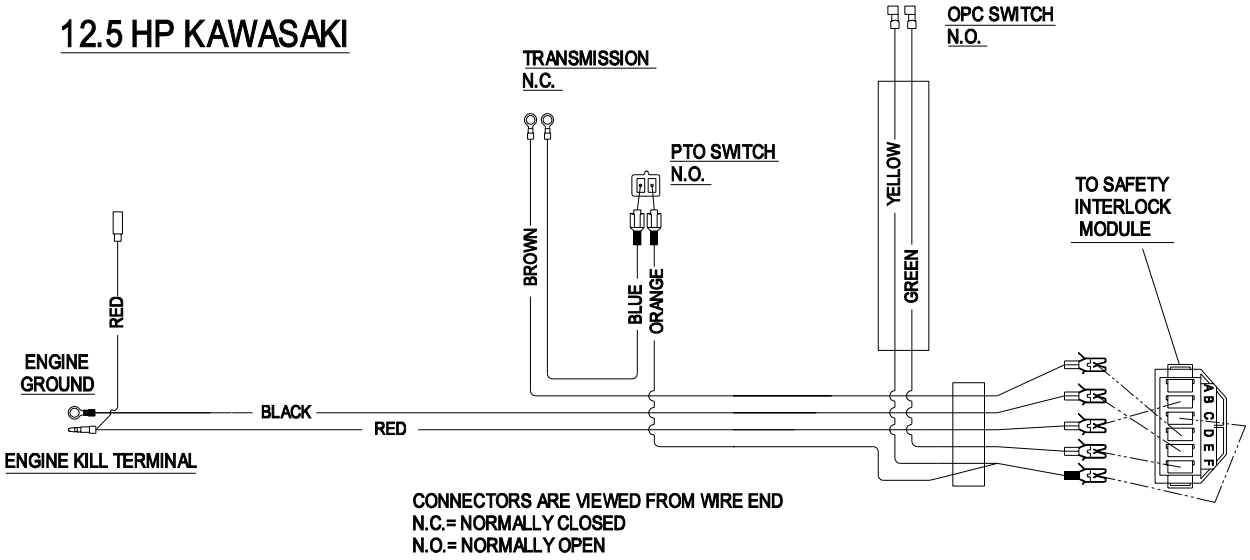


Ref. No.	Part No.	Description	Qty. Req'd.		Ref. No.	Part No.	Description	Qty. Req'd.
1●	103-1641	Decal, Console (12.5 HP Kaw)	1		14	1-403131	Decal, Commercial 48"	1
2	103-1798	Decal, Throttle (15 HP Kaw)	1		15	1-323550	Decal, Neutral/Brake	2
3	1-323689	Decal, Throttle (12.5 Kaw, Koh)	1		16★	1-303508	Decal, Discharge Warning	1
4●	103-1623	Decal, Console (15 HP Kaw)	1		17	103-1967	Decal, Console (15 HP Kaw)	1
5	103-1983	Decal, Small Metro	1		18★	103-2245	Decal, RH ECS Instruction	1
6	1-323427	Decal, Belt Routing (32" & 36")	1		19●	103-2244	Decal, LH ECS Instruction	1
7	1-323410	Decal, Commercial 32"	1		20●	1-403005	Decal, Danger (32" & 36")	1
8	1-323411	Decal, Commercial 36"	1		21	1-403005	Decal, Danger (48")	2
9	1-513746	Decal, Muffler	1			1-303517	Decal, Belt Drive	1
10	1-403170	Decal, Belt Routing (48")	1		22	1-403143	Decal, Sulky Warning	1
11	103-1972	Decal, Console(12.5 Kaw,Koh)	1		23	98-5954	Decal, Missing Cover	1
12★	1-323412	Decal, Large Metro	1		24	1-303518	Decal, Shifter	1
13	1-303520	Decal, TriVantage	1			103-2640	Decal, Kit	

★ Standard Pistol Grip units only
● ECS units only

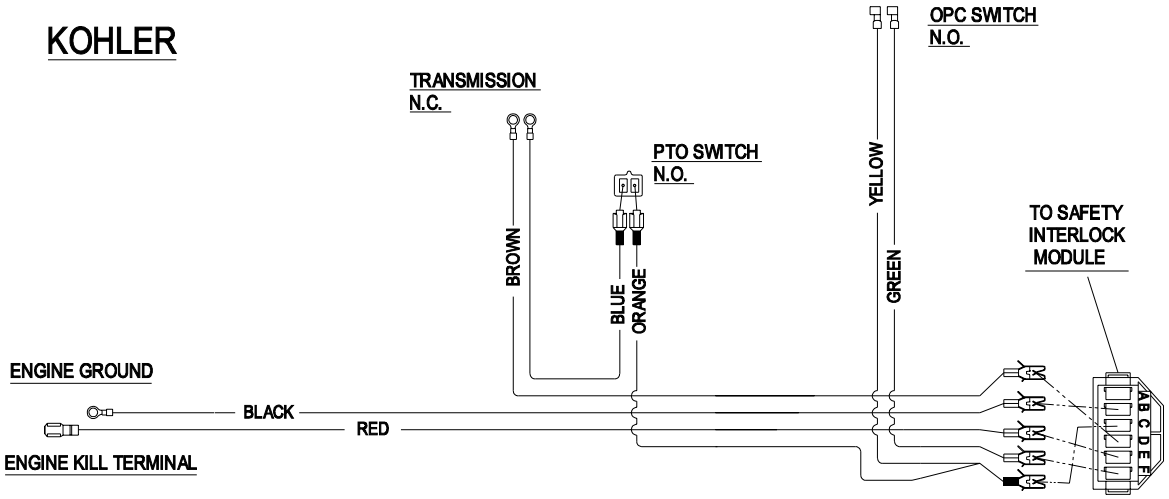
WIRING DIAGRAMS

12.5 HP KAWASAKI



CONNECTORS ARE VIEWED FROM WIRE END
N.C.= NORMALLY CLOSED
N.O.= NORMALLY OPEN

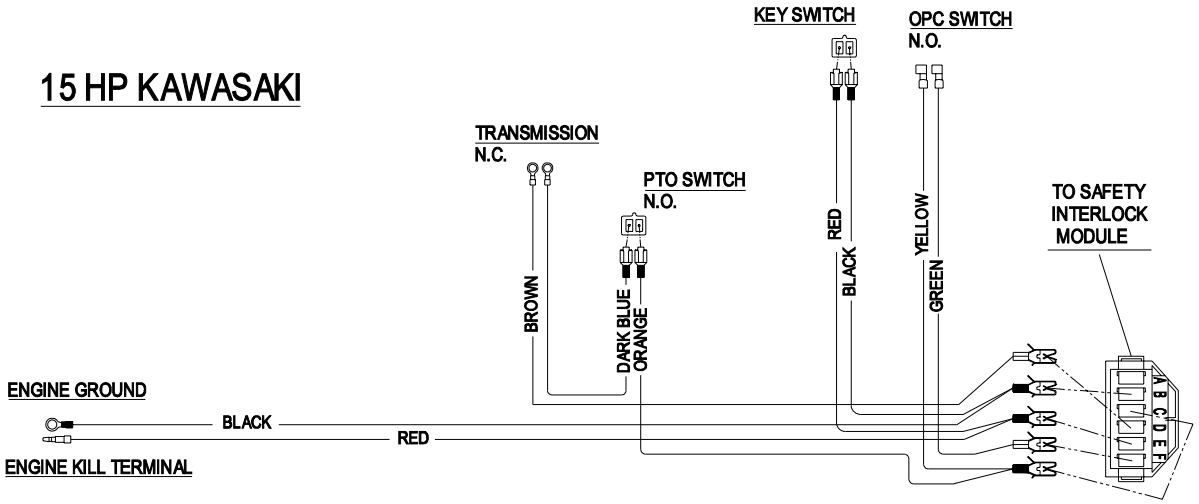
KOHLER



CONNECTORS ARE VIEWED FROM WIRE END
N.C.= NORMALLY CLOSED
N.O.= NORMALLY OPEN

---

15 HP KAWASAKI



CONNECTORS ARE VIEWED FROM WIRE END
N.C.= NORMALLY CLOSED
N.O.= NORMALLY OPEN

SERVICE RECORD

Date	Description of Work Done	Service Done By

NOTES

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PART NO. 103-1622 Rev B
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PRINTED IN U.S.A.

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