



LAZER Z[®] HP 523

**For Serial Nos.
720,000 & Higher**
Part No. 4500-258 Rev. B

Parts Manual

EXMARK PARTS PLUS

PARTS
OVERNIGHT
OR *FREE**

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!! (Some restrictions apply. See your participating Exmark Dealer for details.)



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

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DECK GROUP

Item	Part No.	Description	Qty.
1	3296-29	Nut, Nyloc 5/16-18	10
2	3256-3	Washer, 5/16 Std Flat	6
3	103-2970-01	Shield, Belt	2
4	32128-20	Nut, Whizlock 5/16-18	7
5	1-800017	Bolt, 5/16 x 3 1/4 Tap	2
6	3290-357	Nut, Whizlock 3/8-16	3
7	3256-24	Washer, 3/8 SAE Flat	2
8	1-613098	Pulley, Idler	2
9	1-413113	Bushing, Idler	2
10	323-11	Screw, 3/8-19 x 2 1/4	1
11	323-6	Screw, 3/8-16 x 1	1
12	98-5975	Washer, Disc Spring 3/8	10
13	103-5668	Plate, Belt Guide	1
14	1-653190	Spacer	1
15	1-413099	Pulley, Idler	1
16	1-653368	Belt, Deck Drive	1
17	3296-39	Nut, Nyloc 3/8-16	19
18	103-3504	Bearing, Spherical	2
19	1-603401	Spacer	1
20	103-3330	Spring, Extension	1
21	321-1	Screw, 1/4-20 x 3/8	6
22■	103-5698	Kit, Idler Arm W/Bearings	1
23	106-7159	O-ring	2
24	103-1898	Screw, 7/16-14 x 1 5/8	8
25	32128-37	Nut, Whizlock 7/16-14	16
26	1-633447	Chain, Deck Lift	4
27	1-654478	Deck Wldmt (1-652418-01) W/Decals	1
28	323-39	Screw, 3/8-16 x 5	1
29	323-13	Screw, 3/8-16 x 2 3/4	2
30	32128-33	Nut, Whizlock 1/4-20	6
31	1-543963	Bumper, Rubber	2
32	322-2	Screw, 5/16-18 x 5/8	3
33	3211-46	Screw, HH 3/8-24 x 2 Gr8	5
34	103-5364	Axle, Anti-Scalp Roller	5
35+	1-603299	Roller, Anti-Scalp	5
36	109-6658	Nut, Nyloc 3/8-16 Flg	5

Item	Part No.	Description	Qty.
37	322-5	Screw, 5/16-18 x 1	2
38	1-652375-01	Chute Wldmt, Discharge	1
39	1-632199-01	Pin Wldmt, Deck Strut	2
40	103-1081	Strut Wldmt, Assembly	2
41	322-3	Screw, 5/16-18 x 3/4	2
42	3219-6	Nut, 5/8-18	2
43	1-633029	Spherical Rod End	2
44	3253-8	Washer, Lock 5/8	2
45	3217-11	Nut, 5/8-11	2
46	1-602913-01	Baffle, Discharge	1
47	1-800344	Screw, 5/8-11 x 6	2
48	302-19	Zerk, 1/4-18 Straight	5
49	109-1181	Strut Wldmt	2
50◆	1-654552	Deck Complete Service	1
51	3217-46	Nut, 3/4-16 Heavy	3
52	103-2802	Washer, Disc Spring 3/4	3
53★	1-653386	Sheave, Blade Drive	3
54	323-7	Screw, 3/8-16 x 1 1/4	18
55★	103-1330	Guard, Bearing Top	3
56	103-9077	Cutter Housing Complete	3
57	103-2535	Spacer, Guard Bottom	3
58★□	103-9071	Kit, Spindle	3
59	1-807268	Key, Machine	3
60	103-6402	Blade, Notched	3
	103-6387	Blade, Low Lift	3
◆	103-6392	Blade, Mulching	3
	103-6382	Blade, Solid	3
	103-6397	Blade, Extreme	3
61	103-3037	Bushing, Splined	3
62	109-5958	Screw, Hex Flange 1/2-20	3
63★	103-8280	Housing W/Bearings	3
64	103-3505	Seal, Double, Lip	1
65	103-2916	Guard, Top	1
66	103-3506	Seal, Single Lip	1
67	32120-10	Ring, Retaining	2

Exmark red touch up paint (spray paint - P/N 1-850337 - .6 oz liquid bottle - P/N 103-9140).

◆ Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK523Q(52").

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

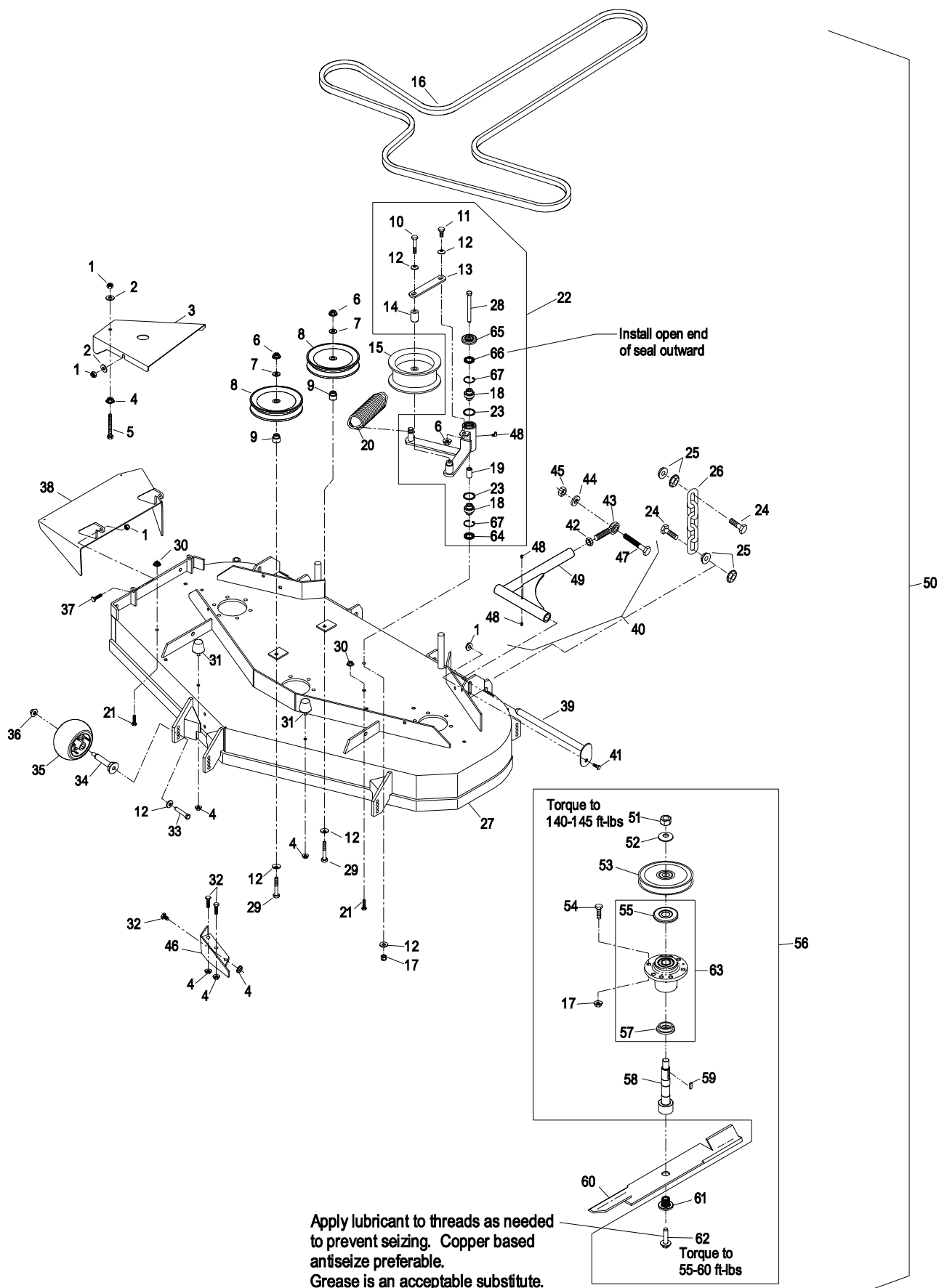
+ Kit 103-7263 includes antiscalp roller, axle, & mounting hardware.

■ Idler arm assembly also includes items #12 & #17.

◆ Includes all items shown plus decals.

□ Kit includes items #51, #52, #59, #61, & #62.

DECK GROUP



FRONT FRAME GROUP

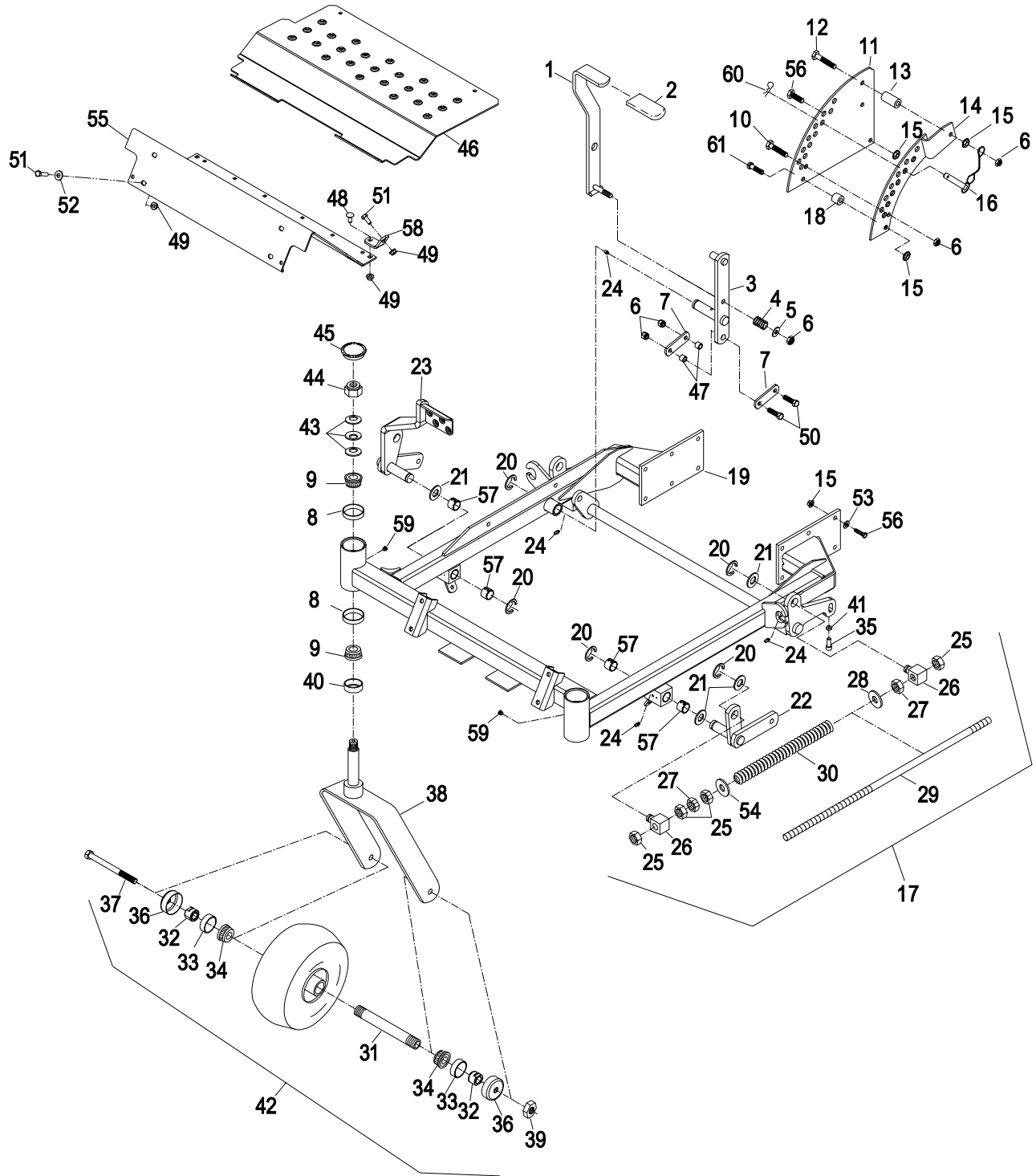
Item	Part No.	Description	Qty.
1	103-2081	Asm, Lever W/Grip (103-2078-03)	1
2	1-633295	Grip, Lift Lever	1
3	103-3718-03	Arm Wldmt, Deck Lift	1
4	1-633325	Spring, Compression	1
5	3256-24	Washer, 3/8 SAE	1
6	3296-39	Nut, Nyloc 3/8-16	5
7	1-633068	Arm, Deck Lift	2
8	1-543508	Bearing Cup, Tapered Roller	4
9	1-543509	Bearing Cone, Tapered Roller	4
10	323-9	Screw, 3/8-16 x 1 3/4	1
11	1-653230-01	Plate, Deck Lift	1
12	323-13	Screw, 3/8-16 x 2 3/4	1
13	1-633082	Bushing, Lift Lever	1
14	109-1901	Plate Wldmt, Deck Lift W/Decal	1
15	3290-357	Nut, Whizlock 3/8-16	15
16◆	1-633097	Hitch Pin W/Lanyard	1
17	103-1987	Asm, Deck Lift Spring	2
18	1-413088	Bushing, Lift Lever	1
19*	103-3833	Asm, Front Frame	1
20	32151-103	E-Ring	7
21	3256-29	Washer, 7/8 SAE Flat	7
22	1-652013-01	Shaft Wld, Deck Lift LH	1
23●	109-7615-01	Shaft Wld, Deck Lift RH	1
24	302-19	Zerk, 1/4-28 Straight	5
25	3217-11	Nut, 5/8-11 Regular	8
26	1-633441	Swivel, Deck Mount	4
27	3218-6	Jam Nut, 5/8-11	4
28	1-805517	Washer, 5/8 Std Flat	2
29	1-653011	Rod, Deck Lift	2
30	1-653009	Spring, Deck Support	2
31	103-3155	Axle, Caster	2
32★	103-3051	Spacer, Nut	4

Item	Part No.	Description	Qty.
33	103-0063	Seal, Bearing	4
34	1-633585	Bearing Cone	4
35	3274-18	Screw, Socket Head 5/16-18 x 1 1/4	2
36	103-2768	Guard, Seal	4
37	325-36	Screw, 1/2-13 x 7 1/2	2
38	1-632511-01	Caster Wldmt	2
39	3296-45	Nut, Nyloc 1/2-13 (Light Thin)	2
40	1-543511	Seal, Grease	2
41	3218-2	Nut, Jam 5/16	2
42	103-5189	Asm, Caster Wheel (Pneumatic)	2
	1-633002	Tire, 13 x 5.0-6 4 Ply (Pneumatic)	2
	103-3785	Asm, Caster Wheel (Semi-Pneumatic) ..	2
43	1-633508	Washer, Spring Disk	6
44	3296-51	Nut, Nyloc 3/4-10	2
45	103-4882	Cap, Grease	2
46	109-8861-01	Floorpan Liftout	1
47	103-1918	Bushing	2
48	3230-1	Bolt, Carriage 5/16-18 x 3/4	2
49	32128-20	Nut, Whizlock 5/16-18	8
50	323-29	Screw, Cap 3/8-16 x 1.38	2
51	322-3	Screw, 5/16-18 x 3/4	6
52	3256-3	Washer, 5/16 SAE Flat	4
53	98-5975	Washer, 3/8 Disc Spring	12
54	3256-27	Washer, 5/8 SAE Flat	2
55	109-8862-01	Floorpan Front	1
56	323-6	Screw, 3/8-16 x 1	13
57	103-1982	Bushing, Spring	4
58	99-3870-01	Bracket, Floorpan	2
59	1-811010	Plug	2
60	1-806005	Hairpin, Cotter	1
61	323-8	Screw, 3/8-16 x 1 1/2	1

Exmark red touch up paint (spray paint - P/N 1-850337 - .6 oz liquid bottle - P/N 103-9140).

- ★ Use Pro-Lock, Nut Type (P/N 1-840022, .5 ml tube) on spacer nut.
- * Includes frame weldment plus items #9, #22, #23, #40, #45, and #59.
- ◆ Includes hitch pin plus hairpin, item #60.
- Deck lift assist kit P/N 109-5201 (includes items #20, #21, and #23).

FRONT FRAME GROUP



MAINFRAME GROUP

Item	Part No.	Description	Qty.
1●	103-3524	Seat, Complete W/Armrests	1
2	1-643255	Track, Seat (4" Adjust.)	1
	103-8386	Spring, Seat Rail	1
3	1-543401	Spacer, Seat Track	2
4	103-0292	Cushion, Armrest (RH)	1
◆	103-0291	Cushion, Armrest (LH)	1
5	103-3520	Cushion, Backrest	1
6	1-653159	Wheel/Tire Assy	2
	1-653161	Wheel	2
	1-653160	Tire, 23 x 9.5-12-4 Ply	2
7	103-5961	Catch, Seat Latch	1
8	323-39	Screw, 3/8-16 x 5	2
9	32128-20	Nut, Whizlock 5/16-18	16
10	3296-29	Nut, Nyloc 5/16-18	3
11	103-1731	Rod, Seat Hold Up	1
12	322-5	Screw, 5/16-18 x 1	3
13	112-9007	Asm, Mainframe(112-9009-03) W/Decals	1
14	32128-33	Nut, Nyloc 1/4-20	2
15	242-50	Nut, Wheel 1/2-20	8
16	3296-39	Nut, Nyloc 3/8-16	3
17	109-2164	Asm, Console(103-9843-03) W/Decals	1
18	109-2165	Panel, Instrument (103-7939-03) W/Decals	1
19☆	FRPSL	Kit, Rops LHP	1
20	322-3	Screw, 5/16 -18 x 3/4	3
21	103-3521	Cushion, Seat	1
22	3256-23	Washer, Flat 5/16 SAE	2

Item	Part No.	Description	Qty.
23◆	103-4553	Asm, Rops Fold Pin	2
24	110-5850	Asm, Seat Frame	1
25	3296-73	Nut, Nyloc 1/4-20 (black)	2
26	103-7935-03	Bracket, Instrument Panel	1
27	322-4	Screw, HH 5/16-18 x 7/8	2
28	1-513658	Bumper	2
29	109-2365	Bumper, Rubber	4
30	1-633859	Seat Frame	1
31	322-2	Screw, 5/16-18 x 5/8	6
32	1-633396	Clip, Loom	1
33	3256-3	Washer, Flat Std 5/16	4
34	103-8383	Bolt, Seat Cushion	11
35	110-0883	Asm, Seat Belt	1
36	3296-7	Nut, Nyloc 7/16-20	2
37	3231-22	Bolt, Carriage 3/8-16x1	2
38	325-13	Screw, HH 1/2-13 x 3 1/4	2
39	32128-23	Nut, Hex Flange Side Lock 1/2-13	2
40	107-3155	Cotter, Hair Pin Double Loop	2
41	3212-4	Screw, HH 7/16-10 x 1	2
42	323-6	Screw, HH 3/8-16 x 1	8
43	3290-357	Nut, Whizlock 3/8-16	8
44	98-5975	Washer, Spring Disk 3/8	8
45	103-4434	Grip	1
46	110-5808	Latch, Seat	1
47	107-0075	Bushing	1
48	110-5831	Spring	1
49	323-20	Screw, 3/8-16 x 3 1/4	1
50	3256-24	Washer, 3/8 SAE Flat	1

Exmark black touch up spray paint – gloss black.

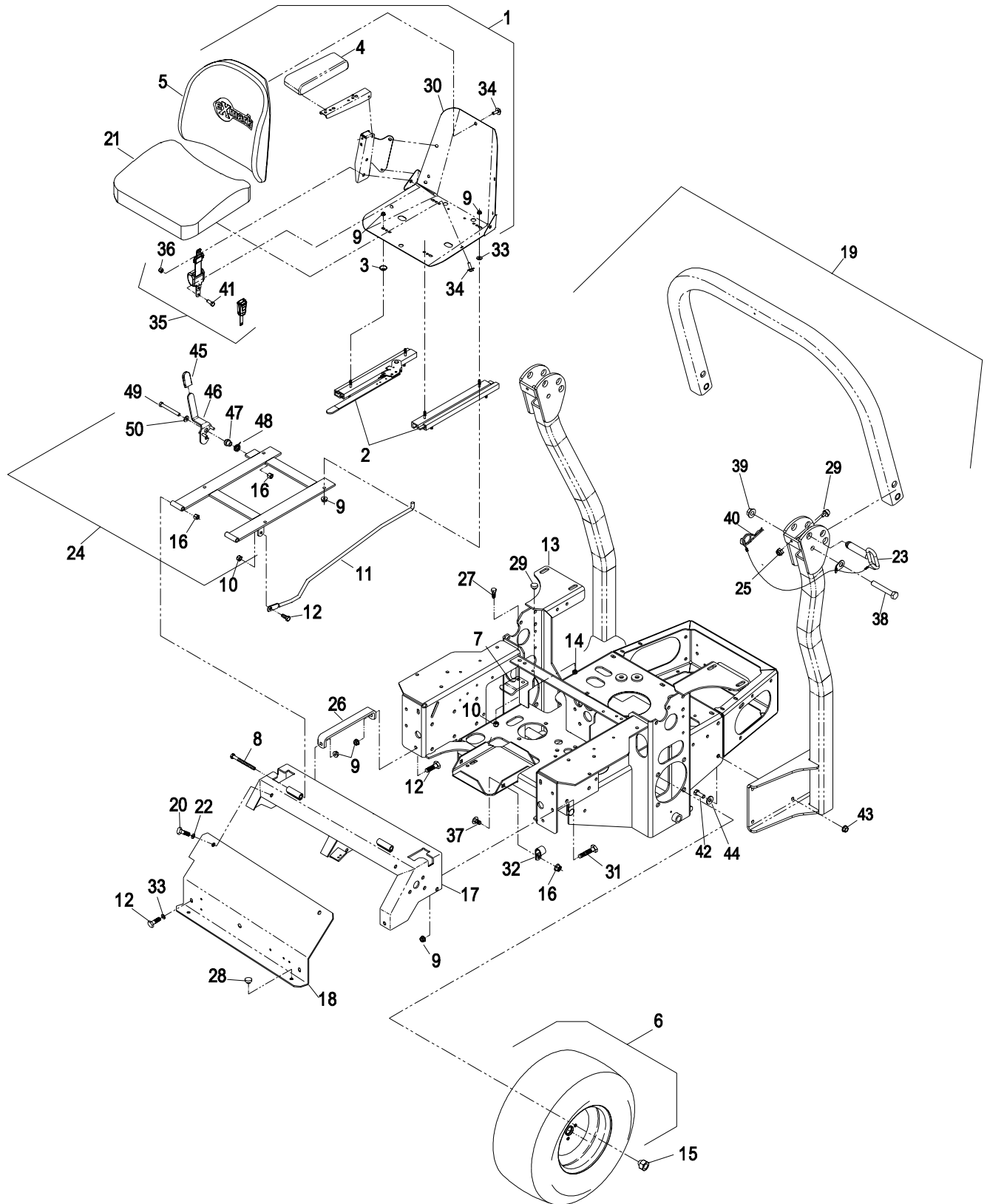
◆ Not Illustrated.

◆ Includes ROPS fold pin plus hairpin item #40.

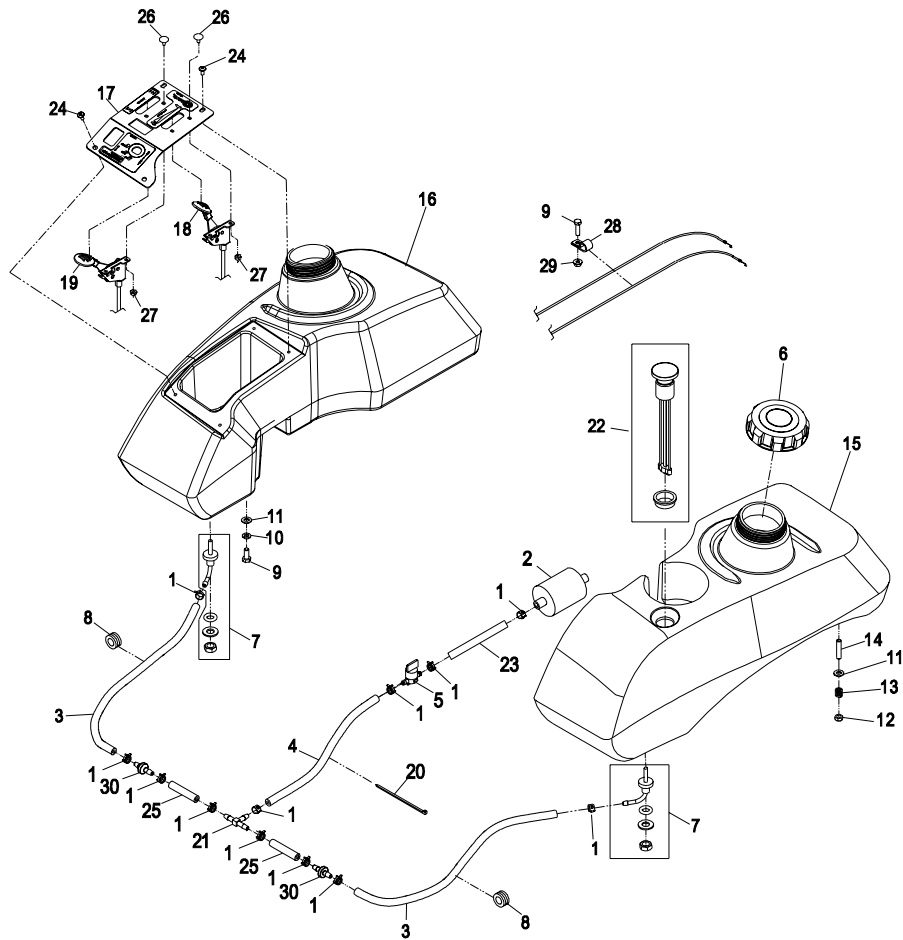
☆ Rollover protection frame is serviced as a complete assembly only. Includes complete ROPS frame, mounting hardware, fold pivot and locking hardware, seat frame assembly item #24, catch item #7, and seat belt assembly item #35.

● Includes armrests and seat back decal. Does not include seat belt or tracks.

MAINFRAME GROUP



FUEL GROUP

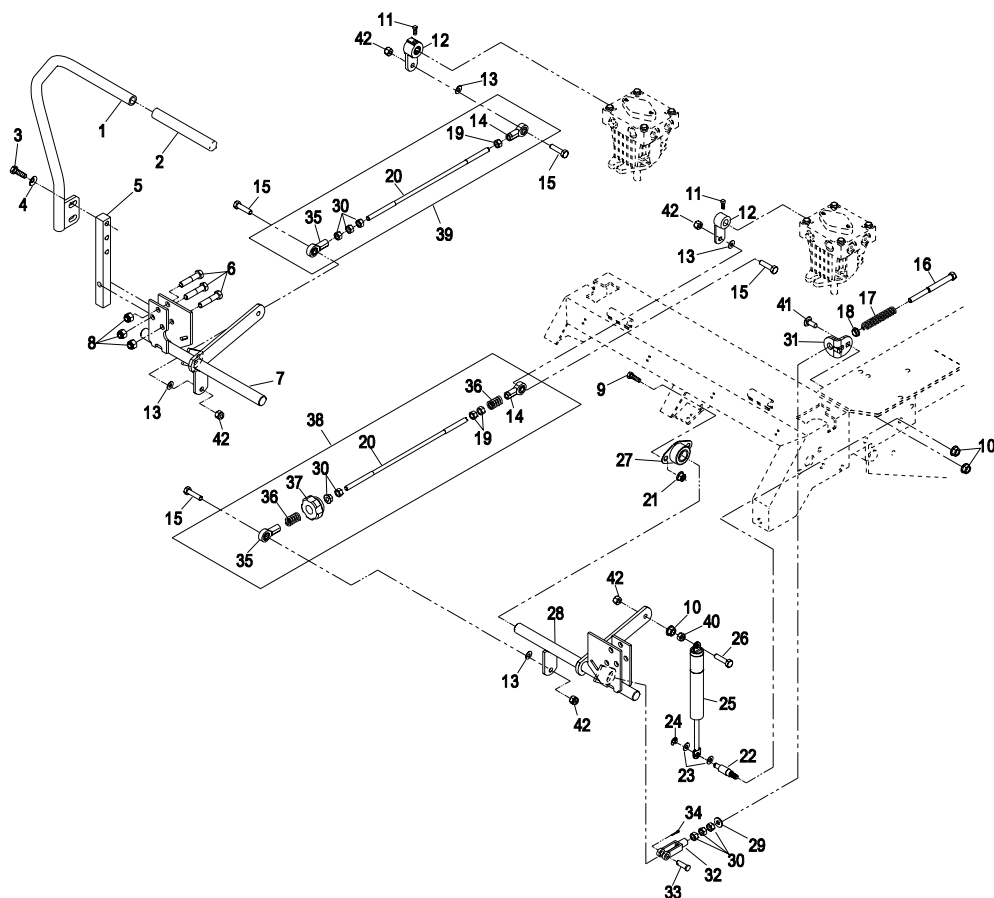


Item	Part No.	Description	Qty.
1	1-303077	Clamp, Fuel Line.....	12
2◆	Kohler	Part No. 2405010 Fuel Filter	1
3	109-2225	Hose, Fuel Line 20 1/2"	2
4	109-0275	Hose, Fuel Line 32"	1
5	1-603770	Valve, Fuel	1
6	109-0346	Cap, Fuel Tank	2
7▼	103-2605	Fitting, Fuel Bulkhead W/Strainer	2
	103-2784	O-Ring	2
8	1-543296	Grommet, Fuel Line	2
9	322-3	Screw, 5/16-18 x 3/4	5
10	1-805005	Washer, Lock 5/16	4
11	3256-23	Washer, 5/16 SAE	8
12	3296-47	Nut, Nyloc 5/16-18	4
13	1-633349	Spring, Fuel Tank.....	4
14◇	1-633023	Stud, Fuel Tank	4
15★	103-4898	Asm, Tank Fuel (LH).....	1

Item	Part No.	Description	Qty.
16★	109-0686	Asm, Tank Fuel (RH).....	1
17	109-4509	Asm, Control Panel W/Decals	1
18	109-3987	Control, Throttle (Red).....	1
19	109-4211	Control, Choke (Black) (Kohler)	1
	109-4210	Control, Choke (Black) (Kawasaki)	1
20	1-303335	Plastic Tie (Large)	1
21	99-5005	Fitting, Barbed Tee.....	1
22	103-6563	Kit, Fuel Gage	1
23	109-0660	Hose, Fuel Line 3 1/2"	1
24■	109-2661	Screw, PPH #10-24 x 1/2	4
25	109-0304	Hose, Fuel Line 2 1/2"	2
26	1-807513	Bolt, Carriage #10-24 x 1/2	4
27	3296-2	Nut, Nyloc #10-24	4
28	1-633396	Clip, Loom 5/8	1
29	32128-20	Nut, Whizlock 5/16-18	1
30	99-5000	Valve, Fuel Check	2

- ◇ Use Pro-Lock, Retaining Type (P/N 1-840023, .5ml tube) on stud threads going into tank.
- ◆ Refer to Engine Owner's manual. (Fuel filter **Must** be 15 Micron or smaller).
- ★ Includes tank, cap, fitting, and studs. LH tank also includes fuel gauge.
- ▼ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on fuel fitting.
- Snug fit only on slotted holes, **Do Not Overtighten**, tank must be able to expand.

MOTION CONTROL GROUP



Item	Part No.	Description	Qty.
1	103-3458	Handle 103-3327-03 W/Grip (RH)	1
*	103-3457	Handle 103-3326-03 W/Grip (LH)	1
2	103-3456	Grip, Motion Cntrl Handle	2
3	323-6	Screw, 3/8-16 x 1	4
4	98-5975	Washer, Disc Spring 3/8	4
5	103-0407	Arm, Control Shaft	2
6	323-9	Screw, 3/8-16 x 1 3/4	6
7	103-4773	Bracket, Motion Cntrl (RH)	1
8	3296-39	Nut, Nyloc 3/8-16	6
9	323-4	Screw, 3/8-16 x 3/4	8
10	32128-20	Nut, Whizlock 5/16-18	6
11◆	1-803022	Setscrew, 5/16 x 5/8	2
12	103-3717	Arm, Pump Control	2
13	3256-3	Washer, 5/16 Std	4
14	1-633152	Ball Joint (LH)	2
15	322-6	Screw, 5/16-18 x 1 1/4	4
16	1-603737	Bolt, (Neutral Return)	2
17	1-603807	Spring, (Neutral Return)	2
18	109-3769	Bushing, Nylon (Reverse Ind.)	2
19	1-804524	Nut, 5/16-24 (LH)	3
20	103-3066	Link, Pump Control	2
21	3290-357	Nut, Whizlock 3/8-16	8

Item	Part No.	Description	Qty.
22	103-4101	Pin, Damper Anchor	2
23	3256-23	Washer, 5/16 SAE	4
24	32120-35	E-Ring	2
25	109-2339	Damper	2
26	1-403180	Screw, 5/16-18x1 1/4 Special	2
27	1-633102	Bearing, Flanged	4
28	103-4774	Bracket, Motion Control(LH)	1
29	3256-2	Washer, 1/4	2
30	3219-2	Nut, 5/16-24	10
31	109-3908	Tab, Adjustment	2
32	1-303105	Yoke	2
33	1-808280	Pin, Clevis 5/16 x 1	2
34	3272-5	Pin, Cotter 3/32 x 1/2	2
35	1-543017	Ball Joint (RH)	2
36	1-323245	Spring, Compression	2
37	103-3060	Knob, Tracking	1
38	103-4326	Asm, Tracking	1
39	103-4327	Asm, Tracking	1
40	3217-6	Nut, Hex 5/16-18	2
41	3230-23	Bolt, Carriage 5/16-18 x 3/4, short neck ..	2
42	3296-29	Nut, Nyloc 5/16-18	6

Exmark black touch up spray paint – gloss black.

* Not Illustrated.

◆ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on setscrews.

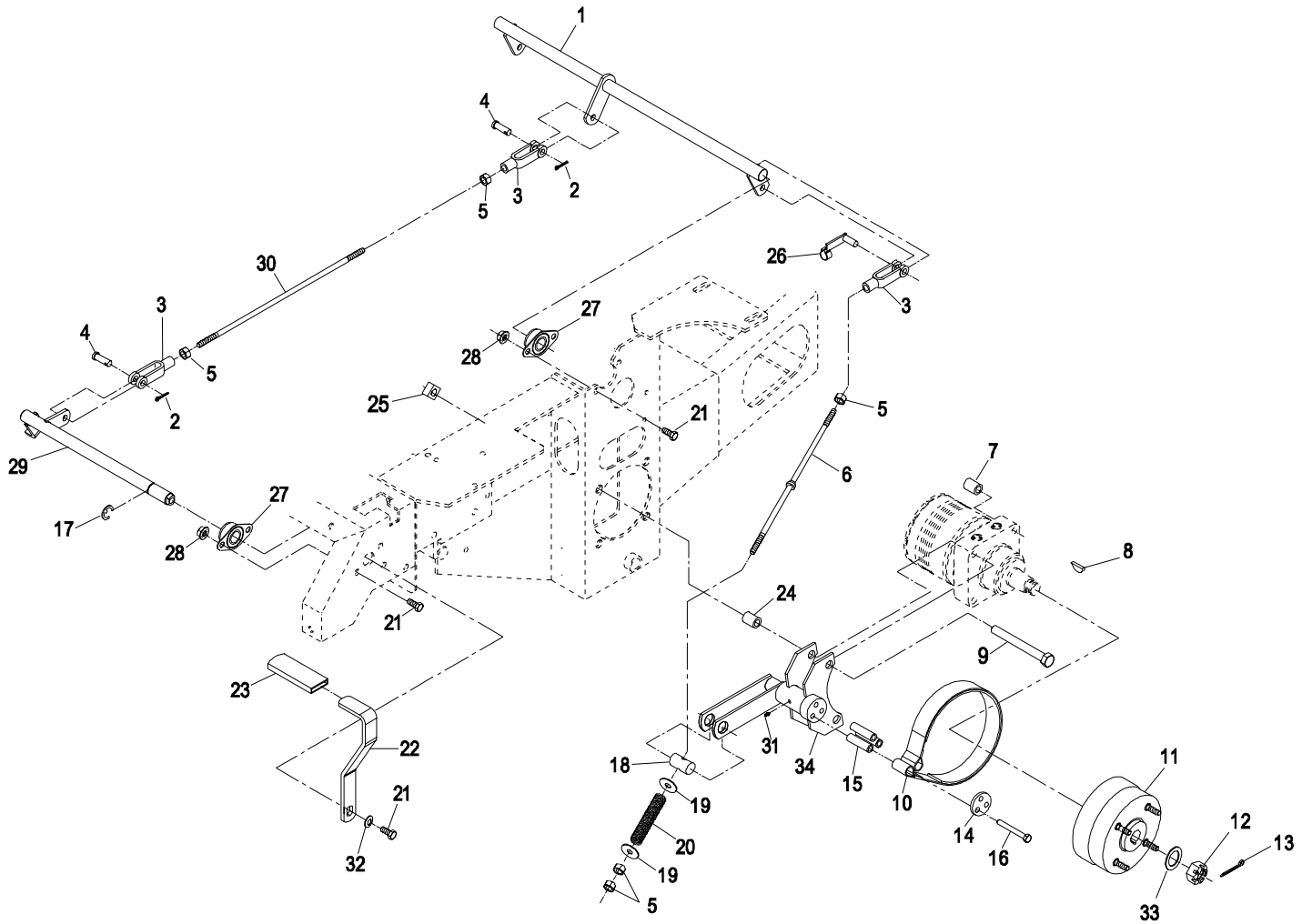
PARK BRAKE GROUP

Item	Part No.	Description	Qty.
1	1-652073-03	Crank Wldmt, Brake.....	1
2	3272-10	Pin, Cotter 1/8 x 3/4	2
3	1-633131	Yoke	4
4	1-808285	Pin, Clevis 3/8 x 1 1/8	2
5	3219-3	Nut, 3/8-24	8
6	103-0356	Rod, Brake.....	2
7	1-653380	Spacer (Long)	4
8	3257-42	Woodruff Key, 5/16 x 1	2
9	325-17	Screw, HH 1/2-13 x 4	8
10	103-9761	Band, Brake.....	2
11	103-0590	Hub & Drum W/Studs, Plated	2
	1-633926	Stud, Wheel.....	8
12	1-809036	Nut, Slotted 1.00-20	2
13	1-806800	Pin, Cotter 9/64 x 1 1/2	2
14	103-0374	Retainer, Brake Band.....	2
15	103-0384	Spacer	6
16	322-9	Screw, 5/16-18 x 1 3/4	6
17	32151-48	Ring, Retaining	1

Item	Part No.	Description	Qty.
18	1-633144	Pin, Trunion	2
19	3256-4	Washer, 3/8 Std.....	4
20	1-633454	Spring, Brake Rod	2
21	323-4	Screw, 3/8-16 x 3/4.....	9
22	103-4630	Asm, Lever (1-653074-03) W/Grip	1
23	1-633268	Grip, Brake Lever.....	1
24	1-653381	Spacer(Short)	4
25	109-5618	Nut, Square Special 1/2-13.....	8
26	103-2399	Pin, Spring Clevis	2
27	1-633102	Bearing, Flange	4
28	3290-357	Nut, Whizlock 3/8-16	8
29	103-3116	Shaft Wldmt, Brake	1
30	1-653061	Linkage, Brake Handle	1
31	1481	Zerk, Grease.....	2
32	98-5975	Washer, Disc Spring 3/8.....	1
33	1-523157	Washer, Spacer.....	2
34	103-0353-03	Bracket, Brake.....	2

Exmark black touch up spray paint – gloss black.

PARK BRAKE GROUP



HYDRAULIC GROUP

Item	Part No.	Description	Qty.
1	103-1947	Asm, Reservoir W/ Decal.....	1
2	103-7615	Asm, Cap W/Gasket.....	1
3	103-1949	Gasket, Reservoir Cap.....	1
4	321-6	Screw, 1/4-20 x 1.0.....	2
5	3256-22	Washer, Flat SAE 1/4.....	2
6	103-3071-03	Wld, Reservoir Stand.....	1
7	103-1801	Adapter, Straight.....	1
	1-603921	Boss O-Ring.....	1
8	103-1912	Adapter, Straight.....	1
	1-603921	Boss O-Ring.....	1
9	103-1716	Clamp, Hose (17/32).....	3
10	103-1988	Clamp, Hose (11/16).....	3
11	103-3077	Asm, Supply Hose.....	1
12	103-2889	Asm, Filter Head.....	1
	103-1912	Adapter, Straight.....	2
	1-603921	O-Ring.....	1
13	321-3	Screw, 1/4-20 x 5/8.....	2
14	322-5	Screw, 5/16-18 x 1.....	2
15	1-805004	Lockwasher.....	2
16	109-4180	Element, Oil Filter.....	1
▼	1-523541	Element, Oil Filter (Winter).....	1
17	103-2930	Asm, Charge Hose.....	1
18	103-2357	Asm, Case Drain Hose.....	1
19	1-653437	Hose, RH Rear.....	1
20	1-653436	Hose, RH Front.....	1
21	1-633605	Elbow, 90° (RH Wheel Motor).....	2
	1-603919	Boss O-Ring.....	1
	1-603992	Flare O-Ring.....	1
22	1-523328	Motor, Wheel.....	2
	103-6995	Kit, Output Shaft & Seals.....	1
	103-6994	Kit, Seal.....	1
23	103-1799	Elbow, 90°.....	2
	1-603921	Boss O-Ring.....	1
24	1-807272	Key 5 x 5 x 25mm.....	2
25	103-1802	Elbow, 90°.....	2
	1-603921	Boss O-Ring.....	1

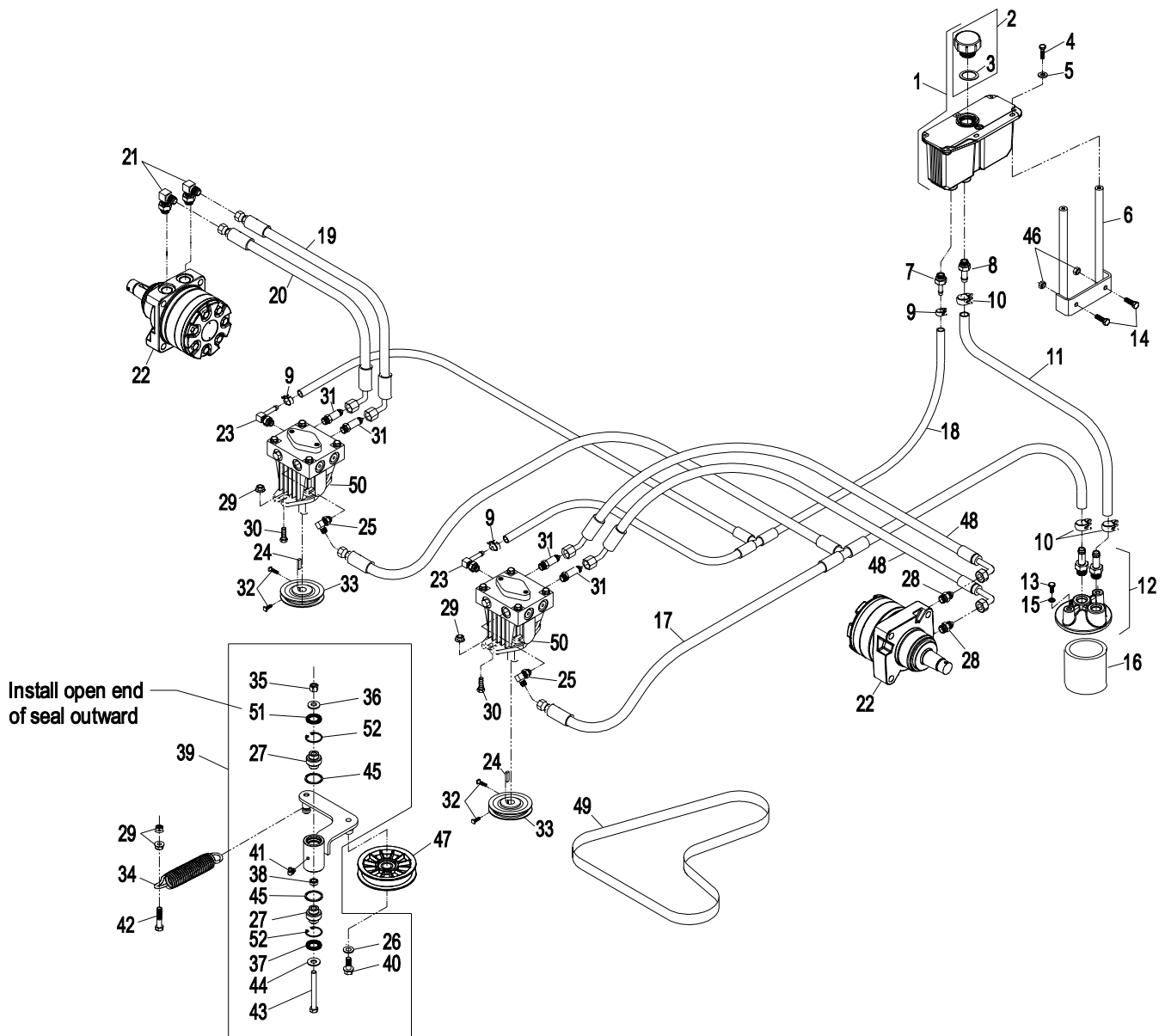
Item	Part No.	Description	Qty.
26	3256-24	Washer, 3/8 SAE Flat.....	1
27	103-3504	Bearing, Spherical.....	2
28	1-603991	Adapter, Straight (LH Wheel Motor).....	2
	1-603919	Boss O-Ring.....	1
	1-603992	Flare O-Ring.....	1
29	3290-357	Nut, Whizlock 3/8-16.....	6
30	323-7	Screw, 3/8-16 x 1 1/4.....	4
31	103-1940	Adapter, Straight Long.....	4
	1-603920	Boss O-Ring.....	1
	1-603992	Flare O-Ring.....	1
32◇	1-803050	Setscrew, .312-18 x .75.....	4
33	1-653156	Sheave, Pump Drive.....	2
34	103-4480	Spring, Extension.....	1
35	3296-39	Nut, Nyloc 3/8-16.....	1
36	98-5975	Washer, Disc Spring.....	1
37	103-3505	Seal, Double, Lip.....	1
38	103-5677	Spacer.....	1
39	109-4311	Arm, Idler W/ Bearings.....	1
40	3234-11	Screw, 3/8-16 x 1 Whizlock.....	1
41	302-40	Zerk, 90° 1/4-28.....	1
42	323-9	Screw, 3/8-16 x 1 3/4.....	1
43	98-5961	Screw, 3/8-16 x 4 Gr 8.....	1
44	3256-4	Washer, 3/8 Std Flat.....	1
45	106-7159	O-ring.....	2
46	32128-20	Nut, 5/16-18 Whizlock.....	2
47	109-4077	Pulley, Idler.....	1
48	103-3810	Hose, LH.....	2
49	103-4761	Belt, Pump Drive.....	1
50	103-1942	Pump, Hydro.....	2
	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
	103-2741	Kit, Shock Valve 10a/10l.....	1
51	103-3506	Seal, Single Lip.....	1
52	32120-10	Ring, Retaining.....	2

Exmark black touch up spray paint – gloss black.

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

◇ Use Pro-Lock, Nut Type (P/N 1-840022).

HYDRAULIC GROUP



ENGINE GROUP

Item	Part No.	Description	Qty.
1	103-3078-03	Strap, Engine Guard	2
2	32128-20	Nut, Whizlock 5/16-18.....	20
3	322-3	Screw, 5/16-18x3/4	2
4	3212-10	Screw, HH 7/16-20 x 2 1/2	1
5	103-3913	Sheave, Pump Drive (23HP)	1
	103-9772	Sheave, Pump Drive (27HP)	1
6	103-3426	Muffler, Kit	1
7	1-805005	Washer, Lock 5/16 Heavy	1
8	3256-3	Washer, 5/16 Std Flat	2
9	32128-20	Nut, Whizlock 5/16-18.....	4
10	322-10	Screw, HH 5/16-18 x 2	4
11	103-3218-03	Wld, Tailpipe Guard	1
12-◇	109-0876	Asm, Oil Drain W/Plug	1
13	109-8385-03	Anchor, Clutch (27HP)	1
	109-7070-03	Anchor, Clutch (23HP)	1
14	103-3094-03	Deflector, Air LH	1
15	1-805004	Washer, Lock 1/4 Hvy	4
16	32128-33	Nut, Flange 1/4-20	6
17	3229-10	Screw, Carr 1/4-20 x 1/2	6
18	103-3288-03	Guard, Muffler RH	1
19	103-3287-03	Guard, Muffler LH	1
20	1-807259	Key	1

Item	Part No.	Description	Qty.
21	103-2308	Spacer, Crankshaft (23HP).....	1
	103-9891	Spacer, Crankshaft (27HP).....	1
22	33113-020	Screw, HH M6-1 x 20mm.....	2
23	33013-00	Nut, Hex M6-1	2
24	1-603610	Washer, Disc Spring 7/16.....	2
25◆	3212-10	Screw, 7/16-20 x 2 1/2.....	1
26	1-303335	Plastic Tie (Large)	1
27	1-303334	Washer, Spring Disc.....	4
28	3256-23	Washer, 5/16 SAE Flat.....	6
29	103-2740-03	Shield, Heat.....	1
30	109-9276	Clutch, W/Pigtail (23HP).....	1
	109-9275	Clutch, W/Pigtail (27HP).....	1
	103-3012	Kit, Brake Pole Module	1
31	103-2988-03	Bracket, Muffler RH	1
32	107-8421-03	Counterweight, 60#	1
33	322-7	Screw, Cap HH 5/16-18x1 1/2	8
34	1-653291	Gasket.....	2
35	109-1012	Plug.....	1
36	103-2987-03	Bracket, Muffler LH.....	1
37	103-3095-03	Deflector, Air RH	1
38	322-5	Screw, HH 5/16-18 x 1.....	9

Exmark black touch up spray paint – gloss black.

◇ Use a Teflon Pipe Sealant or equivalent on threads.

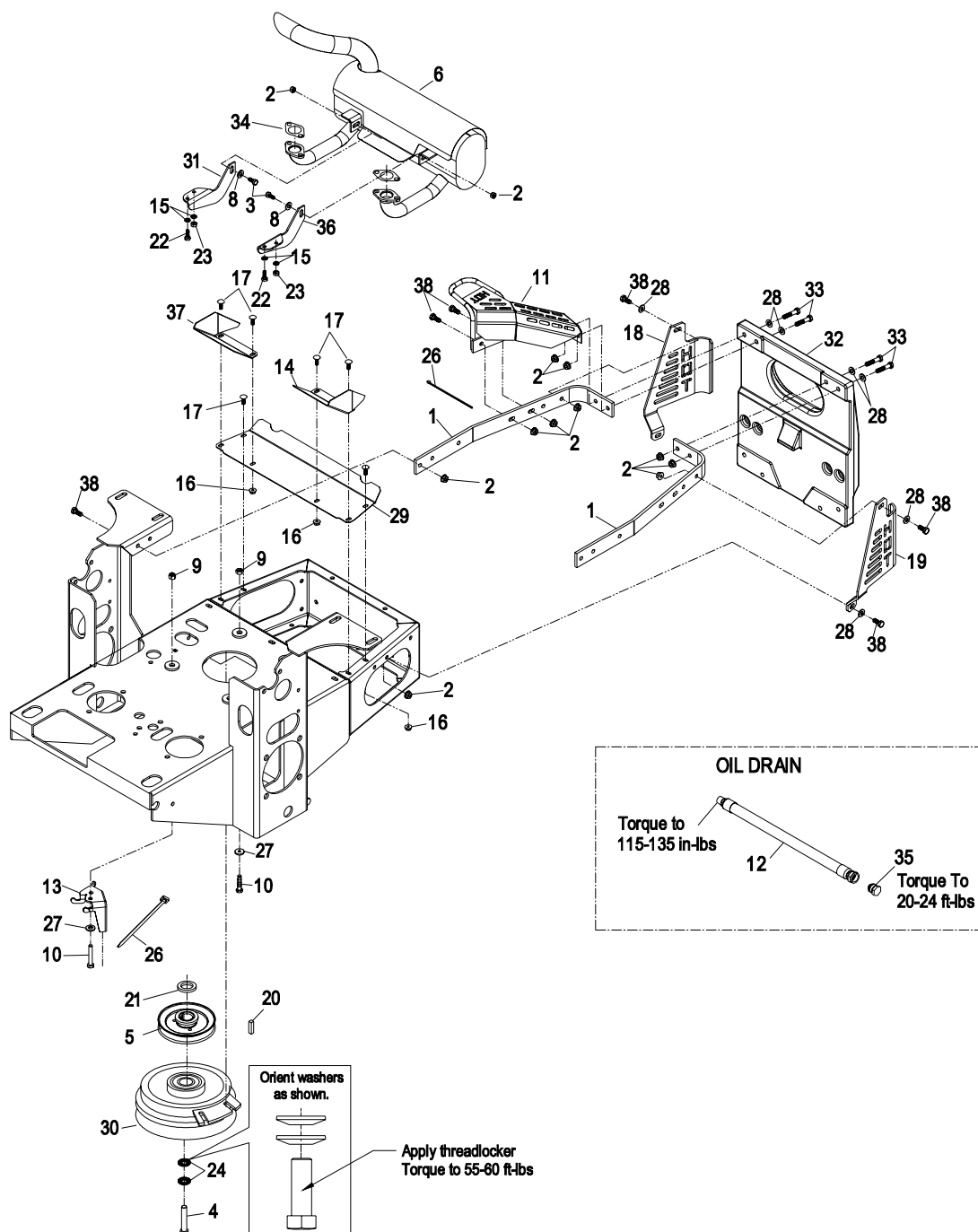
◆ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on clutch bolt.

Kohler Replacement Parts List

(Refer to Engine Owner's Manual)

Description	Kohler P/N
Air Filter Element – Outer	2508301-S
Air Filter Element – Inner.....	2508304-S
Oil Filter.....	12 050 01

ENGINE GROUP



DECAL GROUP

Item	Part No.	Description	Qty.
1	103-4891	Decal, Console LHP	1
2	1-513748	Decal, Guard.....	1
3	1-633922	Decal, Anti-Scalp	1
4	1-403132	Decal, Commercial 52"	1
5	1-513742	Decal, No Step.....	2
6	107-2112	Decal, Danger Slope.....	1
7	107-2102	Decal, ROPS Folding.....	1
8	98-5954	Decal, Missing Cover	2
9	103-4892	Decal, Throttle	1
10	1-303508	Decal, Discharge Warning	1
11	1-513746	Decal, Muffler.....	2
12	103-9287	Decal, Belt Routing	1
13	1-403005	Decal, Danger.....	2

Item	Part No.	Description	Qty.
14	1-523552	Decal, Hyd Tank/Hot Surface	1
15	1-653147	Decal, Deck Height.....	1
16	109-3148	Decal, Bolt Torque.....	2
17	103-2644	Decal, Exhaust System.....	1
18	103-3142	Decal, LHP Model.....	1
19	103-6340	Decal, Check Service	1
20	103-2882	Decal, Exmark Logo	1
21	1-303520	Decal, Tri-Vantage.....	1
22	109-7949	Decal, Wheel Hub Slotted.....	2
23	109-1196	Decal, Ignition/PTO	1
24	103-4930	Decal, Choke	1
25	108-5995	Decal, Top Console	1
	103-4581	Decal Kit	

DECAL GROUP

1

RELEASE

PARK BRAKE

ENGAGE

⚠ DANGER

To avoid serious injury or death:

- Avoid blades unless engine and blades are stopped.

⚠ WARNING

To avoid serious injury or death:

- Pick up objects that could be thrown by the blades.
- Do NOT mow when people and pets are in the area.
- Do NOT carry passengers.
- Look behind and to the side before changing directions.
- Before leaving operator's position:
 - Disengage PTO.
 - Move drive levers out to neutral lock position.
 - Engage park brake.
 - Stop engine.

CUTTING HEIGHT

103-4891

2

⚠ CAUTION

DO NOT OPERATE WITHOUT GUARD IN PLACE.

3

ANTI-SCALP ROLLER ADJUSTMENT

FOR NORMAL OPERATING CONDITIONS, PLACE ROLLERS IN POSITIONS SHOWN FOR 3/4" (19 mm) GROUND CLEARANCE.

CUTTING HEIGHT (INCHES/CM)

FOR MAXIMUM FLOTATION ROLLERS MAY BE POSITIONED LOWER, BUT MUST MAINTAIN A MINIMUM OF 1/4" (6.4 mm) GROUND CLEARANCE. NEVER POSITION THE ROLLERS TO SUPPORT THE MOWER DECK.

4

COMMERCIAL 52

5

NO STEP

6

⚠ WARNING

- Operating on wet grass or steep slopes can cause sliding and loss of control.
- Wheels dropping over edges can cause rollovers, which may result in serious injury, death or drowning.
- To avoid loss of control and possibility of rollover:
 - Do NOT operate near drop-offs or near water.
 - Do NOT operate on slopes greater than 15°.
 - Reduce speed and use extreme caution on slopes.
 - Avoid sudden turns or rapid speed changes.
- There is no roll over protection when the roll bar is down.
- Always keep roll bar in the raised and locked position and use seat belt.
- Read and follow rollover protection instructions and warnings.

9

10

⚠ WARNING

DO NOT OPERATE WITHOUT DISCHARGE DEFLECTOR, ENTIRE GRASS COLLECTION SYSTEM, OR MULCH KIT IN PLACE. DO NOT REMOVE GRASS CATCHER UNTIL BLADES HAVE STOPPED.

11

⚠ CAUTION

MUFFLER AND SHIELDS MAY EXCEED 160 °F.

12

13

DANGER

KEEP HANDS AND FEET AWAY

7

⚠ WARNING

TO AVOID INJURY OR DEATH FROM ROLLOVER: Keep roll bar in the raised and locked position and use seat belt.

There is NO ROLL OVER PROTECTION WHEN THE ROLL BAR IS DOWN. Lower the roll bar only when absolutely necessary. Do not wear seat belt when the roll bar is down. Drive slowly and carefully. Raise the roll bar as soon as clearance permits. Read and follow slope operation instructions and warnings.

8

⚠ DANGER

COVER IS MISSING. DO NOT OPERATE THIS UNIT WHEN COVER IS NOT IN PLACE.

14

HYDRAULIC OIL - USE ONLY

MOBIL 1 SAE 10W-50 SYNTHETIC ENGINE OIL

FILL TO TOP OF DAILE

⚠ CAUTION

HOT SURFACE

15

16

Lubricate Blade Bolt threads with copper based antiseize or grease and torque to 55-60 ft-lbs (75-81 N-m)

17

⚠ WARNING

- Hot exhaust components may ignite fuel or debris.
- Fire or explosion may occur, resulting in property damage, personal injury or death.
- Do not operate without entire exhaust system in place and in proper working condition.

18

LAZER Z HP

20

eXmark

21

TRI VANTAGE

19

CHECK/SERVICE REFERENCE AID

GREASE LUBE POINTS AT INTERVALS SHOWN.

- CHECK HYDRAULIC FLUID AT INTERVAL SHOWN. (USE ONLY MOBIL 1 15W-40 SYNTHETIC MOTOR OIL.)
- SEE ENGINE OPERATOR'S MANUAL FOR SERVICING ENGINE.
- CHECK TIRE PRESSURE IN PNEUMATIC TIRES - 13 PSI AT INTERVAL SHOWN. SEE OPERATORS MANUAL FOR ADDITIONAL DETAILS.

22

Torque Wheel Lug Nuts to 90-95 ft-lbs (122-129 N-m). Check after first 100 hrs then every 500 hrs thereafter.

Torque Wheel Hub Bolts to 125 ft-lbs (169 N-m) max. (See Operator's Manual for more details.)

23

Engage and disengage at 1/2 throttle.

24

CHOKE

25

⚠ WARNING

Battery contains sulfuric acid. Avoid contact and always shield eyes, face, skin and clothing from battery. Cigarettes, flames or sparks could cause battery to explode. Do not charge or use booster cables or adjust post connections without proper training. In event of an accident flush with water immediately. Keep out of reach of children.

MOTION CONTROL

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103-4890

MOTION CONTROL

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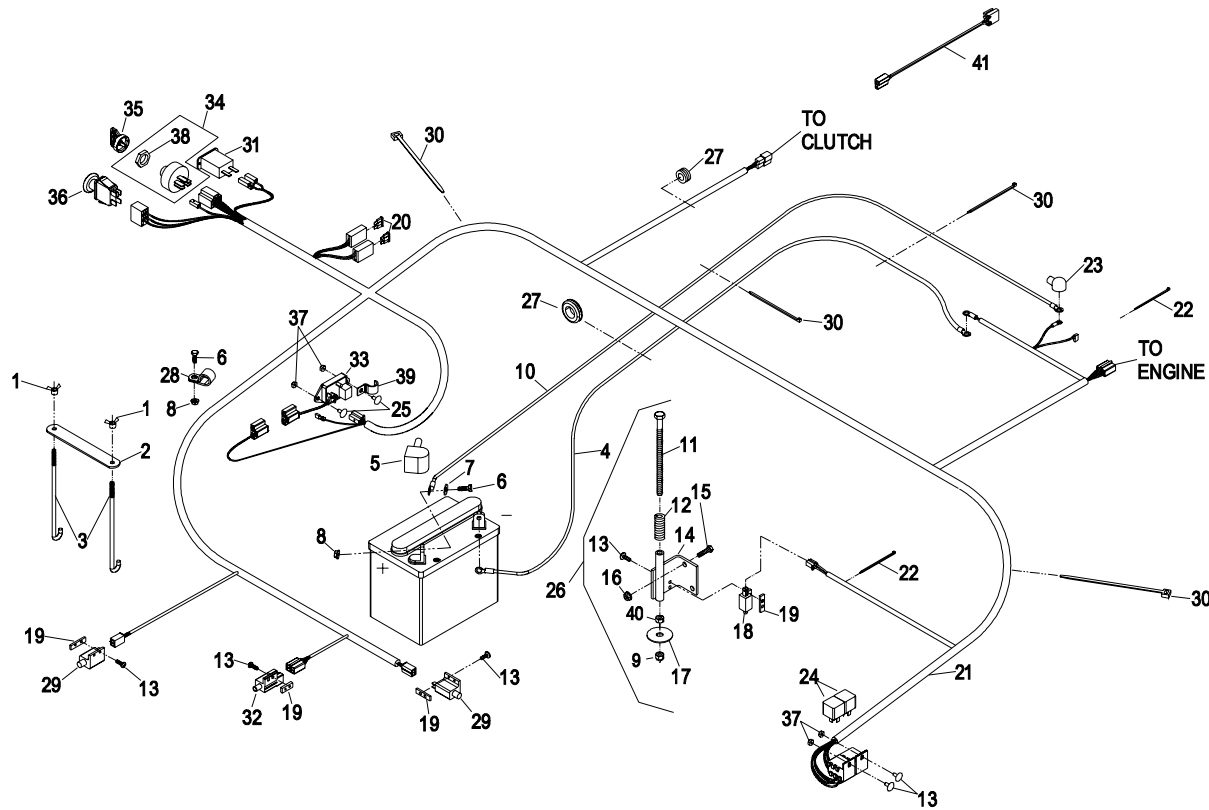
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ELECTRICAL GROUP



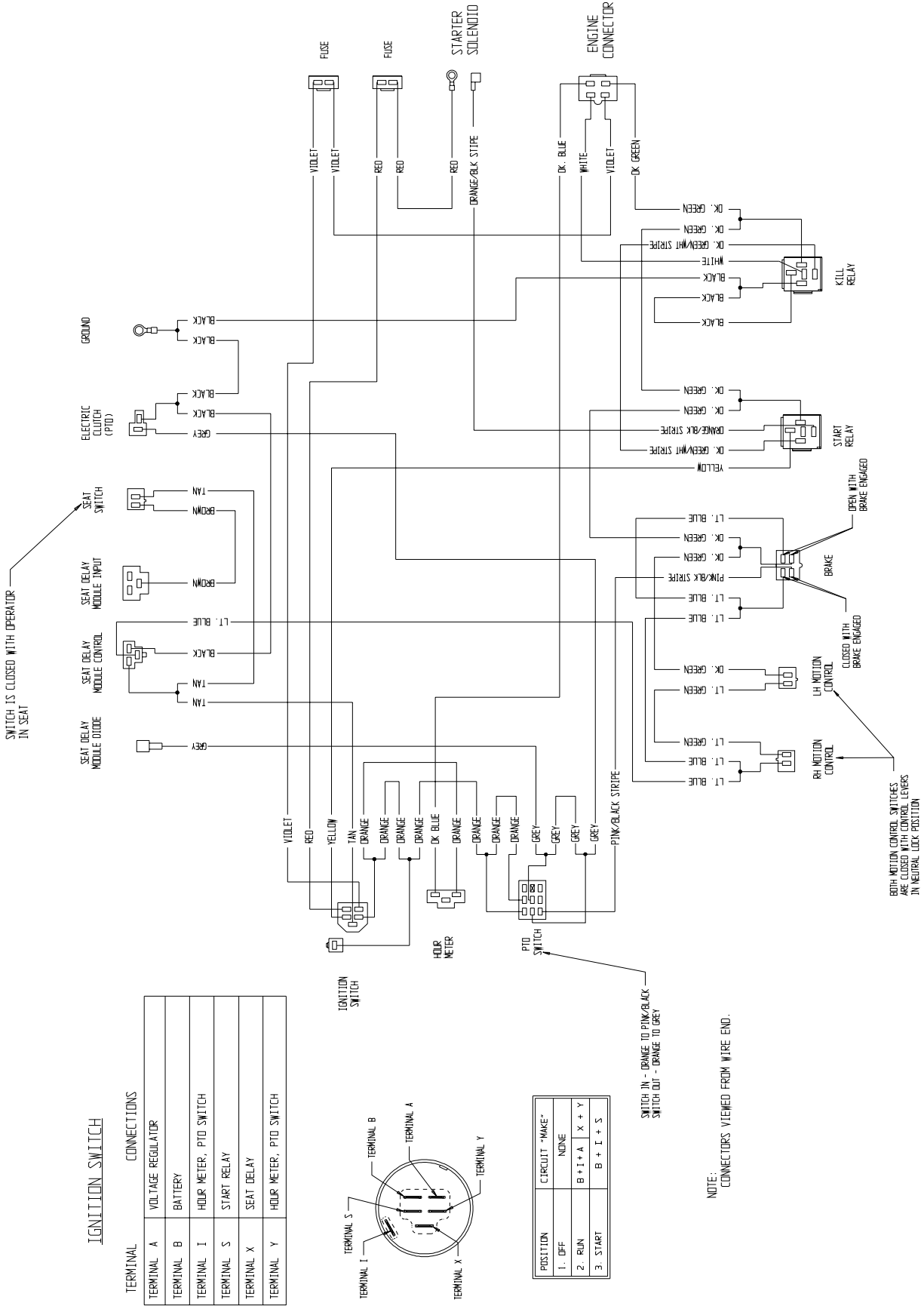
Item	Part No.	Description	Qty.
1	1-543792	Wingnut, Nyloc 1/4-20.....	2
2	107-9277-03	Strap, Battery Holdown	1
3	1-633651	Bolt, Battery Holdown.....	2
4	103-0705	Cable, Ground (-).....	1
5	109-2407	Insulator, Battery.....	1
6	321-4	Screw, 1/4-20 x 3/4	3
7	3256-2	Washer, 1/4 Flat	2
8	32128-33	Nut, 1/4-20 Whizlock	3
9	3296-29	Nut, Nyloc 5/16-18	1
10	109-7630	Cable, Battery (+).....	1
11	1-800282	Screw, 5/16-18 x 7	1
12	1-523415	Spring, Seat Switch.....	1
13	3290-500	Screw, #10-24 x 5/8	10
14	1-652072-03	Bracket Wldmt, Seat Switch.....	1
15	322-3	Screw, 5/16-18 x 3/4	2
16	32128-20	Nut, Whizlock 5/16-18.....	4
17	1-653036	Washer	1
18	1-513152	Switch, Seat.....	1
19	1-633181	Plate	4
20	1-816001	Fuse-20 Amp	2
21◆	103-9259	Harness, Wiring	1

Item	Part No.	Description	Qty.
22	1-303287	Plastic Tie, Small	2
23	1-543393	Insulator, Solenoid (+).....	1
24	1-643275	Relay, 12 V	2
25	1-803075	Screw-head, Truss [#10-24X.75].....	2
26	103-5685	Asm, Seat Switch Actuator	1
27	1-543286	Grommet	2
28	1-633396	Clip, Loom 5/8	1
29	1-513051	Switch, Drive Lever N.O.....	2
30	1-303335	Plastic Tie, Large	4
31	1-513374	Meter, Engine Hours.....	1
32	1-633111	Switch, Brake N.O./N.C.....	1
33	103-5218	Module, Seat Delay	1
34	109-4736	Asm, Switch W/Nut.....	1
35	103-2106	Key, Exmark Logo	1
	1-603511	Key, Ignition.....	1
36	103-5221	Switch, Blade.....	1
37	3296-2	Nut, Nyloc #10-24	4
38	103-0498	Nut, Ignition	1
39	103-1193	Clip, Loom Half	1
40	3217-6	Nut, Hex 5/16-18.....	1
41	109-9274	Harness, Clutch.....	1

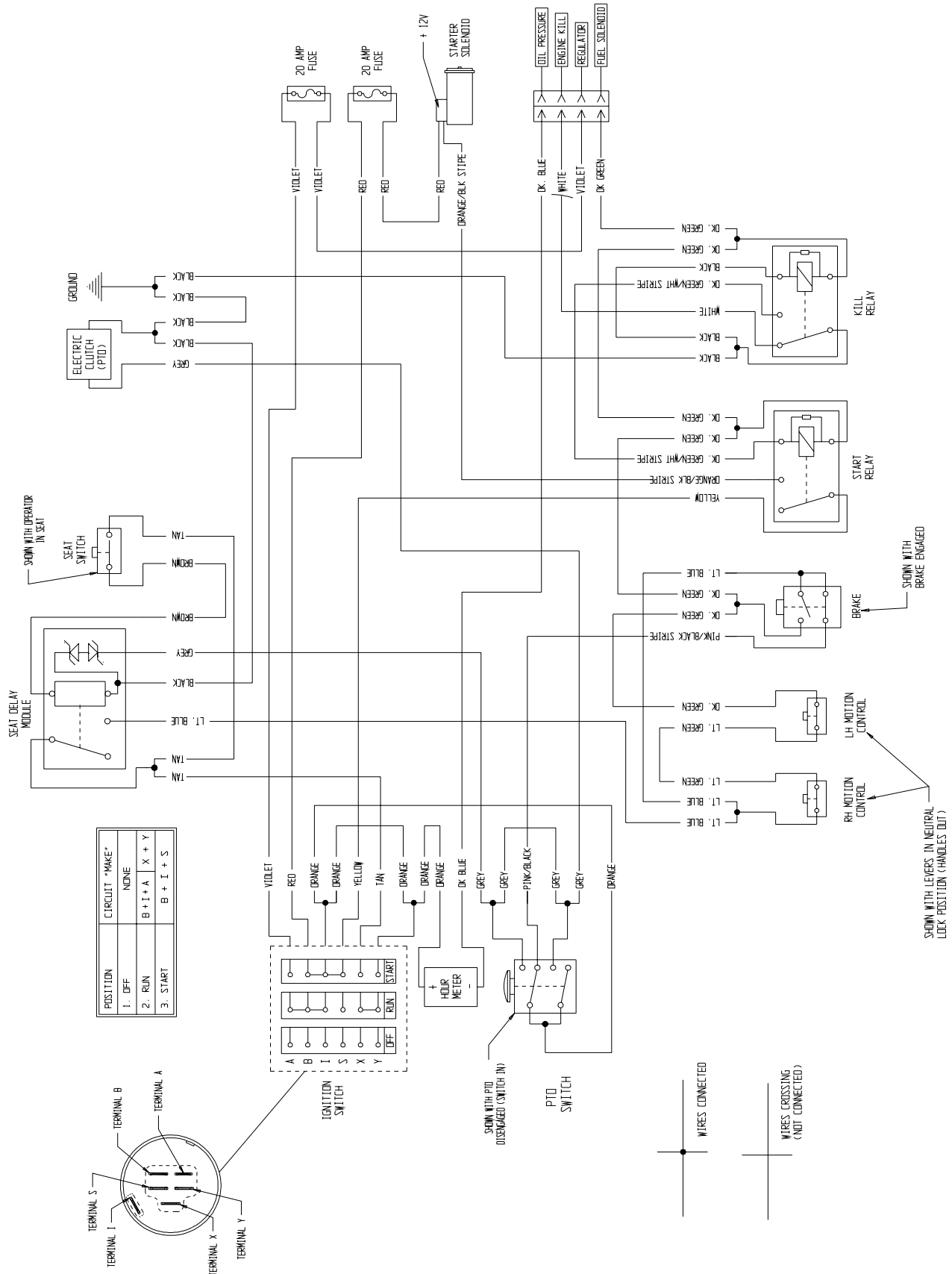
Exmark black touch up spray paint – gloss black.

◆ Use dielectric grease on all wiring harness connectors.

ELECTRICAL DIAGRAM



ELECTRICAL LOGIC SCHEMATIC



NOTES

SEE EXMARK'S COMPLETE LINE OF ACCESSORIES

MID-MOUNT RIDING ACCESSORIES

CUSTOM RIDE SEAT SUSPENSION SYSTEM	ROLL OVER PROTECTION SYSTEM (ROPS)
DECK LIFT ASSIST KIT	SNOW BLADE
HITCH KIT	SUN SHADE
LAZERLOCKER	TRASH CONTAINER
LIGHT KIT	TURF STRIPER
MICRO-MULCH SYSTEM	ULTRA VAC COLLECTION SYSTEM
OPERATOR CONTROLLED DISCHARGE	ULTRA VAC QUICK DISPOSAL SYSTEM

OUT-FRONT RIDING ACCESSORIES

CUSTOM RIDE SEAT SUSPENSION SYSTEM	SNOW BLADE
DUAL-TAIL WHEEL	SNOWBLOWER
FLOOR PAN EXTENDER	SUN SHADE
HITCH KIT	TRASH CONTAINER
LIGHT KIT	ULTRA VAC COLLECTION SYSTEM
MICRO-MULCH SYSTEM	ULTRA VAC QUICK DISPOSAL SYSTEM
ROLL OVER PROTECTION SYSTEM (ROPS)	WEATHER CAB
ROTARY BROOM	

WALK-BEHIND ACCESSORIES

GRASS CATCHER	TURF STRIPER
LAZERLOCKER	STANDON
MICRO-MULCH SYSTEM	

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

Model No. _____

Serial No. _____

Date Purchased _____

Engine Model No. and Spec. No. _____

Engine Serial No. (E/No) _____

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