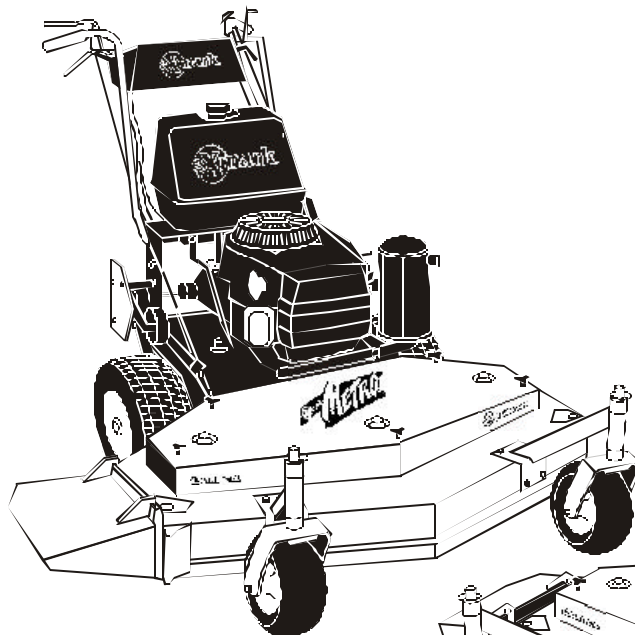
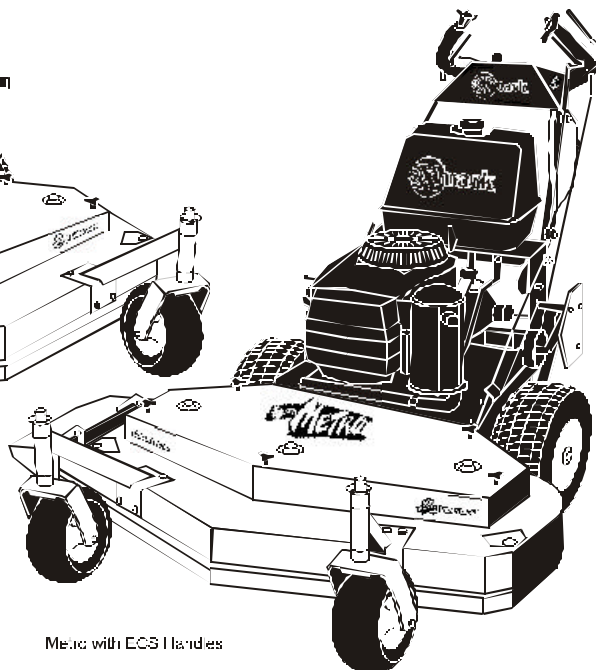


For Serial Nos.
320,000 & Higher



Metro with Pistol Grip Handles



Metro with ECS Handles

METRO[®]

PARTS MANUAL

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 _____

EXMARK PARTS PLUS[?] PROGRAM

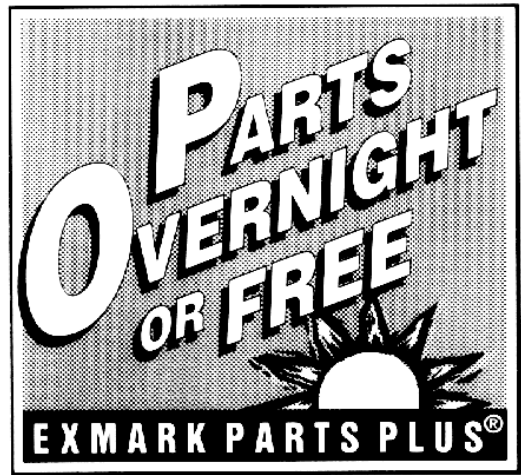
EFFECTIVE DATE: September 1, 1995

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.

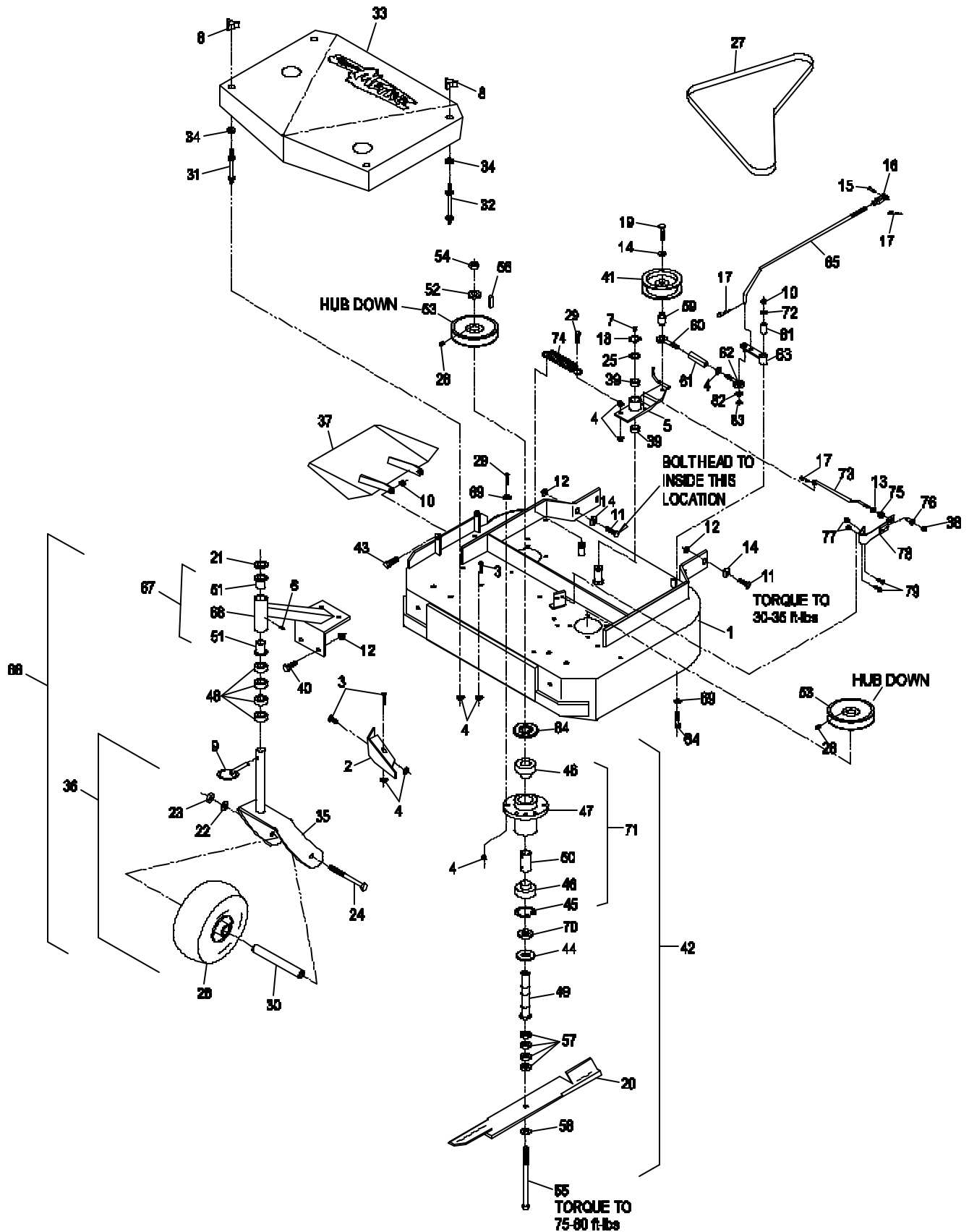


**READ OPERATOR'S MANUAL BEFORE
OPERATING OR SERVICING EXMARK EQUIPMENT.**

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32" and 36" MOWER DECK



32" and 36" MOWER DECK

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-2312	Deck (103-2307-01) w/decals & dogleg(36")	1	38	3296-56	Nut,nyloc 1/4-20 thin	1
	103-2313	Deck (103-2301-01) w/decals & dogleg (32")	1	39	1-323729	Powder metal bearing	2
2	1-302189-01	Baffle wldmnt, dogleg	1	40	323-4	3/8-16 x 3/4 HH capscrew	8
3	322-2	Screw, 5/16-18 x 5/8	7	41	1-603843	Idler pulley (heavy duty)	1
4	32128-20	5/16-18 Whizlock nut.....	22	42?	103-2555	Cutter Housing Complete	2
5	1-324408	Engagmt. arm w/bushing(32&36").....	1	43	322-5	5/16-18 x 1 HH capscrew	2
6	302-52	Grease Zerk, 1/8 NPT straight.....	2	44	1-633573	Guard, bottom	2
7	302-19	Grease Zerk, 1/4-28 straight.....	1	45	32120-8	Retaining ring	2
8	1-323385	Knob, belt cover.....	4	46	1-513016	Bearing	4
9	1-809020	Quick pin, 10" caster	2	47	1-323532	Cutter housing.....	2
10	3296-29	5/16-18 Nyloc hex nut.....	3	48	1-303314	Spacer, 10" caster	8
11	323-8	3/8-16 x 1 1/2 HH capscrew	6	49	1-323529	Tube, spindle.....	2
12	3290-357	3/8-16 whizlock nut.....	14	50	1-323528	Spacer	2
13	1-323748	Ring, push-on 7/16	1	51	1-303514	Flange , thrust bearing	4
14	98-5975	3/8 Disc spring washer	7	52	1-323339	Retaining washer, sheave	2
15	1-808280	5/16 x 1 Clevis pin.....	1	53	1-403183	Pulley.....	2
16	1-303105	Yoke.....	1	54	3219-6	5/8-18 UNF hex nut.....	2
17	1-806003	Cotter hairpin	3	55	1-800861	5/8-18 x 8 HH Capscrew (Gr 5)	2
18	32151-103	E-Ring for .875 rd.	1	56	1-807267	Key, 1/4 x 3/16 x 1 1/4	2
19	702809	3/8-16 x 1 7/8 capscrew	1	57	1-323539	Spacer, blade drive	8
20	1-633482	Blade, Notched air foil (36").....	2	58	1-513208	5/8 Spring disc washer.....	2
	1-613251	Blade, Solid air foil (36").....	2	59	1-303434	Engagement bushing	1
?	1-633484	Blade, Mulching (36").....	2	60	1-303348	Eye bolt (left hand thread).....	1
	1-633485	Blade, Low Lift (36") optional.....	2	61	1-303236	Turnbuckle body.....	1
	103-1578	Blade, Bahia (36")	2	62	1-303238	Eye bolt (right hand thread).....	1
	1-413438	Blade, Solid air foil (32").....	2	63	1-322235	Assist arm (32" & 36")	1
	1-323515	Blade, Notched air foil (32").....	2	64	322-10	Screw, 5/16-18 X 2	1
?	1-403148	Blade, Mulching (32").....	2	65	1-323303	Assist arm linkage.....	1
	1-403149	Blade, Low Lift (32") optional.....	2	66†	103-1238	Caster/mount, complete	2
	103-1577	Blade, Bahia (32")	2	†	103-2281	Caster/mount, complete	2
21	1-513338	Washer, special.....	2	67†	1-302203	Caster whl support w/bearings	2
22	3253-7	1/2 spring lockwasher	2	†	103-2296	Caster whl support w/bearings,weighted	2
23	3217-9	1/2-13 Hex nut.....	2	68†	1-302194-01	Caster whl support wldmnt.....	2
24	325-20	1/2-13 x 6 HH capscrew.....	2	†	103-2297-01	Caster whl support wldmnt,weighted..	2
25	1-303352	Washer, spindle.....	1	69	1-303334	5/16 Spring disc washer	9
26	103-1224	Tire & Wheel Asm	2	70	1-323533	Spacer.....	2
	1-513809	Roller bearing	1	71	1-634619	Housing w/Brg, Spacer and Ring	2
	103-2170	Bushing	2	72	3256-3	Wshr, flat std 5/16.....	1
27	1-323733	Drive belt (to blades) 36" Model.....	1	73	1-323715	Rod, brake 36".....	1
	1-323734	Drive belt, (to blades) 32" Model.....	1		1-323718	Rod, brake 32"	1
? 28	1-803310	Setscrew, 5/16-18 x 3/8	2	74	1-323071	Spring.....	1
29	322-6	5/16-18 x 1 1/4 HH capscrew	9	75	1-323747	Spring, compression.....	1
30	103-2169	Spacer, front caster.....	2	76	1-323746	Spacer, flanged	1
31	1-303537	Stud, belt shield (short)	2	77	3296-42	Nut, nyloc 1/4 - 20.....	2
32	1-303536	Stud, belt shield (long).....	2	78	1-324372	Pad/spring assy.....	1
33	1-324208	Shield (1-302213-01) w/decals, 36"	1	79	321-4	Screw, HHCap 1/4-20 X 3/4	2
	1-324194	Shield (1-322149-01) w/decals, 32"	1	81	1-403179	Tube, pivot.....	1
34	1-323417	Washer, belt cover mount.....	4	82	3256-23	Wshr, flt SAE 5/16.....	1
35	1-322145-01	Fork wldmnt, caster.....	2	83	32120-35	E-ring	1
36	103-1236	Caster wheel assembly.....	2	84	103-1330	Guard,Bearing top	2
37	1-302233-01	Chute	1	85†	103-2171	Kit,semi-pneumatic whl replacement .	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")

? Cutter housing complete includes sheave, washer, and nut and does not include blade.

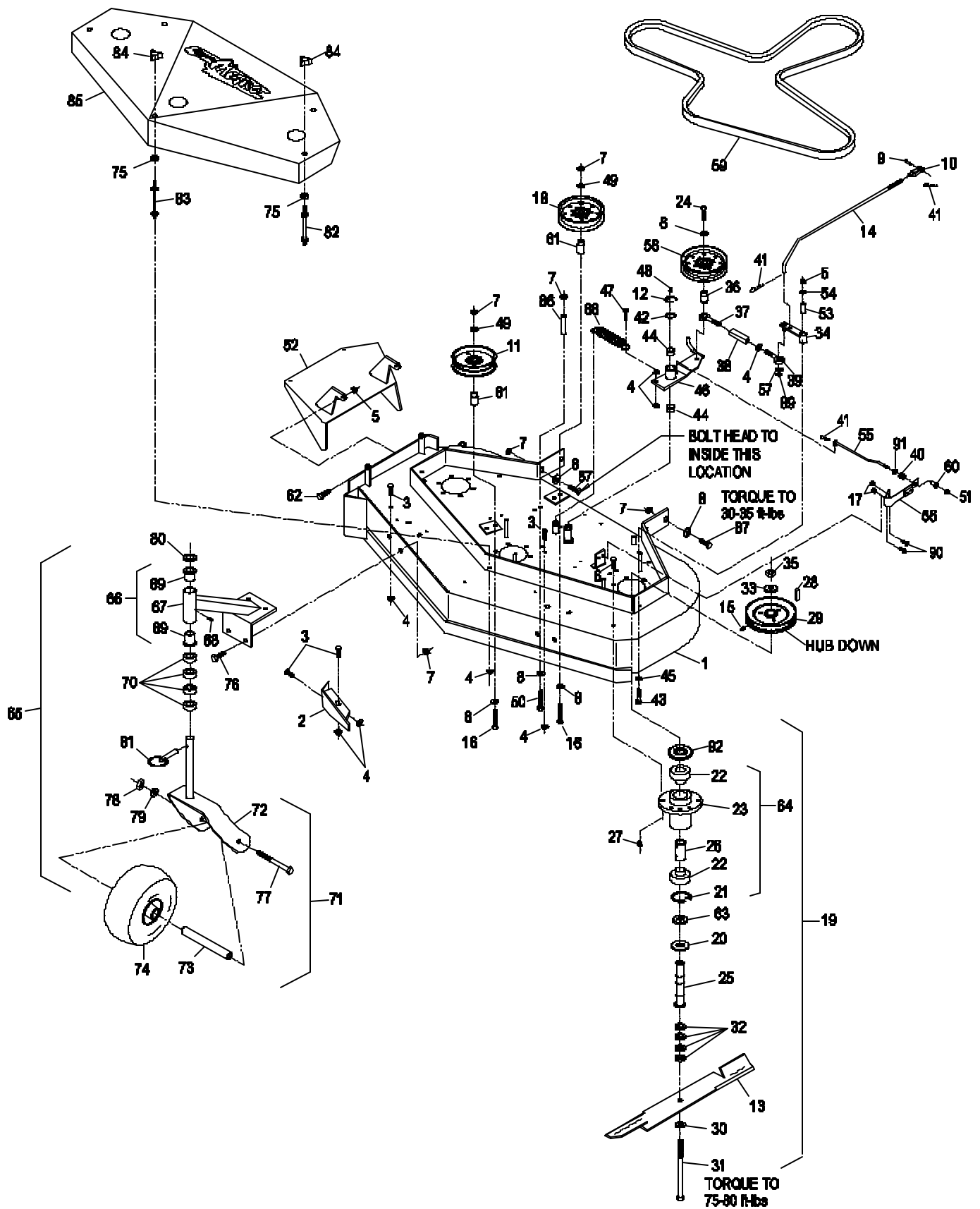
Exmark red touch up spray paint - P/N 1-850337

† 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

48" MOWER DECK



48" MOWER DECK

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	1-404257	Deck (1-402108-01)w/decals & dogleg....	1	48	302-19	Zerk 1/4-28 strt	1
2	1-402107-01	Baffle, dogleg.....	1	49	3256-24	3/8 Flatwasher.....	2
3	322-2	5/16-18 x 5/8 HH capscrew.....	4	50	323-20	3/8-16 x 3 1/4 HH capscrew.....	1
4	32128-20	5/16-18 Whizlock nut.....	12	51	3296-56	Nut, nyloc 3/4-20 thin	1
5	3296-29	5/16-18 Nyloc hex nut.....	3	52	1-402106-01	Chute wldmt.....	1
6	323-7	3/8-16 x 1 1/4 HH capscrew.....	18	53	1-403179	Tube, pivot	1
7	3290-357	3/8-16 whizlock nut.....	17	54	3256-3	Washer, Flat Std 5/16.....	1
8	98-5975	3/8 disc spring washer	10	55	1-323714	Rod brake 48" LH	1
9	1-808280	5/16 x 1 Clevis pin.....	1	56	1-324372	Pad/spring assy.....	1
10	1-303105	Yoke.....	1	57	3256-23	5/16 SAE flat washer	1
11	1-613098	Idler pulley "V"	1	58	1-603843	Pulley, idler (heavy duty)	1
12	32151-103	E-Ring for .875 rd.	1	59	1-403174	Drive belt (main deck) 48".....	1
13	1-323515	Blade, Notched air foil (48")	3	60	1-323746	Spacer, flanged	1
	1-413438	Blade, Solid air foil (48").....	3	61	1-403184	Bushing	2
?	1-403148	Blade, mulching (48")	3	62	322-5	5/16-18 x 1 HH capscrew.....	2
	1-403149	Blade, Low Lift (48") optional.....	3	63	1-323533	Spacer	3
	103-1577	Blade, Bahia (48")	3	64	1-634619	Housing w/Brg, Spacer and Ring	3
14	1-323303	Assist arm linkage	1	65†	103-1238	Caster/mount, complete	2
15?	1-803310	Setscrew, 5/16-18 x 3/8	3	†	103-2281	Caster/mount, complete	2
16	323-13	3/8-16 x 2 3/4 HH capscrew.....	2	66†	1-302203	Caster whl support w/bearings	2
17	3296-42	Nut, nyloc 3/4 - 20	2	†	103-2296	Caster whl support w/bearings,weighted2	2
18	1-403186	Idler pulley	1	67†	1-302194-01	Caster wheel support wldmnt.....	2
19?	103-2555	Cutter Housing Complete	3	†	103-2297-01	Caster wheel support wldmnt,weighted2	2
20	1-633573	Guard, bottom	3	68	302-52	Grease zerk, 1/8 N.P.T.	2
21	32120-8	Retaining ring	3	69	1-303514	Flange, thrust bearing	4
22	1-513016	Bearing	6	70	1-303314	Spacer, 10" caster	8
23	1-323532	Cutter housing.....	3	71	103-1236	Caster wheel assembly.....	2
24	702809	3/8-16 x 1 7/8 HH Capscrew	1	72	1-322145-01	Fork wldmnt, caster.....	2
25	1-323529	Cutter spindle tube	3	73	103-2169	Spacer, front caster.....	2
26	1-323528	Spacer	3	74	103-1224	Tire & Wheel Asm.....	2
27	3296-39	Nut, nylock 3/8-16.....	18		1-513809	Roller bearing	2
28	1-807267	Key, 1/4 x 3/16 x 1 1/4	3		103-2170	Bushing.....	4
29	1-403183	Pulley.....	3	75	1-323417	Washer, belt cover mount.....	5
30	1-513208	5/8 Spring disc washer.....	3	76	323-4	3/8-16 x 3/4 HH capscrew.....	8
31	1-800861	5/8-18x8 HH Capscrew(Gr5).....	3	77	325-20	1/2-13 x 6 HH capscrew.....	2
32	1-323539	Spacer, blade drive	12	78	3217-9	1/2-13 Hex nut.....	2
33	1-323339	Washer, retainer (sheave)	3	79	3253-7	1/2 spring lockwasher.....	2
34	1-322230	Assist arm (48")	1	80	1-513338	Washer, special.....	2
35	3219-6	5/8-18 UNF hex nut.....	3	81	1-809020	Quick pin, 10" caster	2
36	1-303434	Engagement bushing	1	82	1-303537	Stud, belt shield (short)	2
37	1-303348	Eye bolt (left hand thread)	1	83	1-303536	Stud, belt shield (long).....	3
38	1-303236	Turnbuckle body.....	1	84	1-323385	Knob, belt cover	5
39	1-303238	Eye bolt (right hand thread).....	1	85	1-404238	Shield (1-402100-01)w/decals 48" ..	1
40	1-323747	Spring, compression	1	86	1-403188	Spacer, belt guide.....	1
41	1-806003	Cotter hairpin	3	87	323-8	3/8-16 x 1 1/2 HH capscrew.....	6
42	1-303352	Washer, spindle.....	1	88	1-323071	Spring 5sp/dr idler	1
43	322-10	Screw, 5/16-18 X 2	1	89	32120-35	E - ring	1
44	1-323729	Powder metal bearing	2	90	321-4	1/4-20 X 3/4 HH capscrew	2
45	1-303334	Washer, Sprg Disc 5/16	1	91	1-323748	Ring, push-on 7/16.....	1
46	1-402109	Engagmt. arm w/bushings (48").....	1	92	103-1330	Guard,Bearing top	3
47	322-6	5/16-18 1 1/4 HH capscrew.....	1	93†	103-2171	Kit,semi-pneumatic whl replacement.	1

? 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

? Cutter housing complete includes sheave, washer, and nut and does not include blade.

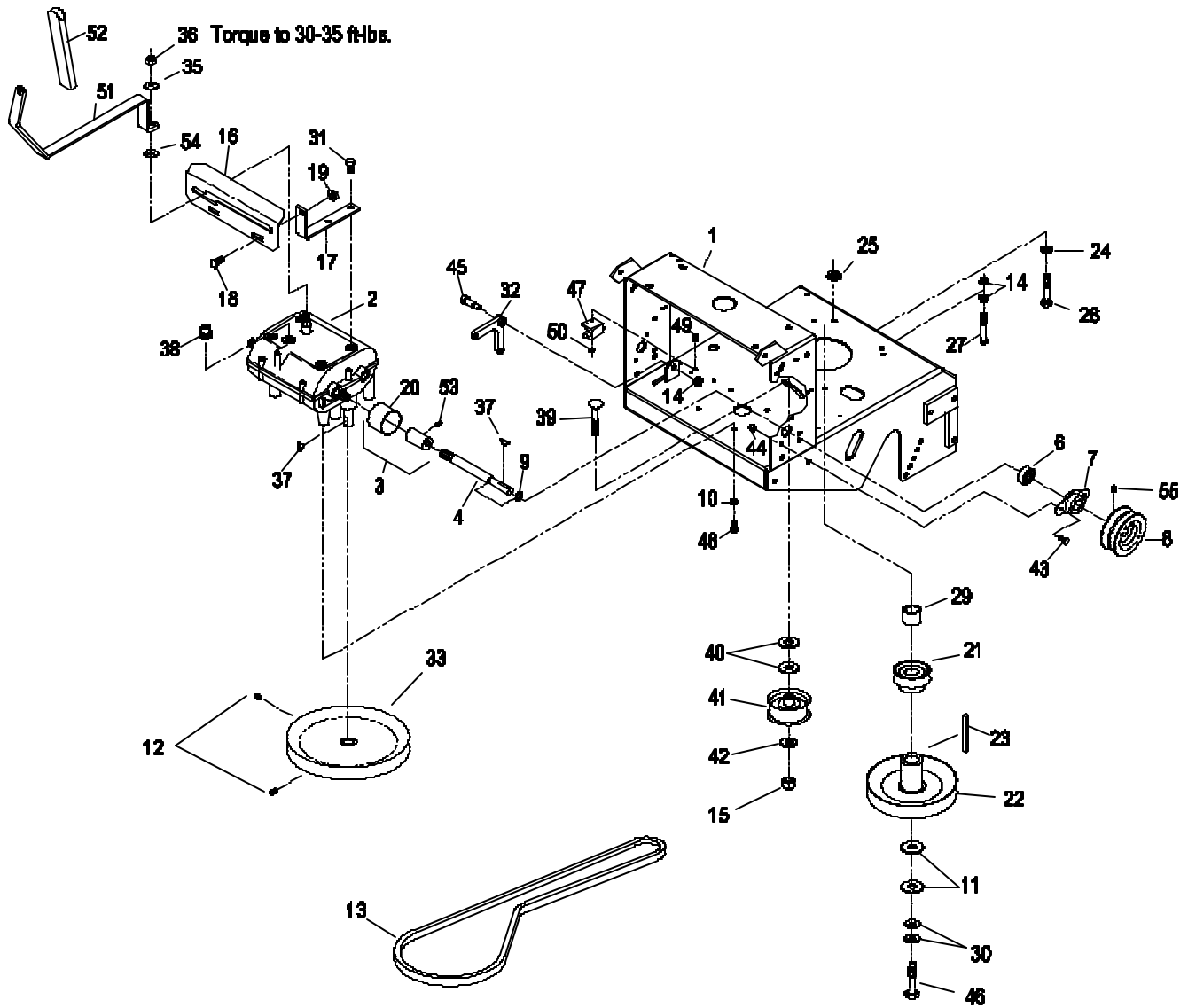
Exmark red touch up spray paint - P/N 1-850337

† 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.

ENGINE DECK GROUP



ENGINE DECK GROUP

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

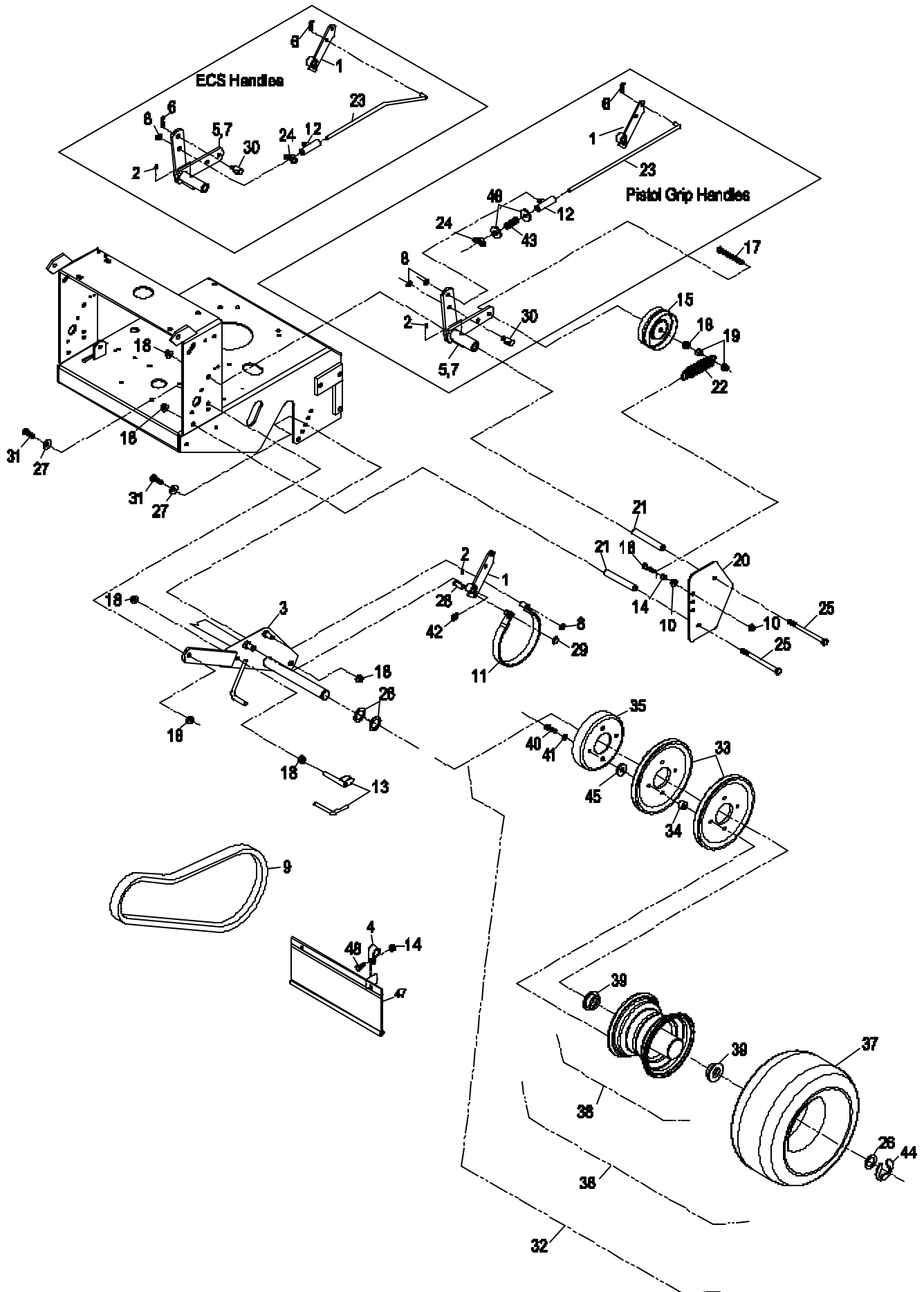
† Torque Engine Mounting Bolts: 15 HP Kaw to 15-20 ft-lbs / Kohler & 12.5 HP Kaw to 25-30 ft-lbs.

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

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† For units with ECS handles only.

† For units with Standard pistol grip handles only.

STANDARD PISTOL GRIP UPPER HANDLES & CONTROLS

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-0211	Handle wldmnt(1-322227-03)	1	39	1-322157	Engagmt. lever, blade w/grip	1
2	1-303097	Handle grip	2	40	1-303020	Grip, lever	1
3?	1-324279	Latch w/grip (left)	1	41	3256-4	3/8 Std. flatwasher	2
4	1-303019	Grip, latch	2	42	323-10	3/8-16 x 2 HH capscrew	1
5	1-302006	Drive lever w/grip	2	43	1-303335	Plastic tie, large (15 HP Kaw)	1
6	1-303021	Grip, drive lever	2	44	1-413179	Tank, gas	1
7	1-324280	Latch w/grip (right)	1	45	1-513508	Cap, fuel tank	1
8	1-323229	Clip, 3/8 Loom (Kaw)	2	46	1-808286	Clevis pin	2
	1-323229	Clip, 3/8 Loom (Koh)	1	47	1-513645	Bushing, fuel tank	1
9	1-303435	Washer, 1/4 disc spring	6	48	1-543277	Elbow, 90°	1
10	1-323359	Linkage, wheel drive	2	49	1-303077	Clamp, fuel line (15 HP Kaw)	4
11	3296-42	1/4-20 Nyloc nut	3		1-303077	Clamp, fuel line (12.5 HP Kaw)	5
12	3256-2	1/4 STD. Flatwasher	1		1-303077	Clamp, fuel line (Kohler)	6
13	321-18	1/4-20 x 2 1/4 HH capscrew	2	50	321-4	1/4-20 x 3/4 HH capscrew	1
14	1-323322	Throttle cable(12.5HP Kaw & Koh)	1	51	1-603955	Fuel line, 6" (15 Kaw)	1
	1-633696	Throttle cable (15 HP Kaw)	1	52?	1-323430	Interlock, OPC	1
15	1-513592	Knob, (red ball)	1	53	1-303197	Fuel filter (12.5 HP Kaw & Kohler)	1
16	1-303287	Plastic tie, 5 1/2"	5	54	1-603776	Fuel line, 2.5" (12.5HP Kaw&Koh)	1
17	3296-39	3/8-16 Nyloc nut	5	55	1-543296	Grommet	1
18	3296-2	10-24 Nyloc hex nut	2	56	1-603770	Fuel valve	1
19	1-807513	10-24 x 1/2 Carriage bolt	2	57	1-303308	Clamp, fuel line (12.5 HP Kaw)	1
20	1-806003	Hairpin cotter	4	58	Kawasaki	PN 41019-1055 w/6" fuel line	1
21	1-808250	3/16 x 1 3/4 Clevis pin	2	59	1-603955	Fuel line, 6" (12.5 HP Kaw, Koh)	1
22	1-803001	3/16 Palnut	2	60	103-1660	Wiring harness (12.5 HP Kaw)	1
23	1-806340	5/16 x 1 Rollpin	2		103-1640	Wiring harness (Kohler)	1
24	1-323549	Spacer	2		103-1610	Wiring harness (15 HP Kaw)	1
25? ?	1-412185-03	Lever, OPC (RH)	1	61?	1-633023	Stud, gas tank	2
26	1-803322	5/16-24 x 5/16 Setscrew	2	62	1-633349	Spring, gas tank	2
27? ?	1-412183-03	Lever, OPC (LH)	1	63	1-513051	Switch	1
28	323-6	3/8-16 x 1 HH capscrew	4	64	1-633181	Plate, tapped	1
29	1-303365	Nylon bushing	2	65	3290-500	Screw	2
30	1-322192-03	Connecting rod	1	66	1-805005	Washer Lock 5/16	2
31	1-403121	Switch, key (15 HP Kaw)	1	67	3296-47	Nut, Nyloc 5/16-18	2
	1-603511	Key, Ignition (15 HP Kaw)	1	68	322-3	Screw, 5/16-18X3/4	2
	103-2106	Key, Exmark logo (15 HP Kaw)	1	69	32128-33	Nut, Whizlock 1/4-20	2
32	1-303363	Actuator spring	1	70	103-1796	Choke cable	1
33	1-303022	Fuel line, 8.5" (12.5 HP Kaw)	1	71	103-1797-01	Bracke,choke cable mounting	1
34	1-603954	Fuel line, 13.75" (Kohler)	1	72	321-3	Screw,1/4-20 x 5/8	2
35	1-303088	Cable clip	1	73	1-303022	Fuel line, 8.5" (15 HP Kaw)	1
36	1-303160	Spring,compression	1	74	103-0498	Nut, Ignition Switch (15 HP Kaw)	1
37	3256-23	Washer, 5/16 SAE	4	75	130-0499	Seal, Ignition Switch (15 HP Kaw)	1
38	1-323298	Linkage, blade drive	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

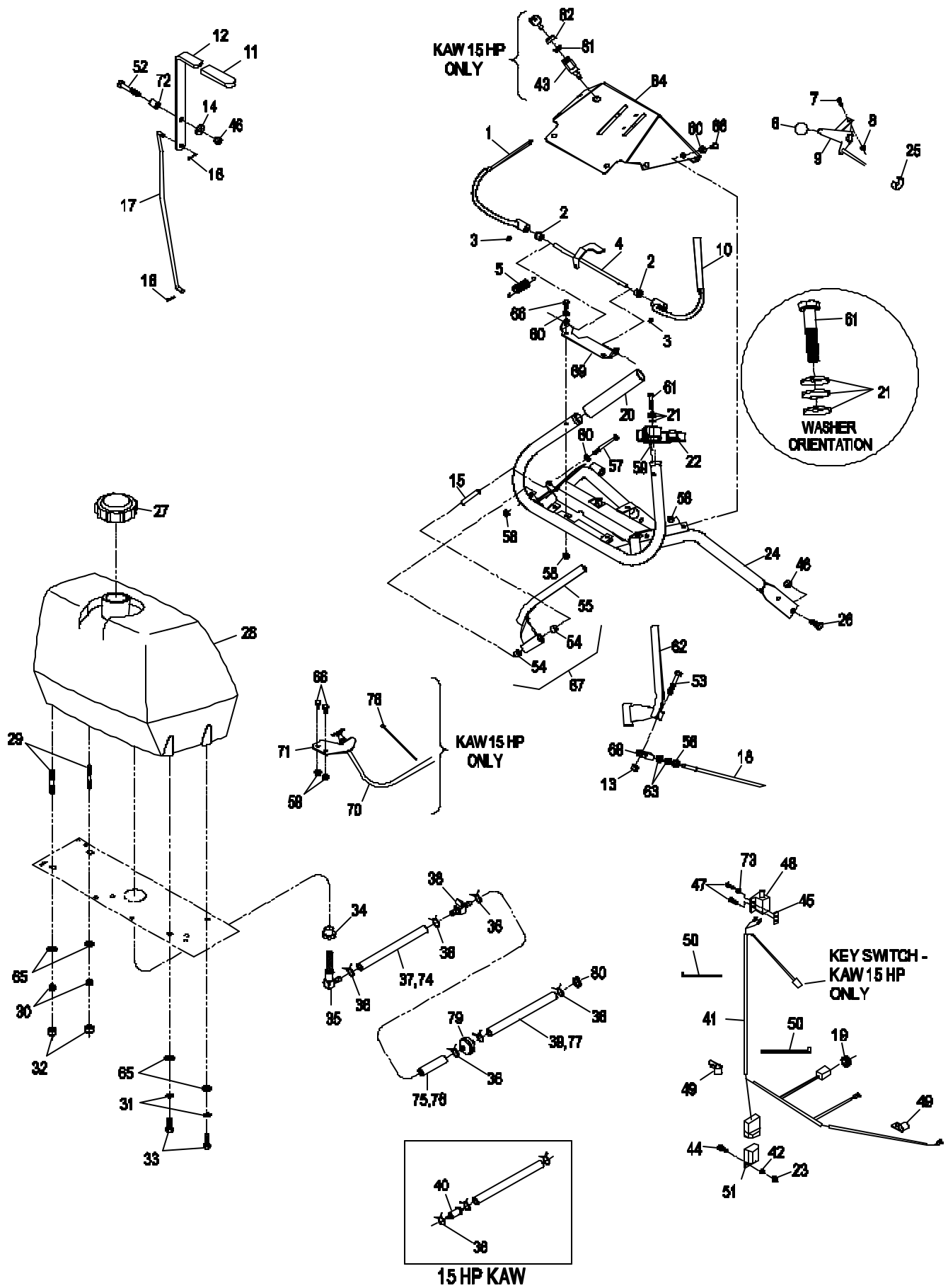
? OPC refers to Operator Presence Control.

? Not illustrated.

NOTE: Use dielectric grease on all electrical connections.

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ECS UPPER HANDLES & CONTROLS



ECS UPPER HANDLES & CONTROLS

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1?	103-1566-03	Lever, weldment OPC LH	1	42	3256-2	Washer, Flat Std 1/4	1
2	1-303365	Bushing, Nylon.....	2	43	1-403121	Switch, On/Off	1
3?	1-803322	Screw, Set .312-24x.312	2		1-603511	Key, ignition	1
4	103-0769-03	Rod weldment, OPC	1		103-2106	Key, Exmark logo.....	1
5	1-303363	Spring, Actuator.....	1	44	321-4	Screw, Hex Cap 1/4-20x3/4	1
6	1-513592	Knob, Ball Red.....	1	45	1-633181	Plate, Tapped.....	1
7	1-807513	Bolt, Carr. #10-24x1/2 G2.....	2	46	3296-39	Nut, Nyloc 3/8-16.....	4
8	3296-2	Nut, Nyloc #10-24.....	2	47	3290-500	Scrw,Mach CRPH 10-24x5/8	2
9	1-633696	Cable,Throttle Control (15 HP Kaw).....	1	48	1-513051	Switch, Neutral Lockout.....	1
	1-323322	Cable,Throttle Control (12.5HP Kaw & Koh)	1	49	1-323229	Clip, 3/8 Loom (12.5 & 15 HP Kaw)	2
10?	103-1567-03	Lever, weldment OPC RH.....	1		1-323229	Clip, 3/8 Loom (Koh).....	1
11	1-303020	Grip, Lever.....	1	50	1-303287	Tie, Plastic 5 1/2"	6
12	103-1629	Clutch Lever w/Grip.....	1	51	1-323430	Module, Wiring Harness	1
13	3296-29	Nut, Nyloc 5/16-18.....	2	52	323-14	Screw,3/8-16 x 3.0	1
14	3256-4	Washer, Flat SAE 3/8	1	53	322-9	Screw,5/16-18 x 1.75	2
15	103-0027	Spacer	2	54	1-413152	Bearing	4
16	1-806003	Pin, Hair Cotter.....	2	55	103-2466-03	Lever,drive LH	1
17	103-1627	Linkage, Upper	1	56	3219-3	Nut,3/8-24 reg hex	2
18	103-1604	Linkage, Wheel Drive	2	57	321-14	Screw,1/4-20 x 2 3/4	2
19	1-543296	Grommet.	1	58	32128-33	Nut,1/4-20 whizlock (15 HP Kaw)	12
20	103-0815	Grip, Handle	2		32128-33	Nut,1/4-20 whiz. (12.5 HP Kaw & Koh).....	10
21	1-303435	Washer, Disc Spring 1/4	6	59	103-0464	Pin,1/8 x 1/2 spring	2
22	103-1631	Latch, thumb LH	1	60	3256-22	Washer,1/4 SAE flat	10
	103-1630	Latch, thumb RH (shown).....	1	61?	103-0235	Screw,1/4-20 x 1 1/8 w/nylon	2
23	3296-42	Nut, Nyloc 1/4-20.....	1	62	103-2465-03	Lever,drive RH	1
24	103-0770-03	Handle weldment.....	1	63	3220-3	Nut,3/8-24 jam	4
25	1-303088	Cable clip	1	64	103-0546-03	Wld,upper handle console	1
26	323-6	Screw, Hex Cap 3/8-16x1.....	4	65	3256-23	Washer,5/16 SAE flat	4
27	1-513508	Cap, Fuel Tank.....	1	66	321-3	Screw,1/4-20 x 5/8 (15 HP Kaw) ...	10
28	1-413179	Tank, Fuel Intermediate	1		321-3	Screw,1/4-20x5/8 (12.5HP Kaw & Koh)	8
29?	1-633023	Stud	2	67	103-2513	Asm,drive lever RH	1
30	1-633349	Spring, Fuel tank.....	2		103-2514	Asm,drive lever LH	1
31	1-805005	Wshr,Lock Hlcl Spg 5/16 Hvy	2	68	103-2463	Joint,.375 ball end	2
32	3296-47	Nut, Nyloc 5/16-18.....	2	69	103-0489-03	Bracket,opc axle	1
33	322-3	Screw, Hex Cap 5/16-18x3/4	2	70	103-1796	Cable,choke push/pull	1
34	1-513645	Bushing, Fuel Valve	1	71	103-1797-01	Bracket,choke cable	1
35	1-543277	Elbow w/Screen	1	72	1-633080	Bushing,Lever lift	1
36	1-303077	Clamp, Fuel line (15 HP Kaw)	4	73	3256-14	Washer, #10 flat	1
	1-303077	Clamp, Fuel line (12.5 HP Kaw).....	5	74	1-303022	Hose,fuel line 8.5" (15 HP Kaw) ..	1
	1-303077	Clamp, Fuel line (Koh)	6	75	1-603776	Hose,fuel line 2.5" (12.5 HP Kaw&Koh)	1
37	1-603955	Hose, Fuel line 6" (12.5 HP Kaw & Koh)	1	76	1-603955	Hose,fuel line 6" (15 HP Kaw)	1
38	1-603770	Valve, Fuel.....	1	77	1-603954	Hose,fuel line 13.75" (Koh)	1
39	1-303022	Hose, Fuel line 8.5" (12.5 HP Kaw)	1	78	1-303335	Tie, Plastic 7 5/16"	1
40	Kawasaki PN 41019-1055	w/6" fuel line	1	79	1-303197	Fuel filter (12.5 HP Kaw & Koh) ...	1
41?	103-1660	Harness, Wiring (12.5 HP Kaw)	1	80	1-303308	Clamp, fuel line (12.5 HP Kaw) ...	1
?	103-1640	Harness, Wiring (15 HP Koh)	1	81	103-0498	Nut, Ignition Switch (15 HP Kaw ..	1
?	103-1610	Harness, Wiring (15 HP Kaw).....	1	82	103-0499	Seal, Ignition Switch (15 HP Kaw)..	1

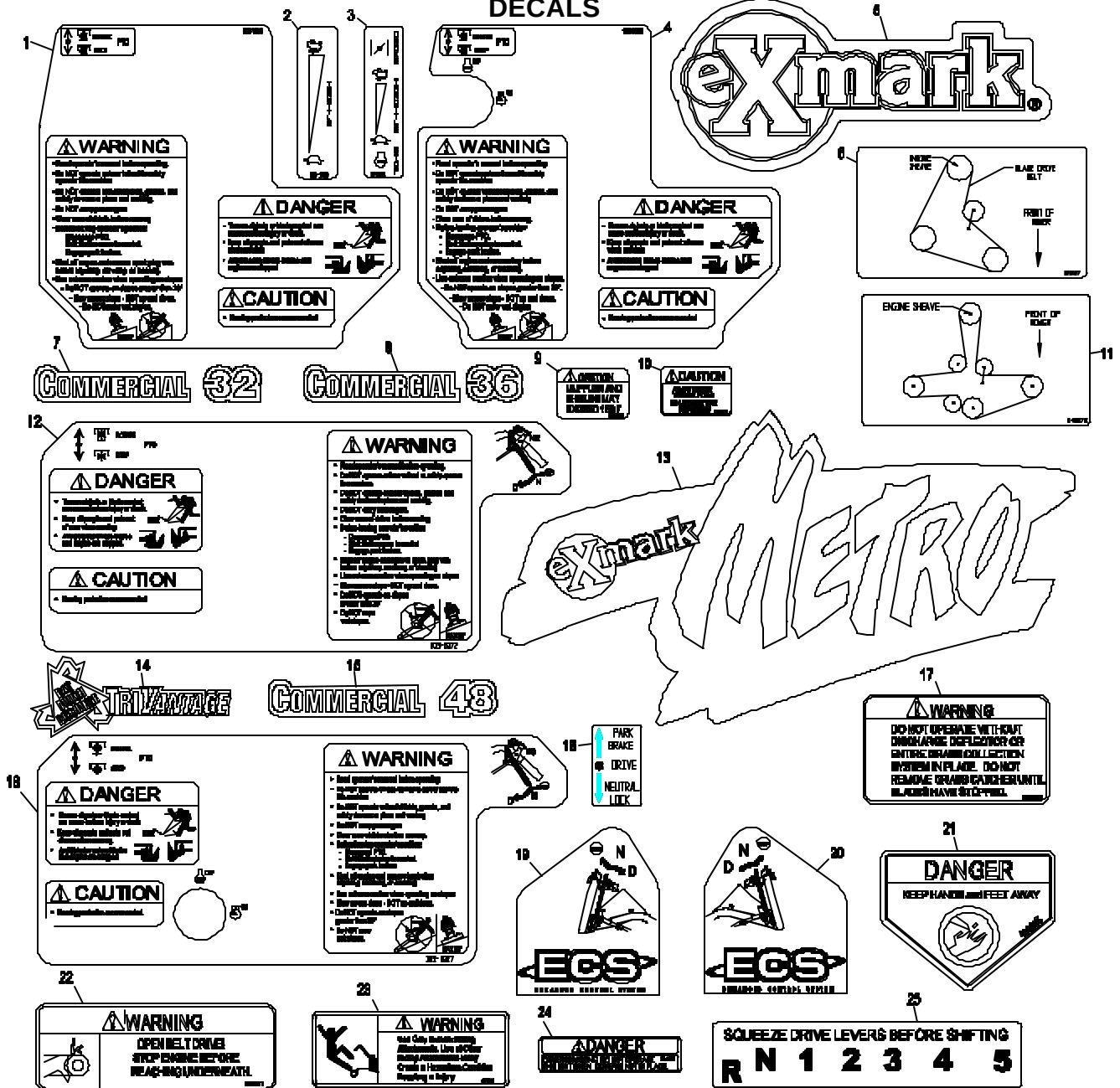
? Use Pro-Lock nut type, Part no. 1-840022 (.5cc tube) on setscrew threads and to thumb latch screws.

? 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.

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DECALS



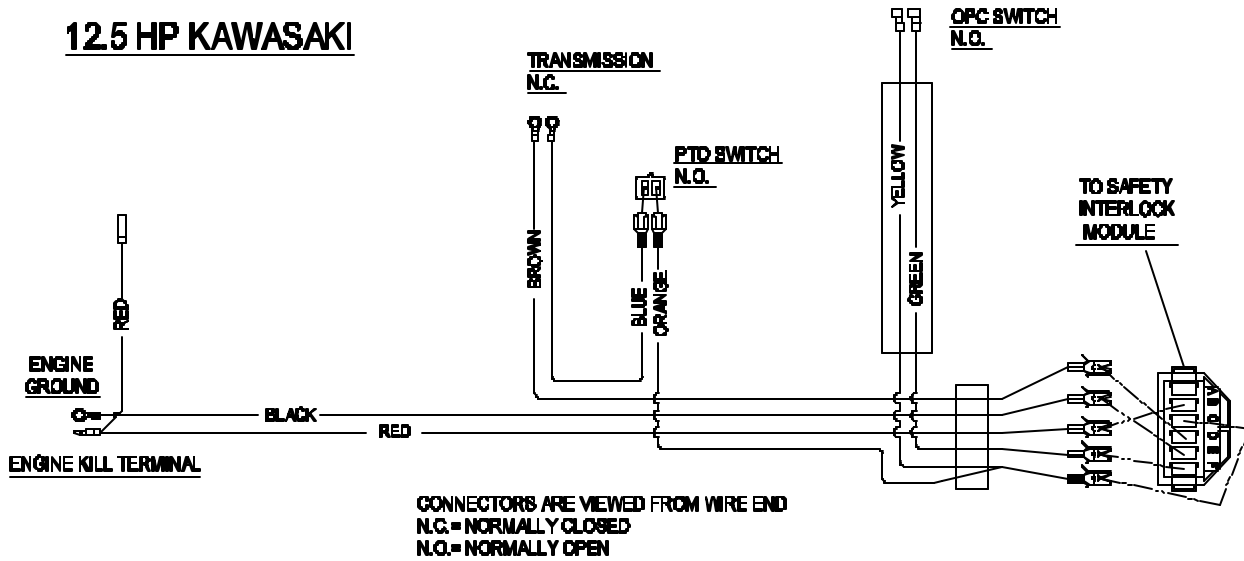
Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1†	103-1641	Decal, Console (12.5 HP Kaw).....	1	14	1-303520	Decal, TriVantage.....	1
2	103-1798	Decal, Throttle (15 HP Kaw).....	1	15	1-403131	Decal, Commercial 48".....	1
3	1-323689	Decal, Throttle (12.5 Kaw, Koh).....	1	16†	1-323550	Decal, Neutral/Brake.....	2
4†	103-1623	Decal, Console (15 HP Kaw).....	1	17	1-303508	Decal, Discharge Warning	1
5	103-1983	Decal, Small Metro	1	18†	103-1967	Decal, Console (15 HP Kaw)	1
6	1-323427	Decal, Belt Routing (32" & 36")	1	19†	103-2245	Decal, RH ECS Instruction	1
7	1-323410	Decal, Commercial 32".....	1	20†	103-2244	Decal, LH ECS Instruction	1
8	1-323411	Decal, Commercial 36".....	1	21	1-403005	Decal, Danger (32" & 36").....	1
9	1-513746	Decal, Muffler.....	1		1-403005	Decal, Danger (48")	2
10	1-303293	Decal, 2 Minute Cool.....	1	22	1-303517	Decal, Belt Drive	1
11	1-403170	Decal, Belt Routing (48").....	1	23	1-403143	Decal, Sulky Warning	1
12†	103-1972	Decal, Console(12.5 Kaw,Koh).....	1	24	98-5954	Decal, Missing Cover.....	1
13	1-323412	Decal, Large Metro.....	1	25	1-303518	Decal, Shifter.....	1
					103-2640	Decal, Kit	

† Standard Pistol Grip units only

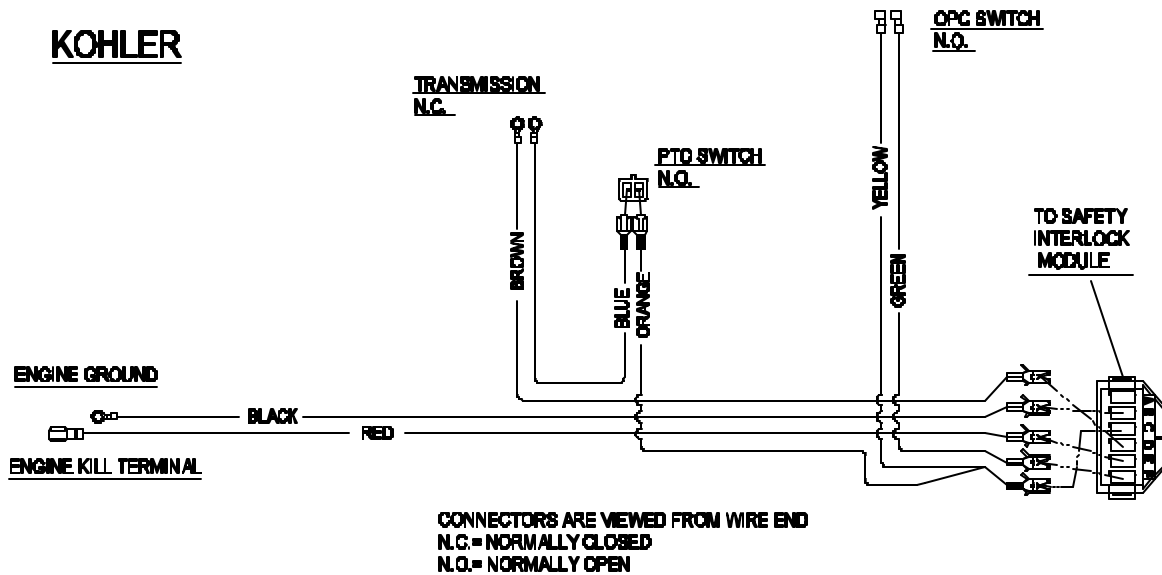
† ECS units only

WIRING DIAGRAMS

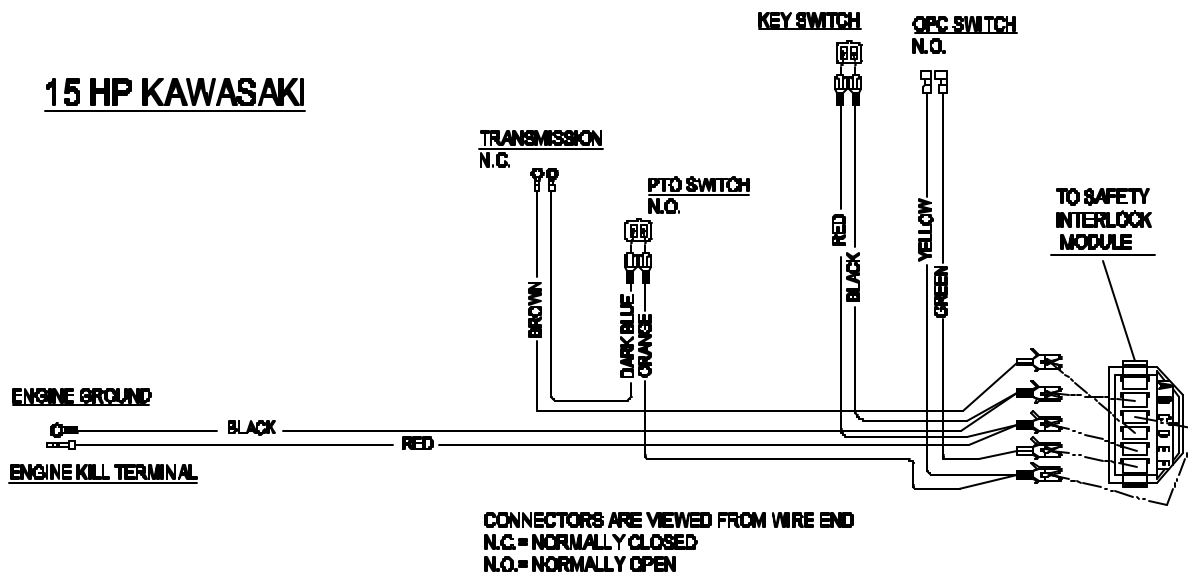
125 HP KAWASAKI



KOHLER



15 HP KAWASAKI



SERVICE RECORD

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NOTES

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