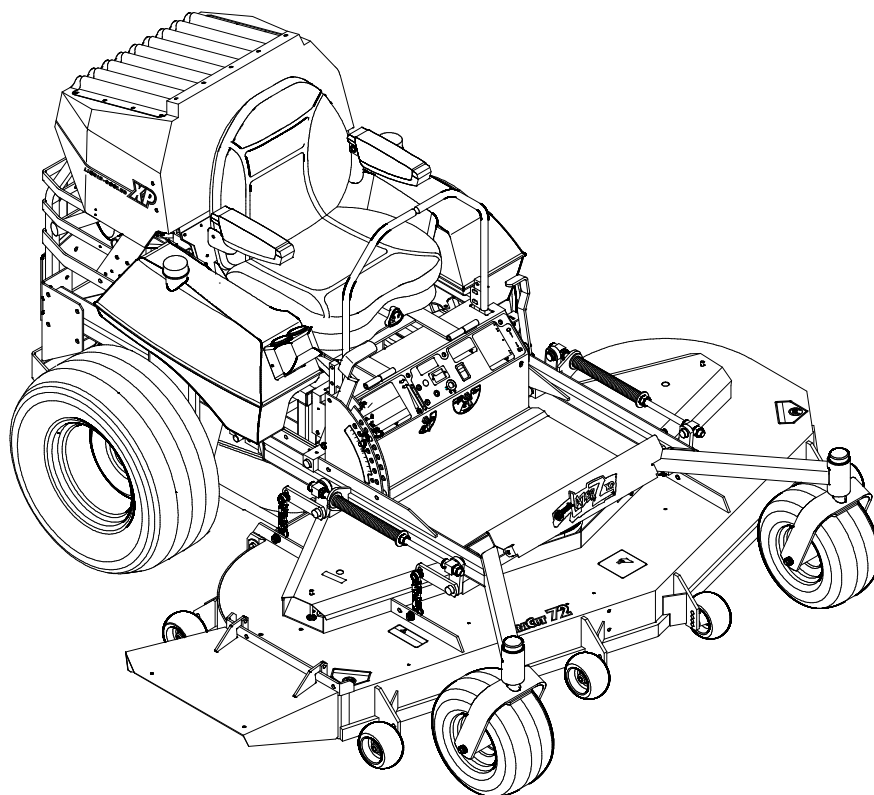


For Serial
260,000 & Higher



PARTS MANUAL

LAZER Z[®] XP

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.

Model No. _____

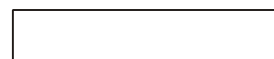
Serial No. _____

Engine Model No. _____

Engine Serial No. _____

Date Purchased _____

Paste Label From
Literature Packet Here



EXMARK PARTS PLUS[®] PROGRAM

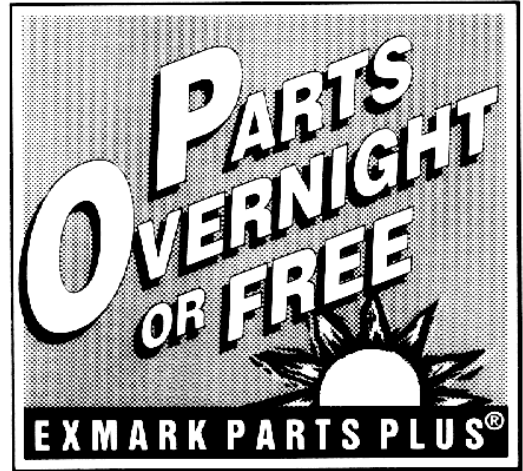
EFFECTIVE DATE: September 1, 1995

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 3:00p.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 48 contiguous United States. UPS has initiated a Saturday delivery program to many areas of the continental United States and can be requested for an overnight shipment on Friday to be delivered Saturday. The next day air charge, plus the Saturday delivery fee will be the responsibility of the purchaser. Exmark Mfg. will assume no responsibility for Saturday delivery shipments. To qualify, all Exmark Parts Plus[®] orders must be received by Exmark by 3:00 p.m., central time. Orders must be six (6) line items or less. Exclusions from the Exmark Parts Plus[®] Program are: Any wholegood or accessory in its entirety, engines and engine replacement parts, 5-speed Peerless transmissions and 5-speed transaxles, hydraulic or hydrostatic wheel motors, cutter decks and engine decks or any item exceeding United Parcel Service size and weight restrictions.

Due to UPS restrictions, aerosol spray paint is considered a hazardous material and cannot be shipped via UPS next day or Second Day Air.

Exmark Manufacturing stocks a limited supply of parts for transaxles, pumps and wheel motors. These parts can be ordered for Next Day Air shipment but will not be guaranteed per the Parts Plus Program

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

TABLE OF CONTENTS

<u>Description</u>	<u>Page</u>
60" Deck Group.....	3-4
72" Deck Group.....	5-6
Decal Group.....	21-22
Electrical Diagram 27 HP Diahatsu Diesel	25
Electrical Group 27 HP Diahatsu Diesel.....	23-24
Electrical Logic Schematic 27 HP Diahatsu Diesel.....	26
Electrical Diagram 31 HP Diahatsu Gas.....	29
Electrical Group 31 HP Diahatsu Gas	27-28
Electrical Logic Schematic 31 HP Diahatsu Gas	30
Engine Cooling Group	17-18
Engine Deck Group.....	13-14
Front Frame Group	7-8
Fuel Group.....	10-11
Hydraulic Group	19-20
Main Frame Group.....	9
Motion Control Levers	31
Park Brake Group	12
Upper Frame Group	15-16

60" DECK GROUP

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-1423-01	Deck wldmt, 60	1	42	1-633447	Chain	4
	103-1589	Deck wldmt, 60 w/decals	1	43	1-800811	Screw, 7/16-14 x 1-1/2	8
2	1-634619	Housing w/ring, spacer, brg 3		44	1-513435	Washer, 1/2 disc spring.....	4
3	3256-24	Washer, 3/8 SAE	3	45	3217-11	Nut, 5/8-11 hex	2
4	1-513208	Washer, disc Spring	4	46	322-6	Screw, 5/16-18 x 1 1/4.....	1
5	1-303334	Washer, 5/16 disc spring	1	47*	103-1140	Cutter housing complete	3
6	32128-20	Nut, 5/16-18 whizlock	6	48	103-1355-01	Strut wldmt, deck	2
7	1-602913-01	Baffle wldmt, discharge.....	1	49	1-323533	Spacer shv/brg	4
8	322-2	Screw, 5/16-18 x 5/8.....	3	50	1-633029	Spherical rod end	2
9	1-603299	Roller, antiscalp	6	51	327-28	Screw, 5/8-11 x 5 1/2.....	2
10	3290-357	Nut, 3/8-16 whizlock	8	52	3253-8	Lockwasher, 5/8 reg.spring ...	2
11	1-373034	Washer, pivot.....	8	53	302-19	Zerk, 1/4-28 straight	4
12	1-603602	Bushing, roller	6	54	1-632199-01	Pin wldmt, deck strut.....	2
13	98-5975	Washer, 3/8 disc spring	13	55	3219-6	Nut, 5/8-18 hex	6
14	98-5961	Screw, 3/8-16 x 4 gr 8.....	6	56	3257-32	Key, # 61 Woodruff.....	3
15	103-1469-01	Chute, discharge 60"	1	57★	1-633701	Sheave, Blade drive.	3
16	322-5	Screw, 5/16-18 x 1	4	58★	1-513016	Bearing	8
17	3296-29	Nut, 5/16-18 nyloc.....	4	59	1-323532	Housing, bearing	3
18	1-633084-01	Shield, belt 60" (RH)	1	60	1-323528	Spacer, bearing	4
	103-1470-01	Shield, belt 60" (LH)	1	61	1-633573	Guard, brg bottom	4
19	1-323385	Knob, belt shield	6	62	32120-8	Snap Ring	4
20	1-322110	Belt guide wldmt	1	63	103-0584	Spindle.....	3
21	103-0862	Screw, 5/8-11 x 2 3/4 gr 8...3		64	1-633483	Blade, notched air foil	3
22	323-11	Screw, 3/8-16 x 2 1/4.....	2		1-613250	Blade, solid air foil	3
23	1-303537	Stud, belt shield	2		1-613111	Blade, low lift	3
24	3256-3	Washer 5/16 std flat.....	6	◆	1-613112	Blade, mulching	3
25	1-323417	Washer, rubber	2		103-1580	Blade, bahia	3
26	1-633151	Spring, extension	1	65	103-1356	Strut wldmt S/A	2
27	1-632119-01	Arm wldmt, deck idler	1	66	103-0280	Housing, Jackshaft	1
28	1-513034	Bearing, pivot.....	2	67★	103-0924	Sheave, Jackshaft Triple	1
29	1-634244	Arm wldmt/brg sub-assy	1	68	103-0926	Jackshaft	1
30	1-603044	Bushing, idler pivot.....	1	69	103-0929	Jackshaft Assy	1
31	302-40	Zerk, 1/4-20 90°	1	70	103-1588	Complete Deck Assy	1
32	3256-4	Washer, 3/8 std flat.....	3	71	323-6	Screw, 3/8-16 x 1	2
33	3296-39	Nut, 3/8-16 nylock	19	72	103-1192	Asm, Jackshaft housing w/brgs	1
34	323-13	Screw, 3/8-16 x 2 3/4.....	1	73	103-1515-01	Weight Bar	1
35	1-633109	Idler pulley 6.00 dia flat	2	74	103-1522-01	Weight Bar wldmt.....	1
36	3234-11	Bolt, 3/8-16 x 1 whizlock	1	75	325-4	Screw, 1/2-13 x 1	4
37	1-633456	Bushing, Idler.....	2	76	103-0865	Washer, Heavy blade bolt	3
38	323-8	Screw, 3/8-16 x 1 1/2	18	77	103-1331	Guard, bearing top	3
39	32128-37	Nut, 7/16-14 whizlock.....	16	78	323-7	Screw, 3/8-16 x 1-1/4	2
40	1-603805	Idler pulley 5.06 O.D. V	1	79	103-3445-01	Guard, Jackshaft Belt.....	1
41	1-633127	Belt, blade drive 60" deck	1				

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

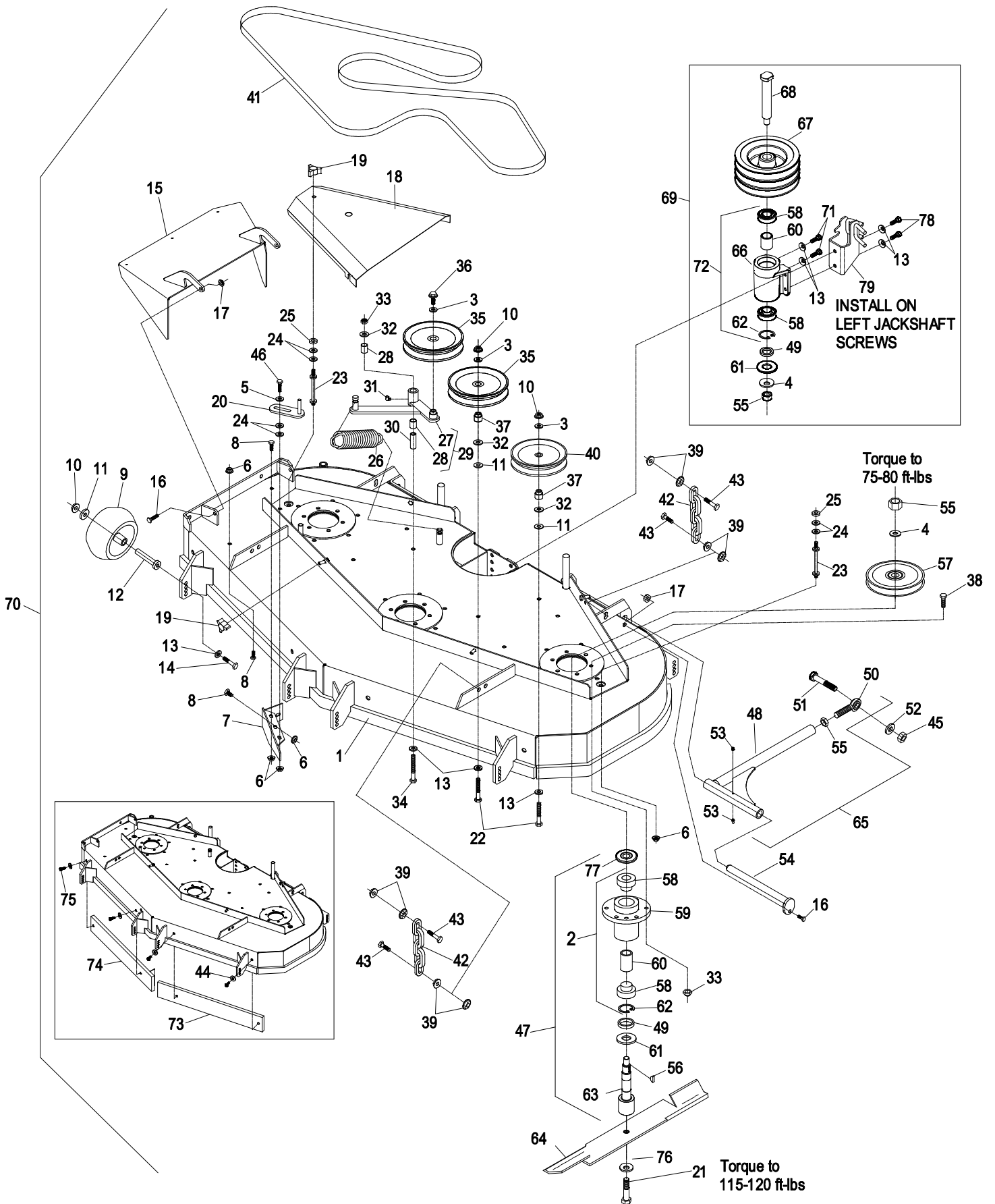
- ★ Apply Mobil HTS grease (or a food-grade antisieze) in the following locations. DO NOT use a copper or nickel based antisieze.

- between the jackshaft & bearings and jackshaft & sheaves.
- between the cutter housing spindle & bearings and spindle & sheaves.

- * Cutter housing complete includes sheave, washer, nut, blade bolt & disc spring washer.

- ◆ Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK604

60" DECK GROUP



72" DECK GROUP

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-0996-01	Deck wldmt, 72	1	39	32128-37	Nut, 7/16-14 whizlock	16
	103-1591	Deck wldmt, 72 w/decals	1	40	1-603805	Idler pulley 5.06 O.D. V	1
2	1-634619	Housing w/ring, spacer, brg 3		41	1-643052	Belt, blade drive 72" deck	1
3	3256-24	Washer, 3/8 SAE	3	42	1-633447	Chain	4
4	1-513208	Washer, disc Spring	4	43	1-800811	Screw, 7/16-14 x 1-1/2	8
5	1-303334	Washer, 5/16 disc spring	1	44	323-6	Screw, 3/8-16 x 1	2
6	32128-20	Nut, 5/16-18 whizlock	9	45	3217-11	Nut, 5/8-11 hex	2
7	1-602913-01	Baffle wldmt, discharge	1	46	103-1192	Asm, Jackshaft housing w/brgs	1
8	322-2	Screw, 5/16-18 x 5/8	6	47*	1-644092	Cutter housing complete	3
9	1-603299	Roller, antiscalp	6	48	103-0100-01	Strut wldmt, deck	2
10	3290-357	Nut, 3/8-16 whizlock	8	49	1-323533	Spacer shv/brg	4
11	1-373034	Washer, pivot	8	50	1-633029	Spherical rod end	2
12	1-603602	Bushing, roller	6	51	327-28	Screw, 5/8-11 x 5 1/2	2
13	98-5975	Washer, 3/8 disc spring	13	52	3253-8	Lockwasher, 5/8 reg. spring ...	2
14	98-5961	Screw, 3/8-16 x 4 gr 8	6	53	302-19	Zerk, 1/4-28 straight	4
15	1-642071-01	Chute, discharge 72"	1	54	1-632199-01	Pin wldmt, deck strut	2
16	322-5	Screw, 5/16-18 x 1	5	55	3219-6	Nut, 5/8-18 hex	6
17	3296-29	Nut, 5/16-18 nylock	4	56	3257-32	Key, # 61 Woodruff	3
18	1-643076-01	Shield, belt 72" (RH)	1	57★	1-643269	Sheave, Blade drive.	3
	1-643075-01	Shield, belt 72" (LH)	1	58★	1-513016	Bearing	8
19	1-323385	Knob, belt shield	6	59	1-323532	Housing, bearing	3
20	1-322110	Belt guide wldmt	1	60	1-323528	Spacer, bearing	4
21	103-0862	Screw, 5/8-11 x 2 3/4 gr 8 ...	3	61	1-633573	Guard, brg bottom	4
22	323-11	Screw, 3/8-16 x 2 1/4	2	62	32120-8	Snap Ring	4
23	1-303537	Stud, belt shield	2	63	103-0584	Spindle	3
24	3256-3	Washer 5/16 std flat	4	64	1-643006	Blade, notched air foil	3
25	1-323417	Washer, rubber	2		1-643429	Blade, solid air foil	3
26	1-633151	Spring, extension	1		1-643428	Blade, low lift	3
27	1-632119-01	Arm wldmt, deck idler	1	◆	1-643097	Blade, mulching	3
28	1-513034	Bearing, pivot	2		103-1581	Blade, bahia	3
29	1-634244	Arm wldmt/brg sub-assy	1	65	103-0840	Strut wldmt S/A	2
30	1-603044	Bushing, idler pivot	1	66	103-0280	Housing, Jackshaft	1
31	302-40	Zerk, 1/4-20 90°	1	67★	103-0924	Sheave, Jackshaft Triple	1
32	3256-4	Washer, 3/8 std flat	3	68	103-0926	Jackshaft	1
33	3296-39	Nut, 3/8-16 nylock	19	69	103-0929	Jackshaft Assy	1
34	323-13	Screw, 3/8-16 x 2 3/4	1	70	103-1590	Complete Deck Assy	1
35	1-633109	Idler pulley 6.00 dia flat	2	71	103-0865	Washer, Heavy blade bolt	3
36	3234-11	Bolt, 3/8-16 x 1 whizlock	1	72	103-1331	Guard, bearing top	3
37	1-633456	Bushing, Idler	2	73	323-7	Screw, 3/8-16 x 1-1/4	2
38	323-8	Screw, 3/8-16 x 1 1/2	18	74	103-3445-01	Guard, Jackshaft Belt	1

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

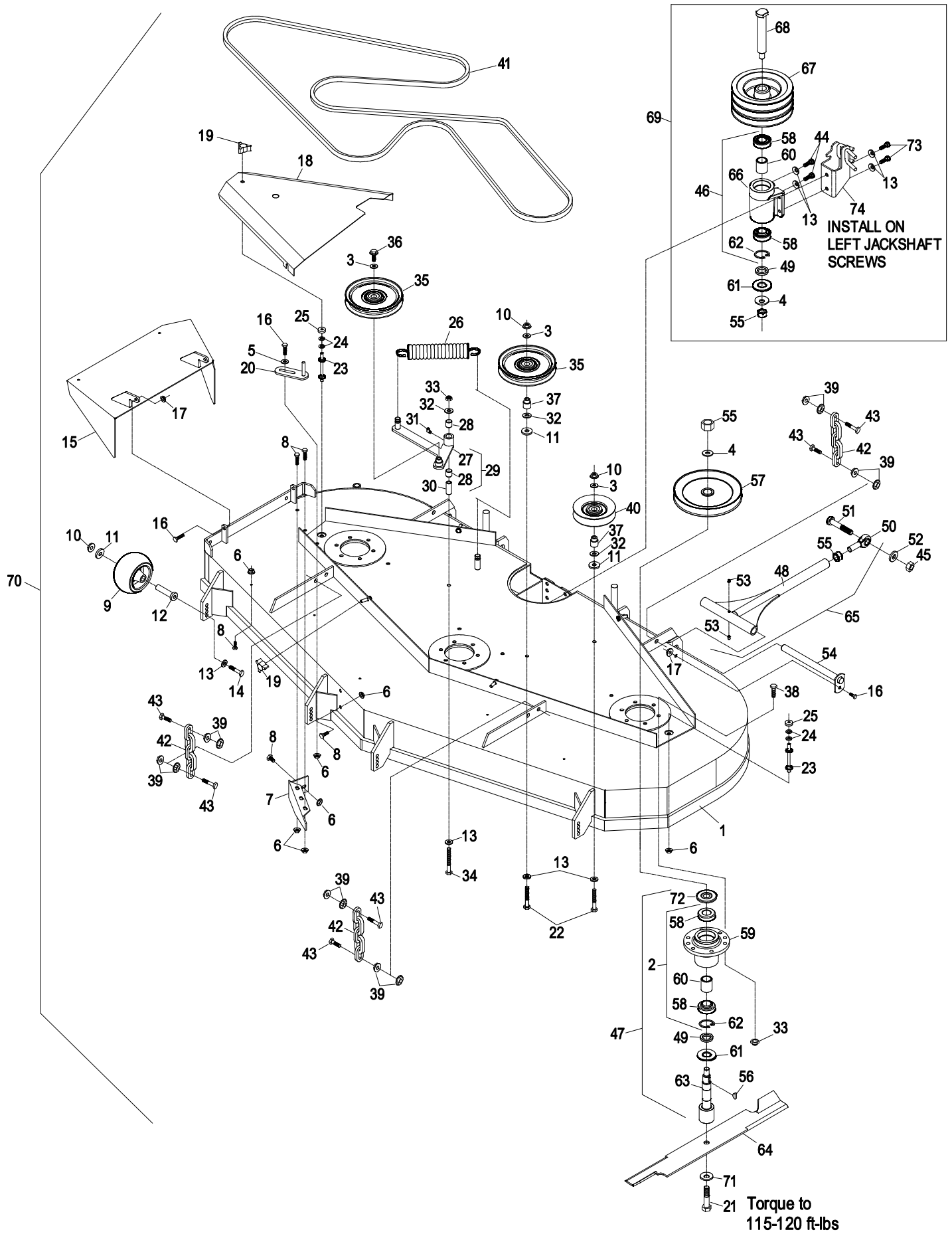
- ★ Apply Mobil HTS grease (or a food-grade antisieze) in the following locations. DO NOT use a copper or nickel based antisieze.

-between the jackshaft & bearings and jackshaft & sheaves.
-between the cutter housing spindle & bearings and spindle & sheaves.

- * Cutter housing complete includes sheave, washer, nut, blade bolt & disc spring washer.

- ◆ Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK724

72" DECK GROUP

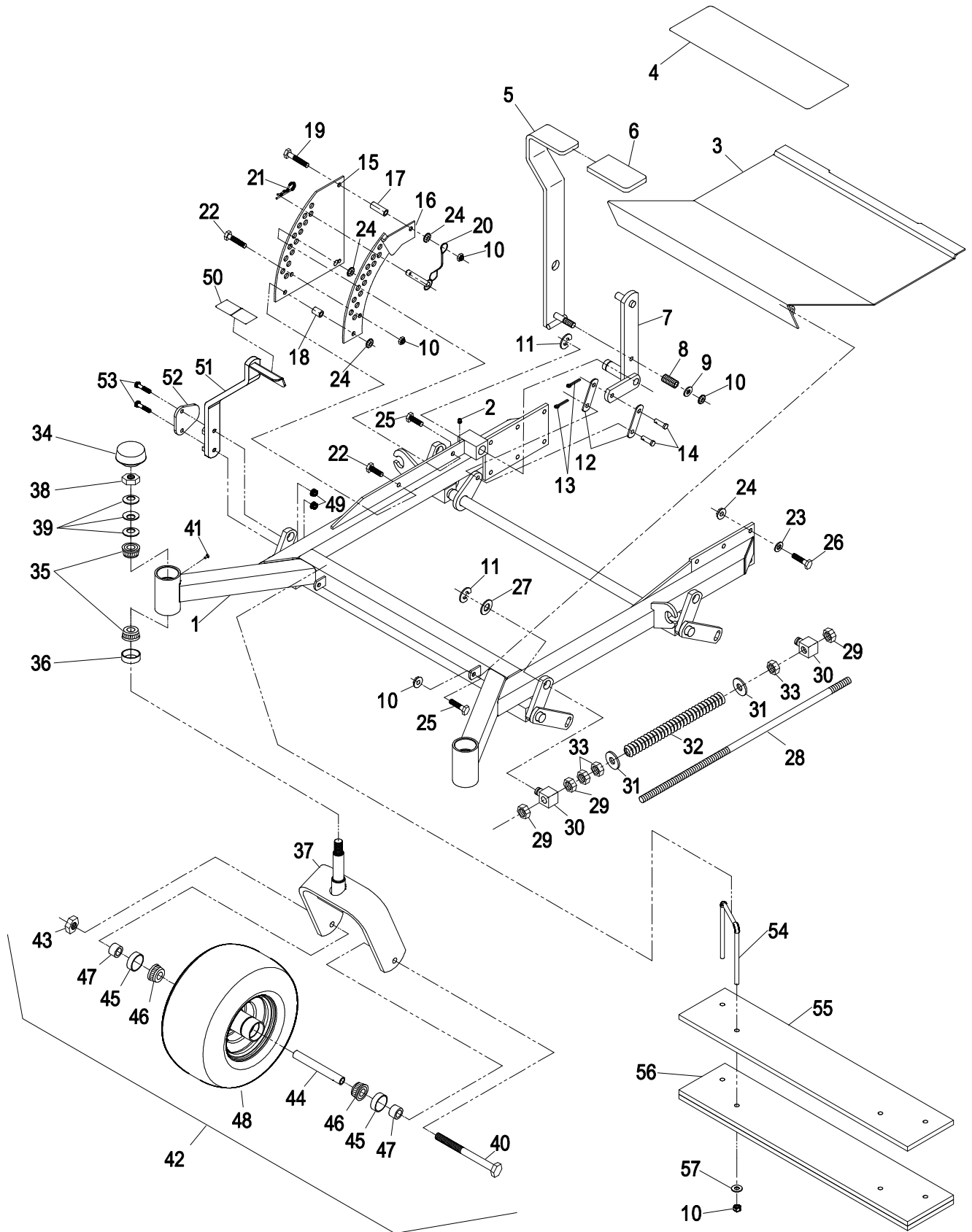


FRONT FRAME GROUP

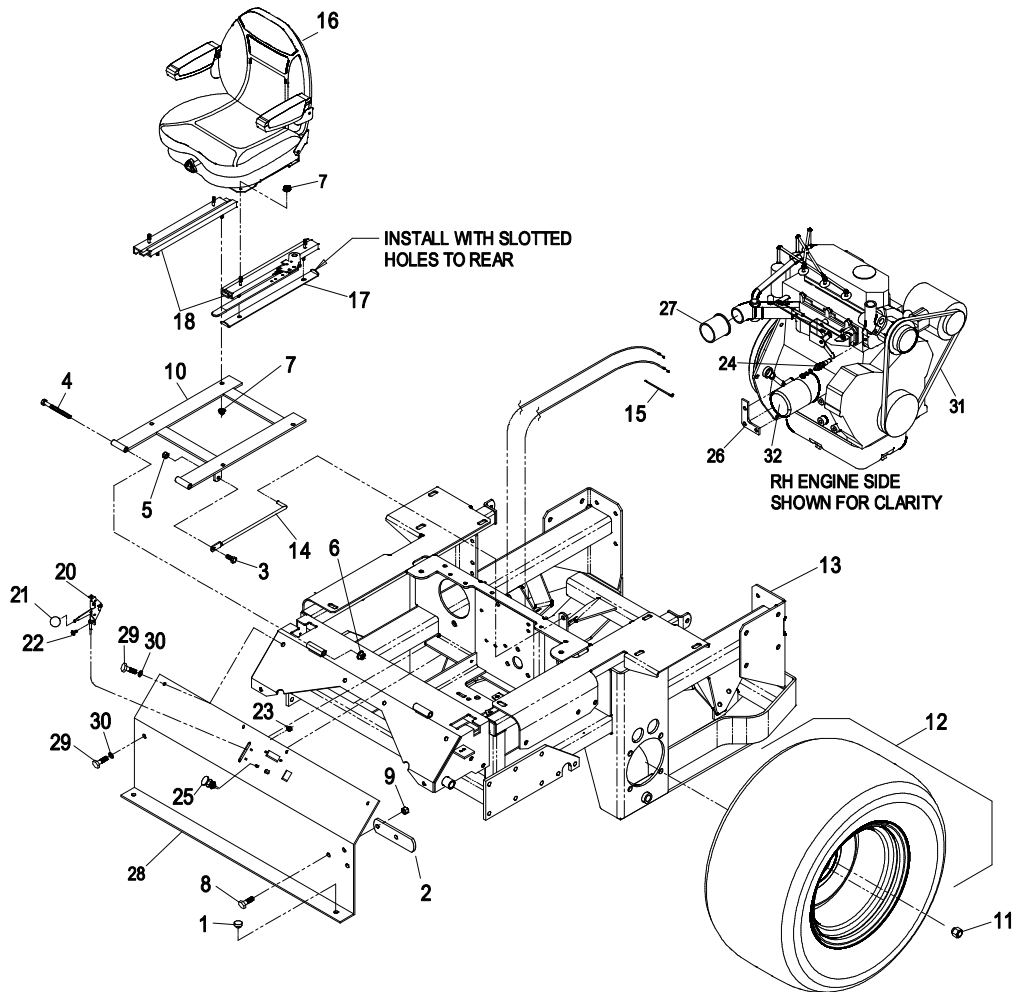
Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-1438-01	Frame wldmt, front 60"	1	31	3256-7	Washer, 5/8 std flat.....	4
	1-642046-01	Frame wldmt, front 72".....	1	32	1-643015	Spring, deck support.....	2
2	302-19	Zerk, 1/4-28 straight	5	33	3218-6	Jam nut, 5/8-11	6
3	103-1490-01	Floorpan	1	34	1-543513	Cap, grease	2
4	1-633553	Pad, anti skid	3	35	1-543509	Bearing cone, tapered roller	4
5	1-634312	Lever w/grip	1		1-543508	Bearing cup, tapered roller.	4
	1-632324-03	Lever wldmt, lift	1	36	1-543511	Seal, grease.....	2
6	1-633295	Grip, lift lever	1	37	103-1474-01	Caster wldmt.....	2
7	103-1500-03	Arm wldmt, deck lift	1	38	3296-51	Nut, 3/4-10 nyloc.....	2
8	1-633325	Spring, compression.....	1	39	1-633508	Washer, spring disk.....	6
9	3256-24	Washer, 3/8 SAE flat.....	1	40	325-39	Screw, 1/2-13x9 1/2	2
10	3296-39	Nut, nylock 3/8-16.....	9	41	1-811010	Plug	2
11	32151-103	E-ring	5	42	103-0069	Caster wheel assy	2
12	1-633068	Arm, deck lift.....	2	43	3296-23	Nut, 1/2-13 nyloc.....	2
13	3272-10	Cotter pin, 1/8 x 3/4	2	44	1-633959	Spacer, front caster	2
14	1-808284	Clevis pin, 3/8 x 1	2	45	103-0063	Seal, bearing.....	4
15	1-633889-01	Plate, deck lift.....	1	46	1-633585	Bearing cone.....	4
16	1-632899-01	Plate wldmt, deck lift.....	1	47	1-633581	Spacer, bearing.....	4
17	1-633082	Bushing, lift lever	1	48	103-0065	Wheel & tire assy	2
18	1-633080	Bushing, lift lever	1		1-523009	Tire, 13x6.5-6 4 ply	2
19	323-13	Screw, 3/8-16 x 2 3/4.....	1		103-0071	Wheel.....	2
20	1-633097	Hitch pin w/lanyard	1		1-633584	Bearing cup.....	4
21	1-806005	Hairpin cotter (serv only) ...	1	49	32128-20	Nut, whizlock 5/16-18.....	2
22	323-9	Screw, 3/8-16 x 1 3/4.....	2	50	1-543161	Pad, pedal.....	2
23	98-5975	Washer, 3/8 disc spring.....	12	51	103-0147-01	Lever wldmt, deck lift	1
24	3290-357	Nut, whizlock 3/8-16	15	52	1-643220-01	Strap	1
25	323-6	Screw, 3/8-16 x 1.....	3	53	322-7	Screw, 5/16-18x1 1/2	2
26	323-7	Screw, 3/8-16X1 1/4	12	54	103-0221	U-bolt	2
27	3256-29	Washer, 7/8 SAE flat.....	4	55	100-2333-01	Weight Bar (60")	1
28	1-633096	Rod, deck lift.....	2		103-0885-01	Weight Bar (72")	1
29	3217-11	Nut, 5/8-11 regular.....	6	56	99-4646-01	Weight Bar Assy (60" only) .	1
30	1-633441	Swivel, deck mount.....	4	57	3256-4	Washer, flat Std 3/8	4

Exmark red touch up spray paint - P/N 850337

FRONT FRAME GROUP



MAIN FRAME GROUP



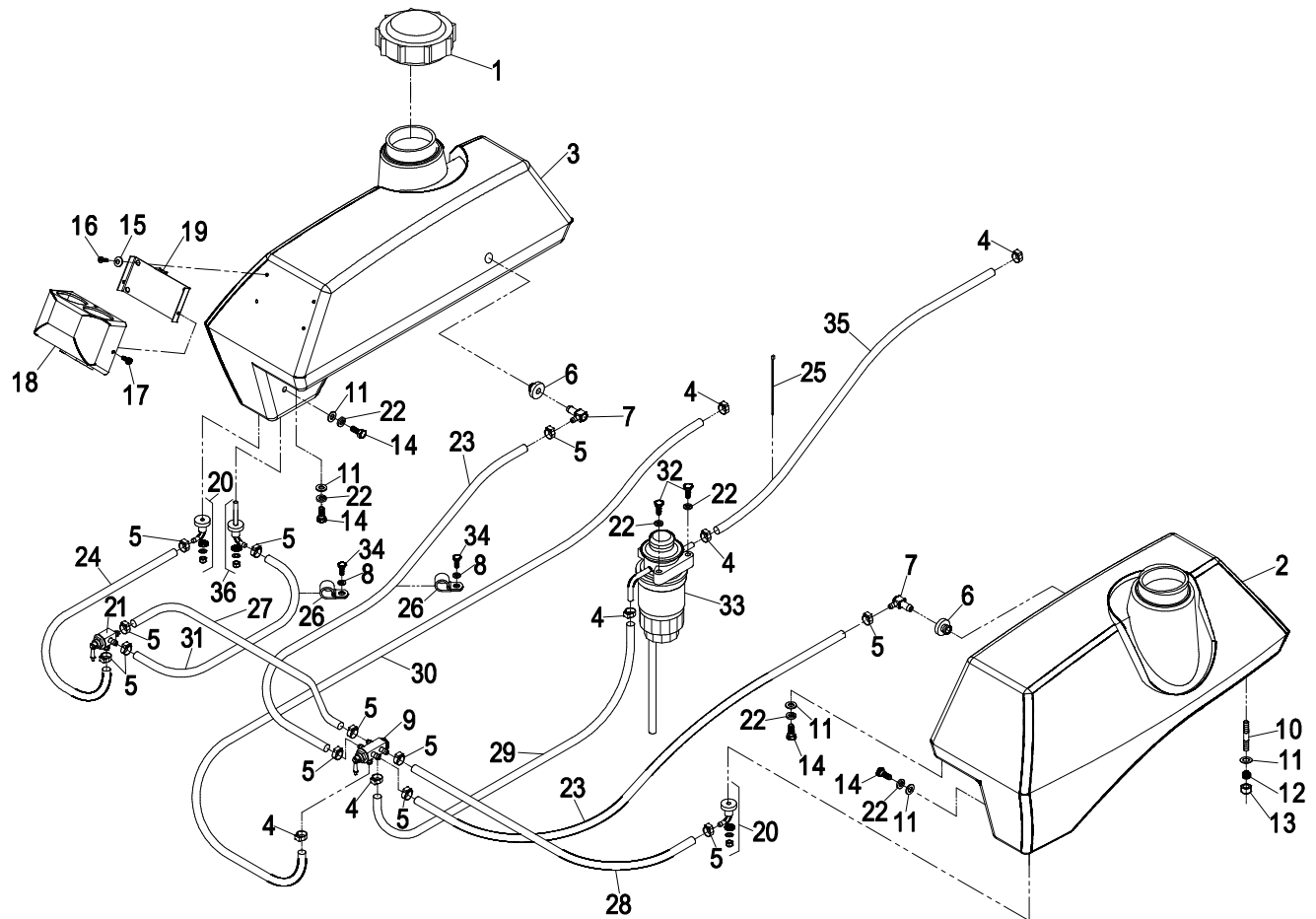
Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	1-513658	Bumper	2		1-631846	Kit, Damper w/hardware.....	1
2	1-633964-03	Stop, Park Brake.....	1		1-631847	Kit, Rollers,bumprs&hrdwre ..	1
3	322-5	Screw, 5/16-18 x 1.....	1		1-631848	Kit, Spring,Cable & hardware	1
4	323-39	Screw, 3/8-16 x 5.....	2		1-631849	Kit, Knob,Shaft & hardware...	1
5	3296-29	Nut, nyloc 5/16-18.....	1		1-643281	Switch, Seat	1
6	3296-39	Nut, nyloc 3/8-16.....	2	17	1-633872-03	Stop, seat	2
7	32128-20	Nut, whizlock 5/16-18	8	18	1-643255	Track, seat.....	1
8	323-6	Screw, 3/8-16 x 1.....	2	19	103-0888	Engine, Diesel.....	1
9	3290-357	Nut, whizlock 3/8-16	2		103-0889	Engine, Gas	1
10	1-632187-03	Frame, seat mount.....	1	20	103-1450	Cable, throttle	1
11	242-50	Nut, wheel 1/2-20	8	21	1-513592	Ball, (red) throttle cable	1
12	103-2743	Wheel/tire assy.	2	22	1-807513	Screw, carr #10-24	1
	103-2744	Tire, 24x12-12 4 ply	2	23	3296-2	Nut, nylock #10-24.....	2
	1-633992	Wheel	2	24▽	103-0949	Sender, temperature 1/8 NPT	1
13	103-0073-03	Frame, engine deck	1	25	103-1449	Cable, choke (gas)	1
14	103-1408	Rod, seat hold-up	1	26	103-1409-03	Spacer, rear engine RH (gas)	1
15	1-303335	Tie, Plastic (large).....	1	27	103-1451	Bushing, intake manifold (gas)	1
16	1-643280	Seat, suspension	1	28	103-1354-03	Front console.....	1
	1-631845	Kit, Pan w/seat & back	1	29	322-3	Screw, 5/16-18 x 3/4	6
	1-631844	Kit, Armrest Assy.....	1	30	3256-23	Washer, 5/16 SAE	6
	1-631843	Kit, Boot, upper & lower wire.	1	31	Briggs & Stratton P/N 820271	Engine V-belt	1
	1-631842	Kit, Armrest Pad w/hardware.	1	32✕	Briggs & Stratton P/N 820314	Oil Filter.....	1
				Note: Do Not Use Briggs & Stratton 491056			

Exmark black touch up spray paint – gloss black

✕ Refer to Engine Owner's Manual.

▽ Use Teflon pipe sealant on pipe threads on temperature sending unit.

27 HP DIESEL FUEL GROUP



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-2108	Cap, diesel fuel tank.....	2	20★	103-2615	Fitting, fuel bulkhead	2
2	103-2625	Tank, fuel (LH)	1		103-2784	O-ring.....	1
3	103-2623	Tank, fuel w/ reserve (RH) .	1	21	103-1379	Valve, fuel reserve.....	1
4▲	1-643277	Clamp, .31 I.D. fuel hose....	6	22	1-805005	Washer, lock 5/16	6
5▲	1-643293	Clamp, .25 I.D. fuel hose....	12	23	1-633348	Hose, fuel .25 x 36.25	2
6	1-513645	Bushing, fuel valve	2	24	1-543456	Hose, fuel .25 x 22.0	1
7	1-643172	Elbow, 90°	2	25	1-303335	Plastic Tie	1
8	1-805004	Washer, lock 1/4	2	26	1-513762	Clip, loom .50.....	2
9	1-643234	Valve, fuel dual flow	1	27	1-303306	Hose, fuel .25 x 10.5	1
10◆	1-633023	Stud, fuel tank	6	28	1-303472	Hose, fuel .25 x 19.0	1
11	3256-23	Washer, flat SAE 5/16	10	29	103-1335	Hose, fuel .31 x 16.0	1
12	1-633349	Spring, fuel tank	6	30	103-1428	Hose, fuel .31 x 47.0	1
13	3296-47	Nut, thin nyloc 5/16-18	6	31	1-543526	Hose, fuel .25 x 24.0	1
14	322-3	Screw, 5/16-18 x 3/4	4	32	33114-020	Screw, M8-1.25 x 20mm ...	2
15	1-303435	Washer, disc spring 1/4	4	33✧	Briggs & Stratton P/N 820311 fuel filter		1
16▽	3290-500	Screw, Machine 10-24x5/8. .	4	34	321-3	Screw, 1/4-20 x 5/8.....	2
17	1-802002	Screw, thr. cut 10-32x1/2 ...	3	35	103-1693	Hose, fuel .31 x 41"	1
18	1-643013	Cover, gauge.....	1	36★	103-2616	Fitting, fuel bulkhead long.....	1
19	1-643014-03	Bracket, gauge mount	1		103-2784	O-ring.....	1

◆ Use Prolock, Retaining type (Part No. 1-840023), .5cc tube on stud threads going into the tank.

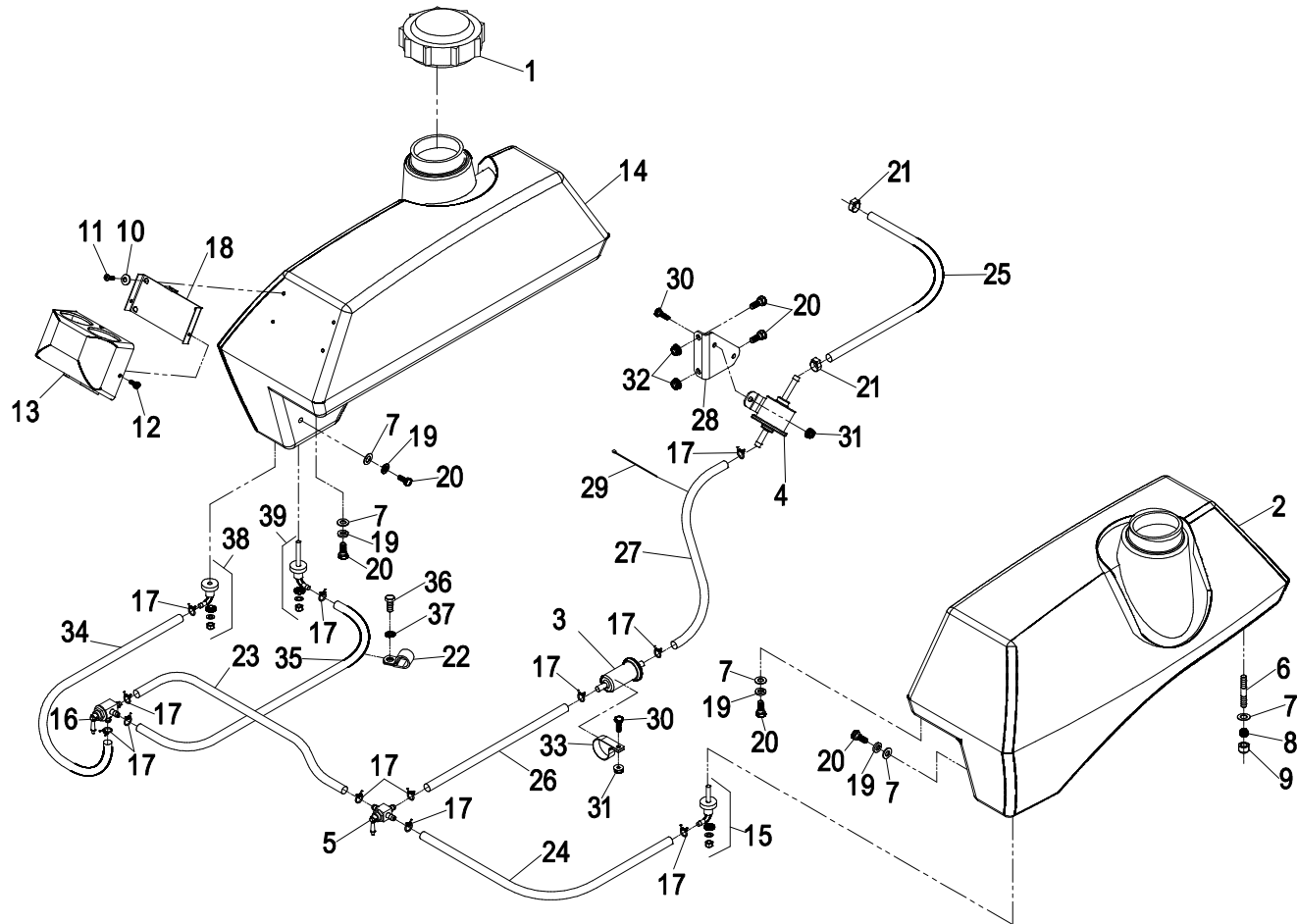
✧ Refer to Engine Owner's Manual.

▽ Snug fit only on slotted holes, **Do Not Overtighten**, tank must be able to expand.

▲ Clamps require special pliers P/N 1-643394 (Oetiker P/N 14100118 or Kohler P/N 2445505) for installation.

★ Use Prolock, Nut type (Part No. 1-840022), .5 ml tube on fuel fitting.

31 HP GAS FUEL GROUP



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-2107	Cap, fuel tank.....	2	21▲	1-643293	Clamp, .25 I.D. fuel hose ..	2
2	103-2618	Asm, tank fuel (LH).....	1	22	1-513762	Clip, Loom .50	1
3✕	Briggs & Stratton	fuel filter P/N 498688	1	23	1-303306	Hose, fuel .25 x 10.5	1
4✕	Briggs & Stratton	fuel filter P/N 498688	1	24	1-303472	Hose, fuel .25 x 19.0	1
5	1-633347	Valve, fuel	1	25	1-303022	Hose, fuel .25 x 8.5	1
6♦	1-633023	Stud, fuel tank	6	26	1-513581	Hose, fuel .25 x 18.0	1
7	3256-23	Washer, 5/16 SAE	10	27	103-1419	Hose, fuel .25 x 32.0	1
8	1-633349	Spring, fuel tank	6	28	103-1240-03	Angle, fuel pump mtg	1
9	3296-47	Nut, thin nyloc 5/16-18	6	29	1-303335	Plastic tie	1
10	1-303435	Washer, disc spring 1/4	4	30	321-4	Screw, 1/4-20 x 3/4.....	3
11▽	3290-500	Screw, Machine 10-24x5/8	4	31	32128-33	Nut, whizlock 1/4-20	3
12	1-802002	Screw, thd. cut 10-32x1/2 .	3	32	32128-20	Nut, whizlock 5/16-18	2
13	1-643013	Cover, guages.....	1	33	103-1435	Clip, loom 1.69.....	1
14	103-2624	Asm, tank fuel w/ reserve (RH)...	1	34	1-543456	Hose, fuel .25 x 22.0	1
15★	103-2605	Fitting, fuel bulkhead w/strainer .	1	35	1-543526	Hose, fuel .25 x 24.0	1
	103-2784	O-ring	1	36	321-3	Screw, 1/4-20 x 5/8.....	1
16	103-1379	Valve, fuel reserve	1	37	1-805004	Washer, lock 1/4	1
17	1-303077	Clamp, fuel line	12	38★	103-2615	Fitting, fuel bulkhead	1
18	1-643014-03	Bracket, guage mount.	1		103-2784	O-ring	1
19	1-805005	Washer, disc spring 5/16. ..	4	39★	103-2616	Fitting, fuel bulkhead long	1
20	322-3	Screw, 5/16-18 x 3/4.....	6		103-2784	O-ring	1

♦ Use Prolock, Retaining type (Part No. 1-840023), .5cc tube on stud threads going into the tank.

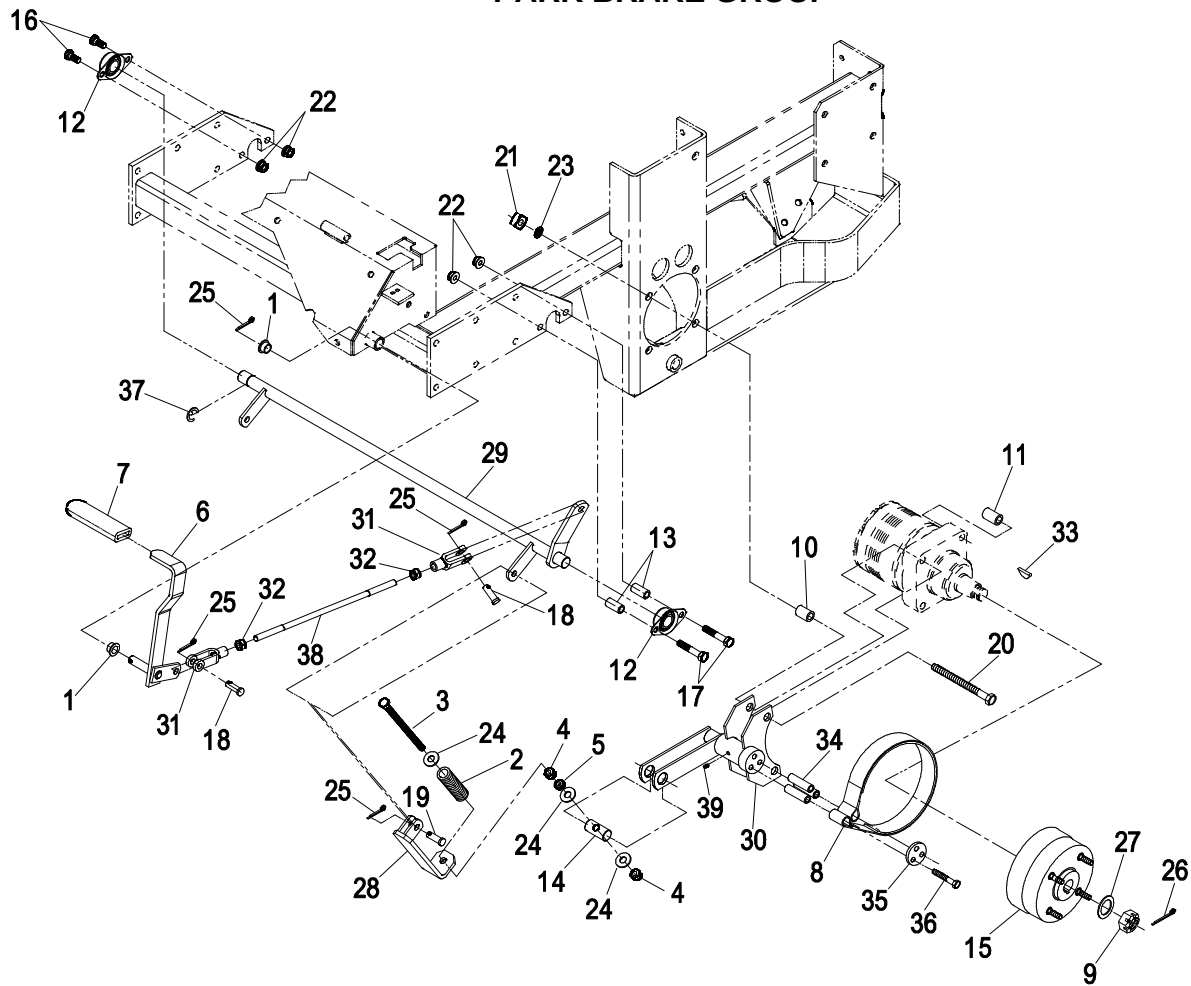
▽ Snug fit only on slotted holes, **Do Not Overtighten**, tank must be able to expand.

✕ Refer to Engine Owner's Manual.

▲ Clamps require special pliers P/N 1-643394 (Oetiker P/N 14100118 or Kohler P/N 2445505) for installation.

★ Use Prolock, Nut type (Part No. 1-840022), .5 ml tube on fuel fitting.

PARK BRAKE GROUP



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	1-513140	Bushing	2	20	325-17	Screw, 1/2-13 x 4 (60")	8
2	1-633454	Spring, brake rod	2		325-20	Screw, 1/2-13 x 6 (72")	8
3	323-58	Bolt, Tap 3/8-16 x 6	2	21	103-0131	Nut, sq reg 1/2-13 UNC-2B	8
4	3296-39	Nut, nyloc 3/8-16	4	22	3290-357	Nut, whizlock 3/8-16	4
5	3218-3	Nut, Jam 3/8-16	2	23	3253-7	Washer, lock 1/2	8
6	103-0197	Lever w/grip	1	24	3256-4	Washer, 3/8 std	6
	103-0201-03	Lever, brake	1	25	3272-10	Pin, cotter 1/8 x 3/4	5
7	1-633268	Grip, brake lever	1	26	1-806800	Pin, cotter 9/64 x 1 1/2	2
8	103-0355	Band, Brake	2	27	1-523157	Washer, spacer	2
9	1-809036	Nut, slotted 1.00-20	2	28	103-1117-03	Lower brake linkage	2
10	1-633380	Spacer (short)(60")	4	29	103-0198-03	Brake shaft	1
	1-633060	Spacer (short)(72")	4	30	103-0810-03	Bracket, brake (72")	2
11	1-633382	Spacer (long)(60")	4		103-0844-03	Bracket, brake (60")	2
	1-633062	Spacer (long)(72")	4	31	1-633131	Yoke	2
12	1-633102	Bearing, flange	2	32	3219-3	Nut, 3/8-24	2
13	103-0051	Spacer, brake retainer	2	33	3257-42	Woodruff key, 5/16 x 1	2
14	1-633144	Pin, trunion	2	34	103-0384	Spacer	6
15	103-0590	Hub & drum w/studs, wheel	2	35	103-0374	Retainer, Brake Band	2
♦	1-633926	Studs, wheel	8	36	322-9	Screw, HH .312-18x1.75	6
16	323-4	Screw, 3/8-16 x 3/4	2	37	32151-48	E-Ring, retaining	1
17	323-10	Screw, 3/8-16 x 2	2	38	103-1708	Rod, brake	1
18	1-808285	Pin, clevis 3/8 x 1 1/8	2	39	1481	Zerk, 1/4-28 45° (60")	2
19	1-808284	Pin, clevis 3/8 x 1	2		302-19	Zerk, 1/4-28 straight (72") ..	2

- ♦ Not Illustrated
Exmark black touch up spray paint - gloss black

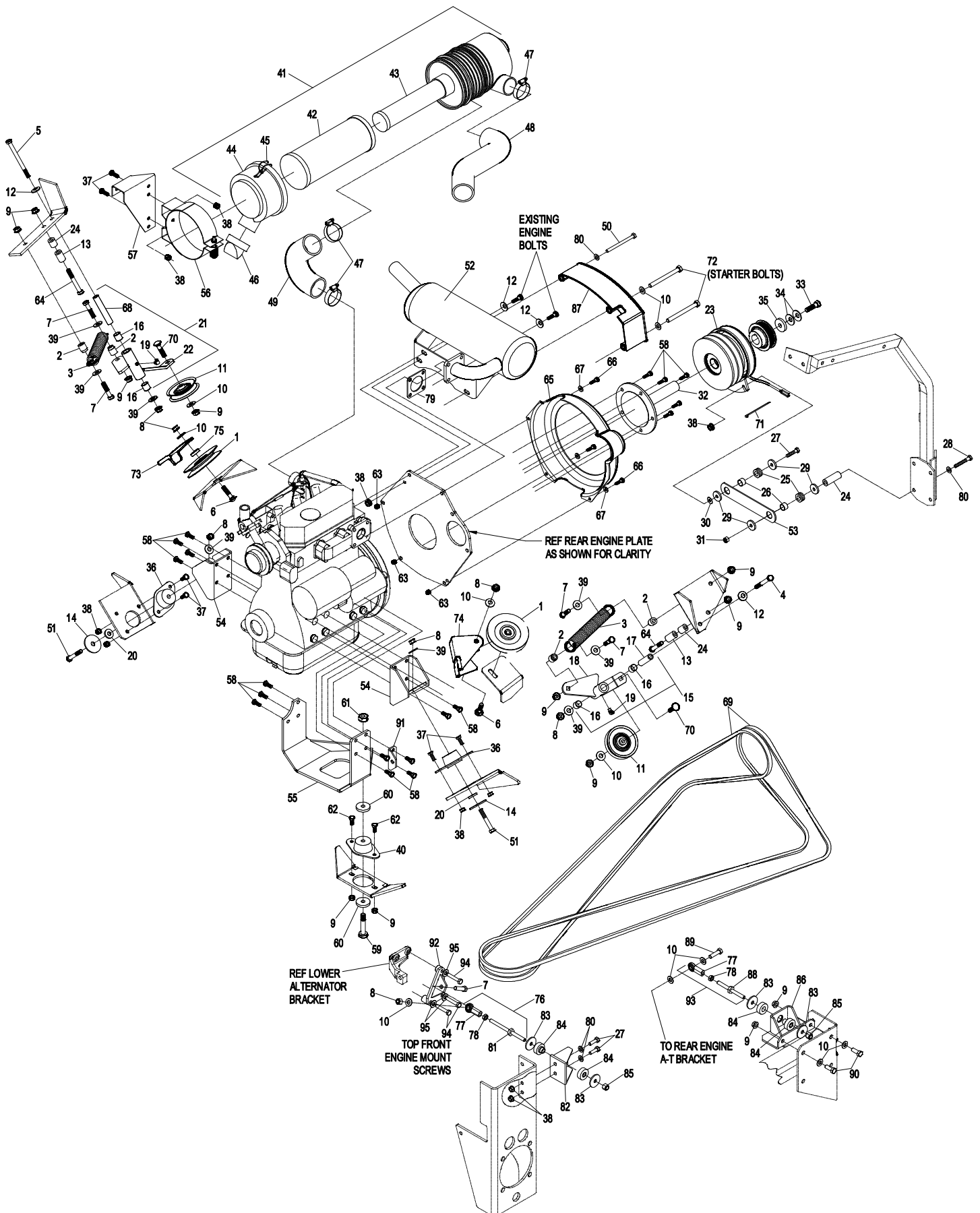
COMMON ENGINE DECK GROUP

Ref No.	Part No.	Description	Qty. Req'd.	Ref No.	Part No.	Description	Qty. Req'd.
1	103-0984	Sheave, Stationary idler	2	49	103-0921	Hose, Air cleaner to engine	1
2	103-1503	Spacer, Belt tightener	4	50	322-19	Screw, 5/16-18 x 4.....	2
3	103-1767	Spring, Belt tightener	2	51	323-12	Screw, 3/8-16 x 2 1/2.....	2
4	323-16	Screw, 3/8-16 x 4.....	1	52	103-2592	Kit, Muffler.....	1
5	323-23	Screw, 3/8-16 x 4 1/2.....	1	53	103-0192-03	Strap, Clutch/brake.....	1
6	3231-40	Bolt, Carr 3/8-16 x 2 1/4....	2	54	103-0839-03	Mount, Engine LH & RH ...	2
7	323-8	Screw, 3/8-16 x 1 1/2.....	5	55	103-0870-03	Mount, Rear engine	1
8	3296-39	Nut, nylock 3/8-16.....	7	56	103-1058	Bracket, Air filter	1
9	3290-357	Nut, whizlock 3/8-16.....	11	57	103-0953-03	Mount, Air filter	1
10	3256-24	Washer, flat SAE 3/8	9	58▽	33114-020	Screw, M8-1.25 x 20mm...	18
11	103-0983	Sheave, tightener.....	2	59	3254-14	Screw, 1/2-13 x 3 1/2.....	1
12	98-5975	Washer, 3/8 disc spring	7	60	86-1990	Washer, Thrust.....	2
13	103-1361	Spacer, stop bolt.....	1	61	3296-23	Nut, Nyloc 1/2-13	1
14	83-1040	Washer, Side mnt fail-safe	2	62	323-5	Screw, 3/8-16 x 7/8	2
15	103-0985	Asm, Tightener w/bshgs LH	1	63	3296-42	Nut, Nyloc 1/4-20	3
16	1-513034	Bearing, Sleeve.....	4	64	323-13	Screw, 3/8-16 x 2 3/4	2
17	103-0919	Bushing, Tightener pivot LH	1	65	103-1289	Shroud, Flywheel.....	1
18	103-0203-03	Asm, Tightener LH.....	1	66	321-5	Screw, 1/4-20 x 7/8	3
19	302-40	Zerk, 1/4-20 90°	2	67	3256-22	Washer, flat SAE 1/4.....	3
20	66-6480	Washer, Side mnt spacer .	2	68	103-0040	Bushing, Tightener pivot RH	1
21	103-0986	Asm, Tightener w/bshgs RH	1	69	103-0881	Belt, mule drive	2
22	103-0204-03	Asm, Tightener RH	1	70	3231-4	Bolt, Carr 3/8 x 1 1/2	2
23	103-0083	Asm, Clutch w/tie Warner .	1	71	1-303335	Tie, plastic	2
24	103-0193	Spacer, Clutch strap	3	72	103-3726	Screw, M10-1.25 x 110mm	2
25	1-633630	Grommet.....	2	73	103-3414-03	Wld, XP RH Sheave Guard	1
26	1-633545	Spacer, Grommet	2	74	103-4007-03	Wld, XP LH Sheave Guard	1
27	322-6	Screw, 5/16-18 x 1 1/4	3	75	103-3186	Spacer, RH Sheave Guard	1
28	322-12	Screw, 5/16-18 x 2 1/2	1	76	103-3746	Asm, Front A-T Link.....	1
29	1-613235	Washer	4	77	103-0608	Rod End, 3/8-24 Female...	2
30	3256-3	Washer, Flat std 5/16	1	78	3220-3	Nut, 3/8-24 Jam	2
31	3296-29	Nut, Nyloc 5/16-18	1	79	103-1385	Gasket, Muffler	1
32	103-0286	Shaft, Engine stub.....	1	80	3256-23	Washer, Flat SAE 5/16	4
33	3212-6	Screw, 7/16-20 x 1 1/2	1	81	103-3561	Link, Front A-T	1
34	1-603610	Washer, Spring disc 7/16 .	2	82	103-3559-03	Wld, Front Frm A-T Brkt...	1
35	1-543610	Washer, Clutch	1	83	93-6099	Washer, 3/8 ID x 1.5 OD ..	4
36	103-2613	Isolator, LH/RH	2	84	103-3568	Isomount, A-T Link	2
37	322-3	Screw, 5/16-18 x 3/4.....	6	85	3296-6	Nut, Nyloc 3/8-24	1
38	32128-20	Nut, Whizlock 5/16-18.....	10	86	103-3566-03	Wld, Rear Frm A-T Brkt....	1
39	3256-4	Washer, Flat std 3/8	8	87	103-3724-03	Wld, Rear Eng A-T Brkt....	1
40	103-2572	Isolator,Rear	1	88	103-3567	Link, Front A-T	4
41	103-1057	Asm, 5" canister air filter ...	1	89▽	323-29	Screw, 3/8-16 x 1-3/8.....	1
42	103-1327	Filter, Air.....	1	90	323-6	Screw, 3/8-16 x 1	2
43	103-1326	Filter, Safety air	1	91	103-3908	Bracket, Ground.....	1
44	103-1060	Cover, Air filter w/latch	1	92	103-3556-03	Wld, Front A-T Eng Brkt...	1
45	1-643283	Latch, Air cleaner	1	93	103-3745	Asm, Rear A-T Link	1
46	87-9400	Valve, Vacuator.....	1	94▽	33114-045	Screw, M8-1.25 x 45mm...	3
47	2412-42	Clamp, Air cleaner hose ...	1	95	1-303334	Washer, 5/16 disc spring ..	3
48	103-0920	Hose, Plenum to air cleaner	1				

Exmark black touch up spray paint – gloss black

▽ Use Prolock, Nut type (Part No. 1-840022) on screws threaded into block, and rear A-T link to Rear Engine Bracket screw.

COMMON ENGINE DECK GROUP



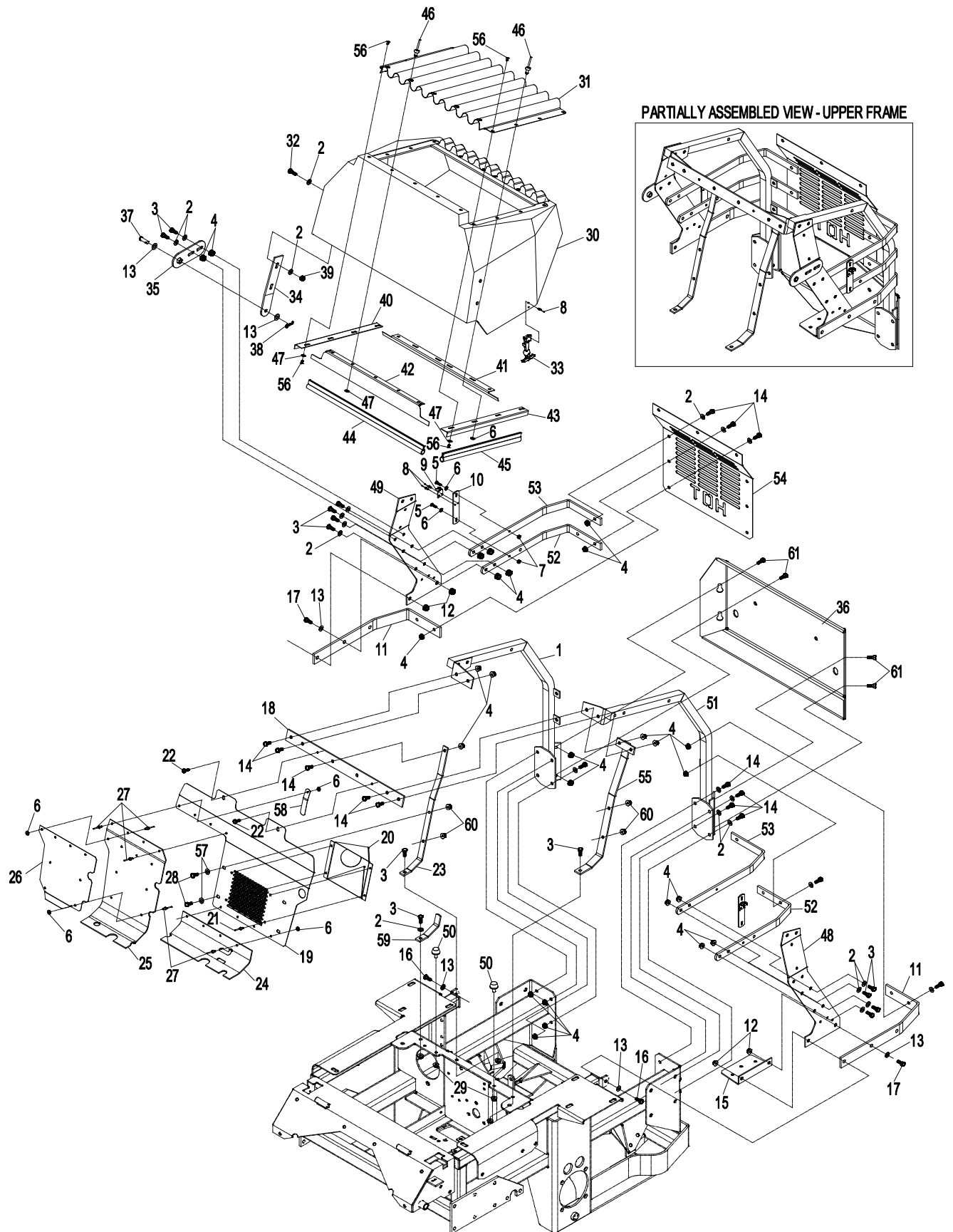
UPPER FRAME GROUP

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-0146-03	Frame, Rear upper RH	1	31	1-633864-03	Screen, Radiator	1
2	3256-23	Washer, Flat SAE 5/16	42	32	322-4	Screw, 5/16-18 x 7/8	4
3	322-3	Screw, 5/16-18 x 3/4	19	33	1-643188	Latch, EPDM Rubber	2
4	32128-20	Nut, Whizlock 5/16-18	45	34	1-633885-03	Plate, Hood Hinge	2
5	1-803069	Screw, 10-24x3/4 BHSCap	4	35	1-632986-03	Shackle, Hood Hinge	2
6	3256-14	Washer, Flat std #10	31	36	103-1479-03	Bumper, Rear	1
7	3296-2	Nut, Nyloc #10-24	4	37	1-808285	Pin, Clevis 3/8 x 1 1/8	2
8	923786	Pop Rivet	8	38	1-806003	Pin, Hair Cotter .080 #2	2
9	1-643189	Keeper, Rubber Latch	2	39	3296-29	Nut, Nyloc 5/16-18	4
10	1-633877-03	Bar, Latch Hook	2	40	1-643106-03	Angle, Rad. Trim Side RH	1
11	103-0941-03	Bar, Rad. mounting frame.	2	41	1-643108-03	Angle, Rad. Trim Bottom	1
12	3290-357	Nut, Whizlock 3/8-16	4	42	1-643107-03	Angle, Rad. Trim Top	1
13	3256-24	Washer, Flat SAE 3/8	4	43	1-643105-03	Angle, Rad. Trim Side LH	1
14	322-5	Screw, 5/16-18 x 1	22	44	1-643187	Seal, Trim 20"	2
15	103-1516-03	Bracket, Bottle	1	45	1-643186	Seal, Trim 14"	2
16	323-7	Screw, 3/8-16 x 1 1/4	2	46	1-803072	Rivet, Bulbex .19 x 1.07	15
17	323-6	Screw, 3/8-16 x 1	2	47	1-303435	Washer, Spring Disc .25	7
18	103-0963-03	Bar, Radiator rear mount ..	1	48	103-0954-03	Mount, side LH	1
19	103-0951-03	Deflector, Air	1	49	103-0955-03	Mount, side RH	1
20	103-0964-03	Plenum, Air intake	1	50	1-523420	Bumper, Rubber	2
21	3269-3	Pop Rivet	4	51	103-0145-03	Frame, Rear upper LH	1
22	49-2040	Screw, Tapping 1/4-20x3/4	2	52	103-0942-03	Rib, Bottom	2
23	103-0945-03	Brace, Radiator RH	1	53	103-0943-03	Rib, Top	2
24	103-1001	Shield, Engine	1	54	103-0939-03	Guard, Muffler	3
25	103-1002	Shield, Air cleaner.	1	55	103-0094-03	Brace, Rad. & mtg bar	1
26	103-1003-03	Plate, Shield lift	1	56	103-1363	Rivet, 1/4 ratchet	4
27	1-803035	Rivet, Pop 3/16x1/4 alum..	16	57	3256-22	Washer, flat SAE 1/4	4
28	321-4	Screw, 1/4-20 x 3/4	4	58	1-523285	Clip, Baffle	1
29	3296-42	Nut, Nyloc 1/4-20	2	59	103-1458-03	Tab, Air cleaner shield	1
30	1-633857	Hood, Engine compartment	1	60	32128-33	Nut, whizlock 1/4-20	4
☆	103-1044	Hood, with decals	1	61	3234-47	Screw, Flange 5/16-18x3/4...	4

Exmark black touch up spray paint – gloss black

☆ Hood only comes with black logo decal, side decals need to be ordered separately.

UPPER FRAME GROUP



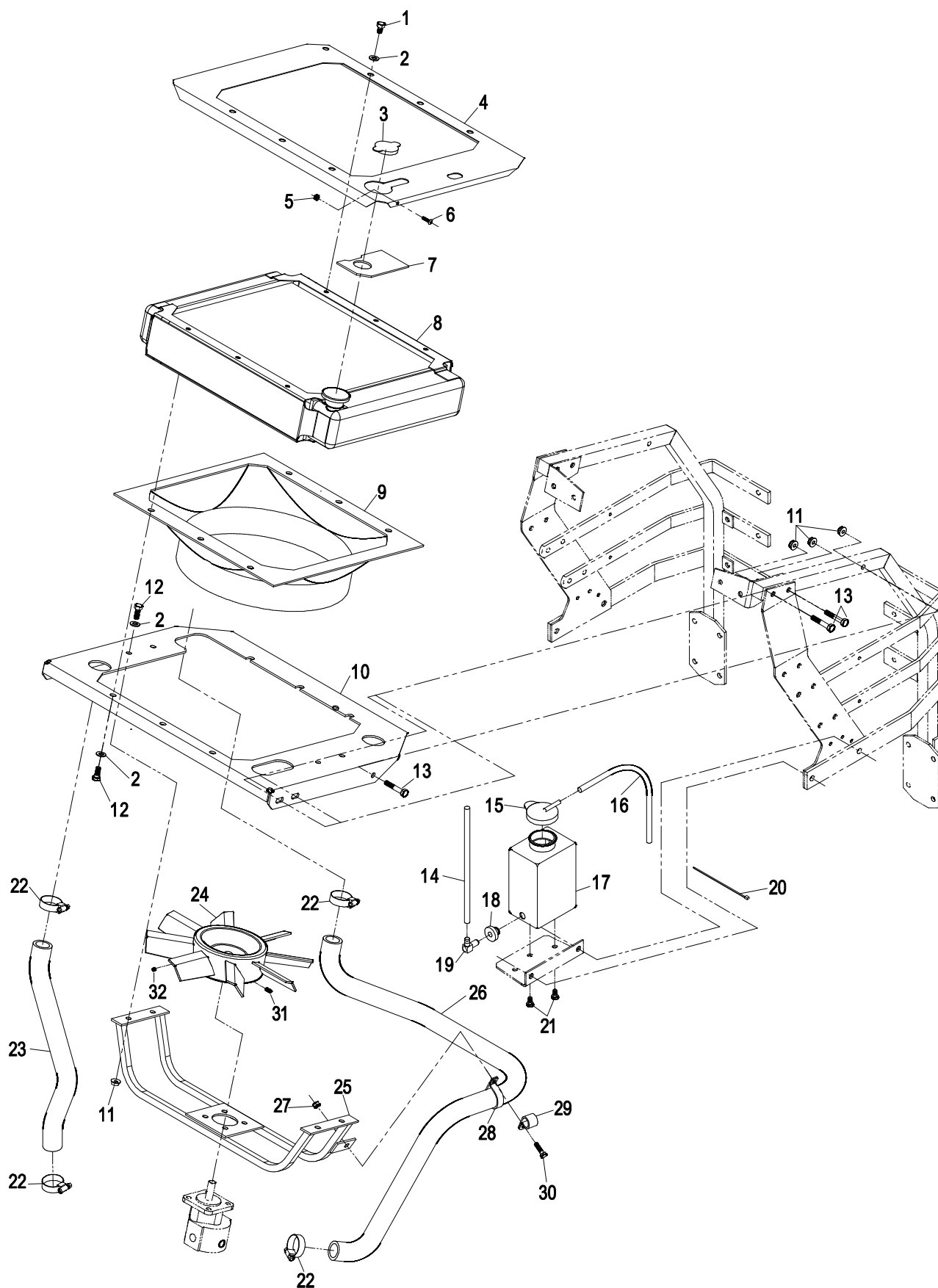
ENGINE COOLING GROUP

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	322-1	Screw,5/16-18 x 1/2.....	6	17	1-643163	Tank,overflow	1
2	3256-23	Washer,flat	12	18	1-513645	Bushing,valve fuel.....	1
3	1-643161	Cap,radiator	1	19	1-643259	Fitting,elbow.....	1
4	103-0940-03	Mount,radiator top	1	20	1-303287	Tie,plastic 5.5 x .044 x .1...	3
5	3296-2	Nut,nylock #10-24	1	21	321-2	Screw,1/4-20 x 1/2.....	2
6	1-803069	Screw,#10-24 x .75 BHSCP	1	22	1-633989	Clamp,hose.....	4
7	103-1352	Shield,radiator fill neck	1	23	103-2505	Hose,engine outlet	1
8	103-0891	Radiator,IHT #DA12-10900	1	24	103-0892	Fan,crowley	1
9	103-0898	Shroud,engine cooling.....	1	25	103-0086-03	Wld,fan motor mount.....	1
10	103-0948-03	Mount,Radiator bottom.....	1	26	103-0922	Hose,engine inlet	1
11	32128-20	Nut,whizlock 5/16-18	10	27	3296-42	Nut,nylock 1/4-20.....	1
12	322-3	Screw,5/16-18 x 3/4	10	28	103-0113	Clip,loom 1.38.....	1
13	322-9	Screw,5/16-18 x 1 3/4.....	6	29	1-513762	Clip,loom .50.....	1
14	103-1445	Hose,.31 ID x 37.00.....	1	30	321-6	Screw,1/4-20 x 1.0.....	1
15	1-643164	Cap,tank overflow.....	1	31	3245-44	Setscrew 1/4-20 x 3/8	1
16	1-643131	Hose,.25 ID x 22.00.....	1	32*	909848	Setscrew,1/4-20 x 1/4.....	1

* Setscrew is installed over keyway.

Exmark black touch up spray paint – gloss black

ENGINE COOLING GROUP



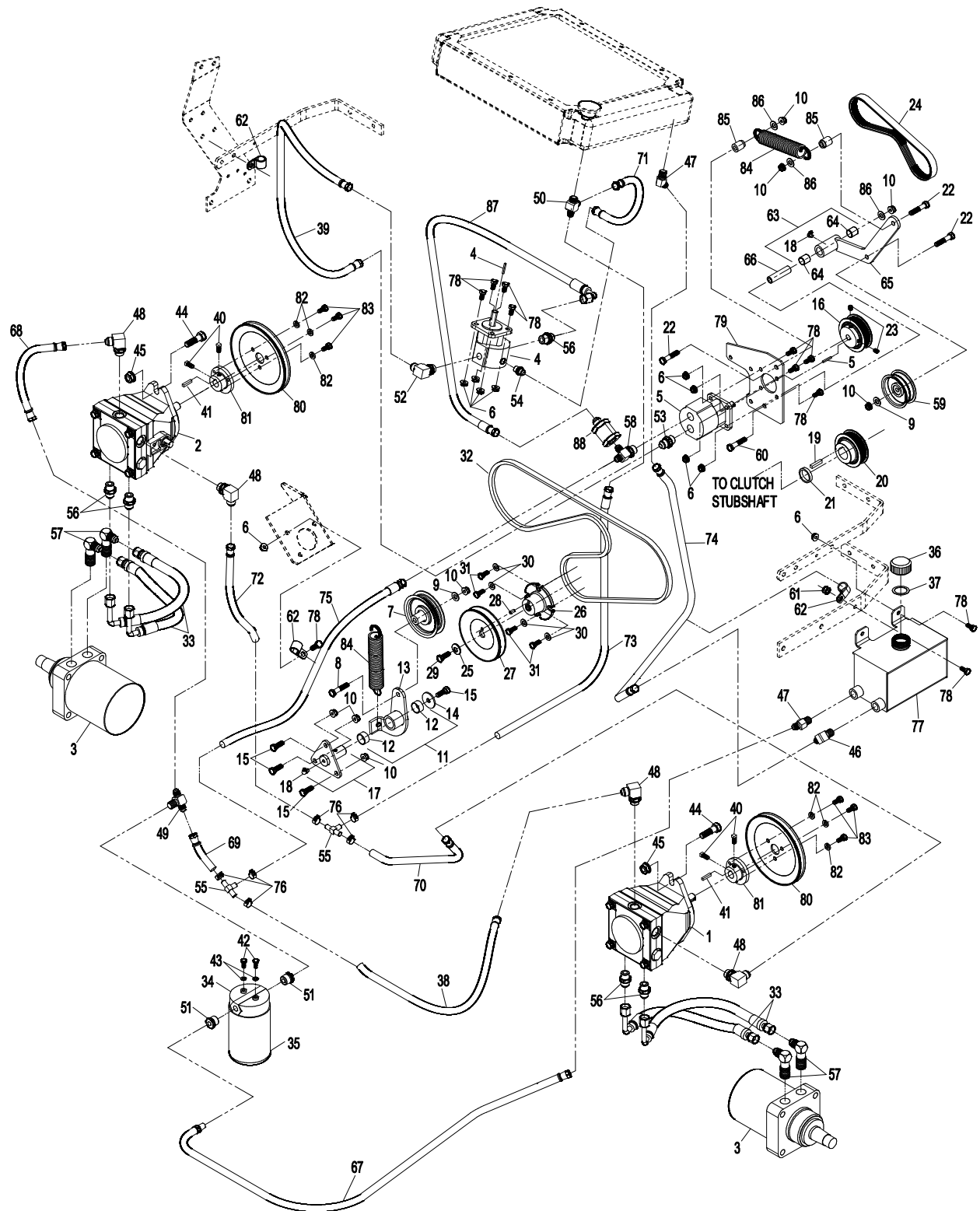
HYDRAULIC GROUP

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-0989	Pump, hydro LH	1	47▽	103-2151	Elbow,45°9/16JICx3/8NPT.....	2
2	103-0990	Pump, hydro RH.....	1		103-1020	O-Ring (37° flare #6)	1
	100-6110	Kit, seal service 21L	1	48	103-1014	Elbow,90°9/16JICx3/4O-rg.....	4
	100-2669	Kit, input shaft 21L.....	1		1-603920	O-Ring (SAE #8)	1
	103-2670	Kit, thrust bearing 21L	1	49	103-1018	Fitting, side tee.....	1
	103-2668	Kit, cylinder block 21L	1	50▽	103-2154	Fitting, run tee	1
	103-2667	Kit, valve plate 21L	1		103-1020	O-Ring (37° flare #8)	1
3	103-2489	Motor, wheel drive	2	51▽	103-1390	Fitting, bushing 3/8-1/2 NPT ..	2
	1-000099	Kit, seal.....	1	52	103-1392	Elbow,90°9/16JICx9/16O-rg ...	1
	1-000139	Kit, bearing	1		1-603921	O-Ring (SAE #6)	1
4	103-0893	Motor, hydraulic fan.....	1		1-603992	O-Ring (37° flare #8)	1
	103-1865	Kit,seal service (fan motor).....	1	53	103-1393	Fitting, strt9/16JICx9/16O-rg .	1
	32150-1	Key, fan pump or motor	1		1-603921	O-Ring (SAE #6)	1
5	103-1325	Pump, hydraulic fan.....	1		1-603992	O-Ring (37° flare #8)	1
	103-1866	Kit,seal service (fan pump).....	1	54	103-2157	Fitting, strt9/16JICx7/16O-rg ..	1
	32150-1	Key, fan pump or motor	1		1-603923	O-Ring (SAE #4)	1
6	32128-20	Nut, whizlock 5/16-18	10		103-1020	O-Ring (37° flare #6)	1
7	103-0049	Sheave, hydro pump idler	1	55	1-603721	Fitting, tee 3/8 hose barb	2
8	323-12	Screw, 3/8-16 x 2 1/2.....	2	56	1-603990	Fitting, strt 3/4JICx3/4O-rg	5
9	3256-24	Washer, 3/8 SAE.....	2		1-603992	O-Ring (37° flare #8)	1
10	3290-357	Nut, whizlock 3/8-16	8		1-603920	O-Ring (SAE #8)	1
11	103-1448	Asm, tightener	1	57	1-633605	Elbow, 90° 3/4JICx7/8O-rg.....	4
12	1-323729	Bearing, sleeve.....	2		1-603992	O-Ring (37° flare #8)	1
13	103-1415-03	Tightener	1		1-603919	O-Ring (SAE #10)	1
14	93-6099	Washer, 3/8 x 1.50 O.D.....	1	58	103-2159	Fitting, tee3/4JICx3/4O-rg	1
15	323-4	Screw, 3/8-16 x 3/4.....	4		1-603992	O-Ring (37° flare #8)	1
16	103-1338	Sheave, fan pump driven	1		1-603920	O-Ring (SAE #8)	1
17	103-1478-03	Tightener, spindle.....	1	59	1-633167	Sheave, fan pump idler	1
18	302-40	Zerk, 90° 1/4-28.....	2	60	323-14	Screw, 3/8-16 x 3	1
19	13-2840	Key, square 1/4 x 1 1/4.....	1	61	3296-29	Nut, Nyloc 5/16-18	1
20	103-1339	Sheave, fan pump drive	1	62	1-633396	Clamp, .69.....	3
21	103-1422	Spacer, fan pump drive	1	63	103-1457	Asm, fan pump tightener	1
22	323-9	Screw, 3/8-16 x 1 3/4.....	3	64	1-513034	Bearing, sleeve	2
23◇	3246-6	Setscrew, 5/16 x 3/4	2	65	103-1417-03	Tightener, fan pump	1
24	103-1297	Belt, fan pump drive	1	66	1-603384	Bushing, tightener pivot.....	1
25	98-5975	Washer, disc spring 3/8.....	1	67	103-1397	Hose, lo-pressure (54")	1
26	103-1421	Hub, engine sheave	1	68	103-1398	Hose, lo-pressure (7.75")	1
27	103-1426	Sheave, engine	1	69	103-1399	Hose, lo-pressure (4")	2
28	103-1459	Pin, spring roll 1/4	1	70	103-1401	Hose, lo-pressure (11").....	1
29	323-6	Screw, 3/8-16 x 1.....	1	71	103-1402	Hose, lo-pressure (13").....	1
30	3256-23	Washer, 5/16 SAE.....	4	72	103-1403	Hose, lo-pressure (13").....	1
31	33114-020	Screw, M8-1.25 x 20.....	4	73	103-1404	Hose, lo-pressure (36").....	1
32	103-2600	Belt, hydro pump drive	1	74	103-1405	Hose, lo-pressure (30").....	1
33	103-0973	Hose, wheel motor (72").....	4	75	103-3117	Hose, lo-pressure (33").....	1
	103-0972	Hose, wheel motor (60").....	4	76	1-603827	Clamp, hose (5/8")	6
34▽	103-1395	Head, filter	1	77▽	103-0965-03	Tank, hydraulic reservoir	1
35	103-2146	Element, hydraulic oil filter	1	78	322-4	Screw, 5/16-18 x 7/8.....	11
36	1-513167	Cap, hydraulic tank.....	1	79	103-1299-03	Plate, fan pump mounting.....	1
37	1-523103	Gasket, tank cap.....	1	80	103-1472	Sheave, hydro pump	2
38	103-1400	Hose, lo-pressure (24").....	1	81	103-1471	Hub, hydro pump sheave	2
39	103-0054	Hose, hi-pressure fan pump ...	1	82	1-805005	Lockwasher, 5/16	6
40◇	1-803050	Setscrew, 5/16-18 x 3/4	4	83	322-2.	Screw, 5/16-18 x 5/8	6
41	103-2739	Key, 5mm x 5mm x 32mm	2	84	1-603414	Spring, tightener.....	2
42	321-3	Screw, 1/4-20 x 5/8	2	85	103-1575	Spacer, fan pump spring.....	2
43	1-805004	Lockwasher, 1/4.....	2	86	3256-4	Washer, 3/8 std.....	3
44	325-5	Screw, 1/2-13 x 1 1/4	4	87	103-3114	Hose, lo-pressure (27")	1
45	32128-49	Nut, whizlock 1/2-13	4	88	103-3110	Filter	1
46	103-1012	Elbow,90°9/16JICx3/8NPT	1				

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

▽ Use Teflon pipe sealant on pipe threads in reservoir, filter head, reducer bushing in filter head, & cooler.
Exmark black touch up spray paint - gloss black

HYDRAULIC GROUP



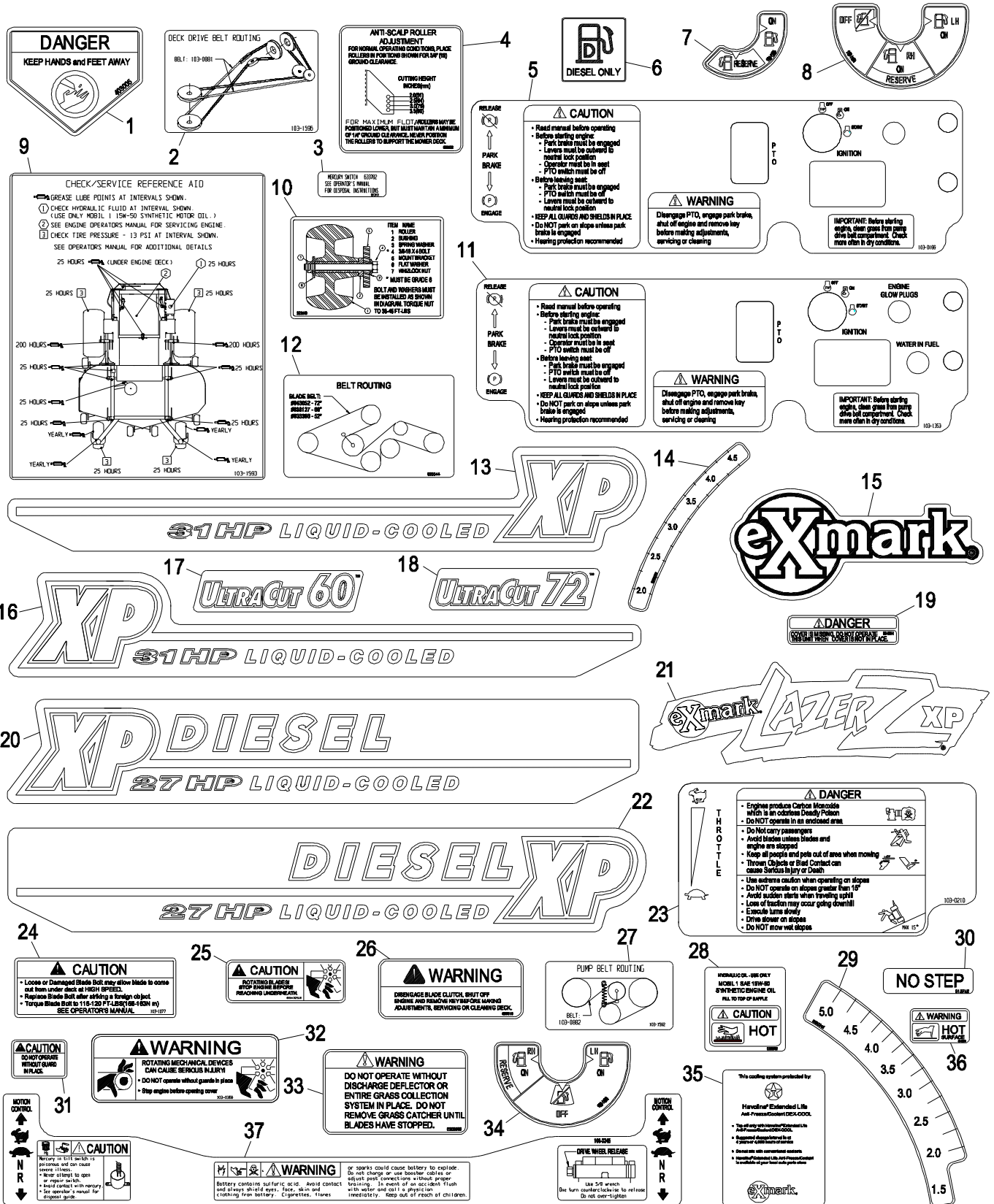
DECAL GROUP

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	1-403005	Decal, Danger.....	2	20◇	103-1163	Decal, Hood 27HP XP LH..	1
2	103-1596	Decal, Belt routing	1	21	103-1168	Decal, Lazer XP swash.....	1
3	1-643401	Decal, Mercury switch	1	22◇	103-1164	Decal, Hood 27HP XP RH.	1
4	1-633922	Decal, Anti-scalp.....	1	23	103-0210	Decal, Console 2.....	1
5	103-0166	Decal, Console 1	1	24	103-1077	Decal, Bolt torque	1
6◇	103-1636	Decal, Diesel only	2	25	1-643253	Decal, Radiator fan	2
7	103-1365	Decal, Fuel valve reserve..	1	26	1-633313	Decal, Warning.....	1
8◇	103-1505	Decal, Fuel valve XPD.....	1	27	103-1592	Decal, Belt routing XP	1
9	103-1593	Decal, Check service.....	1	28	1-523552	Decal, Hyd tank/hot surface	1
10	1-323540	Decal, Roller mounting	1	29	1-633345	Decal, Deck height.....	1
11◇	103-1353	Decal, Console	1	30	1-513742	Decal, No step	2
12	1-643222	Decal, Belt routing	1	31	1-513748	Decal, Guard.....	1
13◆	103-1161	Decal, Hood 31HP XP RH.	1	32	103-0368	Decal, Rotating devices	1
14	1-633706	Decal, Deck height	1	33	1-303508	Decal, Discharge warning.....	1
15	1-643103	Decal, Exmark logo	1	34◆	103-1506	Decal, Fuel valve XPG	1
16◆	103-1162	Decal, Hood 31HP XP LH .	1	35	103-0223	Decal, Havoline coolant	1
17	103-1146	Decal, Ultracut 60	1	36	65-2690	Decal, Hot surface	2
18	103-1147	Decal, Ultracut 72	1	37	103-0245	Decal, Top console	1
19	98-5954	Decal, Missing cover	3		103-1649	Decal kit, XP	1

◇ Lazer XP Diesel models only

◆ Lazer XP Gas models only

DECAL GROUP



27 HP DIESEL ELECTRICAL GROUP

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	1-543792	Wingnut, nyloc	2	28	1-633782	Switch, tilt	1
2	103-1311-03	Holddown, battery	1	29	103-1159	Cable, battery ground (-)	1
3	103-1312	Bolt, battery holddown.....	2	30*	103-1160	Cable, starter(+) w/insulators .	1
4	1-643178	Insulator, alternator (+)	1	31	322-3	Screw, 5/16-18 x ¾.....	2
5	103-1340	Insulator, battery terminal ..	1	32	32128-20	Nut, 5/16-18 whizlock	2
6☆		Battery, 12V SAE post	1	33⊗	Briggs & Stratton P/N 820373		
7	3290-500	Screw, #10-24 x 5/8	12			Module, pre-heat timer	1
8	100-6186	Module, seat delay	1	34	103-1349	Cable, engine ground (-).....	1
9	3296-2	Nut, #10-24 Nyloc	8	35	3296-42	Nut, ¼-20 Nyloc	2
10	1-513051	Switch, drive lever N.O.	2	36	32144-70	Screw, 5/16-18 x ¾ taptite ..	1
11	1-633181	Plate, tapped	3	37	1-643275	Relay, 12V	4
12	1-643267	Indicator, red LED	1	38	1-816001	Fuse, 20 amp	1
13	1-513374	Meter, engine hours	1	39	103-1368	Fuse, 40 amp	1
14	103-2106	Key, Exmark logo	1	40	1-513762	Clip, loom .50.....	1
	1-603511	Key, ignition	1	41	1-643037	Guage, Voltmeter	1
15ÿ	103-0949	Sender, temperature 1/8 NPT	1	42	1-643021	Guage, Temperature	1
16	103-0498	Nut, ignition	1	43	1-303335	Plastic tie (medium).....	12
17	103-0206	Switch, ignition w/ keys	1	44	103-1227	Wiring harness, seat.....	1
18	1-633673	Switch, PTO	1	45	103-0205	Alarm, dual tone	1
19	103-1320	Indicator, amber LED	1	46	33113-025	Screw, M6x1 x 25mm	1
20	1-633396	Clip, loom .69	5	47	1-603727	Clip, loom .50.....	1
21	1-633111	Switch, brake N.O./N.C.....	1	48	3256-14	Washer, #10 SAE	2
22	103-1420	Insulator, starter (+)	1	49	1-803071	Screw, #10-24 x 1/2.....	2
23	32128-33	Nut, ¼-20 whizlock.....	1	50	33023-00	Nut, M6 Nyloc	1
24	3256-22	Washer, ¼ SAE	2	51	323-6	Screw, 3/8-16 x 1.....	1
25	321-4	Screw, ¼-20 x ¾	3	52	3256-24	Washer, Flat SAE 3/8.....	1
26	1-643115	Plastic tie (large)	1	53	3290-357	Nut, whizlock 3/8-16	1
27♦	103-3262	Harness, wiring	1				

♦ Use dielectric grease on all wiring harness connectors.

☆ 12 Volt battery, BCI group size 26, 550 cca. For warranty and/or direct replacement contact Douglas Battery at 1-800-DOUGLAS.

⊗ Refer to Engine Owner's Manual.

* Starter Cable includes insulators 103-1340 & 103-1420.

ÿ Use Teflon pipe sealant on pipe threads on temperature sending unit.

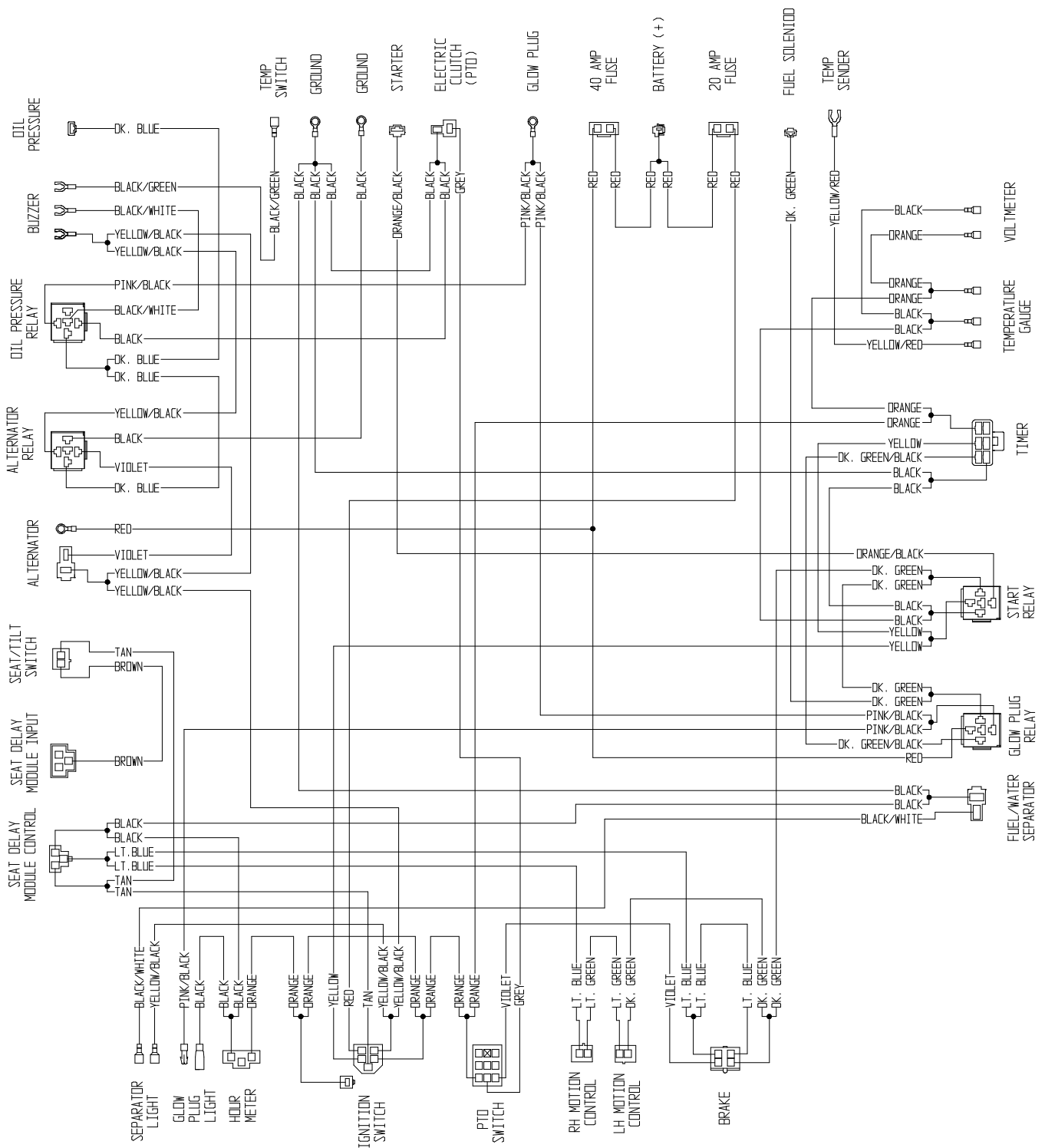
This is a detailed technical wiring diagram of a vehicle's electrical system. The diagram illustrates the layout of various components and their interconnections via a network of wires and connectors. The components are numbered 1 through 53, and the connections are labeled with text such as "TO ENGINE", "TO SEAT", "TO STARTER", "TO GROUND CLUTCH BRACKET", and "TO ALT.".

The diagram shows the following components and their connections:

- Engine Area:** Components 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53.
- Seat Area:** Components 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53.
- Starter Area:** Components 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53.
- Ground Clutch Bracket Area:** Components 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53.
- Alt. Area:** Components 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53.

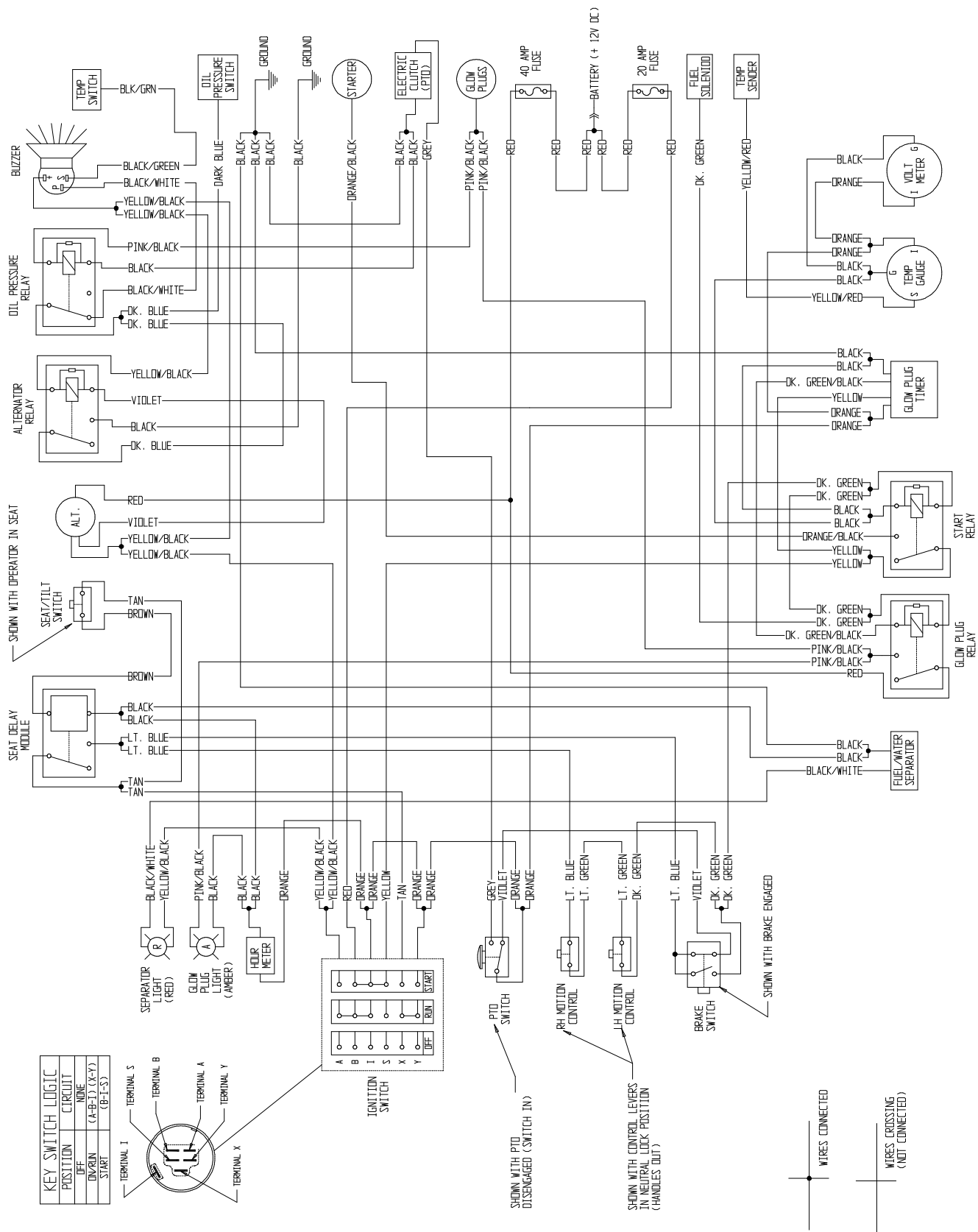
The diagram is a black and white line drawing, showing the physical layout of the components and the paths of the wires. The components are represented by various symbols, including rectangles, circles, and lines, which are standard in technical drawings. The wires are shown as lines connecting the components, with some lines having labels indicating their destination. The overall layout is complex, with many wires and components, but it provides a clear and detailed view of the vehicle's electrical system.

27 HP DIESEL WIRE HARNESS DIAGRAM



NOTE:
CONNECTORS VIEWED FROM WIRE END

27 HP DIESEL ELECTRICAL LOGIC SCHEMATIC



31 HP GAS ELECTRICAL GROUP

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	1-543792	Wingnut, nyloc	2	27	103-1159	Cable, battery ground (-)	1
2	103-1311-03	Holddown, battery	1	28*	103-1160	Cable, starter(+) w/insulators .	1
3	103-1312	Bolt, battery holddown.....	2	29	32144-70	Screw, 5/16-18 x ¾ taptite..	1
4	103-1340	Insulator, battery terminal ..	1	30	103-1349	Cable, engine ground (-).....	1
5☆		Battery, 12V SAE post	1	31	1-603727	Clip, loom .50.....	1
6	3290-500	Screw, #10-24 x 5/8	12	32	33113-025	Screw, M6x1 x 25mm	1
7	100-6186	Module, seat delay	1	33	1-633782	Switch, tilt	1
8	3296-2	Nut, #10-24 nyloc	7	34	1-513762	Clip, loom .50.....	1
9	1-633181	Plate, tapped	3	35	103-1368	Fuse, 40 amp	1
10	1-513051	Switch, drive lever N.O.	2	36	1-816001	Fuse, 20 amp	1
11	1-513374	Meter, engine hours	1	37	1-643275	Relay, 12V	3
12	103-2106	Key, Exmark logo	1	38	3296-42	Nut, ¼-20 nyloc	3
	1-603511	Key, ignition.....	1	39⊗	Briggs & Stratton P/N 825273		
13ÿ	103-0949	Sender, temperature 1/8 NPT	1			Module, ignition processor..	1
14	103-0498	Nut, ignition	1	40	321-6	Screw, ¼-20 x 1	2
15	103-0206	Switch, ignition w/ keys	1	41	103-1227	Wiring harness, seat.....	1
16	1-633673	Switch, PTO	1	42	103-0205	Alarm, dual tone	1
17	1-633396	Clip, loom .69	6	43	1-643178	Insulator, alternator(+)	1
18	1-633111	Switch, brake N.O./N.C.	1	44	103-1420	Insulator, starter(+)	1
19	32128-33	Nut, ¼-20 whizlock.....	1	45	1-643037	Guage, Voltmeter	1
20	3256-22	Washer, ¼ SAE	4	46	1-643021	Guage, Temperature	1
21	321-4	Screw, ¼-20 x ¾	2	47	3256-14	Washer, #10 SAE	2
22	1-643115	Plastic tie (large)	1	48	33023-00	Nut, M6 Nyloc	1
23	32128-20	Nut, 5/16-18 whizlock.....	2	49	1-803071	Screw, #10-24 x 1/2.....	1
24	322-3	Screw, 5/16-18 x 3/4	2	50	323-6	Screw, 3/8-16 x 1	1
25	1-303335	Plastic tie (medium)	15	51	3256-24	Washer, Flat SAE 3/8	1
26♦	103-3263	Harness,wiring	1	52	3290-357	Nut,whizlock 3/8-16	1

♦ Use dielectric grease on all wiring harness connectors.

☆ 12 Volt battery, BCI group size 26, 550 cca. For warranty and/or direct replacement contact Douglas Battery at 1-800-DOUGLAS.

⊗ Refer to Engine Owner's Manual.

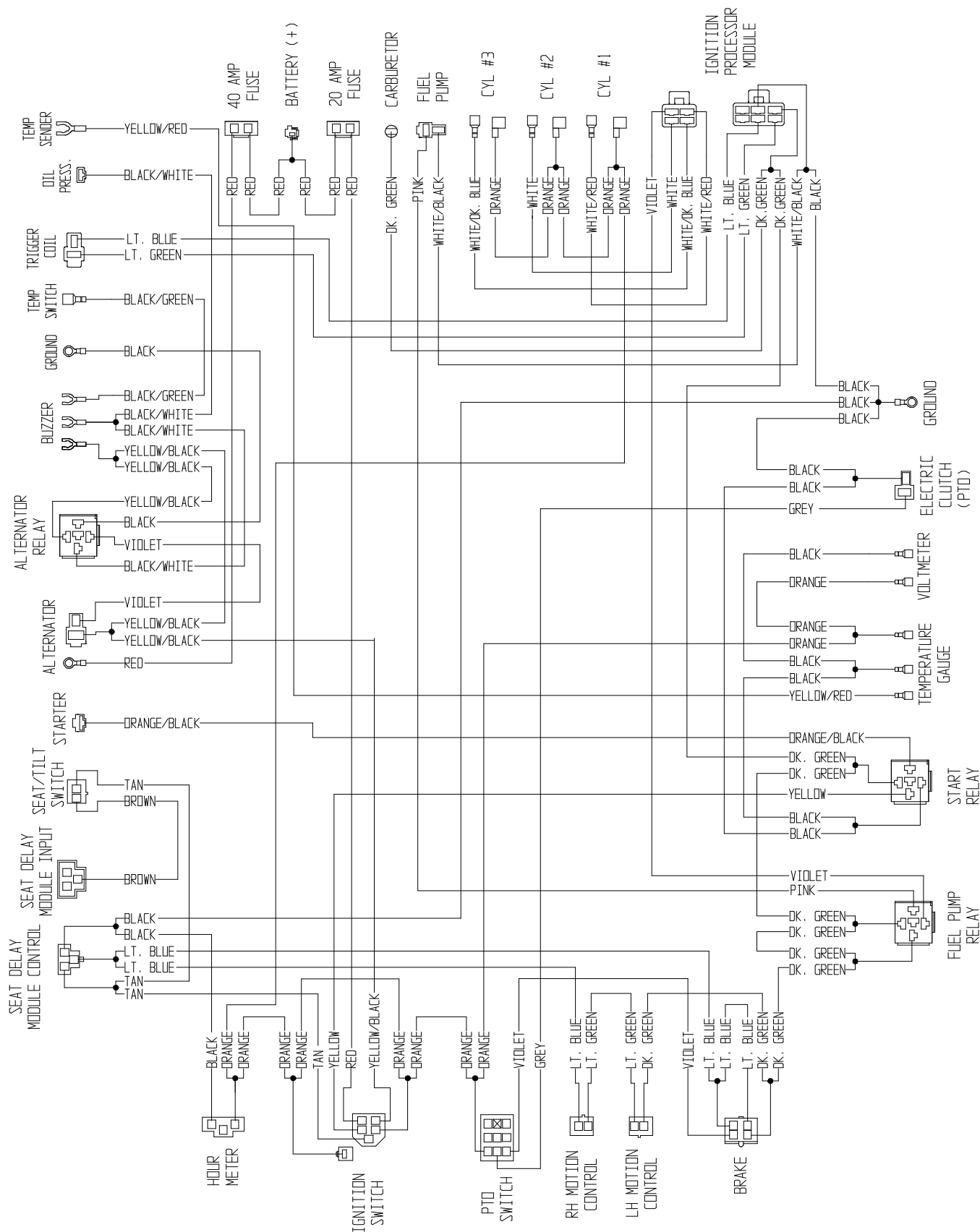
* Starter Cable includes insulators 103-1340 & 103-1420.

ÿ Use Teflon pipe sealant on pipe threads on temperature sending unit.

This is a detailed technical wiring diagram of a vehicle's electrical system. The diagram illustrates the following components and connections:

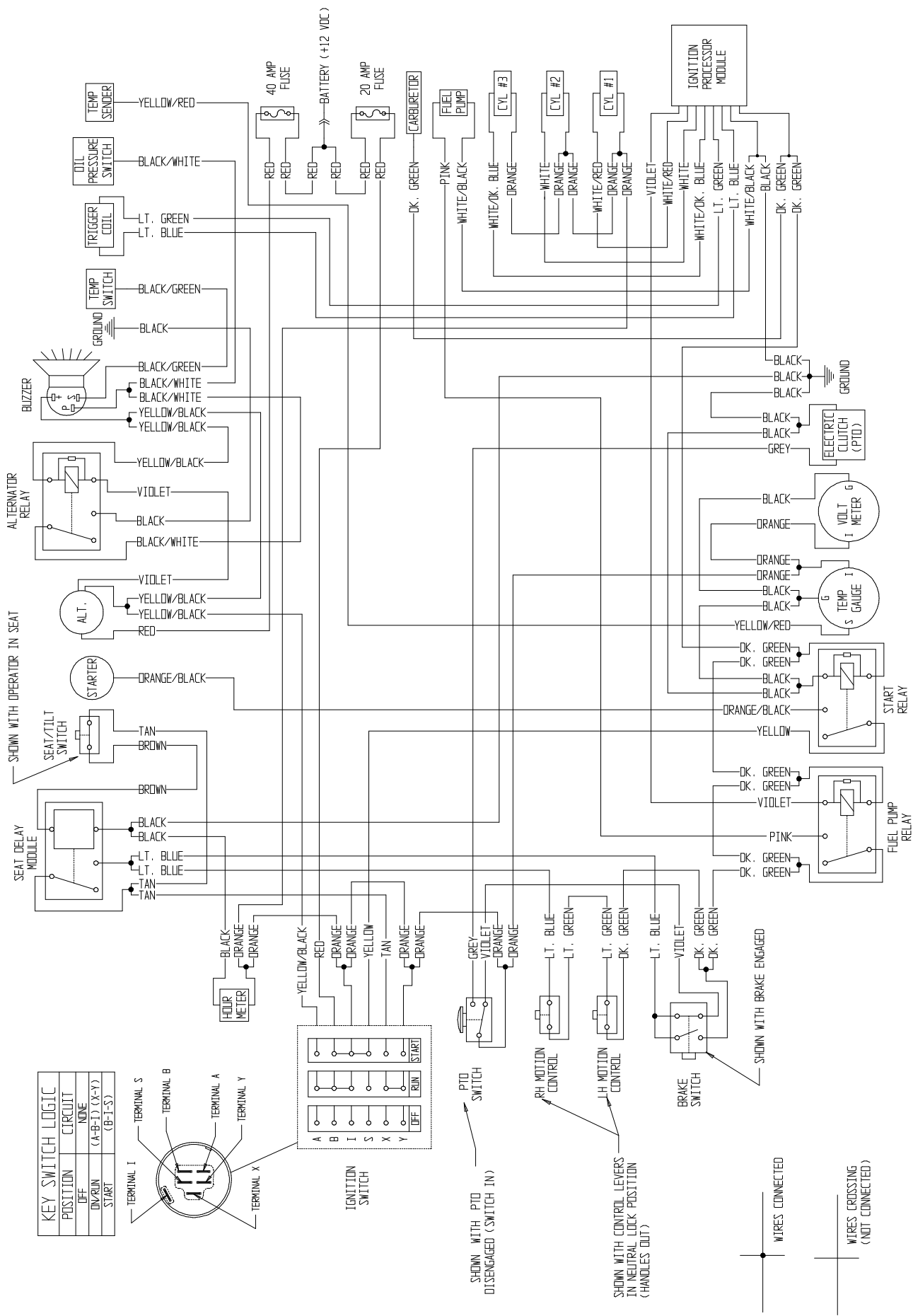
- Power Sources:** A battery (5) and an alternator (4) are shown at the top. The alternator is connected to the battery via a main power line (25).
- Starter Motor:** Labeled 'TO STARTER' (42), it is connected to the battery through a heavy-gauge cable (25).
- Fuel System:** The 'TO FUEL PUMP' (43) connection is shown, leading to a fuel pump (39) and fuel injectors (38, 40, 47).
- Engine and Sensors:** The 'TO ENGINE' (44) connection leads to various sensors and components, including a temperature sensor (45), a pressure sensor (46), and a fuel pressure sensor (41).
- Grounding and Clutch:** Connections for 'TO GROUND CLUTCH BRACKET' (50) and 'TO AL.T.' (51) are shown.
- Lighting and Signals:** The diagram includes numerous lights and signals, such as headlights (11, 12), taillights (13, 14), and various indicator lights (15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 42, 43, 44, 45, 46, 47, 50, 51, 52).
- Wiring Harness:** The entire system is interconnected by a complex network of wires, many of which are labeled with the number 25, indicating a common or main power line.

31 HP GAS WIRE HARNESS DIAGRAM

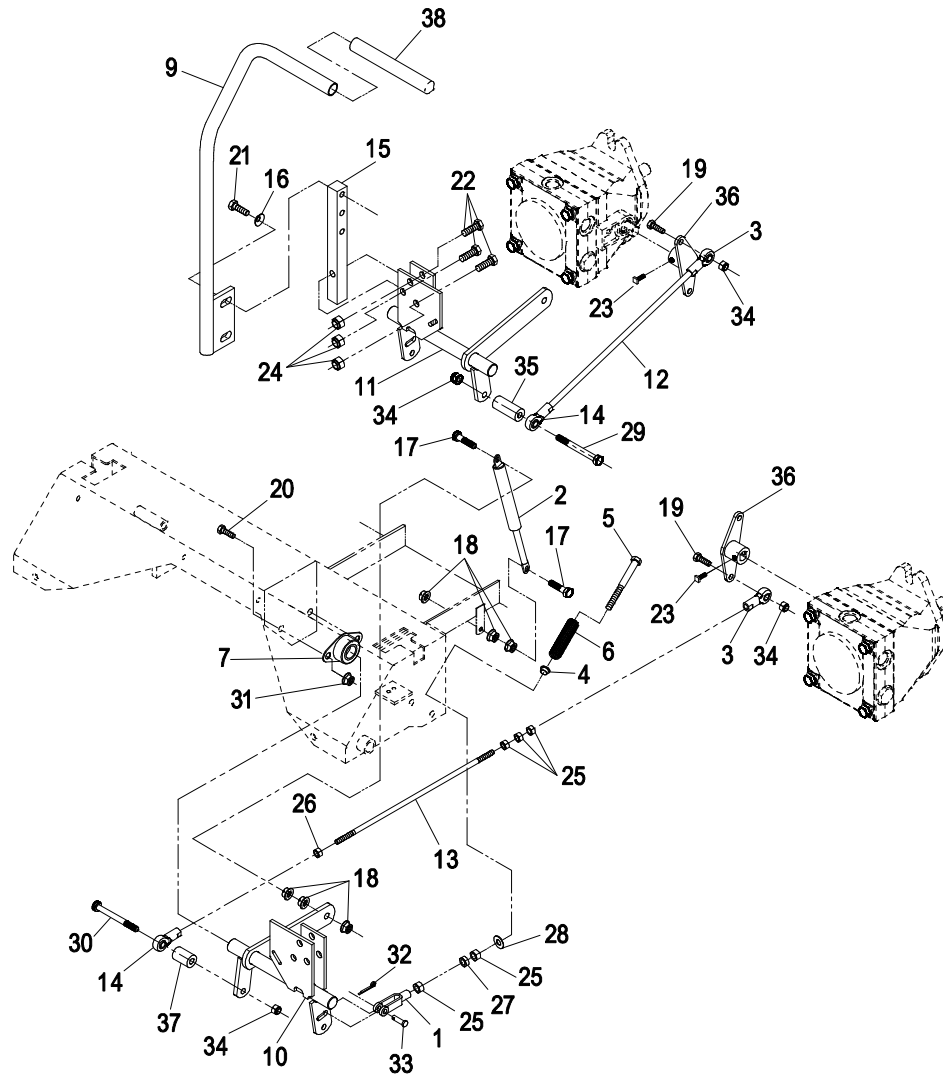


NOTE:
CONNECTORS VIEWED FROM WIRE END

31 HP GAS ELECTRICAL LOGIC SCHEMATIC



MOTION CONTROL LEVERS



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	1-303105	Yoke.....	2	19	322-6	Screw, 5/16-18 x 1 1/4.....	2
2	1-523027	Damper.....	2	20	323-4	Screw, 3/8-16 x 3/4.....	8
3	1-543017	Ball joint (RH).....	2	21	323-6	Screw, 3/8-16 x 1	4
4	1-603735	Bushing,nylon	2	22	323-9	Screw, 3/8-16 x 1 3/4	6
5	1-603737	Bolt, (neutral return).....	2	23◇	1-803022	Set screw, 5/16 x 5/8.....	2
6	1-603807	Spring, (neutral return).....	2	24	3296-39	Nut, nyloc 3/8-16	6
7	1-633102	Bearing,flanged.....	4	25	3219-2	Nut, 5/16-24.....	10
8*	103-0631	LH Lever/Grip asm	1	26	1-804524	Nut, 5/16-24 LH	2
	103-0409-03	Handle,motion control (LH)	1	27	3220-2	Nut, jam 5/16-24.....	2
9	103-0632	RH Lever/Grip asm	1	28	3256-2	Washer, 1/4	2
	103-0410-03	Handle, motion control (RH)	1	29	322-14	Screw, 5/16-18 x 3	1
10	103-0062	Bracket, motion control (LH)	1	30	322-12	Screw, 5/16-18 x 2 1/2	1
11	103-0199	Bracket, motion control (RH)	1	31	3290-357	Nut, whizlock 3/8-16.....	8
12	103-0918	Link, hydro connecting (RH)	1	32	3272-5	Pin, cotter 3/32 x 1/2	2
13	103-0058	Link, hydro connecting (LH)	1	33	1-808280	Pin, clevis 5/16 x 1	2
14	1-633152	Ball joint (LH)	2	34	3296-29	Nut, nyloc 5/16-18	4
15	103-0407	Arm, control shaft	2	35	103-0057	Spacer, hyd control (RH)....	1
16	98-5975	Washer, disc spring 3/8	4	36	103-0194-03	Arm, pump control.....	2
17	1-403180	Screw, 5/16-18 x 1 3/8(grn)	4	37	103-1361	Spacer, hyd control (LH)....	1
18	32128-20	Nut, 5/16-18.....	12	38	1-633257	Grip, motion control handle	2

* Not Illustrated.

Exmark black touch up spray paint - gloss black

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

SERVICE RECORD

[illegible]

SERVICE RECORD

[illegible]

NOTES

**SEE EXMARK'S COMPLETE
LINE OF PRODUCTS FOR TURF CARE**

LAZER Z[®]

LAZER Z[®] HP

LAZER Z[®] XP

TURF RANGER[®]

TURF TRACER[®]

TURF TRACER[®] HP

VIKING HYDRO

METRO[®]

METRO[®] HP

SELF STEERING SULKY

ULTRA VAC[™]

GRASS CATCHER

MICRO-MULCH[™] ACCESSORY