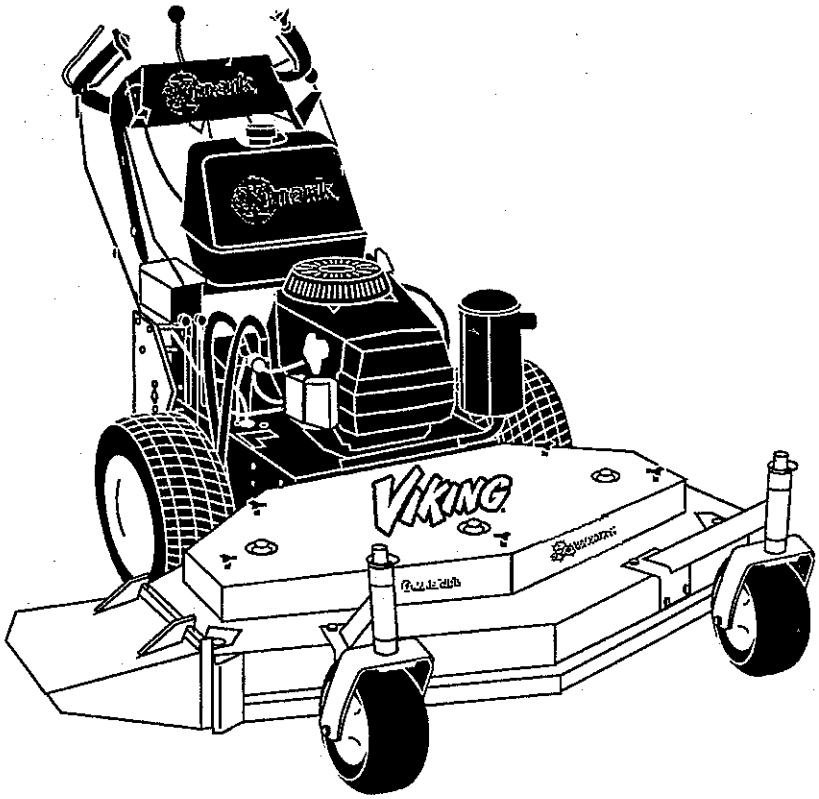
For Serial Nos.
440,000 & Higher

eXmark®
MFG. CO. INC.



PARTS MANUAL

VIKING HYDRO

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) _____

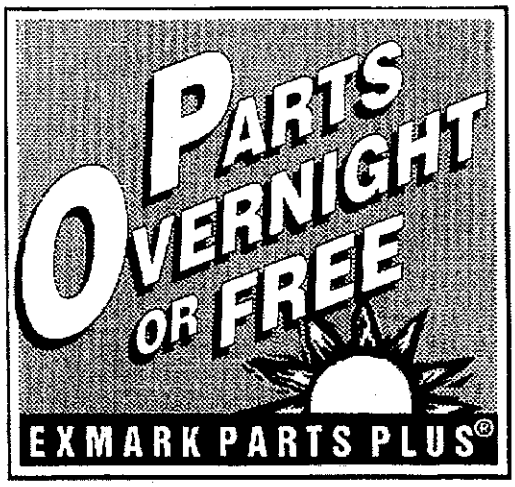
Engine Serial No. (E/No) _____

Date Purchased _____

Part No. 103-4872

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	15
Electrical Group	16
Engine Deck Group	7-10
48" & 52" Mower Deck	5-6
Hydraulics Group	11-12
32" & 36" Mower Deck	3-4
ECS Upper Handles & Controls	13-14
Wiring Diagrams	16

32" and 36" MOWER DECK

Item	Part No.	Description	Qty.
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	Wld, Dogleg Baffle	1
3	322-2	Screw, HH 5/16-18 x 5/8	7
4	32128-20	Nut, Whizlock 5/16-18	22
5	103-3600	Asm, Engagement Arm W/Bushings	1
6	302-52	Zerk, 1/8 NPT Straight	2
7	302-19	Zerk, 1/4-28 Str	1
8	1-323385	Knob, Belt Cover	4
9	1-809020	Quick Pin, 10" Caster	2
10	3296-29	Nut, Nyloc 5/16-18	3
11	323-6	Screw, HH 3/8-16 x 1	6
12	3290-357	Nut, Whizlock 3/8-16	14
13	1-323748	Ring, Push-On 7/16	1
14	98-5975	Washer, Spring Disk 3/8	7
15	1-808280	Pin, Clevis 5/16 x 1	1
16	1-303105	Yoke	1
17	1-806003	Hairpin, Cotter #2	2
18	32151-103	E-Ring	1
19	702809	Screw, HH 3/8-16 x 1 7/8	1
20	103-6584	Blade, Notched (36")	2
●	103-6582	Blade, Mulching (36")	2
	103-6580	Blade, Low Lift (36")	2
	103-1578	Blade, Solid (36")	2
	103-6337	Blade, Extreme (36")	2
	103-6583	Blade, Notched (32")	2
●	103-6581	Blade, Mulching (32)	2
	103-2507	Blade, Low Lift (32")	2
	103-1577	Blade, Solid (32")	2
	103-6336	Blade, Extreme (32")	2
21	1-513338	Washer, Special	2
22	3253-7	Washer, Lock 1/2	2
23	3217-9	Nut, Hex 1/2-13	2
24	325-20	Screw, HH 1/2-13 x 6	2
25	1-303352	Washer, Spindle	1
26	32120-35	E-Ring	1
27	1-323735	Drive Belt (To Blades) 36" Model	1
	1-323733	Drive Belt, (To Blades) 32" Model	1
28◆	1-803310	Setscrew, 5/16-18 x 3/8	2
29	322-6	Screw, HH 5/16-18 x 1 1/4	9
30	3256-23	Washer, 5/16 SAE	1
31	1-303537	Stud, Belt Shield (Short)	2
32	1-303536	Stud, Belt Shield (Long)	2
33	1-303536	Shield (1-302213-01) W/Decals, 36"	1
	103-2589	Shield (1-322149-01) W/Decals, 32"	1
34	1-323417	Washer, Belt Cover Mount	4
35	1-322145-01	Wld, Caster Fork	2
36	103-1236	Asm, Caster Wheel Assembly	2
37	1-302233-01	Chute	1

Item	Part No.	Description	Qty.
38	3296-56	Nut, Nyloc 1/4-20 Thin	1
39	1-323729	Bearing	2
40	323-4	Screw, HH 3/8-16 x 3/4	8
41	1-603843	Pulley, Idler	1
42	103-2555	Asm, Cutter Housing Complete	2
43	322-5	Screw, HH 5/16-18 x 1	2
44✚	103-2547	Asm, Cutter Housing	2
45	302-61	Zerk, 45° 1/4-28	2
46	103-2535	Spacer	2
47	1-403179	Tube, Pivot	1
48	1-303314	Spacer, 10" Caster	8
49✚	1-323529	Tube, Spindle	2
50	321-4	Screw, HH 1/4-20 x 3/4	2
51	1-303514	Flange , Thrust Bearing	4
52	1-323339	Washer	2
53✚	1-403183	Sheave, Blade Driven	2
54	3219-6	Nut, Hex 5/8-18 UNF	2
55	1-800861	Screw, HH 5/8-18 x 8	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	Washer, Spring Disc 5/8	2
59	1-303434	Bushing, Engagement	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	Arm, Assist	1
64	322-10	Screw, HH 5/16-18 x 2	1
65	1-323174	Linkage, Assist Arm	1
66	103-2281	Asm, Caster/Mnt Complete, Weighted	2
67	103-2296	Asm, Caster Wheel Support W/Bearings, Weighted	2
68	103-2297-01	Wld, Caster Wheel Support, Weighted	2
69	1-303334	Washer, Spring Disc 5/16	9
70	1-324372	Asm, Pad/Spring	1
71✚	103-1330	Guard, Bearing Top	2
72	3256-3	Washer, 5/16 Std	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 1/4-20	2
78✳	103-2169	Spacer, Front Caster (Yellow Plated)	2
✖	1-513547	Spacer, Front Caster (Unplated)	2
79	103-2171	Kit, Tire & Wheel Asm W/ Spacer	2
80	1-513809	Roller Bearing	1
81✳	103-2170	Bushing (Groove In Outer Face)	4
✖	1-513810	Bushing (No Groove In Outer Face)	4
82	3219-2	Nut, Hex 5/16-24	1
83	3272-5	Pin, Cotter 3/32 x 1/2	1

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

◆ 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")

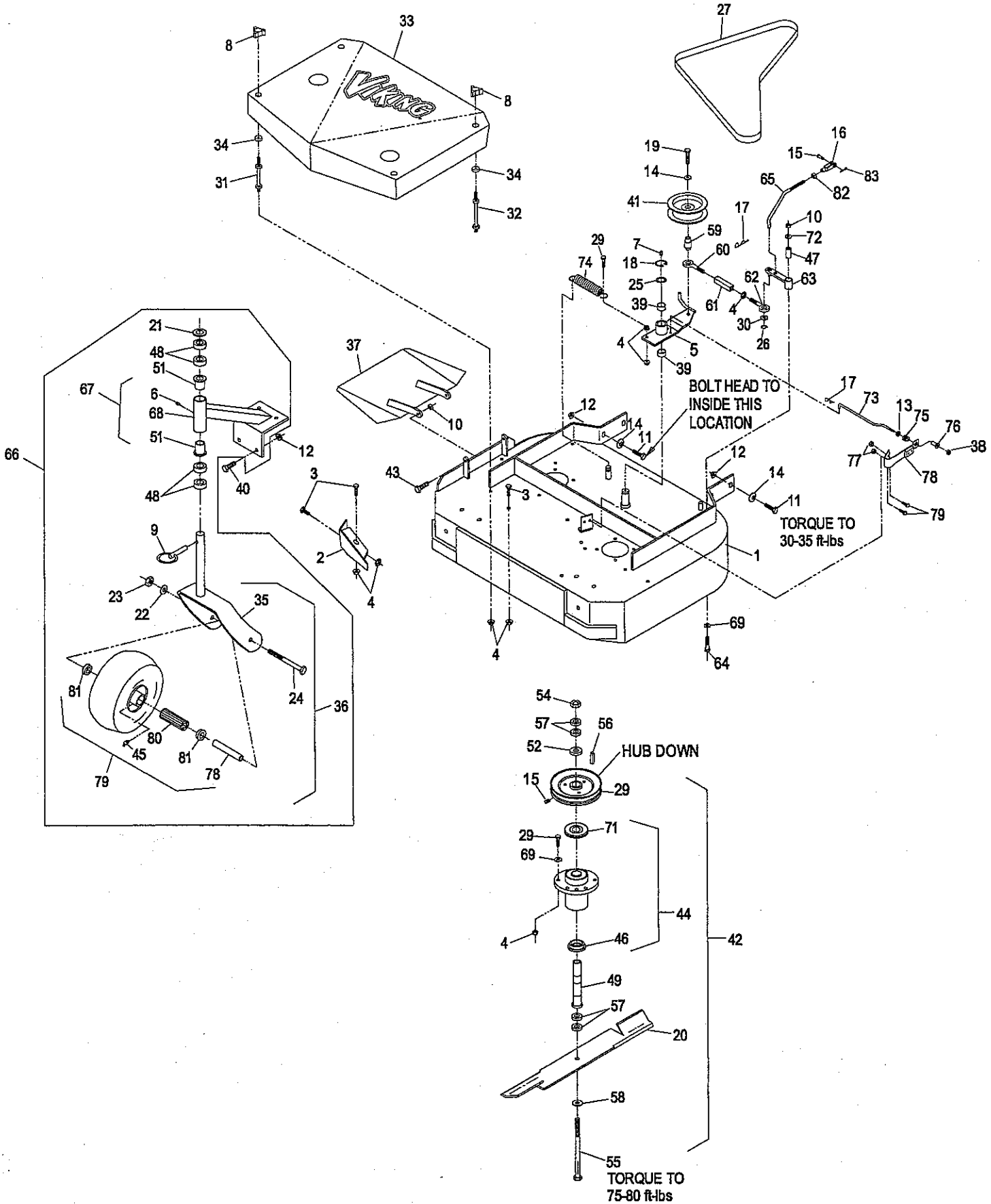
✚ Apply Mobil HTS grease (P/N 103-5217 1.5 oz packet) (or a food-grade anti-sieze) between the spindles & bearings and spindles & sheaves and under top bearing guard. DO NOT use a copper or nickel based anti-sieze.

Units have been built with two versions of the wheel and tire assembly (Kit 103-2171 services both versions). Some components are not interchangeable between versions.

✳ Component required for caster assembly version "A", which can be identified by the following:
1) One sidewall of the tire is stamped "Made in the USA".
2) Front caster spacer (item 78) is yellow plated.
3) Caster bushings (item 81) have a groove in the outer face.

✖ Component required for caster assembly version "B", which can be identified by the following:
1) Sidewalls of tire are not stamped with "Made in the USA".
2) Front caster spacer (item 78) is unplated.
3) Caster bushings (item 81) do not have a groove inouter face.

32" & 36" MOWER DECK



48" and 52" MOWER DECK

Item	Part No.	Description	Qty.
1	1-404257	Deck (1-402108-01) W/Decals & Dogleg (48")	1
	103-5871	Deck (103-5500-01) W/Decals & Dogleg (52")	1
2	1-402107-01	Wld, Dogleg Baffle (48")	1
	1-402057-01	Wld, Dogleg Baffle (52")	1
3	322-2	Screw, HH 5/16-18 x 5/8	4
4	32128-20	Nut, Whizlock 5/16-18	12
5	3296-29	Nut, Nyloc 5/16-18	3
6	323-7	Screw, HH 3/8-16 x 1 1/4 HH	18
7	3290-357	Nut, Whizlock 3/8-16 (48")	17
	3290-357	Nut, Whizlock 3/8-16 (52")	21
8	98-5975	Washer, Spring Disk 3/8 (48")	10
	98-5975	Washer, Spring Disk 3/8 (52")	12
9	1-808280	Pin, Clevis 5/16 x 1	1
10	1-303105	Yoke	1
11	1-613098	Pulley, Idler Pulley	1
12	32151-103	E-Ring	1
13	103-6583	Blade, Notched (48")	3
●	103-6581	Blade, Mulching (48")	3
	103-2507	Blade, Low Lift (48")	3
	103-1577	Blade, Solid (48")	3
	103-6336	Blade, Extreme (48")	3
	103-6584	Blade, Notched (52")	3
●	103-6582	Blade, Mulching (52")	3
	103-6580	Blade, Low Lift (52")	3
	103-1578	Blade, Solid (52")	3
	103-6337	Blade, Extreme (52")	3
14	1-323174	Linkage, Assist Arm (48")	1
	1-403111	Linkage, Assist Arm (52")	1
15◆	1-803310	Setscrew, 5/16-18 x 3/8	3
16	323-13	Screw, HH 3/8-16 x 2 3/4	2
17	3296-42	Nut, Nyloc 1/4-20	2
18	1-403186	Pully, Idler	1
19	103-2555	Asm, Cutter Housing Complete	3
20✚	103-2547	Asm, Cutter Housing	3
21	302-61	Zerk, 45° 1/4-28	2
22	103-2535	Spacer	3
23	1-513809	Bearing, Roller	2
24	702809	Screw, HH 3/8-16 x 1 7/8	1
25✚	1-323529	Tube, Spindle	3
26	32120-35	E-Ring	1
27	3296-39	Nut, Nyloc 3/8-16	18
28	1-807267	Key, 1/4 x 3/16 x 1 1/4	3
29✚	1-403183	Sheave, Blade Driven	3
30	1-513208	Washer Spring Disk 5/8	3
31	1-800861	Screw, HH 5/8-18x8	3
32	1-323539	Spacer, Blade Drive	12
33	1-323339	Washer	3
34	1-322235	Arm, Assist	1
35	3219-6	Nut, Hex 5/8-18 UNF	3
36	1-303434	Bushing, Engagement	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	Hairpin, Cotter #2	2
42	1-303352	Washer, Spindle	1
43	322-10	Screw, HH 5/16-18 x 2	1
44	1-323729	Bearing	2

Item	Part No.	Description	Qty.
45	1-303334	Washer, Spring Disk 5/16	1
46	103-3600	Asm, Engagement Arm W/Bushings	1
47	322-6	Screw, HH 5/16-18 x 1 1/4	1
48	302-19	Zerk 1/4-28 Str	1
49	3256-24	Washer, 3/8 SAE	2
50	323-20	Screw, HH 3/8-16 x 3 1/4	1
51	3296-56	Nut, Nyloc 1/4-20 Thin	1
52	1-402106-01	Wld, Chute (48")	1
	1-602571-01	Wld, Chute (52")	1
53	1-403179	Tube, Pivot	1
54	3256-3	Washer, Flat 5/16 Std	1
55	1-323714	Rod, Brake (48")	1
	103-5602	Rod, Brake (52")	1
56	1-324372	Asm, Pad/Spring	1
57	3256-23	Washer, 5/16 SAE	1
58	1-603843	Pulley, Idler	1
59	1-403174	Belt, Drive (Main Deck) (48")	1
	103-4516	Belt, Drive (Main Deck) (52")	1
60	1-323746	Spacer, Flanged	1
61	1-403184	Bushing	2
62	322-5	Screw, HH 5/16-18 x 1	2
63	1-323071	Spring	1
64✚	103-1330	Guard, Bearing Top	3
65	103-2281	Asm, Caster/Mnt Complete, Weighted	2
66	103-2296	Caster Wheel Support W/Bearings, Weighted	2
67	103-2297-01	Wld, Caster Wheel Support, Weighted	2
68	302-52	Zerk, 1/8 NPT	2
69	1-303514	Flange, Thrust Bearing	4
70	1-303314	Spacer, 10" Caster	8
71	103-1236	Asm, Caster Wheel	2
72	1-322145-01	Wld, Caster Fork	2
73	321-4	Screw, HH 1/4-20 x 3/4	2
74	1-323748	Ring, Push-On 7/16	1
75	1-323417	Washer, Belt Cover Mount	5
76	323-4	Screw, HH 3/8-16 x 3/4	8
77	325-20	Screw, HH 1/2-13 x 6	2
78	3217-9	Nut, Hex 1/2-13	2
79	3253-7	Washer, Lock 1/2	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	1-404237	Shield (1-402100-01)W/Decals (48")	1
	1-402071	Shield (1-402069-01)W/Decals (52")	1
86	1-403188	Spacer, Belt Guide	1
87	323-6	Screw, HH 3/8-16 x 1	6
88✻	103-2169	Spacer, Front Caster (Yellow Plated)	2
✖	1-513547	Spacer, Front Caster (Unplated)	2
89	103-2171	Kit, Tire & Wheel Asm W/ Spacer	2
90✻	103-2170	Bushing (Groove In Outer Face)	4
✖	1-513810	Bushing (No Groove In Outer Face)	4
91	3219-2	Nut, Hex 5/16-24	1
92	3272-5	Pin, Cotter 3/32 x 1/2	1
93	1-373034	Washer, Swivel (52")	2
94✧	1-603299	Roller, Anti Scalp (52")	2
95	99-2842	Spacer (52")	2
96	1-513291	Bumper (52")	1

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

◆ 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.

✚ Apply Mobil HTS grease (P/N 103-5217 1.5 oz packet) (or a food-grade anti-sieze) between the spindles & bearings and spindles & sheaves and under top bearing guard. DO NOT use a copper or nickel based anti-sieze.

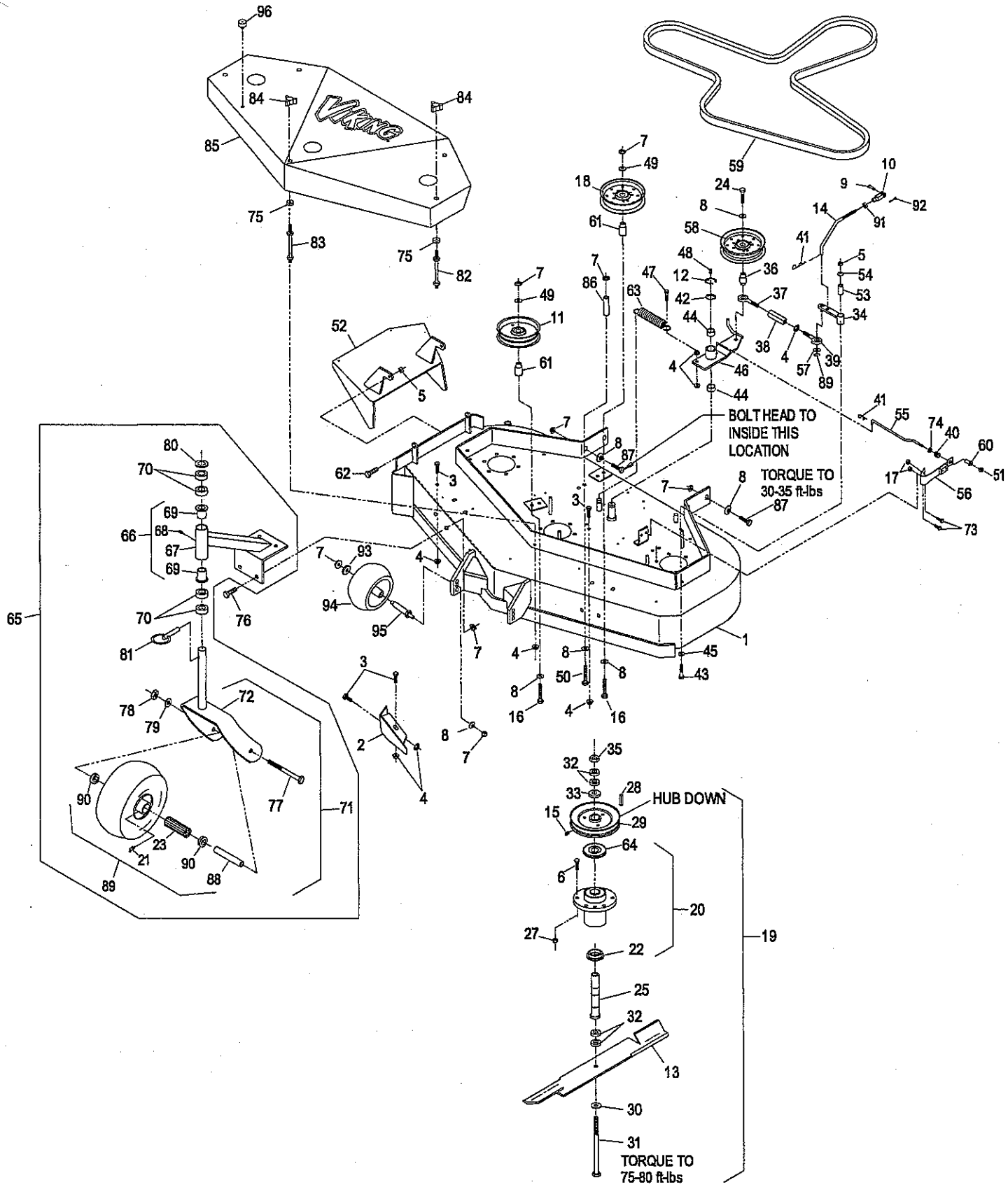
✧ Kit 103-3168 includes antiscalp roller, bushing, and mounting hardware.

Units have been built with two versions of the wheel and tire assembly (Kit 103-2171 services both versions). Some components are not interchangeable between versions

✻ Component required for caster assembly version "A", which can be identified by the following:
1) One sidewall of the tire is stamped "Made in the USA".
2) Front caster spacer (item 88) is yellow plated.
3) Caster bushings (item 90) have a groove in the outer face.

✖ Component required for caster assembly version "B", which can be identified by the following:
1) Sidewalls of tire are not stamped with "Made in the USA".
2) Front caster spacer (item 88) is unplated.
3) Caster bushings (item 90) do not have a groove inouter face.

48" and 52" MOWER DECK



ENGINE DECK GROUP

Item	Part No.	Description	Qty.
1	1-807019	Key, Woodruff 1 x 1/4	2
2	32136-5	Nut, Slotted 3/4-16	2
3	1-806800	Pin, Cotter 9/64 x 1-1/2	2
4	242-50	Nut, Wheel 1/2-20	8
5	103-2292	Tire & Wheel Assembly (32")	2
	103-2305	Tire 16 x 4.80-8 (32")	1
	103-2306	Wheel (32")	1
	1-413473	Tire & Wheel Assembly (36")	2
	1-413474	Tire 16 x 6.50-8 (36")	1
	1-603715	Wheel (36")	1
	1-613263	Tire & Wheel Assembly (48" & 52")	2
	1-613264	Tire 16 x 7.50-8 (48" & 52")	1
	1-603715	Wheel (48" & 52")	1
6	1-602997	Hub, Tapered (4 Bolt) W/Stds	2
	1-633926	Stud, Wheel 1/2-20	8
7	3234-12	Screw, Whizlock 3/8-16 x 3/4	8
8	323-6	Screw, HH 3/8-16 x 1	8
9	98-5975	Washer, Spring Disc 3/8	8
10	103-2289-01	Mount, Motor (32" & 36")	2
	1-402062-01	Mount, Motor (48" & 52")	2
11	1-523157	Washer, Spacer	2
12	1-373034	Washer,	3
13	1-303334	Washer, Spring Disc 5/16	4
14	1-603610	Washer, Spring Disc 7/16	2
15✚	103-1667	Sheave, Blade Drive 7.33 OD (32" & 48")	1
✚	103-1668	Sheave, Blade Drive 6.71 OD (36" & 52")	1
16	1-322110	Guide, Belt	1
17	1-807259	Key, Machine 1/4 x 1/4 x 1	2
18	322-9	Screw, HH 5/16-18 x 1 3/4	1
19	323-13	Screw, HH 3/8-16 x 2 3/4	3
20	1-603843	Pulley, Idler	1
21	1-603496	Bushing, Idler	1
22	3231-29	Bolt, Carriage 3/8-16 x 1 3/4	1
23	3253-5	Washer, Lock 3/8 Heavy	1
24	323-12	Screw, HH 3/8-16 x 2-1/2	1
25	1-633181	Plate, Tapped	1
26	103-4681	Bearing, Pivot	2
27	1-602521	Asm, Idler Arm (W/Bearing)	1
28	1-603402	Spring, Extension	1
29	322-5	Screw, HH 5/16-18 x 1	1

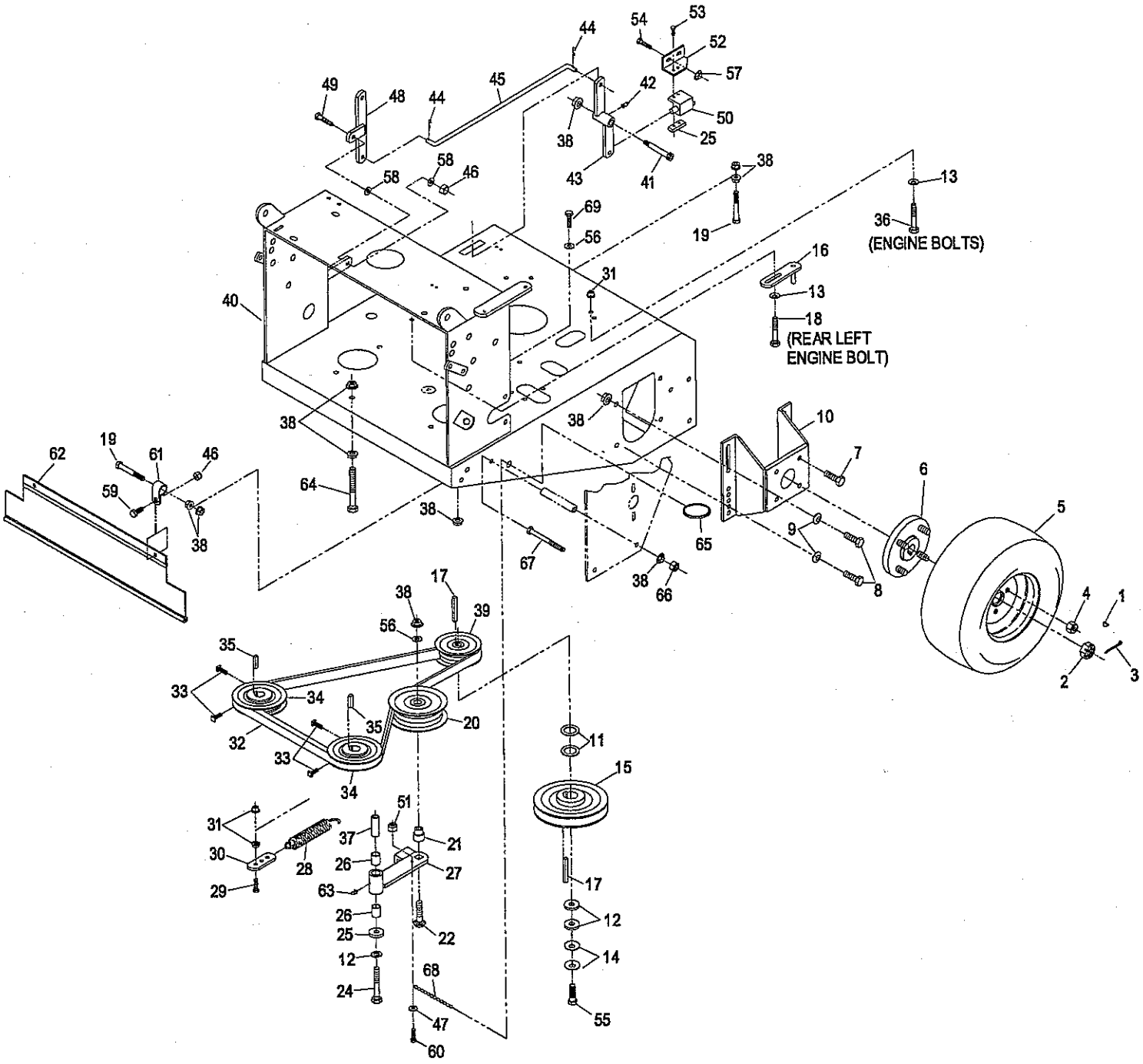
Item	Part No.	Description	Qty.
30	1-603801	Anchor, Spring	1
31	32128-20	Nut, Whizlock 5/16-18	6
32	103-4760	Belt, Pump Drive	1
33✧	1-803050	Setscrew, 5/16-18 x 3/4	4
34✚	1-413010	Sheave – Pump	2
35	1-807272	Key, 5mm Sq x 25mm	2
36	322-7	Screw, HH 5/16-18 x 1 1/2	3
37	1-603044	Bushing, Idler Pivot	1
38	3290-357	Nut, Whizlock 3/8-16	20
39✚	1-653035	Pulley, Pump Drive	1
40	103-3500	Deck, Eng(103-6495-01)W/Decals	1
41	1-809062	Bolt, Shoulder 1/2 x 1 3/4	1
42	302-40	Zerk, 90° 1/4-28	1
43	1-322108	Asm, Bellcrank W/Zerk	1
	1-322086-01	Wld, Bellcrank	1
44	1-806003	Hairpin, Cotter	2
45	1-323172	Linkage, Blade Engage	1
46	3296-29	Nut, Nyloc 5/16-18	3
47	3256-14	Washer, #10 Std	1
48	1-322090-01	Bellcrank	1
49	322-6	Screw, HH 5/16-18 x 1 1/4	1
50	1-513051	Switch, Blade Engagement	1
51	3296-2	Nut, Nyloc 10-24	1
52	1-323213	Bracket, Switch	1
53	3290-500	Screw, PPH #10-24 x 5/8	2
54	321-3	Screw, HH 1/4-20 x 5/8	2
55✧	3212-6	Screw, HH 7/16-20 x 1 1/2	1
56	3256-24	Washer, 3/8 SAE	2
57	32128-33	Nut, Whizlock 1/4-20	2
58	3256-23	Washer, 5/16 SAE	2
59	322-3	Screw, HH 5/16-18 x 3/4	2
60	1-809069	Screw, Socket Hd 10-24 x 7/8	1
61	1-413510	Clip, Loom 1/2	2
62	103-2056	Shield, Trailing	1
63	302-19	Zerk 1/4-28 Str	1
64	323-11	Screw, HH 3/8-16 x 2 1/4	1
65	1-323366	Split Ring	1
66	3296-39	Nut, Nyloc 3/8-16	1
67	323-23	Screw, HH 3/8-16 x 4-1/2	1
68	1-323365	Chain, Twist Link	1
69	323-7	Screw, HH 3/8-16 x 1 1/4	1

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

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

✚ Apply anti-seize compound on pulley bore.

ENGINE DECK GROUP



ENGINE DECK GROUP (cont.)

Item	Part No.	Description	Qty.
1	1-413151	Knob, Tracking	1
2	1-412203-01	Wld, Crank	1
3✧	1-809056	Bolt, Socket Hd 3/8 x 3/8 (Shoulder)	2
4	3256-24	Washer, 3/8 SAE	4
5	1-603735	Bushing, Flanged	2
6	103-0265	Spring, Neutral Return	2
7	1-603737	Bolt, Neutral Return	2
8	3256-2	Washer, 1/4 Std	6
9	3219-2	Nut, Hex 5/16-24	7
10	1-413350	Rod, Control Arm	2
11	1-603903	Spacer	1
12	1-303105	Yoke, Adjustable	2
13	1-808280	Pin, Clevis 5/16-1	2
14	3220-2	Nut, Jam 5/16-24	2
15	3272-5	Pin, Cotter 3/32 x 1/2	2
16	1-603676	Swivel	2
17	1-403180	Screw, HH 5/16-18 x 1 1/4 Sp	2
18	103-1190-01	Wld, Arm (LH)	1
19	103-1964	Hose, 24" Oil Drain	1
20✚	103-1965	Valve, Oil Drain	1
21	103-1966	Adapter, M20-2.5 / 3/8 Npt	1
22	322-6	Screw, HH 5/16-18 x 1 1/4	3
23	1-603693	Spring, Extension	2
24	1-323197-01	Spacer, Short	4
25	323-16	Screw, HH 3/8-16 x 4	7
26	322-3	Screw, HH 5/16-18 x 3/4	4
27	103-4753-01	Shield, Hydro Control	2
28	1-323195-01	Spacer, Long	4
29	1-633102	Bearing, Flange	2
30	302-19	Zerk 1/4-28 Str	2
31	3256-23	Washer, 5/16 SAE	7
32	1-805005	Washer, Lock 5/16 Heavy	4
33	103-4796-01	Wld, Arm (RH)	1
34	32128-20	Nut, Whizlock 5/16-18	20
35	1-613089	Anchor, Spring	2

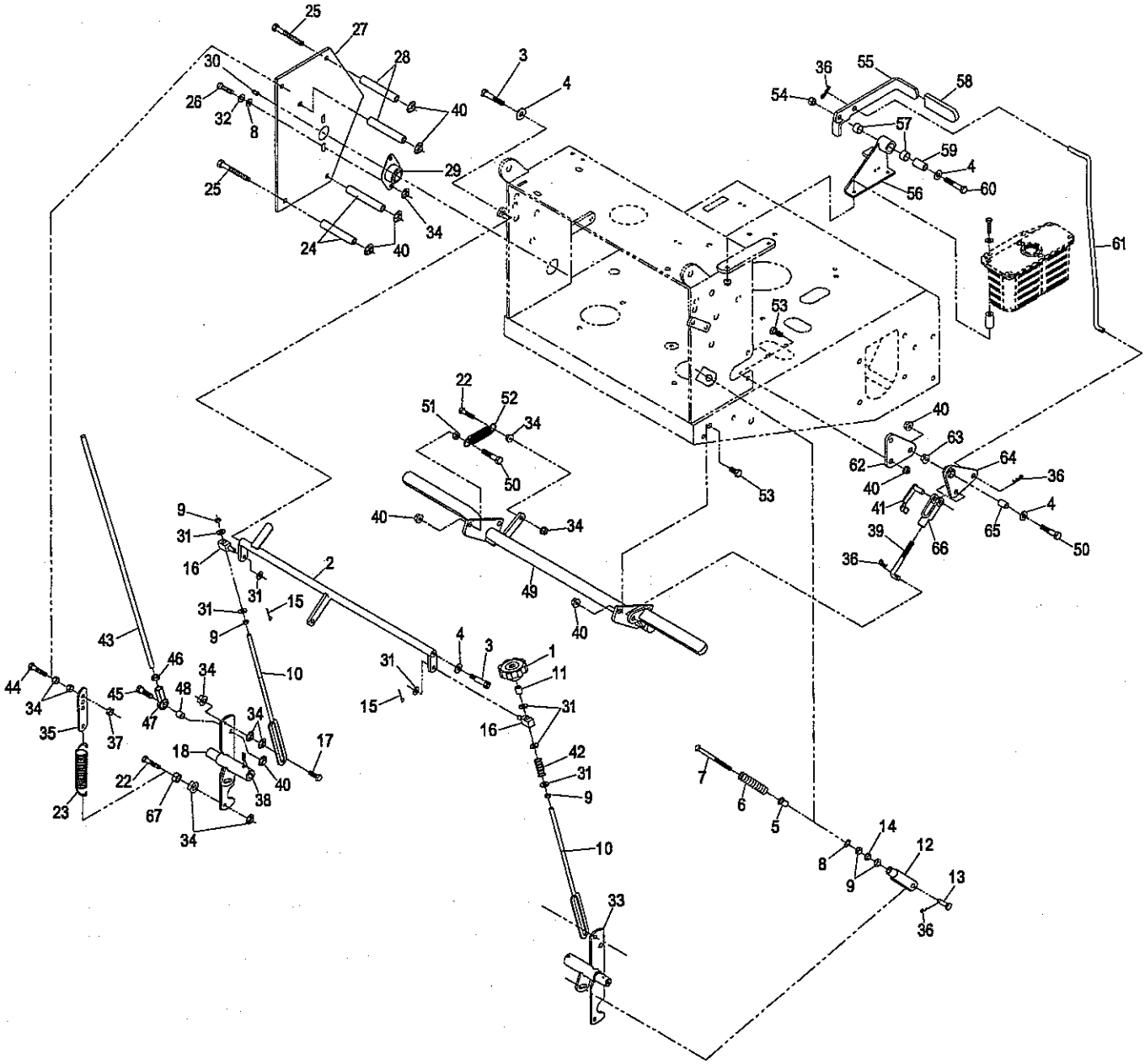
Item	Part No.	Description	Qty.
36	1-806003	Hairpin, Cotter	5
37	3296-29	Nut, Nyloc 5/16-18	2
38✧	1-803022	Setscrew, 5/16-18 x 5/8	2
39	1-413489	Linkage, Lower Brake	1
40	3290-357	Nut, Whizlock 3/8-16	16
41	103-2399	Pin, Clevis Spring 3/8	1
42	1-323245	Spring	1
43	103-1734	Linkage, Drive	2
44	1-800016	Bolt, HH 5/16-18 x 1 1/4 Tap	2
45	323-8	Screw, HH 3/8-16 x 1 1/2	2
46	3220-16	Nut, Jam 3/8-24 LH	2
47	103-1167	Joint, .375 LH Ball End	2
48	103-1166	Tube, Pump Link Spacer	2
49	103-2299-03	Wld, Brake (32")	1
	103-2085-03	Wld, Brake (36")	1
	103-2004-03	Wld, Brake (48" & 52")	1
50	323-9	Screw, HH 3/8-16 x 1 3/4	2
51	3218-3	Nut, Jam 3/8-16	1
52	1-323161	Spring	1
53	323-4	Screw, HH 3/8-16 x 3/4	5
54	3296-39	Nut, Nyloc 3/8-16	1
55	103-3495	Lever, Brake (1-412501-03) W/Decal & Grip	1
56	1-414504	Wld, Bracket W/ Bushings	1
57	1-413347	Sleeve, Bushing	2
58	1-303020	Grip, Lever	1
59	1-413344	Bushing, Pivot	1
60	323-10	Screw, HH 3/8-16 x 2	1
61	1-413496	Linkage, Upper Brake	1
62	1-413497	Bracket, Bellcrank	1
63	32128-21	Nut, Whizlock 3/8-16	1
64	1-414508	Bellcrank, W/ Bushings	1
65	1-303548	Bushing, Plastic	1
66	1-633131	Yoke, Brake Linkage	1
67	3218-2	Nut, Jam 5/16-18	2

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

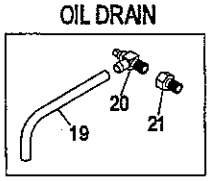
✧ Use Pro-Lock nut type, Part No. 1-840022 (.5 ml tube) on shoulder bolts & setscrew threads.

✚ Use a Teflon Pipe Sealant or equivalent on pipe threads.

ENGINE DECK GROUP (cont.)



OIL DRAIN



HYDRAULIC GROUP

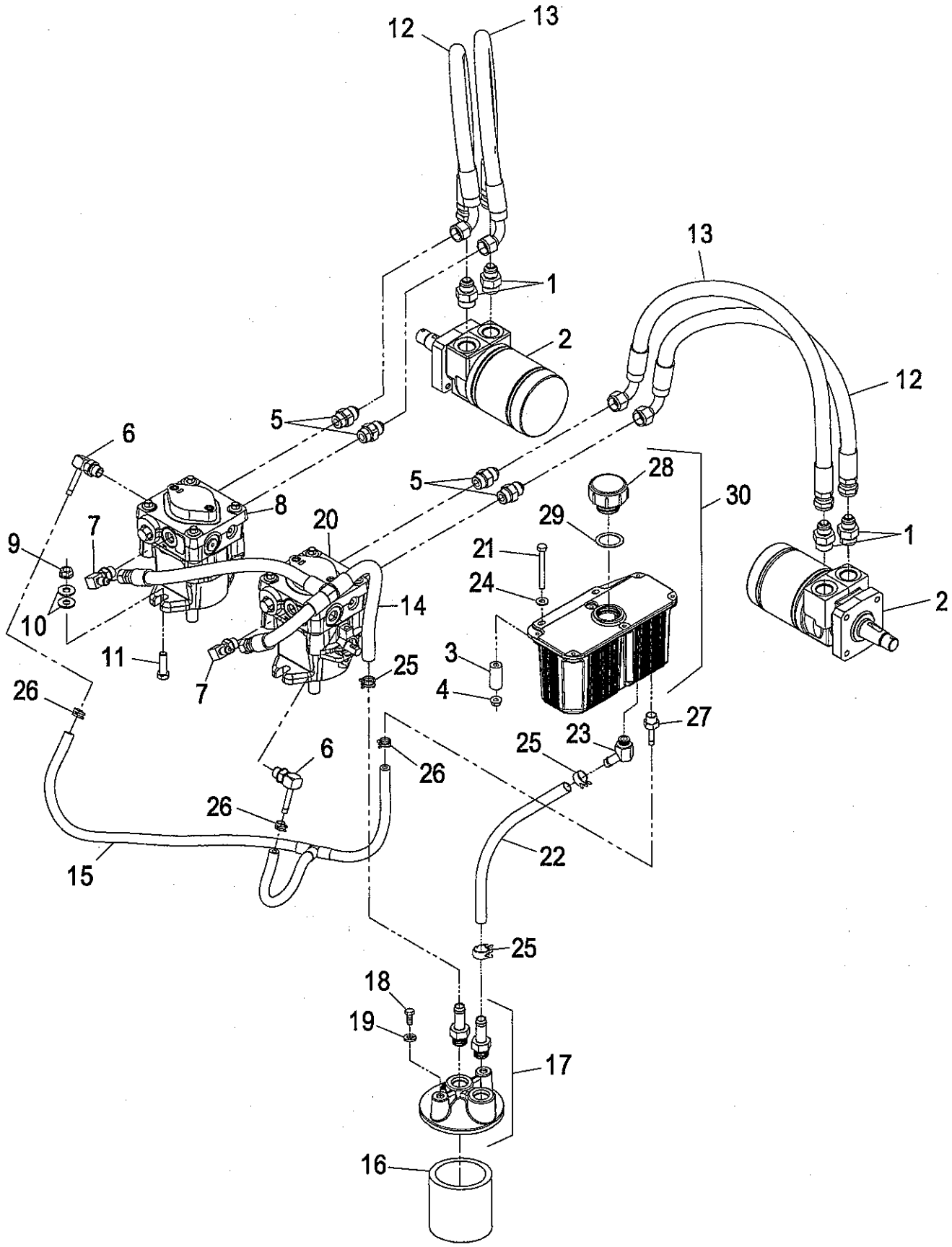
Item	Part No.	Description	Qty.
1	1-603991	Fitting, Straight Connector	4
	1-603919	O-Ring	1
	1-603992	O-Ring	1
2	1-603718	Wheel Motor	2
	1-000138	Kit, Bearing	1
	1-000119	Kit, Seal	1
3	103-2191	Spacer, Hydraulic Tank	2
4	32128-33	Nut, Whizlock 1/4-20	2
5	1-603990	Adapter, Straight Thread	4
	1-603920	O-Ring	1
	1-603992	O-Ring	1
6	103-1799	Elbow, 90°	2
	1-603921	O-ring	1
7	103-1802	Elbow, 90°	2
	1-603921	O-ring	1
8	103-4247	Pump, Hydro	1
	103-2664	Kit, Input Shaft 10A	1
	94-6922	Kit, Thrust Bearing 10A	1
	103-2666	Kit, Cylinder Block 10A	1
	105-6184	Kit, Overhaul Seal	1
9	3290-357	Nut, Whizlock 3/8-16	4
10	3256-3	Washer, 5/16 Std	8
11	323-7	Screw, HH 3/8-16 x 1-1/4	4
12	1-613034	Hose, Hydro	2
13	1-323241	Hose, Hydro	2
14	103-3914	Asm, Charge Hose	1

Item	Part No.	Description	Qty.
15	103-4019	Asm, Case Drain Hose	1
16	1-513211	Element, Oil Filter	1
▲	1-523541	Element, Oil Filter(Winter)	1
17	103-2889	Asm, Filter Head	1
	103-1912	Adapter, Straight	2
	1-603921	O-Ring	1
18	321-3	Screw, HH 1/4-20 x 5/8	2
19	1-805004	Washer, Lock 1/4 Heavy	2
20	103-4611	Pump, Hydro	1
	103-2664	Kit, Input Shaft 10A	1
	94-6922	Kit, Thrust Bearing 10A	1
	103-2666	Kit, Cylinder Block 10A	1
	105-6184	Kit, Overhaul Seal	1
21	321-15	Screw, HH 1/4-20 x 2 1/2	2
22	103-2959	Hose, Charge	1
23	103-1807	Elbow, 45°	1
	1-603921	O-Ring	1
24	3256-22	Washer, 1/4 SAE	2
25	103-1988	Clamp, Hose 11/16	3
26	103-1716	Clamp, Hose 17/32	3
27	103-1801	Adapter, Straight	1
	1-603921	O-Ring	1
28	103-1948	Cap, Hydraulic Reservoir	1
29	103-1949	Gasket, Reservoir Cap	1
30	103-1947	Asm, Reservoir W/Decal	1

Exmark black touch up spray paint – Gloss black.

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

HYDRAULIC GROUP



ECS UPPER HANDLE and CONTROLS

Item	Part No.	Description	Qty.
1	1-323134	Knob, (Push/Pull)	1
2	3218-2	Nut, Jam 5/16-18	1
3	1-323143	Bushing, Nylon .38 I.D.	1
4	1-323142	Push Nut (.50 Shaft)	1
5	322-9	Screw, 5/16-18 x 1 3/4	2
6	3296-29	Nut, Nyloc 5/16-18	4
7	1-806003	Hairpin, Cotter	3
8	103-2193	Link, Blade Engagement	1
9	103-1796	Cable, Choke	1
10	103-1797-01	Bracket, Choke Cable	1
11▲	103-1566-03	Wld, OPC Lever LH	1
12✚	1-803322	Setscrew, 5/16-24 x 5/16	2
13	1-303365	Bushing, Nylon	2
14	103-0769-03	Wld, OPC Axle Lever	1
15	1-303363	Spring, OPC Extension	1
16▲	103-1567-03	Wld, OPC Lever RH	1
17	1-807513	Bolt, Carriage #10-24 x 1/2	2
18	1-513592	Knob, Red Throttle	1
19	1-633696	Cable, Throttle	1
20	3296-2	Nut, Nyloc, #10-24	2
21	103-2194-03	Wld, Upper Handle ECS	1
22	103-0815	Grip, Handle Bar	2
23	1-413152	Bearing	4
24	103-2466-03	Lever, Drive LH	1
25	103-0027	Bushing, Drive Lever	2
26	321-14	Screw, HH 1/4-20 x 2 3/4	2
27	32128-33	Nut, 1/4-20 Whizlock	14
28	103-0464	Pin, Spring 1/8 x 1/2	2
29	3256-22	Washer 1/4 SAE	10
30	1-303435	Washer, Spring Disc 1/4	6
31	103-1371	Thumb Latch Asm RH(Shown)	1
	103-1372	Thumb Latch Asm LH(Not Shown)	1
32✚	103-0235	Screw, HH 1/4-20 x 1 1/8 W/Nylon	2
33	103-2465-03	Lever, Drive RH	1
34	3290-357	Nut, Whizlock 3/8-16	4

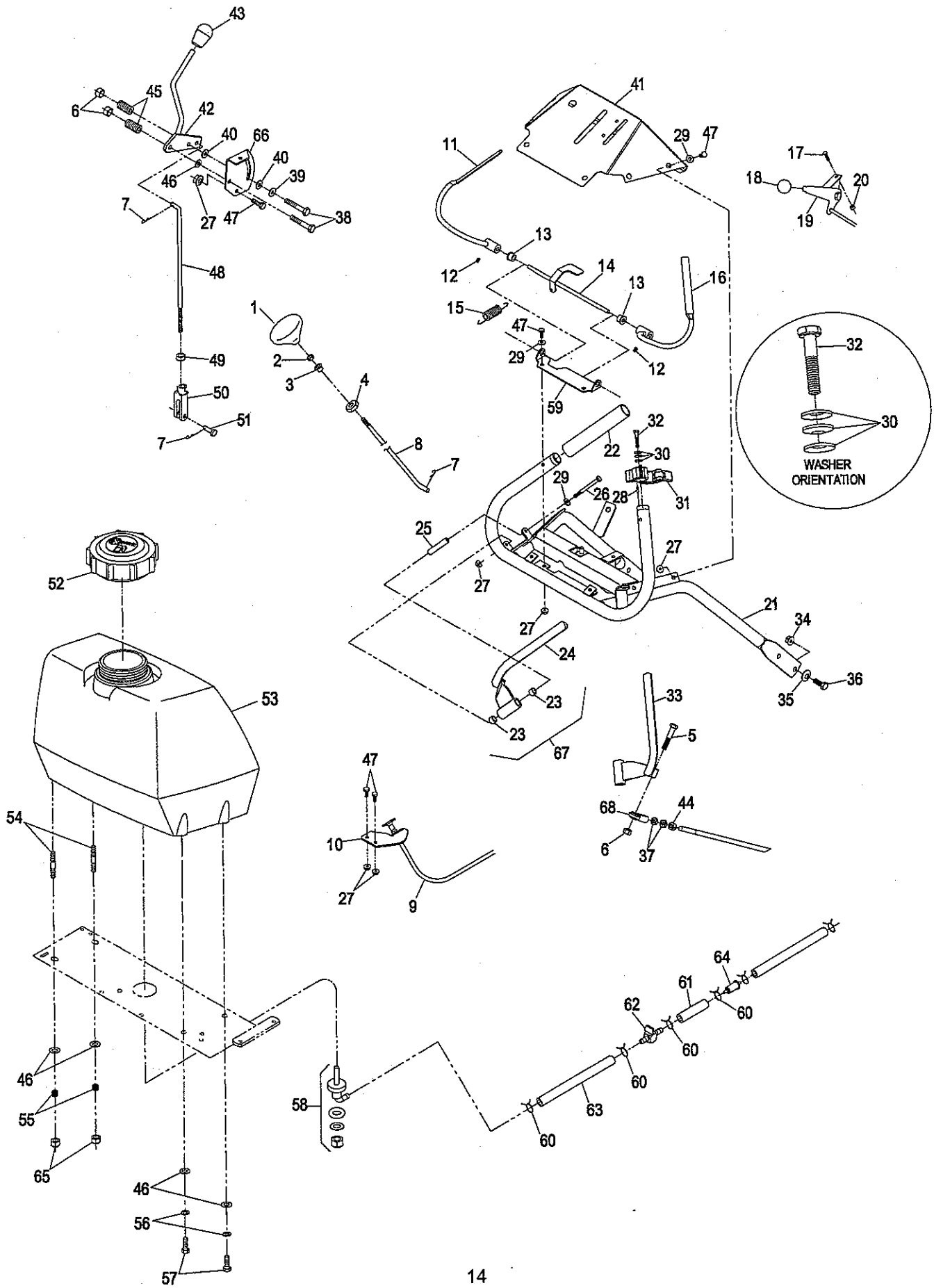
Item	Part No.	Description	Qty.
35	98-5975	Washer, Spring Disk 3/8	4
36	323-6	Screw, HH 3/8-16 x 1	4
37	3220-3	Nut, Jam 3/8-24	4
38	322-10	Screw, HH 5/16-18 x 2	2
39	1-603716	Washer, Friction Disc	1
40	1-323244	Washer, Friction	2
41	103-2912	Asm, Console(103-0546-03) W/Decals	1
42	103-0773	Wld, Speed Shift	1
43	103-0423	Knob, Nyloc 3/8-16	1
44	3219-3	Nut, Hex 3/8-24	2
45	1-323245	Spring, Compression	2
46	3256-23	Washer 5/16 SAE	5
47	321-3	Screw, HH 1/4-20 x 5/8	12
48	1-323522	Rod, Speed Control	1
49	3220-2	Nut, Jam 5/16-24	1
50	1-303105	Yoke	1
51	1-808280	Pin, Clevis 5/16 x 1	1
52	103-2107	Cap, Fuel	1
53	103-2893	Asm, Fuel Tank W/Fitting	1
54▲	1-633023	Stud, Fuel Tank	2
55	1-633349	Spring, Fuel Tank	2
56	1-805005	Washer, Lock 5/16 Heavy	2
57	322-3	Screw, HH 5/16-18 x 3/4	2
58✚	103-2605	Fitting, Fuel Bulkhead W/Strainer	1
59	103-0489-03	Bracket, Opc Axle	1
60	1-303077	Clamp, Fuel Line	4
61	1-603955	Hose, Fuel Line 6"	1
62	1-603770	Valve, Fuel	1
63	1-303022	Hose, Fuel Line 8.5"	1
64	**Kawasaki**	PN 41019-1055 Filter W/6" Fuel Line	1
65	3296-47	Nut, Nyloc 5/16-18	2
66	103-0503	Bracket, Shifter Slide	1
67	103-2513	Asm, Drive Lever RH	1
	103-2514	Asm, Drive Lever LH	1
68	103-2463	Balljoint	2

Exmark black touch up spray paint – Gloss black.

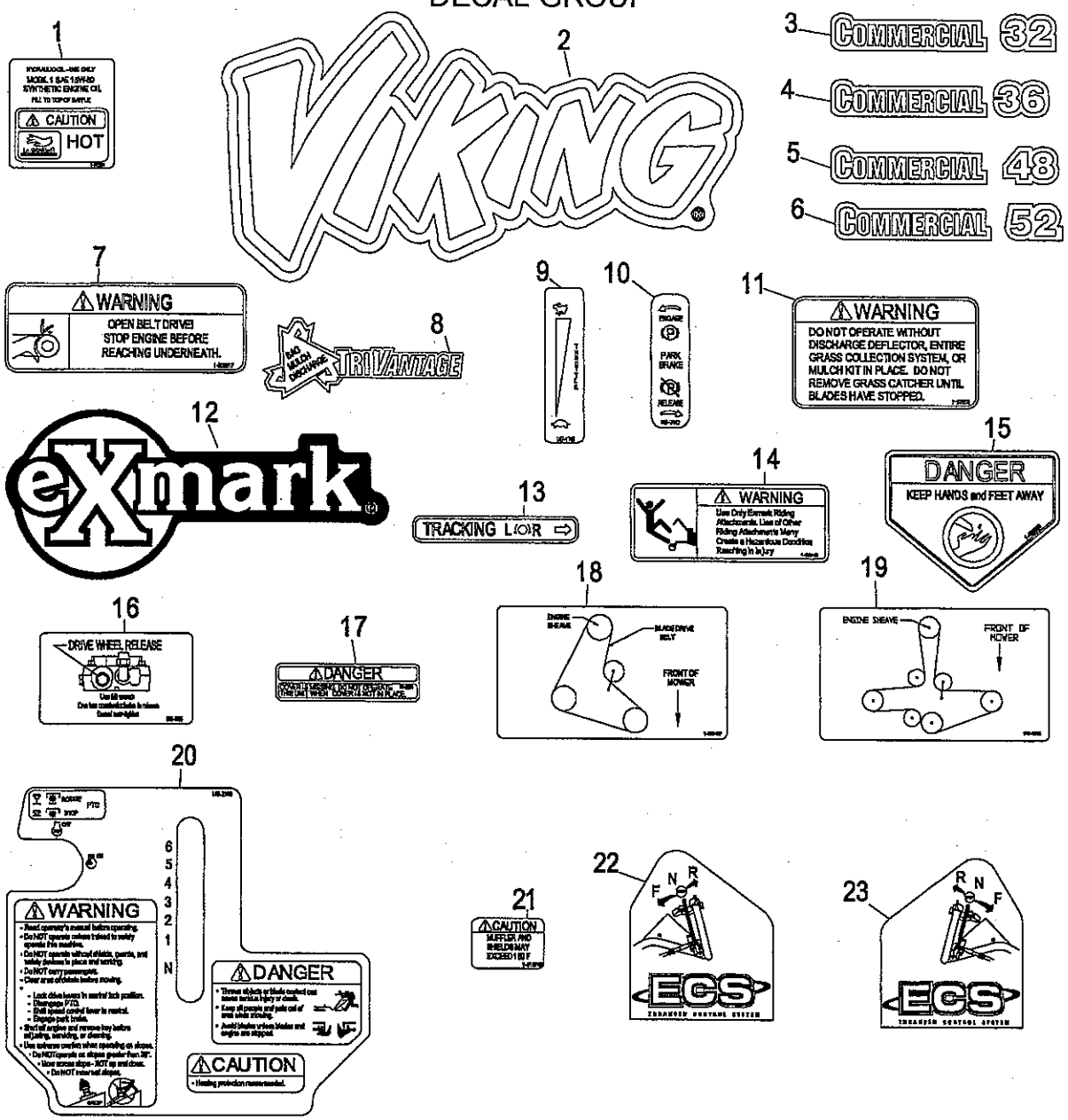
✚ Use Pro-Lock nut type, Part no. 1-840022 (.5cc tube) on setscrew threads, on thumb latch screws, and on fuel fittings.

▲ Use Pro-Lock retaining type, Part no. 1-840023 (.5cc tube) on inside of bore of OPC hub and on fuel tank studs going into tank.

ECS UPPER HANDLE and CONTROLS



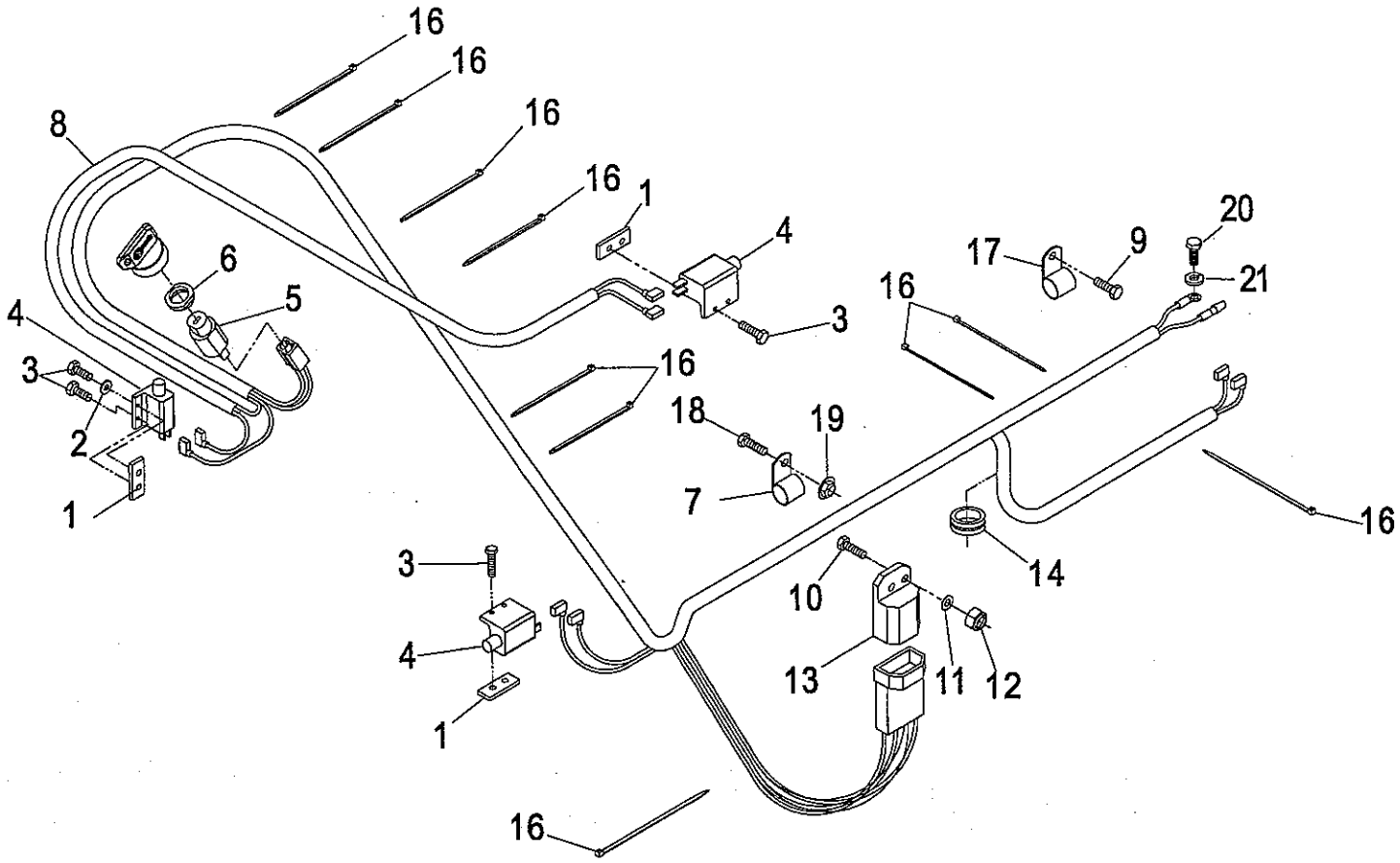
DECAL GROUP



Item	Part No.	Description	Qty.
1	1-523552	Decal, Hydraulic Tank	1
2	103-2943	Decal, VH Model	1
3	1-323410	Decal, Commercial 32"	1
4	1-323411	Decal, Commercial 36"	1
5	1-403131	Decal, Commercial 48"	1
6	1-403132	Decal, Commercial 52"	1
7	1-303517	Decal, Belt Drive	1
8	1-303520	Decal, TriVantage	1
9	103-1798	Decal, Throttle	1
10	103-2103	Decal, Park Brake	1
11	1-303508	Decal, Discharge Warning	1
12	103-2882	Decal, Exmark Logo	1
13	1-413214	Decal, Tracking	1

Item	Part No.	Description	Qty.
14	1-403143	Decal, Sulky Warning	1
15	1-403005	Decal, Danger (32"&36")	1
	1-403005	Decal, Danger (48")	2
16	103-4935	Decal, Drive Wheel Release	1
17	98-5954	Decal, Missing Cover	1
18	1-323427	Decal, Belt routing (32"&36")	1
19	103-5626	Decal, Belt routing (48" & 52")	1
20	103-2196	Decal, Console	1
21	1-513746	Decal, Muffler	1
22	103-2242	Decal, LH ECS Instruction	1
23	103-2243	Decal, RH ECS Instruction	1
	103-2588	Decal Kit, Viking Hydro	

ELECTRICAL GROUP

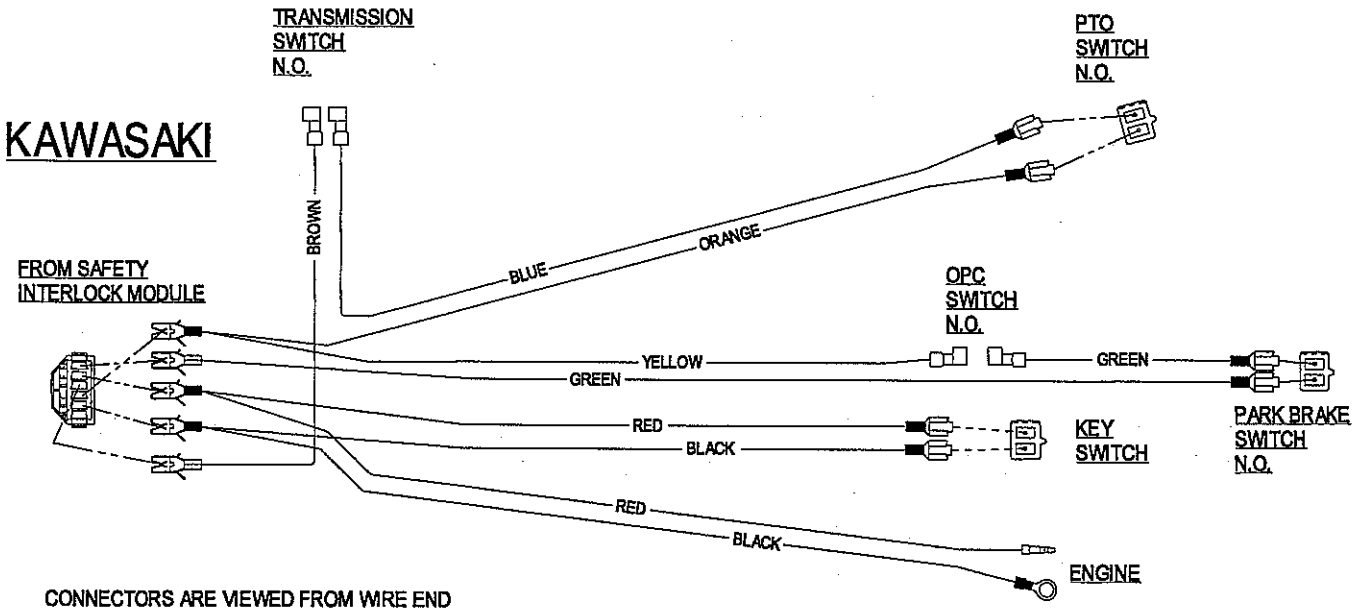


Item	Part No.	Description	Qty.
1	1-633181	Plate, Tapped	3
2	3256-14	Washer, #10 Std	1
3	3290-500	Screw, PPH #10-24 x 5/8	6
4	1-513051	Switch, N.O.	3
5	1-403121	Switch, On/Off W/ Keys	1
	1-603511	Key, On/Off	1
	103-2106	Key, Exmark Logo	1
6	103-0498	Nut, Ignition Switch	1
7	1-603727	Clip, Loom	1
8✚	103-2007	Harness, Wiring	1
9	33114-016	Screw, HH M8-1.25 x 16mm	1

Item	Part No.	Description	Qty.
10	321-4	Screw, HH 1/4-20 x 3/4	1
11	3256-22	Washer, 1/4 SAE	1
12	3296-42	Nut, Nyloc 1/4-20	1
13	1-323430	Module, Interlock	1
14	1-543296	Grommet	1
16	1-303287	Tie, Cable 5 1/2 (Small)	10
17	1-413510	Clip, Loom	1
18	321-3	Screw, HH 1/4-20 x 5/8	1
19	32128-33	Nut, Whizlock 1/4-20	1
20	33113-016	Screw, HH M6-1 x 16mm	1
21	1-805004	Washer, Lock 1/4 Heavy	1

✚ Use dielectric grease on all wiring harness connectors.

ELECTRICAL DIAGRAM



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

SERVICE RECORD

Date	Description of Work Done	Service Done By

SEE EXMARK'S COMPLETE LINE OF PRODUCTS FOR TURF CARE

LAZER Z®	LAZER Z® HP
LAZER Z® XP	LAZER Z® CT
TURF RANGER®	VIKING HYDRO
TURF TRACER®	TURF TRACER® HP
METRO®	METRO® HP
ULTRA VAC™	ULTRA VAC™ QDS
GRASS CATCHER	MICRO-MULCH ™ ACCESSORY

SELF STEERING SULKY

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BEATRICE, NE 68310

PART NO. 103-4872

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