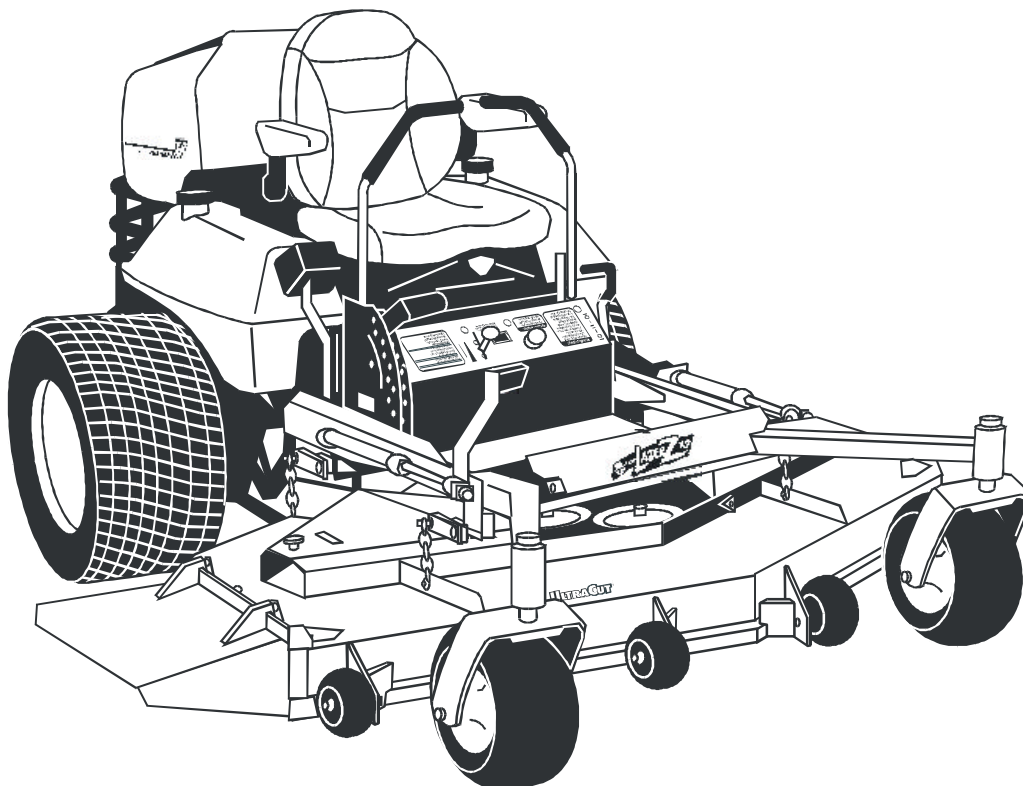


For Serial Nos.
320,000 & Higher



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.

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. 103-4160

EXMARK PARTS PLUS[®] PROGRAM

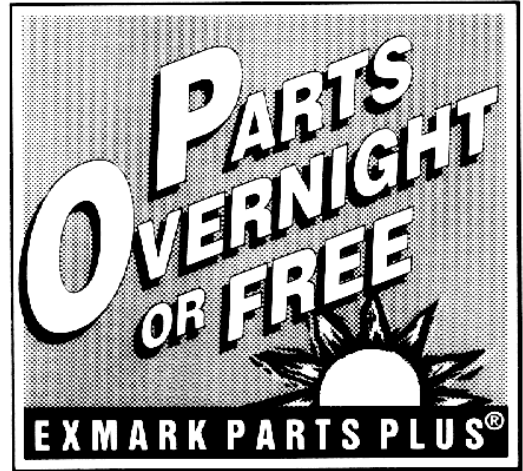
EFFECTIVE DATE: September 1, 1995

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.**

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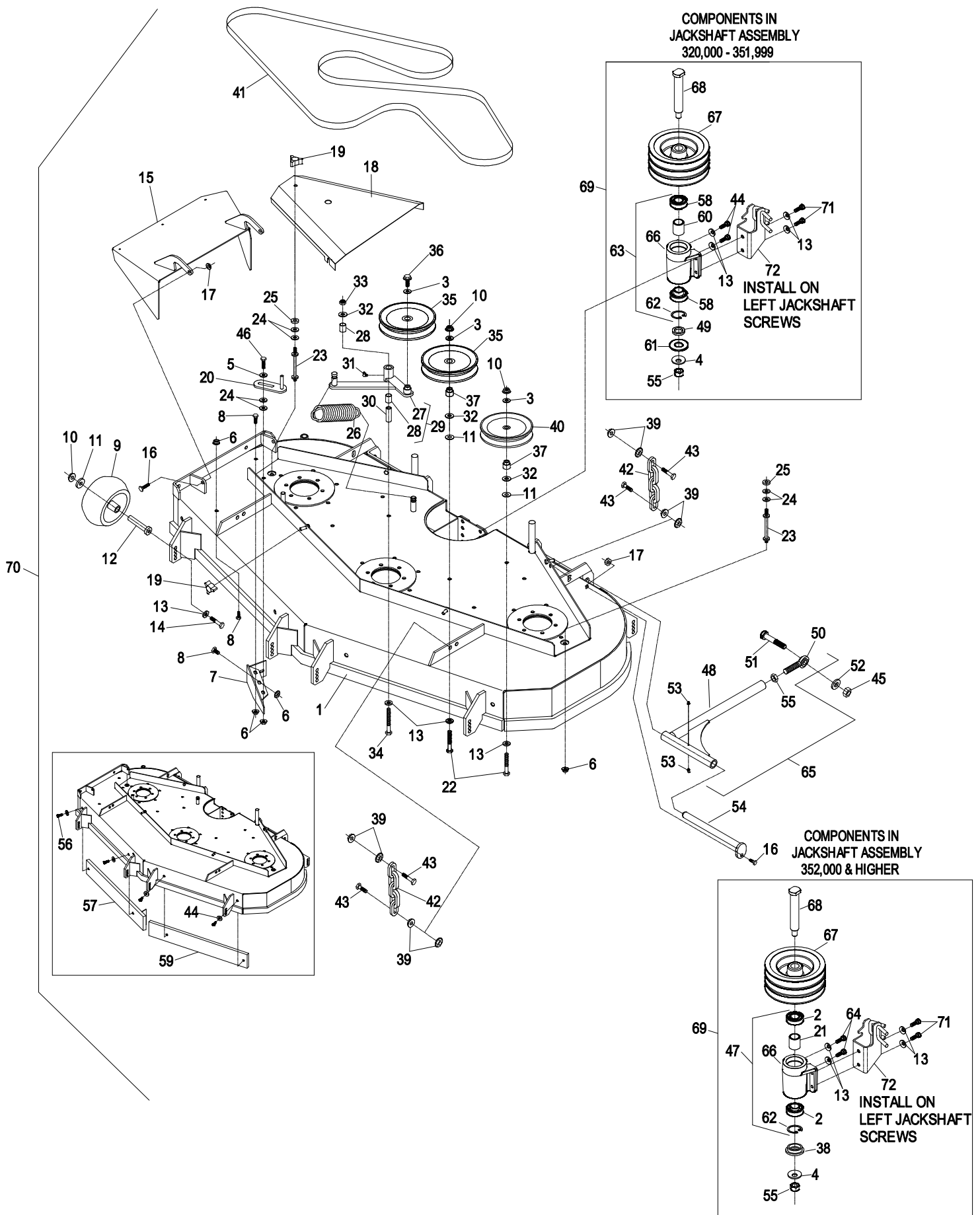
60" DECK GROUP

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-1423-01	Deck wldmt, 60	1	37	1-633456	Bushing, Idler	2
	103-1589	Deck wldmt, 60 w/decals	1	38▲	103-2535	Spacer, guard bottom	1
2+▲	103-2477	Bearing, ball	2	39	32128-37	Nut, 7/16-14 whizlock	16
3	3256-24	Washer, 3/8 SAE	3	40	1-603805	Idler pulley 5.06 O.D. V	1
4	1-513208	Washer, disc Spring	1	41	1-633127	Belt, blade drive 60" deck	1
5	1-303334	Washer, 5/16 disc spring	1	42	1-633447	Chain	4
6	32128-20	Nut, 5/16-18 whizlock	6	43	103-1898	Screw, 7/16-14 x 1-5/8 sp	8
7	1-602913-01	Baffle wldmt, discharge	1	44	1-513435	Washer, 1/2 disc spring	4
8	322-2	Screw, 5/16-18 x 5/8	3	45	3217-11	Nut, 5/8-11 hex	2
9★	1-603299	Roller, antiscalp	6	46	322-6	Screw, 5/16-18 x 1 1/4	1
10	3290-357	Nut, 3/8-16 whizlock	8	47	103-2544	Asm, jackshaft hsg w/brgs	1
11	1-373034	Washer, pivot	8	48	103-1355-01	Strut wldmt, deck	2
12	1-603602	Bushing, roller	6	49*	1-323533	Spacer shv/brg	1
13	98-5975	Washer, 3/8 disc spring	13	50	1-633029	Spherical rod end	2
14	98-5961	Screw, 3/8-16 x 4 gr 8	6	51	327-28	Screw, 5/8-11 x 5 1/2	2
15	103-1469-01	Chute, discharge 60"	1	52	3253-8	Lockwasher, 5/8 reg.spring ...	2
16	322-5	Screw, 5/16-18 x 1	4	53	302-19	Zerk, 1/4-28 straight	4
17	3296-29	Nut, 5/16-18 nylock	4	54	1-632199-01	Pin wldmt, deck strut	2
18	1-633084-01	Shield, belt 60" (RH)	1	55	3219-6	Nut, 5/8-18 hex	6
	103-1470-01	Shield, belt 60" (LH)	1	56	325-4	Screw, 1/2-13 x 1	4
19	1-323385	Knob, belt shield	6	57	103-1522-01	Weight Bar wldmt	1
20	1-322110	Belt guide wldmt	1	58+*	1-513016	Bearing	2
21▲	103-2534	Spacer, bearing	1	59	103-1515-01	Weight Bar	1
22	323-11	Screw, 3/8-16 x 2 1/4	2	60*	1-323528	Spacer, bearing	1
23	1-303537	Stud, belt shield	2	61*	1-633573	Guard, brg bottom	1
24	3256-3	Washer 5/16 std flat	6	62	32120-8	Snap Ring	1
25	1-323417	Washer, rubber	2	63*◇		Asm, Jackshaft housing w/brgs 1	
26	1-633151	Spring, extension	1	64	323-6	Screw, 3/8-16 x 1	2
27	1-632119-01	Arm wldmt, deck idler	1	65	103-1356	Strut wldmt S/A	2
28	1-513034	Bearing, pivot	2	66	103-0280	Housing, Jackshaft	1
29	1-634244	Arm wldmt/brg sub-assy	1	67+	103-0924	Sheave, Jackshaft Triple	1
30	1-603044	Bushing, idler pivot	1	68+	103-0926	Jackshaft	1
31	302-40	Zerk, 1/4-20 90°	1	69	103-0929	Jackshaft Assy	1
32	3256-4	Washer, 3/8 std flat	3	70	103-1588	Complete Deck Assy	1
33	3296-39	Nut, 3/8-16 nylock	1	71	323-7	Screw, 3/8-16 x 1-1/4	2
35	1-633109	Idler pulley 6.00 dia flat	2	72	103-3445-01	Guard, Jackshaft Belt	1
36	3234-11	Bolt, 3/8-16 x 1 whizlock	1				

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

- ✚ Apply Mobil HTS grease (or a food-grade antisieze) between the jackshaft & bearings and jackshaft & sheaves. DO NOT use a copper or nickel based antisieze.
- * For Serial Nos. 320,000 – 351,9999.
- ▲ For Serial Nos. 352,000 and higher.
- ▽ Complete deck assembly includes mower deck cutter housing assemblies and blades (see page 9).
- ★ Kit 103-3168 includes antiscalp roller, bushing, and mounting hardware.
- ◇ This assembly is now serviced by 103-2544.

60" DECK GROUP



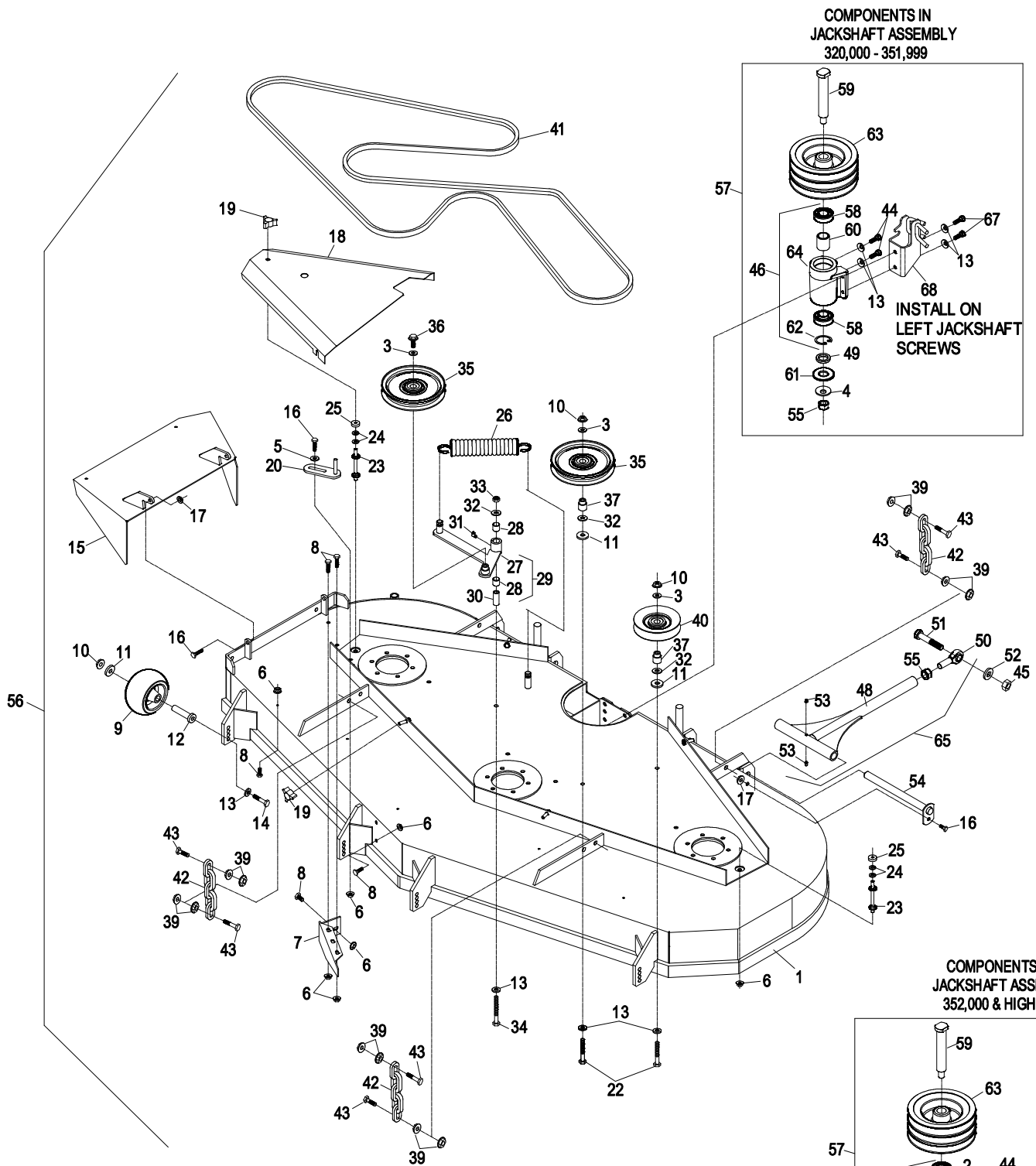
72" DECK GROUP

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-0996-01	Deck wldmt, 72	1	34	323-13	Screw, 3/8-16 x 2 3/4	1
	103-1591	Deck wldmt, 72 w/decals	1	35	1-633109	Idler pulley 6.00 dia flat	2
2▲+	103-2477	Bearing, ball	2	36	3234-11	Bolt, 3/8-16 x 1 whizlock	1
3	3256-24	Washer, 3/8 SAE	3	37	1-633456	Bushing, Idler	2
4	1-513208	Washer, disc Spring	1	38▲	103-2535	Spacer, guard bottom	1
5	1-303334	Washer, 5/16 disc spring	1	39	32128-37	Nut, 7/16-14 whizlock	16
6	32128-20	Nut, 5/16-18 whizlock	9	40	1-603805	Idler pulley 5.06 O.D. V	1
7	1-602913-01	Baffle wldmt, discharge	1	41	1-643052	Belt, blade drive 72" deck ...	1
8	322-2	Screw, 5/16-18 x 5/8	6	42	1-633447	Chain	4
9★	1-603299	Roller, antiscalp	6	43	103-1898	Screw, 7/16-14 x 1-5/8 sp ...	8
10	3290-357	Nut, 3/8-16 whizlock	8	44	323-6	Screw, 3/8-16 x 1	2
11	1-373034	Washer, pivot	8	45	3217-11	Nut, 5/8-11 hex	2
12	1-603602	Bushing, roller	6	46◇*		Asm, Jackshaft housing w/brgs	1
13	98-5975	Washer, 3/8 disc spring	13	47*	1-644092	Cutter housing complete	3
14	98-5961	Screw, 3/8-16 x 4 gr 8	6	48	103-0100-01	Strut wldmt, deck	2
15	1-642071-01	Chute, discharge 72"	1	49*	1-323533	Spacer shv/brg	1
16	322-5	Screw, 5/16-18 x 1	5	50	1-633029	Spherical rod end	2
17	3296-29	Nut, 5/16-18 nylock	4	51	327-28	Screw, 5/8-11 x 5 1/2	2
18	1-643076-01	Shield, belt 72" (RH)	1	52	3253-8	Lockwasher, 5/8 reg. spring .	2
	1-643075-01	Shield, belt 72" (LH)	1	53	302-19	Zerk, 1/4-28 straight	4
19	1-323385	Knob, belt shield	6	54	1-632199-01	Pin wldmt, deck strut	2
20	1-322110	Belt guide wldmt	1	55	3219-6	Nut, 5/8-18 hex	6
21▲	103-2534	Spacer, bearing	1	56▽	103-1590	Complete Deck Assy	1
22	323-11	Screw, 3/8-16 x 2 1/4	2	57	103-0929	Jackshaft Assy	1
23	1-303537	Stud, belt shield	2	58+*	1-513016	Bearing	2
24	3256-3	Washer 5/16 std flat	4	59+	103-0926	Jackshaft	1
25	1-323417	Washer, rubber	2	60*	1-323528	Spacer, bearing	1
26	1-633151	Spring, extension	1	61*	1-633573	Guard, brg bottom	1
27	1-632119-01	Arm wldmt, deck idler	1	62	32120-8	Snap Ring	4
28	1-513034	Bearing, pivot	2	63+	103-0924	Sheave, Jackshaft Triple	1
29	1-634244	Arm wldmt/brg sub-assy	1	64	103-0280	Housing, Jackshaft	1
30	1-603044	Bushing, idler pivot	1	65	103-0840	Strut wldmt S/A	2
31	302-40	Zerk, 1/4-20 90°	1	66	103-2544	Asm, jackshaft hsg w/ brgs .	1
32	3256-4	Washer, 3/8 std flat	3	67	323-7	Screw, 3/8-16 x 1-1/4	2
33	3296-39	Nut, 3/8-16 nylock	1	68	103-3445-01	Guard, Jackshaft Belt	1

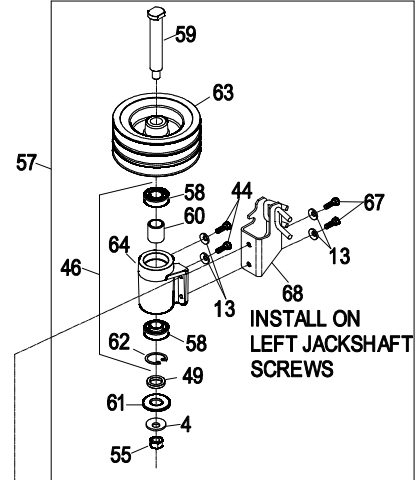
Exmark red touch up spray paint - P/N 1-850337

- ✚ Apply Mobil HTS grease (or a food-grade antisieze) between the jackshaft & bearings and jackshaft & sheaves. DO NOT use a copper or nickel based antisieze.
- * For Serial Nos. 320,000 – 351,9999.
- ▲ For Serial Nos. 352,000 and higher.
- ▽ Complete deck assembly includes mower deck cutter housing assemblies and blades (see page 9).
- ★ Kit 103-3168 includes antiscalp roller, bushing, and mounting hardware.
- ◇ This assembly is now serviced by 103-2544.

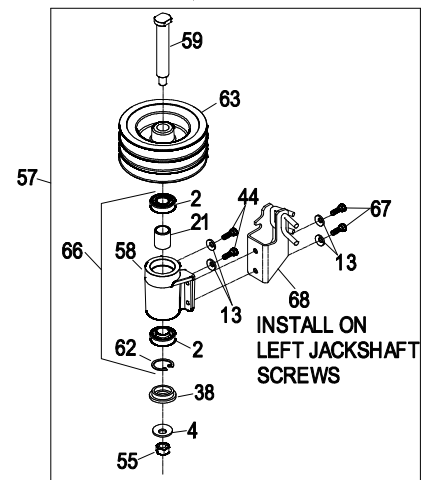
72" DECK GROUP



COMPONENTS IN JACKSHAFT ASSEMBLY 320,000 - 351,999



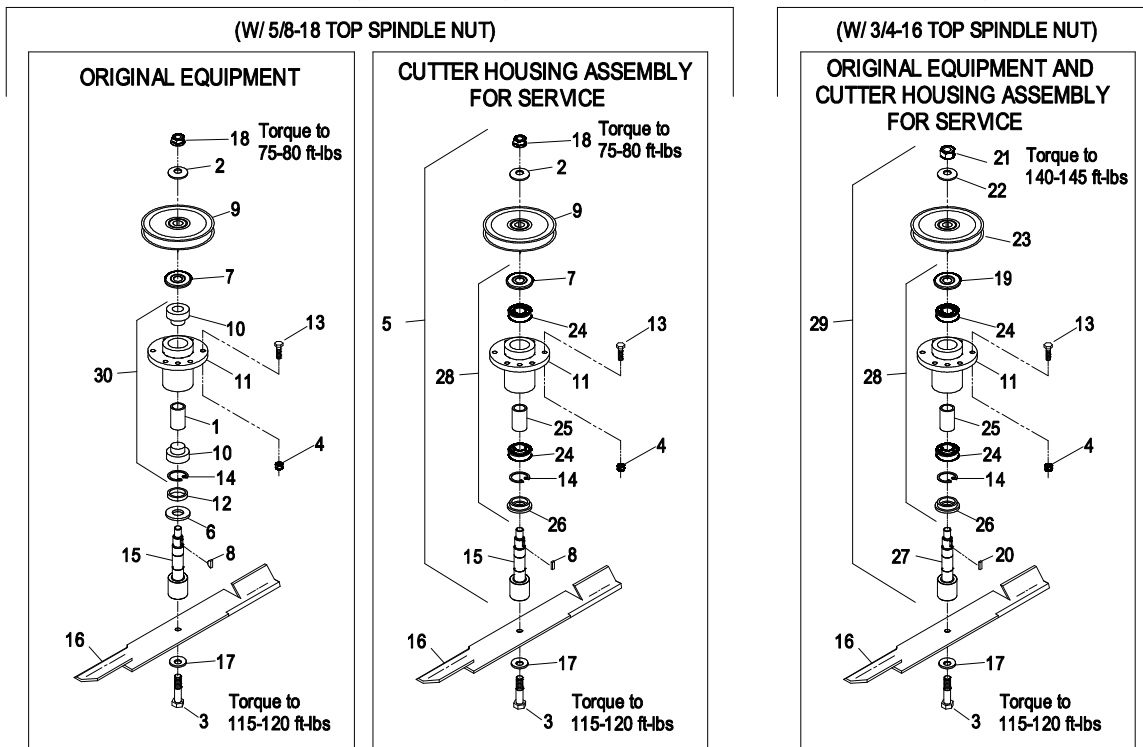
COMPONENTS IN JACKSHAFT ASSEMBLY 352,000 & HIGHER



MOWER DECK CUTTER HOUSINGS

SERIAL NOS. 320,000 THRU 351,999

SERIAL NOS. 352,000 & HIGHER



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	1-323533	Spacer, shv/brg	3	16(cont)	103-1580	Blade, solid (60 deck).....	3
2	1-513208	Washer, disc spring.....	3		103-2531	Blade, notched (72 deck)	3
3	103-0862	Screw, 5/8-18x2 3/4 gr 8	3		103-2511	Blade, low lift (72 deck)	3
4	3296-39	Nut, 3/8-16 nyloc	18	◆	103-2521	Blade, mulching (72 deck).....	3
5■	103-1140	Cutter hsg complete 60	3		103-1581	Blade, solid (72 deck).....	3
■	1-644092	Cutter housing complete 72 ..	3	17	103-0865	Washer, disc spring	3
6	1-633573	Guard, Brg bottom.....	3	18	32128-58	Nut, Flange 5/8-18.....	3
7	103-1331	Guard, bearing top.....	3	19	103-1330	Guard, bearing top	3
8❖	3257-32	Key, # 61 Woodruff.....	3	20	103-2982	Key, 1/4x3/16x3/4.....	3
❖	10-8040	Key, 3/16 sq x 3/4.....	3	21	3217-46	Nut, HH 3/4-16 heavy.....	3
9+	1-633701	Sheave, blade drive 60.....	3	22	103-2802	Washer, disc spring 3/4	3
+	1-643269	Sheave, blade drive 72.....	3	23+	103-2794	Sheave, blade drive 60.....	3
10+	1-513016	Bearing	8	+	103-2795	Sheave, blade drive 72.....	3
11	1-323532	Housing ,bearing	3	24+	103-2477	Bearing, ball	8
12	1-323528	Spacer, bearing	3	25	103-2534	Spacer, bearing	3
13	323-7	Screw, HH cap 3/8x1 1/4.....	18	26	103-2535	Spacer, guard bottom.....	3
14	32120-8	Snap Ring.....	3	27+	103-2785	Spindle	3
15❖+	103-0584	Spindle.....	3	28	103-2547	Cutter housing assembly.....	3
❖+	103-2326	Spindle.....	3	29■	103-3200	Cutter Hsg Complete 60.....	3
16	103-2530	Blade, notched (60 deck)	3	■	103-3206	Cutter Hsg Complete 72.....	3
	103-2510	Blade, low lift (60 deck)	3	30♠		Housing w/ring, spacer, & brg .3	
◆	103-0301	Blade, mulching (60 deck)....	3				

◆ Requires installation of Micro-Mulch accessory for proper mulching. Mulch kit P/N MK604, or MK724

❖ This component required if keyway is for a woodruff key, S/N 330,786 and lower.

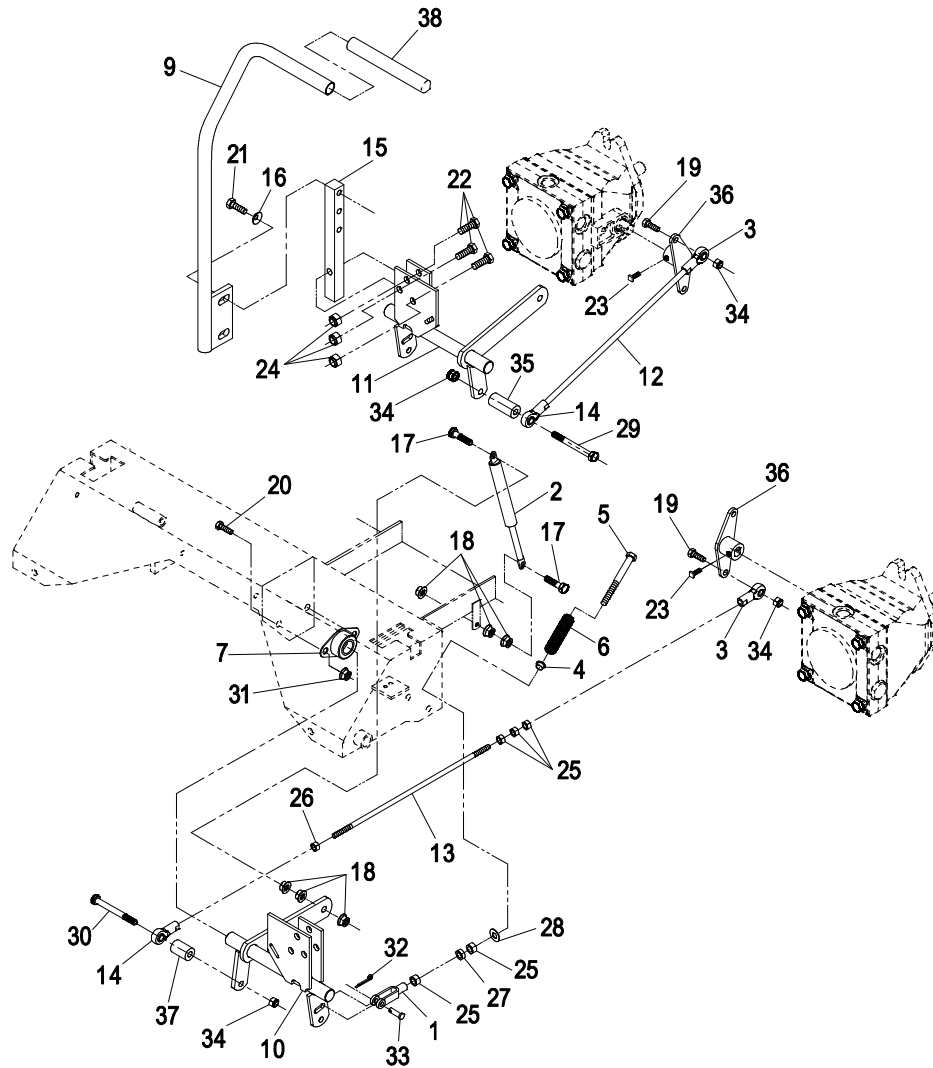
❖ This component required if keyway is for a square key, S/N 330,787 – 351,999.

✚ Apply Mobil HTS grease (or a food-grade antisieze) between the spindles & bearings and spindles & sheaves. DO NOT use a copper or nickel based antisieze.

♠ This assembly is now serviced by kit number 103-2547.

■ Complete cutter housings also include Items 3 & 17.

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

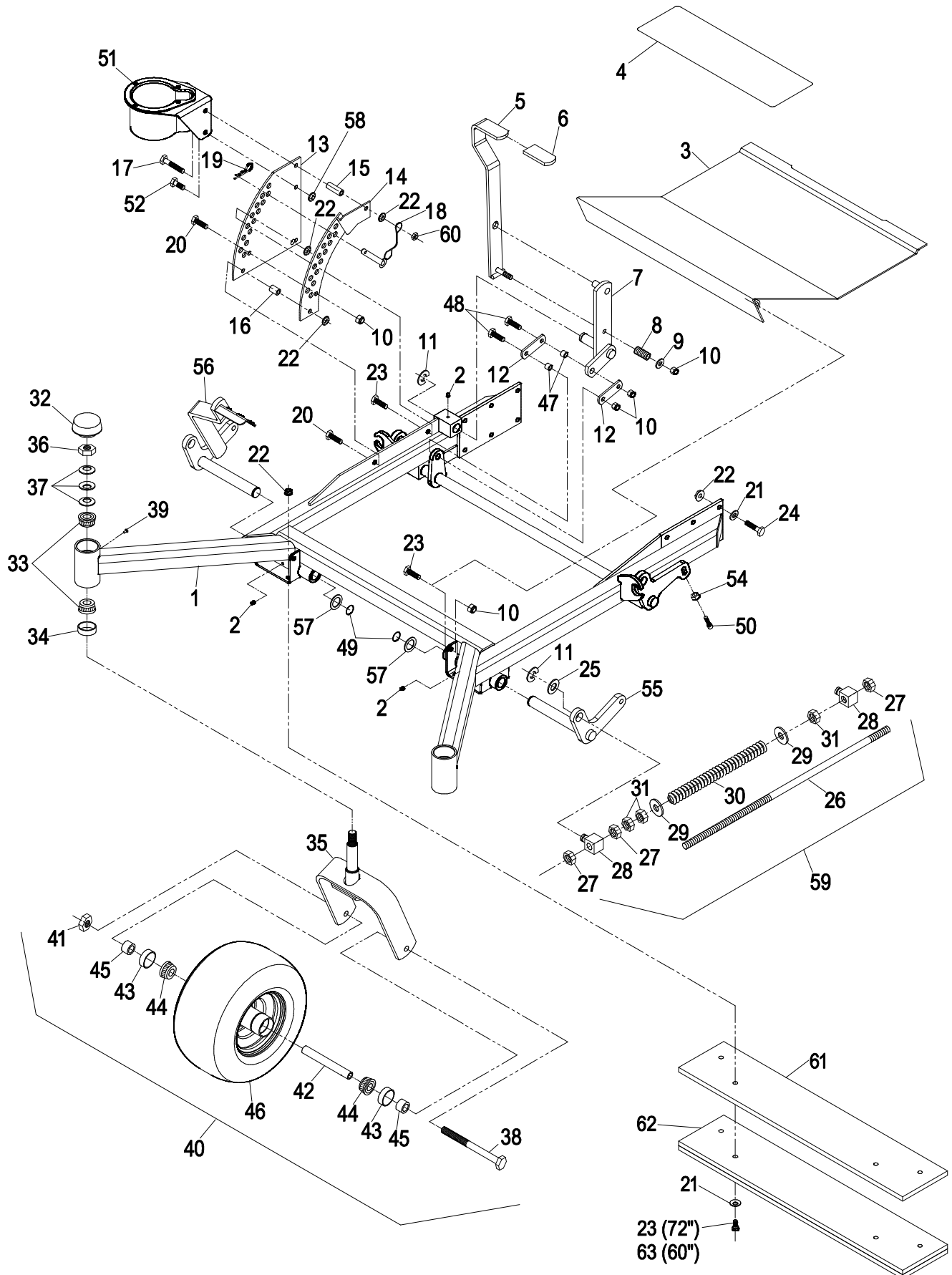
◇ Use Pro-Lock, Nut Type (P/N 1-840022, .5ml tube) on setscrews

FRONT FRAME GROUP

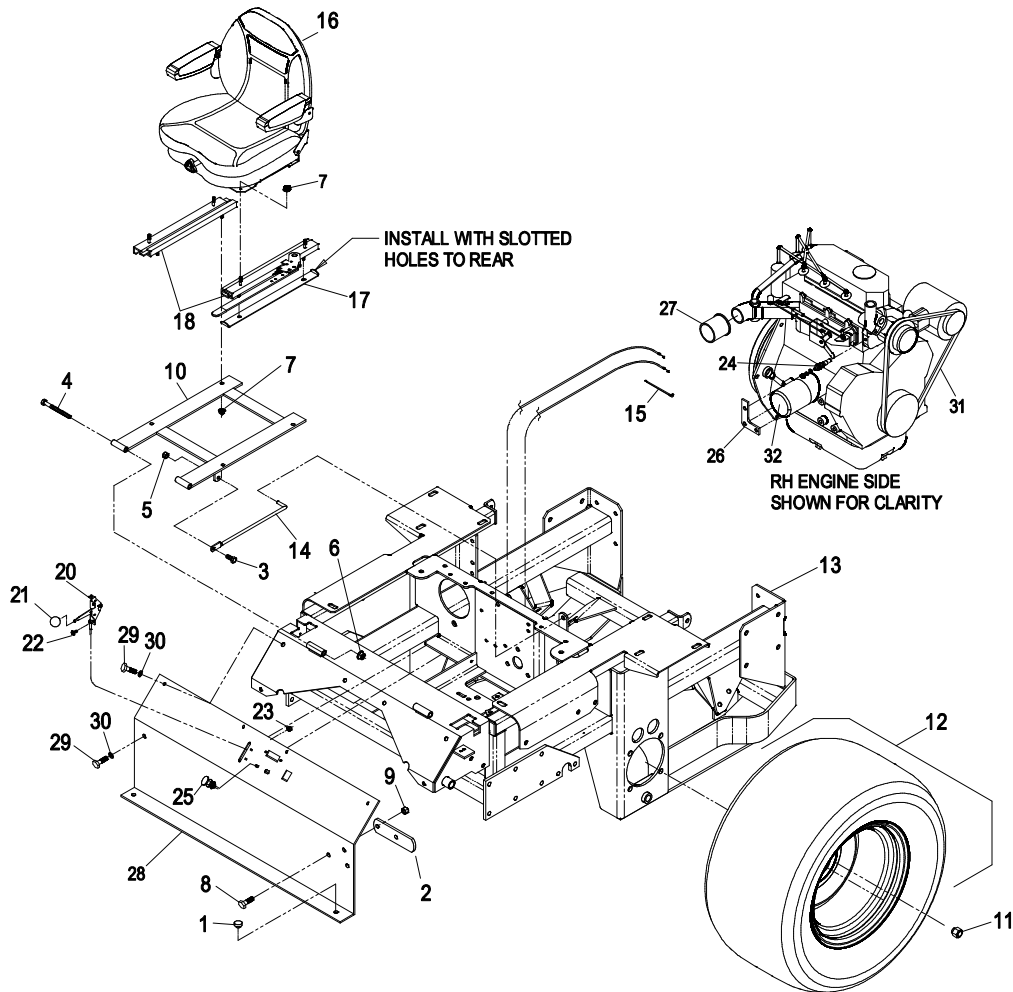
Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-2478-01	Frame wldmt, front 60".....	1	33	1-543509	Bearing cone,tapered roller	4
	103-2479-01	Frame wldmt, front 72".....	1		1-543508	Bearing cup, tapered roller.	4
2	302-19	Zerk, 1/4-28 straight	5	34	1-543511	Seal, grease.....	2
3	103-1490-01	Floorpan	1	35	103-1474-01	Caster wldmt.....	2
4	1-633553	Pad, anti skid	3	36	3296-51	Nut, 3/4-10 nyloc.....	2
5	103-2084	Lever w/grip	1	37	1-633508	Washer, spring disk.....	6
	103-2083-03	Lever wldmt, lift	1	38	325-39	Screw, 1/2-13 x 9 1/2	2
6	1-633295	Grip, lift lever	1	39	1-811010	Plug	2
7	103-2064-03	Arm wldmt, deck lift.....	1	40	103-0069	Caster wheel assy	2
8	1-633325	Spring, compression.....	1	41	3296-23	Nut, 1/2-13 nyloc	2
9	3256-24	Washer, 3/8 SAE flat.....	1	42	1-633959	Spacer, front caster	2
10	3296-39	Nut, nyloc 3/8-16.....	6	43	103-0063	Seal, bearing.....	4
11	32151-103	E-ring	5	44	1-633585	Bearing cone.....	4
12	1-633068	Arm, deck lift.....	2	45	1-633581	Spacer, bearing.....	4
13	1-633889-01	Plate, deck lift.....	1	46	103-0065	Wheel & tire assy	2
14	1-632899-01	Plate wldmt, deck lift.....	1		1-523009	Tire, 13x6.5-6 4 ply	2
15	1-633082	Bushing, lift lever	1		103-0071	Wheel.....	2
16	1-633080	Bushing, lift lever	1		1-633584	Bearing cup.....	4
17	323-13	Screw, 3/8-16 x 2 3/4.....	1	47	103-1918	Bushing	2
18	1-633097	Hitch pin w/lanyard	1	48	323-29	Screw, 3/8-16 x 1 3/8.....	2
19	1-806005	Hairpin cotter (serv only) ...	1	49	32151-29	Ring, retaining.....	2
20	323-9	Screw, 3/8-16 x 1 3/4.....	2	50	3274-18	Screw, 5/16-18 x 1 1/4	2
21	98-5975	Washer, 3/8 disc spring.....	16	51	103-2437	Cup holder assy	1
22	3290-357	Nut, whizlock 3/8-16	19	52	321-2	Screw, 1/4-20 x 1/2	1
23	323-6	Screw, 3/8-16 x 1.....	7	54	3218-2	Jam nut, 5/16-18.....	2
24	323-7	Screw, 3/8-16X1 1/4	12	55	103-1955-01	Weldmt, front lift shaft (LH)	1
25	3256-29	Washer, 7/8 SAE flat.	4	56	103-2013-01	Weldmt, front lift w/lever(RH)	1
26	1-633096	Rod, deck lift.....	2	57	1-523157	Washer, spacer.....	2
27	3217-11	Nut, 5/8-11 regular.....	6	58	32128-33	Nut, whizlock 1/4-20	1
28	1-633441	Swivel, deck mount.....	4	59	103-2047	Asm, deck lift spring.....	1
29	3256-7	Washer, 5/8 std flat	4	60	3296-59	Nut, nyloc 3/8-16 (light thin)	1
30	1-643015	Spring, deck support	2	61	100-2333-01	Weight bar, 60" & 72"	1
31	3218-6	Jam nut, 5/8-11.....	6	62	96-4646-01	Weight bar, (60").....	1
32	1-543513	Cap, grease	2	63	323-8	Screw, 3/8-16 x 1 1/2 (60") ...	4

Exmark red touch up spray paint - P/N 850337

FRONT FRAME GROUP



MAIN FRAME GROUP



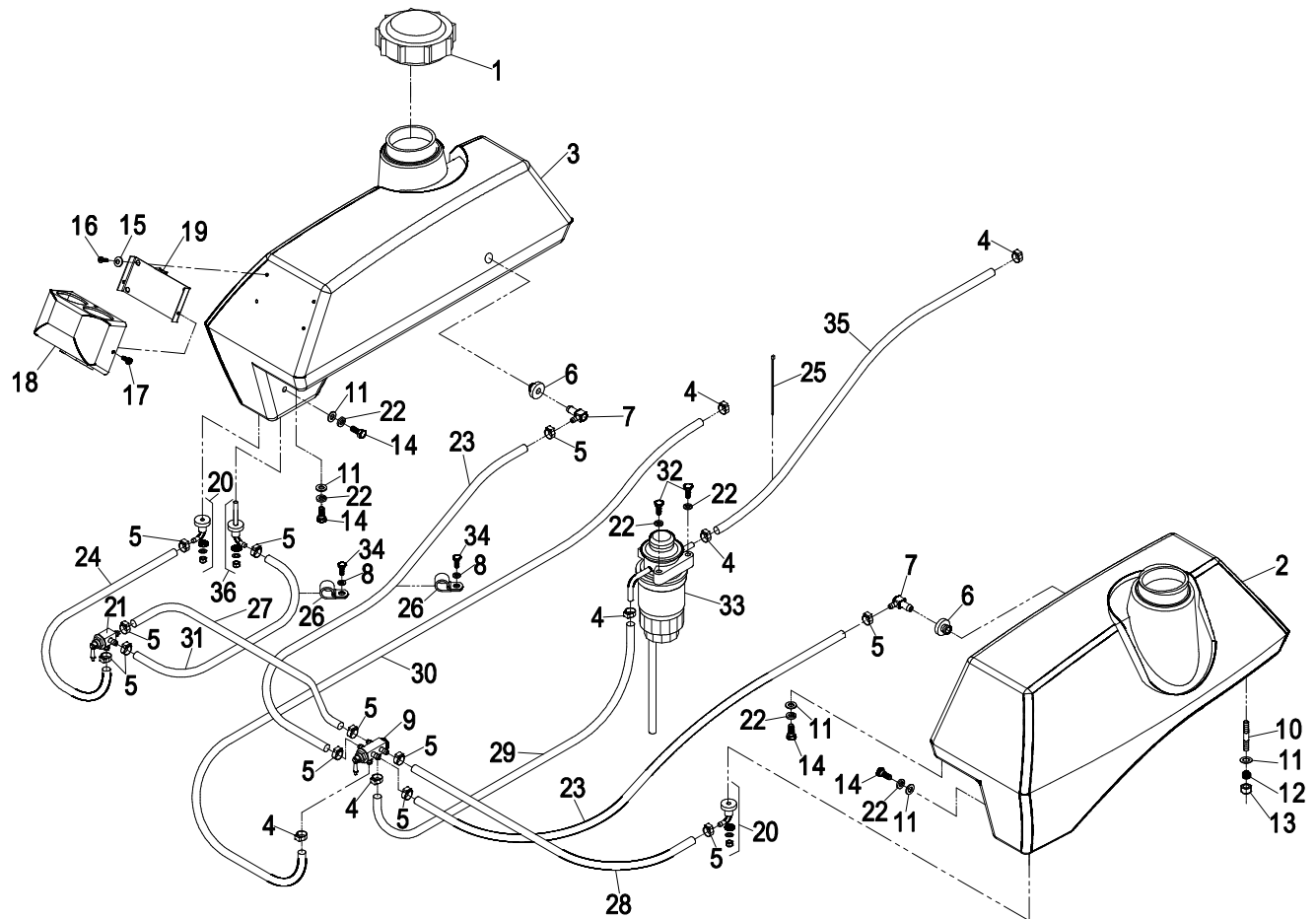
Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	1-513658	Bumper	2		1-631846	Kit, Damper w/hardware.....	1
2	1-633964-03	Stop, Park Brake.....	1		1-631847	Kit, Rollers,bumprs&hrdwre ..	1
3	322-5	Screw, 5/16-18 x 1.....	1		1-631848	Kit, Spring,Cable & hardware	1
4	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.

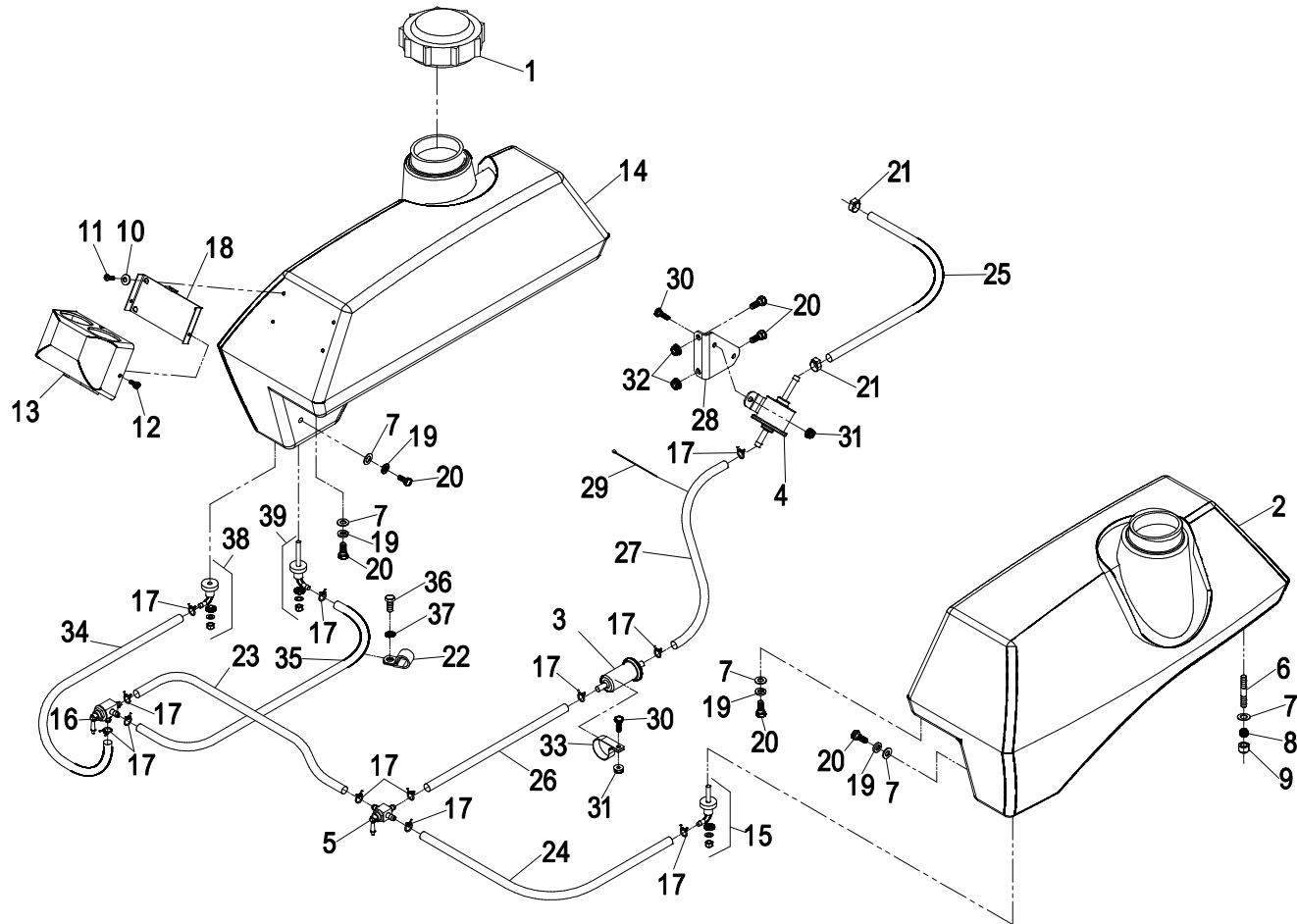
✕ Refer to Engine Owner's Manual.

▽ 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.

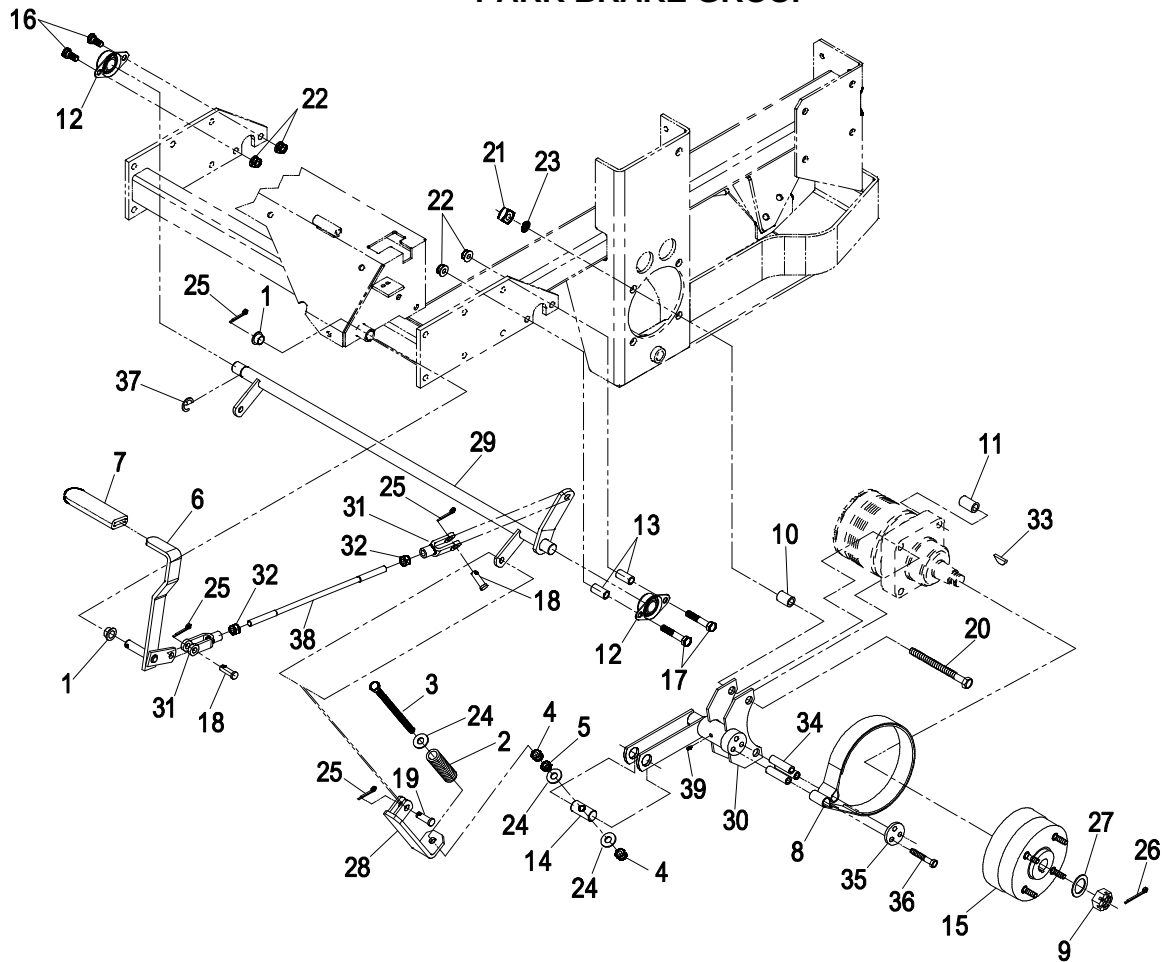
31 HP GAS FUEL GROUP



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

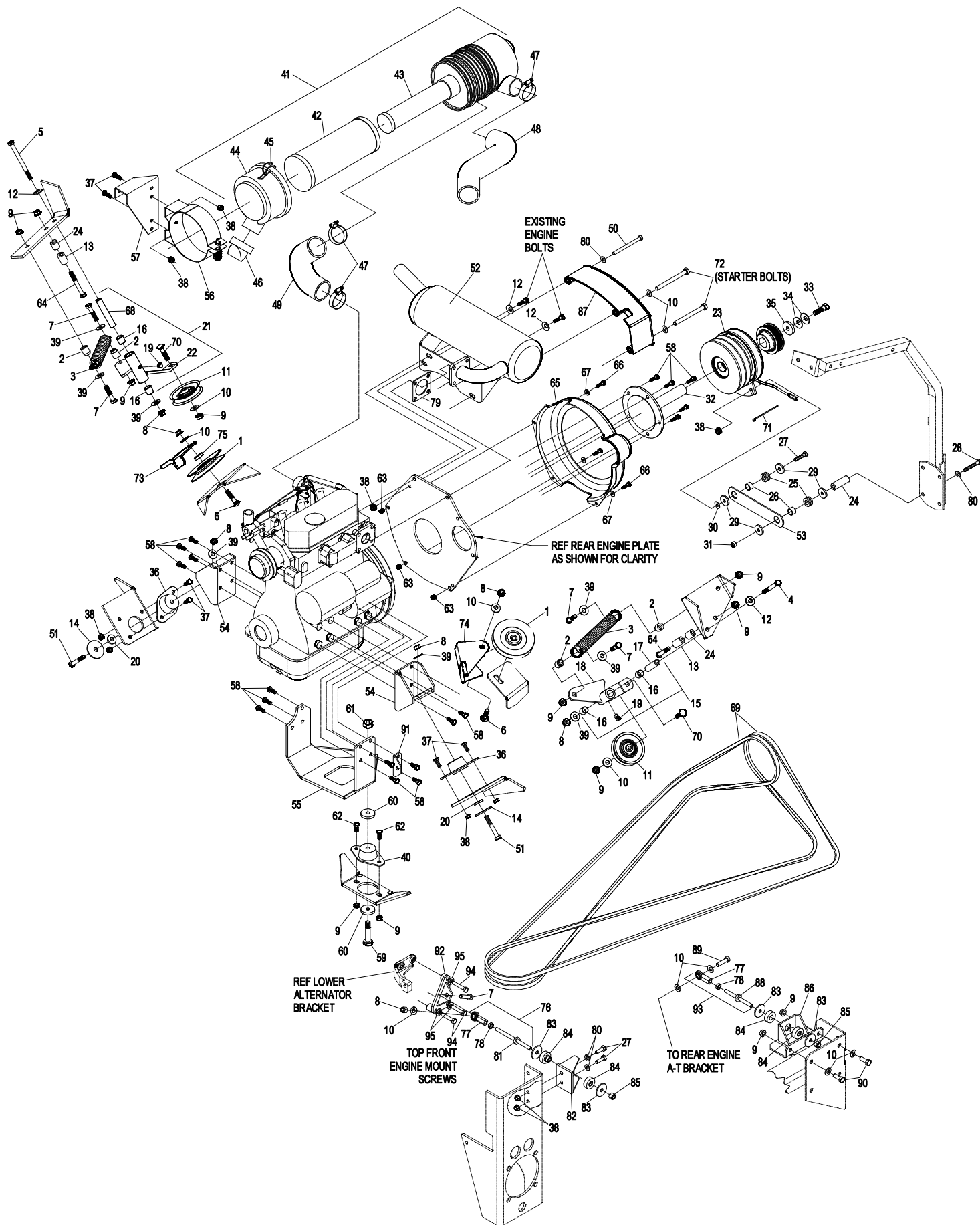
COMMON ENGINE DECK GROUP

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	58V	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	89V	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	94V	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

V 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



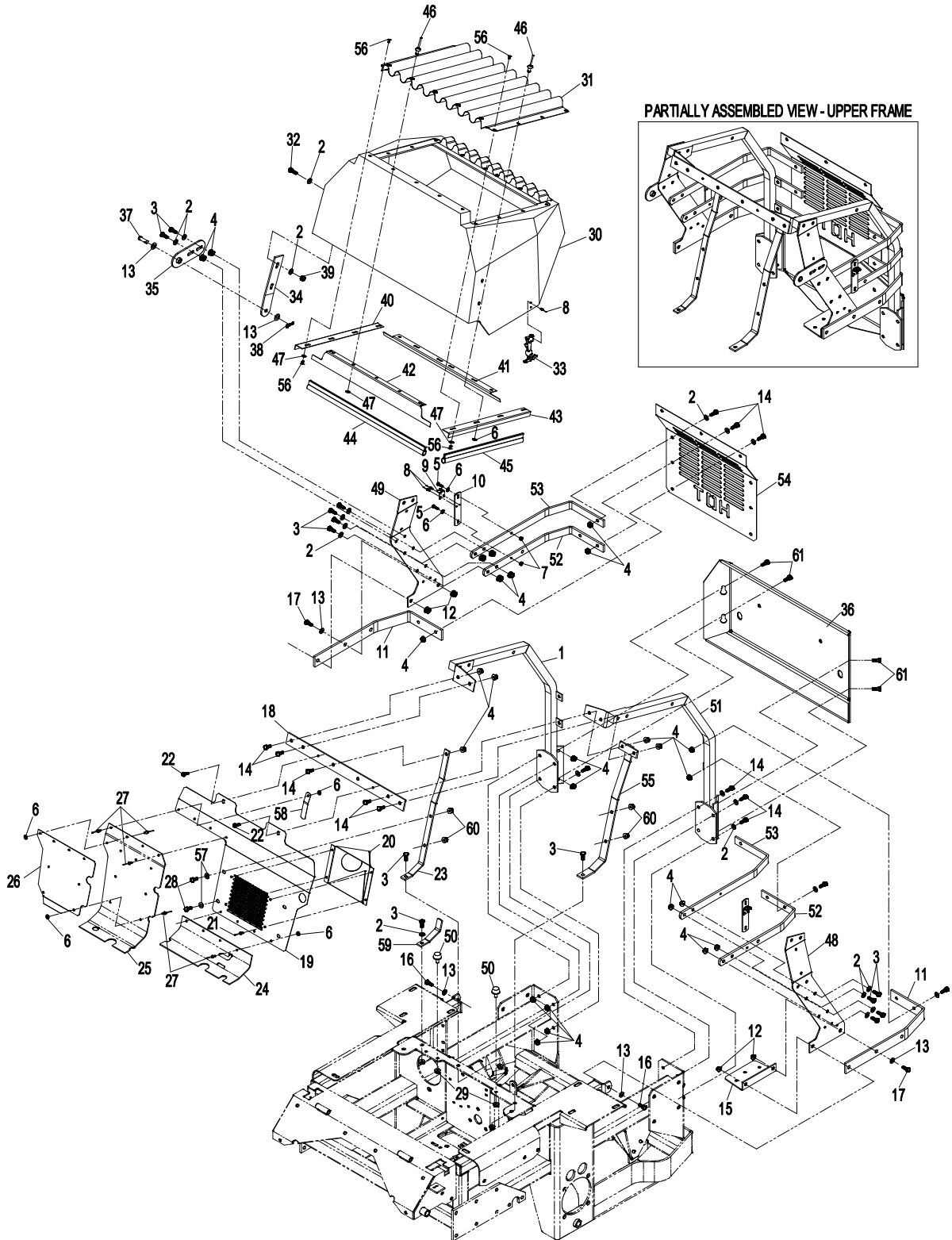
UPPER FRAME GROUP

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	21	44	1-643187	Seal, Trim 20"	2
15	103-2603-03	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



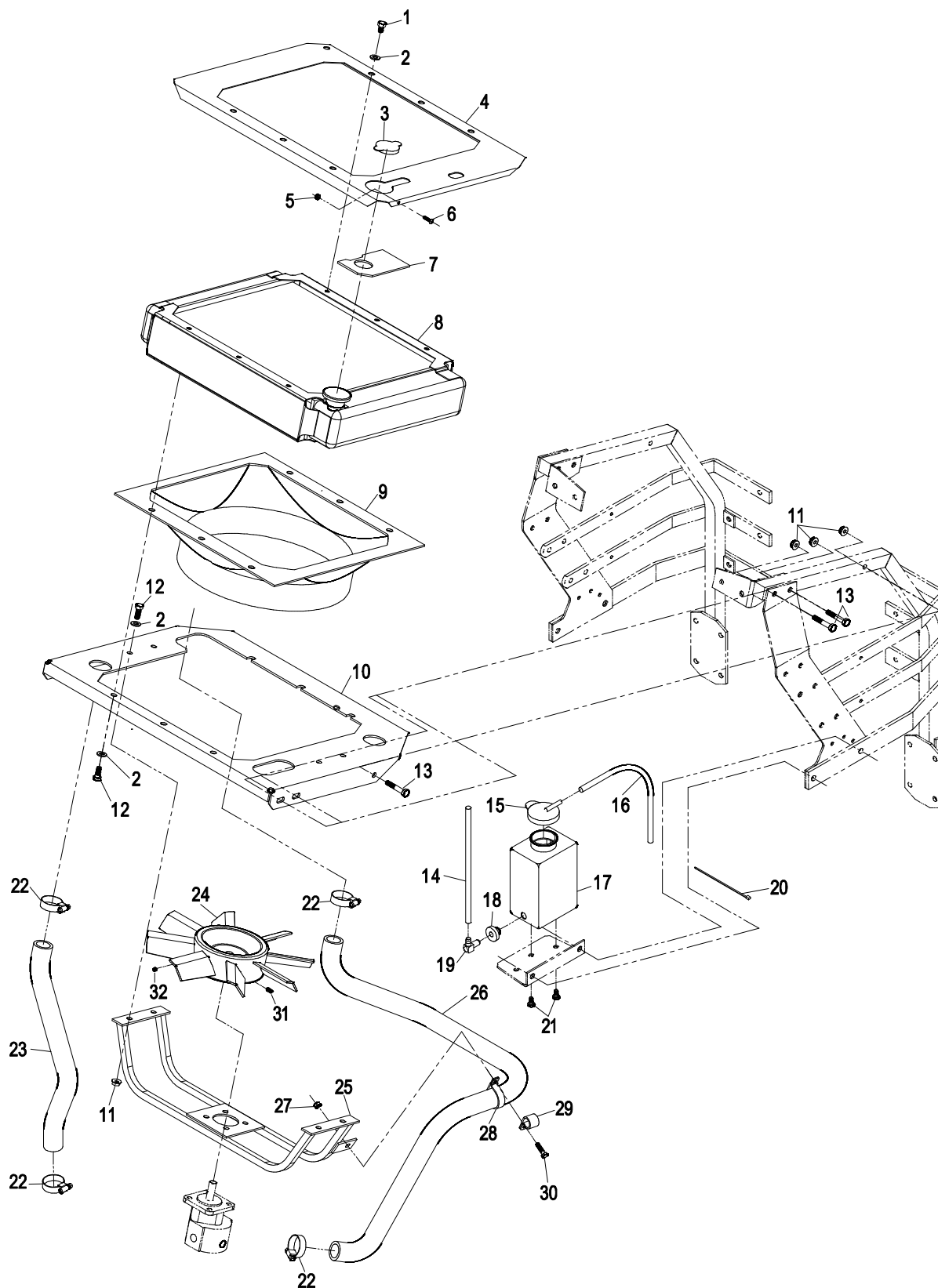
ENGINE COOLING GROUP

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

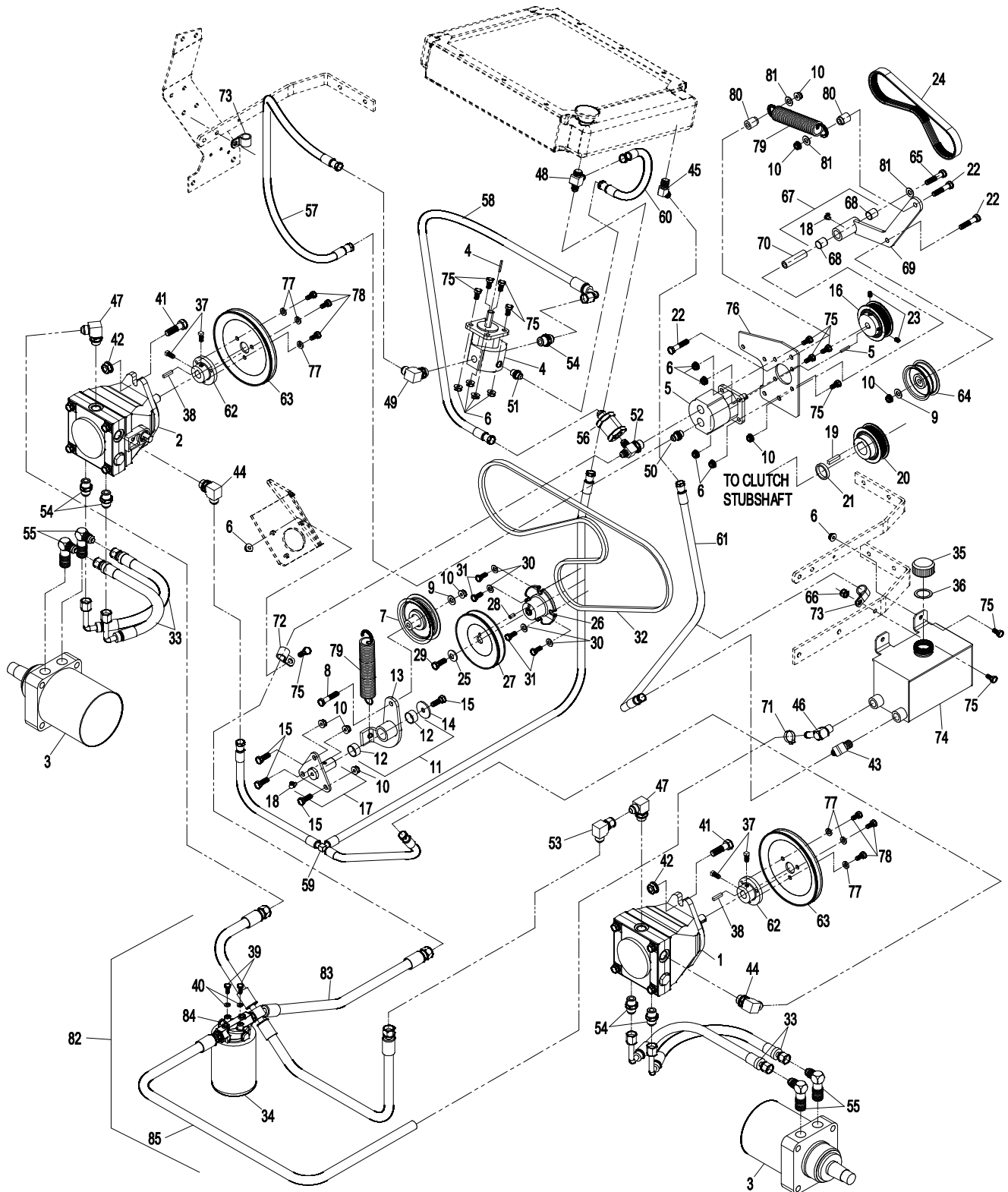
Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	103-0989	Pump, hydro LH.....	1	45∇	103-2151	Elbow,45°9/16JICx3/8NPT	1
2	103-0990	Pump, hydro RH	1		103-1020	O-Ring (37° flare #6)	1
	100-6110	Kit, seal service 21L	1	46∇	103-2152	Elbow,90°1/2T x 1/2NPT	1
	100-2669	Kit, input shaft 21L.....	1	47	103-2153	Elbow,90°3/4JICx3/4O-rq	2
	103-2670	Kit, thrust bearing 21L	1		1-603992	O-Ring (37° flare #8)	1
	103-2668	Kit, cylinder block 21L.....	1		1-603920	O-Ring (SAE #8).....	1
	103-2667	Kit, valve plate 21L	1	48∇	103-2154	Fitting, run tee 3/8"	1
3	103-2489	Motor, wheel drive	2		103-1020	O-Ring (37° flare #6)	1
	1-000099	Kit, seal.....	1	49	103-2155	Elbow,90°9/16JICx9/16O-rq ...	1
	1-000139	Kit, bearing	1		103-1020	O-Ring (37° flare #6)	1
4	103-0893	Motor, hydraulic fan	1		1-603921	O-Ring (SAE #6).....	1
	103-1865	Kit,seal service (fan motor)	1	50	103-2156	Fitting, strt9/16JICx9/16O-rq .	1
	32150-1	Key, fan pump or motor	1		103-1020	O-Ring (37° flare #6)	1
5	103-1325	Pump, hydraulic fan.....	1		1-603921	O-Ring (SAE #6).....	1
	103-1866	Kit,seal service (fan pump)	1	51	103-2157	Fitting, strt9/16JICx7/16O-rq ..	1
	32150-1	Key, fan pump or motor	1		103-1020	O-Ring (37° flare #6)	1
6	32128-20	Nut, whizlock 5/16-18	10		1-603923	O-Ring (SAE #4).....	1
7	103-0049	Sheave, hydro pump idler.....	1	52	103-2159	Fitting, run tee 3/4"	1
8	323-12	Screw, 3/8-16 x 2 1/2.....	1		1-603992	O-Ring (37° flare #8)	2
9	3256-24	Washer, 3/8 SAE	2		1-603920	O-Ring (SAE #8).....	1
10	3290-357	Nut, whizlock 3/8-16	8	53	103-2315	Elbow,90°3/4JICx3/4 Swvl	1
11	103-1448	Asm, tightener	1		1-603992	O-Ring (37° flare #8)	1
12	1-323729	Bearing, sleeve.....	2	54	1-603990	Fitting, strt 3/4JICx3/4O-rq	5
13	103-1415-03	Tightener	1		1-603992	O-Ring (37° flare #8)	1
14	93-6099	Washer, 3/8 x 1.50 O.D.	1		1-603920	O-Ring (SAE #8).....	1
15	323-4	Screw, 3/8-16 x 3/4.....	4	55	1-633605	Elbow, 90° 3/4JICx7/8O-rq	4
16	103-1338	Sheave, fan pump driven.....	1		1-603992	O-Ring (37° flare #8)	1
17	103-1478-03	Tightener, spindle	1		1-603919	O-Ring (SAE #10).....	1
18	302-40	Zerk, 90° 1/4-28.....	2	56	103-3110	Filter, Hydraulic inline	1
19	13-2840	Key, square 1/4 x 1 1/4.....	1	57	103-2148	Hose, hi-pressure fan pump ...	1
20	103-1339	Sheave, fan pump drive.....	1	58	103-3114	Hose, fan motor return	1
21	103-1422	Spacer, fan pump drive.....	1	59	103-2172	Hose, pump case drain	1
22	323-9	Screw, 3/8-16 x 1 3/4.....	3	60	103-2173	Hose, fan case drain	1
23◇	3246-6	Setscrew, 5/16 x 3/4	2	61	103-2174	Hose, tank return.....	1
24	103-1297	Belt, fan pump drive.....	1	62	103-1471	Hub, hydro pump sheave	2
25	98-5975	Washer, disc spring 3/8.....	1	63	103-1472	Sheave, hydro pump	2
26	103-1421	Hub, engine sheave.....	1	64	1-633167	Sheave, fan pump idler	1
27	103-1426	Sheave, engine.....	1	65	323-14	Screw, 3/8-16 x 3.....	1
28	103-1459	Pin, spring roll 1/4	1	66	3296-29	Nut, Nyloc 5/16-18.....	1
29	323-6	Screw, 3/8-16 x 1	1	67	103-1457	Asm, fan pump tightener	1
30	3256-23	Washer, 5/16 SAE	4	68	1-513034	Bearing, sleeve.....	2
31	33114-020	Screw, M8-1.25 x 20	4	69	103-1417-03	Tightener, fan pump.....	1
32	103-2600	Belt, hydro pump drive.....	1	70	1-603384	Bushing, tightener pivot.....	1
33	103-0973	Hose, wheel motor (72")	4	71	103-2104	Clamp,hose .89 max dia.....	1
	103-0972	Hose, wheel motor (60")	4	72	1-643312	Clamp, 1.00	1
34	103-2146	Element, hydraulic oil filter.....	1	73	1-633396	Clamp, .69	2
35	1-513167	Cap, hydraulic tank	1	74	103-2149-03	Tank, hydraulic reservoir.....	1
36	1-523103	Gasket, tank cap	1	75	322-4	Screw, 5/16-18 x 7/8	11
37◇	1-803050	Setscrew, 5/16-18 x 3/4	4	76	103-1299-03	Plate, fan pump mounting	1
38	103-2739	Key, 5mm x 5mm x 32mm	2	77	1-805005	Lockwasher, 5/16	6
39	321-3.	Screw, 1/4-20 x 5/8	2	78	322-2	Screw, 5/16-18 x 5/8.....	6
40	1-805004	Lockwasher, 1/4	2	79	1-603414	Spring, tightener	2
41	325-5	Screw, 1/2-13 x 1 1/4	4	80	103-1575	Spacer, fan pump spring.....	2
42	32128-49	Nut, whizlock 1/2-13.....	4	81	3256-4	Washer, 3/8 std	3
43∇	103-1012	Elbow,90°9/16JICx3/8NPT.....	1	82*	103-1709	Asm, charge hose	1
44	103-1014	Elbow,90°9/16JICx3/4O-rq.....	2	83	103-2269	Asm, pump inlet.....	1
	1-603920	O-Ring (SAE #8)	1	84	103-2259	Filter head	1
				85	103-2268	Asm, filter inlet hose	1

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

∇ Use Teflon pipe sealant on pipe threads in reservoir and cooler.

* Charge hose assembly includes items 83, 84, & 85 only.
Exmark black touch up spray paint - gloss black

HYDRAULIC GROUP



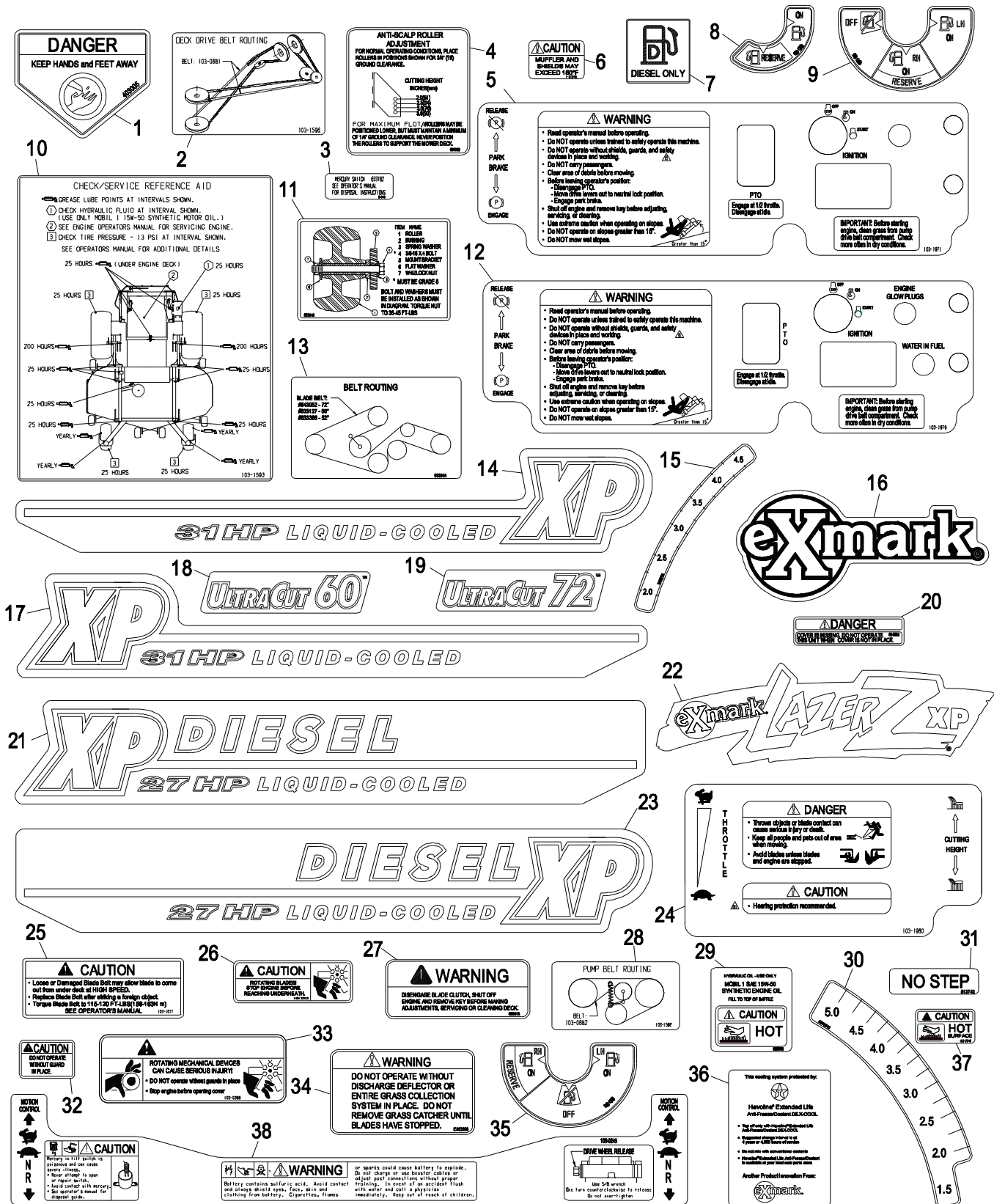
DECAL GROUP

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	1-403005	Decal,Danger.....	2	21◇	103-1163	Decal,Hood 27HP XP LH...	1
2	103-1596	Decal,Belt routing	1	22	103-1168	Decal,Lazer XP swash.....	1
3	1-643401	Decal,Mercury switch	1	23◇	103-1164	Decal,Hood 27HP XP RH ..	1
4	1-633922	Decal,Anti-scalp.....	1	24	103-1980	Decal,Console	1
5♦	103-1971	Decal,Console	1	25	103-1077	Decal,Bolt torque	1
6	1-513746	Decal,Muffler	1	26	1-643253	Decal,Radiator fan	2
7◇	103-1636	Decal,Diesel only.....	2	27	1-633313	Decal,Warning.....	1
8	103-1365	Decal,Fuel valve reserve ...	1	28	103-1592	Decal,Belt routing XP.....	1
9◇	103-1505	Decal,Fuel valve XPD.....	1	29	1-523552	Decal,Hyd tank/hot surface	1
10	103-1593	Decal,Check service.....	1	30	1-633345	Decal,Deck height.....	1
11	1-323540	Decal,Roller mounting	1	31	1-513742	Decal,No step	2
12◇	103-1979	Decal,Console	1	32	1-513748	Decal,Guard.....	1
13	1-643222	Decal,Belt routing	1	33	103-0368	Decal,Rotating devices	1
14♦	103-1161	Decal,Hood 31HP XP RH..	1	34	1-303508	Decal,Discharge warning.....	1
15	1-633706	Decal,Deck height	1	35♦	103-1506	Decal,Fuel valve XPG	1
16	103-1983	Decal,Exmark logo	1	36	103-0223	Decal,Havoline coolant	1
17♦	103-1162	Decal,Hood 31HP XP LH ..	1	37	103-2076	Decal,Caution hot surface .	2
18	103-1146	Decal,Ultracut 60	1	38	103-0245	Decal,Top console	1
19	103-1147	Decal,Ultracut 72	1		103-1649	Decal kit, XP	1
20	98-5954	Decal,Missing cover	3				

◇ 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.

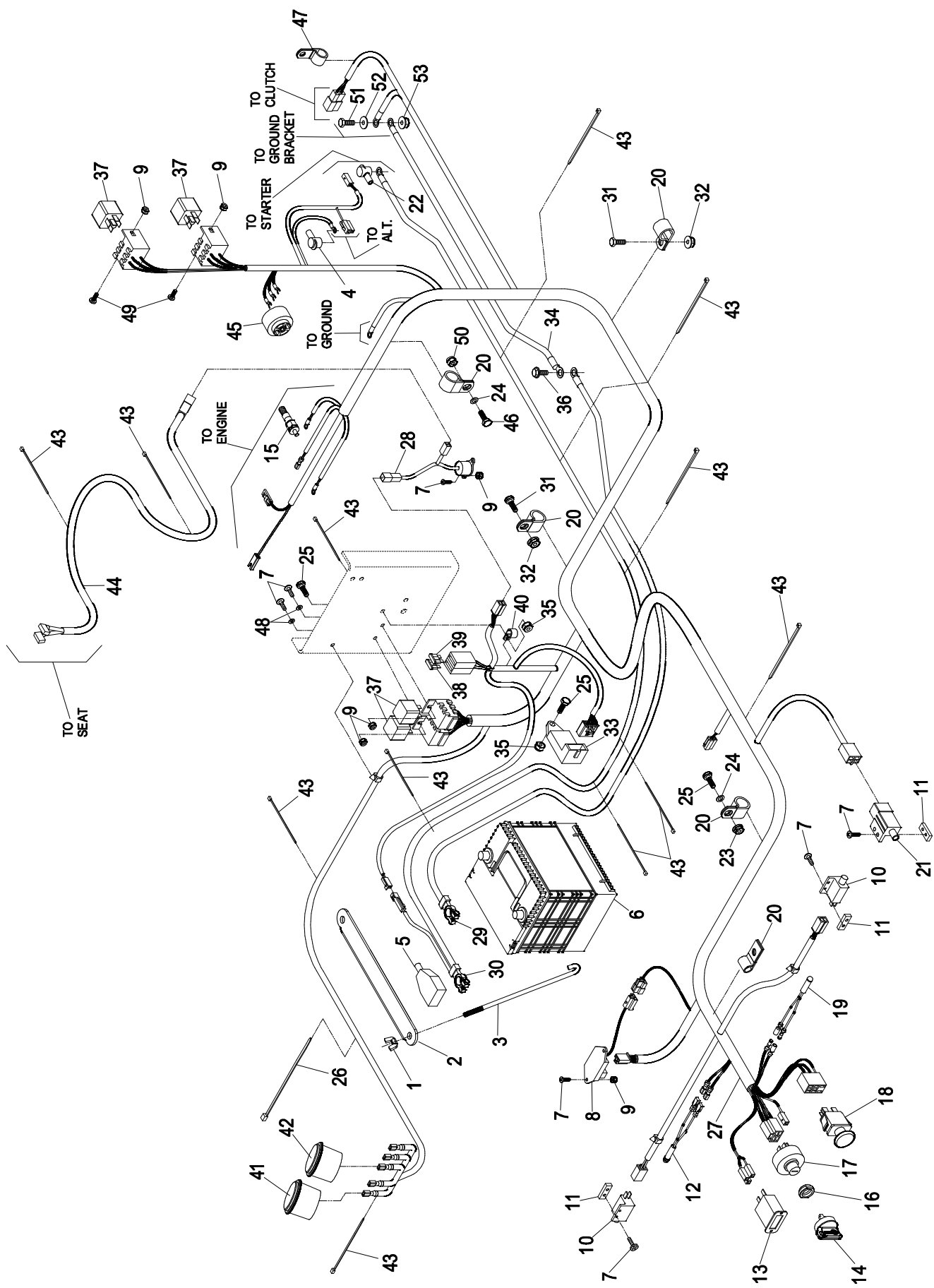
☆ 12 Volt battery, BCI group size 26, 550 cca. For warranty and/or direct replacement contact Douglas Battery at 1-800-DOUGLAS.

⊗ Refer to Engine Owner's Manual.

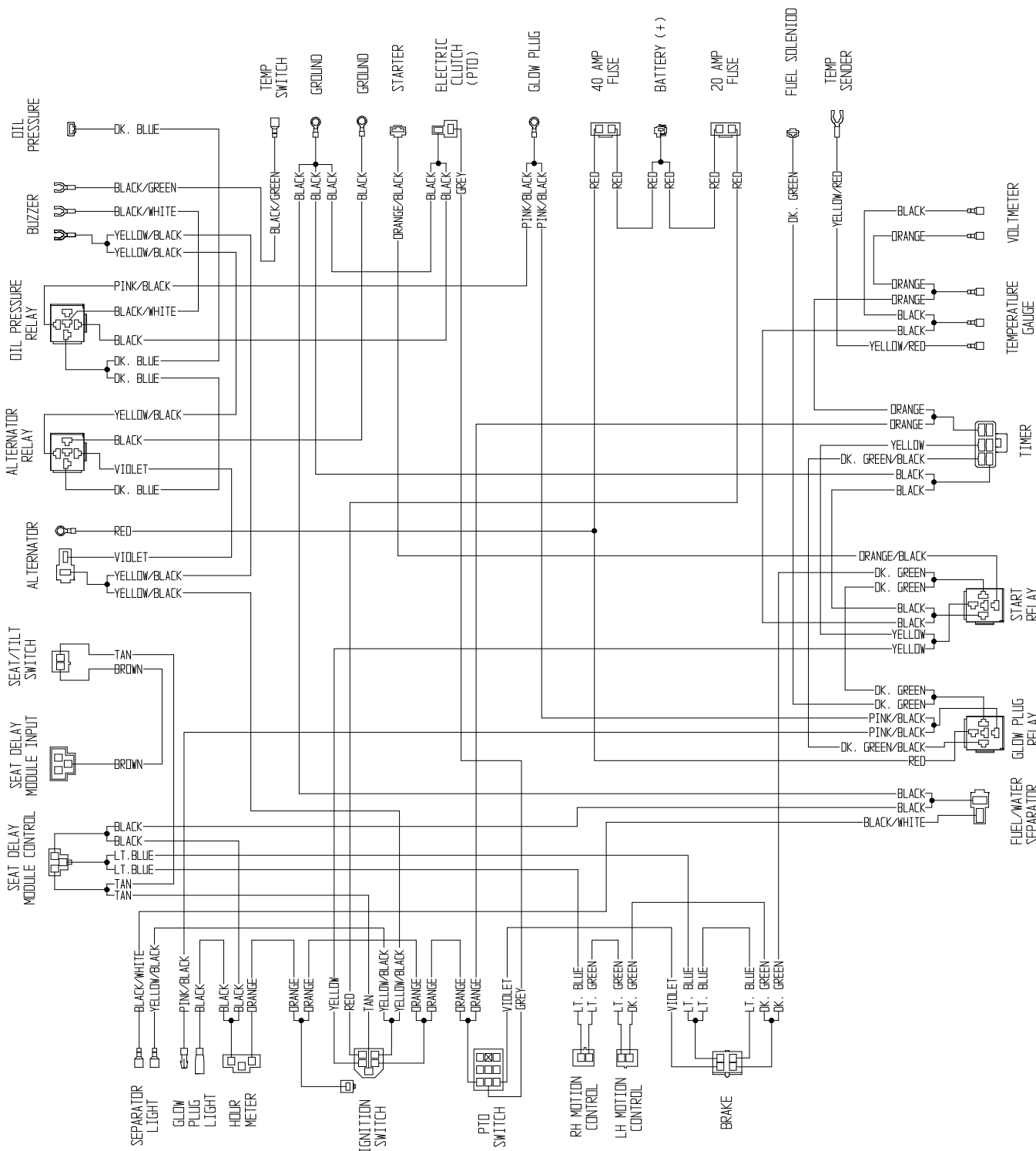
* Starter Cable includes insulators 103-1340 & 103-1420.

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

27 HP DIESEL ELECTRICAL GROUP

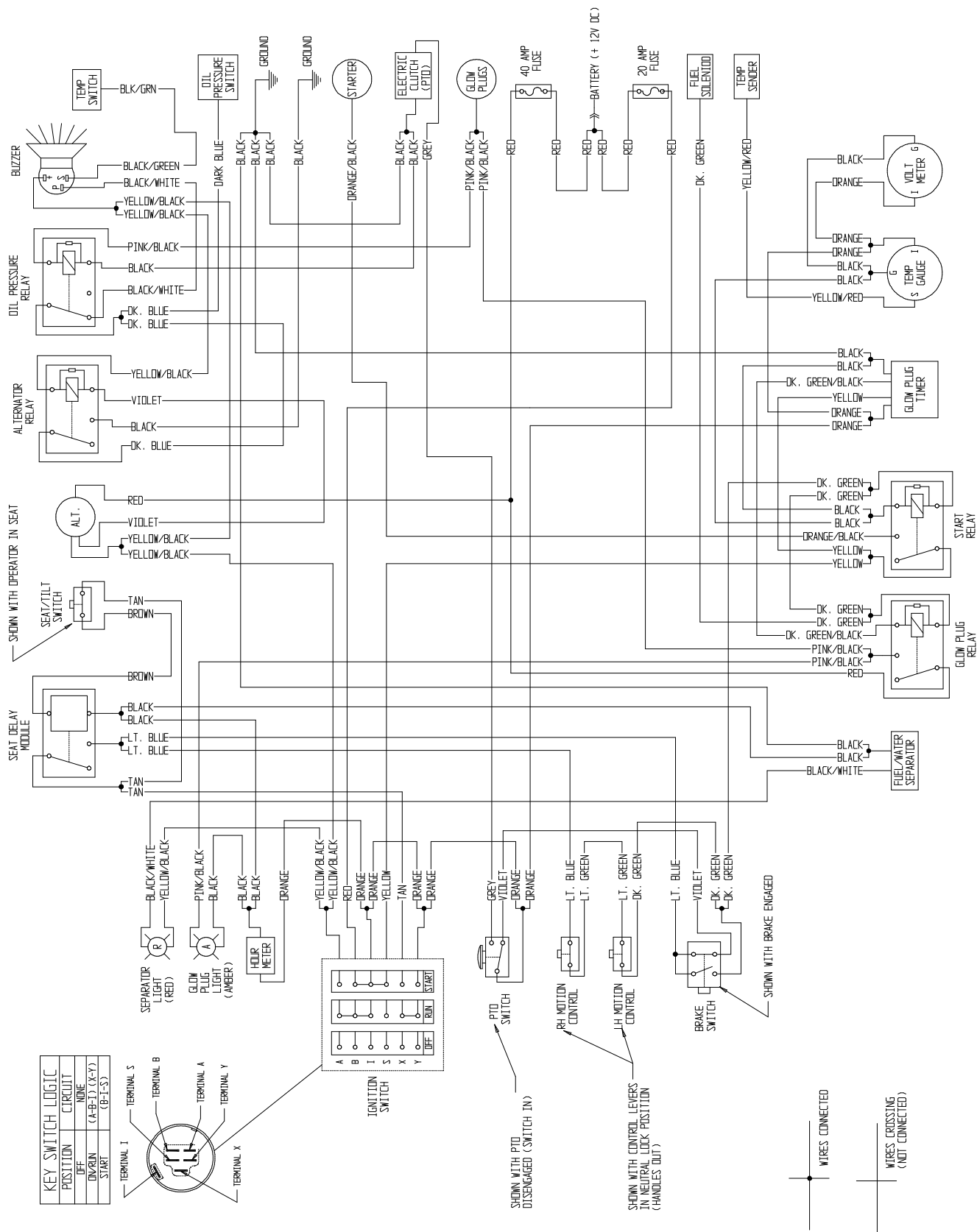


27 HP DIESEL WIRE HARNESS DIAGRAM



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 3/4 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, 1/4-20 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, 1/4-20 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, 1/4-20 whizlock	1	45	1-643037	Guage, Voltmeter	1
20	3256-22	Washer, 1/4 SAE	4	46	1-643021	Guage, Temperature	1
21	321-4	Screw, 1/4-20 x 3/4	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.

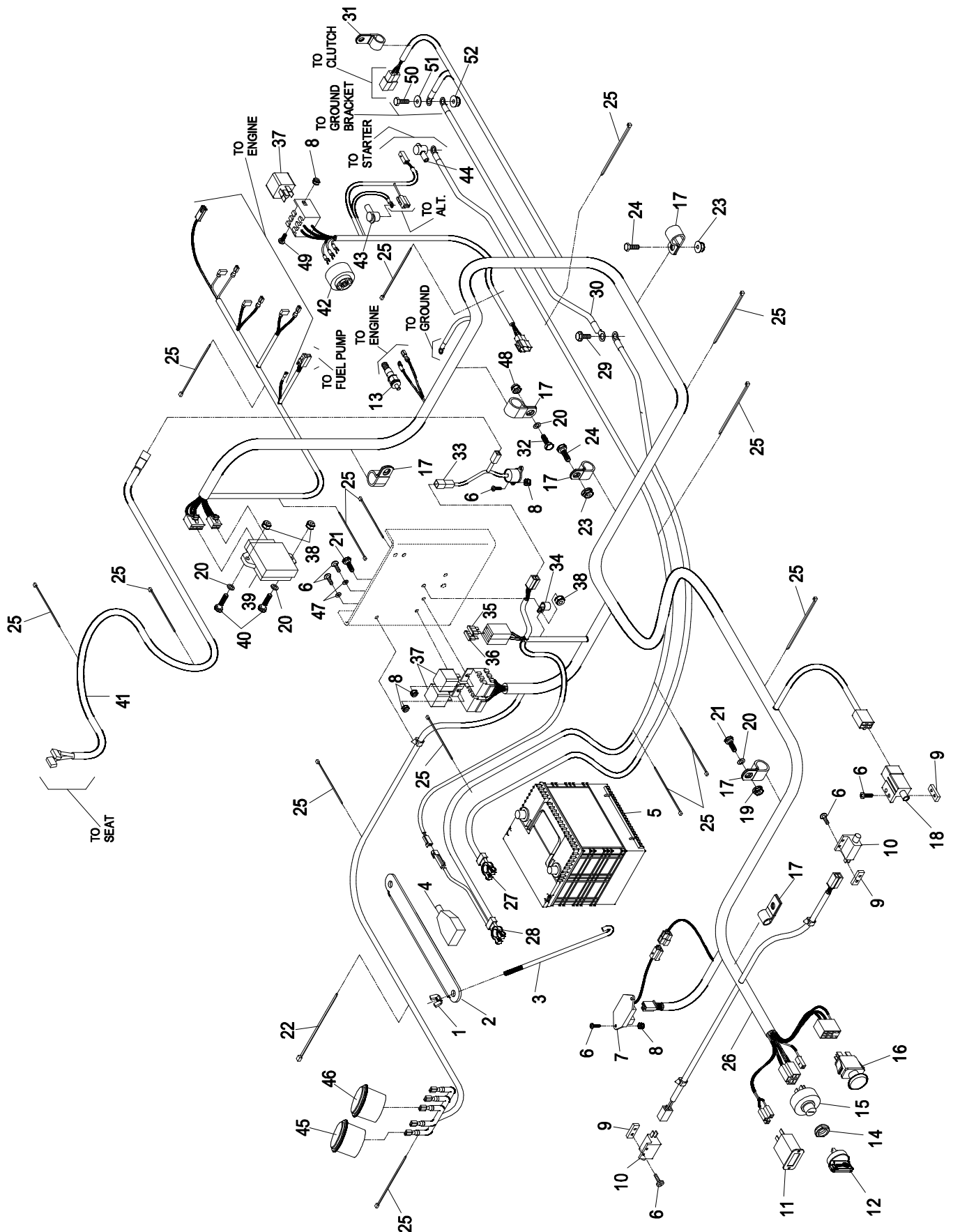
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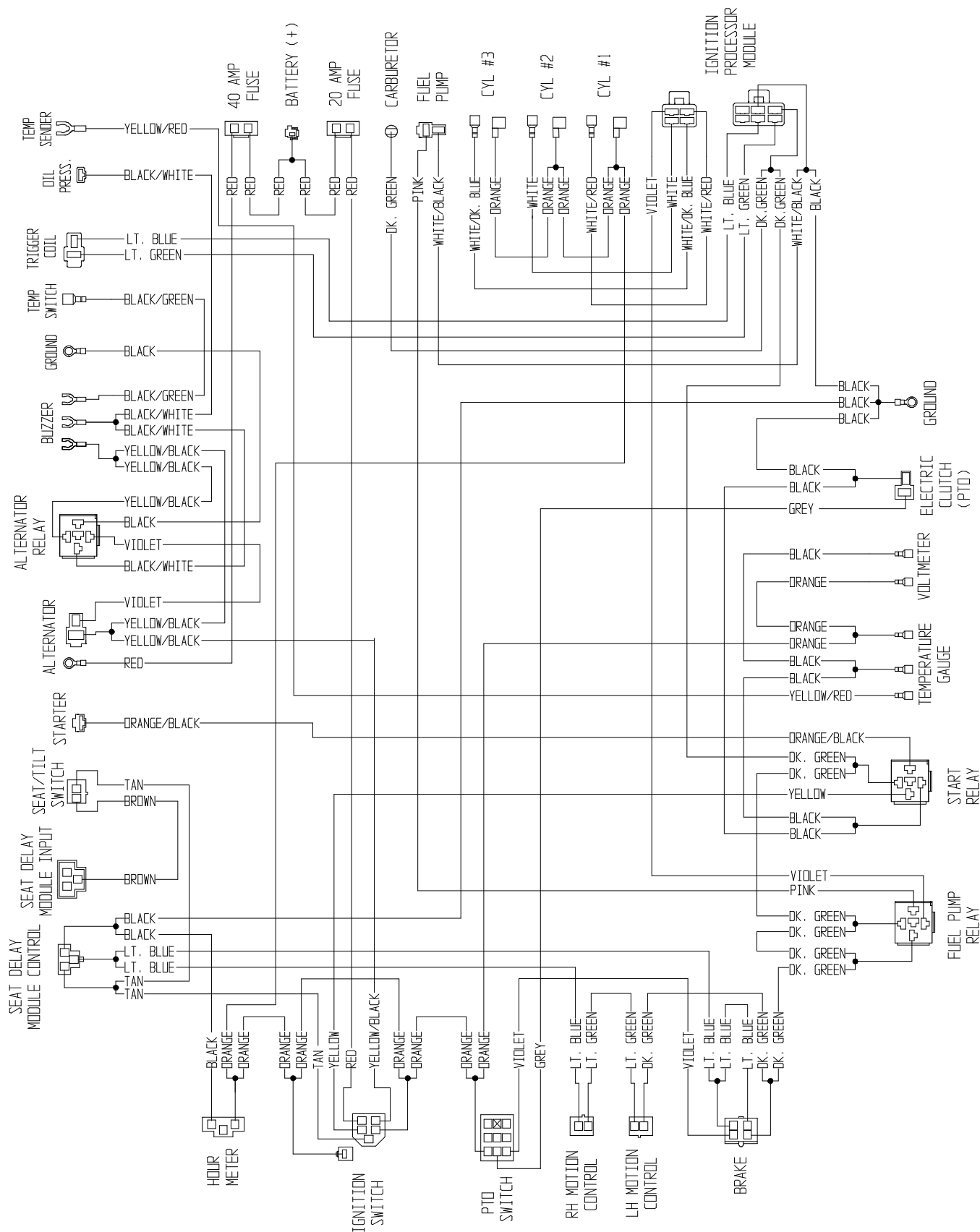
* Starter Cable includes insulators 103-1340 & 103-1420.

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

31 HP GAS ELECTRICAL GROUP

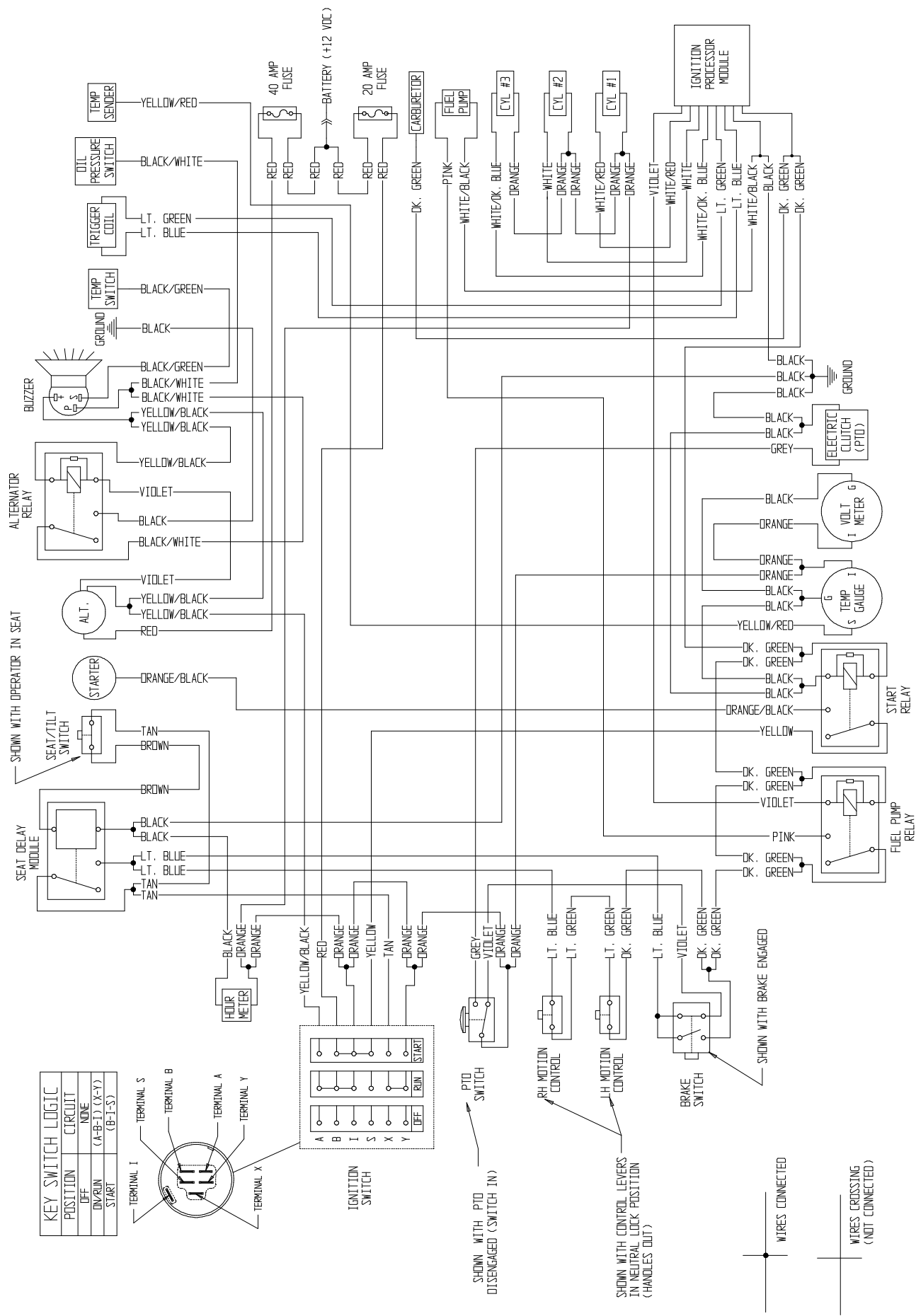


31 HP GAS WIRE HARNESS DIAGRAM



NOTE:
CONNECTORS VIEWED FROM WIRE END

31 HP GAS ELECTRICAL LOGIC SCHEMATIC



NOTES

SERVICE RECORD

[illegible]

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

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SELF STEERING SULKY

ULTRA VAC[™]

GRASS CATCHER

MICRO-MULCH[™] ACCESSORY