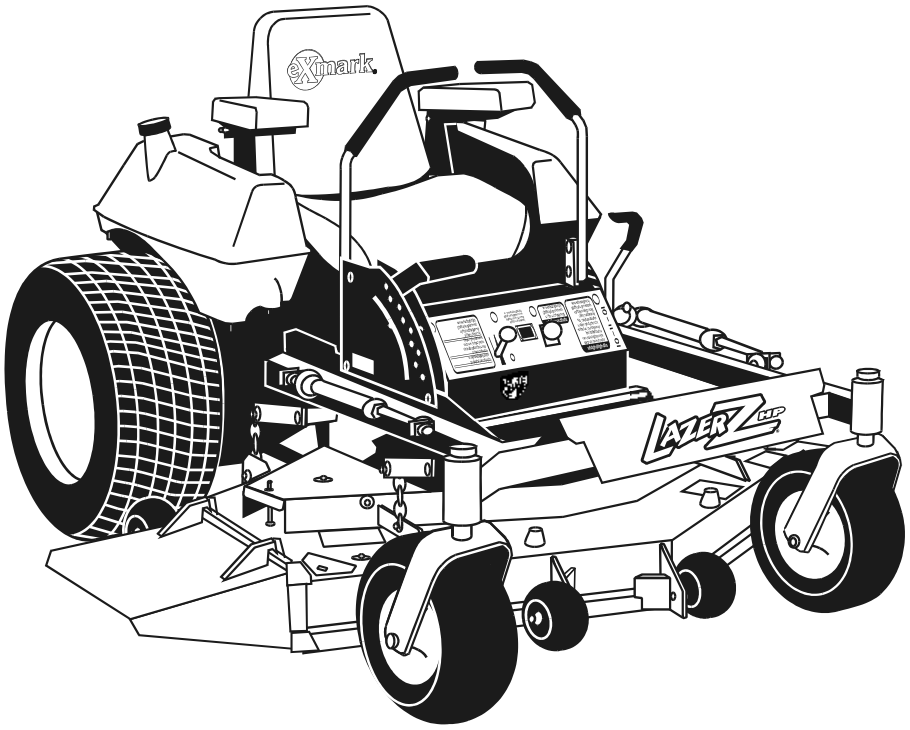
For Serial Nos. 370,000 & Higher

eXmark® MFG. CO. INC.



PARTS MANUAL

LAZER Z® HP

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 right side of the console. 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. 103-3016

EXMARK PARTS PLUS® PROGRAM

EFFECTIVE DATE: September 1, 1995



Program

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

How the Program Works

1. If dealer does not have part in stock for a "down" unit at the time of request by customer, the dealer contacts his distributor by 1:00 p.m., local time, and requests Exmark Parts Plus® shipment of six (6) line items or less.

2. Distributor ships part(s) to dealer or customer, as requested by dealer, same day, overnight UPS Distributor bills dealer for part and freight charges where applicable.

3. If distributor does not have the part(s) in stock to satisfy Exmark Parts Plus® order, he contacts Exmark by 3:00 p.m., central time, with an Exmark Parts Plus® order of six (6) line items or less.

4. If order is received by 3:00 p.m. central time, Exmark ships part(s) direct to dealer or customer, as requested by distributor, same day, overnight UPS Exmark bills the distributor for parts and shipping charges, where applicable.

5. The customer pays for the part and freight if it is shipped under the Exmark Parts Plus® and if it arrives in accordance to the program.

6. Who pays for the part and freight if it fails to arrive overnight in accordance to the program?

   A. Under any circumstance the customer does not pay.

   B. If the part does not arrive overnight due to:

      1. The dealer not submitting the Exmark Parts Plus® order to his Exmark distributor by 1:00 p.m., the dealer pays for the part and freight.

      2. The Distributor being unable to ship the part the same day or not submitting the Exmark Parts Plus® order to Exmark by 3:00 p.m., central time, the Distributor pays for the part and freight.

      3. Exmark being unable to ship the part and the Exmark parts order is received by 3:00 p.m., central time, Exmark pays for the part and freight.

      4. If the part does not arrive overnight due to the shipper (UPS), the shipper pays for the freight and Exmark pays for the part.

The following restrictions apply -- The Exmark Parts Plus® Program is available only through participating Exmark Dealers and applies only to orders submitted on this program Monday through Thursday. Parts Plus service is available only in the contiguous 48 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.

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44” and 48” DECK GROUP

Ref. No.	Part No.	Description	Qty. Req'd.
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	5
5	1-800017	Bolt, 5/16 x 3 1/4 tap	2
6	3290-357	Nut, whizlock 3/8-16	6
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	8
13	1-653189	Plate, Belt guide	1
14	1-653190	Spacer	1
15	1-413099	Pulley, Idler	1
16	1-413308	Belt, deck drive (48”)	1
	1-413093	Belt, deck drive (44”)	1
17	3296-39	Nut, nyloc 3/8-16	1
18	3256-4	Washer, 3/8 std flat	1
19	1-513034	Bearing, pivot	2
20	1-633151	Spring, extension	1
21	321-1	Screw, 1/4-20 x 3/8 (48”)	4
	321-1	Screw, 1/4-20 x 3/8 (44”)	2
22	1-652192-01	Idler arm wldmt	1
	1-654193	Idler arm wldmt w/bushings	1
23	1-603384	Bushing, idler pivot	1
24	1-800811	Screw, 7/16-14 x 1 1/2	8
25	32128-37	Nut, whizlock 7/16-14	16
26	1-633447	Chain, deck lift	4
27	1-651312	Deck wldmt (1-652311-01) w/decals (48”)	1
	1-654175	Deck wldmt (1-652124-01) w/decals (44”)	1
28	3253-7	Screw, 3/8-16 x 3 1/2	1
29	323-13	Screw, 3/8-16 x 2 3/4	2
30	32128-33	Nut, whizlock 1/4-20 (48”)	4
	32128-33	Nut, whizlock 1/4-20 (44”)	2
31	1-543963	Bumper, rubber	1
32	322-2	Screw, 5/16-18 x 5/8	2
33	98-5961	Screw, 3/8-16 x 4 gr 8	3
34	1-603602	Bushing, roller	3
35✶	1-603299	Roller, anti-scalp	3
36	1-373034	Washer, swivel	3

Ref No.	Part No.	Description	Qty. Req'd.
37	322-5	Screw, 5/16-18 x 1	2
38	1-402106-01	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	1-522480-01	Baffle, discharge	1
47	1-800344	Screw, 5/8-11 x 6	2
48	302-19	Zerk, 1/4-18 straight	5
49	103-1072-01	Strut wldmt	2
50	1-654550	Deck complete service (44”)	1
	1-654551	Deck complete service (48”)	1
51	3217-46	Nut, 3/4-16 heavy	3
52	103-2802	Washer, disc spring 3/4	3
53✚	1-653099	Sheave, blade drive (44”)	3
✚	1-413425	Sheave, blade drive (48”)	3
54	323-7	Screw, 3/8-16 x 1 1/4	18
55✚	103-1330	Guard, bearing top	3
56✚	103-2477	Bearing, ball	6
57	1-323532	Housing, bearing	3
58	3296-32	Nut, 3/8-16 nyloc	18
59	103-2534	Spacer, bearing	3
60	32120-8	Snap Ring	3
61	103-2535	Spacer, guard bottom	3
62✚	103-2787	Spindle	3
63	1-807268	Key, machine	3
64	103-2529	Blade, notched (44”)	3
	103-2509	Blade, low lift (44”)	3
□	103-2519	Blade, mulching (44”)	3
	103-1579	Blade, solid (44”)	3
	103-2527	Blade, notched (48”)	3
	103-2507	Blade, low lift (48”)	3
□	103-2517	Blade, mulching (48”)	3
	103-1577	Blade, solid (48”)	3
65	103-0865	Washer, disc spring 5/8	3
66	103-0862	Screw, 5/8-18 x 2 3/4 gr 8	3
67	103-2547	Cutter housing assembly	3
68♦	103-3220	Cutter Housing Complete (44”)	3
♦	103-3221	Cutter Housing Complete (48”)	3

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

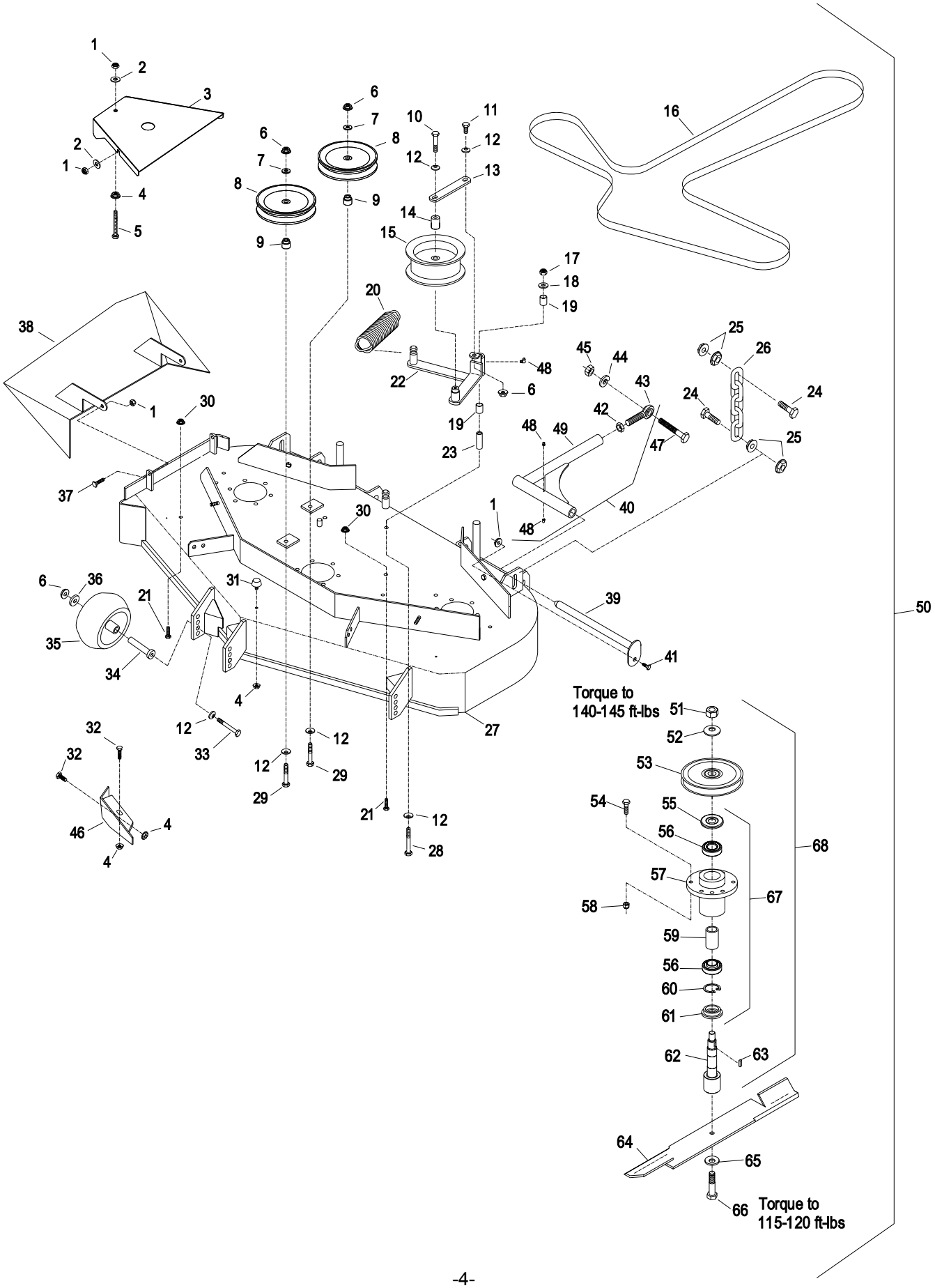
□ Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK443(44”), MK483(48”)

✚ Apply Mobil HTS grease (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.

♦ Complete cutter housings also include items 65 & 66.

44” and 48” DECK GROUP



52” DECK GROUP

Ref. No.	Part No.	Description	Qty. Req'd.
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 ¼ tap	2
6	3290-357	Nut, whizlock 3/8-16	8
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 ¼	1
11	323-6	Screw, 3/8-16 x 1	1
12	98-5975	Washer, disc spring 3/8	10
13	1-653189	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	1
18	3256-4	Washer, 3/8 std flat	1
19	1-513034	Pivot, Bearing	2
20	1-633151	Spring, extension	1
21	321-1	Screw, ¼-20 x 3/8	4
22	1-652192-01	Idler arm wldmt	1
	1-654193	Idler arm wldmt w/bushings	1
23	1-603384	Bushing, idler pivot	1
24	1-800811	Screw, 7/16-14 x 1 1/2	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	1-800805	Screw, 3/8-16 x 3 1/2	1
29	323-13	Screw, 3/8-16 x 2 3/4	2
30	32128-33	Nut, whizlock ¼-20	4
31	1-543963	Bumper, rubber	2
32	322-2	Screw, 5/16-18 x 5/8	3
33	98-5961	Screw, 3/8-16 x 4 gr 8	5
34	1-603602	Bushing, roller	5
35✶	1-603299	Roller, anti-scalp	5
36	1-373034	Washer, swivel	5
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, ¼-18 straight	5
49	103-1072-01	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✚	103-2477	Bearing, ball	6
57	1-323532	Housing, bearing	3
58	3296-32	Nut, 3/8-16 nyloc	18
59	103-2534	Spacer, bearing	3
60	32120-8	Snap Ring	3
61	103-2535	Spacer, guard bottom	3
62✚	103-2787	Spindle	3
63	1-807268	Key, machine	3
64	103-2528	Blade, notched	3
	103-2508	Blade, low lift	3
□	103-2518	Blade, mulching	3
	103-1578	Blade, solid	3
65	103-0865	Washer, disc spring 5/8	3
66	103-0862	Screw, 5/8-18 x 2 3/4 gr 8	3
67	103-2547	Cutter housing assembly	3
68♦	103-3222	Cutter Housing Complete	3

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

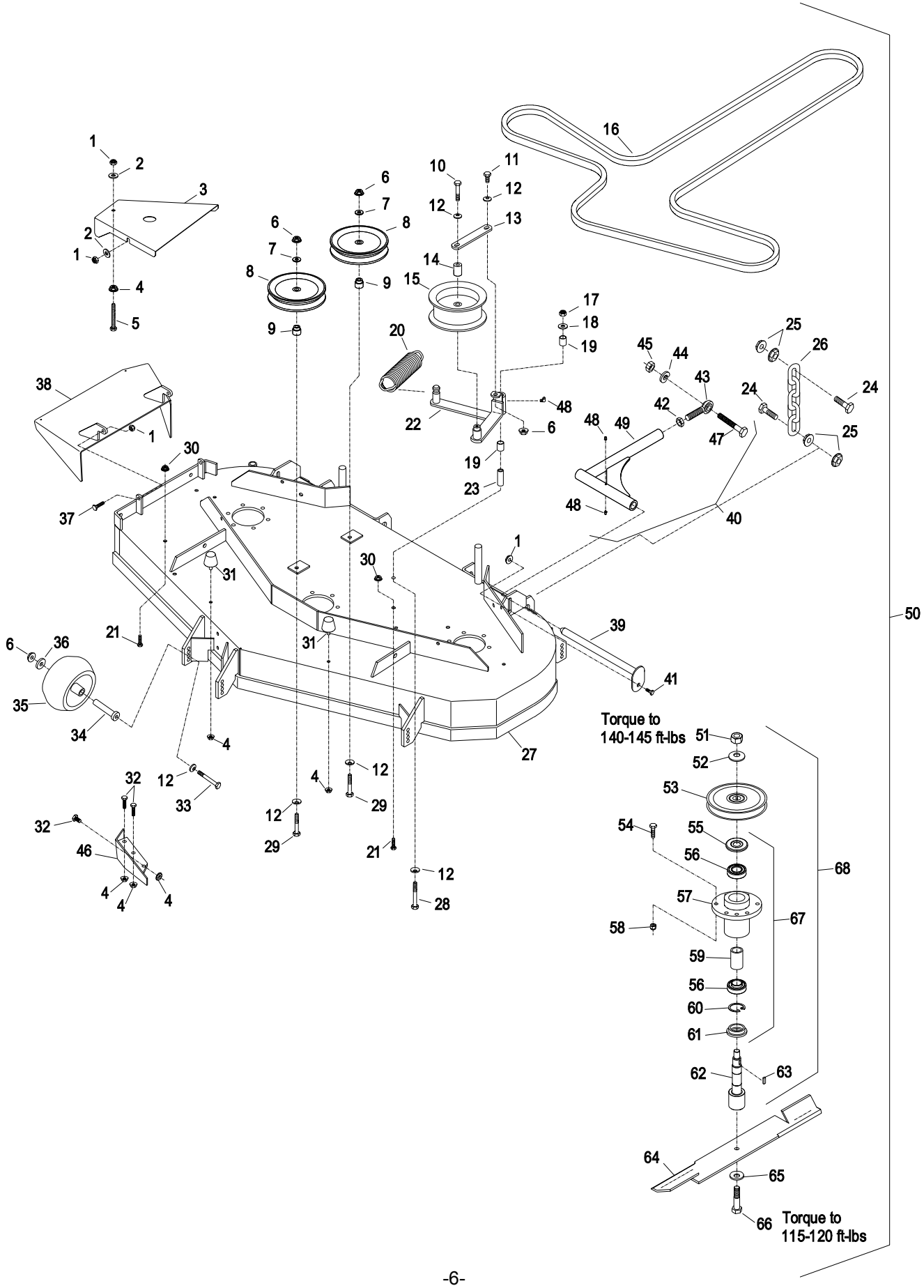
□ Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK523(52”)

✚ Apply Mobil HTS grease (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.

♦ Complete cutter housings also include items 65 & 66.

52” DECK GROUP



FRONT FRAME GROUP

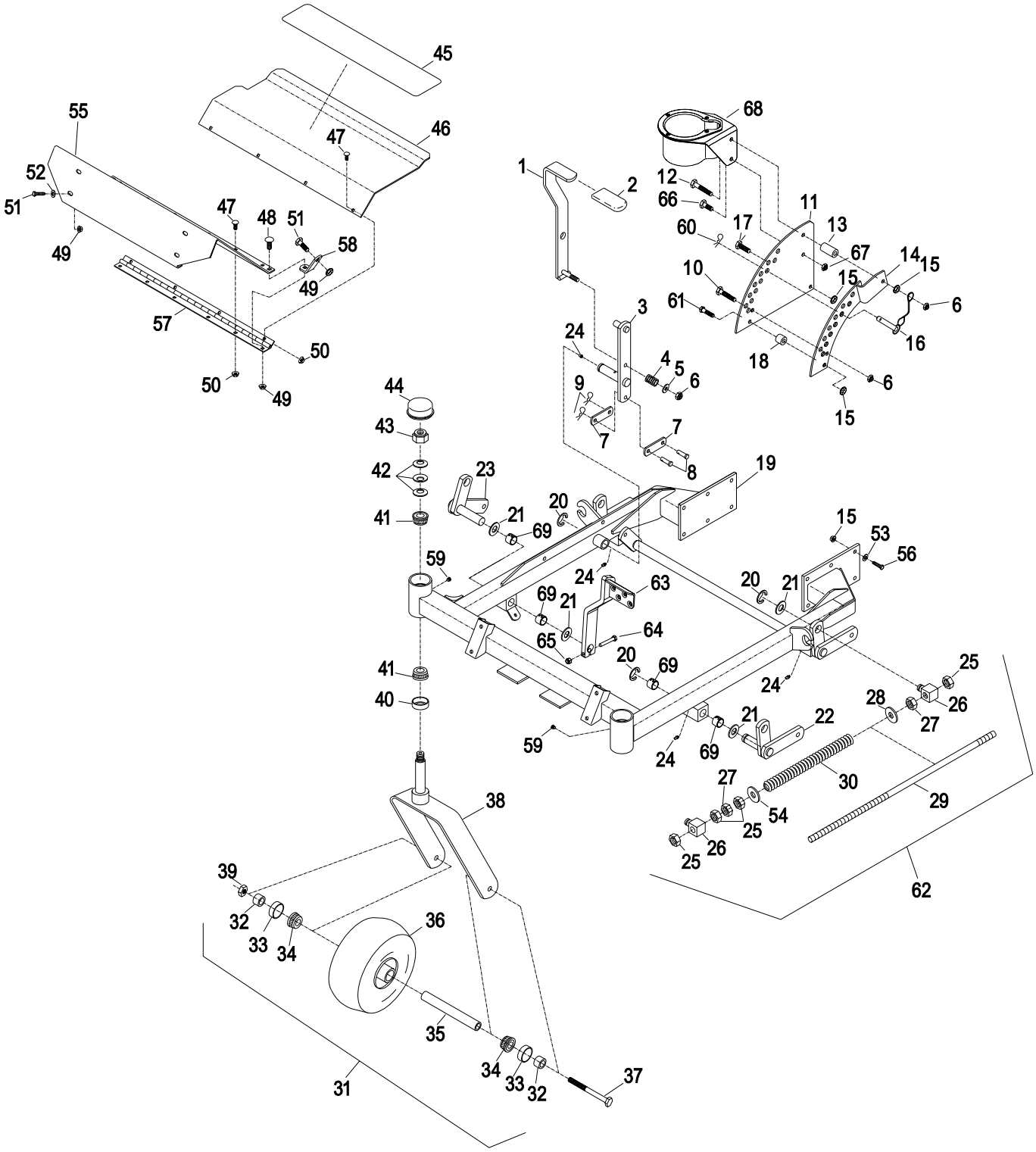
Ref. No.	Part No.	Description	Qty. Req'd.
1	103-2081	Asm, lever w/grip (103-2078-03)	1
2	1-633295	Grip, lift lever	1
3	1-652027-03	Arm wldmt, deck lift	1
4	1-633325	Spring, compression	1
5	3256-24	Washer, 3/8 SAE	1
6	3296-39	Nut, nyloc 3/8-16 (44")	3
	3296-39	Nut, nyloc 3/8-16 (48"&52")	2
7	1-633068	Arm, deck lift	2
8	1-808284	Clevis, pin 3/8 x 1	2
9	1-806003	Hairpin, cotter	2
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	1-652235-01	Plate wldmt, deck lift	1
15	3290-357	Nut, whizlock 3/8-16	15
16	1-633097	Hitch pin w/lanyard	1
17	323-6	Screw, 3/8-16 x 1	1
18	1-413088	Bushing, lift lever	1
19*	103-1991-01	Asm, front frame 44"	1
*	103-2460-01	Asm, front frame 48"	1
*	103-1994-01	Asm, front frame 52"	1
20	32151-103	E-ring (44")	7
	32151-103	E-ring (48"&52")	6
21	3256-29	Washer, 7/8 SAE flat (44")	6
	3256-29	Washer, 7/8 SAE flat(48"&52")	7
22	1-652013-01	Shaft wld,deck lift LH	1
23	1-652014-01	Shaft wld,deck lift RH (44")	1
◊	103-1674-01	Shaft wld,deck lift RH(48"&52")	1
24	302-19	Zerk, ¼-28 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	103-0068	Caster wheel assy	2
32	1-633581	Spacer, bearing	4
33	103-0063	Seal, bearing	4
34	1-633585	Bearing cone	4
	1-633584	Bearing, cup	2
35	1-633579	Spacer, front caster	2
36	103-0064	Wheel & tire assy	2
	1-633002	Tire, 13x5.0-6 4 ply	2
	103-0070	Wheel	2
37	325-36	Screw, ½-13 x 7 1/2	2
38	1-632511-01	Caster wldmt	2
39	3296-45	Nut, nyloc ½-13 (light thin)	2
40	1-543511	Seal, grease	2
41	1-543509	Bearing cone, tapered roller	4
	1-543508	Bearing cup, tapered roller	4
42	1-633508	Washer, spring disk	6
43	3296-51	Nut, nyloc ¾-10	2
44	1-543513	Cap, grease	2
45	1-633553	Pad, anti-skid	2
46	103-3428	Asm,floorpan(99-3869-01) w/pad & decals	1
47	3229-10	Bolt, carriage ¼-20 x 1/2	10
48	3230-1	Bolt, carriage 5/16-18 x 3/4.	2
49	32128-20	Nut, whizlock 5/16-18	8
50	32128-33	Nut, whizlock ¼-20 (44")	10
	32128-33	Nut, whizlock ¼-20 (48"&52"	11
51	322-3	Screw, 5/16-18 x ¾ (44"& 48")	6
52	3256-3	Washer, 5/16 SAE flat(44"&48")	4
53	98-5975	Washer, 3/8 disc spring	12
54	3256-27	Washer, 5/8 SAE flat	2
55	103-3451	Asm,flrpan front (99-3868-01) w/decal	1
56	323-7	Screw, 3/8-16 x 1 1/4	12
57	1-653049	Hinge, floorpan (piano)	1
58	99-3870-01	Bracket, floorpan	2
59	1-811010	Plug	2
60	1-806005	Hairpin, cotter (service only)	1
61	323-8	Screw, cap HH3/8-16 x 1 1/2	1
62	103-1987	Asm, deck lift spring	1
63◊	103-1673-01	Wld, foot lift assist lever	1
64◊	322-10	Screw, 5/16-18 x 2	1
65◊	1-803013	Nut, torque 5/16-18	1
66◊	321-2	Screw, 1/4-20 x 1/2	1
67◊	3296-59	Nut, nyloc 3/8-16 light thin	1
68◊	103-2437	Asm, cup holder	1
69	103-1982	Bushing, spring	4

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

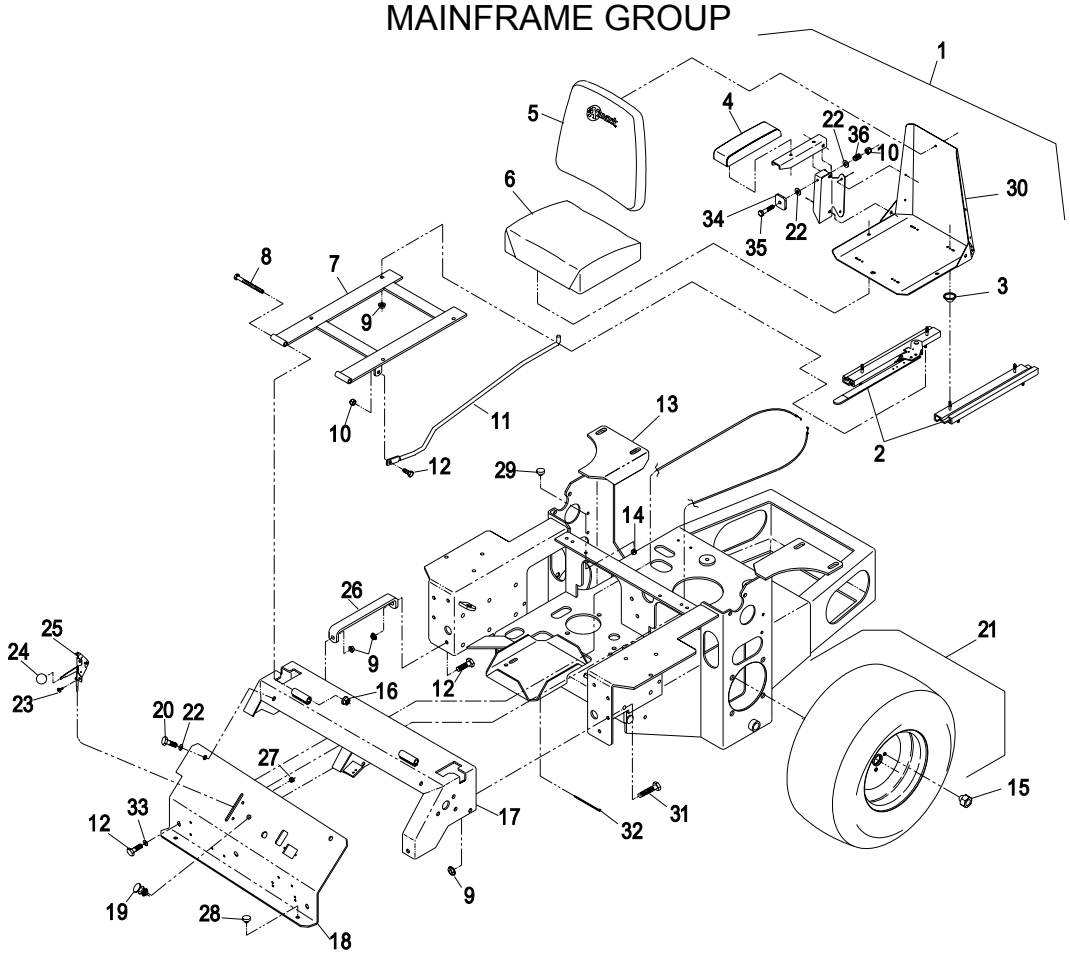
* Includes frame weldment plus items 22, 23 & 63 (item 63 not included with 44").

◊ Standard on 48" and 52" units. Optional on 44" units (Cup holder kit P/N 1-641284, Deck lift assist kit P/N 103-1675).

FRONT FRAME GROUP



MAINFRAME GROUP

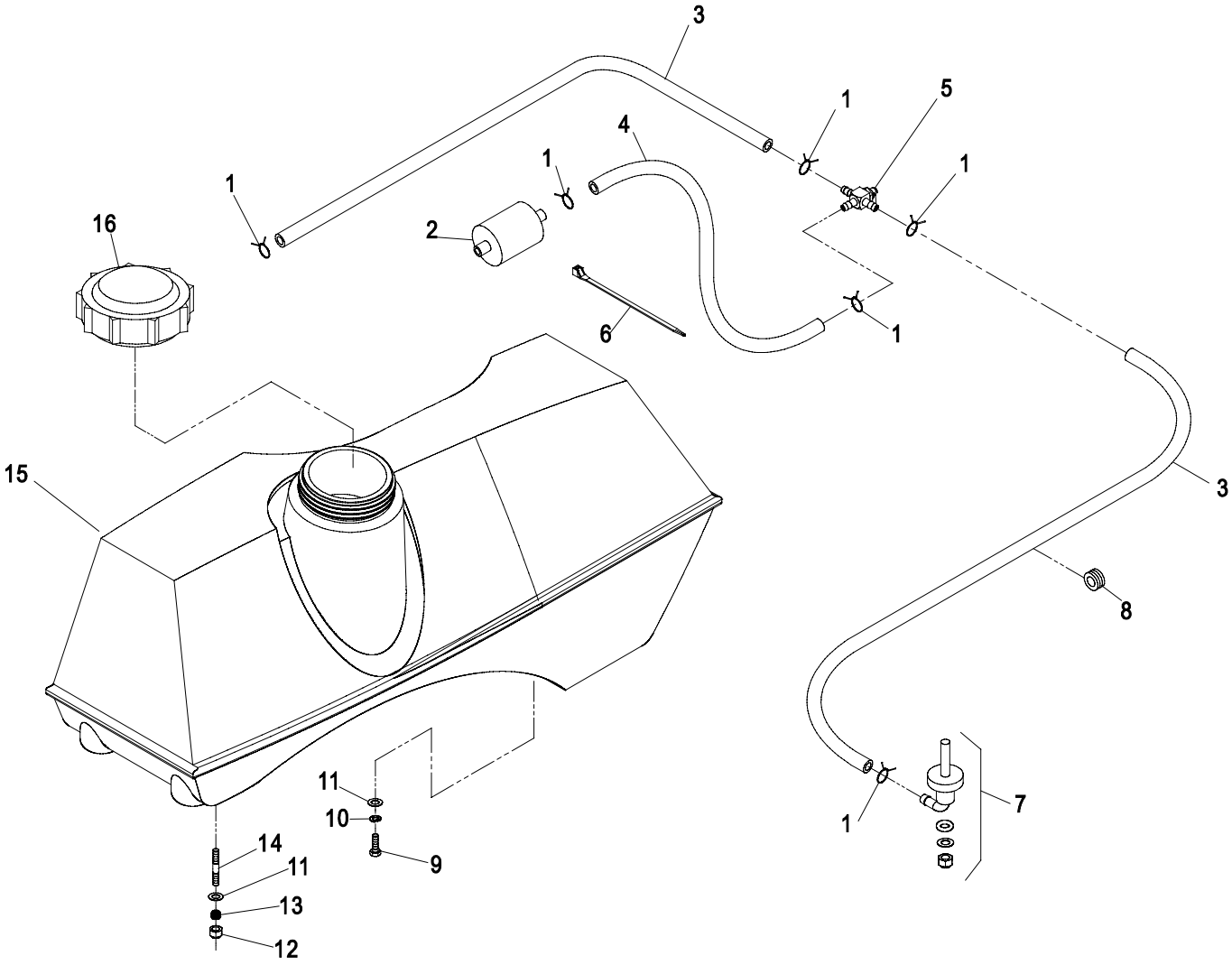


Ref. No.	Part No.	Description	Qty. Req'd.
1	103-0465	Seat, complete w/armrests	1
2	1-643255	Track, seat (4" adjust.)	1
3	1-543401	Spacer, seat track	2
4	103-0292	Cushion, armrest (RH)	1
*	103-0291	Cushion, armrest (LH)	1
5	103-0289	Cushion, backrest	1
6	103-0290	Cushion, seat	1
7	1-632187-03	Frame, seat mount	1
8	323-39	Screw, 3/8-16 x 5	2
9	32128-20	Nut, whizlock 5/16-18	12
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	103-3429	Asm,mainframe(103-2917-03) w/decals	1
14	3296-42	Nut, nyloc ¼-20	2
15	242-50	Nut, wheel ½-20	8
16	3296-39	Nut, nyloc 3/8-16	2
17	103-3452	Asm,console(103-2197-03) w/decals	1
18	103-0724	Panel,instrument (103-1194-03) w/decals	1
19	103-3085	Control,choke (push-pull)(Koh)	1
	1-603336	Control,choke (push-pull)(Kaw)	1
20	322-3	Screw, 5/16 –18 x ¾	3
21	103-2769	Wheel/tire assy (44"deck)	2
	103-2770	Wheel/tire assy(48"&52"deck)	2
	1-653158	Wheel (44" deck)	2
	1-653161	Wheel (48" & 52" deck)	2
	103-2771	Tire, 24 x 9.5-12 4 ply	2
22	3256-23	Washer, flat 5/16 SAE	6
23	1-807513	Bolt, carriage #10-24x½	2
24	1-513592	Ball, (red) throttle cable	1
25	103-3086	Control, throttle (Koh)	1
	1-633696	Control, throttle (Kaw)	1
26	1-653089-03	Bracket, instrument panel	1
27	3296-2	Nut, nyloc #10-24	2
28	1-513658	Bumper	2
29	1-523420	Bumper, rubber	2
30	1-633859	Seat frame	1
31	322-2	Screw, 5/8-18 x 5/8	6
32	1-303335	Tie, plastic	1
33	3256-3	Washer, flat std 5/16	2
34	103-0284	Tab	2
35	322-7	Screw, HHC 5/16-18x1½	2
36	1-633349	Spring	2

*Not Illustrated

Exmark black touch up spray paint – gloss black

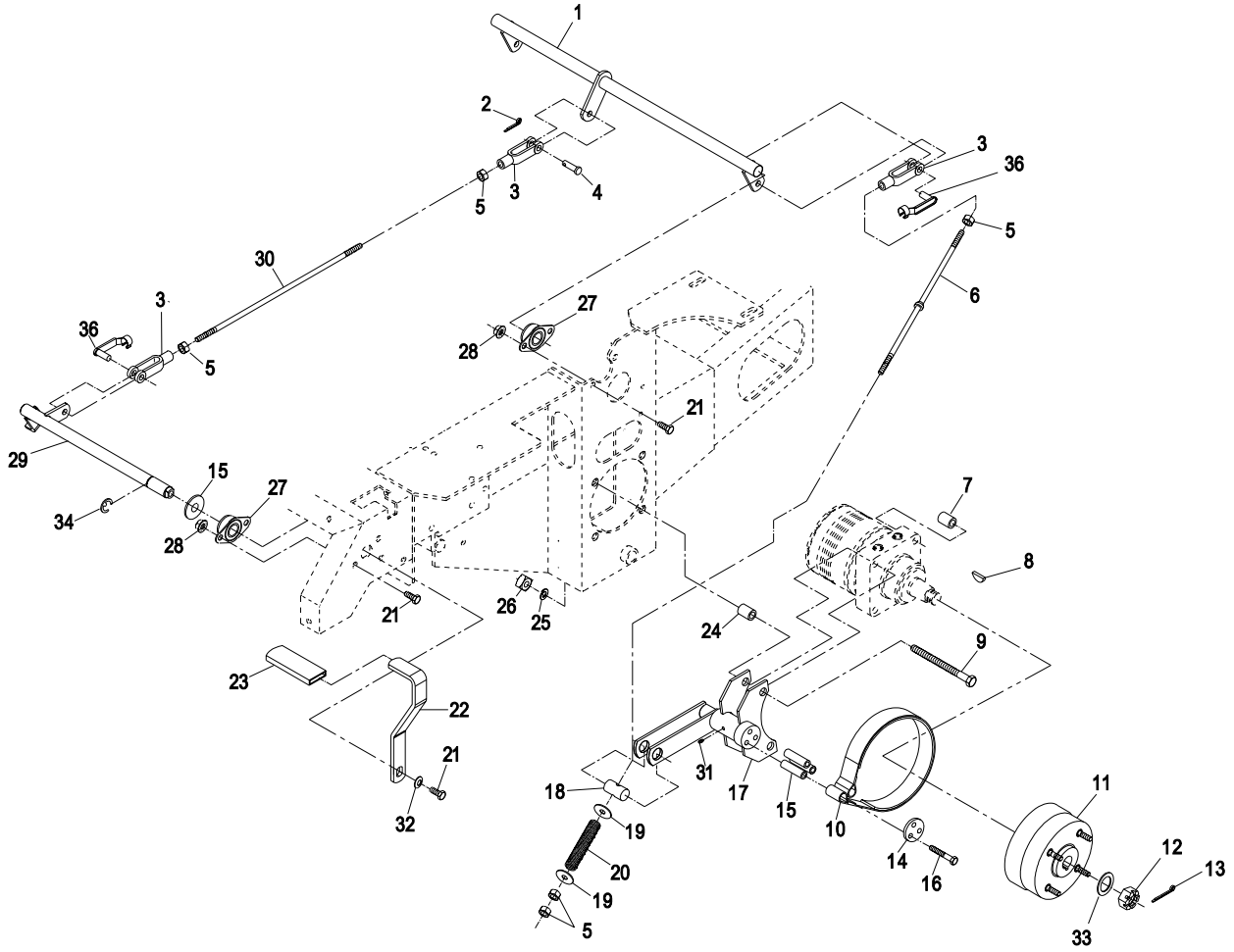
FUEL GROUP



Ref. No.	Part No.	Description	Qty. Req'd.
1	1-303077	Clamp, fuel line	6
2◆	**Kohler**	Part No. 2405002 Fuel filter	1
	Kawasaki	Part No. 49019-7001 Fuel filter	1
3	1-543526	Fuel line	2
4	103-0216	Fuel line	1
5	1-633347	Valve, fuel	1
6	1-303335	Plastic tie (large)	1
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	4
10	1-805005	Washer, lock 1/4	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*★	103-2122	Asm,tank fuel (LH)	1
★	103-2123	Asm,tank fuel (RH)	1
16	103-2107	Cap, fuel tank	2

* Not Illustrated
◊ Use Pro-Lock, Retaining Type (P/N 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.
▼ Use Pro-Lock Nut Type (P/N 840022, .5ml tube) on fuel fitting.

PARK BRAKE GROUP



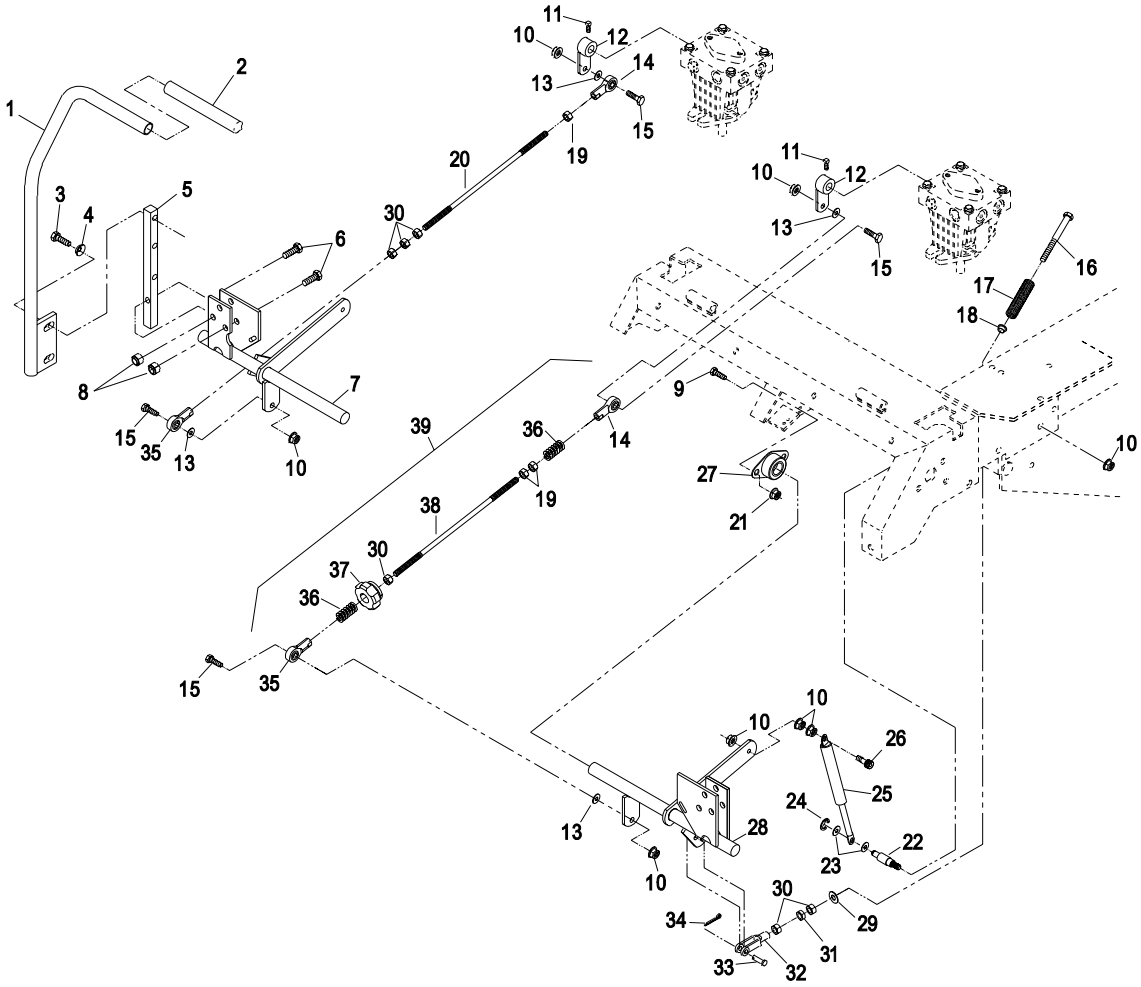
Ref. No.	Part No.	Description	Qty. Req'd.
1	1-652073-03	Crank wldmt, brake	1
2	3272-10	Pin, cotter 1/8 x 3/4	1
3	1-633131	Yoke	4
4	1-808285	Pin, clevis 3/8 x 1 1/8	1
5	3219-3	Nut, 3/8-24	8
6	103-0356	Rod, brake	2
7	1-653068	Spacer (long) 44"/48" deck	4
*	1-653380	Spacer (long) 52" deck	4
8	3257-42	Woodruff key, 5/16 x 1	1
9	325-13	Screw,½-13x3.25 G5(44"&48")	8
	1-800348	Screw, ½-13x4.25 G5 (52")	8
10	103-0355	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 1.75	6
17	103-0352-03	Bracket, brake 44"/48"	2
*	103-0353-03	Bracket, brake 52"	2

Ref. No.	Part No.	Description	Qty. Req'd.
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	1-653074-03	Lever, brake	1
23	1-633268	Grip, brake lever	1
24	1-653069	Spacer(short) 44"/48" deck	4
*	1-653381	Spacer(short) 52" deck	4
25	3253-7	Washer, lock ½	8
26	103-0131	Nut,sq.reg. ½-13UNC-2B	8
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	32151-48	Ring, retaining	1
35	103-2399	Pin, spring clevis	3

*Not Illustrated

Exmark black touch up spray paint – gloss black

MOTION CONTROL GROUP



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-0632	Handle 103-0410-03 w/grip (RH)	1	20	1-653046	Link, pump control	1
*	103-0631	Handle 103-0409-03 w/grip (LH)	1	21	3290-357	Nut, whizlock 3/8-16	8
2	1-633257	Grip, motion cntrl handle	2	22	1-653316	Pin, Damper Anchor	2
3	323-6	Screw, 3/8-16 x 1	4	23	3256-23	Washer, 5/16 SAE	4
4	98-5975	Washer, disc spring 3/8	4	24	32120-35	E-ring	2
5	103-0407	Arm, control shaft	2	25	103-2913	Damper	2
6	323-9	Screw, 3/8-16 x 1 3/4	6	26	1-403180	Screw, 5/16-18x1¼ special	4
7	103-2200	Bracket, motion cntrl (RH)	1	27	1-633102	Bearing, flanged	4
8	3296-39	Nut, nyloc 3/8-16	6	28	103-2199	Bracket, motion control(LH)	1
9	323-4	Screw, 3/8-16 x 3/4	8	29	3256-2	Washer, 1/4	2
10	32128-20	Nut, whizlock 5/16-18	12	30	3219-2	Nut, 5/16-24	8
11♦	1-803022	Setscrew, 5/16 x 5/8	2	31	3220-2	Nut, jam 5/16-24	2
12	1-653092	Arm, pump control	2	32	1-303105	Yoke	2
13	3256-3	Washer, 5/16 std	4	33	1-808280	Pin, clevis 5/16 x 1	2
14	1-633152	Ball joint (LH)	2	34	3272-5	Pin, cotter 3/32 x 1/2	2
15	322-6	Screw, 5/16-18 x 1 1/4	4	35	1-543017	Ball joint (RH)	2
16	1-603737	Bolt, (neutral return)	2	36	1-323245	Spring, compression	2
17	1-603807	Spring, (neutral return)	2	37	103-3060	Knob, tracking	1
18	1-603735	Bushing,nylon(revrse ind.)	2	38	103-3066	Link, tracking rod	1
19	1-804524	Nut, 5/16-24 (LH)	3	39	103-3063	Asm, tracking	1

Exmark black touch up spray paint – gloss black

* Not Illustrated

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

HYDRAULIC GROUP

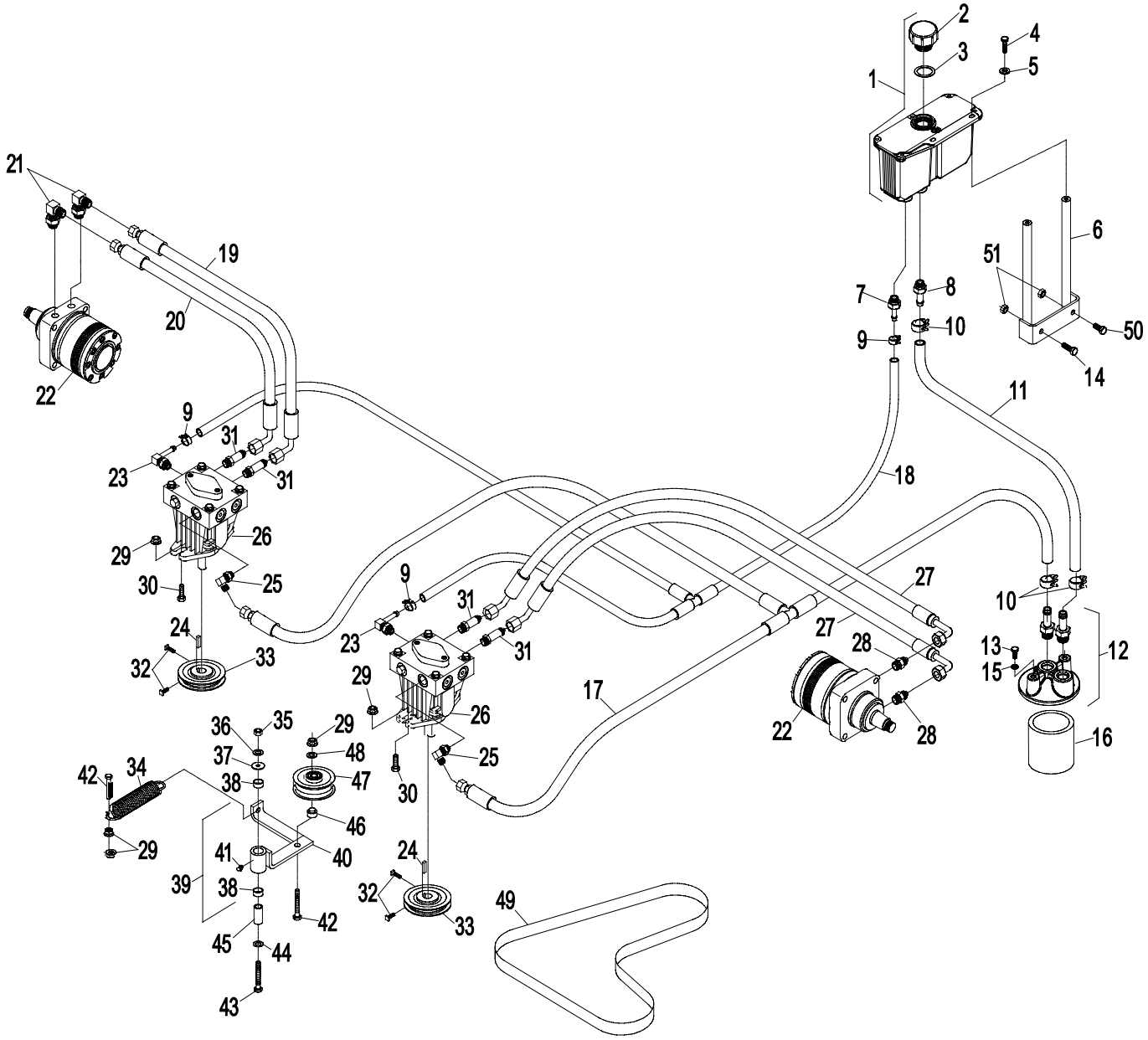
Ref. No.	Part No.	Description	Qty. Req'd.
1	103-1947	Asm, reservoir w/ decal	1
2	103-1948	Cap, hydraulic reservoir	1
3	103-1949	Gasket, reservoir cap	1
4	321-6	Screw, ¼-20 x 1.0	2
5	3256-22	Washer, flat SAE ¼	2
6	103-3071-03	Wld,reservoir stand	1
7	103-1801	Adapter, straight	1
	1-603921	Boss O-ring	1
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	1
15	1-805004	Lockwasher	2
16	1-513211	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	1-653187	Hose, RH rear 44" & 48"	1
	1-653437	Hose, RH rear 52"	1
20	1-653186	Hose, RH front 44" & 48"	1
	1-653436	Hose, RH front 52"	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	Wheel motor	2
	1-000139	Kit, bearing	1
	1-000099	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
26	103-1942	Pump, hydro	2
	103-2664	Kit,Input shaft 10A	1
	103-2665	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
27	103-1680	Hose, LH 44" & 48"	2
	103-1681	Hose, LH 52"	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	7
30	323-7	Screw, 3/8-16 x 1 ¼	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 44" & 48"	2
	1-413010	Sheave, pump drive 52"	2
34	103-1767	Spring, extension	1
35	3296-39	Nut, nyloc 3/8-16	1
36	98-5975	Washer, disc spring	1
37	1-373034	Washer, 7 Ga. x 1 ¼ O.D.	1
38	1-513034	Bearing	2
39	1-654143	Arm, idler w/ bearings	1
40	1-652142-03	Idler arm weldment	1
41	302-40	Zerk, 90° ¼-28	1
42	323-9	Screw, 3/8-16 x 1 ¾	2
43	323-13	Screw, 3/8-16 x 2 ¾	1
44	3256-4	Washer, 3/8 std flat	1
45	1-603044	Bushing, idler pivot	1
46	1-603496	Bushing, idler	1
47	1-603843	Pulley, idler	1
48	3256-24	Washer, 3/8 SAE flat	1
49	1-653163	Belt, pump drive 44" & 48"	1
	1-653416	Belt, pump drive 52"	1
50	322-3	Screw, 5/16-18 x .75	1
51	32128-20	Nut, 5/16-18 whizlock	2

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

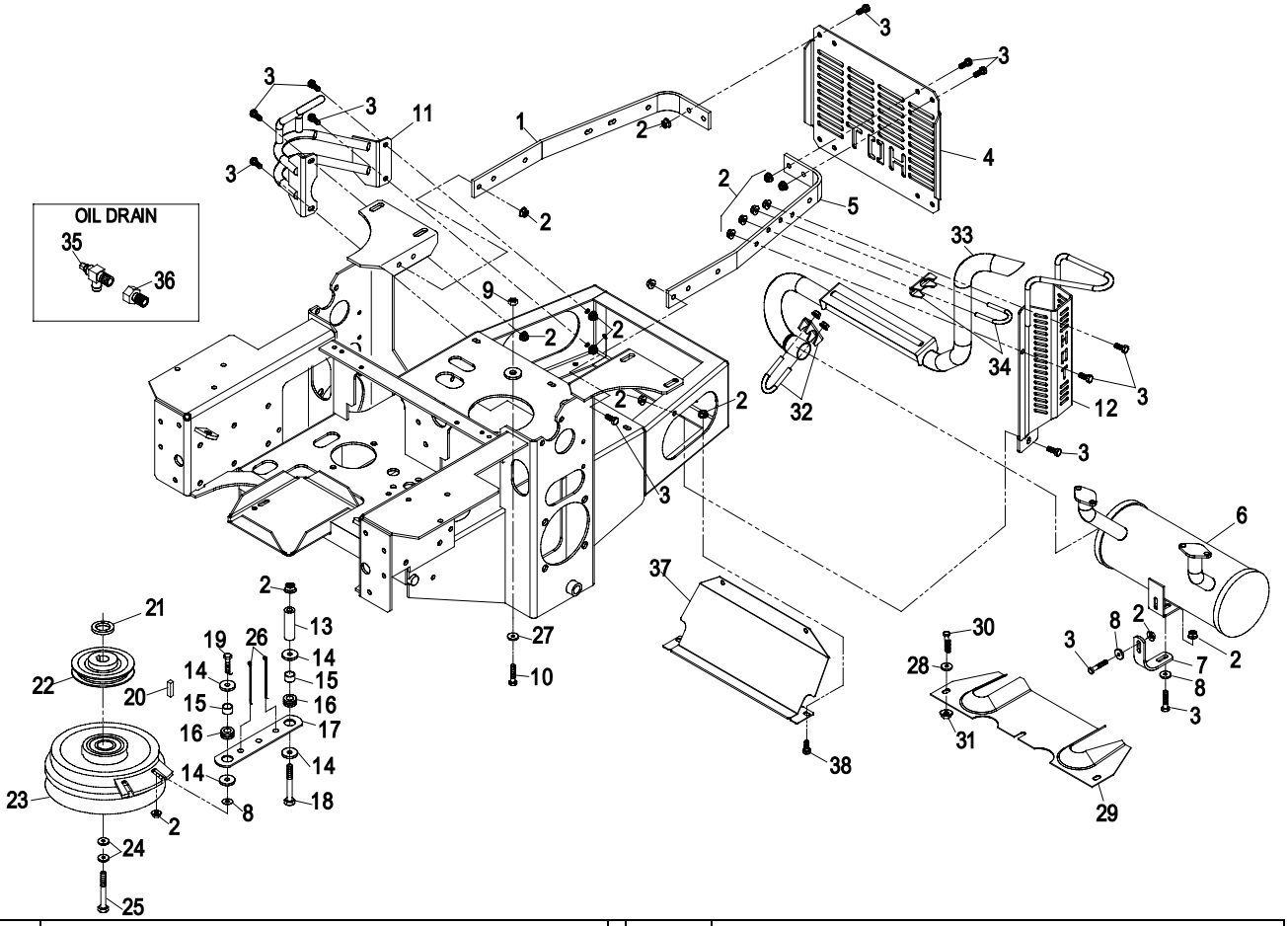
∇ Use only for operation below 32°F (0°C)

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

HYDRAULIC GROUP



KAWASAKI 17HP ENGINE GROUP



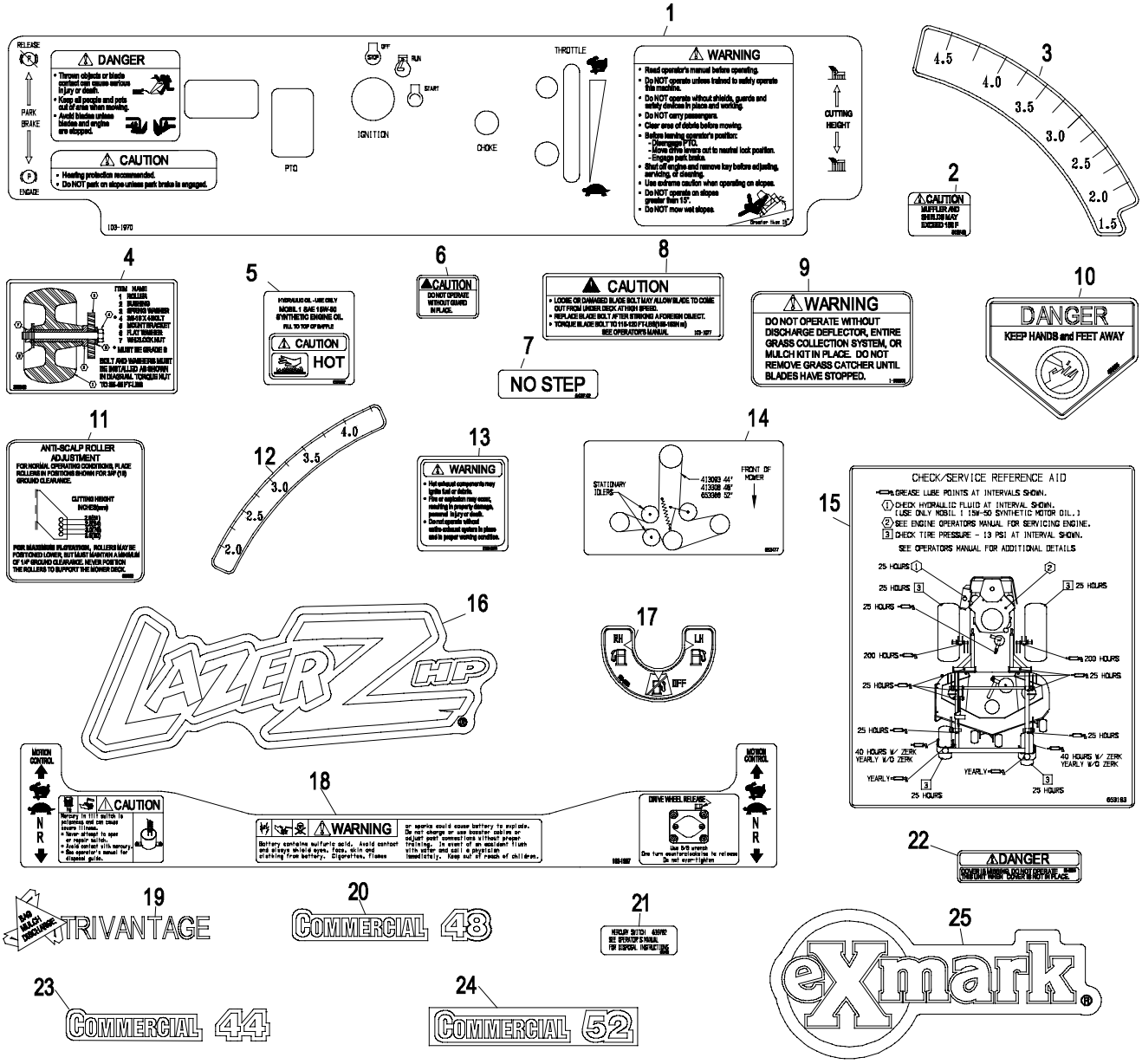
Ref. No.	Part No.	Description	Qty. Req'd.
1	103-3078-03	Strap wldmt, engine guard	1
2	32128-20	Nut, whizlock 5/16-18	25
3	322-3	Screw, 5/16-18x3/4	21
4	1-653095-03	Shield, eng. Guard	1
5	103-3164-03	Strap, engine guard	1
6	103-2745	Muffler, kit	1
7	1-653196	Bracket, muffler support	1
8	3256-3	Washer, 5/16 std flat	1
9	3296-29	Nut, nyloc 5/16-18	4
10	322-9	Screw, 5/16-18 x 1 3/4	4
11	103-2564-03	Guard,RH	1
12	103-2566-03	Guard,LH	1
13	103-2614	Bushing, seat mount	1
14	1-613235	Washer	4
15	1-633545	Spacer, grommet	2
16	1-633630	Grommet	2
17	1-633543-03	Strap, clutch/brake	1
18	322-22	Screw, 5/16-18 x 3 1/2	1
19	322-6	Screw, 5/16 NC x 1 1/4	1
20	1-807259	Key	1
21	103-2308	Spacer, crankshaft	1

Ref. No.	Part No.	Description	Qty. Req'd.
22	1-653035	Sheave, pump drive	1
23	103-0690	Clutch	1
	105-1670	Pigtail, clutch	1
	103-3012	Kit, brake pole module	1
24	1-603610	Washer, disc spring 7/16	2
25♦	3212-12	Screw, 7/16-20 x 3	1
26	1-303335	Plastic tie (large)	2
27	1-303334	Washer, spring disc	4
28	3256-23	Washer, 5/16 SAE flat	3
29	1-653565-03	Shield, heat	1
30	3230-1	Bolt, carriage 5/16-18 x 3/4	3
31	3296-29	Nut, nyloc 5/16-18	3
32	103-2630	Clamp,1.25	1
33	103-2599	Tailpipe	1
34	103-2631	Clamp,1.125	1
35▽	103-1965	Valve, oil drain	1
36	103-1966	Adapter, M20-2.5 / 3/8 NPT	1
37	103-2560-03	Deflector, lower frame	1
38	322-2	Screw, 5/16-18 x .625	2
39	1-653290	Gasket	2

▽ Use a Teflon Pipe Sealant or equivalent on threads of drain valve.

♦ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on clutch bolt.
Exmark black touch up spray paint – gloss black

DECAL GROUP



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-1970	Decal, Panel	1	14	1-653477	Decal, Belt Routing	1
2	1-513746	Decal, Muffler	2	15	1-653183	Decal, Check Service	1
3	1-653140	Decal, Deck Height	1	16	103-3142	Decal, LHP Model	1
4	1-323540	Decal, Roller Mounting	1	17	103-0262	Decal, Fuel Valve	1
5	1-523552	Decal, Hyd Tank/Hot Surface	1	18	103-1997	Decal, Top Console	1
6	1-513748	Decal, Guard	1	19	1-303520	Decal, Trivantage	1
7	1-513742	Decal, No Step	2	20	1-403131	Decal, Commercial 48	1
8	103-1077	Decal, Bolt Torque	2	21	1-643401	Decal, Mercury Switch	1
9	1-303508	Decal, Discharge Warning	1	22	98-5954	Decal, Missing Cover	2
10	1-403005	Decal, Danger	2	23	1-523417	Decal, Commercial 44	1
11	1-633922	Decal, Anti-Scalp	1	24	1-403132	Decal, Commercial 52	1
12	1-653147	Decal, Deck Height	1	25	103-2882	Decal, Exmark Logo	1
13	103-2644	Decal, Exhaust system	1		1-654520	Decal Kit	1

KOHLER & KAWASAKI 21-23HP ENGINE GROUP

Ref. No.	Part No.	Description	Qty. Req'd.
1	103-3078-03	Strap, engine guard	1
2	32128-20	Nut, whizlock 5/16-18 (44/48)	22
	32128-20	Nut, whizlock 5/16-18 (52)	22
3	322-3	Screw, 5/16-18x3/4 (44"&48")	20
	322-3	Screw, 5/16-18x¾ (52")	12
4	33114-020	Screw, HH M8-1.25 x 20	1
5	103-3164-03	Strap, engine guard	1
6	103-3426	Muffler, Kit (Koh)	1
7	1-805005	Washer, lock 5/16 heavy	1
8	3256-3	Washer, 5/16 std flat	1
9	3296-29	Nut, nyloc 5/16-18 (Kaw)	4
	32128-20	Nut, whizlock 5/16-18 (Koh)	4
10	322-9	Screw, 5/16-18 x 1 3/4	4
11	103-3218-03	Wld,tailpipe guard	1
12	103-3096	Spacer	1
13	103-2614	Bushing, seat mount	1
14	1-613235	Washer	4
15	1-633545	Spacer, grommet	2
16	1-633630	Grommet	2
17	1-633543-03	Strap, clutch/brake	1
18	322-22	Screw, 5/16-18 x 3 1/2	1
19	322-6	Screw, 5/16 NC x 1 1/4	1
20	1-807259	Key	1
21	103-2308	Spacer, crankshaft	1
22	1-653035	Sheave, pump drive	1
23	103-0690	Clutch	1
	105-1670	Pigtail, clutch	1
	103-3012	Kit, brake pole module	1
24	1-603610	Washer, disc spring 7/16	2
25♦	3212-12	Screw, 7/16-20 x 3 (Kaw)	1
♦	3212-10	Screw, 7/16-20 x 2 1/2(Koh)	1
26	1-303335	Plastic tie (large)	2
27	1-303334	Washer, spring disc	4
28	3256-23	Washer, 5/16 SAE flat(44"&48")	4
	3256-23	Washer, 5/16 SAE flat (52")	12
29	103-2740-03	Shield, heat(except 17hp Kaw)	1
30	33113-016	Screw, HH M6-1 x 16	2
31	33113-025	Screw, HH M6-1 x 25	1
32	103-3107-03	Counterweight, 60# (52")	1
33	322-7	Screw, Cap HH 5/16-18x1½(52")	8
34▽	103-1963	Valve, oil drain (Koh)	1
35▽	103-1965	Valve, oil drain (Kaw)	1
36	103-1966	Adapter, M20-2.5 / 3/8 NPT(Kaw)	1
37	103-2993-03	Bracket,muffler KA LH	1
38	103-2994-03	Bracket,muffler KA RH	1
39	1-653291	Gasket, (18-23 hp Koh)	2
40	103-3094-03	Deflector,air KC LH	1
41	103-3095-03	Deflector,air KC RH	1
42	103-2987-03	Bracket,muffler KC LH	1
43	103-2988-03	Bracket,muffler KC RH	1
44	33013-00	Nut,hex M6-1	2
45	33113-020	Screw,HH M6-1 x 20	2
46✳	1-805004	Washer,lock 1/4 hvy	4
▲	1-805004	Washer,lock 1/4 hvy	3
47	103-3219-03	Guard,rear LHP	1
48	103-3427	Muffler,kit 19-23 KA	1
49	103-3287-03	Guard,muffler LH 52	1
50	103-3288-03	Guard,muffler RH 52	1
51✳	3229-10	Screw,Carr 1/4-20x1/2	6
▲	3229-10	Screw,Carr 1/4-20x1/2	4
52✳	32128-33	Nut,flange 1/4-20	6
▲	32128-33	Nut,flange 1/4-20	4
53	1-653313	Gasket, (19-23 hp Kaw)	2

▽ Use a Teflon Pipe Sealant or equivalent on threads of drain valve.

♦ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on clutch bolt.
Exmark black touch up spray paint – gloss black

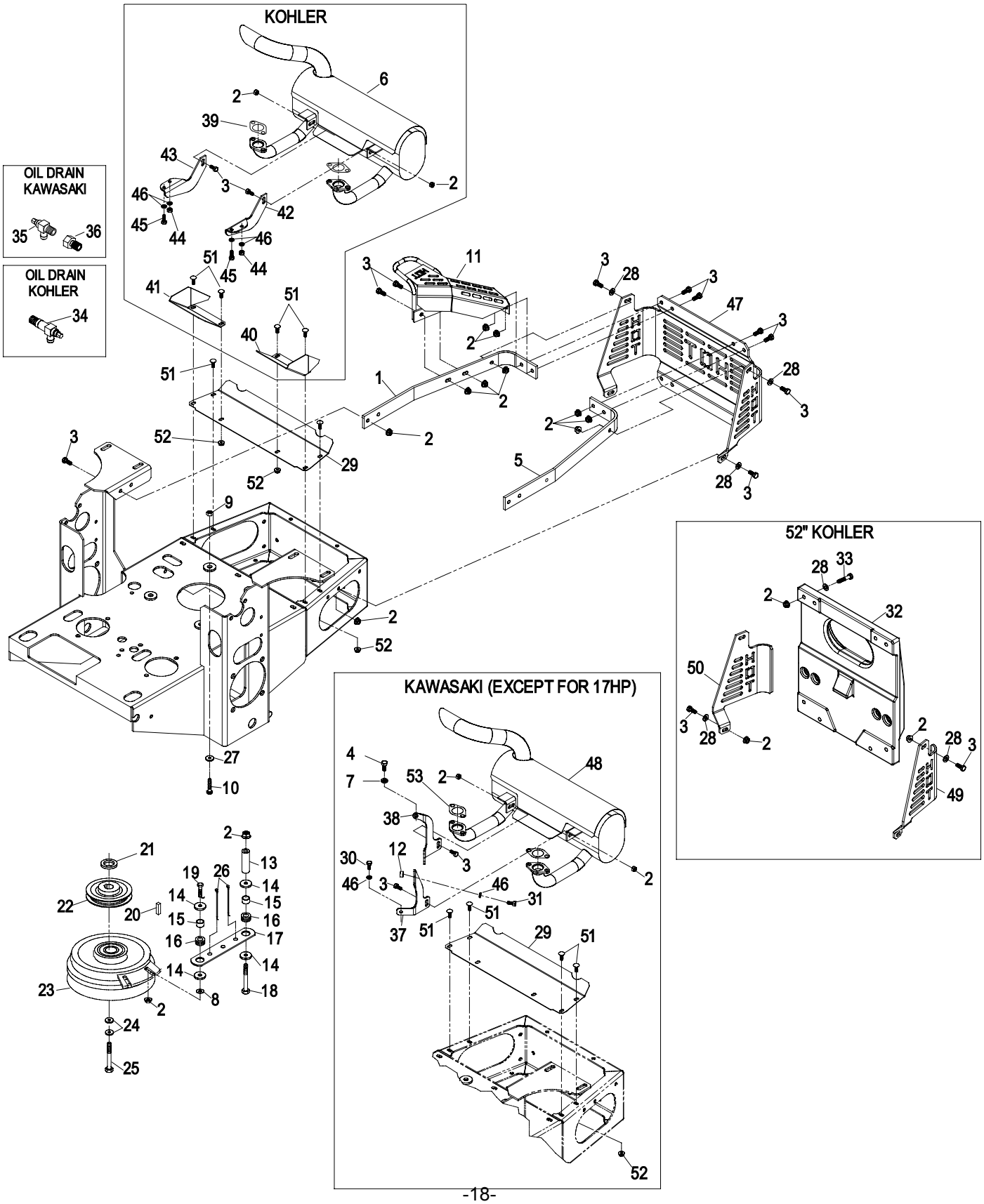
✳ Kohler units only

▲ Kawasaki 21-23HP units only

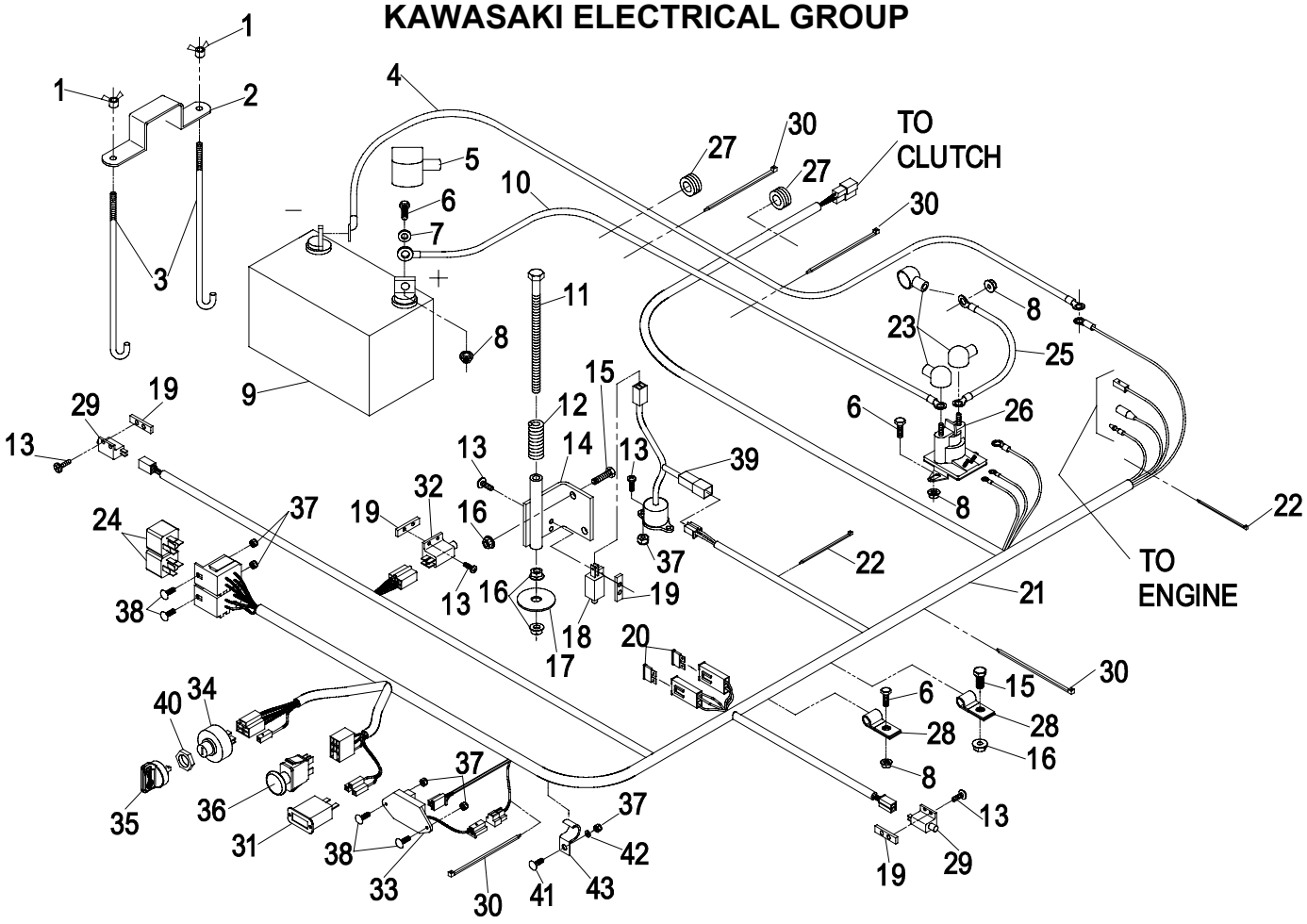
Kohler Replacement Parts List
(Refer to Engine Owner's Manual)
Air cleaner filter inner element 2508304-S
Air cleaner filter outer element 2508301-S

Kawasaki Replacement Parts List (except 17 hp)
(Refer to Engine Owner's Manual)
Air cleaner assembly 11010-7004
(Inner & outer elements)

KOHLER & KAWASAKI 21-23HP ENGINE GROUP



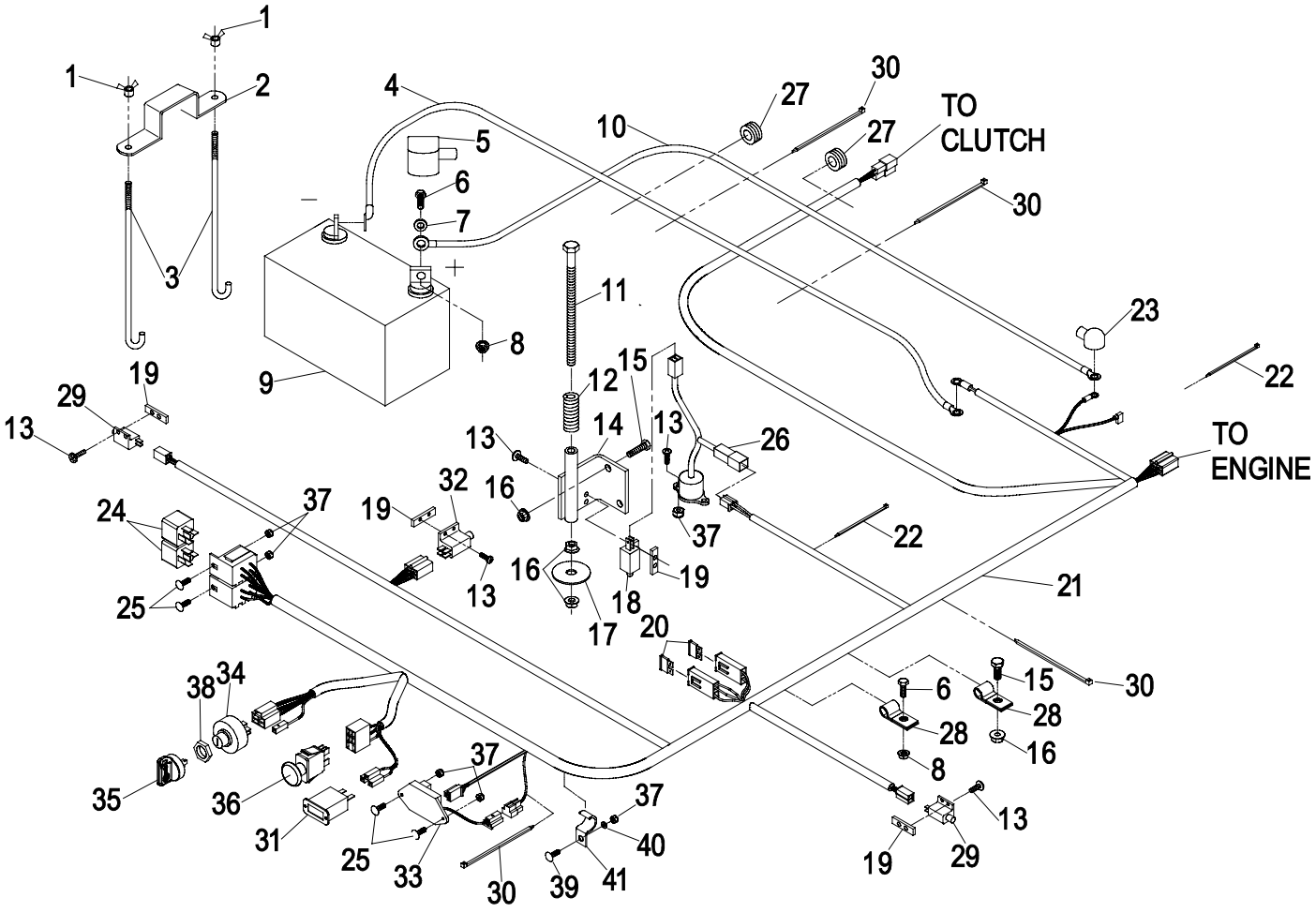
KAWASAKI ELECTRICAL GROUP



Ref. No.	Part No.	Description	Qty. Req'd.
1	1-543792	Wingnut, nyloc ¼-20	2
2	1-633652-03	Strap, battery holdown	1
3	1-633651	Bolt, battery holdown	2
4	103-0705	Cable, ground (-)	1
5	1-543391	Insulator, battery	1
6	321-4	Screw, ¼-20 x 3/4	5
7	3256-2	Washer, ¼ flat	2
8	32128-33	Nut, ¼-20 whizlock	6
9	103-0293	Battery, 12V	1
10	103-0707	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	3
16	32128-20	Nut, whizlock 5/16-18	5
17	1-653036	Washer	1
18	1-513152	Switch, seat	1
19	1-633181	Plate	4
20	1-816001	Fuse-20 amp	2
21♦	103-0623	Harness, wiring	1
22	1-303287	Plastic tie, small	3
23	1-543393	Insulator, solenoid (+)	3
24	1-643275	Relay, 12 V	2
25	1-633306	Cable, starter (+)	1
26	1-513075	Switch, 12V solenoid	1
27	1-543286	Grommet	2
28	1-633396	Clip, loom 5/8	2
29	1-513051	Switch, drive lever N.C.	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	100-6186	Module, seat delay	1
34	103-0206	Switch, ignition w/keys	1
35	103-2106	Key, Exmark logo	1
	1-603511	Key, ignition	1
36	1-633673	Switch, blade	1
37	3296-2	Nut, nyloc #10-20	7
38	1-807513	Carriage Bolt, #10-24 x ½	4
39	1-633782	Switch, Tilt	1
40	103-0498	Nut, Ignition	1
41	1-807533	Bolt, carriage 10-24x5/8	1
42	3256-14	Washer, #10 flat	1
43	103-1193	Clip, loom half	1

♦Use dielectric grease on all wiring harness connectors.

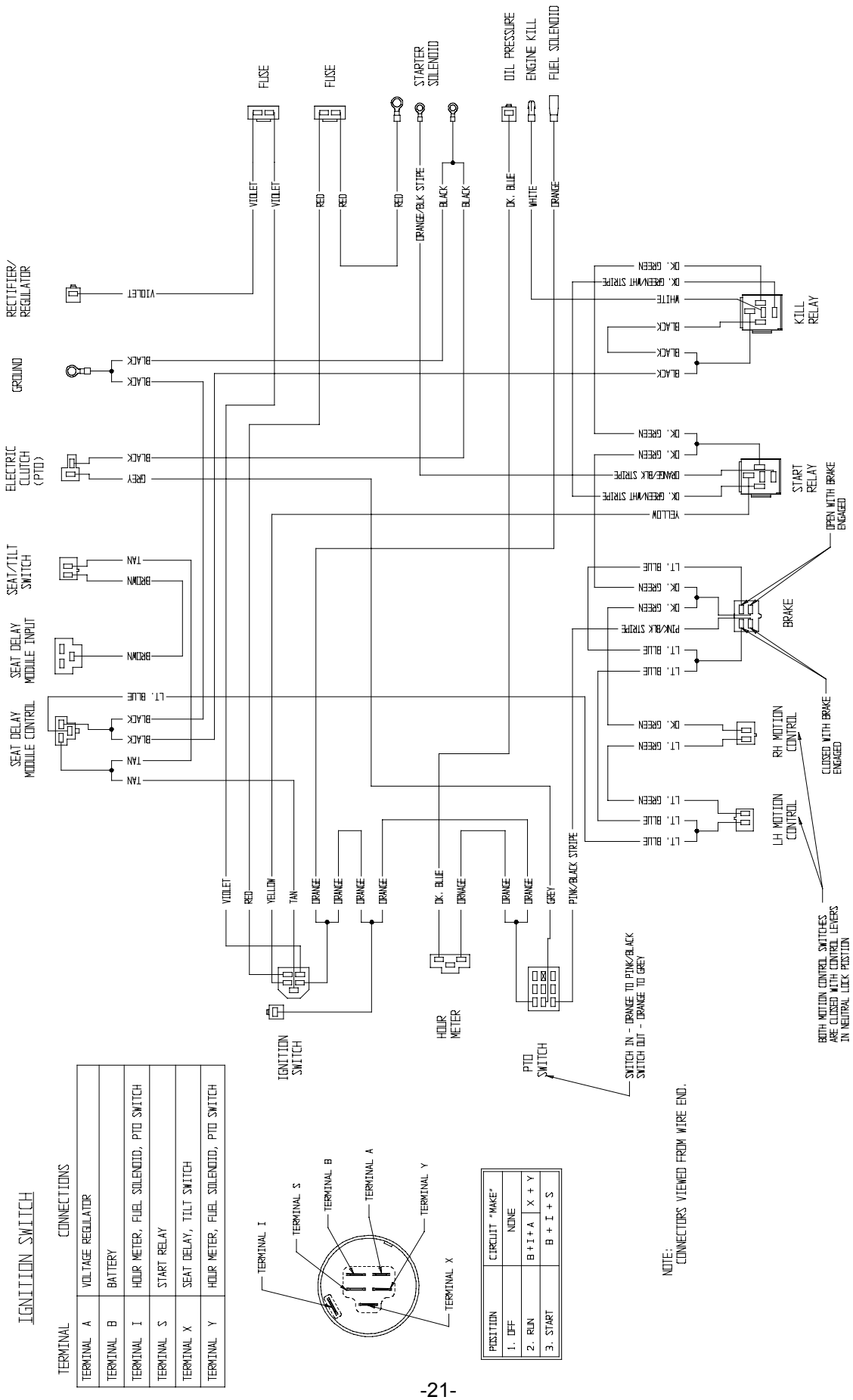
KOHLER ELECTRICAL GROUP



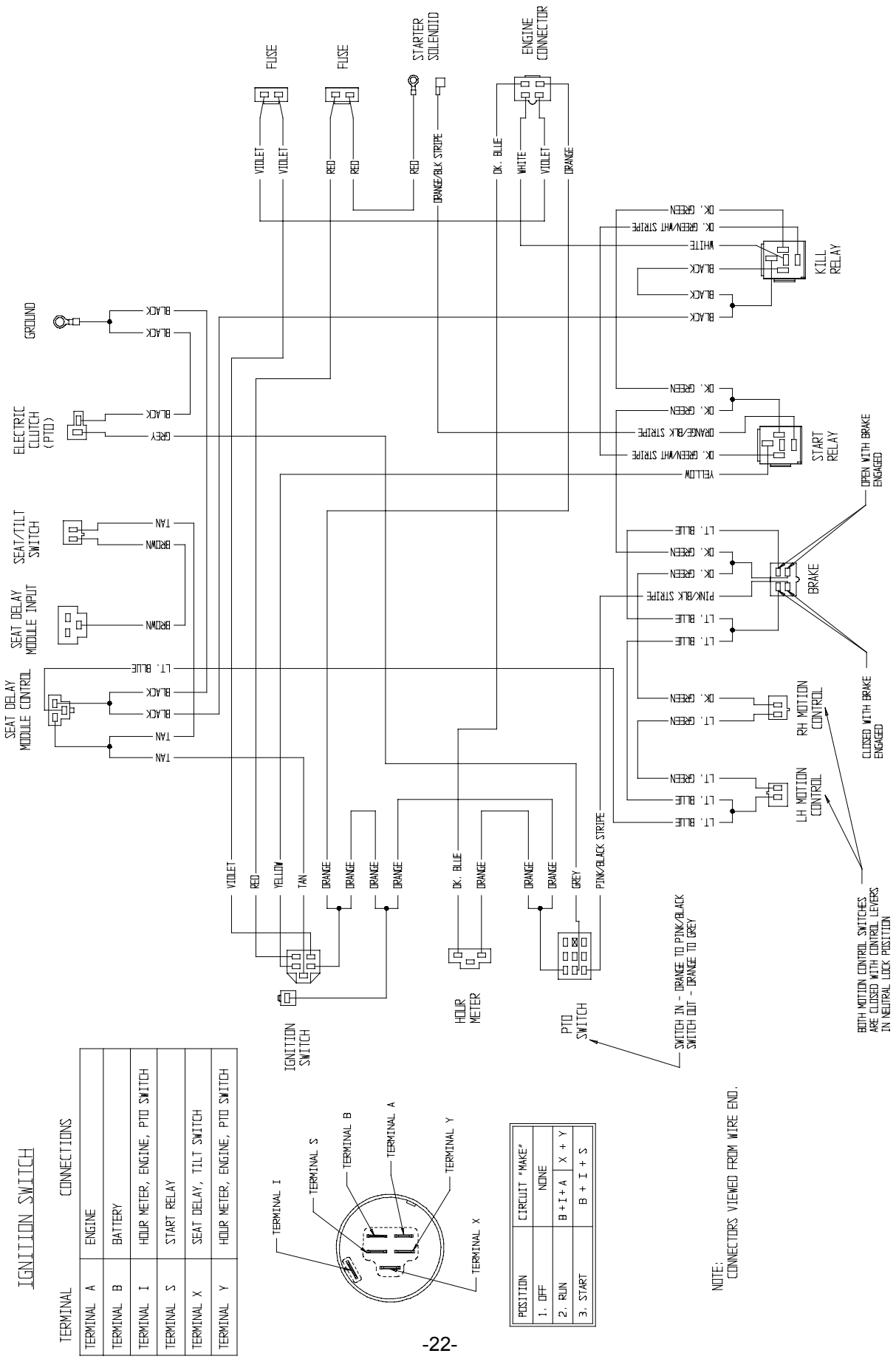
Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	1-543792	Wingnut, nyloc ¼-20	2	22	1-303287	Plastic tie, small	2
2	1-633652-03	Strap, battery holdown	1	23	1-543393	Insulator, solenoid (+)	1
3	1-633651	Bolt, battery holdown	2	24	1-643275	Relay, 12 V	2
4	103-0705	Cable, ground (-)	1	25	1-807513	Carriage Bolt, #10-24 x ½	4
5	1-543391	Insulator, battery	1	26	1-633782	Switch, Tilt	1
6	321-4	Screw, ¼-20 x 3/4	3	27	1-543286	Grommet	2
7	3256-2	Washer, ¼ flat	2	28	1-633396	Clip, loom 5/8	2
8	32128-33	Nut, ¼-20 whizlock	3	29	1-513051	Switch, drive lever N.C.	2
9	103-0293	Battery, 12V	1	30	1-303335	Plastic tie, large	4
10	1-523281	Cable, battery (+)	1	31	1-513374	Meter, engine hours	1
11	1-800282	Screw, 5/16-18 x 7	1	32	1-633111	Switch, brake N.O./N.C.	1
12	1-523415	Spring, seat switch	1	33	100-6186	Module, seat delay	1
13	3290-500	Screw, #10-24 x 5/8	10	34	103-0206	Switch, ignition w/keys	1
14	1-652072-03	Bracket wldmt, seat switch	1	35	103-2106	Key, Exmark logo	1
15	322-3	Screw, 5/16-18 x 3/4	3		1-603511	Key, ignition	1
16	32128-20	Nut, whizlock 5/16-18	5	36	1-633673	Switch, blade	1
17	1-653036	Washer	1	37	3296-2	Nut, nyloc #10-20	7
18	1-513152	Switch, seat	1	38	103-0498	Nut, Ignition	1
19	1-633181	Plate	4	39	1-807533	Bolt, carriage 10-24x5/8	1
20	1-816001	Fuse-20 amp	2	40	3256-14	Washer, #10 flat	1
21♦	103-0595	Harness, wiring	1	41	103-1193	Clip, loom half	1

♦Use dielectric grease on all wiring harness connectors.

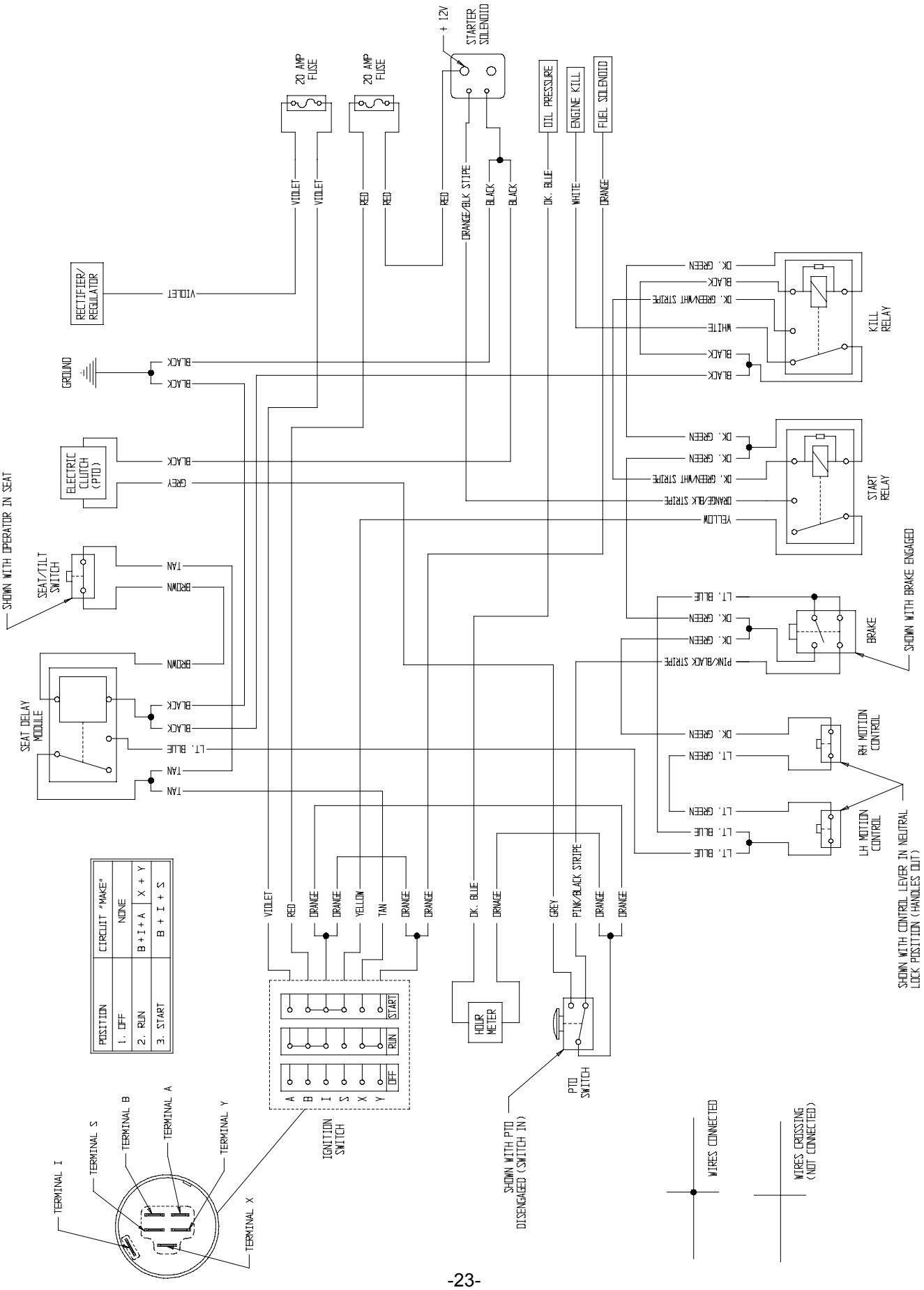
KAWASAKI ELECTRICAL DIAGRAM



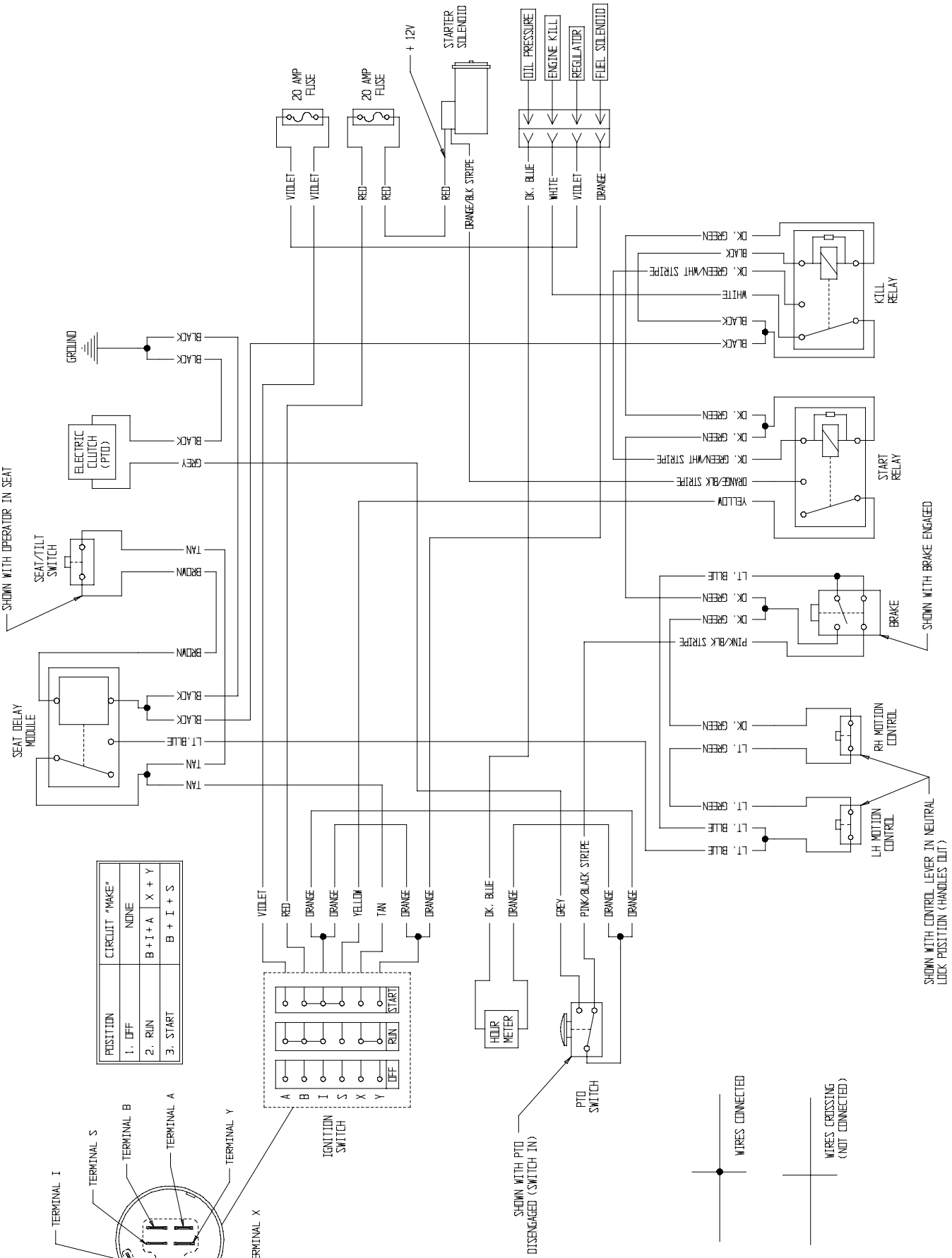
KOHLER ELECTRICAL DIAGRAM



KAWASAKI ELECTRICAL LOGIC SCHEMATIC



KOHLER ELECTRICAL LOGIC SCHEMATIC



SERVICE RECORD

Date	Description of Work Done	Service Done By

NOTES

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