

Hustler Super Z Parts Manual



HUSTLER[®]

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Hustler Turf Equipment

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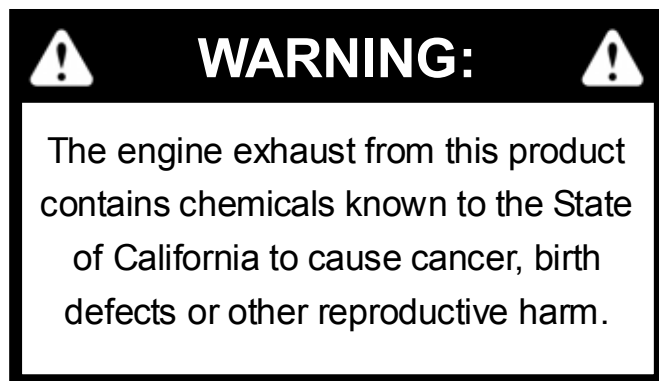
P.O. Box 7000

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Hesston, Kansas

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67062-2097



IMPORTANT: This engine is not equipped with a spark arrester muffler. It is a violation of California Public Resource Code Section 4442 to use or operate this engine on any forest-covered, brush-covered, or grass-covered unimproved land. Other states or federal areas may have similar laws.

This spark ignition system complies with Canadian ICES-002.

The Engine Owner's Manual provides information regarding the U.S. Environmental Protection Agency (EPA) and the California Emission Control Regulation of emission systems, maintenance and warranty.

Keep Engine Owner's Manual with your unit. Should the Engine Owner's Manual become damaged or illegible, replace immediately. Replacements may be ordered per the information found in the Product Information section of the owner's manual.

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Chapter 1

General Information

This Manual covers Hustler Super Z models 926725 24/52, 926741 24/60, 926766 24/72, 926972 25/72, 926980 25/60, 926998 25/72, 927038 27/60, 927046 27/72, 927053 28/60, 927061 28/72, 927319 27/52, 927558 26/60, 927566 26/72, 927467 27/60RD 927624 27/72RD, 927673 25/60RD, 927681 25/72RD.

Frequently Ordered Parts

PART NO.	DESCRIPTION
027912	LUBRIZOL 7 OZ. BOTTLE
027920	LUBRIZOL 10 OZ. BOTTLE
783936	HYDRAULIC FILTER ELEMENT
781443	PUMP DRIVE BELT
784207	B-SECTION BELT, 72" DECK
781310	B-SECTION BELT, 60" DECK
782292	B-SECTION BELT, 52" DECK
795781	RD DECK BELT, 60" DECK
797167	RD DECK BELT, 72" DECK
068478	FUEL FILTER
789628	KOHLER EFI FUEL FILTER
785261	MAIN AIR FILTER ELEMENT
785279	SAFETY AIR FILTER ELEMENT
772079	KAWASAKI ENGINE OIL FILTER
785634	HONDA ENGINE OIL FILTER
747303	KOHLER ENGINE OIL FILTER
795260	BLADE, F23.86"-H-F-CW, 72" DECK
794867	BLADE, 23.86"-GAT-F-CW, 72" DECK
793398	BLADE, 23.86"-MUL-F-CW, 72" DECK
795252	BLADE, F20.95"-H-F-CW, 60" DECK
793380	BLADE, 20.95"-MUL-F-CW, 60" DECK
794859	BLADE, 20.95"-GAT-F-CW, 60" DECK
795526	BLADE, F17.86"-H-F-CW, 54" DECK
794198	BLADE, 17.86"-MUL-F-CW, 54" DECK
785436	BLADE, 17.86"-GAT-F-CW, 54" DECK

Service Literature

PART NO.	DESCRIPTION
375527	HUSTLER SUPER Z OWNER'S MANUAL
778423	KAWASAKI 19/23/25 HP ENGINE MANUAL
796805	KAWASAKI FD731V ENGINE MANUAL
785642	HONDA 18/20/24 HP ENGINE MANUAL
742684	KOHLER CV740 ENGINE MANUAL

Note: When ordering parts, you must use the part number as shown for each part, not the index number. Always give

the model and serial number to your parts and service representative.

Note: Items sold in bulk such as seals and hoses are sold by the foot.

Using this manual

Illustrations used were current at the time of printing, but subsequent production changes may cause your machine to vary slightly in detail. Excel Industries, Inc. reserves the right to redesign and change the machine as deemed necessary, without notification. If a change has been made to your machine which is not reflected in this parts manual, see your Hustler dealer for current information and parts.

Hardware Description Codes & Abbreviations

The following codes are used throughout this parts manual. Refer to this list when ordering parts.

ABBREVIATION	DESCRIPTION
CB	CARRIAGE BOLT
CE	CLEVIS PIN
CP	COTTER PIN
CS	CAP SCREW
CW	CUP WASHER
FDRW	FENDER WASHER
FW	FLAT WASHER
HX	HEX HEAD
LW	LOCK WASHER
MB	MACHINE BUSHING
MS	MACHINE SCREW
NT	NUT
SC	SELF TAPPING CAP SCREW
SH	SOCKET HEAD
SB	SHOULDER BOLT
SS	SET SCREW

Standard Torques

The following chart lists the standard torque values for the threaded fasteners found in this manual. Torque all cap screws, nuts and set screws to these values unless a different torque is shown in the Notes section next to the fastener

SIZE	FT-LBS	NM	SIZE	FT-LBS	NM
.250	8.2	11.1	M3	1	1.3
.312	17	23	M4	2.2	3
.375	30	40	M5	4.5	6.1
.438	48	65	M6	7.7	10.4
.500	73	99	M8	18.5	25
.562	105	143	M10	37	50
.625	145	200	M12	64	87
.750	260	350	M16	160	215
.875	420	565	M20	320	435
1.00	625	850	M24	555	750

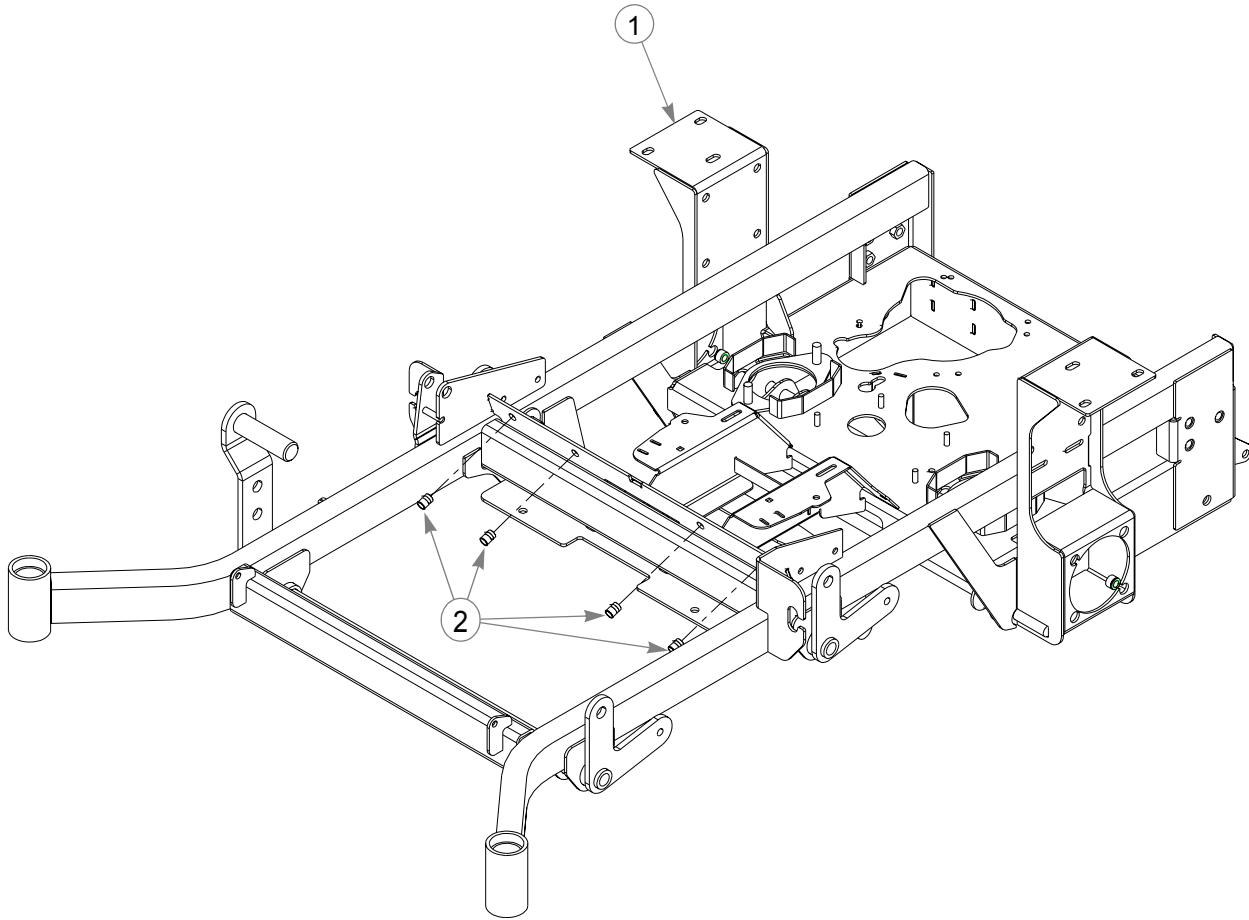
NOTE:

**Loctite 592 to be used on all pipe threads.
Lubricate all grease zerks.**

Chapter 2 Contents

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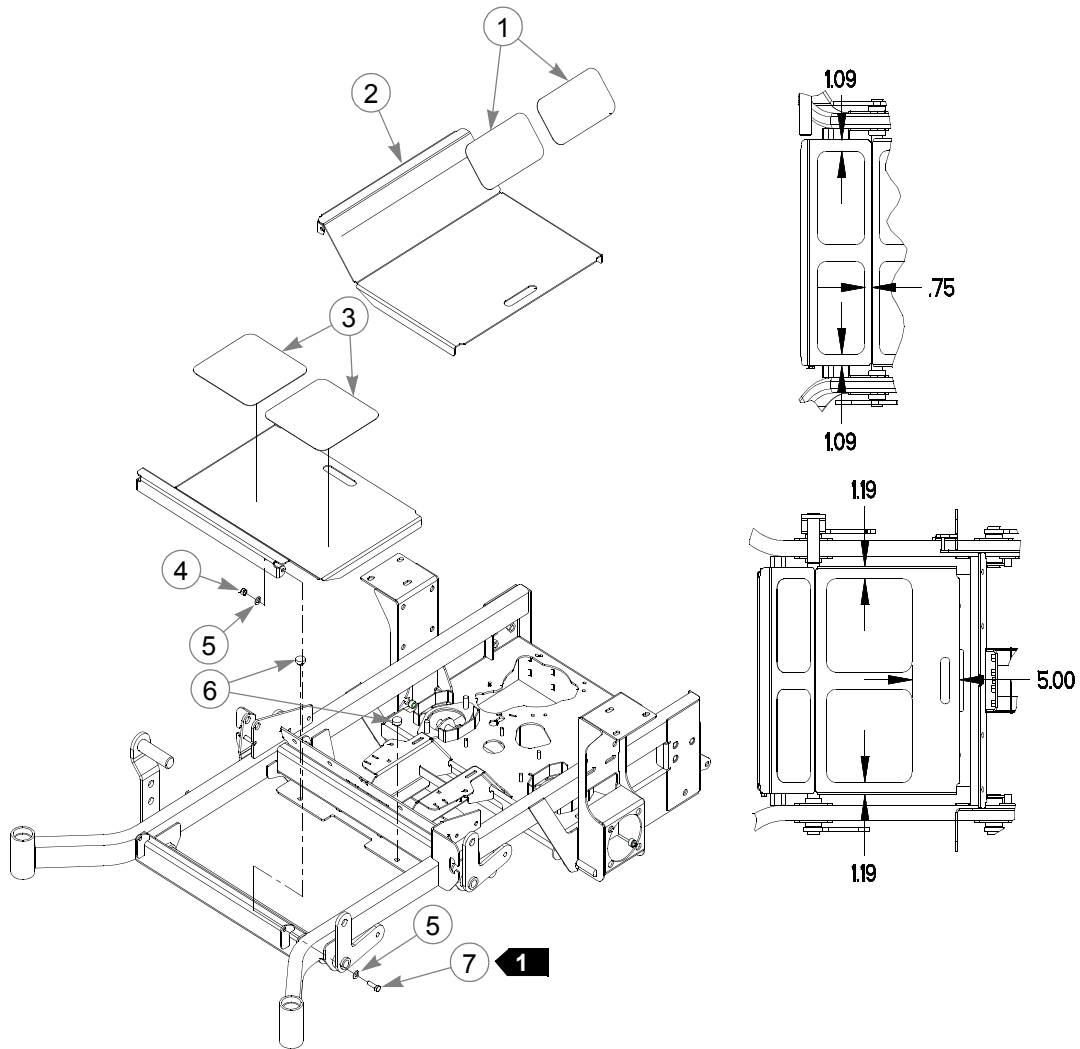
Rivet Nut Installation



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	545756	348029	1	SUPER Z 72" FRAME
	545731	353482	1	SUPER Z 60" FRAME
	545749	359158	1	SUPER Z 52" FRAME
	100412	100412	1	SUPER Z RD 60" FRAME
2	N/A	808493	4	3/8-16 THREAD NUTSERT

NOTES:

Footrest Assembly



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	359547	359547	2	STEP TREAD
2	348276	348276	1	FLOOR
3	395533	395533	1	FLOOR
3	305615	305615	2	PLATFORM STEP TREAD
4	086660	086660	2	NT .375-16 HX LK NY
5	767954	767954	4	FW .406X .812 X .060 SAE HD ZN
6	781880	781880	2	RUBBER BUMPER
7	052860	052860	2	CS .375-16 X 1.25 HX G5 ZNYC

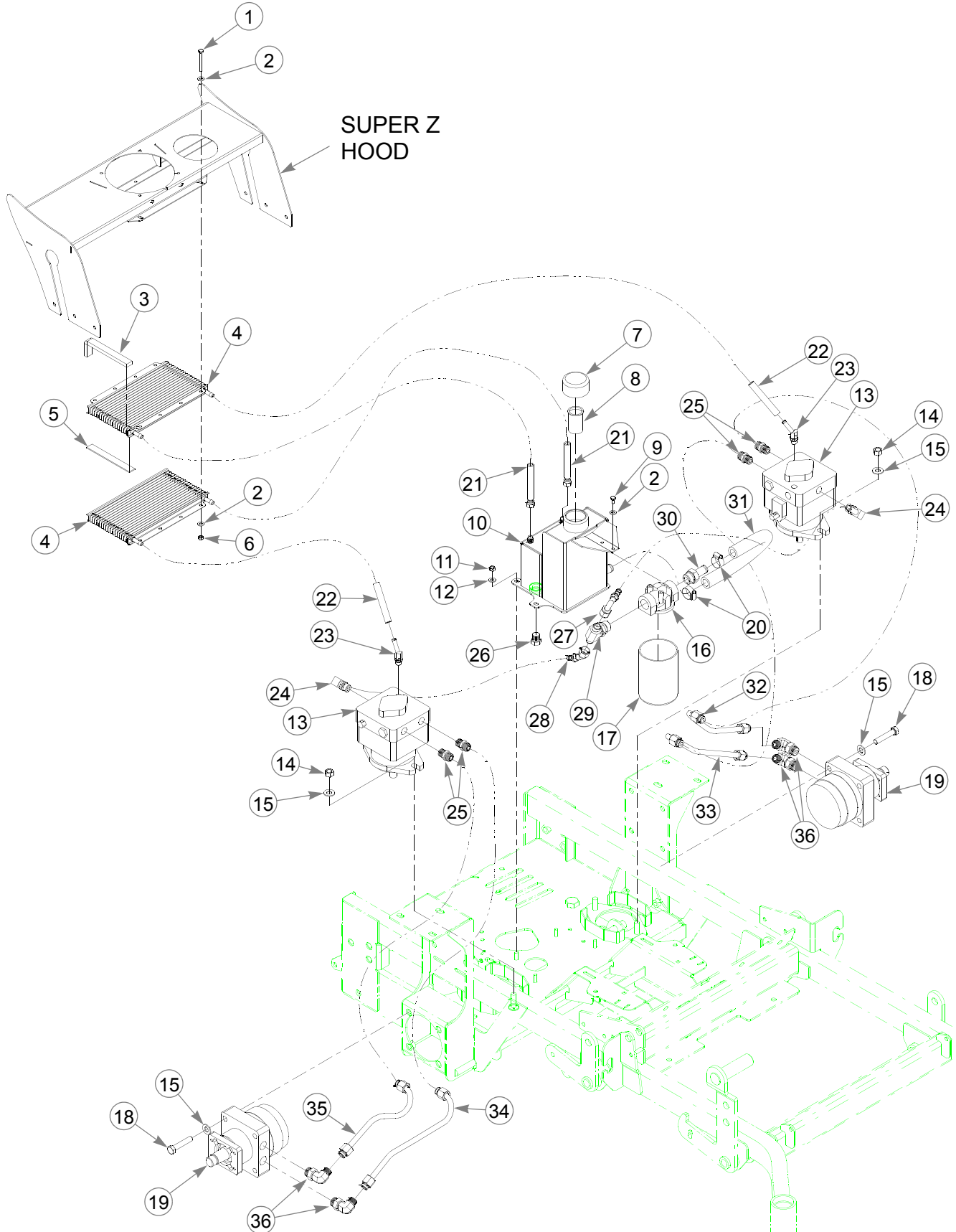
NOTES:

1. Do not tighten, Floor must be able to pivot on these bolts.
2. Used on mowers with serial number prior to 03082000.
3. Used on mowers with serial number 03082000 and higher.

Chapter 3 Contents

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Hydraulic System Installation—All Air Cooled Engines



Hydraulic System Installation–All Air Cooled Engines

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	705608	705608	4	CS .250-20 X 2.25 HX G5 ZNYC
2	768515	768515	10	FW .281 X .625 X .051/.080 HD ZNYC
3	713198	713198	2	SEAL 3/8 X 3/4 X 7.25" LONG
4	783704	783704	2	OIL COOLER
5	033035	033035	2	WEATHERSTRIP 1/8 X 3/4 X 5.88" LONG
6	068551	068551	4	NT .250-20 HX NL ZNYC
7	032763	032763	1	BREATHER CAP
8	032771	032771	1	STRAINER
9	055947	055947	2	CS .250-20 X .50 HX G5 ZNYC
10	357616	357616	1	SUPER Z RESERVOIR
11	034272	034272	4	NT .312-18 HX G5 ZNYC
12	768523	768523	4	FW .343 X .687 X .051/.080 HD ZNYC
13	788042	788042	2	PUMP, HYDRO-GEAR BDP-21L-408
14	008193	008193	4	NT .500-13 HX G5 ZNYC
15	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
16	783928	783928	1	ZAF SERIES FILTER HEAD
17	783936	783936	1	FILTER ELEMENT
18	008573	008573	8	CS .500-13 X 2.50 HX G5 ZNYC
19	782383	782383	2	WHITE MOTOR CE782383-18
20	700484	700484	2	HOSE CLAMP
21	784132	N/A	2	RETURN HOSE ASSY, #6 17.375" LONG
22	784124	N/A	2	RETURN HOSE, #6 16.5" LONG
23	784108	N/A	2	FITTING, #6 BEADED TUBE-ORB 45°
24	784082	N/A	2	FITTING, #8 BEADED TUBE-ORB 90°
25	781534	N/A	4	FITTING, STR-8MORB/-8MSL
26	781658	N/A	1	HEX PLUG FITTING, STR-8MORB
27	784025	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
28	783993	N/A	1	SUCTION HOSE, TANK-FILTER
29	788174	N/A	1	FITTING, T -8MJIC/8MJIC
30	783985	N/A	1	FITTING, 10 FX05-S
31	784116	N/A	1	SUCTION HOSE, #12 16" LONG
32	782870	N/A	1	TUBE, HYDRAULIC LINE
33	782880	N/A	1	TUBE, HYDRAULIC LINE
34	782458	N/A	1	TUBE, HYDRAULIC LINE
35	782441	N/A	1	TUBE, HYDRAULIC LINE
36	781526	N/A	4	FITTING, 90-10MORB/-8MSL
37	N/A	783720	1	HYDRO KIT (INCLUDES ITEMS 21-36)

NOTES:

1. Add 3.5 oz.Lubrizol (027912) to new system or when hydraulic oil is changed (see Owner's Manual).
2. Hydraulic system capacity is 5 US quarts. Fill reservoir to within 1" of top of Item 8 (032771 Strainer).

HYDRAULIC SYSTEM CHARGING PROCEDURE

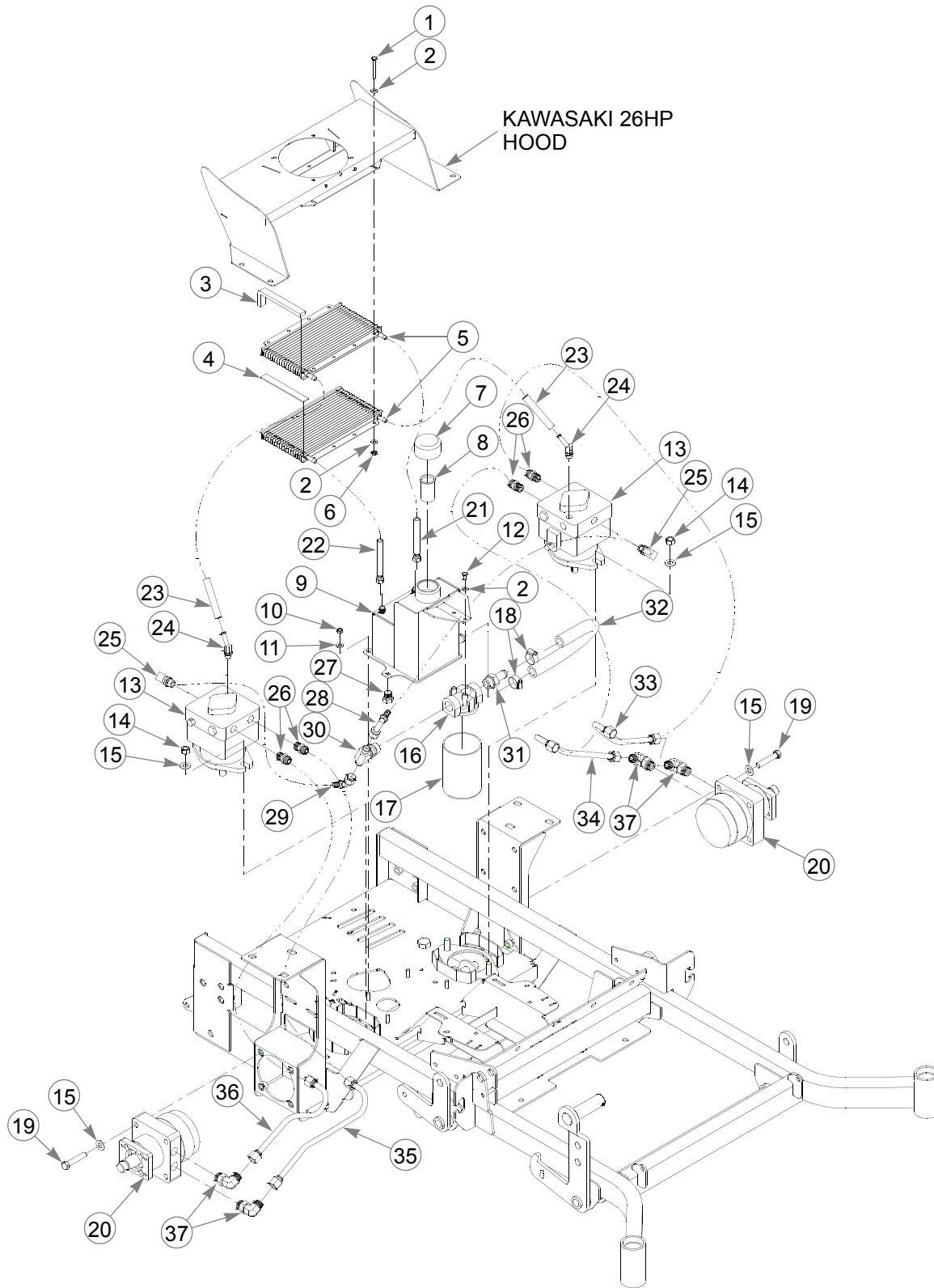
1. Set handles in the neutral position.
2. Start engine at idle.
3. Let run for a minimum of 30 seconds.
4. Stroke handles to forward position.
5. If motors do not turn in 15 seconds return handles to neutral and repeat step 3 and 4 (one time).
6. If motors do not turn after second attempt, shut off the engine and check for oil at the pump.
7. Increase throttle to half speed and work handles through forward and reverse position until the motor operates smoothly throughout the entire speed range.

Note:

Seal Kit for hydraulic pump; 784983 (BDP21L Overhaul Seal Kit).

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Hydraulic System Installation—Kawasaki 26HP Engine



Hydraulic System Installation–Kawasaki 26HP Engine

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	705608	705608	4	CS .250-20 X 2.25 HX G5 ZNYC
2	768515	768515	10	FW .281 X .625 X .051/.080 HD ZNYC
3	713198	713198	2	SEAL 3/8 X 3/4 X 7.25" LONG
4	033035	033035	2	WEATHERSTRIP 1/8 X 3/4 X 5.88" LONG
5	783704	783704	2	OIL COOLER
6	068551	068551	4	NT .250-20 HX NL ZNYC
7	032763	032763	1	BREATHER CAP
8	032771	032771	1	STRAINER
9	357616	357616	1	SUPER Z RESERVOIR
10	034272	034272	4	NT .312-18 HX G5 ZNYC
11	768523	768523	4	FW .343 X .687 X .051/.080 HD ZNYC
12	055947	055947	2	CS .250-20 X .50 HX G5 ZNYC
13	788042	788042	2	PUMP, HYDRO-GEAR BDP-21L-408
14	008193	008193	4	NT .500-13 HX G5 ZNYC
15	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
16	783928	783928	1	ZAF SERIES FILTER HEAD
17	783936	783936	1	FILTER ELEMENT
18	700484	700484	2	HOSE CLAMP
19	008573	008573	8	CS .500-13 X 2.50 HX G5 ZNYC
20	782383	782383	2	WHITE MOTOR CE782383-18
21	796920	N/A	1	COOLER-RESERVOIR HOSE ASSY, 25" LONG
22	796912	N/A	1	COOLER-RESERVOIR HOSE ASSY, 29" LONG
23	783993	N/A	1	SUCTION HOSE, TANK-FILTER
24	784108	N/A	2	FITTING, #6 BEADED TUBE-ORB 45°
25	784082	N/A	2	FITTING, #8 BEADED TUBE-ORB 90°
26	781534	N/A	4	FITTING, STR-8MORB/-8MSL
27	781658	N/A	1	HEX PLUG FITTING, STR-8MORB
28	784025	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
29	783993	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
30	788174	N/A	1	FITTING, T -8MJIC/8MJIC
31	783985	N/A	1	FITTING, 10 FX05-S
32	784116	N/A	1	SUCTION HOSE, #12 16" LONG
33	782870	N/A	1	TUBE, HYDRAULIC LINE
34	782880	N/A	1	TUBE, HYDRAULIC LINE
35	782458	N/A	1	TUBE, HYDRAULIC LINE
36	782441	N/A	1	TUBE, HYDRAULIC LINE
37	781526	N/A	4	FITTING, 90-10MORB/-8MSL
	N/A	796730	1	HYDRO KIT (INCLUDES ITEMS 21-37)

NOTES:

1. Add 3.5 oz.Lubrizon (027912) to new system or when hydraulic oil is changed (see Owner's Manual).
2. Hydraulic system capacity is 5 US quarts. Fill reservoir to within 1"of top of Item 8 (032771 Strainer).

HYDRAULIC SYSTEM CHARGING PROCEDURE

1. Set handles in the neutral position.
2. Start engine at idle.
3. Let run for a minimum of 30 seconds.
4. Stroke handles to forward position.
5. If motors do not turn in 15 seconds return handles to neutral and repeat step 3 and 4 (one time).
6. If motors do not turn after second attempt, shut off the engine and check for oil at the pump.
7. Increase throttle to half speed and work handles through forward and reverse position until the motor operates smoothly throughout the entire speed range.

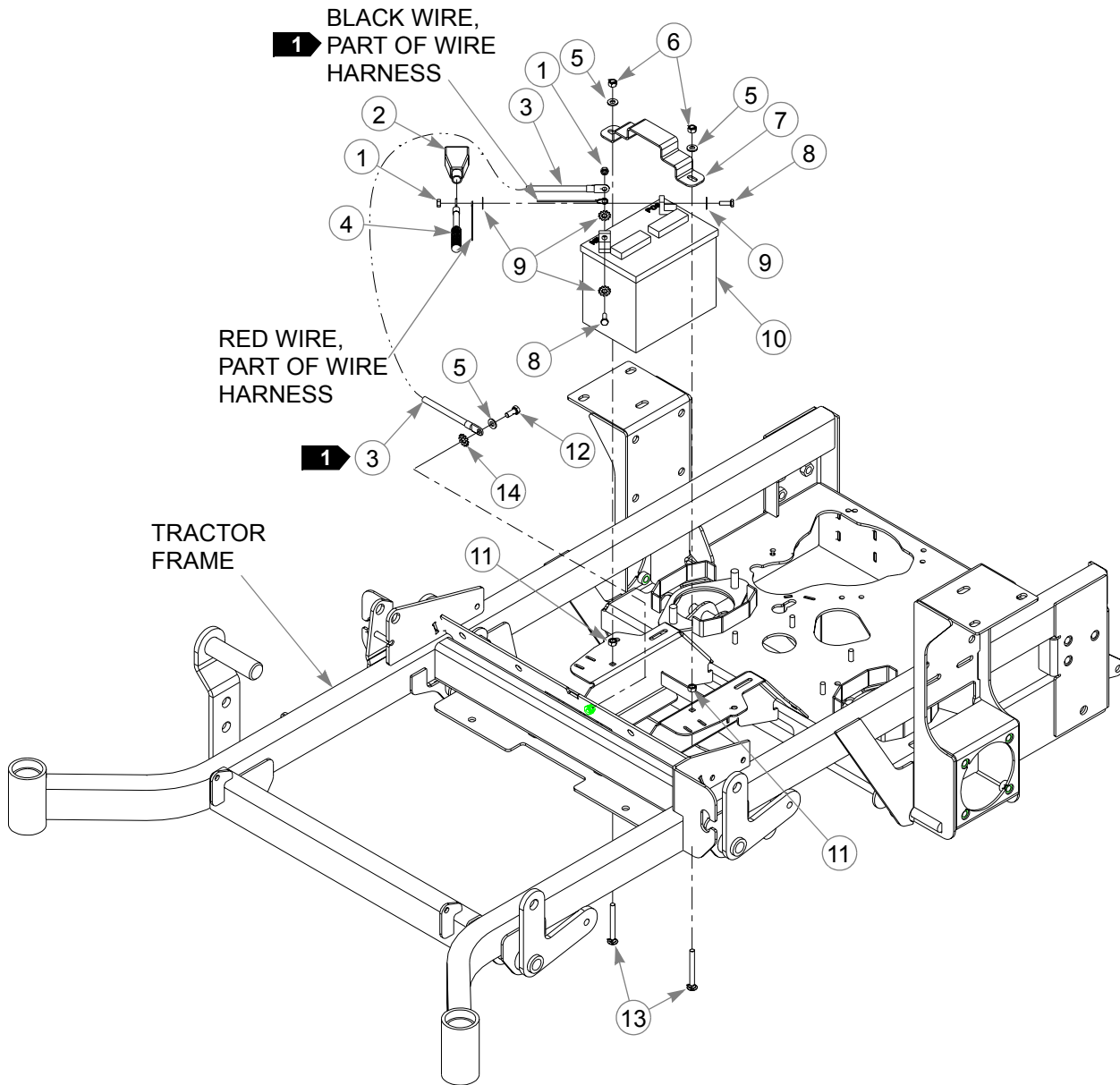
Note:

Seal Kit for hydraulic pump; 784983 (BDP21L Overhaul Seal Kit)

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Battery Installation



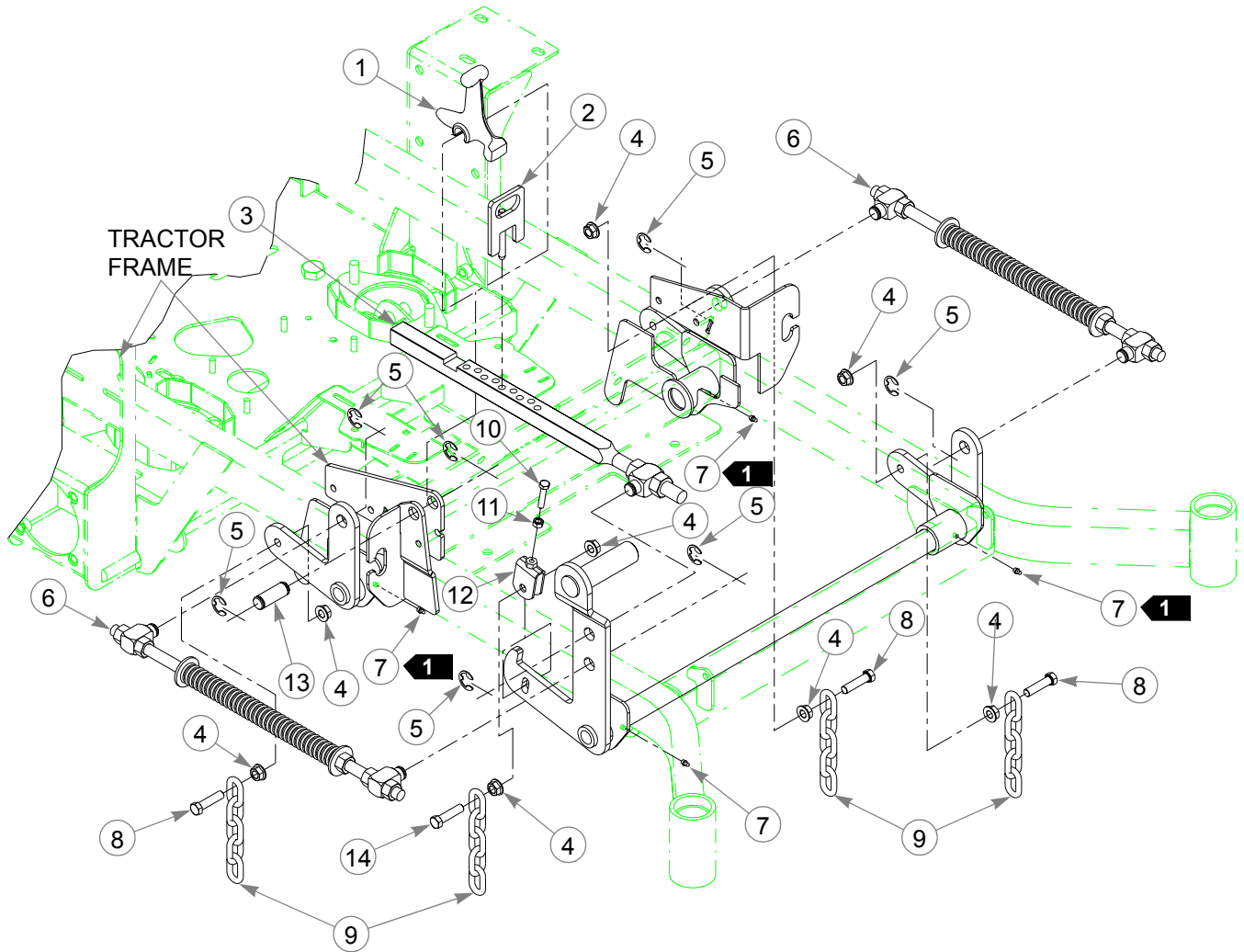
Battery Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	024927	024927	2	NT .250-20 HX GR 5 ZN
2	771428	771428	1	RED BATTERY CABLE BOOT
3	768820	768820	1	BATTERY GROUND CABLE
4	744276	744276	1	POSITIVE BATTERY CABLE
5	768523	768523	3	FW .343 X .687 X .051/.080 HD ZNYC
6	058776	058776	2	NT .312-18 HX NL ZN
7	348417	348417	1	BATTERY CLAMP STRAP
8	055939	055939	2	CS .250-20 X .750 HX G5 ZN
9	029868	029868	4	LW .250 INT-EXT TOOTH ZN
10	740696	740696	1	BATTERY
11	034272	034272	2	NT .312-18 HX G5 ZN
12	034280	034280	1	CS .312-18 X.750 HX G5 ZN
13	779850	779850	2	CB .312-18 X 3.00 FUL ZN
14	029876	029876	1	LW .312 INT-EXT TOOTH ZN

NOTES:

1. When performing service on mower, disconnect battery ground cable and black wire of harness and do not reconnect to battery until engine is ready to be started. See Owners Manual.

Deck Lift Assembly



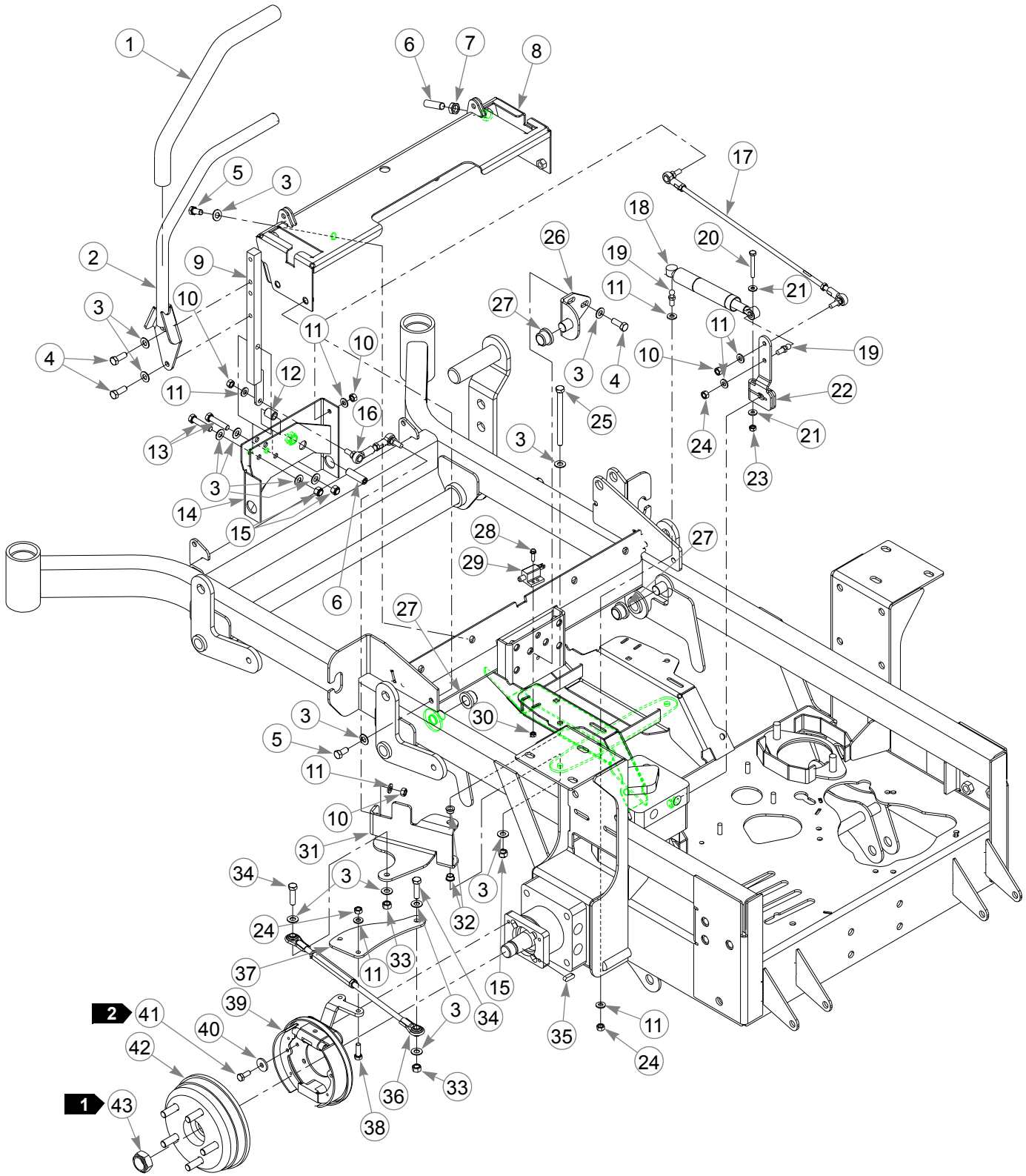
Deck Lift Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	348318	348318	1	STOP HANDLE
2	600437	600437	1	DECK HEIGHT PIN, 1/2" PIN
	348284	N/A		HEIGHT ADJUSTMENT STOP, 3/8" PIN
3	783001	783001	1	DECK LIFT INDICATOR
4	704643	704643	8	NT .437-14 HX FLG ZN
5	781294	781294	7	CLIP E, 1.00 X.625X .050
6	782995	782995	2	DECK LIFT SPRING ASSEMBLY
7	015495	015495	4	STRAIGHT GREASE FITTING
8	055749	055749	3	CS .437-14X1.750 HX G5 ZNYC
9	348391	348391	4	DECK LIFT CHAIN
10	756270	756270	1	CS .312-18 X 1.50 FLTHR GR5 ZNYC
11	034272	034272	1	NT .312-18 HX G5 ZNYC
12	348458	348458	1	DECK LEVELER YOKE W/A
13	781229	781229	1	CE .750X2.25 X1.75 HEADLESS
14	781831	781831	1	CS .437-14 X 1.750 FULTH G5 ZNYC

NOTES:

1. Apply grease to zerks (see owners manual).
2. Verify pin diameter before ordering replacement part. For mowers with 3/8" diameter pins, order 348284; for mowers with 1/2" pins order 600437. For replacement purposes, item 3 includes item 2 with 1/2" diameter.

Steering and Park Brake Assembly



Steering and Park Brake Assembly

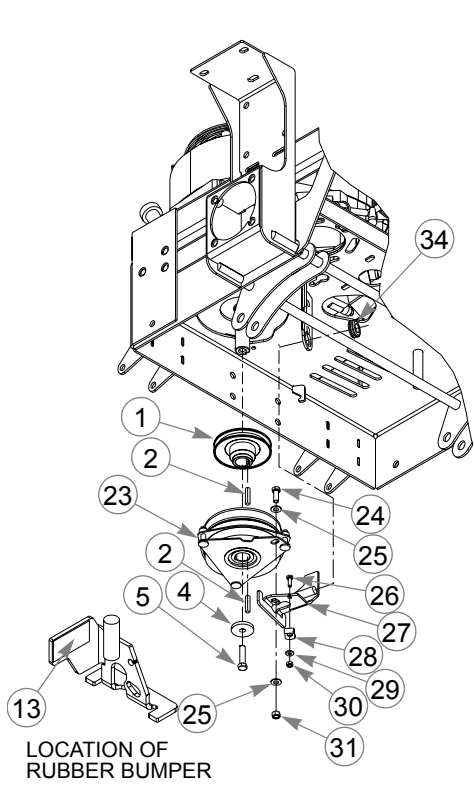
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION	
	1	781260	N/A	2	STEERING BAR GRIP
5	2	348755	348755	2	STEERING BAR
	3	767954	767954	43	FW .406 X .812 X .060 SAE HD ZN
	4	036244	036244	10	CS .375-16 X 1.000 HX G5 ZN
	5	055822	055822	8	CS .375-16 X .750 HX G5 ZN
	6	781716	781716	4	SS .500-13 X 1.75 SH ZN
	7	053199	053199	2	NT .500-13 HX JAM ZN
	8	348987	348987	1	STEERING CONTROL PANEL
	9	348946	348946	2	STEERING ARM MOUNT
	10	041152	041152	8	NT .312-24 HX ZN
	11	768523	768523	10	FW .34 3X .687 X .051/.080 HD ZN/YL
	12	348862	348862	4	STEERLEVER BUSHING
	13	705178	705178	6	CS .375-16 X 1.750 HX G5 ZN
	14	348888	348888	1	STEERLEVER SUPPORT LH
		348714	348714	1	STEERLEVER SUPPORT RH
	15	086660	086660	8	NT .375-16 HX LK NY
	16	781583	781583	2	BRAKE ROD ASSEMBLY
	17	781286	781286	2	PUMP ROD ADJUSTER ASSEMBLY
	18	783696	783696	2	CENTERING DAMPENER
	19	781922	781922	4	DAMPENER BALL STUD
	20	704163	704163	2	CS .250-20 X 2.00 HX G5 ZN
	21	768515	768515	4	FW .281 X .625 X .051/.080 HD ZN/YL
	22	347684	347684	2	SUPER Z PUMP ARM
	23	068551	068551	2	NT .250-20 HX NL ZN
	24	034272	034272	8	NT .312-18 HX G5 ZN
	25	782979	782979	2	CS .375-16 X 4.75 HX G5 ZN
	26	348797	348797	2	ADJUSTABLE PIVOT
	27	781153	781153	4	BUSHING
	28	063198	063198	4	CS 10-24 X .750 HXFLK ZN
	29	781211	781211	2	PUSH BUTTON SWITCH
	30	059832	059832	4	NT #10-24 HX NL ZN
	31	350330	350330	1	L.S. BRAKE PIVOT ARM
		350264	350264	1	R.S. BRAKE PIVOT ARM
	32	765339	765339	4	BUSHING
	33	054502	054502	4	NT .375-16 HX GRD 5 ZN
	34	005116	005116	4	CS .375-16 X 1.375 HX G5 ZN
	35	783852	N/A	2	KEY FOR WHITE MOTOR
	36	350397	350397	2	BRAKE LINK TURNBUCKLE
	37	354035	354035	2	WHITE BRAKE LEVER EXTENSION
	38	036236	036236	4	CS .312-18 X 1.000 HX G5 ZN
3	39	783126	783126	1	LH WHITE BRAKE ASSY
4		783118	783118	1	RH WHITE BRAKE ASSY
	40	712927	712927	8	FW .344 X 1.00 X .12 HRD ZNYC
	41	048876	048876	8	CS .312-18 X .750 HX G8 ZNYC
	42	782953	782953	2	WHITE HUB ASSEMBLY
	43	783845	N/A	2	NUT FOR WHITE MOTOR

NOTES:

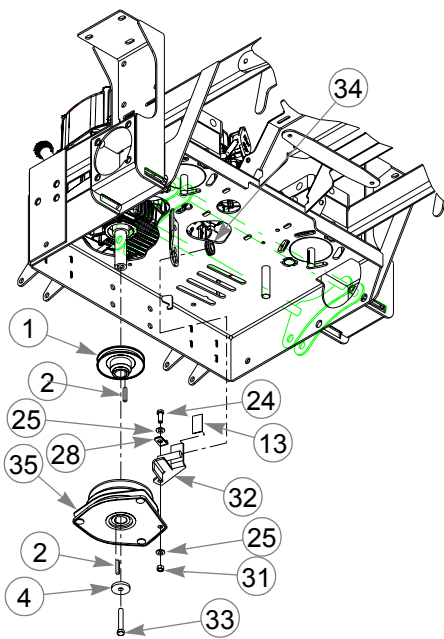
1. Torque to 280-310 ft.-lbs. Included with wheel motor.
2. Torque to 24 ft.-lbs.
3. 783126 used on left wheel.
4. 783118 used on right wheel.
5. Includes item 1 steering bar grip (781260).

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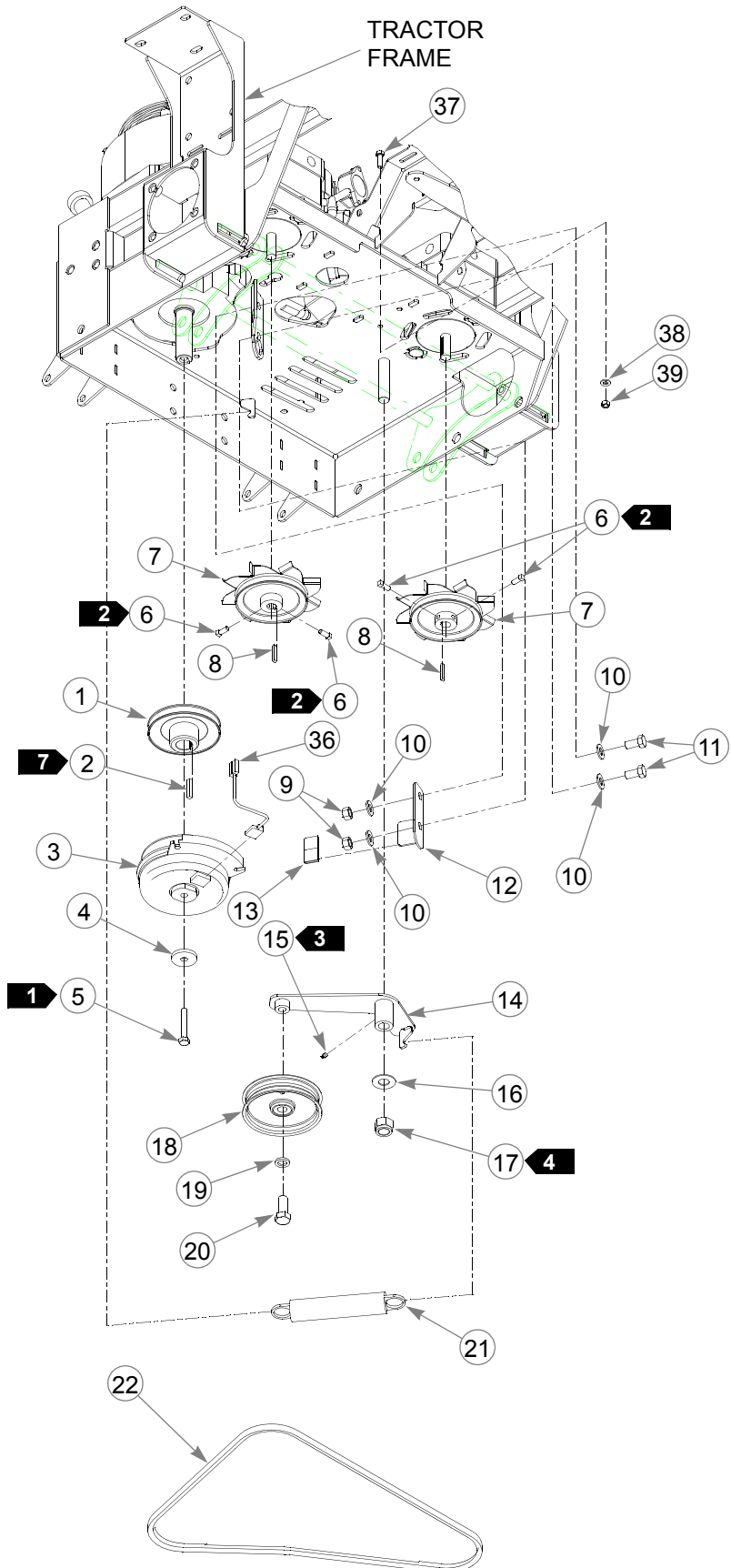
Pump Belt and Pulleys Installation



SEE NOTE 5



SEE NOTE 6



Pump Belt and Pulleys Installation

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	783761	783761	1	SUPER Z SINGLE ENGINE PULLEY
2	212076	212076	1	KEY 1/4 SQ X 1.50 LONG
3	787366	787366	1	WARNER CLUTCH
4	783829	783829	1	FW .460 X 1.750 X .250 ZNYC (AIR COOLED ENGINES ONLY)
	712893	712893	1	FW .406X 1.25X.12 HRD ZN (26 HP KAWASAKI ONLY)
5	785659	785659	1	CS .437-20 X 2.50 HX G5 ZNYC (AIR COOLED ENGINES ONLY)
	797142	797142	1	CS M10-1.5X60 HX ZY G8.8 (26 HP KAWASAKI ONLY)
6	083196	083196	4	SS .312-18X .750 SQ-HD ZN
7	782466	782466	2	PULLEY & FAN FOR BDP-21
8	783712	783712	2	KEY FOR BDP21L
9	008193	008193	2	NT .500-13 HX G5 ZNYC
10	767962	767962	4	FW .531 X 1.063 X .090 SAE HD ZN
11	016527	016527	2	CS .500-13 X 1.00 HX G5 ZNYC
12	366765	366765	1	CLUTCH ANCHOR ANGLE
13	784918	784918	2	RUBBER BUMPER
14	349761	349761	1	PUMP IDLER ARM
15	015495	015495	1	STRAIGHT GREASE FITTING
16	025296	025296	1	FW .760 X 1.625 X .08 ZN
17	061101	061101	1	NT .750-10 HX NL ZN
18	781856	781856	1	IDLER PULLEY
19	028118	028118	1	FW .62 X 1.00 X.134 ZN
20	794446	794446	1	CS .625-11 X 1.50 HX G5 ZN
21	781302	781302	1	IDLER SPRING
22	781443	781443	1	A-SEC PUMP IDLER BELT
8	23	N/A	1	OGURA GT2 CLUTCH
	24	036244	1	CS .375-16 X 1.000 HX G5 ZN
	25	767954	2	FW .406 X .812 X .060 SAE HD ZN
	26	055939	1	CS .250-20 X .750 HX G5 ZN
	27	362392	1	CLUTCH ANCHOR BRACKET
	28	778738	1	.312 WIRING CLAMP
	29	768515	1	FW .281 X .625 X .051/.080 HD ZN/YL
	30	024927	1	NT .250-20 HX GR.5 ZN
	31	054502	1	NT .375-16 HX GRD 5 ZN
	32	366823	1	CLUTCH ANCHOR BRACKET
	33	778217	1	CS .437-20 X 2.250 G5 ZNYC
	34	748681	1	GM .75 X 1.35 X 1.06 X .18 GROMMET
8	35	N/A	1	OGURA GT3 CLUTCH
	36	791251	1	CLUTCH PIGTAIL HARNESS WITH DIODE
	37	036236	1	CS .312-18 X 1.00 HX G5 ZNYC
	38	768523	1	FW .343 X .687 X .051/.080 HD ZNYC
	39	034272	1	NT .312-18 HX G5 ZNYC

NOTES:

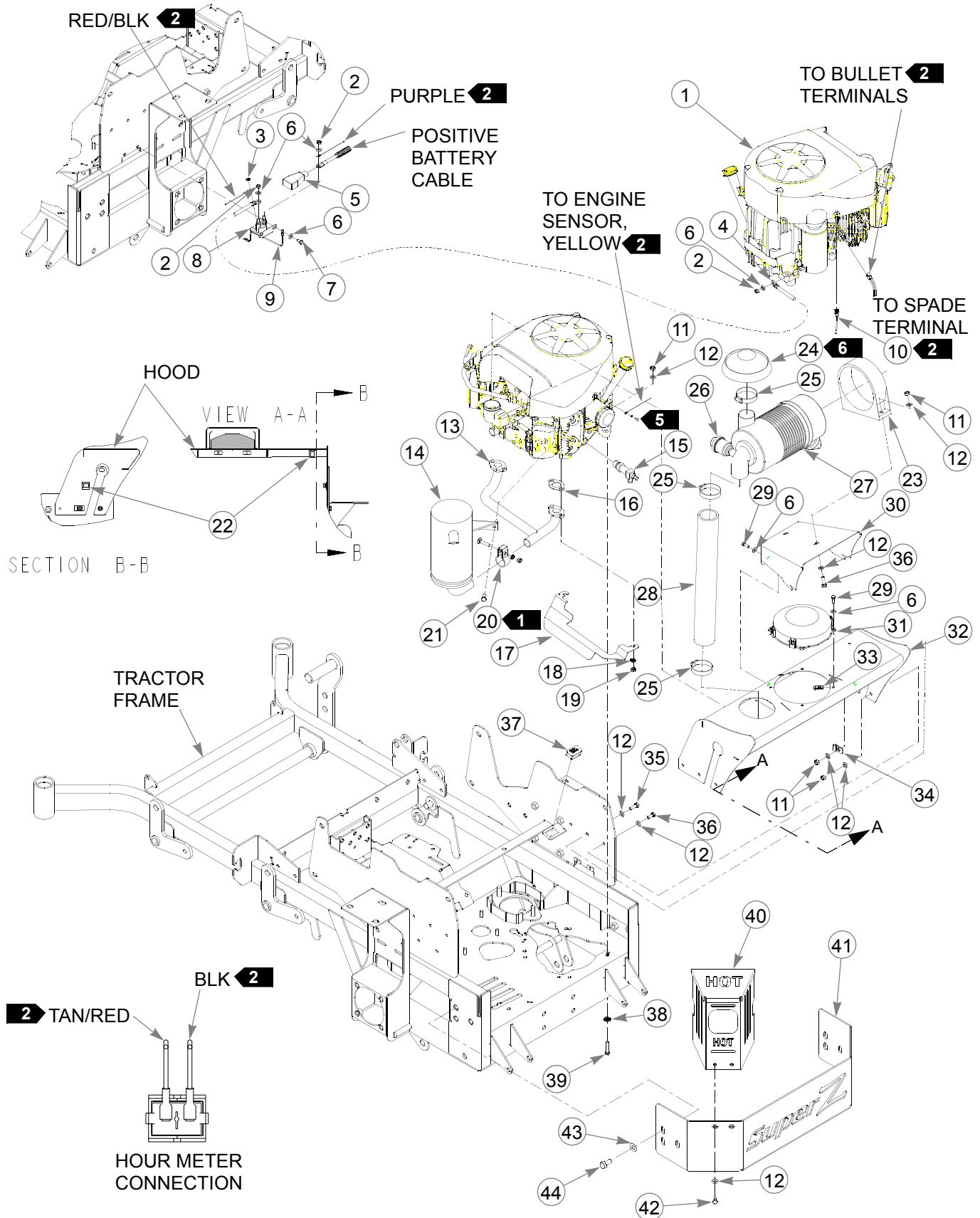
1. Torque to 45-48 ft-lbs.
2. Torque to 12-15 ft-lbs
3. Apply grease at zerk (see owners manual).

-
4. Do not torque Item 17 (NT .750-10 HX NL ZN), Item 14 (349761 Pump Idler Arm) should pivot freely.
 5. Alternative use clutch (Ogura GT2).
 6. Alternative use clutch (Ogura GT3).
 7. Included with Honda 24 HP engine (785014).
 8. Order 781039K for replacement clutch.
 9. **Electric clutch burnishing procedure:** After installing a new clutch it is important to burnish the clutch to insure maximum deck clutch life. In an open area with no bystanders set the engine speed to half throttle. Cycle the deck clutch on for 15 seconds, and then off for 15 seconds. Repeat this operation 10 times, it will require about 5 minutes to complete.

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Kawasaki 25 HP Engine Installation



Kawasaki 25 HP Engine Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	782318	782318	1	KAWASAKI 25 HP 3600RPM ENGINE
2	024927	024927	3	NT .250-20 HX GR.5 ZN
3	044255	044255	1	NT #10-32 HX ZN
4	792762	792762	1	BATTERY CABLE
5	771428	771428	1	RED BATTERY CABLE BOOT
6	768515	768515	11	FW .281 X .625 X .051/.080 HD ZN/YL
7	055947	055947	2	CS .250-20 X .500 HX G5 ZN
8	030817	030817	1	STARTER SOLENOID
9	792192	792192	1	STARTER RELAY GROUND
10	783894	783894	1	SUPER Z TRACTOR WIRE HARNESS
11	034272	034272	11	NT .312-18 HX G5 ZN
12	768523	768523	20	FW .343 X .687 X .051/.080 HD ZN/YL
13	781732	781732	1	MUFFLER MANIFOLD
14	781724	781724	1	MUFFLER
15	796524	796524	1	M20X2.5 OIL DRAIN VALVE
16	780841	780841	2	KAW (23) MUFFLER GASKET
17	360693	360693	1	HEAT SHIELD
18	017004	017004	4	LW .312 MED SPRING ZN
19	782664	782664	4	NT M8-1.25 HX STAINLESS STEEL
1	782649	782649	1	KAW (23) EXHAUST PIPE CLAMP
21	720177	720177	2	CS M 8-1.25 X 20 10.9 HXFL ZN
22	047654	047654	2	CLIP
23	785741	785741	1	MOUNTING BAND
24	786673	786673	1	DONALDSON AIR CLEANER CAP
25	057661	057661	2	HOSE CLAMP
26	788943	788943	1	AIR FILTER INDICATOR
27	782763	782763	1	AIR CLEANER
28	786038	786038	1	REMOTE AIR FILTER HOSE
29	055939	055939	6	CS .250-20 X .75 HX G5 ZNYC
30	357780	357780	1	SUPER Z HOOD SCOOP
31	783837	783837	1	ELECTRIC COOLER FAN
32	356121	356121	1	SUPER Z HOOD
33	044818	044818	4	CN ZN TIN-C7343-1420
34	778738	778738	1	.312 WIRING CLAMP
35	036236	036236	3	CS .312-18 X 1.00 HX G5 ZNYC
36	034280	034280	4	CS .312-18 X .750 HX G5 ZNYC
37	769166	769166	1	HOUR METER
38	029876	029876	4	LW .312 INT-EXT TOOTH ZN
39	052837	052837	4	CS .312-18 X 1.500 HX G5 ZN
40	350371	350371	1	MUFFLER GUARD
41	380618	380618	1	SUPER Z ENGINE GUARD
42	064006	064006	2	CS .312-18 X .625 HX G5 ZN
43	767962	767962	6	FW .531 X 1.063 X .090 SAE HD ZN
44	016527	016527	6	CS .500-13 X 1.00 HX G5 ZN

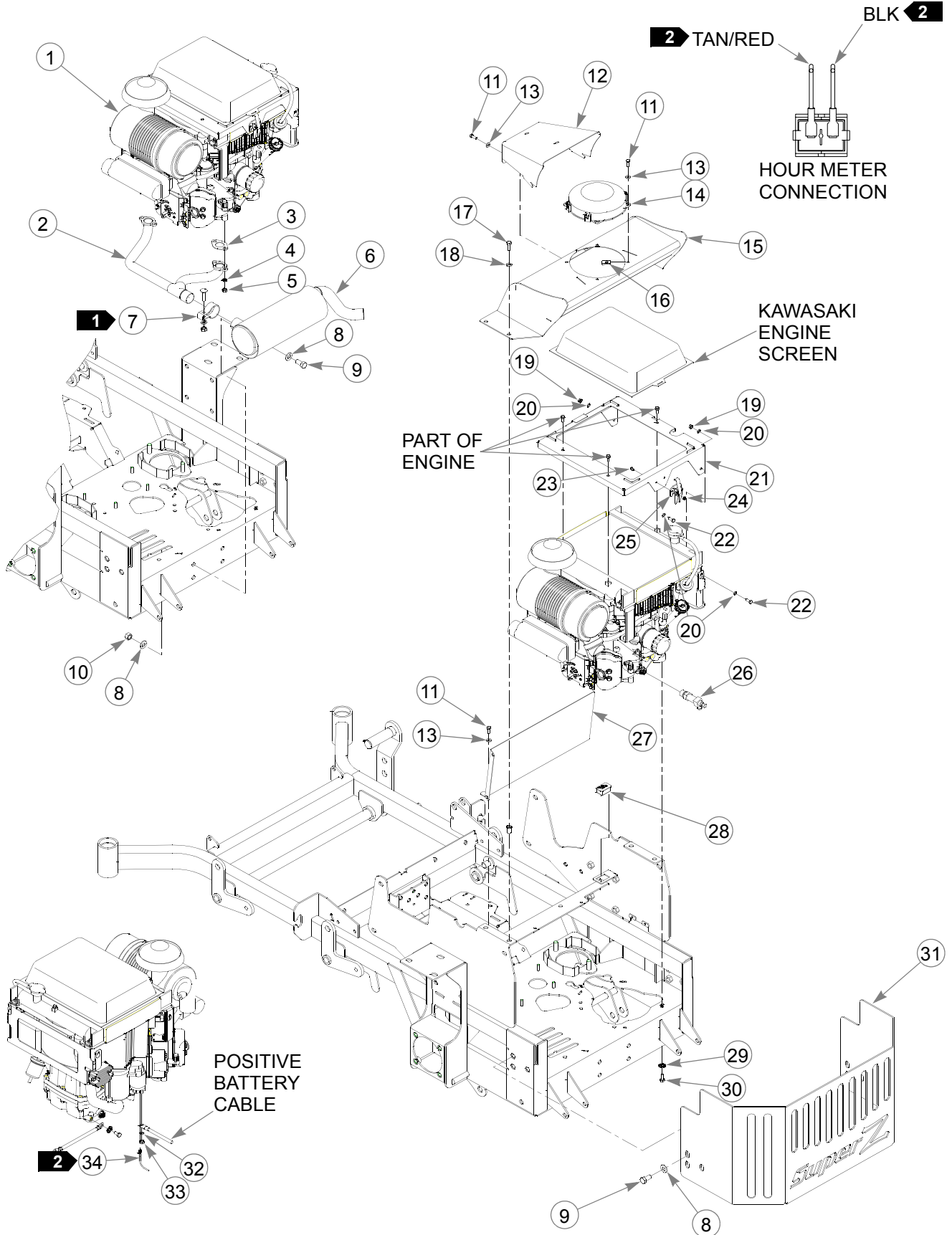
NOTES:

1. Includes mounting hardware.
2. Part of Item 10 (783894 Super Z Tractor Wire Harness).
3. Engine oil capacity; 2 US quarts.
4. Engine RPM to be set at 3600±50.
5. Supplied with engine.
6. Includes one (1) of 057661 Hose Clamp.
7. When installing lower hose clamp on air cleaner hose, install as low as possible (against carburetor inlet).
8. Used on mowers with serial numbers 05031839 and higher. This part replaces "O" ring , drain extension, and drain plug, on mowers with serial numbers prior to 05031839.
9. Air filter service parts:

785261	MAIN AIR FILTER ELEMENT
763318	VACUATOR VALVE

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Kawasaki 26 HP Engine Installation



Kawasaki 26 HP Engine Installation

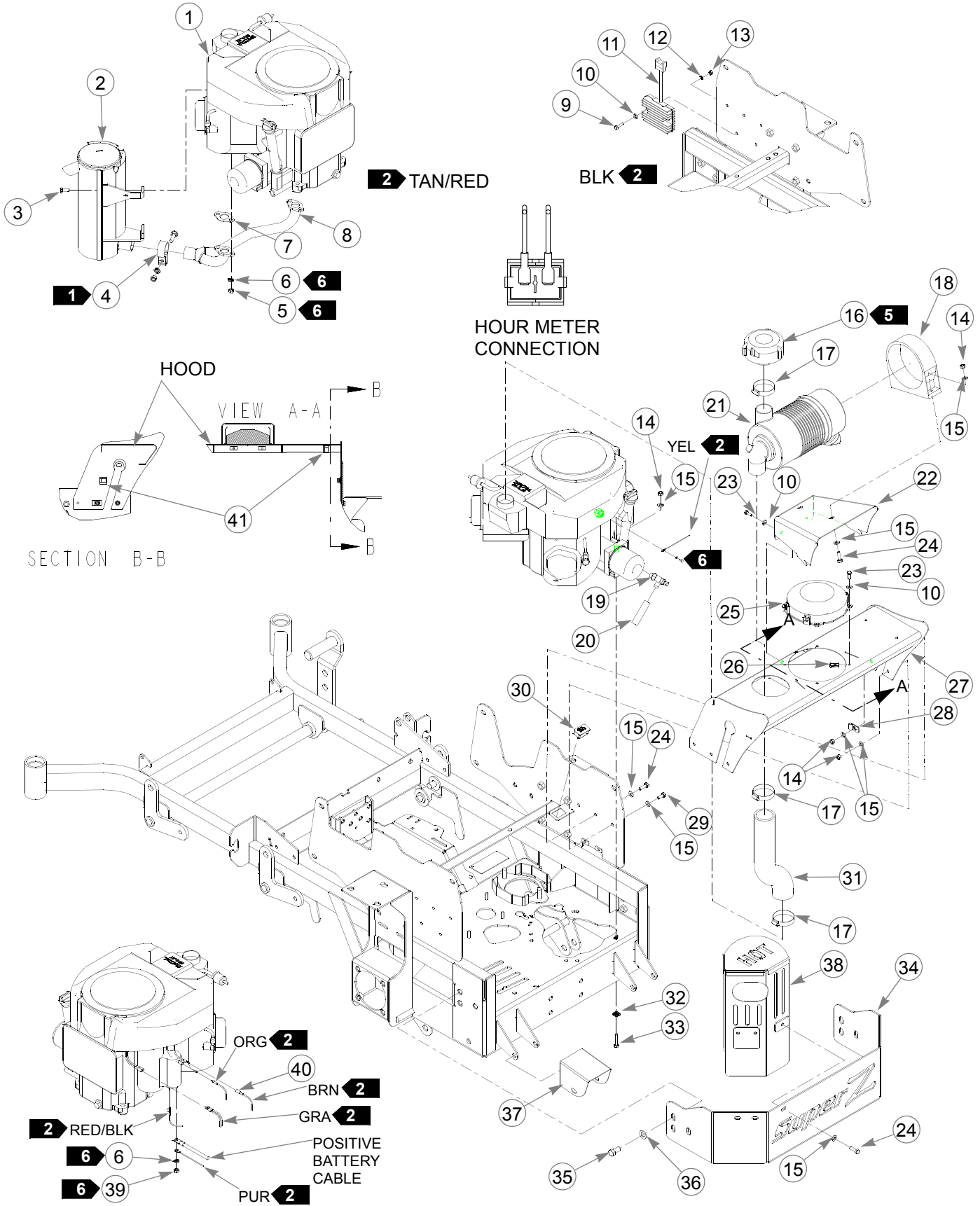
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	795617	795617	1	KAWASAKI FD731V ENGINE
2	796748	796748	1	KAWASAKI 26HP EXHAUST MANIFOLD
3	780841	780841	2	KAW (23) MUFFLER GASKET
4	017004	017004	4	LW .312 MED SPRING ZN
5	782664	782664	4	NT M8-1.25 HX STAINLESS STEEL
6	796755	796755	1	KAWASAKI 26HP LC MUFFLER
7	785378	785378	1	1.50" MUFFLER CLAMP
8	767962	767962	14	FW .531 X 1.063 X .090 SAE HD ZN
9	016527	016527	10	CS .500-13 X 1.00 HX G5 ZN
10	008193	008193	4	NT .500-13 HX G5 ZNYC
11	055939	055939	9	CS .250-20 X .75 HX G5 ZNYC
12	357780	357780	1	SUPER Z HOOD SCOOP
13	768515	768515	9	FW .281 X .625 X .051/.080 HD ZN/YL
14	783837	783837	1	ELECTRIC COOLER FAN
15	348672	348672	1	KAWASAKI LC 26HP HOOD
16	044818	044818	4	CN ZN TIN-C7343-1420
17	036236	036236	4	CS .312-18 X 1.00 HX G5 ZNYC
18	768523	768523	4	FW .343 X .687 X .051/.080 HD ZN/YL
19	024927	024927	2	NT .250-20 HX GR. 5 ZNYC
20	073866	073866	4	FW .281 X .500 X .06 ZNYC
21	104133	104133	1	SCREEN SUPPORT
22	064329	064329	2	CS .250-20 X .625 HX G5
23	030437	030437	2	MS #10-24 X .375 RD SL
24	035626	035626	2	NT #10-24 HX ZN
25	010470	010470	1	OVER CENTER LATCH ZINC
26	796524	796524	1	M20 X 2.5 OIL DRAIN VALVE
27	100800	100800	1	ENGINE AIR DEFLECTOR
28	769166	769166	1	HOUR METER
29	029876	029876	4	LW .312 INT-EXT TOOTH ZN
30	028035	028035	4	CS M 8-1.25 X 20 HX G8.8
31	100495	100495	1	SUPER Z ENGINE GUARD
32	017079	017079	1	FW .250 X .560 X .04 SAE Z
33	077545	N/A	1	NT M8-1.25-10-HX ZNYC
34	796599	796599	1	26HP KAWASAKI WIRE HARNESS

NOTES:

1. Includes mounting hardware.
2. Part of Item 24 (796599 Tractor Wire Harness).
3. Engine oil capacity, 2.4 US quarts (including filter).
4. Engine coolant capacity, 2.9 US quarts.
5. Engine RPM to be set at 3600±50.
6. Air filter service parts (see engine manual other engine service parts):

785261	MAIN AIR FILTER ELEMENT
785279	SAFETY AIR FILTER ELEMENT

Honda 24 HP Engine Installation



Honda 24 HP Engine Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	785014	785014	1	HONDA 24HP ENGINE
2	784843	784843	1	MUFFLER
3	720177	720177	2	CS M 8-1.25 X 20 10.9 HXFL ZN
1	785378	785378	1	1.50" MUFFLER CLAMP
5	782664	N/A	4	NT M8-1.25 HX STAINLESS STEEL
6	017004	N/A	4	LW .312 MED SPRING ZN
7	785543	N/A	2	HONDA (20) MUFFLER GASKET
8	784959	784959	1	MUFFLER MANIFOLD
9	056077	056077	2	CS .250-20 X 1.00 HX G5 ZNYC
10	768515	768515	4	FW .281 X .625 X .051/.080HD ZNYC
11	785477	N/A	1	HONDA 20 AMP RECTIFIER
12	017038	017038	2	LW .250 MED SPRING ZNYC
13	024927	024927	2	NT .250-20 HX GR.5 ZNYC
14	034272	034272	11	NT .312-18 HX G5 ZN
15	768523	768523	21	FW .343 X .687 X .051/.080 HD ZN/YL
16	775353	775353	1	ENGINE PRECLEANER
17	057661	057661	2	HOSE CLAMP
18	785741	785741	1	MOUNTING BAND
19	787689	787689	1	HONDA OIL DRAIN VALVE
20	787713	787713	1	0.50" LOW PRESSURE HOSE, 3.00" LONG
21	782763	782763	1	AIR CLEANER
22	357780	357780	1	HOOD SCOOP
23	055939	055939	6	CS .250-20 X .750 HX G5 ZNYC
24	036236	036236	6	CS .312-18 X 1.00 HX G5 ZNYC
25	783837	783837	1	ELECTRIC COOLER FAN
26	044818	044818	4	CN ZN TIN-C7343-1420
27	356121	356121	1	SUPER Z HOOD
28	778738	778738	1	.312 WIRING CLAMP
29	034280	034280	4	CS .312-18X .750 HX G5 ZNYC
30	769166	769166	1	HOUR METER
31	785675	785675	1	REMOTE AIR FILTER HOSE
32	029876	029876	4	LW .312 INT-EXT TOOTH ZN
33	052837	052837	4	CS .312-18 X 1.500 HX G5 ZN
34	380691	380691	1	SUPER Z ENGINE GUARD
35	016527	016527	6	CS .500-13 X 1.00 HX G5 ZNYC
36	767962	767962	6	FW .531 X 1.063 X .090 SAE HD ZN
37	377994	377994	1	MMZ ROLLER HEAT SHIELD
38	382168	382168	1	MUFFLER GUARD
39	077545	N/A	1	NT M8-1.25 X 10 HX ZNYC
40	787200	787200	1	HONDA HUSTLER SUPER Z WIRE HARNESS
41	047654	047654	2	CLIP

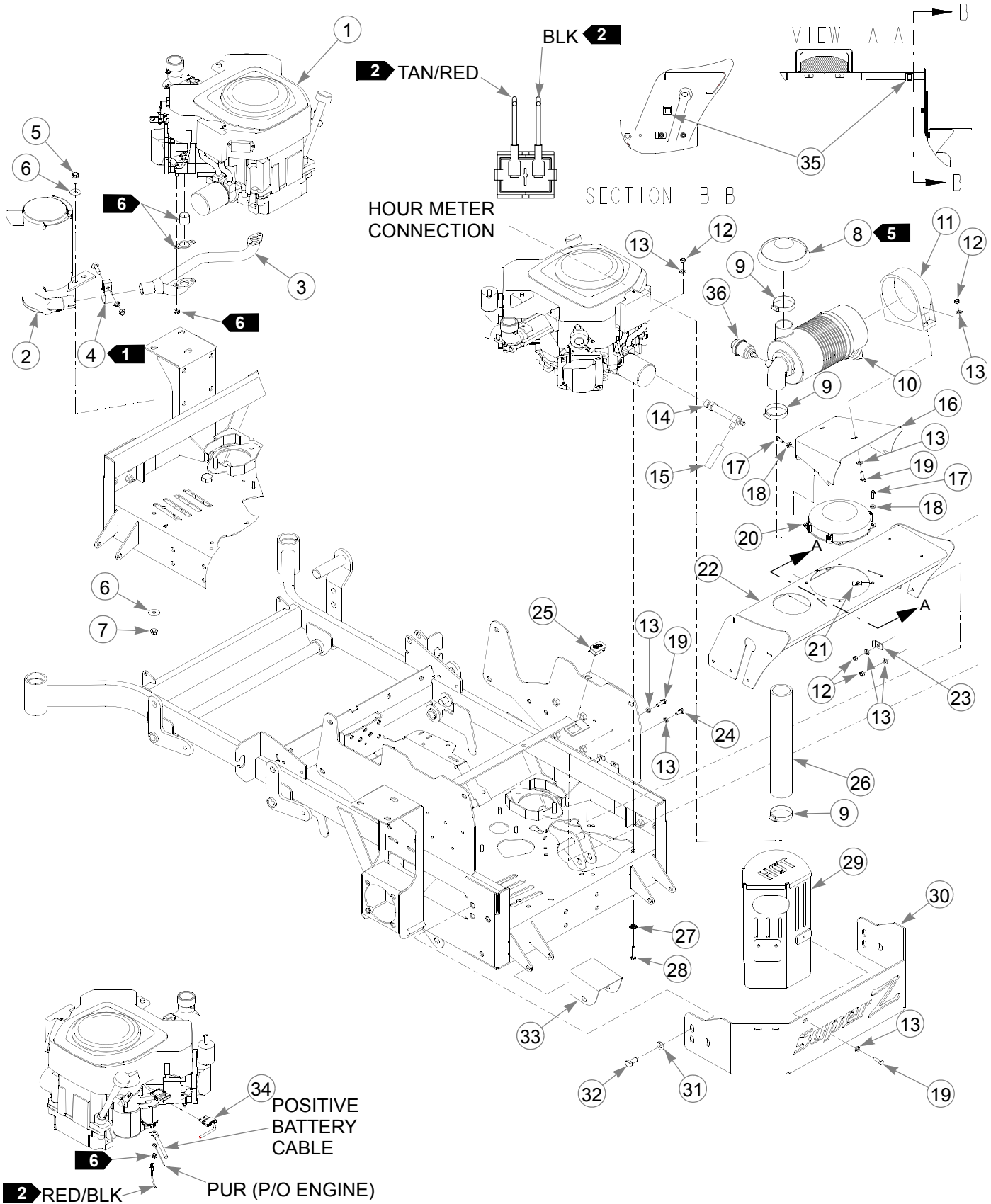
NOTES:

1. Includes mounting hardware.
2. Part of Item 40 (787200 Tractor Wire Harness).
3. Engine oil capacity; 2 US quarts.
4. Engine RPM to be set at 3600 ± 50 .
5. Includes one (1) of 057661 Hose Clamp.
6. Supplied with engine.
7. When installing lower hose clamp on air cleaner hose, install as low as possible (against carburetor inlet).
8. Air filter service parts:

785261	MAIN AIR FILTER ELEMENT
763318	VACUATOR VALVE

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Kohler 27 HP Engine Installation



Kohler 27 HP Engine Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	788216	788216	1	KOHLER 27HP ENGINE
2	788018	788018	1	MUFFLER
3	788026	788026	1	MUFFLER MANIFOLD
1	785378	785378	1	1.50" MUFFLER CLAMP
5	029751	029751	2	CS .375-16 X 1.00 HXFLK ZNYC
6	705137	705137	4	FW .391 X 1.250 X .060 ZNYC
7	016899	016899	2	NT .375-16 HXFLK ZNYC
8	786673	786673	1	DONALDSON AIR CLEANER CAP
9	057661	057661	2	HOSE CLAMP
10	782763	782763	1	AIR CLEANER
11	785741	785741	1	MOUNTING BAND
12	034272	034272	11	NT .312-18 HX G5 ZN
13	768523	768523	21	FW .343 X .687 X .051/.080 HD ZN/YL
7	796672	796672	1	3/8-18 OIL DRAIN VALVE
7	787713	787713	1	0.50" LOW PRESSURE HOSE
16	357780	357780	1	HOOD SCOOP
17	055939	055939	6	CS .250-20 X .750 HX G5 ZNYC
18	768515	768515	6	FW .281 X .625 X .051/.080 HD ZNYC
19	036236	036236	6	CS .312-18 X 1.00 HX G5 ZNYC
20	783837	783837	1	ELECTRIC COOLER FAN
21	044818	044818	4	CN ZN TIN-C7343-1420
22	356121	356121	1	SUPER Z HOOD
23	778738	778738	1	.312 WIRING CLAMP
24	034280	034280	4	CS .312-18X .750 HX G5 ZNYC
25	769166	769166	1	HOUR METER
26	795310	795310	1	REMOTE AIR FILTER HOSE
27	029876	029876	4	LW .312 INT-EXT TOOTH ZN
28	052837	052837	4	CS .312-18 X 1.500 HX G5 ZN
29	382168	382168	1	MUFFLER GUARD
30	380691	380691	1	SUPER Z ENGINE GUARD
31	767962	767962	6	FW .531 X 1.063 X .090 SAE HD ZN
32	016527	016527	6	CS .500-13 X 1.00 HX G5 ZNYC
33	377994	377994	1	MMZ ROLLER HEAT SHIELD
34	788000	788000	1	SUPER Z KOHLER WIRE HARNESS
35	047654	047654	2	CLIP
36	788943	788943	1	AIR FILTER INDICATOR

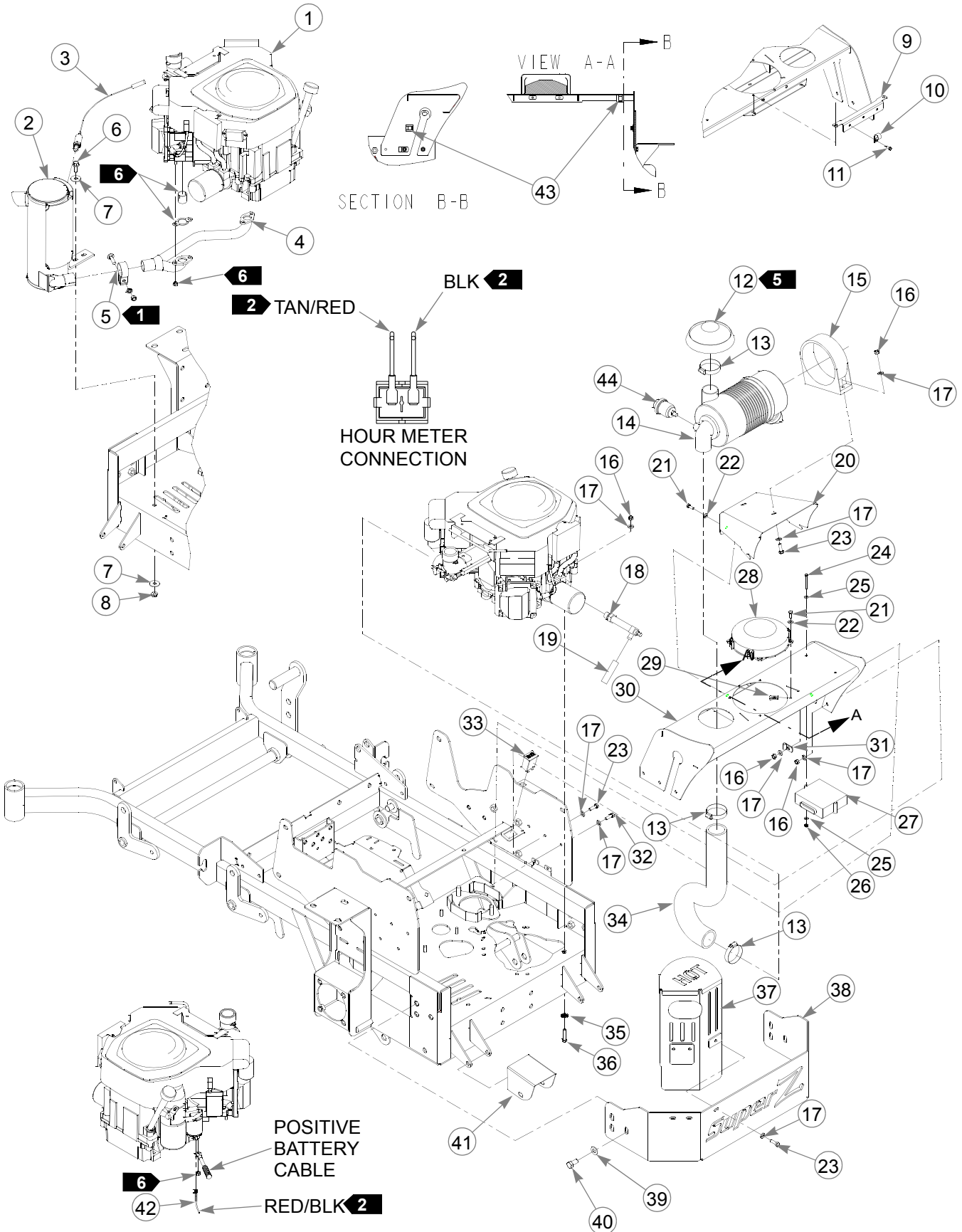
NOTES:

1. Includes mounting hardware.
2. Part of Item 34 (788000 Tractor Wire Harness).
3. Engine oil capacity; 2 US quarts.
4. Engine RPM to be set at 3600 ± 50 .
5. Includes one (1) of 057661 Hose Clamp.
6. Supplied with engine.
7. Used on mowers with serial numbers 05031839 and higher. This part replaces drain hose, 90° fitting, and drain plug, on mowers with serial numbers prior to 05031839.
8. Air filter service parts:

785261	MAIN AIR FILTER ELEMENT
763318	VACUATOR VALVE

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Kohler 28 HP EFI Engine Installation



Kohler 28 HP EFI Engine Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
	788224	788224	1	KOHLER CV745 EFI ENGINE
	789123	789123	1	MUFFLER
	791442	N/A	1	KOHLER EFI OXYGEN SENSOR
	788026	788026	1	MUFFLER MANIFOLD
1	785378	785378	1	1.50" MUFFLER CLAMP
	029751	029751	2	CS .375-16 X 1.00 HXFLK ZNYC
	705137	705137	4	FW .391 X 1.250 X .060 ZNYC
	016899	016899	2	NT .375-16 HXFLK ZNYC
	301986	301986	1	FUSE/RELAY MOUNT PLATE
	042960	042960	1	CLIP CFV-0609
	060731	060731	3	CS 10-24X .500 HXFLK ZNYC
	786673	786673	1	DONALDSON AIR CLEANER CAP
	057661	057661	2	HOSE CLAMP
	782763	782763	1	AIR CLEANER
	785741	785741	1	MOUNTING BAND
	034272	034272	11	NT .312-18 HX G5 ZN
	768523	768523	21	FW .343 X .687 X .051/.080 HD ZN/YL
7	796672	796672	1	3/8-18 OIL DRAIN VALVE
	787713	787713	1	0.50" LOW PRESSURE HOSE
	357780	357780	1	HOOD SCOOP
	055939	055939	6	CS .250-20 X .750 HX G5 ZNYC
	768515	768515	6	FW .281 X .625 X .051/.080 HD ZNYC
	036236	036236	7	CS .312-18 X 1.00 HX G5 ZNYC
	791434	791434	2	CS 10-24 X 2.00 HX G5 ZNYC
	704932	704932	4	FW .219 X .500 X .048 ZNYC
	059832	059832	2	NT #10-24 HX NL ZN
	789602	N/A	1	KOHLER EFI ECU
	783837	783837	1	ELECTRIC COOLER FAN
	044818	044818	4	CN ZN TIN-C7343-1420
	356121	356121	1	SUPER Z HOOD
	778738	778738	1	.312 WIRING CLAMP
	034280	034280	3	CS .312-18X .750 HX G5 ZNYC
	769166	769166	1	HOUR METER
	788034	788034	1	REMOTE AIR FILTER HOSE
	029876	029876	4	LW .312 INT-EXT TOOTH ZN
	052837	052837	4	CS .312-18 X 1.500 HX G5 ZN
	382168	382168	1	MUFFLER GUARD
	380691	380691	1	SUPER Z ENGINE GUARD
	767962	767962	6	FW .531 X 1.063 X .090 SAE HD ZN
	016527	016527	6	CS .500-13 X 1.00 HX G5 ZNYC
	377994	377994	1	MMZ ROLLER HEAT SHIELD
	789560	789560	1	SUPER Z KOHLER EFI WIRE HARNESS
	047654	047654	2	CLIP
	788943	788943	1	AIR FILTER INDICATOR

NOTES:

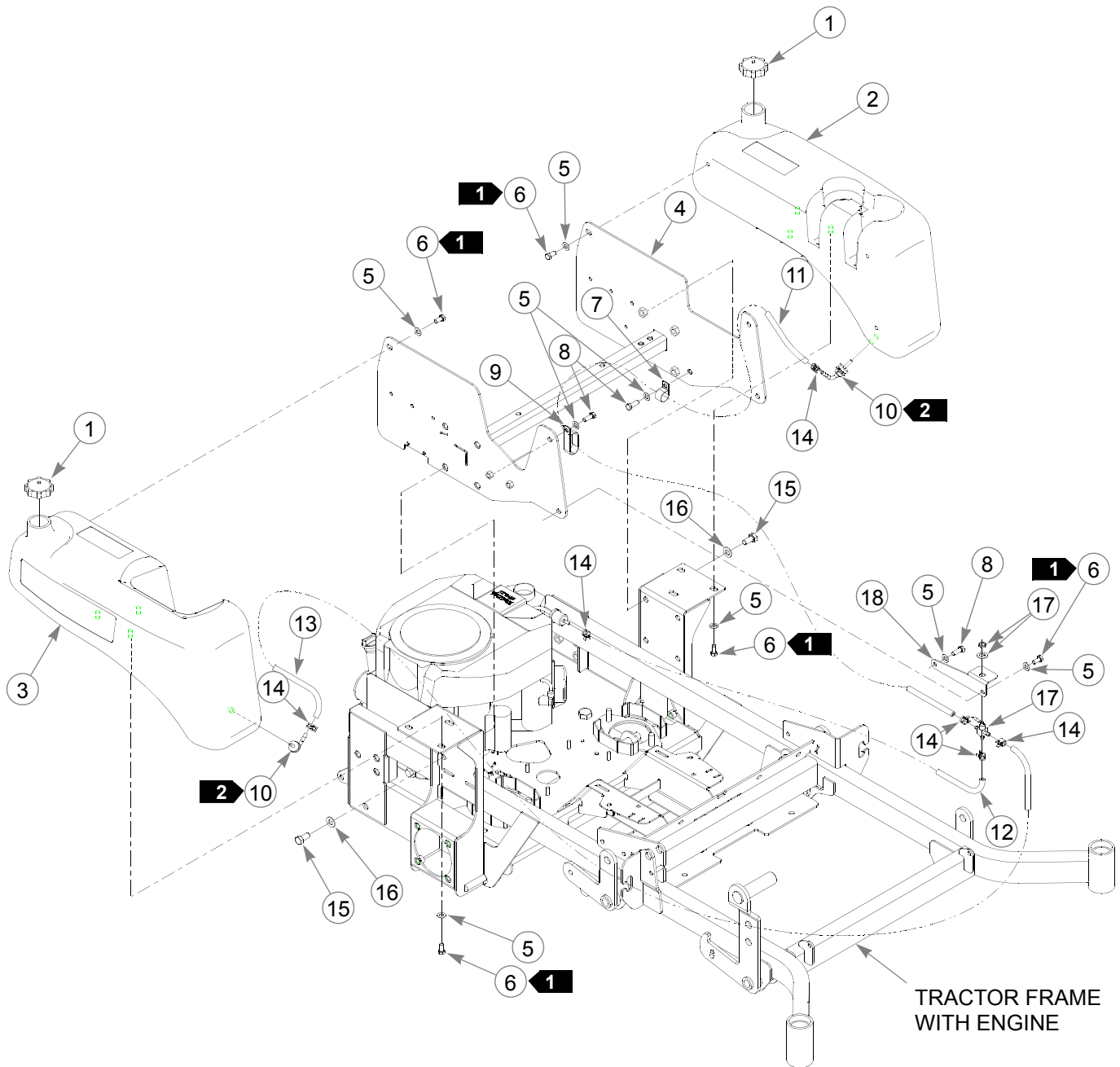
1. Includes mounting hardware.
2. Part of Item 42 (789560 Tractor Wire Harness).
3. Engine oil capacity; 2 US quarts.
4. Engine RPM to be set at 3600 ± 50 .
5. Includes one (1) of 057661 Hose Clamp.
6. Supplied with engine.
7. Used on mowers with serial numbers 05031839 and higher. This part replaces "O" ring , drain extension, and drain plug, on mowers with serial numbers prior to 05031839.

Air filter service parts:

785261	MAIN AIR FILTER ELEMENT
763318	VACUATOR VALVE

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Fuel System – Air Cooled Engines With Carburetor 3



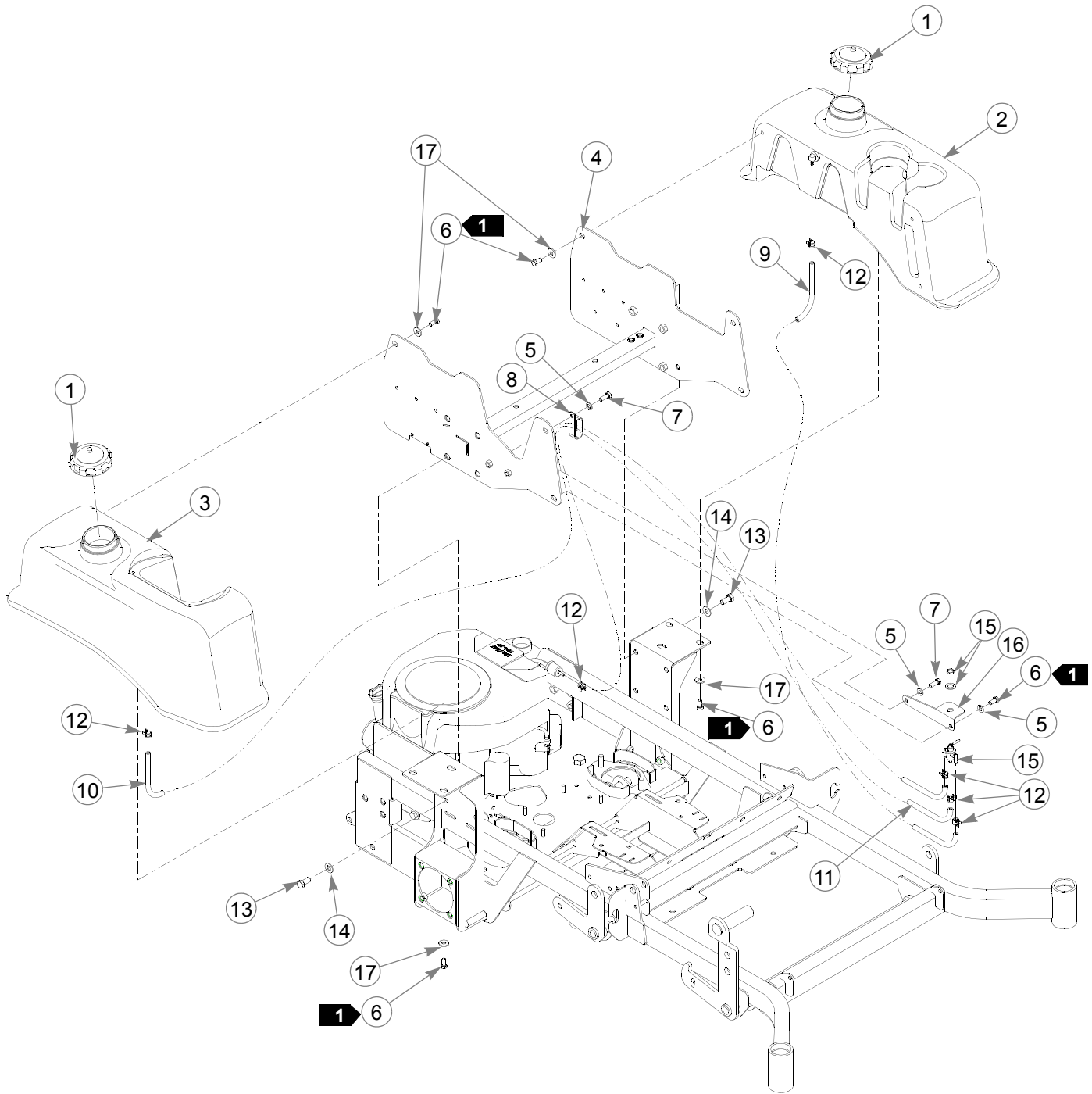
Fuel System—Air Cooled Engines With Carburetor **3**

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	784181	784181	2	FUEL TANK CAP
2	796326	796326	1	LEFT SIDE SUPER Z FUEL TANK
3	796318	796318	1	RIGHT SIDE SUPER Z FUEL TANK
4	349944	349944	1	REAR SEAT SUPPORT
5	767954	767954	3	FW .406 X .812 X .060 SAE HD ZN
6	055822	055822	12	CS .375-16 X .750 HX G5 ZN
7	000398	000398	1	CLAMP
8	036244	036244	2	CS .375-16 X 1.000 HX G5 ZN
9	045088	045088	1	HOSE CLAMP 1"
10	791277	N/A	2	FUEL TANK 90° FITTING
11	015818	015818	1	FUEL LINE 50" TOTAL
12	015818	015818	1	FUEL LINE 25" TOTAL (HONDA/KAWASAKI)
12	015818	015818	1	FUEL LINE 39" TOTAL (KOHLE 27 HP)
13	015818	015818	1	FUEL LINE 7" TOTAL
14	000323	000323	6	CLIP
15	016527	016527	8	CS .500-13 X 1.00 HX G5 ZN
16	767962	767962	8	FW .531 X 1.063 X .090 SAE HD ZN
17	745059	745059	1	3-WAY FUEL VALVE
18	347989	347989	1	FUEL SHUT-OFF BRACKET
	000331	000331	3	BLACK CABLE TIE (NOT SHOWN)

NOTES:

1. Torque to 20 ft.-lbs.
2. Included with new fuel tank.
3. Used on mowers with serial number prior to 05042114.

Fuel System—Air Cooled Engines With Carburetor **2**



Fuel System—Air Cooled Engines With Carburetor **2**

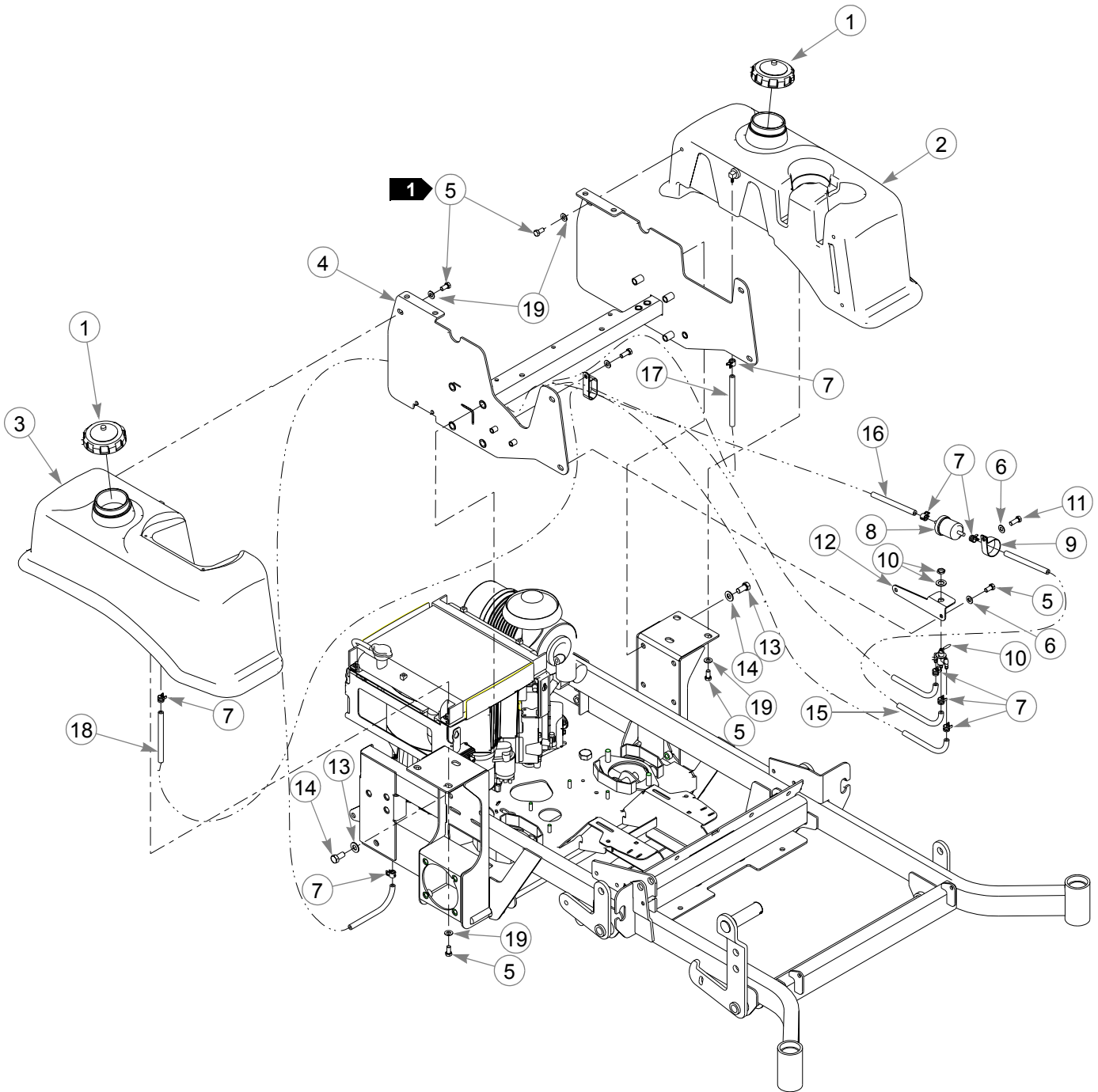
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	779306	779306	2	FUEL TANK CAP
2	793240	793240	1	LEFT SIDE FUEL TANK
3	796318	796318	1	RIGHT SIDE FUEL TANK
4	349944	349944	1	REAR SEAT SUPPORT
5	767954	767954	3	FW .406 X .812 X .060 SAE HD ZN
6	055822	055822	14	CS .375-16 X .750 HX G5 ZN
7	036244	036244	2	CS .375-16 X 1.000 HX G5 ZN
8	045088	045088	1	HOSE CLAMP 1"
9	015818	015818	1	FUEL LINE 45.5" TOTAL
10	015818	015818	1	FUEL LINE 26.5" TOTAL
11	015818	015818	1	FUEL LINE 22.5" TOTAL (KAWASAKI)
	015818	015818	1	FUEL LINE 36" TOTAL (HONDA)
	015818	015818	1	FUEL LINE 42" TOTAL (KOHLER)
12	000323	000323	6	CLIP
13	016527	016527	8	CS .500-13 X 1.00 HX G5 ZN
14	767962	767962	8	FW .531 X 1.063 X .090 SAE HD ZN
15	797084	797084	1	3-WAY FUEL VALVE
16	347989	347989	1	FUEL SHUT-OFF BRACKET
17	712919	712919	11	FW .406X 1.00X.12 HRD Z
	000331	000331	3	BLACK CABLE TIE (NOT SHOWN)

NOTES:

1. Torque to 20 ft.-lbs/27.1 N-m.
2. Used on mowers with serial number 05042114 and higher.
3. Service parts for fuel tanks (not shown):

PART NO.	DESCRIPTION
785295	FLANGE GROMMET
794107	1/4 ID, 3/8 OD, 1/16 WALL TUBING
794081	1/4 DIP TUBE WEIGHT FITTING
792986	1/4 X 1/4 ELBOW FITTING

Fuel System—Liquid Cooled Engines With Carburetor



Fuel System—Liquid Cooled Engines With Carburetor

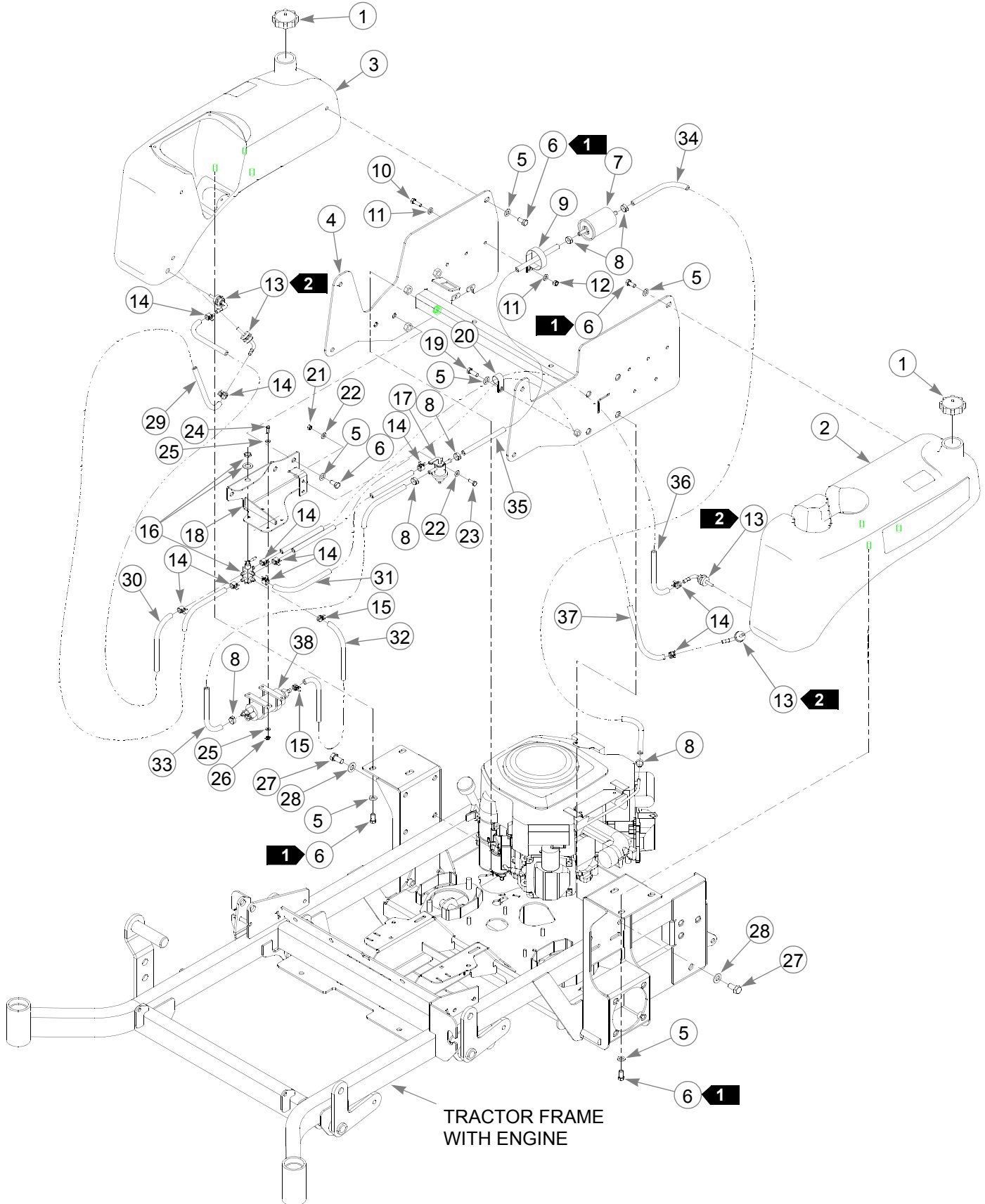
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	779306	779306	2	3.5" FUEL TANK CAP
2	793240	793240	1	LEFT SIDE Z FUEL TANK
3	793232	793232	1	RIGHT SIDE Z FUEL TANK
4	348615	348615	1	REAR SEAT SUPPORT
5	055822	055822	12	CS .375-16 X .750 HX G5 ZN
6	767954	767954	2	FW .406 X .812 X .060 SAE HD ZN
7	000323	000323	8	CLIP
8	068478	068478	1	IN-LINE FUEL FILTER
9	797035	797035	1	1.75"DIA RUBBER COATED CLAMP
10	797084	797084	1	3-WAY NYLON FUEL VALVE
11	036244	036244	1	CS .375-16 X 1.00 HX G5 ZNYC
12	347989	347989	1	FUEL SHUT-OFF BRACKET
13	016527	016527	8	CS .500-13 X 1.00 HX G5 ZN
14	767962	767962	8	FW .531 X 1.063 X .090 SAE HD ZN
15	015818	015818	1	FUEL LINE 6"
16	015818	015818	1	FUEL LINE 26.75"
17	015818	015818	1	FUEL LINE 45.375"
18	015818	015818	1	FUEL LINE 29"
19	712919	712919	11	FW .406X 1.00X.12 HRD Z
	000331	000331	3	BLACK CABLE TIE (NOT SHOWN)

NOTES:

1. Torque to 20 ft.-lbs.
2. Service parts for fuel tanks (not shown):

PART NO.	DESCRIPTION
799197	TANK ASSY, SUCTION

Fuel System—With EFI **3**



Fuel System—With EFI **3**

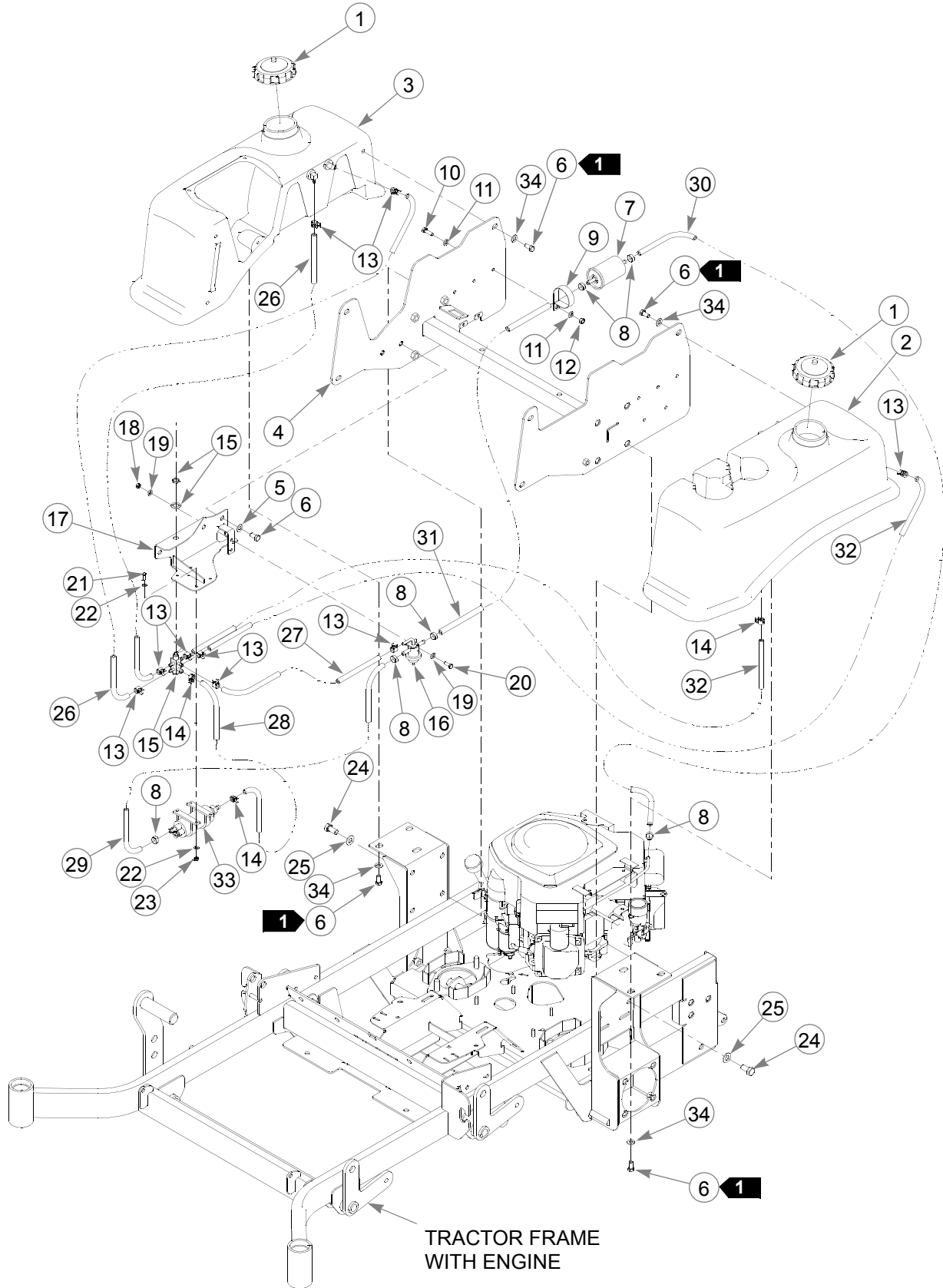
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	784181	784181	2	FUEL TANK CAP
2	796425	796425	1	LEFT SIDE SUPER Z FUEL TANK
3	796417	796417	1	RIGHT SIDE SUPER Z FUEL TANK
4	349944	349944	1	REAR SEAT SUPPORT
5	767954	767954	15	FW .406 X .812 X .060 SAE HD ZN
6	055822	055822	14	CS .375-16 X .750 HX G5 ZN
7	789628	N/A	1	KOHLER EFI FUEL FILTER
8	791418	791418	6	5/16 CRIMP FUEL LINE CLAMP
9	791301	791301	1	CLAMP
10	036236	N/A	1	CS .312-18 X 1.00 HX G5 ZNYC
11	768523	N/A	2	FW .343X.687X.051/.080HD ZNYC
12	034272	N/A	1	NT .312-18 HX G5 ZN
13	791277	N/A	4	FUEL TANK 90 DEG FITTING
14	000323	000323	10	CLIP
15	041491	041491	2	HOSE CLAMP
16	791269	791269	1	3-WAY DOUBLE FUEL VALVE
17	789636	N/A	1	KOHLER EFI FUEL REGULATOR
18	398370	398370	1	EFI FUEL MOUNT
19	036244	036244	1	CS .375-16 X 1.00 HX G5 ZNYC
20	043570	043570	1	SINGLE HOSE CLIP
21	024927	024927	2	NT .250-20 HX GR.5 ZNYC
22	768515	768515	4	FW .281 X .625 X .051/.080 HD ZNYC
23	055939	055939	2	CS .250-20 X .75 HX G5 ZNYC
24	714998	714998	4	MS #10-24 X .625 HX ZN
25	704932	704932	8	FW .219 X .500 X .048 ZNYC
26	059832	059832	4	NT #10-24 HX NL ZN
27	016527	016527	8	CS .500-13 X 1.00 HX G5 ZN
28	767962	767962	8	FW .531 X 1.063 X .090 SAE HD ZN
29	015818	015818	1	FUEL LINE 10.0"
30	015818	015818	1	FUEL LINE 7.5"
31	015818	015818	1	FUEL LINE 8.0"
32	791400	791400	1	MULTI FUEL INJECTION FUEL LINE 12.0"
33	791400	791400	1	MULTI FUEL INJECTION FUEL LINE 16.0"
34	791400	791400	1	MULTI FUEL INJECTION FUEL LINE 21.5"
35	791400	791400	1	MULTI FUEL INJECTION FUEL LINE 18.0"
36	015818	015818	1	FUEL LINE 47.0"
37	015818	015818	1	FUEL LINE 47.0"
38	789610	789610	1	KOHLER EFI FUEL PUMP
	000331	000331	3	BLACK CABLE TIE (NOT SHOWN)

NOTES:

1. Torque to 20 ft.-lbs.
2. Included with new fuel tank.
3. Used on mowers with serial number prior to 05042114.

Fuel System - With EFI

2



Fuel System—With EFI

2

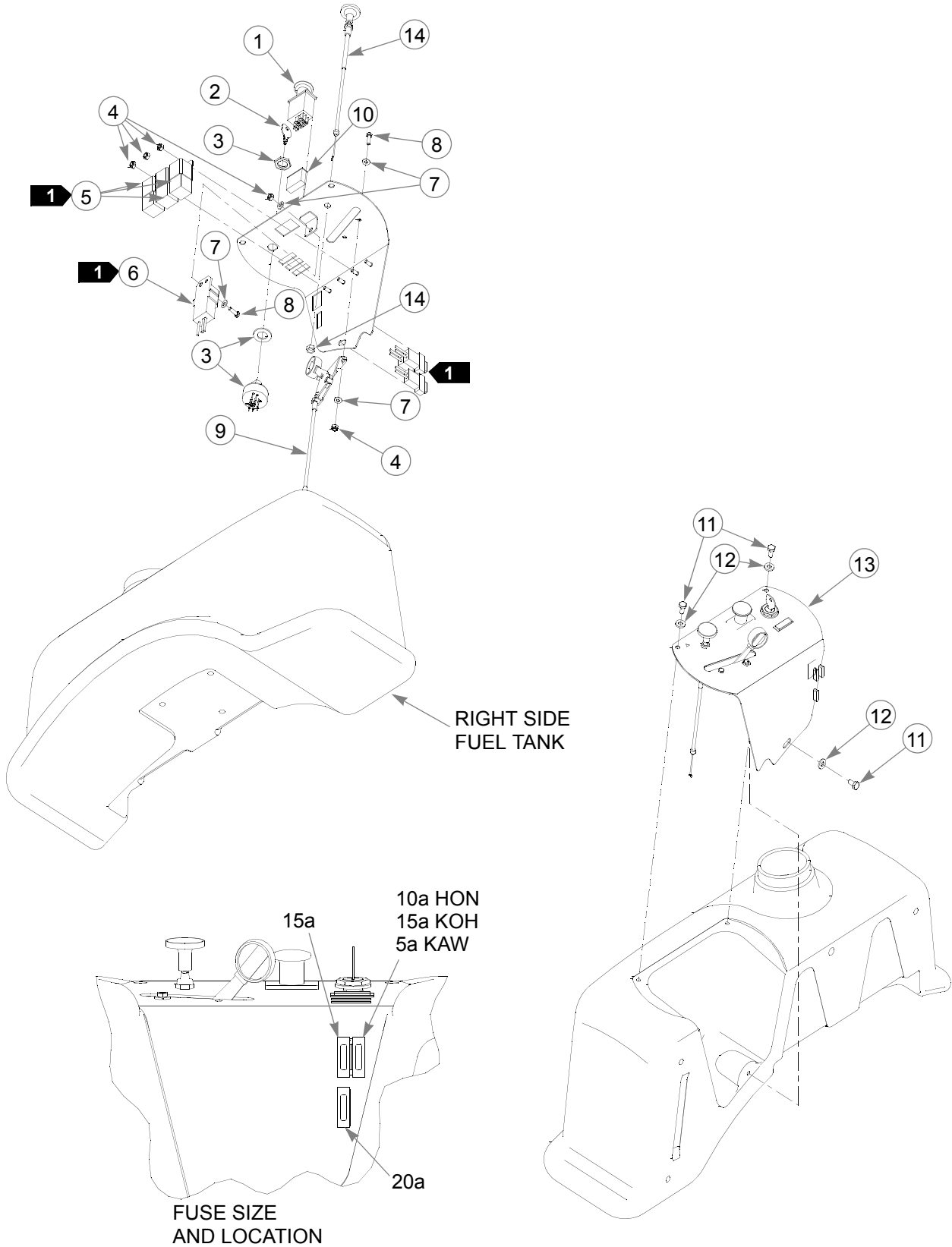
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	784181	784181	2	FUEL TANK CAP
2	796425	796425	1	LEFT SIDE SUPER Z FUEL TANK
3	796417	796417	1	RIGHT SIDE SUPER Z FUEL TANK
4	349944	349944	1	REAR SEAT SUPPORT
5	767954	767954	3	FW .406 X .812 X .060 SAE HD ZN
6	055822	055822	14	CS .375-16 X .750 HX G5 ZN
7	789628	N/A	1	KOHLER EFI FUEL FILTER
8	791418	791418	6	5/16 CRIMP FUEL LINE CLAMP
9	791301	791301	1	CLAMP
10	036236	N/A	1	CS .312-18 X 1.00 HX G5 ZNYC
11	768523	N/A	2	FW .343X.687X.051/.080HD ZNYC
12	034272	N/A	1	NT .312-18 HX G5 ZN
13	000323	000323	10	CLIP
14	041491	041491	2	HOSE CLAMP
15	791269	791269	1	3-WAY DOUBLE FUEL VALVE
16	789636	N/A	1	KOHLER EFI FUEL REGULATOR
17	398370	398370	1	EFI FUEL MOUNT
18	024927	024927	2	NT .250-20 HX GR.5 ZNYC
19	768515	768515	4	FW .281 X .625 X .051/.080 HD ZNYC
20	055939	055939	2	CS .250-20 X .75 HX G5 ZNYC
21	714998	714998	4	MS #10-24 X .625 HX ZN
22	704932	704932	8	FW .219 X .500 X .048 ZNYC
23	059832	059832	4	NT #10-24 HX NL ZN
24	016527	016527	8	CS .500-13 X 1.00 HX G5 ZN
25	767962	767962	8	FW .531 X 1.063 X .090 SAE HD ZN
26	015818	015818	2	FUEL LINE 36.5"
27	015818	015818	1	FUEL LINE 8.25"
28	791400	791400	1	MULTI FUEL INJECTION FUEL LINE 13.0"
29	791400	791400	1	MULTI FUEL INJECTION FUEL LINE 36.5"
30	791400	791400	1	MULTI FUEL INJECTION FUEL LINE 21.5"
31	791400	791400	1	MULTI FUEL INJECTION FUEL LINE 18.0"
32	015818	015818	2	FUEL LINE 47.0"
33	789610	789610	1	KOHLER EFI FUEL PUMP
34	712919	712919	11	FW .406X 1.00X.12 HRD Z
	000331	000331	3	BLACK CABLE TIE (NOT SHOWN)

NOTES:

1. Torque to 20 ft.-lbs.
2. Used on mowers with serial number 05042114 and higher.
3. Service parts for fuel tanks (not shown):

PART NO.	DESCRIPTION
799197	HOSE ASSY, SUCTION
794735	FUEL RETURN ASSEMBLY

Instrument Panel Assembly—Air Cooled Engines



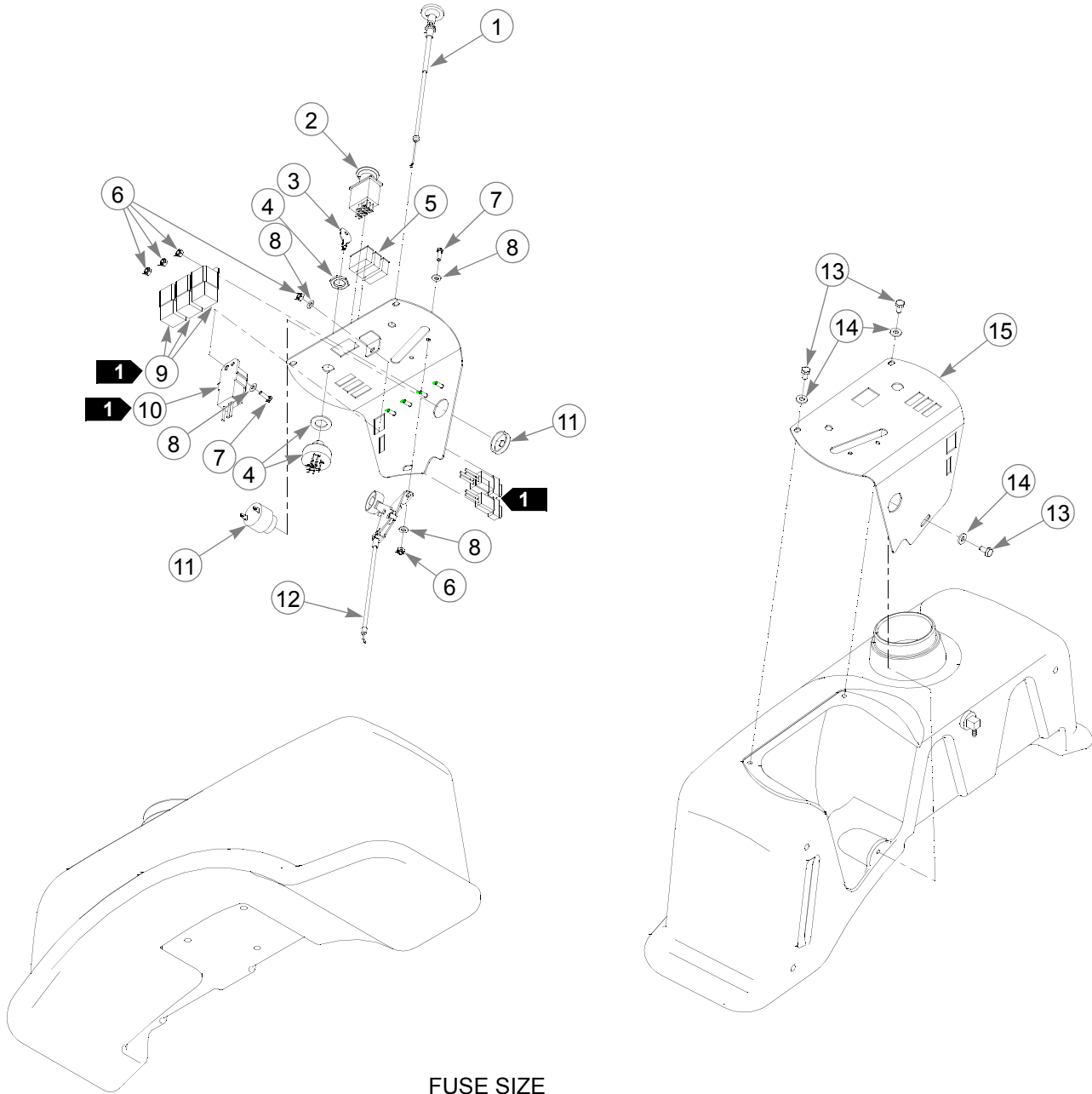
Instrument Panel Assembly–Air Cooled Engines

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	776476	776476	1	PTO SWITCH
2	083022	N/A	2	IGNITION KEY
	785808	785808	1	INDAK COATED KEY
3	045898	045898	1	KEY SWITCH
4	059832	059832	6	NT #10-24 HX NL ZN
	059832	059832	5	NT #10-24 HX NL ZN (KOHLER 28 HP EFI ONLY)
5	026237	N/A	3	RELAY
	026237	N/A	2	RELAY (KOHLER 28 HP EFI ONLY)
6	762195	N/A	1	DELAY MODULE
7	704932	704932	6	FW .219 X .500 X .048 ZN
8	714998	714998	3	MS #10-24 X .625 HX ZN
9	778365	778365	1	THROTTLE/CHOKE CABLE
	787788	787788	1	THROTTLE CABLE ASS'Y. (KOHLER 28 HP EFI ONLY)
10	712257	712257	1	RED INDICATOR LIGHT
	712257	712257	2	RED INDICATOR LIGHT (KOHLER 28 HP EFI ONLY)
11	055947	055947	3	CS .250-20 X .500 HX G5 ZN
12	768515	768515	3	FW .281 X .625 X .051 / .080 HD ZN/YL
13	349308	349308	1	INSTRUMENT PANEL
14	785030	785030	1	Z CHOKE CABLE (KAWASAKI)
	786657	786657	1	CHOKE CABLE (HONDA/KOHLER CARB.)

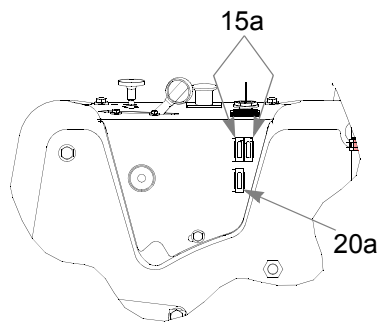
NOTES:

1. Part of 783894 / 787200 / 788000 / 789560 (Wire Harness)

Instrument Panel—Liquid Cooled Engines



FUSE SIZE AND LOCATION



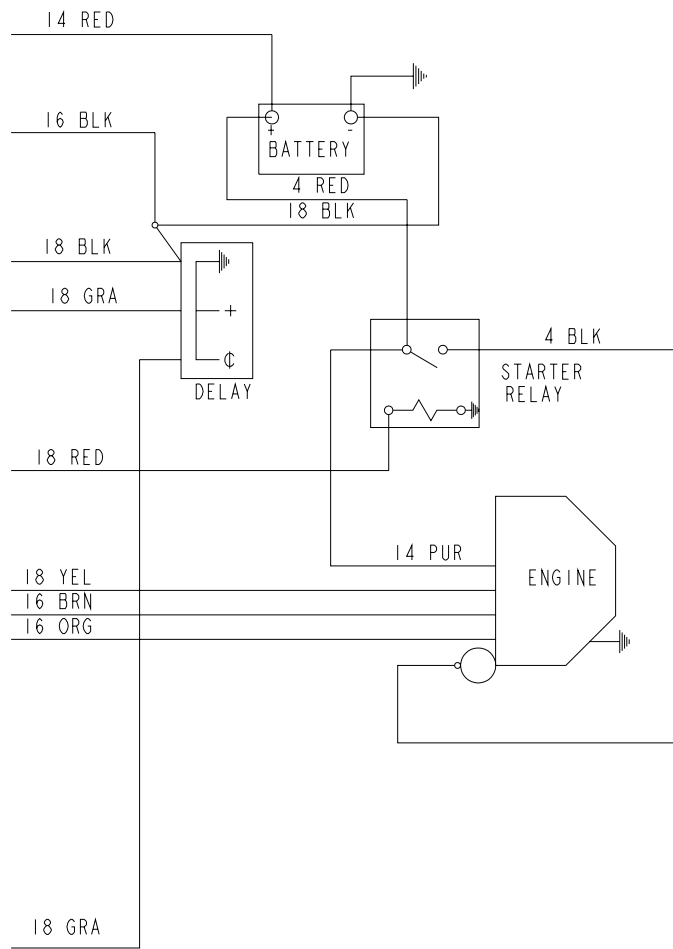
Instrument Panel–Liquid Cooled Engines

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	785030	785030	1	CHOKE CABLE
2	776476	776476	1	PTO SWITCH
3	083022	N/A	2	IGNITION KEY
	785808	785808	1	INDAK COATED KEY
4	045898	045898	1	KEY SWITCH
5	712257	712257	3	RED INDICATOR LIGHT
6	059832	059832	6	NT #10-24 HX NL ZN
7	714998	714998	3	MS #10-24 X .625 HX ZN
8	704932	704932	6	FW .219 X .500 X .048 ZN
9	026237	N/A	3	RELAY
10	762195	N/A	1	DELAY MODULE
11	794347	794347	1	ULTRA LOUD WARBLE ALARM
12	787788	787788	1	THROTTLE CABLE
13	055947	055947	3	CS .250-20 X .500 HX G5 ZN
14	768515	768515	3	FW .281 X .625 X .051 / .080 HD ZN/YL
15	352716	352716	1	INSTRUMENT PANEL

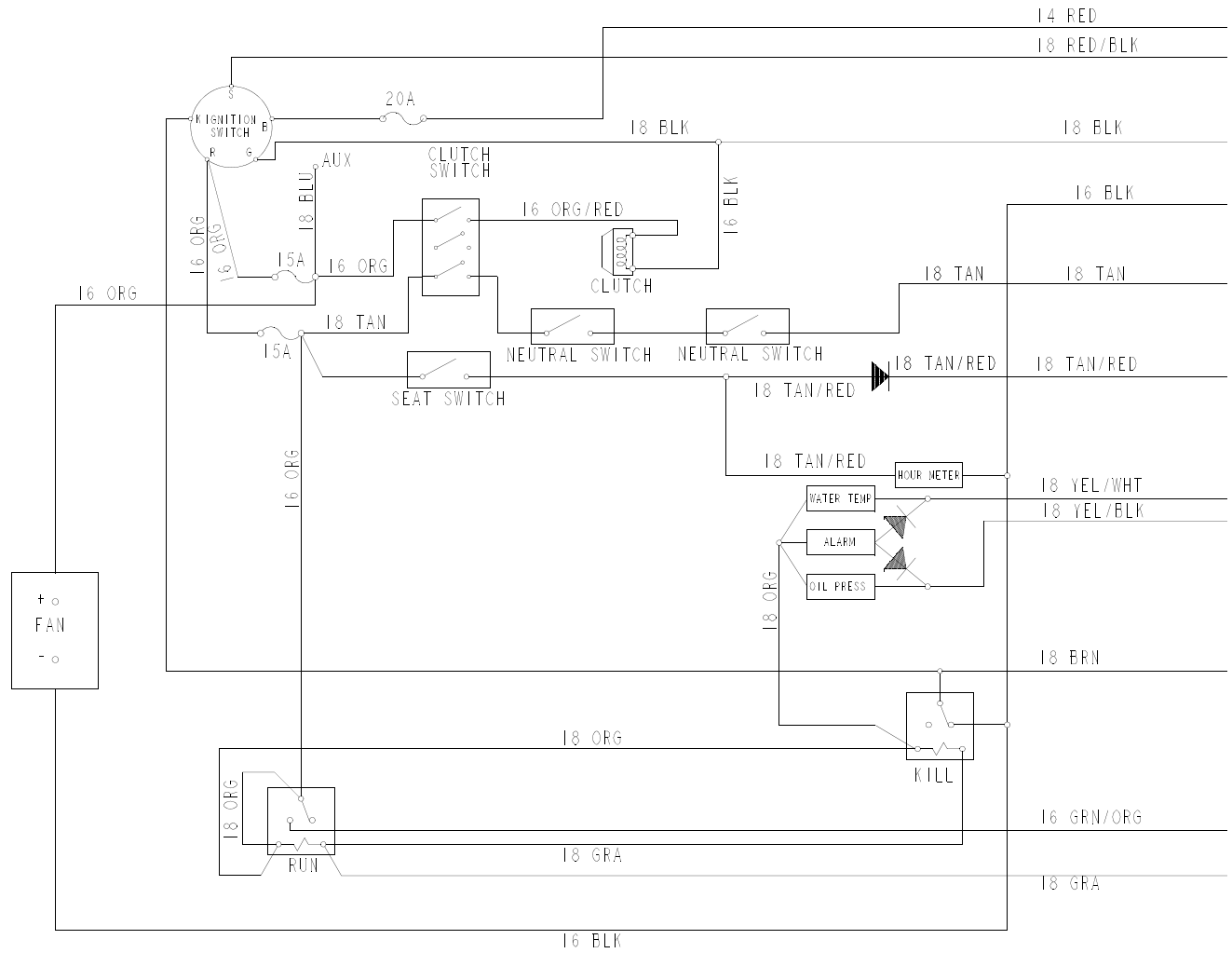
NOTES:

1. Part of 796566 (Wire Harness)

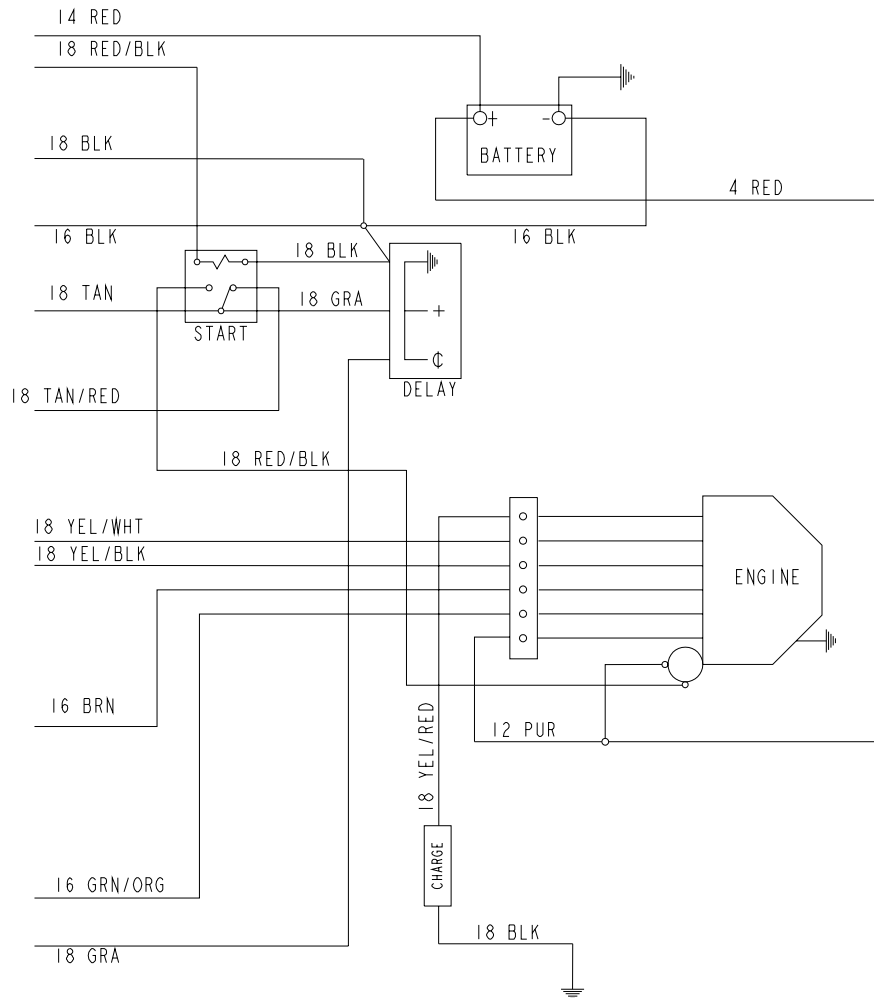
Electrical Schematic - Kawasaki (783894)



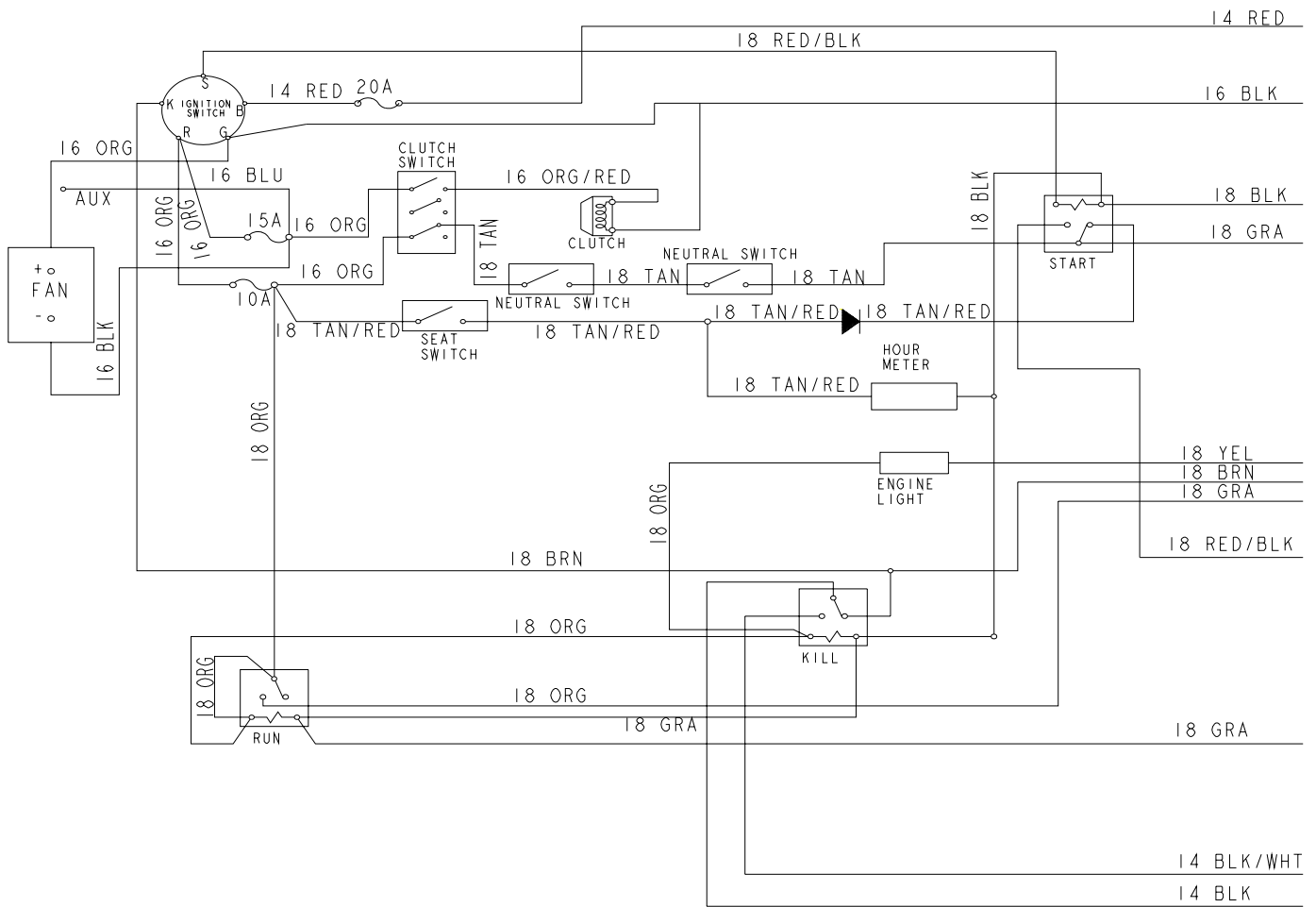
Electrical Schematic - Kawasaki (796599)



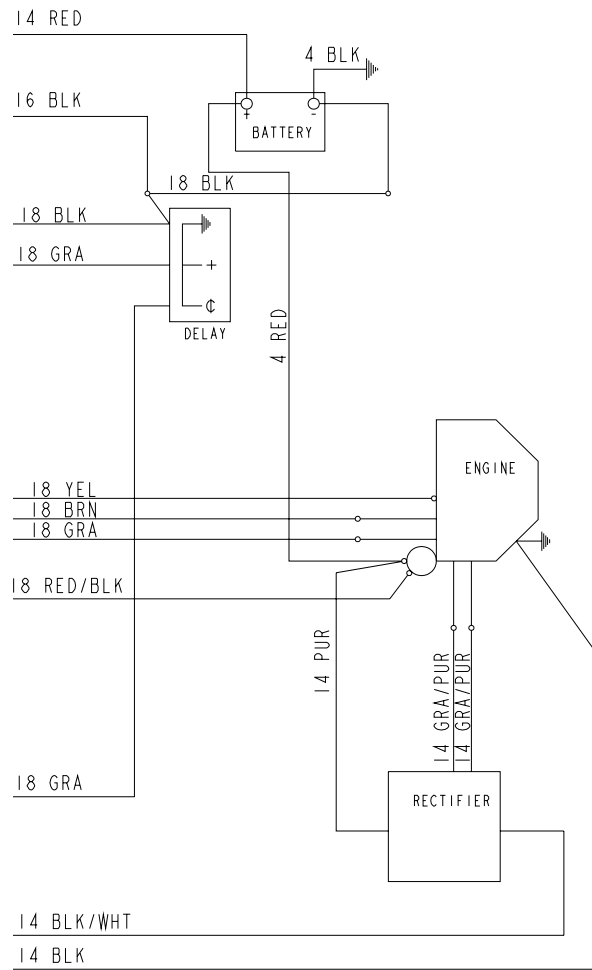
Electrical Schematic - Kawasaki (796599)



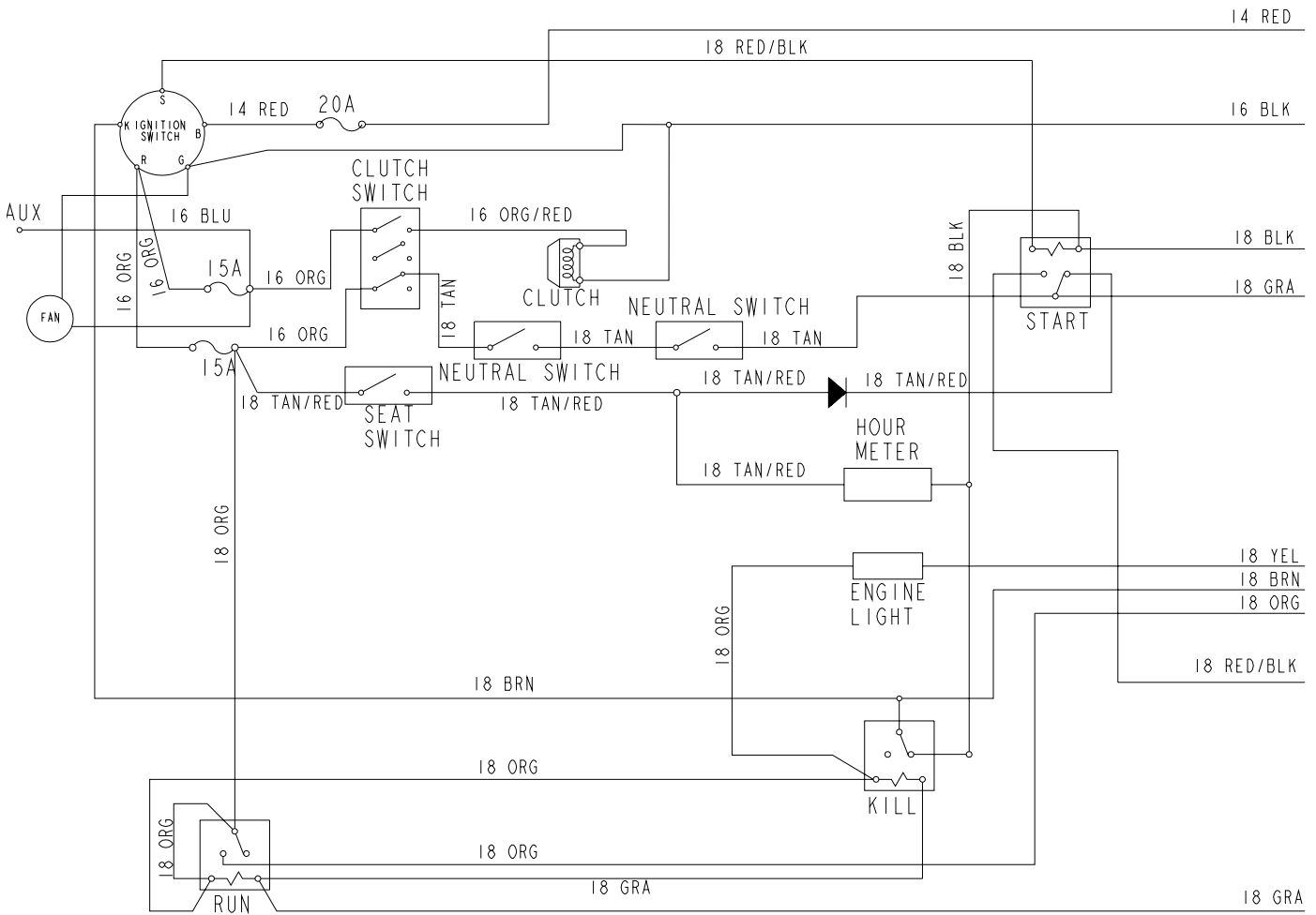
Electrical Schematic - Honda (787200)



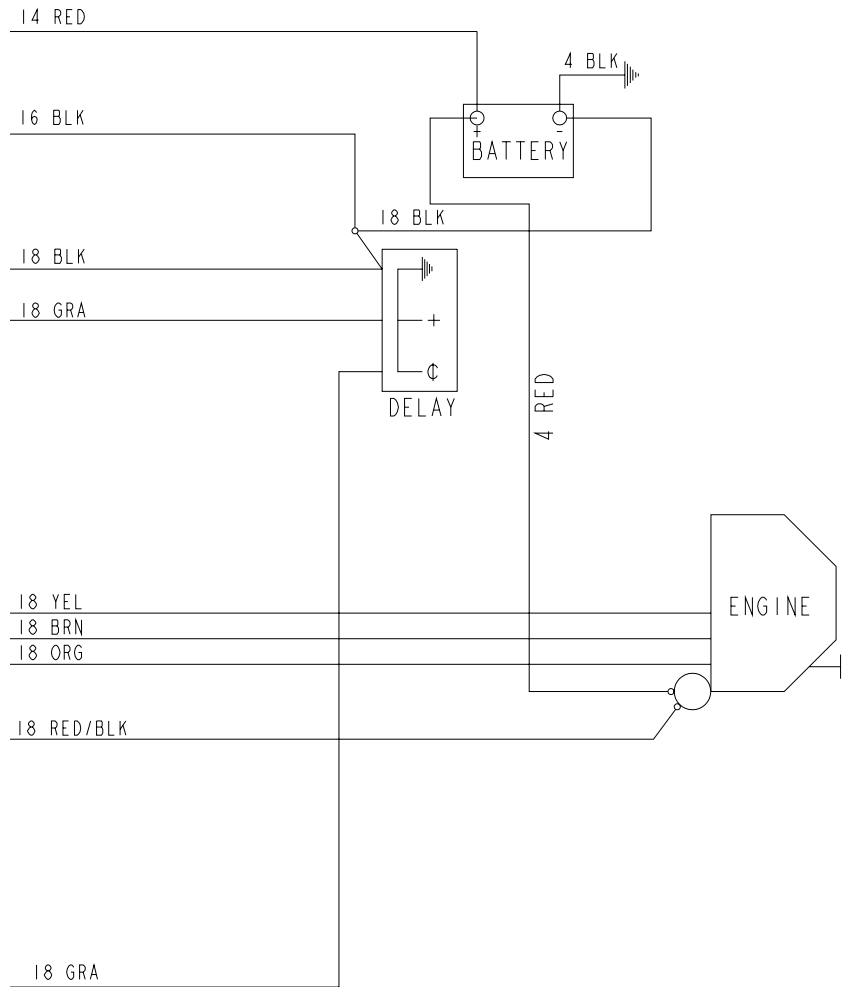
Electrical Schematic - Honda (787200)



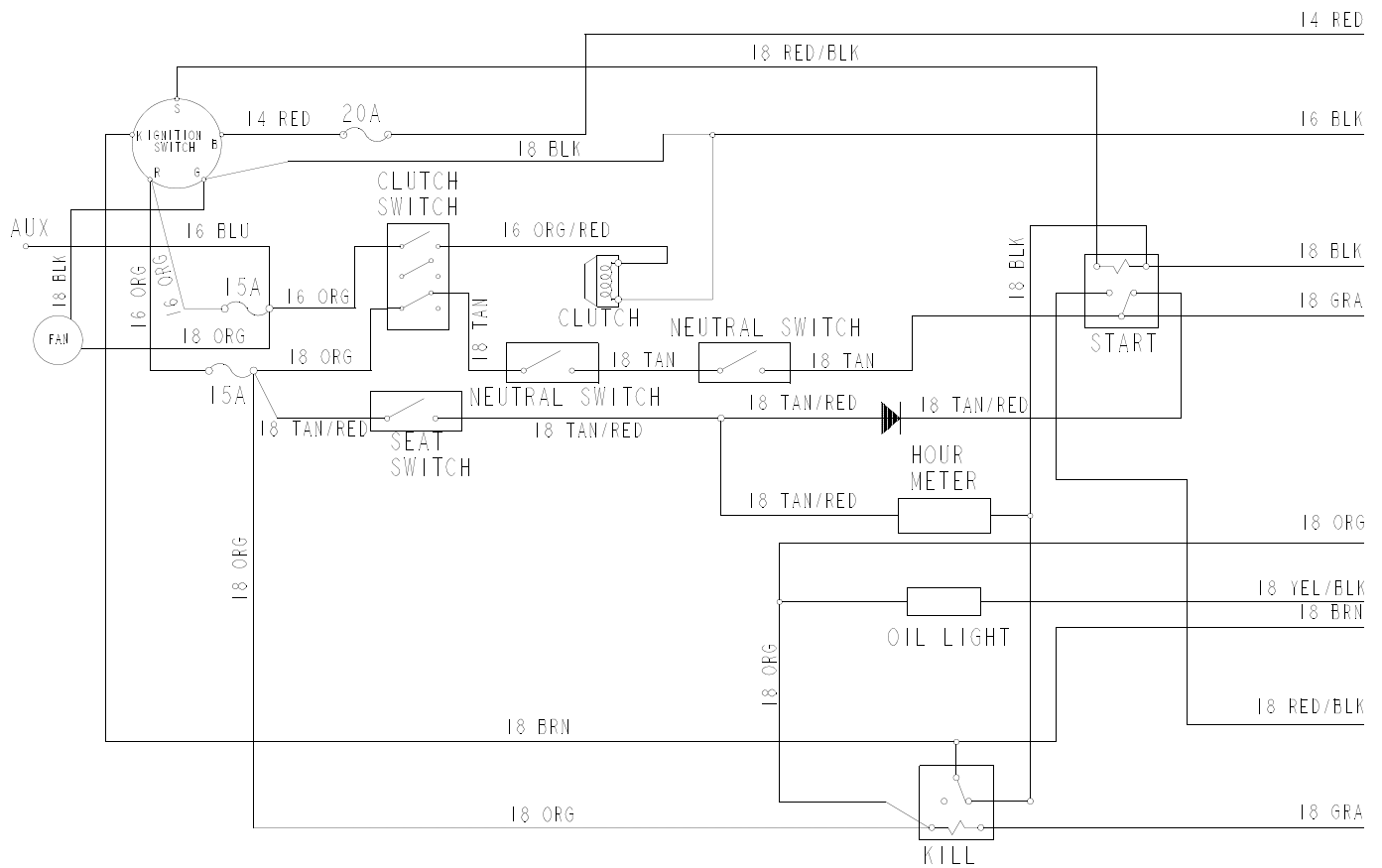
Electrical Schematic - Kohler (788000)



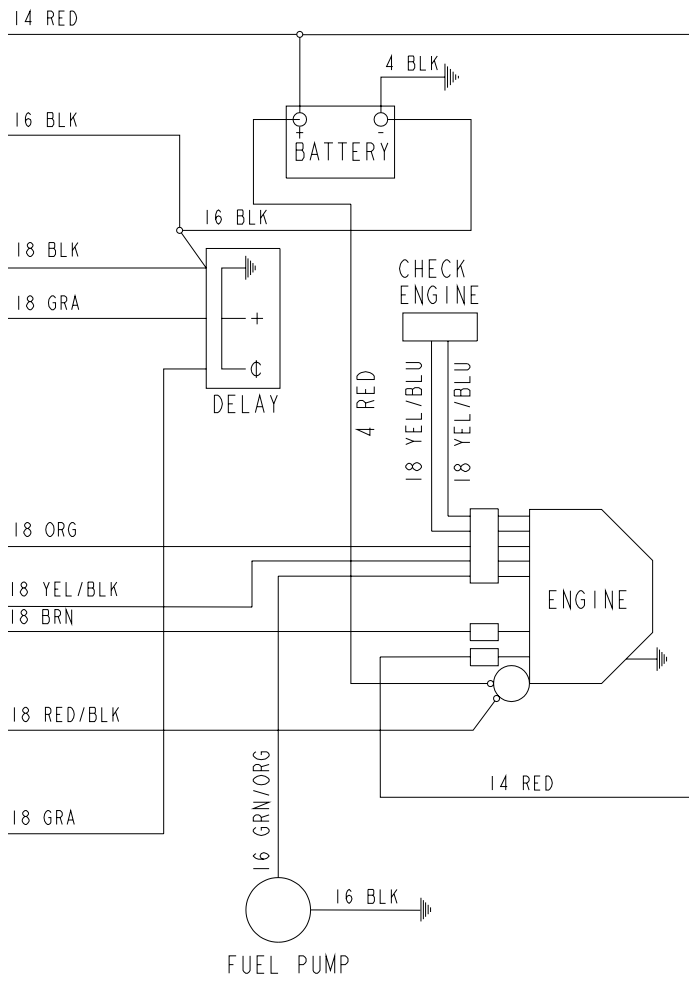
Electrical Schematic - Kohler (788000)



Electrical Schematic - Kohler EFI (789560)



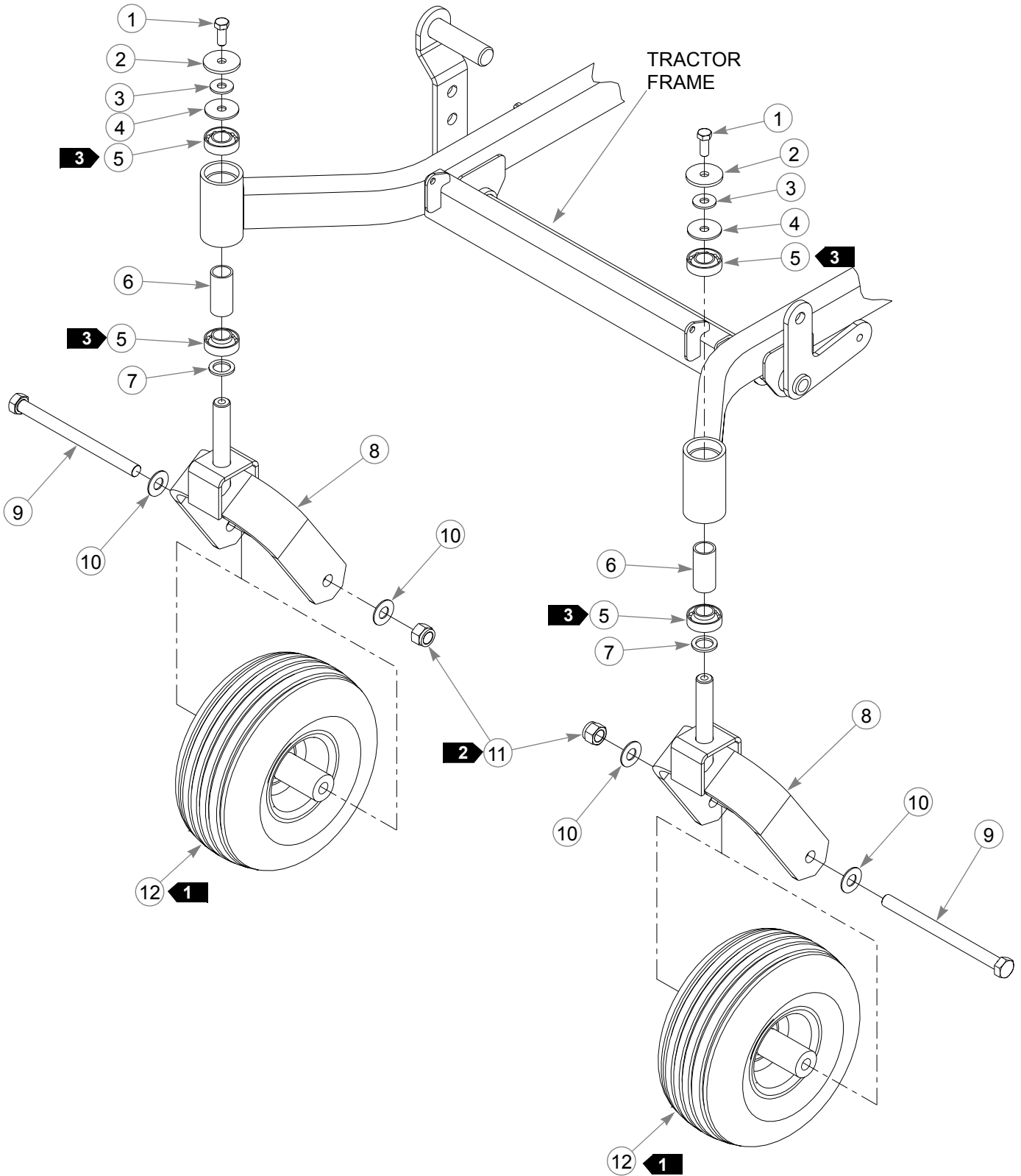
Electrical Schematic - Kohler EFI (789560)



Chapter 6 Contents

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Front Wheel Breakdown-747782	6-4
Optional Semi-Pneumatic Tire/Wheel-789537	6-5
Drive Wheel Assembly.	6-6
Anti-Rollover Wheel Assembly	6-7

Front Wheel Assembly



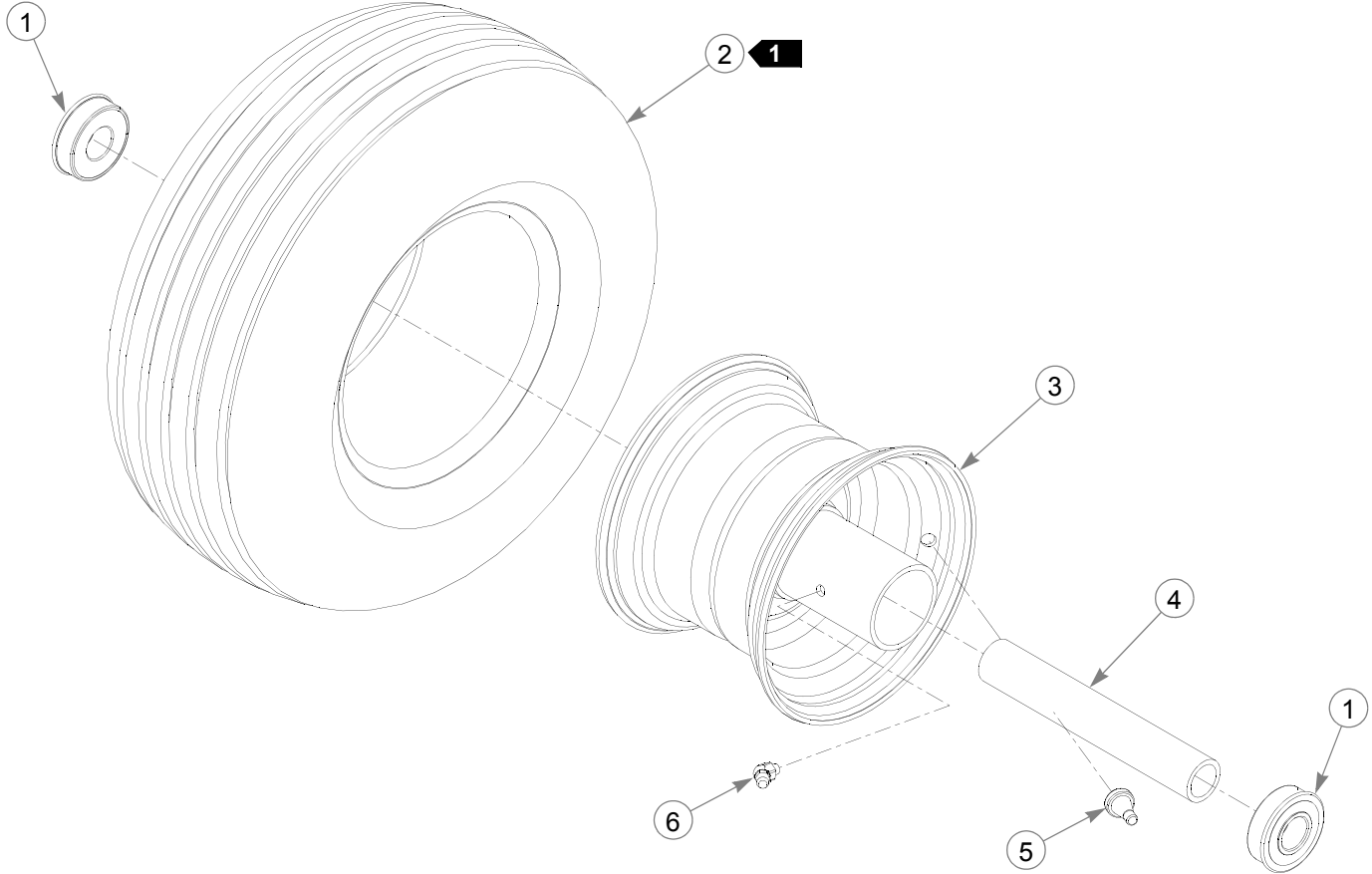
Front Wheel Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	705954	705954	2	CS .500-13 X 1.25 HX G5 ZN
2	344267	344267	2	FW .510 X 2.15 X .187 SPL ZN
3	798603	798603	2	FW .515X1.65X.125 HD ZY
4	263517	263517	2	BEARING DISC
5	784223	784223	4	BEARING
6	387035	387035	2	SPACER, 1.07 X 1.312 X 2.793
7	045765	045765	2	FW 1.030 X 1.500 X.134 ZN
8	349266	349266	2	FORK
9	041475	041475	2	CS .750-10 X 9.50 HX ZN
10	025296	025296	4	FW .760 X 1.625 X .08 ZN
11	061101	061101	2	NT .750-10 HX NL ZN
12	747782	747782	2	WHEEL & TIRE ASSY

NOTES:

1. Apply grease to zerks (see owners manual).
2. Torque to 100 ft.-lbs.
3. Assemble with extended inner race toward item 6 (387035 Spacer, 1.07 x 1.312 x 2.793).

Front Wheel Breakdown-747782

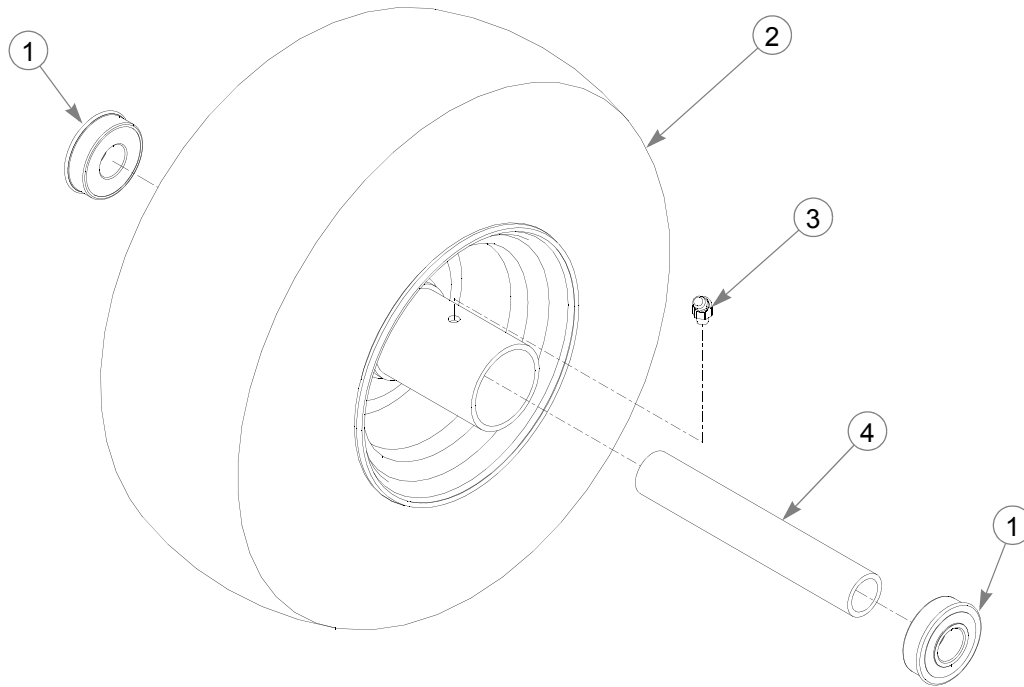


ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	039677	N/A	2	WHEEL BEARING
2	747741	N/A	1	13 X 6.50 TIRE
3	747832	N/A	1	6 X 4.5 WHEEL
4	782771	N/A	1	BEARING SPACER
5	019521	N/A	1	TIRE VALVE
6	015511	N/A	1	GREASE FITTING 45 DEG 1/4

NOTES:

1. Inflate tire to 8-10 psi.

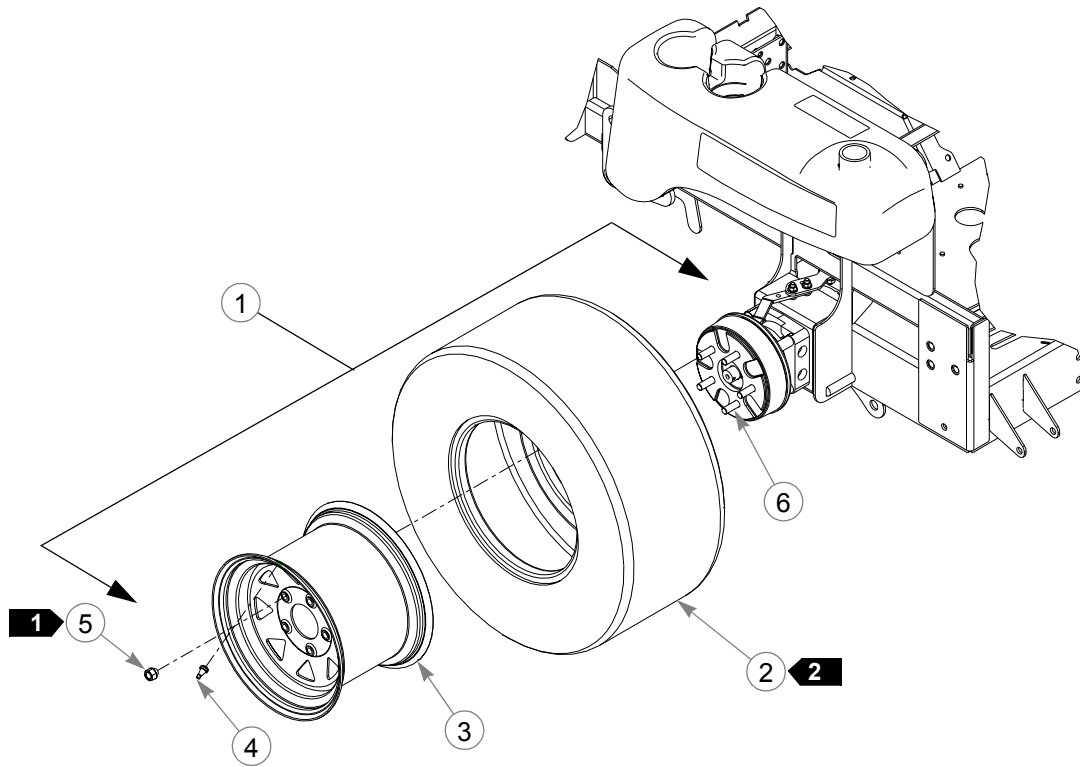
Optional Semi-Pneumatic Tire/Wheel-789537



ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	039677	N/A	2	WHEEL BEARING
2	789537	N/A	1	TIRE/WHEEL ASSEMBLY
3	015511	N/A	1	GREASE FITTING 45 DEG 1/4
4	782771	N/A	1	BEARING SPACER

NOTES:

Drive Wheel Assembly

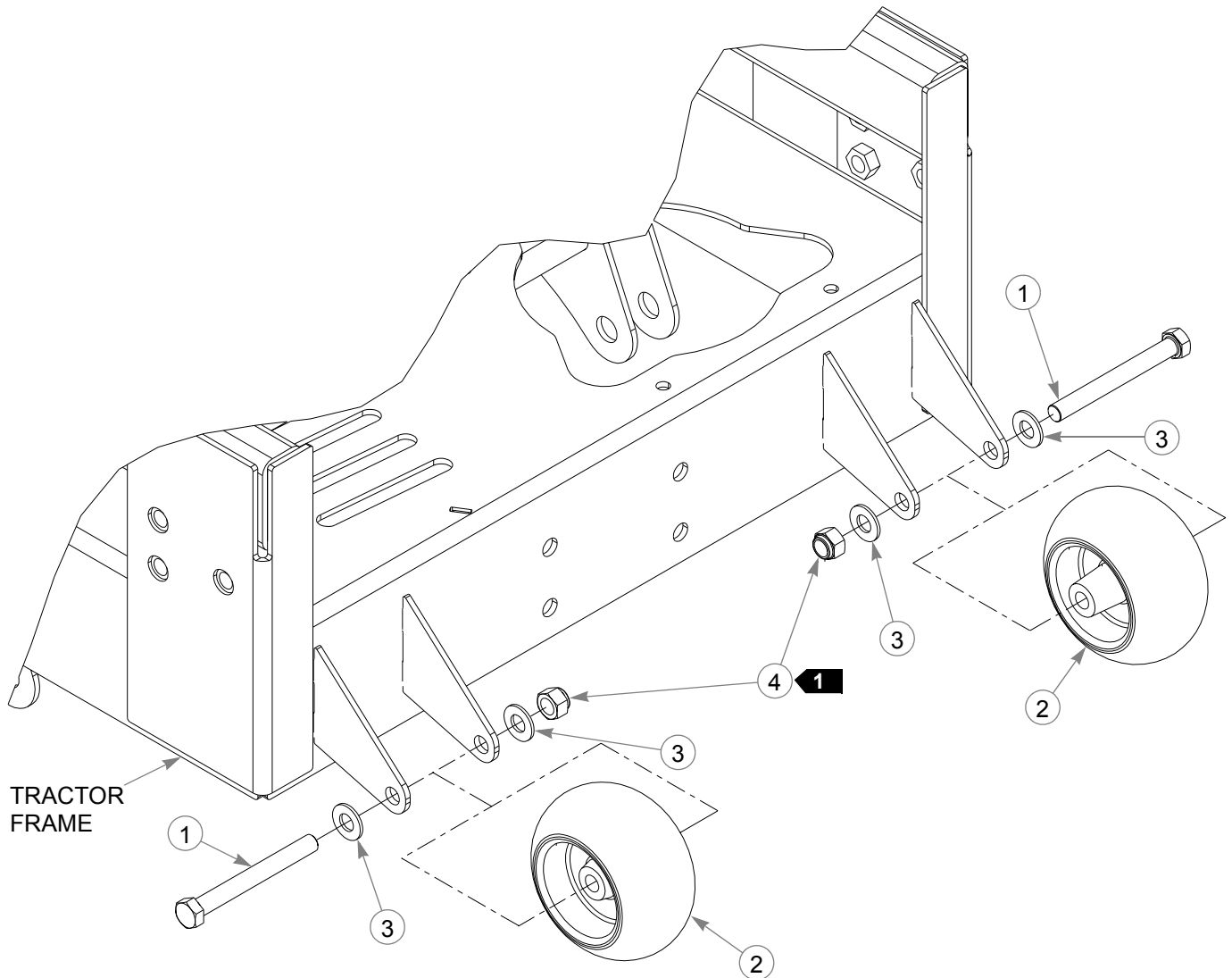


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	784058	784058	2	WHEEL & TIRE ASSY FOR 72" SD & RD, 60" RD(QTY PER TRACTOR)
2	781245	N/A		TIRE, 12 X 12 X 24 FOR 72" & 60"
3	784066	N/A		WHEEL ASSY 12 X 8.50 FOR 72" & 60"
4	019521	N/A		TIRE VALVE
5	061077	061077	5	WHEEL NUT (QTY PER WHEEL)
1	781237	781237	2	WHEEL & TIRE ASSY FOR 60" SD ONLY (QTY PER TRACTOR)
2	781245	N/A		TIRE, 12 X 12 X 24 FOR 60" SD ONLY
3	781252	N/A	2	WHEEL ASSEMBLY 12 X 8.50 FOR 60" SD ONLY
4	019521	N/A	2	TIRE VALVE
5	061077	061077	5	WHEEL NUT (QTY PER WHEEL)
1	782078	782078	2	WHEEL & TIRE ASSY FOR 52"
2	782284	N/A		TIRE, 23 X 9.50-12 FOR 52"
3	782086	N/A		WHEEL ASSY 12 X 7.00 FOR 52"
4	019521	N/A	2	TIRE VALVE
5	061077	061077	5	WHEEL NUT (QTY PER WHEEL)
6	770859	N/A	10	1/2" WHEEL LUG STUD

NOTES:

1. Torque to 65-75 ft. lbs.
2. Inflate tire to 8-10 psi.

Anti-Rollover Wheel Assembly



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	068239	068239	2	CS .500-13 X 4.500 HX G5 ZN
2	031997	031997	2	ANTI-SCALP WHEEL
3	767962	767962	4	FW .531 X 1.063 X .090 SAE HD ZN
4	781567	781567	2	NT .50-13 HX LK NY

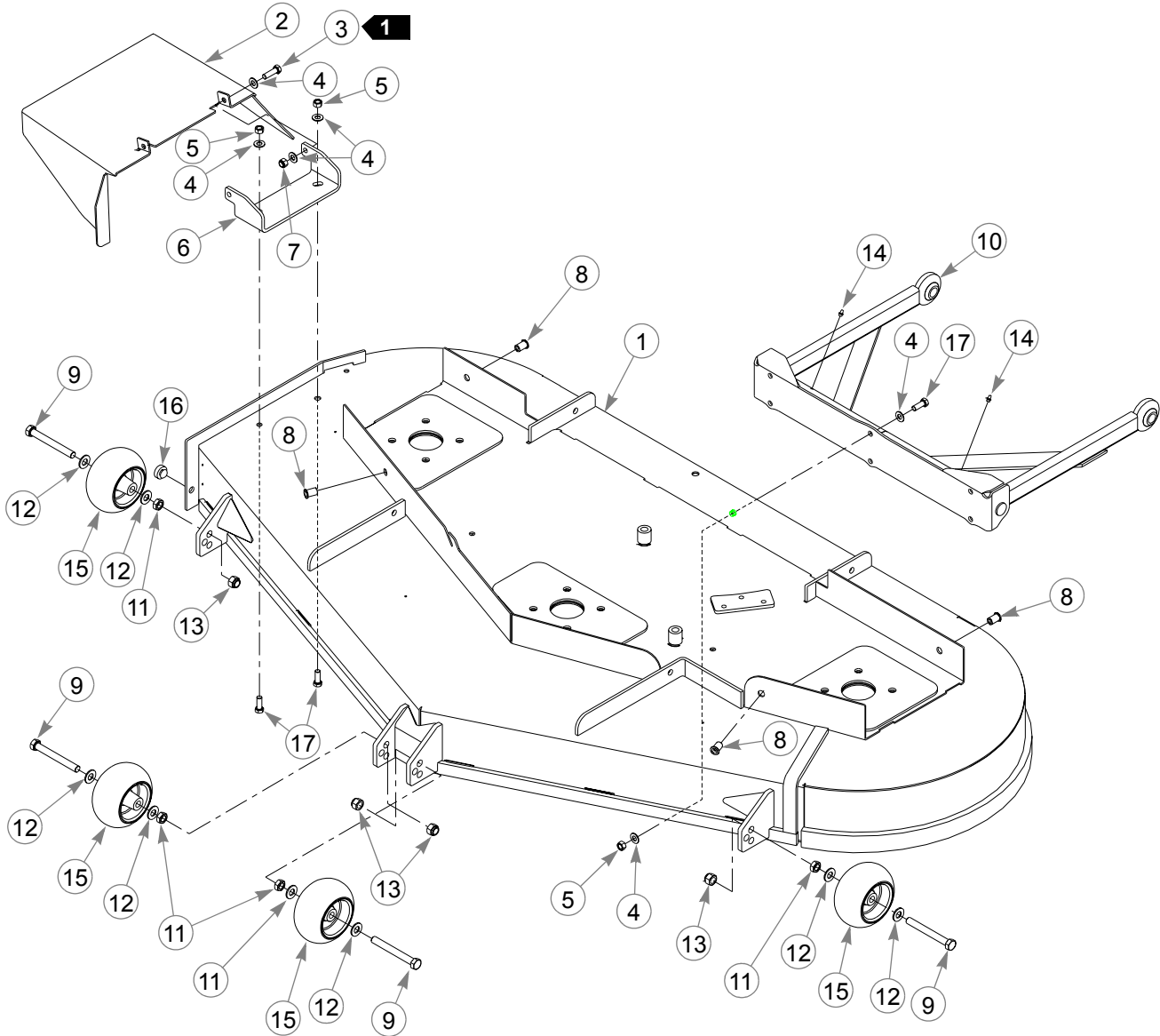
NOTES:

1. Do not torque, wheel must turn freely.

Chapter 7 Contents

72" Side Discharge Deck Assembly	7-2
72" Side Discharge Deck Pulley Assembly	7-4
60" Side Discharge Deck Assembly	7-6
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72" Side Discharge Deck Assembly



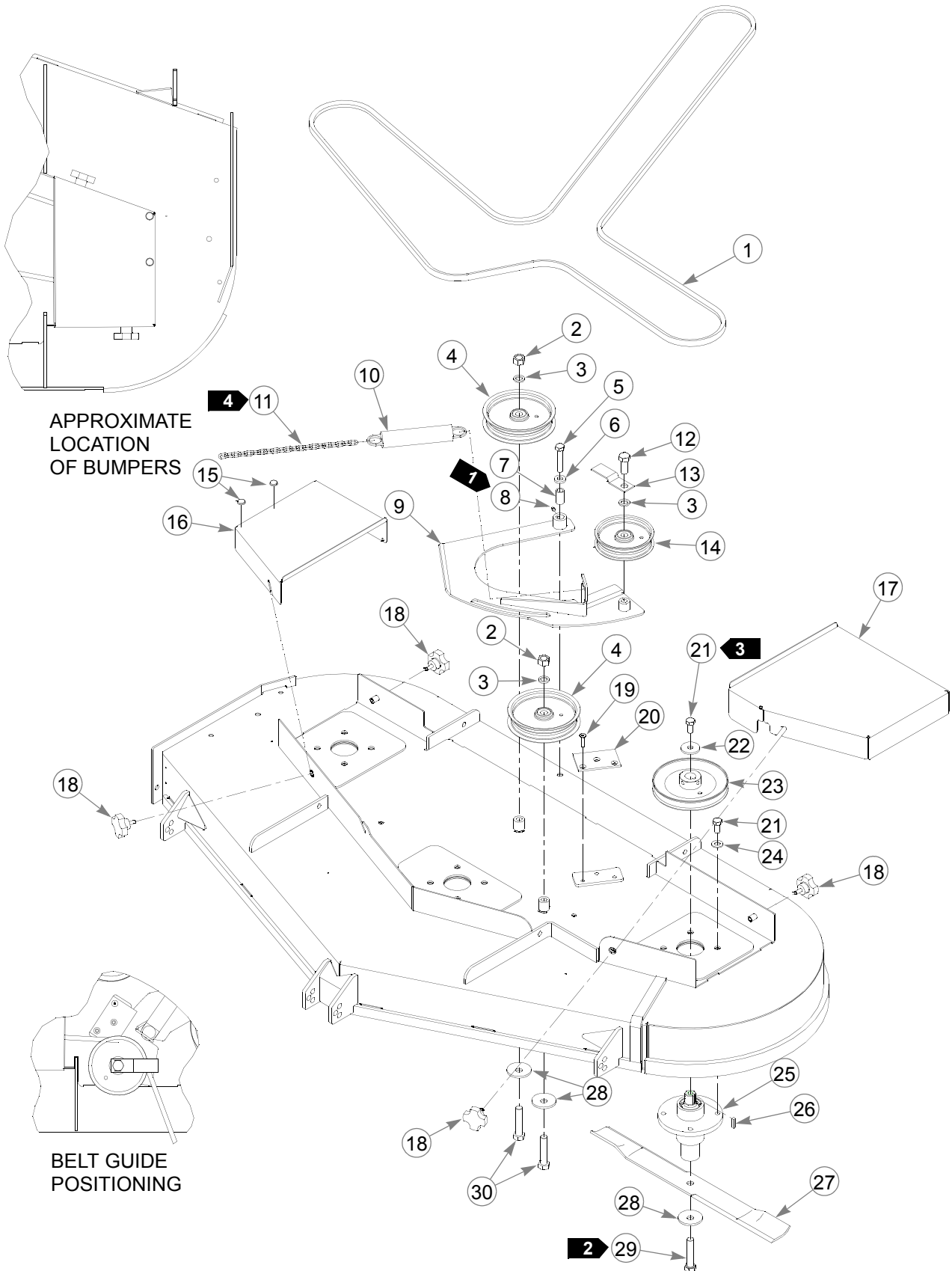
72" Side Discharge Deck Assembly

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
4 1	545764	348052	1	72" DECK CRATED
2	349324	349324	1	DISCHARGE CHUTE
3	052860	052860	2	CS .375-16 X 1.250 HX G5 ZN
4	767954	767954	18	FW .406 X .812 X .060 SAE HD ZN
5	054502	054502	8	NT .375-16 HX GRD 5 ZN
6	349522	349522	1	DISCHARGE CHUTE MOUNT BRACKET
7	086660	086660	2	NT .375-16 HX LK NY
8	N/A	808485	4	5/16-18 THREAD RIVET NUT
9	781708	N/A	4	CS .500-13 X 4.25 HX G5 ZN
10	349803	349803	1	PUSHER
11	053199	N/A	4	NT .500-13 HX JAM ZN
12	767962	N/A	8	FW .531 X 1.063 X .090 SAE HD ZN
13	781567	781567	4	NT .50-13 HX LK NY
14	015495	015495	2	STRAIGHT GREASE FITTING
15	031997	N/A	4	ANTI-SCALP WHEEL
16	781880	781880	1	BUMPER
17	036244	036244	7	CS .375-16 X1.000 HX G5 ZN
2 3	788166	788166	4	ANTI SCALP WHEEL ASSEMBLY

NOTES:

1. Do not torque, Item 2 (349324 Discharge Chute) must pivot freely.
2. Factory assembled in top hole for shipping purposes.
3. Includes Items 9, 11,12, and 15.
4. Service part deck included decals, see "72" and 60" Side Discharge Deck Decals" on page 9-4.

72" Side Discharge Deck Pulley Assembly



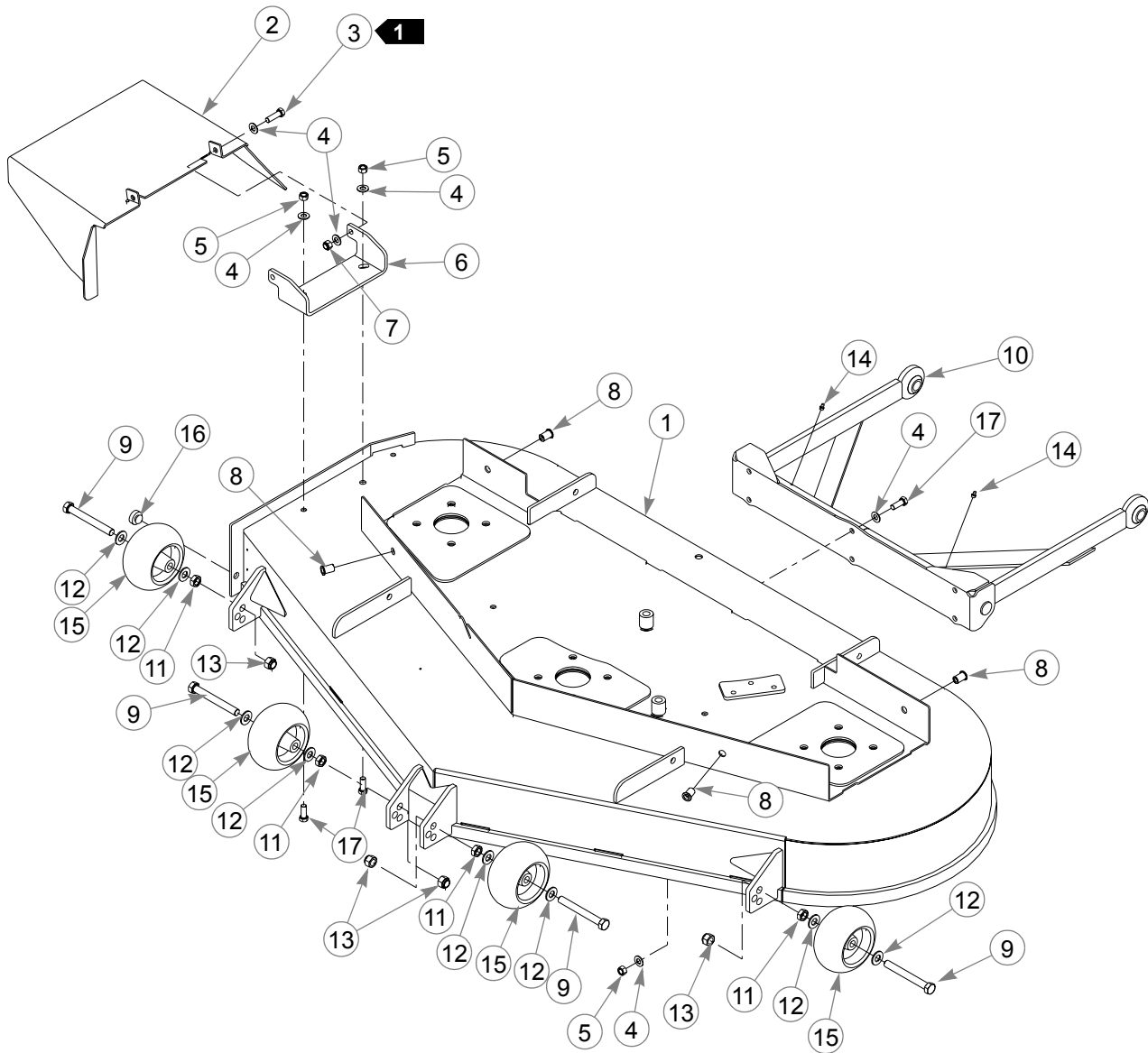
72" Side Discharge Deck Pulley Assembly

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	784207	784207	1	B-SECTION BELT
2	016972	016972	2	NT .625-11 HX G5 ZNYC
3	028118	028118	3	FW .62 X 1.00X.134 ZN
4	781385	781385	2	6.00" IDLER PULLEY,
5	008573	008573	1	CS .500-13 X 2.500 HX G5 ZN
6	070037	070037	1	FW .530 X 1.06 X .19 HRD ZN
7	350561	350561	1	DECK IDLER BUSHING
8	015495	015495	1	STRAIGHT GREASE FITTING
9	349498	349498	1	IDLER ARM
10	781302	781302	1	IDLER SPRING
11	373191	059931	1	SIDE MOUNT CHAIN (21 LINKS)
12	794446	794446	1	CS .625-11 X 1.50 HX G5 ZN
13	347443	347443	1	TOP IDLER DECK BELT GUIDE
14	781856	781856	1	5.00" IDLER PULLEY
15	781617	781617	2	RUBBER BUMPER
16	348375	348375	1	R.S. PULLEY COVER
17	348524	348524	1	L.S. PULLEY COVER
18	792002	792002	4	5/16-18 X 3/4" MALE KNOB
7	075291	075291	4	CLAMP KNOB
19	784199	784199	3	CS .312-18 X 1.250 FLT SH ZNYC
20	783878	783878	1	IDLER CLAMP
21	016527	016527	15	CS .500-13 X 1.00 HX G5 ZN
22	078386	078386	3	FW .510 X 1.750 X .18 ZN
23	538850	538850	3	DRIVE PULLEY
24	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
6	796235	796235	3	SPINDLE HOUSING ASSEMBLY
8 6	350595K	350595	3	SPINDLE HOUSING ASSEMBLY
26	212472	212472	3	KEY 1/4 SQ X 1.00 LONG
27	795260	795260	3	BLADE, F23.86"-H-F-CW
8	783977	783977	3	BLADE,23.86"-M-O-CW
	794867	N/A	3	OPTIONAL BLADE, 23.86"-GAT-F-CW
8	784728	784728	3	OPTIONAL BLADE,23.89"-GAT-O-CW
28	782474	782474	5	CW .631 2.250 X .187 PNT
29	029934	029934	3	CS .625-11 X 3.00 HX G5 ZNYC
30	783738	783738	2	CS .625-11 X 3.00 FULL HX G5 ZN

NOTES:

1. Apply grease to zerk (see owners manual).
2. Torque to 118 ft. lbs.
3. Torque to 65-75 ft. lbs.
4. See "Deck Belt Routing and Tensioning" on page 8-4 for belt tensioning.
5. See "Spindle Assembly-796235" on page 7-23 for breakdown.
6. See "Spindle Assembly-350595K" on page 7-22 for breakdown.
7. Used on mowers with serial number prior to 04032000.
8. Used on mowers with serial number prior to 05011098.

60" Side Discharge Deck Assembly



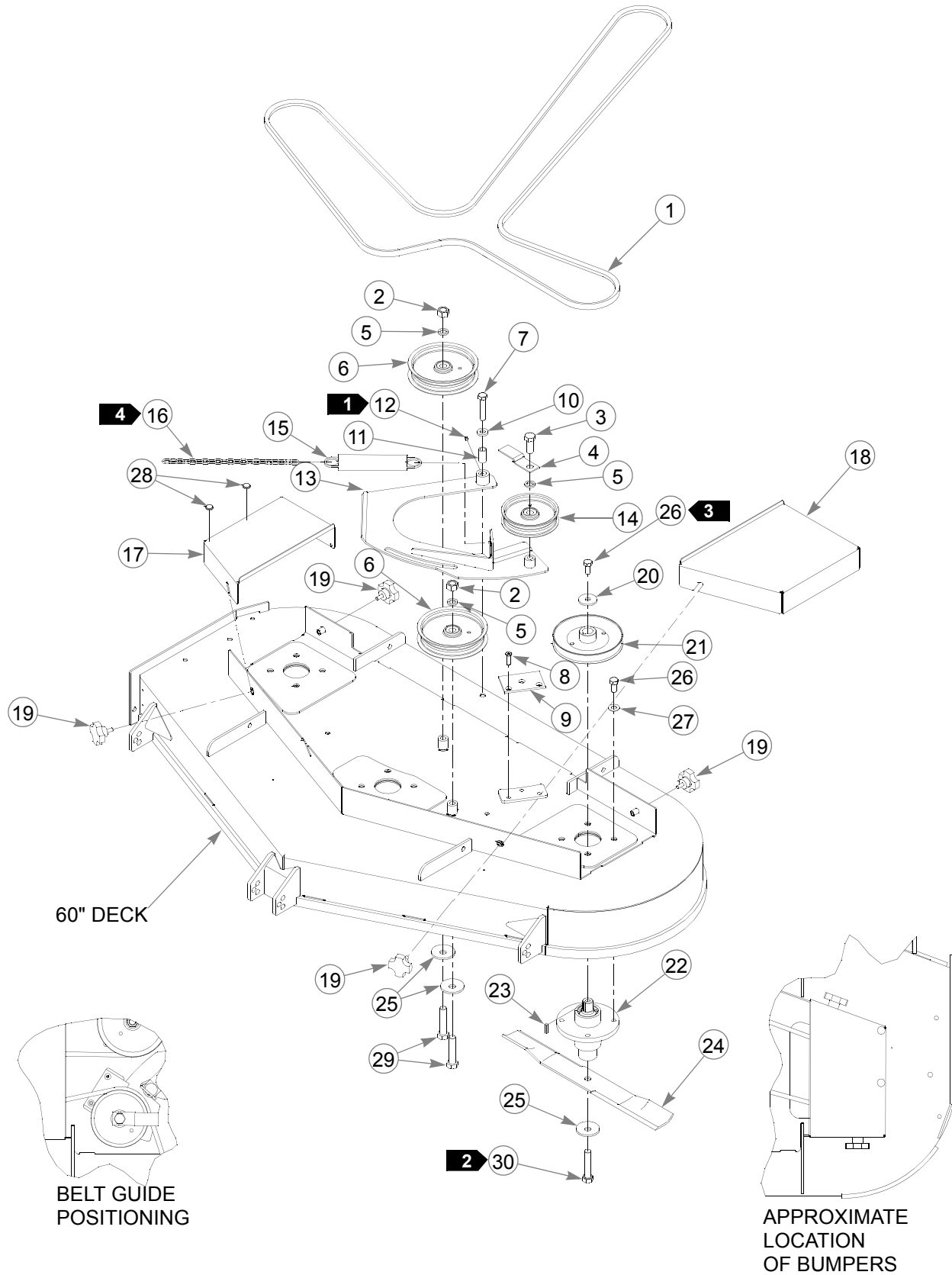
60" Side Discharge Deck Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
4 1	545277	349100	1	60" DECK CRATED
2	349324	349324	1	DISCHARGE CHUTE
3	052860	052860	2	CS .375-16 X 1.250 HX G5 ZN
4	767954	767954	18	FW .406 X .812 X .060 SAE HD ZN
5	054502	054502	8	NT .375-16 HX GRD 5 ZN
6	349522	349522	1	DISCHARGE CHUTE MOUNT BRACKET
7	086660	086660	2	NT .375-16 HX LK NY
8	N/A	808485	4	5/16-18 THREAD RIVET NUT
9	781708	N/A	4	CS .500-13 X 4.25 HX G5 ZN
10	349803	349803	1	PUSHER
11	053199	N/A	4	NT .500-13 HX JAM ZN
12	767962	N/A	8	FW .531 X 1.063 X .090 SAE HD ZN
13	781567	781567	4	NT .50-13 HX LK NY
14	015495	015495	2	STRAIGHT GREASE FITTING
15	031997	N/A	4	ANTI-SCALP WHEEL
16	781880	781880	1	BUMPER
17	036244	036244	7	CS .375-16X1.000 HX G5 ZN
2 3	788166	788166	4	ANTI SCALP WHEEL ASSEMBLY

NOTES:

1. Do not torque, Item 2 (349324 Discharge Chute) must pivot freely.
2. Factory assembled in top hole for shipping purposes.
3. Includes Items 9, 11,12, and 15.
4. Service part deck includes decals, see "72" and 60" Side Discharge Deck Decals" on page 9-4.

60" Side Discharge Deck Pulley Assembly



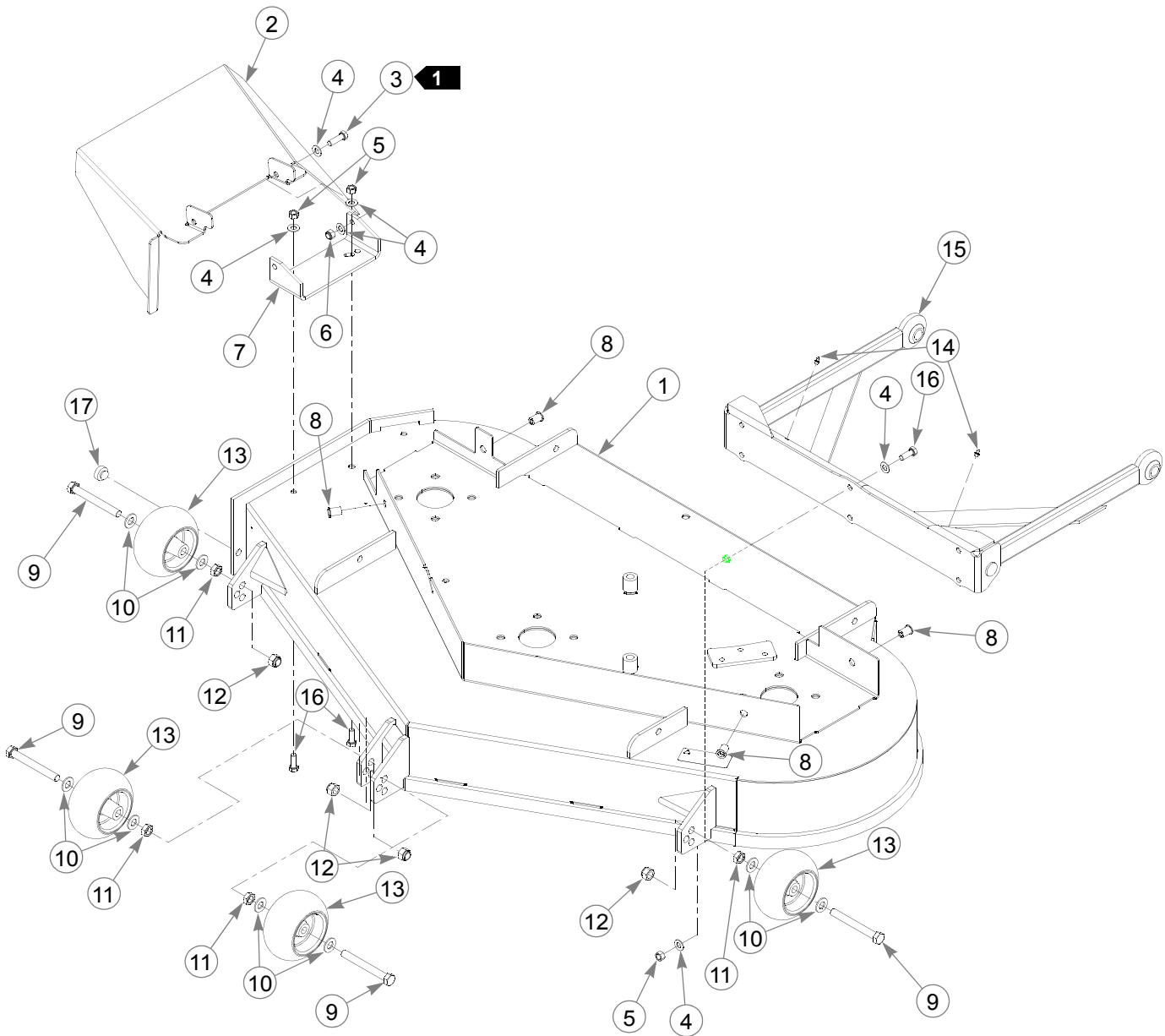
60" Side Discharge Deck Pulley Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	781310	781310	1	B-SECTION BELT
2	016972	016972	2	NT .625-11 HX G5 ZNYC
3	794446	794446	4	CS .625-11 X 1.50 HX G5 ZN
4	347443	347443	1	TOP IDLER DECK BELT GUIDE
5	028118	028118	3	FW .62 X 1.00X.134 ZN
6	781385	781385	2	6.00" IDLER PULLEY
7	008573	008573	1	CS .500-13 X 2.500 HX G5 ZN
8	784199	784199	3	CS .312-18 X 1.250 FLT SH ZNYC
9	783878	783878	1	IDLER CLAMP
10	070037	070037	1	FW .530 X 1.06 X .19 HRD ZN
11	350561	350561	1	DECK IDLER BUSHING
12	015495	015495	1	STRAIGHT GREASE FITTING
13	349498	349498	1	IDLER ARM
14	781856	781856	1	5.00" IDLER PULLEY
15	781302	781302	1	IDLER SPRING
16	373191	059931	1	SIDE MOUNT CHAIN (21 LINKS)
17	349381	349381	1	R.S. PULLEY COVER
18	349399	349399	1	L.S. PULLEY COVER
19	792002	792002	4	5/16-18 X 3/4" MALE KNOB
7	075291	075291	4	CLAMP KNOB
20	078386	078386	3	FW .510 X 1.750 X .18 ZN
21	781328	781328	3	B-SECTION 6.10 E.O.D PULLEY
5	22	796235	3	SPINDLE HOUSING ASSEMBLY
6	8	350595	3	SPINDLE HOUSING ASSEMBLY
23	212472	212472	3	KEY 1/4 SQ X 1.00 LONG
24	795252	795252	3	BLADE, F20.95"-H-F-CW
8	782516	N/A	3	BLADE,20.95"-M-O-CW
	794859	N/A	3	BLADE, 20.95"-GAT-F-CW
8	782557	N/A	3	BLADE,20.95"-GAT-O-CW
25	782474	782474	5	CW .631 2.250 X .187 PNT
26	016527	016527	15	CS .500-13 X 1.00 HX G5 ZN
27	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
28	781617	781617	2	RUBBER BUMPER
29	783738	783738	2	CS .625-11 X 3.00 FULL HX G5 ZN
30	029934	029934	3	CS .625-11 X 3.00 HX G5 ZNYC

NOTES:

1. Apply grease to zerk (see owners manual).
2. Torque to 118 ft. lbs.
3. Torque to 65-75 ft. lbs.
4. See "Deck Belt Routing and Tensioning" on page 8-4 for belt tensioning.
5. See "Spindle Assembly-796235" on page 7-23 for breakdown.
6. See "Spindle Assembly-350595K" on page 7-22 for breakdown.
7. Used on mowers with serial numbers prior to 04032000.
8. Used on mowers with serial number prior to 05011098.

52" Side Discharge Deck Assembly



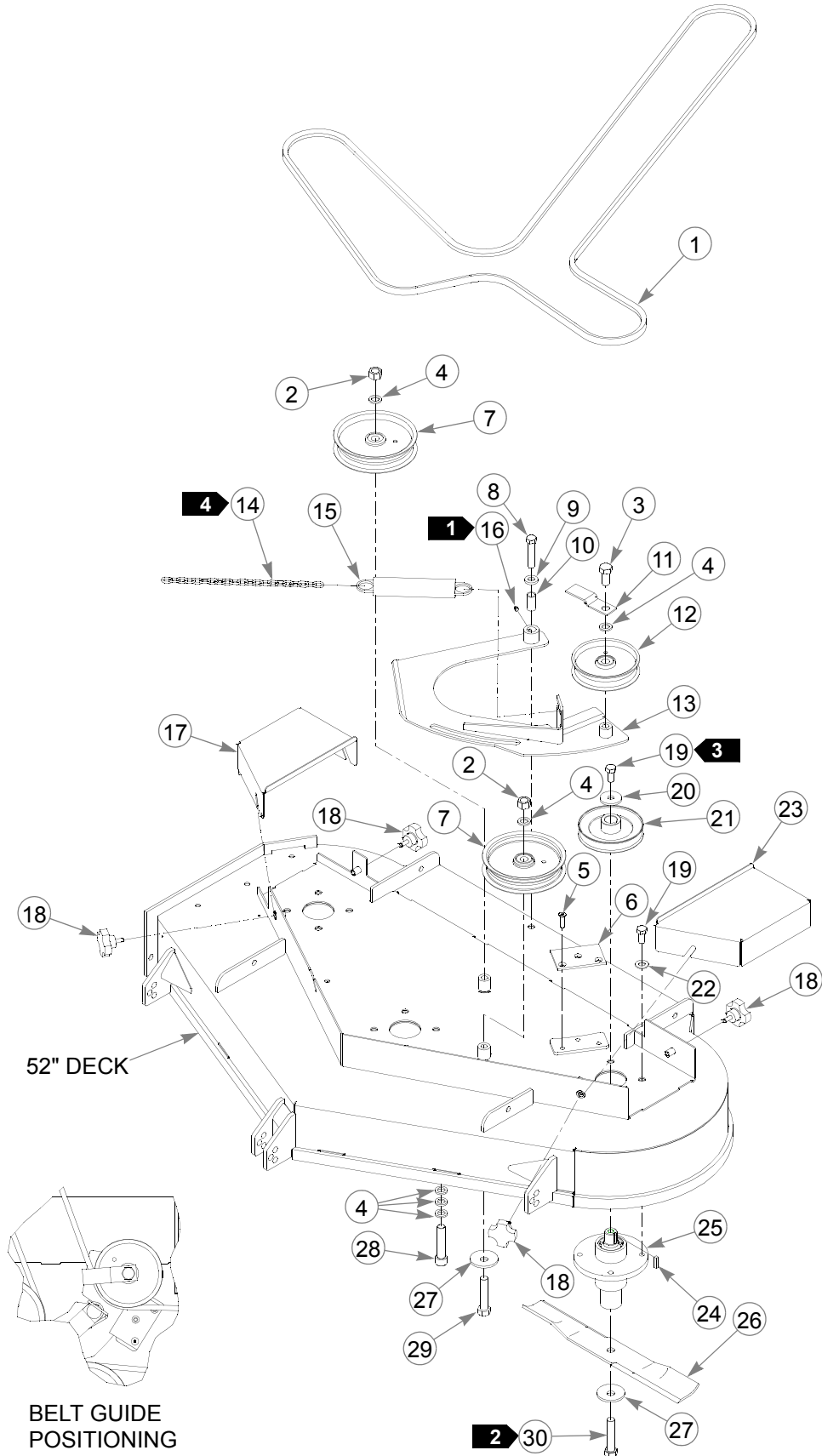
52" Side Discharge Deck Assembly

INDE X NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
4 1	545343	347195	1	52" DECK CRATED
2	347971	347971	1	52" DISCHARGE CHUTE
3	052860	052860	2	CS .375-16 X 1.25 HX G5 ZN
4	767954	767954	18	FW .406 X .812 X .060 SAE HD ZN
5	054502	054502	8	NT .375-16 HX GRD 5 ZN
6	086660	086660	2	NT .375-16 HX LK NY
7	317073	317073	1	DISCHARGE CHUTE MOUNT BRACKET
8	N/A	808485	4	5/16-18 THREAD RIVET NUT
9	781708	N/A	4	CS .500-13 X 4.25 HX G5 ZN
10	767962	N/A	8	FW .531 X 1.063 X .090 SAE HD ZN
11	053199	N/A	4	NT .500-13 HX JAM ZN
12	781567	781567	4	NT .50-13 HX LK NY
13	031997	N/A	4	ANTI-SCALP WHEEL
14	015495	015495	2	STRAIGHT GREASE FITTING
15	349803	349803	1	PUSHER
16	036244	036244	7	CS .375-16 X 1.00 HX G5 ZN
17	781880	781880	1	BUMPER
2 3	788166	788166	4	ANTI SCALP WHEEL ASSEMBLY

NOTES:

1. Do not torque, Item 2 (347971 Discharge Chute) must pivot freely.
2. Factory assembled in top hole for shipping purposes.
3. Includes Items 9, 10, 11, and 13.
4. Service part deck includes decals, see "52" Deck Decals" on page 9-5.

52" Side Discharge Deck Pulley Assembly



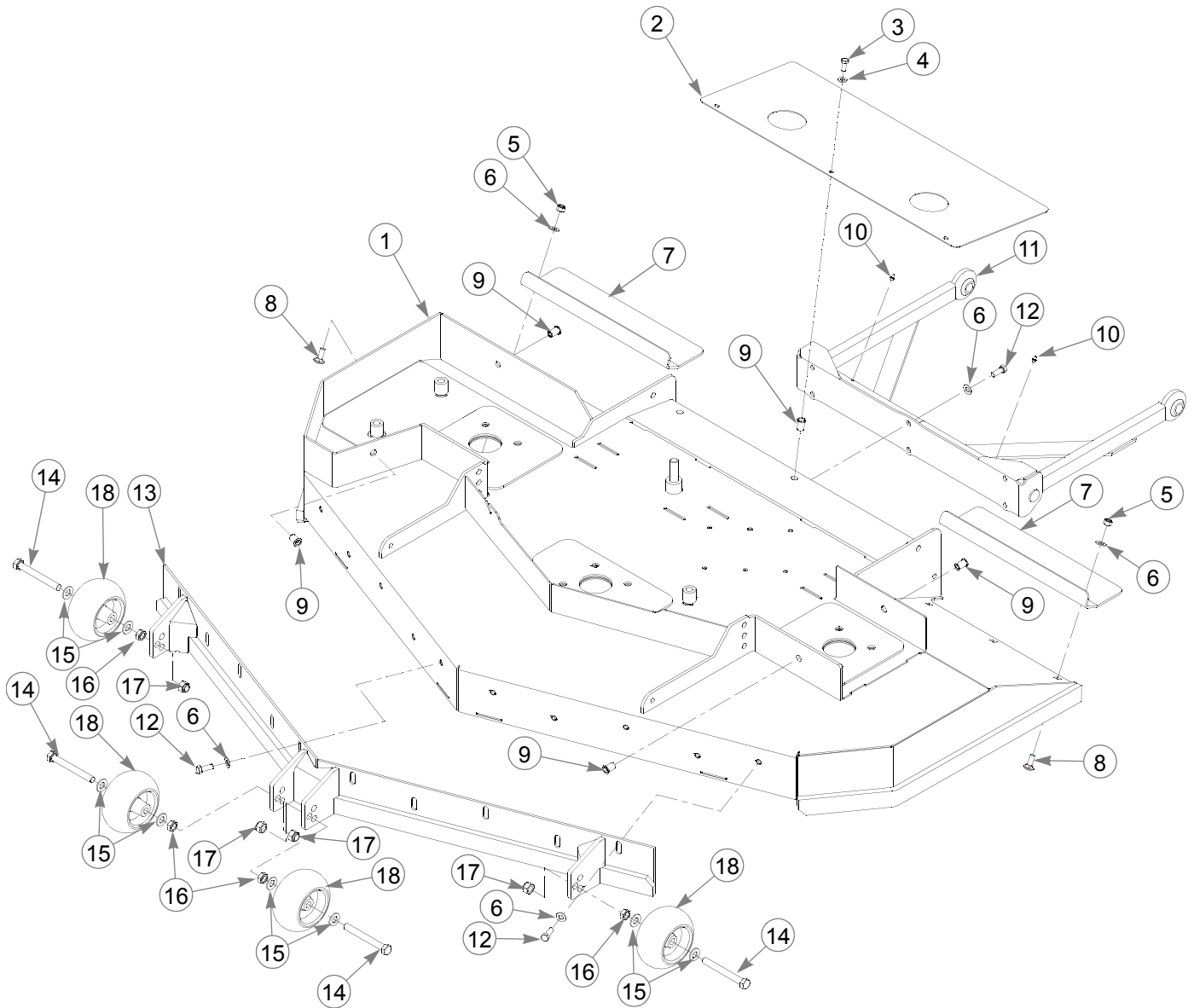
52" Side Discharge Deck Pulley Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	782292	782292	1	B-SECTION BELT
2	016972	016972	2	NT .625-11 HX G5 ZNYC
3	794446	794446	4	CS .625-11 X 1.50 HX G5 ZN
4	028118	028118	6	FW .62 X 1.00 X .134 ZN
5	784199	784199	3	CS .312-18 X 1.250 FLT SH ZNYC
6	783878	783878	1	IDLER CLAMP
7	781385	781385	2	6.00" IDLER PULLEY
8	008573	008573	1	CS .500-13 X 2.50 HX G5 ZN
9	070037	070037	1	FW .530 X 1.06 X .19 HRD ZN
10	350561	350561	1	DECK IDLER BUSHING
11	347443	347443	1	DECK BELT IDLER TOP GUIDE
12	781856	781856	1	5.00" IDLER PULLEY
13	349498	349498	1	DECK IDLER ARM
14	373191	059931	1	SIDE MOUNT CHAIN (21 LINKS)
15	781302	781302	1	IDLER SPRING
16	015495	015495	1	STRAIGHT GREASE FITTING
17	347898	347898	1	RS 52" DECK PULLEY COVER
18	792002	792002	4	5/16-18 X 3/4" MALE KNOB
8	075291	075291	4	CLAMP KNOB
19	016527	016527	15	CS .500-13 X 1.00 HX G5 ZN
20	078386	078386	3	FW .510 X 1.75 X .18 ZN
21	768168	768168	3	DECK PULLEY
22	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
23	347914	347914	1	LS 52" DECK PULLEY COVER
24	212472	212472	3	KEY 1/4 SQ X 1.00 LONG
5	796235	796235	3	DECK SPINDLE ASSY
9	6	350595	N/A	3 DECK SPINDLE ASSY
26	795526	795526	3	BLADE, F17.86"-H-F-CW
	785436	N/A	3	OPTIOAL BLADE, 17.86"-GAT-F-CW
9	781898	N/A	3	BLADE,17.86"-M-O-CW
9	7	782532	N/A	3 OPTIONAL BLADE,17.86"-M-O-CW
27	782474	782474	4	CW .631 X 2.250 X .187 PNT
28	783787	783787	1	CS .625-11 X 3.00 SH 2.50"MIN TH
29	783738	783738	1	CS .625-11X3.00 FULL HX G5 ZN
30	029934	029934	3	CS .625-11 X 3.00 HX G5 ZNYC

NOTES:

1. Apply grease to zerk (see owners manual).
2. Torque to 118 ft. lbs.
3. Torque to 65-75 ft. lbs.
4. See "Deck Belt Routing and Tensioning" on page 8-4 for belt tensioning.
5. See "Spindle Assembly-796235" on page 7-23 for breakdown.
6. See "Spindle Assembly-350595K" on page 7-22 for breakdown.
7. To be used with mulch kit only.
8. Used on mowers with serial numbers prior to 04032000.
9. Used on mowers with serial number prior to 05011098.

60" Rear Discharge Deck Assembly



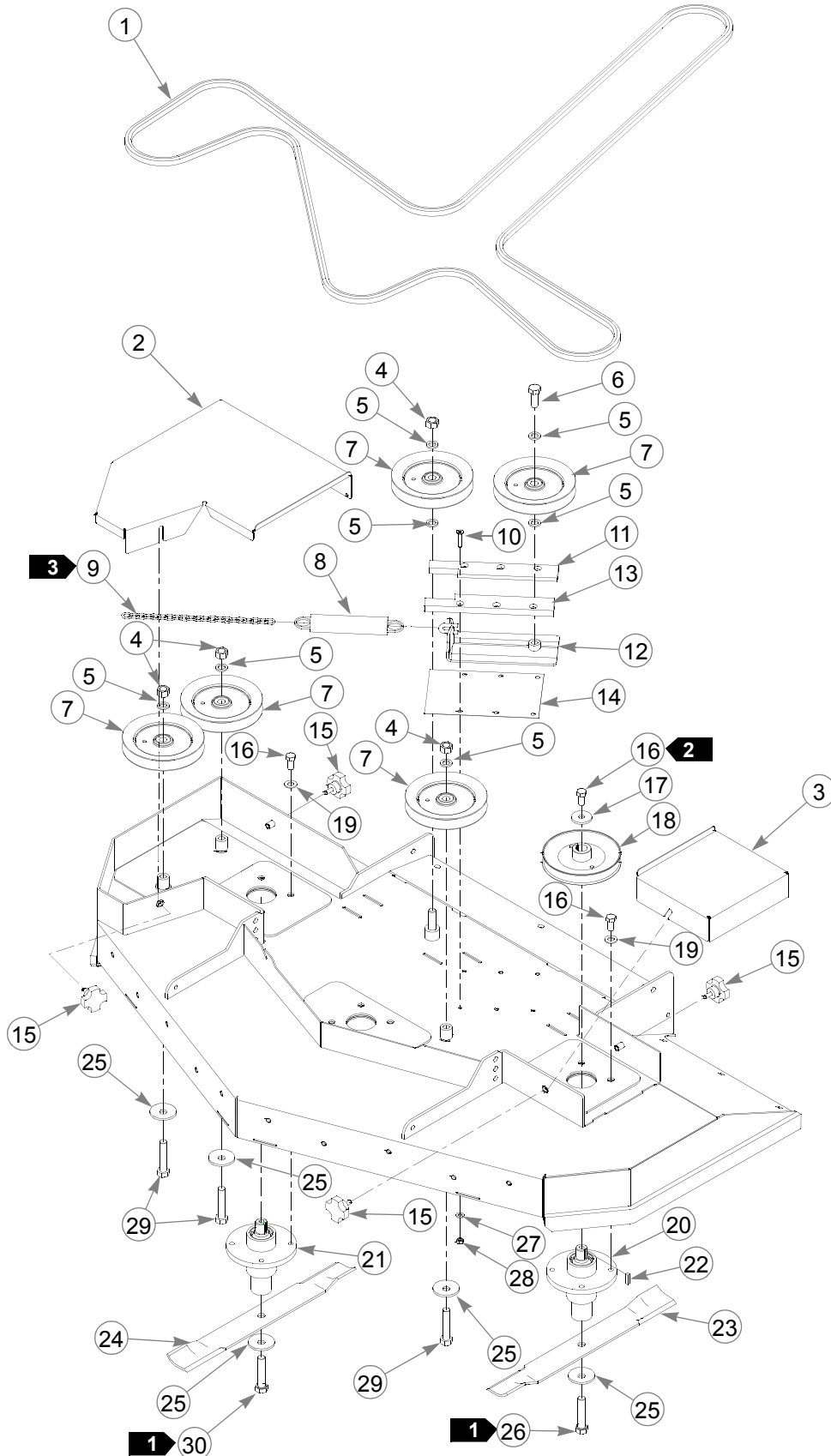
60" Rear Discharge Deck Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION	
3 ▶	1	547398	351395	1	60" REAR DISCHARGE DECK
	2	351957	351957	1	REAR DISCHARGE DECK GRASS SHIELD
	3	034280	034280	3	CS .312-18 X .750 HX G5
	4	768523	768523	3	FW .343 X .687 X .051/.080 HD ZN
	5	086660	086660	10	NT .375-16 HX LK NY
	6	767954	767954	22	FW .406 X .812 X .060 SAE HD ZN
	7	351676	351676	2	DECK STIFFENER ANGLE
	8	025395	025395	6	CB .375-16 X 1.00 STD CD
	9	N/A	808485	7	5/16-18 THREAD RIVET NUT
	10	015495	015495	2	STRAIGHT GREASE FITTING
	11	349803	349803	1	PUSHER
	12	036244	036244	16	CS .375-16 X 1.00 HX G5 ZN
	13	352591	352591	1	60" REAR DISCHARGE FRONT ANGLE
	14	781708	N/A	4	CS .500-13 X 4.25 HX G5 ZN
	15	767962	N/A	8	FW .531 X 1.063 X .090 SAE HD ZN
	16	053199	N/A	4	NT .500-13 HX JAM ZN
	17	781567	781567	4	NT .50-13 HXZY NL
	18	031997	N/A	4	ANTI-SCALP WHEEL
1 ▶ 2 ▶		788166	788166	4	ANTI SCALP WHEEL ASSEMBLY

NOTES:

1. Factory assembled in top hole for shipping purposes.
2. Includes Items 14 through 16 and 18.
3. Service part deck includes decals, see "72" and 60" Side Discharge Deck Decals" on page 9-4.

60" Rear Discharge Deck Pulley Assembly



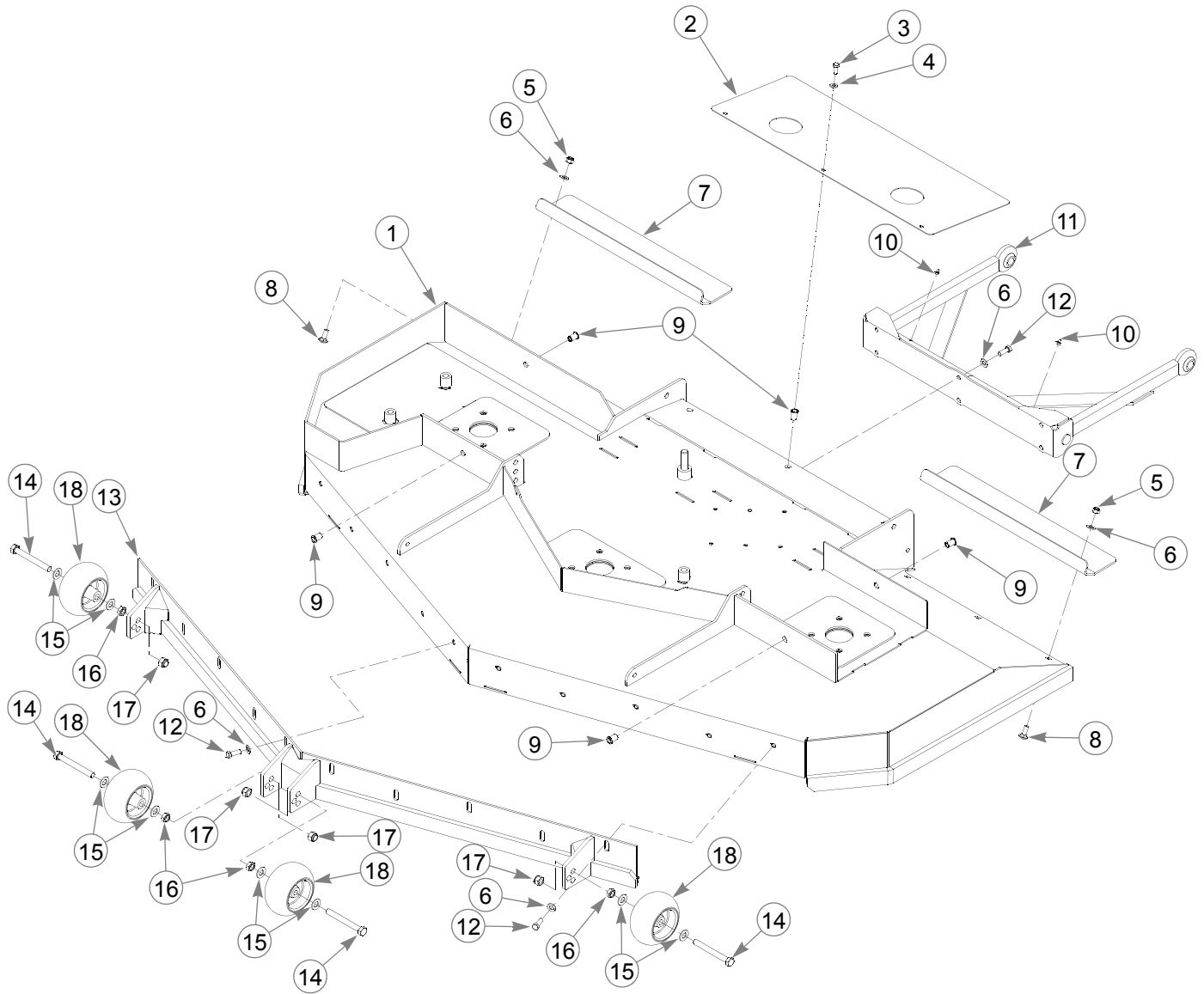
60" Rear Discharge Deck Pulley Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	795781	795781	1	60" REAR DISCHARGE DECK BELT
2	351924	351924	1	RIGHT 60" REAR DISCHARGE PULLEY COVER
3	351932	351932	1	LEFT 60" REAR DISCHARGE PULLEY COVER
4	016972	016972	4	NT .625-11 HX G5 ZNYC
5	028118	028118	7	FW .62 X 1.00 X .134 ZN
6	794446	794446	1	CS .625-11X1.500 HX G5
7	796714	796714	5	6" HB IDLER PULLEY RD
8	781302	781302	1	IDLER SPRING
9	373191	059931	1	SIDE MOUNT CHAIN (21 LINKS)
10	797910	797910	6	CS .312-18X1.50FLT SH ZY
11	600189	600189	1	UHMW DECK IDLER SLIDE RS
12	350884	350884	1	REAR DISCHARGE DECK IDLER
13	600171	600171	1	UHMW DECK IDLER SLIDE LS
14	786335	786335	1	.03 THICK UHMW
15	792002	792002	4	5/16-18 X 3/4" MALE KNOB
16	016527	016527	15	CS .500-13 X 1.00 HX G5 ZN
17	078386	078386	3	FW .510 X 1.75 X .18 ZN
18	781328	781328	3	B-SECTION 6.10 PULLEY
19	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
4	20	796235	2	DECK SPINDLE ASSY
5	21	796680	1	REAR DISCHARGE DECK SPINDLE ASSEMBLY
22	212472	212472	3	KEY 1/4 SQ X 1.00 LONG
23	793794	793794	2	BLADE, 20.50"-L-F-CW
24	795633	795633	1	BLADE, 20.50"-L-F-CCW
25	782474	782474	6	CW .631 X 2.250 X .187 PNT
26	029934	029934	2	CS .625-11 X 3.00 HX G5 ZNYC
27	768523	768523	4	FW .343 X .687 X .051/.080 HD ZN
28	058776	058776	4	NT .312-18 HXZY NL
29	783738	783738	3	CS .625-11X3.00 FULL HX G5 ZN
30	796722	796722	1	CS .625-11 X 3.00 LH HX G

NOTES:

1. Torque to 118 ft. lbs.
2. Torque to 65-75 ft. lbs.
3. See "Deck Belt Routing and Tensioning" on page 8-4 for belt tensioning.
4. See "Spindle Assembly-796235" on page 7-23 for breakdown.
5. See "Spindle Assembly-796680" on page 7-24 for breakdown.

72" Rear Discharge Deck Assembly



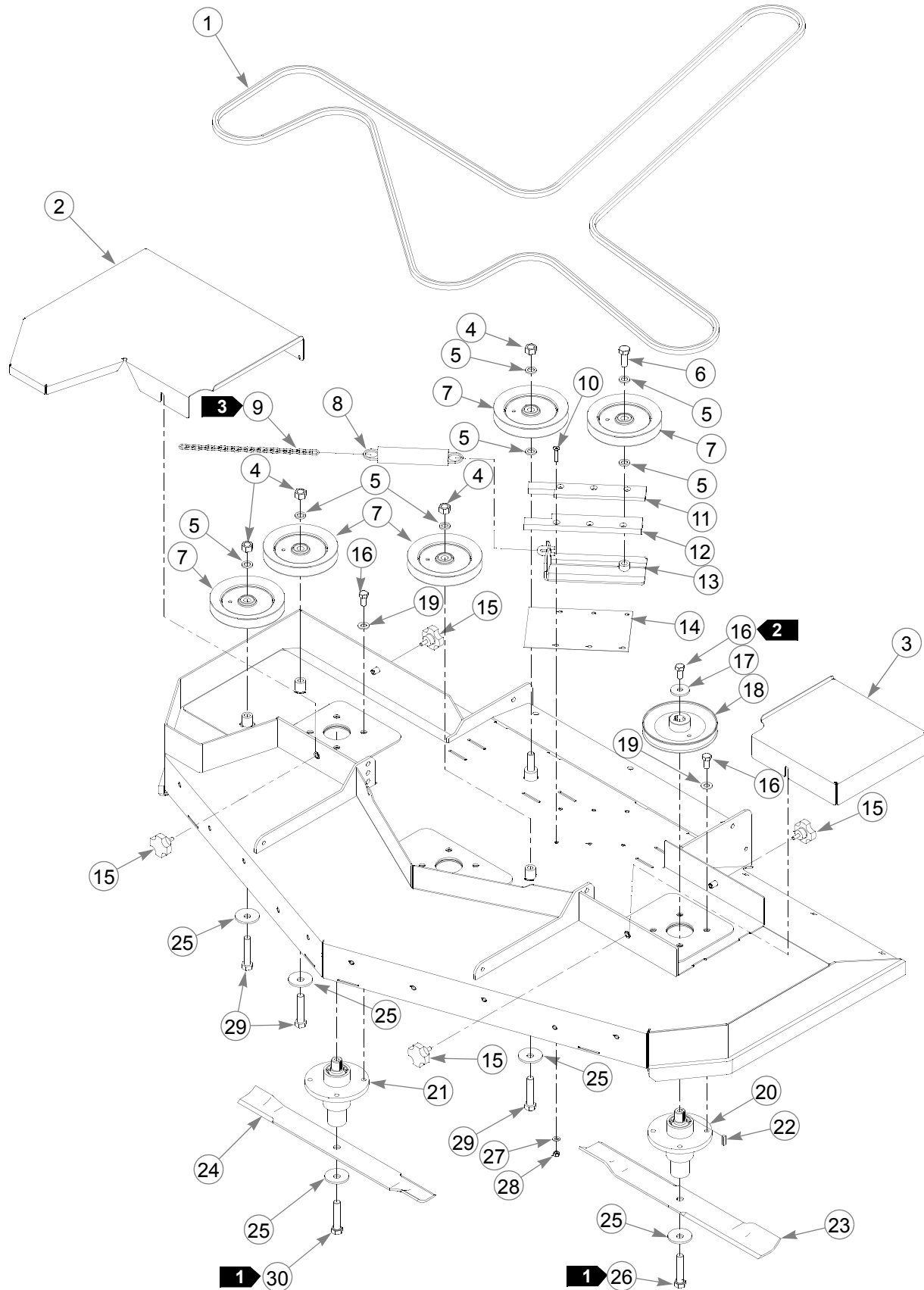
72" Rear Discharge Deck Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
3 1	547406	101295	1	72" REAR DISCHARGE DECK
2	351957	351957	1	REAR DISCHARGE DECK GRASS SHIELD
3	034280	034280	3	CS .312-18 X .750 HX G5
4	768523	768523	3	FW .343 X .687 X .051/.080 HD ZN
5	086660	086660	10	NT .375-16 HX LK NY
6	767954	767954	22	FW .406 X .812 X .060 SAE HD ZN
7	101360	101360	2	DECK STIFFENER ANGLE
8	025395	025395	6	CB .375-16 X 1.00 STD CD
9	N/A	808485	7	5/16-18 THREAD RIVET NUT
10	015495	015495	2	STRAIGHT GREASE FITTING
11	349803	349803	1	PUSHER
12	036244	036244	16	CS .375-16 X 1.00 HX G5 ZN
13	101477	101477	1	72" REAR DISCHARGE FRONT ANGLE
14	781708	N/A	4	CS .500-13 X 4.25 HX G5 ZN
15	767962	N/A	8	FW .531 X 1.063 X .090 SAE HD ZN
16	053199	N/A	4	NT .500-13 HX JAM ZN
17	781567	781567	4	NT .50-13 HXZY NL
18	031997	N/A	4	ANTI-SCALP WHEEL
1 2	788166	788166	4	ANTI SCALP WHEEL ASSEMBLY

NOTES:

1. Factory assembled in top hole for shipping purposes.
2. Includes Items 14 through 16 and 18.
3. Service part deck includes decals, see "Rear Discharge Deck Decals" on page 9-6.

72" Rear Discharge Deck Pulley Assembly



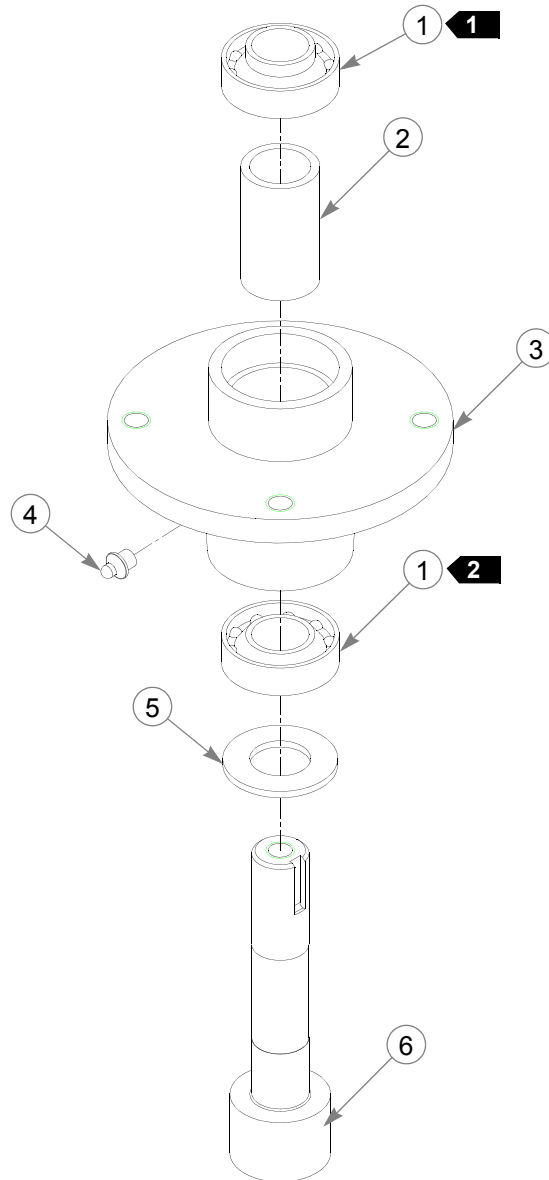
72" Rear Discharge Deck Pulley Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	797167	797167	1	72" REAR DISCHARGE DECK BELT
2	101345	101345	1	RIGHT 72" REAR DISCHARGE PULLEY COVER
3	101352	101352	1	LEFT 72" REAR DISCHARGE PULLEY COVER
4	016972	016972	4	NT .625-11 HX G5 ZNYC
5	028118	028118	7	FW .62 X 1.00 X .134 ZN
6	794446	794446	1	CS .625-11 X 1.750 HX G5
7	796714	796714	5	6" HB IDLER PULLEY RD
8	781302	781302	1	IDLER SPRING
9	373191	059931	1	SIDE MOUNT CHAIN (21 LINKS)
10	797910	797910	6	CS .312-18 X 1.250 FLT SH ZNYC
11	600189	600189	1	UHMW DECK IDLER SLIDE RS
12	350884	350884	1	REAR DISCHARGE DECK IDLER
13	600171	600171	1	UHMW DECK IDLER SLIDE LS
14	786335	786335	1	.03 THICK UHMW
15	792002	792002	4	5/16-18 X 3/4" MALE KNOB
16	016527	016527	15	CS .500-13 X 1.00 HX G5 ZN
17	078386	078386	3	FW .510 X 1.75 X .18 ZN
18	723486	723486	3	DRIVE PULLEY DB-112
19	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
4	20	796235	2	DECK SPINDLE ASSY
5	21	796680	1	REAR DISCHARGE DECK SPINDLE ASSEMBLY
22	212472	212472	3	KEY 1/4 SQ X 1.00 LONG
23	796839	796839	2	BLADE, 23.86-L-F-CW
24	796508	796508	1	BLADE, 23.86-L-F-CCW
25	782474	782474	6	CW .631 X 2.250 X .187 PNT
26	029934	029934	2	CS .625-11 X 3.00 HX G5 ZNYC
27	768523	768523	4	FW .343 X .687 X .051/.080 HD ZN
28	058776	058776	4	NT .312-18 HXZY NL
29	783738	783738	3	CS .625-11X3.00 FULL HX G5 ZN
30	796722	796722	1	CS .625-11 X 3.00 LH HX G

NOTES:

1. Torque to 118 ft. lbs.
2. Torque to 65-75 ft. lbs.
3. See "Deck Belt Routing and Tensioning" on page 8-4 for belt tensioning.
4. See "Spindle Assembly-796235" on page 7-23 for breakdown.
5. See "Spindle Assembly-796680" on page 7-24 for breakdown.

Spindle Assembly-350595K

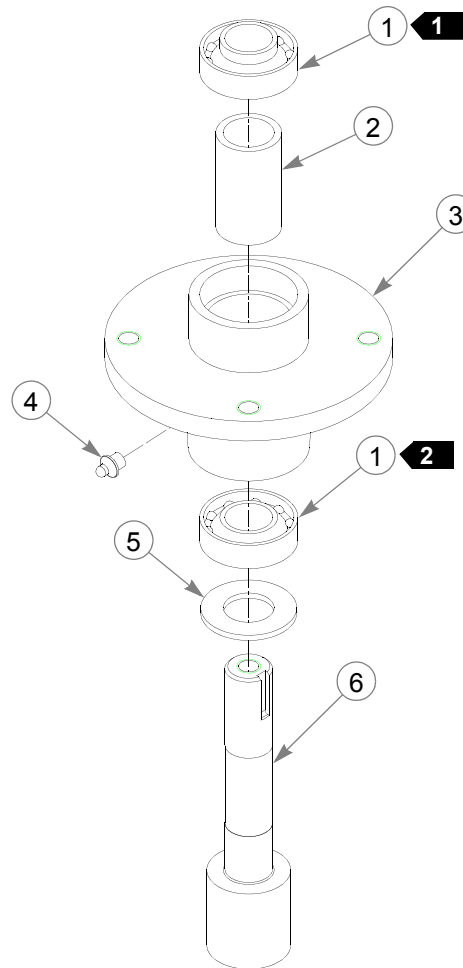


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	077123	N/A	2	BEARING W/O COLLAR
2	766204	N/A	1	BLADE SPINDLE BUSHING
3	034843	N/A	1	CAST SPINDLE HOUSING
4	012005	N/A	1	GREASE FITTING
5	072272	N/A	1	FW 1.06 X 2.00 X.134 SAE ZN
6	788547	N/A	1	SADDLELESS SPINDLE SHAFT

NOTES:

1. Install upper bearing with extended inner race up.
2. Install lower bearing with extended inner race down.

Spindle Assembly-796235

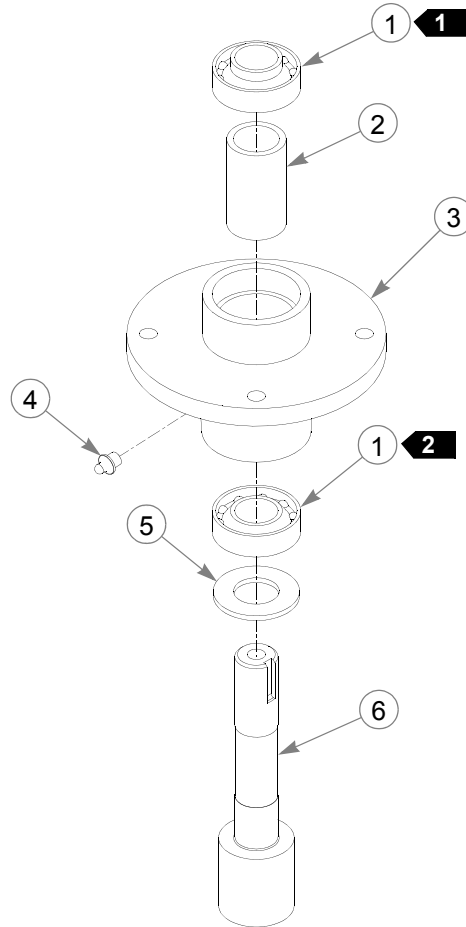


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	077123	N/A	2	BEARING W/O COLLAR
2	766204	N/A	1	BLADE SPINDLE BUSHING
3	034843	N/A	1	CAST SPINDLE HOUSING
4	012005	N/A	1	GREASE FITTING
5	072272	N/A	1	FW 1.06 X 2.00 X.134 SAE ZN
6	796227	N/A	1	SADDLELESS SPINDLE SHAFT

NOTES:

1. Install upper bearing with extended inner race up.
2. Install lower bearing with extended inner race down.

Spindle Assembly-796680



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	077123	N/A	2	BEARING W/O COLLAR
2	766204	N/A	1	BLADE SPINDLE BUSHING
3	034843	N/A	1	CAST SPINDLE HOUSING
4	012005	N/A	1	GREASE FITTING
5	072272	N/A	1	FW 1.06 X 2.00 X .134 SAE ZN
6	796698	N/A	1	SPINDLE SHAFT

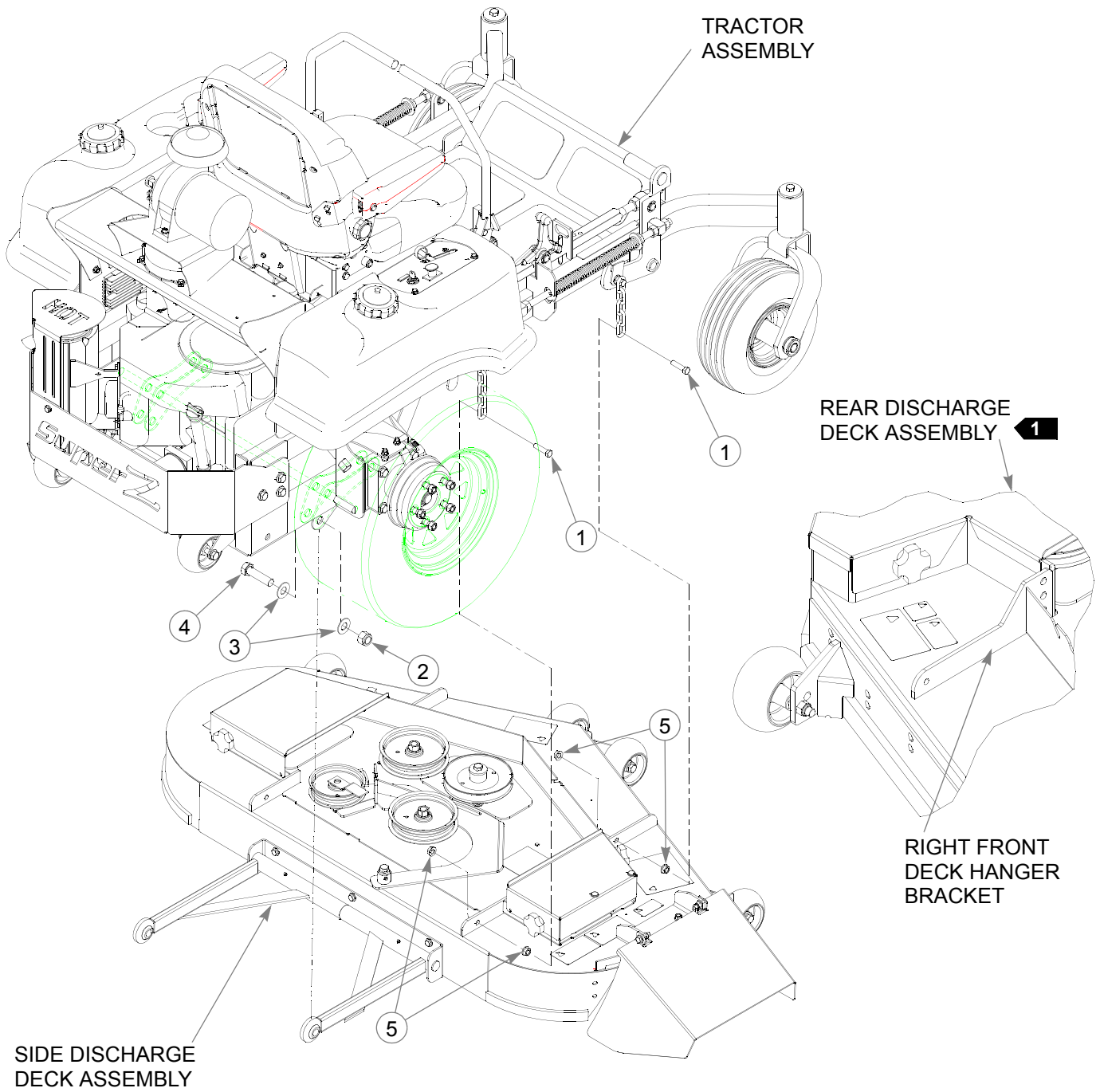
NOTES:

1. Install upper bearing with extended inner race up.
2. Install lower bearing with extended inner race down.

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Deck Installation



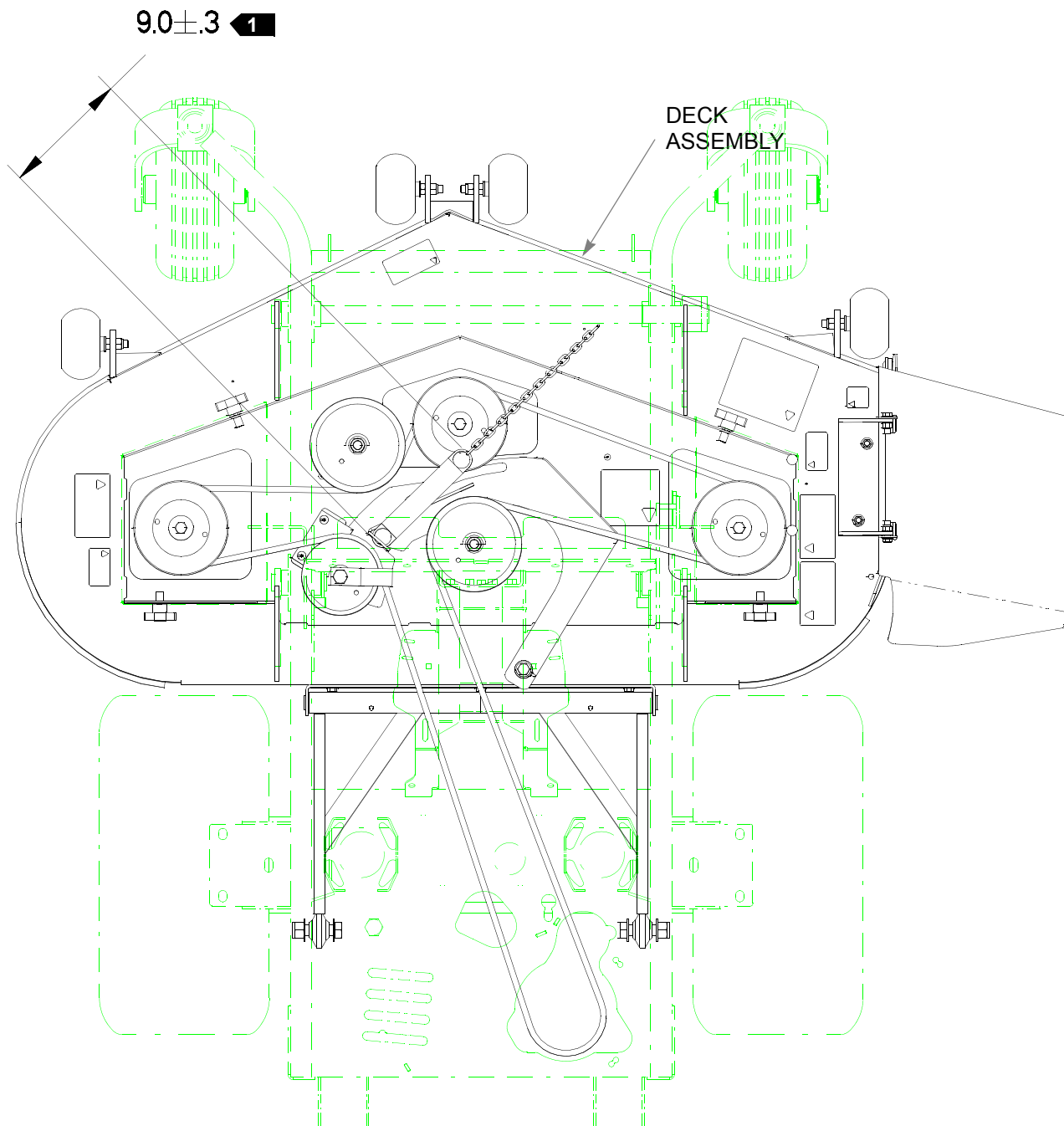
Deck Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	055749	055749	4	CS .437-14 X 1.750 HX G5 ZN
2	061101	061101	2	NT .750-10 HX NL ZN
3	025296	025296	4	FW .760 X 1.625 X.08 ZN
4	051169	051169	2	CS .750-10 X 3.000 HX G5 ZN
5	704643	704643	8	NT .437-14 HX FLG ZN

NOTES:

1. Install front deck hanger chains in lower holes only.
2. 60" Side Discharge Deck installation is shown, 72" and 52" Side Discharge Deck and Rear Discharge Deck installation is similar.

Deck Belt Routing and Tensioning



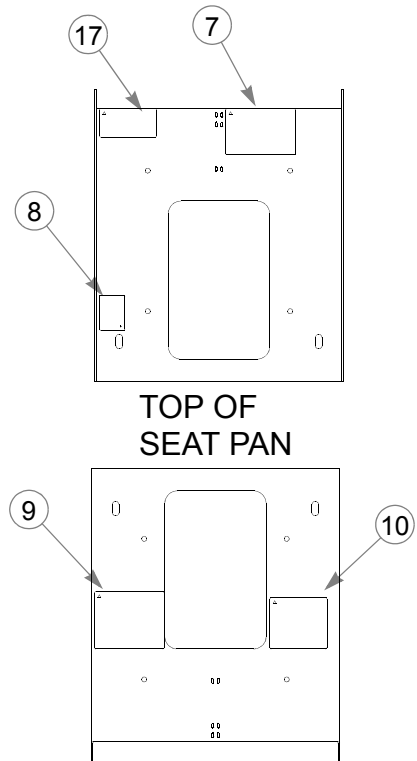
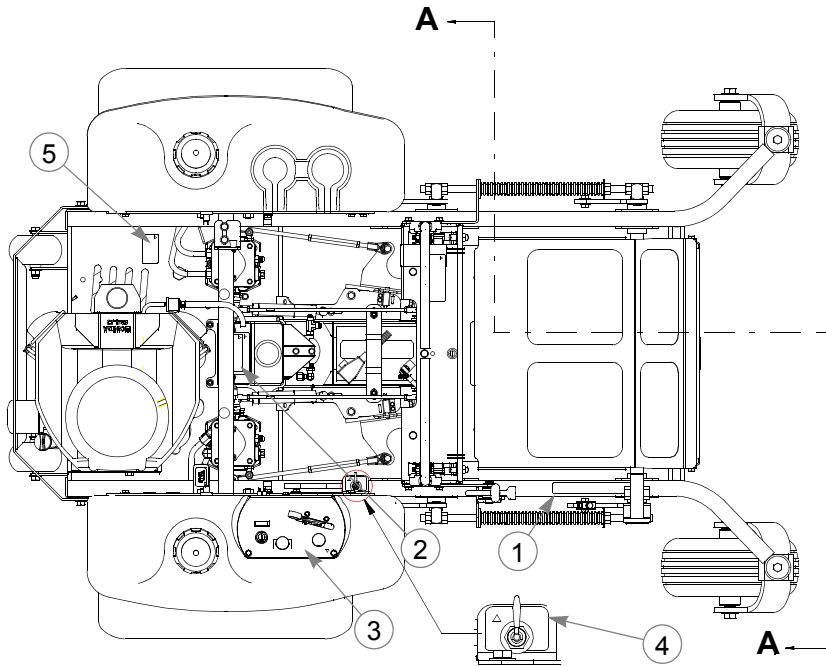
NOTES:

1. Spring length after tensioning belt. Measured from outside of hook to outside of hook.
2. Route belt as shown.
3. Side discharge deck is shown, rear discharge deck is similar.

Chapter 9 Contents

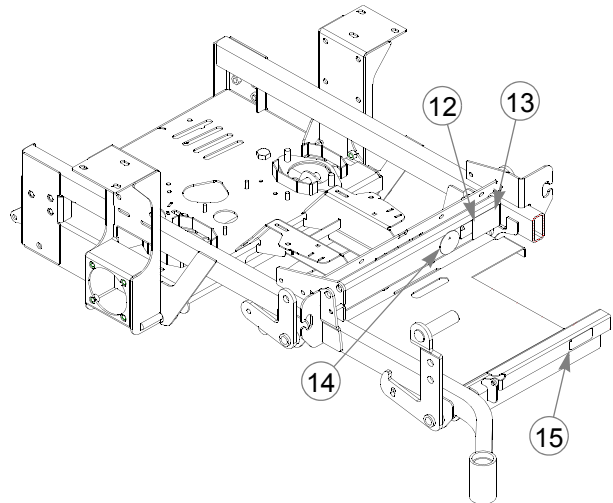
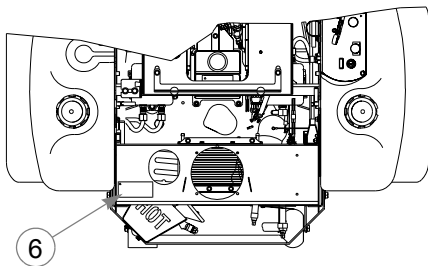
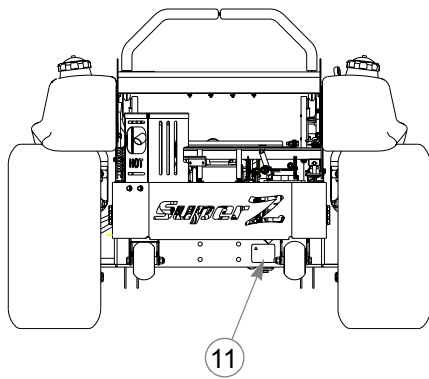
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52" Side Discharge Deck Decals	9-5
60" Rear Discharge Deck Decals	9-6
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Tractor Decals

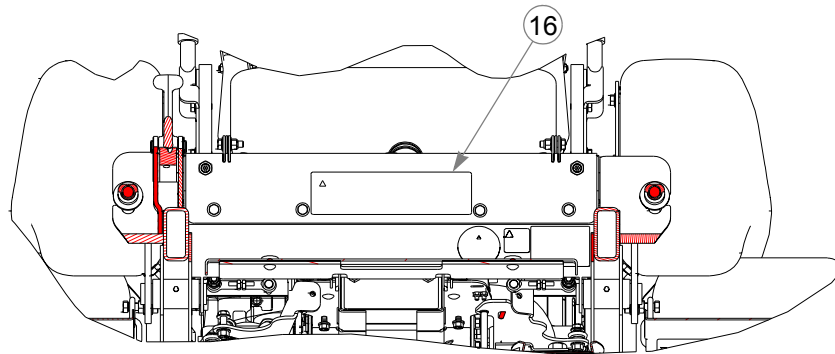


TOP OF SEAT PAN

BOTTOM OF SEAT PAN



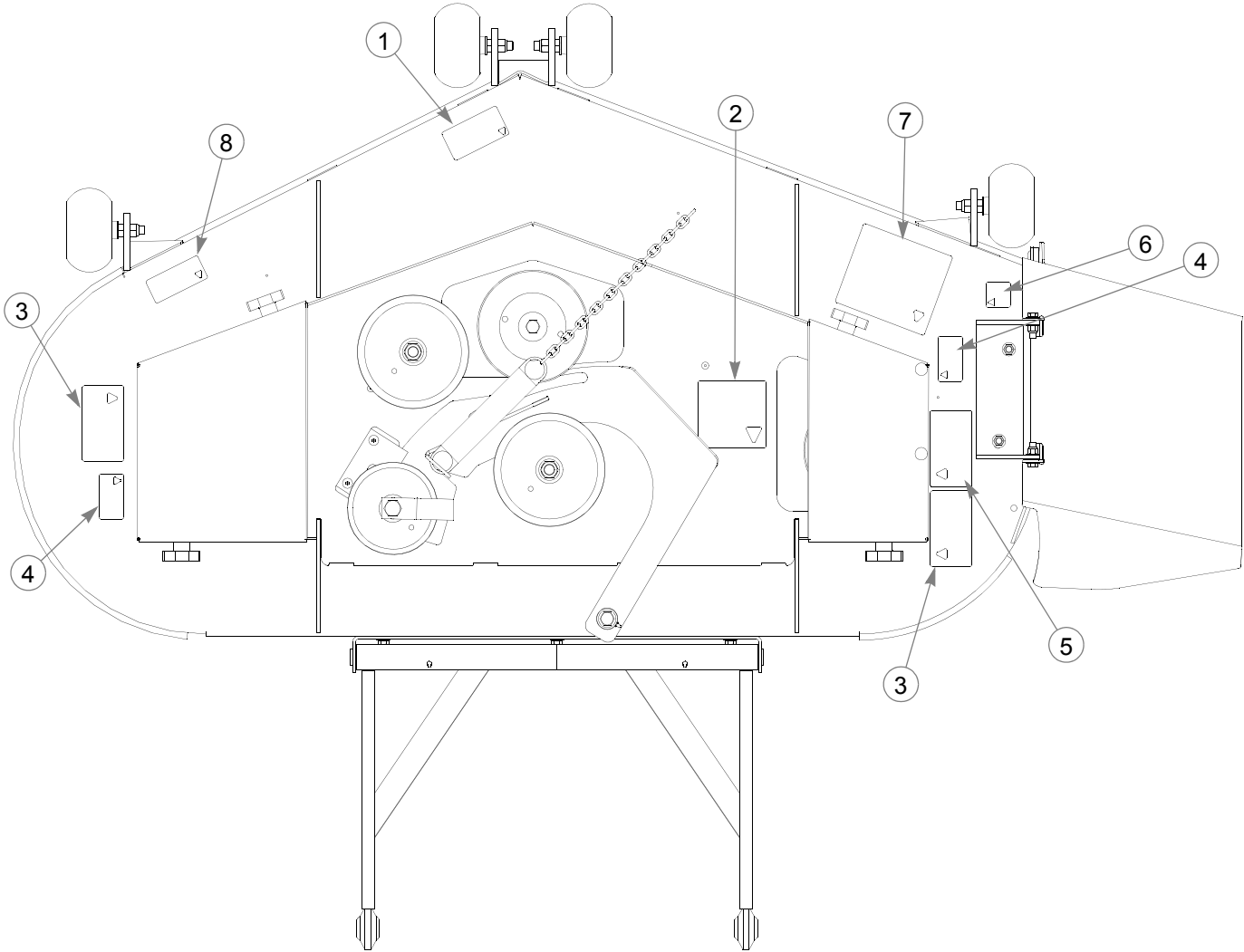
Tractor Decals



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	781427	781427	1	DECK HEIGHT INDICATOR DECAL
2	779280	779280	1	HOT & HYDRAULIC OIL DECAL
3	784702	784702	1	INSTRUMENT PANEL DECAL (AIR COOLED CARBURETOR ENGINES ONLY)
	789586	789586	1	EFI Z DASH PANEL DECAL
	789503	789503	1	3 INDICATOR LIGHT INSTRUMENT PANEL DECAL (26 HP LC ENGINE ONLY)
4	791830	791830	1	FUEL INDICATOR DECAL (CARBURATED ENGINES ONLY)
	791822	791822	1	FUEL INDICATOR-EFI DECAL (KOHLER EFI ONLY)
5	727008	727008	1	HYD PRESSURE DECAL
6	788968	788968	1	ENGINE COMPARTMENT DECAL
7	782136	782136	1	Z OPERATION DECAL
8	785188	785188	1	Z ARMREST WARNING DECAL
9	782128	782128	1	Z SERVICE DECAL
10	727016	727016	1	BATTERY DECAL
11	771436	771436	1	STABILIZER DECAL
12	727172	727172	1	MADE IN USA DECAL
13	N/A	083279	1	TURF PROD SERIAL NO PLATE
14	782573	782573	1	FIRST ZERO TURN DECAL
15	793588	793588	1	HUSTLER NAME PLATE
16	782615	782615	1	SUPER Z ID DECAL
17	600899	600899	1	PUMP BELT WARNING DECAL

NOTES:

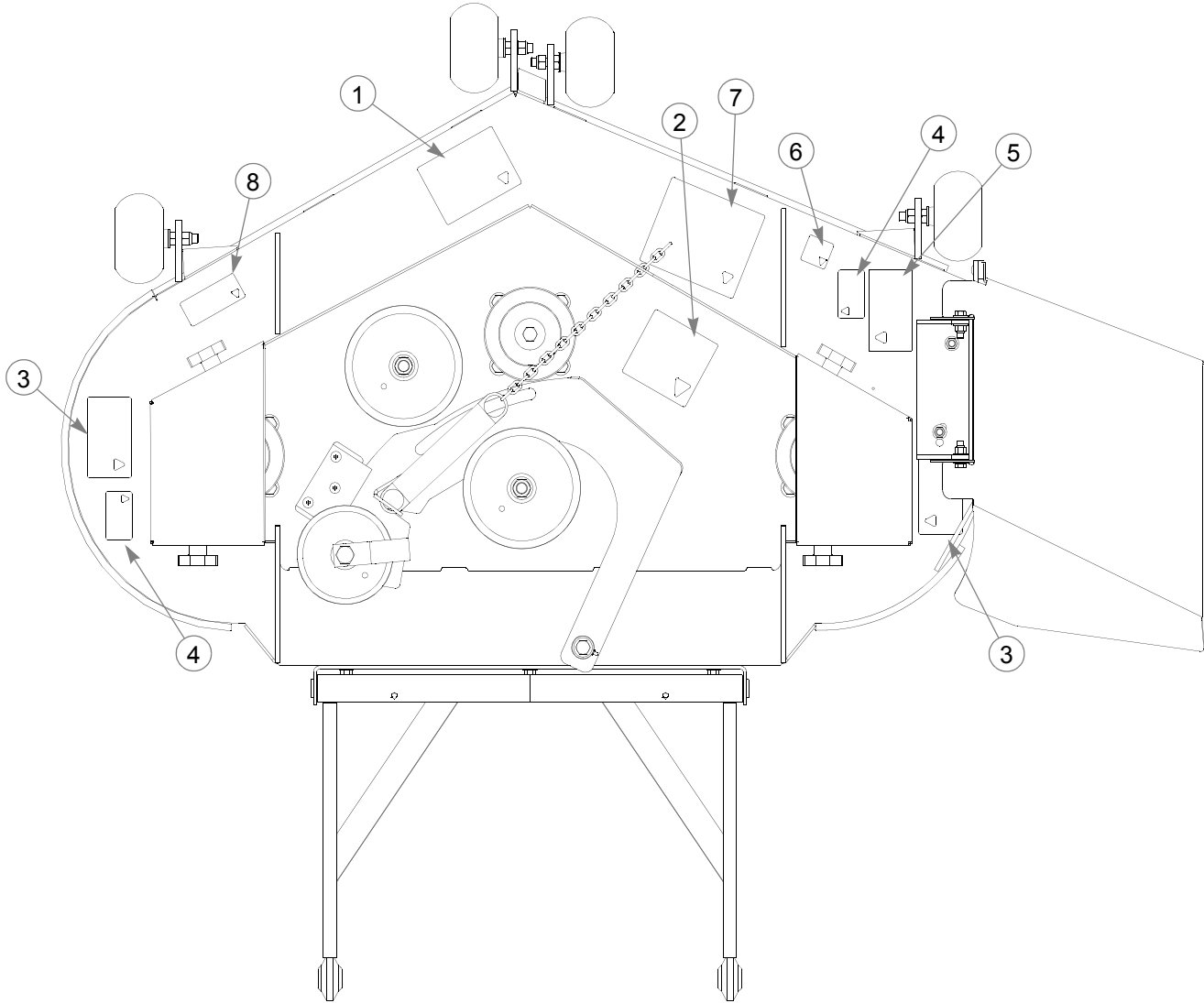
72" and 60" Side Discharge Deck Decals



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	786277	786277	1	60" DECK ID DECAL
	786285	786285	1	72" DECK ID DECAL
2	781419	781419	1	BELT ROUTING DECAL
3	727438	727438	2	WHIRLING BLADES DECAL
4	727453	727453	2	BELT & PULLEY DECAL
5	727420	727420	1	DEFLECTOR SHIELD DECAL
6	727172	727172	1	"MADE IN U.S.A." DECAL
7	760637	760637	1	MOWER DECK QUICK REFERENCE DECAL
8	797845	797845	1	FUSION DECAL

NOTES:

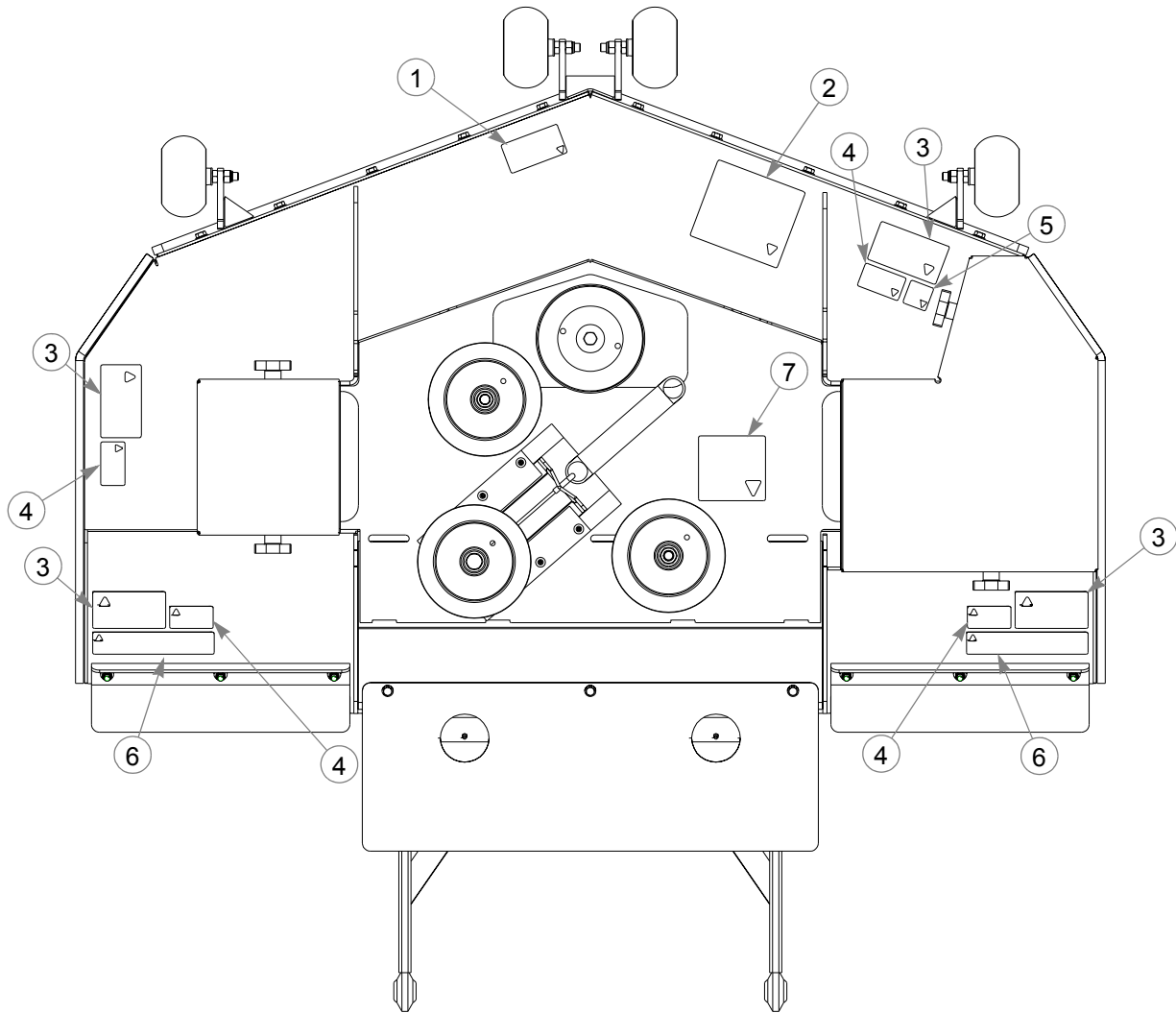
52" Deck Decals



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	785535	785535	1	52" DECK ID DECAL
2	781419	781419	1	BELT ROUTING DECAL
3	727438	727438	2	WHIRLING BLADES DECAL
4	727453	727453	2	BELT & PULLEY DECAL
5	727420	727420	1	DEFLECTOR SHIELD DECAL
6	727172	727172	1	"MADE IN U.S.A." DECAL
7	760637	760637	1	MOWER DECK QUICK REFERENCE DECAL
8	797845	797845	1	FUSION DECAL

NOTES:

Rear Discharge Deck Decals

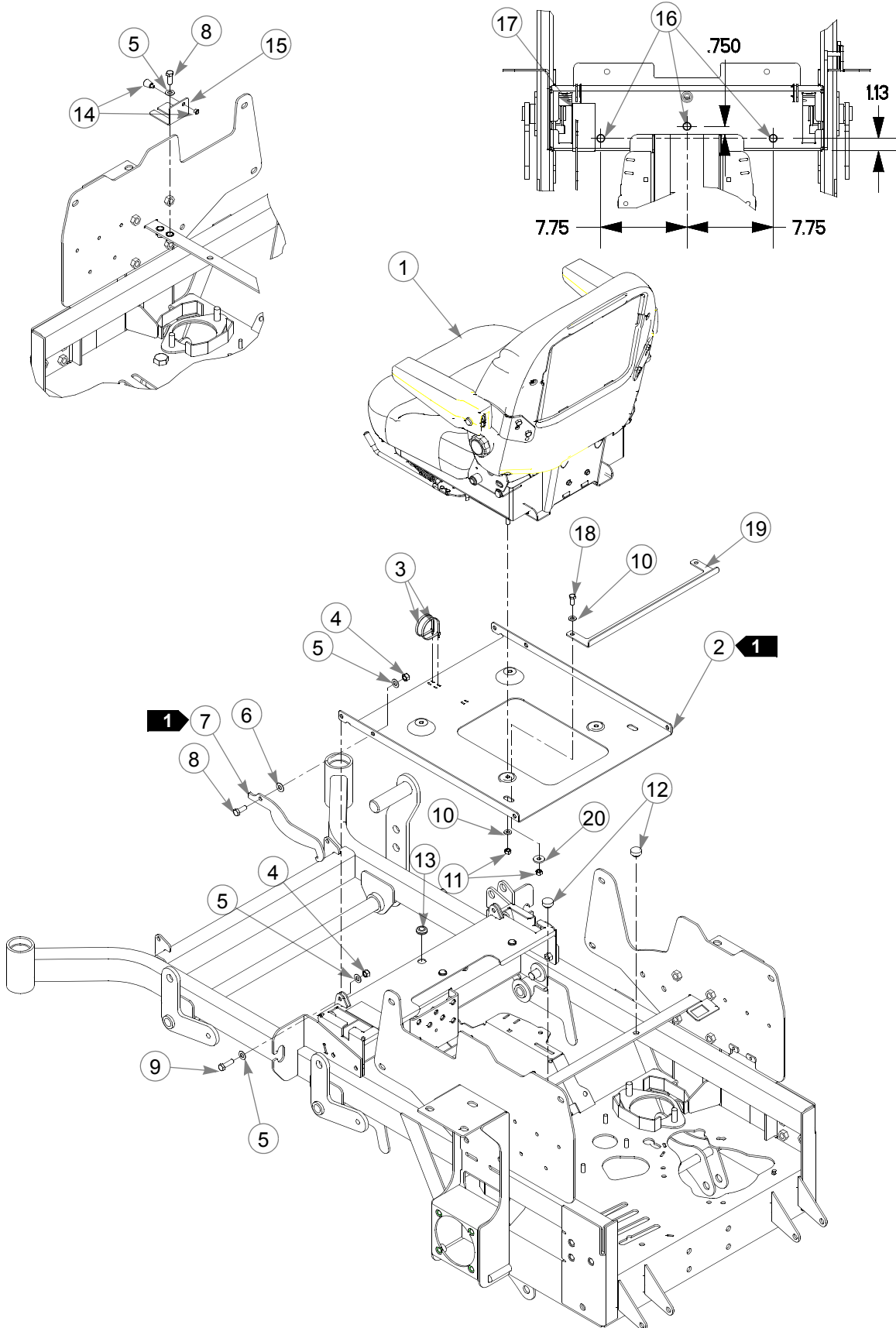


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	786277	786277	1	60" DECK ID DECAL
	786285	786285	1	72" DECK ID DECAL
2	760637	760637	1	MOWER DECK QUICK REFERENCE DECAL
3	727438	727438	4	WHIRLING BLADES DECAL
4	727453	727453	4	BELT & PULLEY DECAL
5	727172	727172	1	"MADE IN U.S.A." DECAL
6	727529	727529	2	HDDT DEFLECTOR DECAL
7	796953	796953	1	72" REAR DISCHARGE DECK ROUTING DECAL

NOTES:

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Seat Installation



Seat Installation

INDEX NO.	SERVICES PART NO.	MFG. PART NO.	QTY	DESCRIPTION	
	1	792051	792051	1	MICHIGAN SUSPENSION SEAT
	2	350041	350041	1	SEAT PAN
	3	000331	000331	2	BLACK CABLE TIE
	4	086660	086660	3	NT .375-16 HX LK NY
	5	767954	767954	7	FW .406 X .812 X .060 SAE HD ZN
	6	724716	724716	1	FIBER WASHER
	7	350421	350421	1	SEAT PAN STOP
	8	036244	036244	3	CS .375-16 X 1.000 HX G5 ZN
	9	052860	052860	2	CS .375-16 X1.250 HX G5 ZN
	10	768523	768523	4	FW .343 X .687 X .051/.080 HD ZN/Y
2	11	034272	034272	4	NT .312-18 HX G5 ZN
	12	781880	781880	2	BUMPER
	13	080358	080358	1	GM .50 X 1.00 X .75 X .12 GROMMET
	14	748756	748756	1	LATCH SPRING PLUNGER
	15	350462	350462	1	SEAT LATCH BRACKET
	16	781617	781617	3	RUBBER BUMPER
	17	722199	722199	1	2" WIDE SCOTCH POLYURETHANE 5.55" LONG
3	18	034280	034280	2	CS .312-18 X .750 HX G5
3	19	104521	104521	1	26HP LC KAWASAKI SEAT STOP
3	20	712927	712927	2	FW .344 X 1.00 X .12 HRD ZN

NOTES:

1. Must pivot freely.
2. Use quantity of 6 for 927558 & 927566 (Kawasaki 26 HP liquid cooled).
3. Used on 927558 & 927566 (Kawasaki 26 HP liquid cooled), only.
4. Service parts available for Michigan Suspension seats:

<u>PART NO.</u>	<u>DESCRIPTION</u>
793307	SLIDE KIT
793323	KNOB KIT
793281	BACK CUSHION KIT
793299	SEAT CUSHION KIT
793315	SEAT SWITCH
793265	MOLDED ARMREST (FITS BOTH ARMRESTS)
793273	ARMREST STOP ASSEMBLY
797571	SEAT BACK PANEL KIT

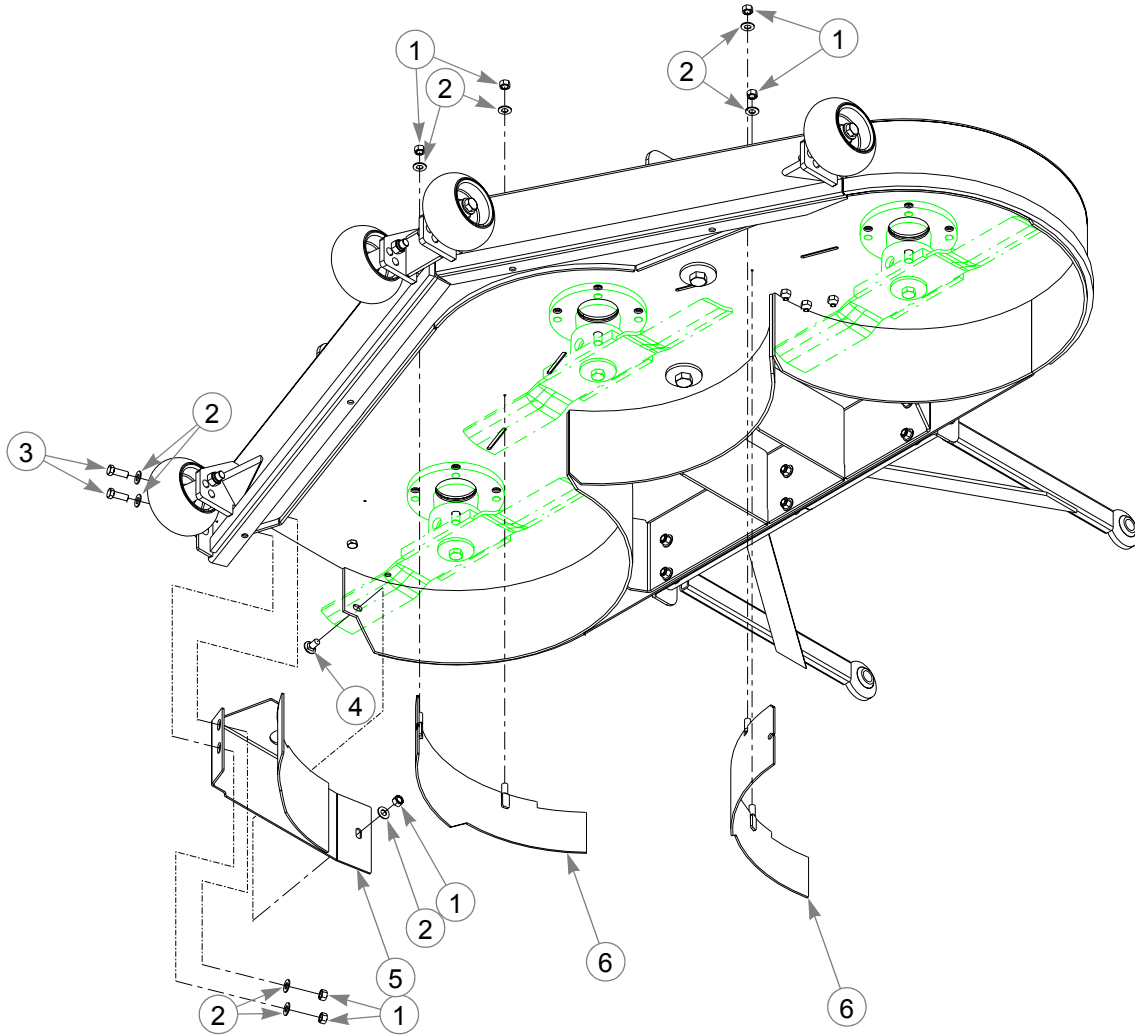
5. Service parts available for Milsco seats:

<u>PART NO.</u>	<u>DESCRIPTION</u>
782144	ADJUSTER, STANDARD AND LOW PROFILE SUSPENSION SEAT
782169	ARMREST FOR LOW PROFILE SUSPENSION SEAT
782177	OPERATOR PRESENCE SWITCH FOR SEAT
782185	CUSHION/PAN FOR LOW PROFILE SUSPENSION SEAT
783472	Z ARMREST ONLY KIT
797571	SEAT BACK PANEL KIT

Chapter 10 Contents

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52" Mulch Kit-344929	10-5
52" Mulch Kit-352435	10-6

72" and 60" Mulch Kits 3

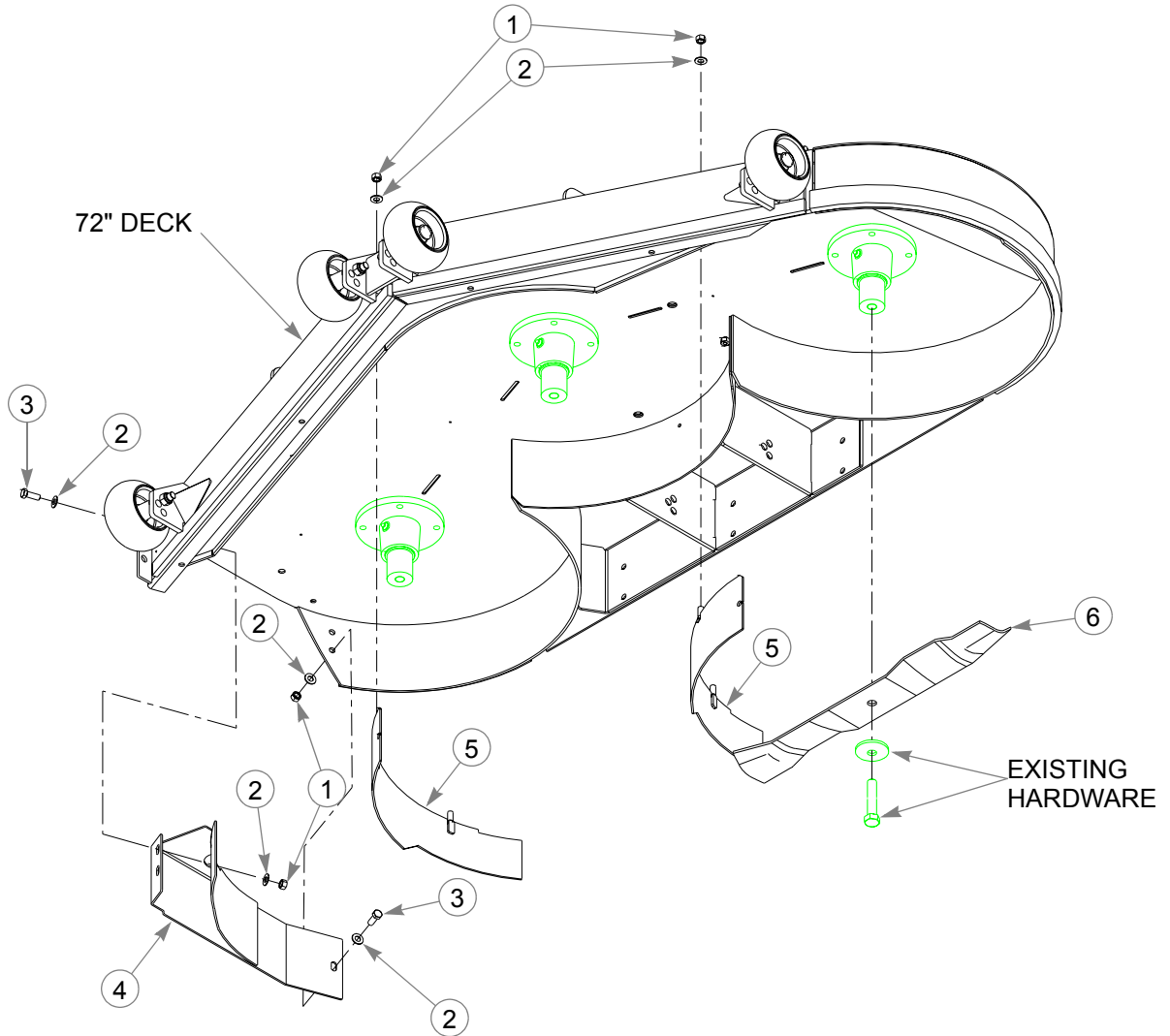


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	054502	054502	7	NT .375-16 HX GRD 5 ZN
2	767954	767954	9	FW .406 X .812 X .060 SAE HD ZN
3	036244	036244	2	CS .375-16 X 1.00 HX G5 ZN
4	011320	011320	1	CB .375-16 X .750 STD ZN
5	346056	346056	1	RIGHT MULCH BAFFLE
1 6	346023	346023	2	60" COMMON MULCH BAFFLE
2 6	348599	348599	2	72" COMMON MULCH BAFFLE

NOTES:

1. 60" Mulch Kit - 346411
2. 72" Mulch Kit - 357608
3. Used on mowers with serial numbers prior to 05011098.

72" Mulch Kit-352419

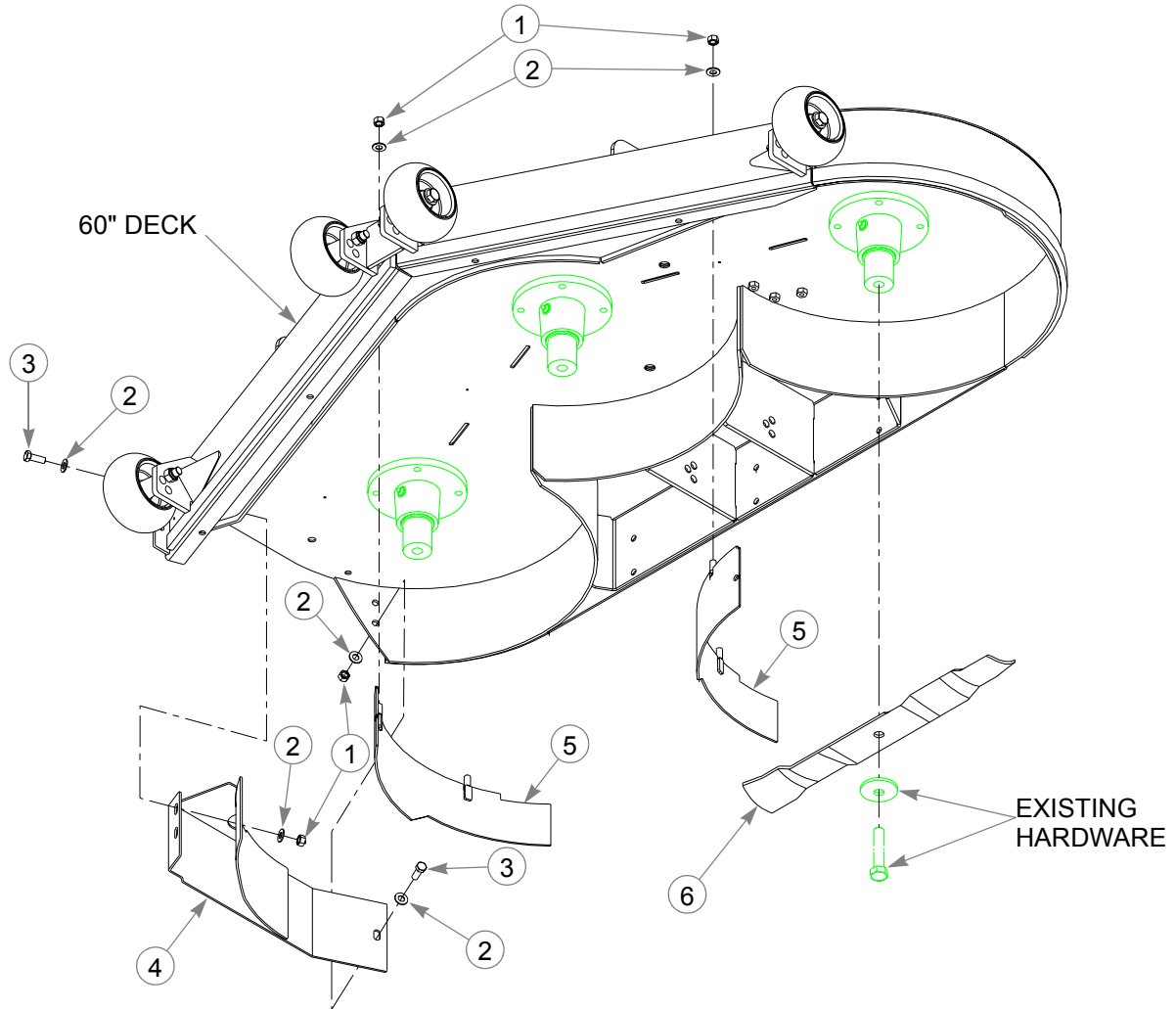


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	054502	054502	7	NT .375-16 HX GRD 5 ZN
2	767954	767954	10	FW .406 X .812 X.060 SAE HD ZN
3	036244	036244	3	CS .375-16 X 1.00 HX G5 ZN
4	100891	100891	1	RIGHT MULCH BAFFLE
5	348599	348599	2	72" COMMON MULCH BAFFLE
6	793398	793398	3	BLADE,23.86"-MUL-F-CW

NOTES:

1. Used on mowers with serial number 05011098 and later.

60" Mulch Kit-352427

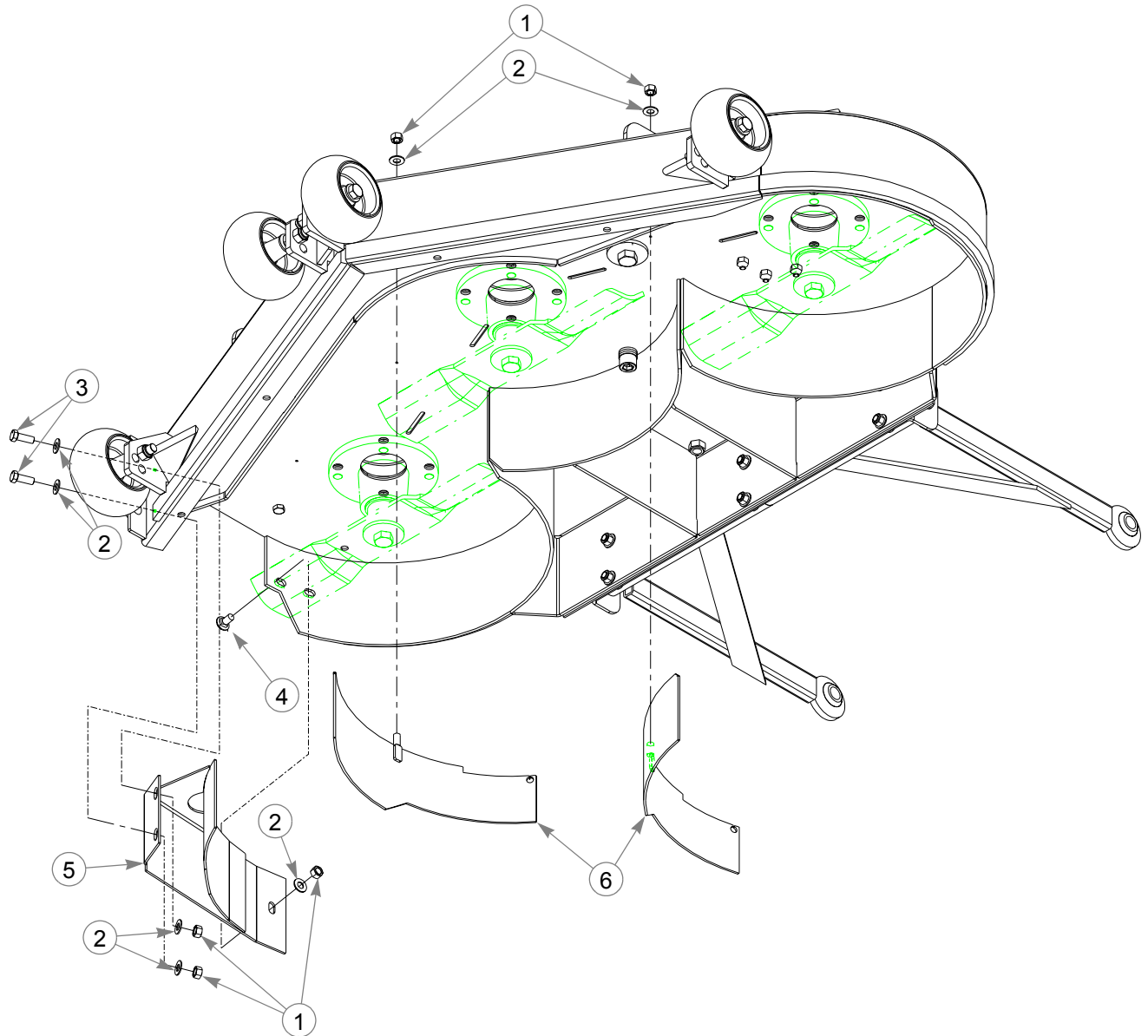


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	054502	054502	7	NT .375-16 HX GRD 5 ZN
2	767954	767954	10	FW .406 X .812 X .060 SAE HD ZN
3	036244	036244	3	CS .375-16 X 1.00 HX G5 ZN
4	100420	100420	1	RIGHT MULCH BAFFLE
5	348599	348599	2	72" COMMON MULCH BAFFLE
6	793380	793380	3	BLADE,23.86"-MUL-F-CW

NOTES:

1. Used on mowers with serial number 05011098 and later.

52" Mulch Kit-344929

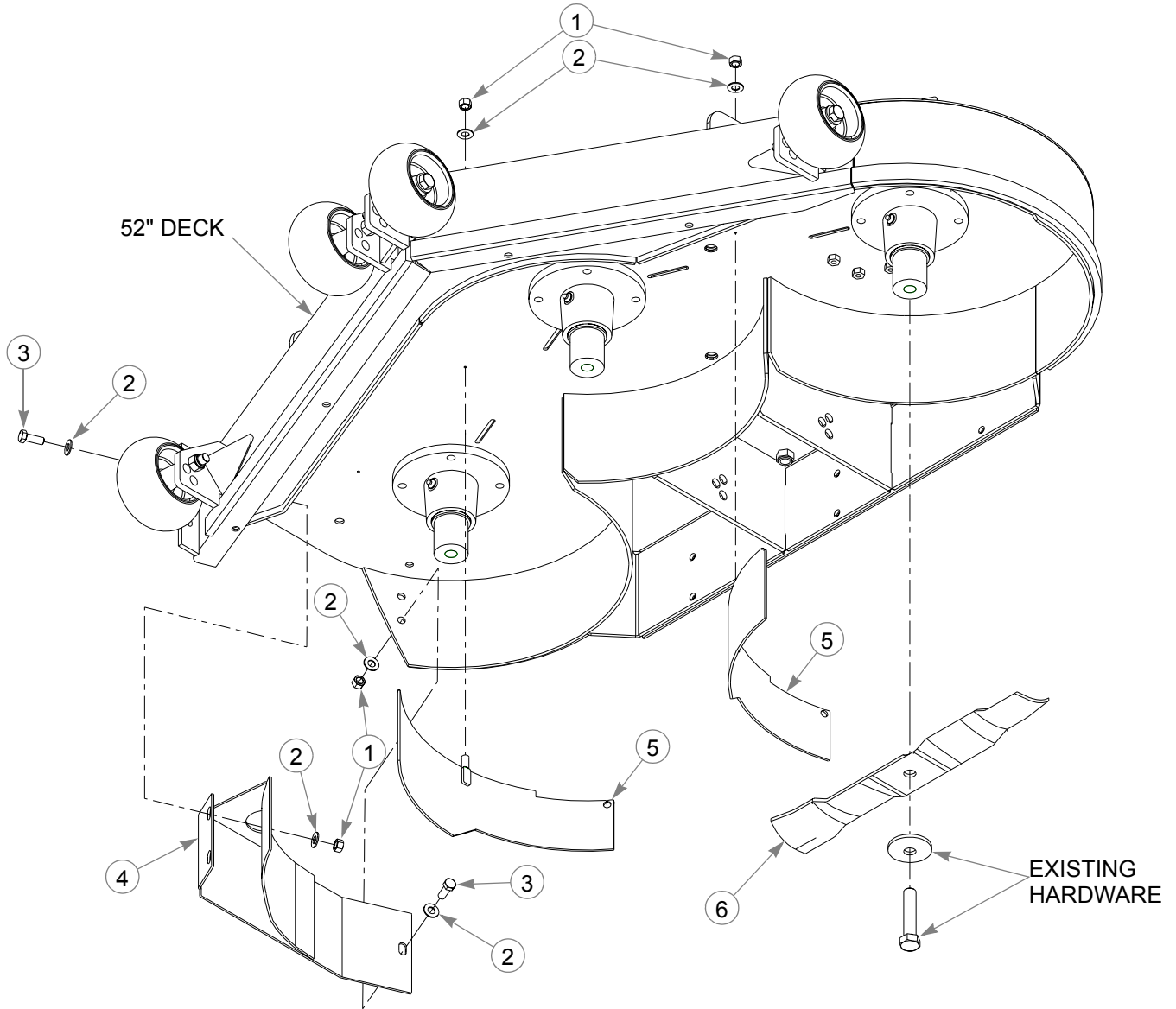


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	054502	054502	5	NT .375-16 HX GRD 5 ZN
2	767954	767954	7	FW .406 X .812 X.060 SAE HD ZN
3	036244	036244	2	CS .375-16 X 1.00 HX G5 ZN
4	011320	011320	1	CB .375-16 X .750 STD ZN
5	344796	344796	1	RIGHT MULCH BAFFLE
6	344945	344945	2	52" COMMON MULCH BAFFLE,

NOTES:

1. Used on mowers with serial numbers prior to 05011098.

52" Mulch Kit-352435



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	054502	054502	5	NT .375-16 HX GRD 5 ZN
2	767954	767954	8	FW .406 X .812 X .060 SAE HD ZN
3	036244	036244	3	CS .375-16 X 1.00 HX G5 ZN
4	100446	100446	1	RIGHT MULCH BAFFLE
5	344945	344945	2	72" COMMON MULCH BAFFLE
6	794198	794198	3	BLADE,17.86"-MUL-F-CW

NOTES:

Used on mowers with serial number 05011098 and later.

Chapter 11 Contents

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SAFETY PRECAUTIONS



This safety alert symbol is used to call attention to a message intended to provide a reasonable degree of **PERSONAL SAFETY** for operators and other persons during the normal operation and servicing of this equipment.

DANGER – denotes immediate hazards which **WILL** result in severe personal injury or death.

WARNING - denotes a hazard or unsafe practice which **COULD** result in severe personal injury or death.

This manual uses two other words to highlight information. **IMPORTANT** calls attention to special mechanical information and **NOTE**: emphasizes general information worthy of special attention.

All operators/mechanics should read this manual, or be instructed about safe operating and maintenance procedures. This is the owner's responsibility.

Improper use or maintenance by the operator, mechanic, or owner can result in injury. To reduce the potential for injury, comply with these safety instructions and always pay attention to the safety alert ▲ symbol, which means DANGER or WARNING - "personal safety instructions." Failure to comply with the instructions may result in personal injury or death.

Incorrect usage of this machine may result in severe injury. Personnel operating and maintaining it should be trained in the proper use and should read the manuals completely and thoroughly before attempting to set-up, operate, adjust, or service this machine.

The Quick Reference Decals, located under the right front of the seat, the right front of the deck, and under the seat pan, are designed to give the operator/mechanic brief information needed in the daily operation and service of the machine. These decals are not intended to be used in place of this manual but instead is to be used as an extension of this manual. These decals should not be removed or obliterated. Replace these decals if they become unreadable.

It is the **owner's responsibility** to make certain that the operator/mechanic reads and understands this manual and all decals before operating this machine. It is also the **owner's responsibility** to make certain that the operator/mechanic is a qualified and physically able individual, properly trained in the operation of this equipment. Local regulations may restrict the age of the operator/mechanic.

The owner should also ensure that the operator/mechanic know that they are responsible for their own safety as well as the safety of other persons within the vicinity. **Remember**, the operator/mechanic is responsible for accidents or hazards occurring to other people or their property.

Safe Maintenance & Adjustment Practices

This product is capable of amputating hands and feet and throwing objects. Always follow all safety instructions to avoid serious injury or death.

- ▲ Unless specifically required, **DO NOT** have engine running when servicing or making adjustments to tractor. Place control levers in the park brake position, disengage deck clutch, remove ignition switch key and disconnect the negative battery cable. Repairs or maintenance requiring engine power should be performed by trained personnel only. To prevent carbon monoxide poisoning, be sure proper ventilation is available when engine must be operated in an enclosed area.
- ▲ Follow daily and weekly checklists, making sure hoses are tightly secured and bolts are tightened.
- ▲ Keep your machine clean and remove any deposits of trash and

clippings, which can cause engine fires and hydraulic overheating as well as excessive belt wear. Clean up oil or fuel spillage. Allow machine to cool before storing.

- ▲ **Clean flammable material from machine. Prevent fires by keeping engine compartment, battery, hydraulic lines, fuel line, fuel tank and operator's station clean of accumulated trash, grass clippings, and other debris. Always clean up spilled fuel and oil.**
- ▲ Always wear adequate ear protection, such as earplugs, when operating this equipment as prolonged exposure to uncomfortable or loud noises can cause impairment or loss of hearing. Do not wear radios or music headphones while operating the machinery. Safe operation requires your full attention.
- ▲ Never put hands or feet under any part of the machine while it is running.
- ▲ Except when changing or checking belt, **always** keep belt covers on mower for safety as well as cleanliness.
- ▲ Stop the engine before removing the grass catcher or unclogging the discharge chute. Never clear the discharge chute with the engine running. Turn off the engine and be sure the blades have stopped before cleaning. Use a stick to clear a plugged discharge area. **Never use your hand!**
- ▲ Exercise caution when loading or unloading the machine onto a trailer or truck.
- ▲ Always wear safety goggles or safety glasses with side shields when operating the mower.
- ▲ Never leave machine unattended with ignition key in switch, especially with children present.
- ▲ Be alert and turn the machine off if children enter the area.
- ▲ Always wear adequate eye protection when servicing the battery, hydraulic system, cooling system or when grinding mower blades and removing accumulated debris.
- ▲ Use extra caution when handling gasoline and other fuels. They are flammable and vapors are explosive.
- ▲ Never refuel tractor while engine is running; never refuel near an open flame or near devices which can create a spark. Refuel outdoors preferably, or in well ventilated areas.
- ▲ Never attempt to start engine when there is a strong odor of gasoline fumes present. Locate and correct cause.
- ▲ Never run the engine in an enclosed area unless exhaust is vented to the outside. Exhaust gases contain carbon monoxide which is odorless and deadly poison.
- ▲ Never attempt to make any adjustments or repairs to the tractor drive system, mower deck or any attachment while the tractor engine is running or deck clutch is engaged. Repairs or maintenance requiring engine power should be performed by trained personnel only.
- ▲ Never work under the machine or attachment unless it is safely supported with jack stands. Make certain machine is secure when it is raised and placed on the jack stands. The jack stands should not allow the machine to move when the engine is running and the drive wheels are rotating. **Use only certified jack stands.** Use only appropriate jack stands, with a minimum weight rating of 2000 pounds to block the unit up. Use in pairs only. Follow the instructions supplied with the vehicle stands.
- ▲ Before working on or under the deck, make certain engine cannot be accidentally started. Shut engine off and remove ignition switch key for maximum safety. Repairs or maintenance requiring engine power should be performed by trained personnel only.
- ▲ Use a stick or similar instrument to clean under the mower making sure that no part of the body, especially arms and hands are under mower.
- ▲ Exercise caution when working under the deck as the mower blades are extremely sharp. Wearing gloves or wrapping the blade(s) is advisable when working around or with the blades.
- ▲ Do not touch hot parts of machine.
- ▲ Keep nuts and bolts tight, especially the blade attachment bolts. Keep equipment in good condition.
- ▲ Never tamper with safety devices. Check their proper operation

regularly.

- ▲ Grass collection system components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- ▲ Use only genuine Hustler replacement parts to ensure that original standards are maintained

Using a ramp

- ▲ Use extreme caution when loading and unloading a unit with a ramp.
- ▲ Use only a single, full width ramp; do not use individual ramps for each side of the unit. Having a full width ramp provides a surface for the tractor frame to contact if the unit starts to tip backwards. It also reduces the risk of a wheel going off and the machine tipping over.
- ▲ Do not exceed a 15 degree angle between the ramp and the ground or between the ramp and the trailer or truck.
- ▲ When on a ramp avoid sudden acceleration

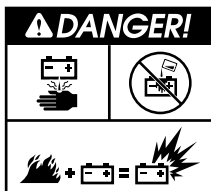
Safety and Instruction Decals

▲ Specific safety warning decals are located on the equipment near the immediate areas of potential hazards. These decals should not be removed or obliterated. Replace them if they become non-readable.

The following illustrations show the various **safety decals** that are located on the machine. A brief explanation is shown to help the operator understand the meanings of these decals.



Read Owner's Manual and Quick Reference Decals before attempting to operate this machine.



Part Number
727016

Avoid skin contact with battery acid. Always wear eye protection when checking the battery, acid can cause serious injury to skin and eyes. If contact occurs, flush area with clean water and call physician immediately. Acid will also damage clothing.

Do not allow open flame near the battery when charging.

Hydrogen gas forms inside the battery. This gas is both toxic and flammable and may cause an explosion if exposed to flame. Always remove the negative ground first and replace it last.

Do not overfill battery.

Electrolyte may overflow and damage paint, wiring or structure. When cleaning the battery, use soap and water. Be careful not to get soap and water into the battery. Use soda mixed in water to clean corrosion off the terminals.



Part Number
771436

Do not remove or modify stabilizer wheels or rear engine guard or injury can result.



Part Number
727008

Hydraulic fluid escaping under pressure can penetrate skin.

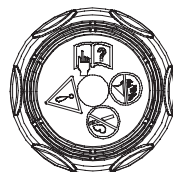
Hydraulic fluid may also cause infection in a minor cut or opening in the skin; if exposed to hydraulic fluid, see a doctor at once.

Before applying pressure to hydraulic system, make sure all connections are tight and all hoses and lines are in good condition.

Relieve all pressure in the system before disconnecting or working on hydraulic lines.

To find a leak under pressure, use a piece of cardboard or wood – never use your hands.

To relieve all pressure in system, turn engine off and lower attachment.



Do not smoke while refueling. Do not fill tank with engine running, or while the engine is hot. Allow engine to cool before storing machine inside a building. Store away from open flame or spark if there is fuel in tank. Clean up any gasoline spills. Do not refuel while in enclosed trailer or other enclosed areas



Part Number
727420

Never operate the mower deck with side deflector removed or in raised position, except when the grass catcher attachment is being used.



Part Number
727438

Whirling blades! Keep hands and feet away. Beware of thrown objects.



Part Number
727453

Keep shields or covers in place while machine is in operation. Keep hands away from rotating pulleys and belts.



Part Number
600899

If you lose steering control while operating the machine, place the steering control levers in the park brake position immediately. Inspect the machine and involve your Hustler dealer to resolve the problem before continuing to operate.

If pump belt fails, steering control will be lost. Refer to owner's manual for inspection and replacement intervals and refer to above paragraph for emergency procedures.



Part Number
788968

Keep engine and pump compartment(s) clean (especially in exhaust area) to prevent fire and provide maximum engine and hydraulic cooling.

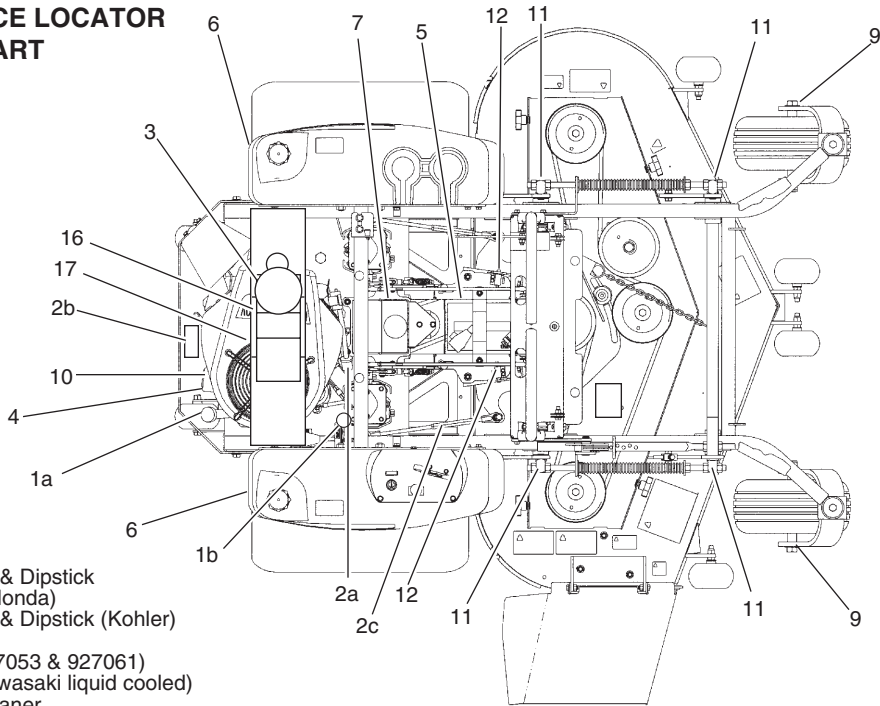


Part Number
779280

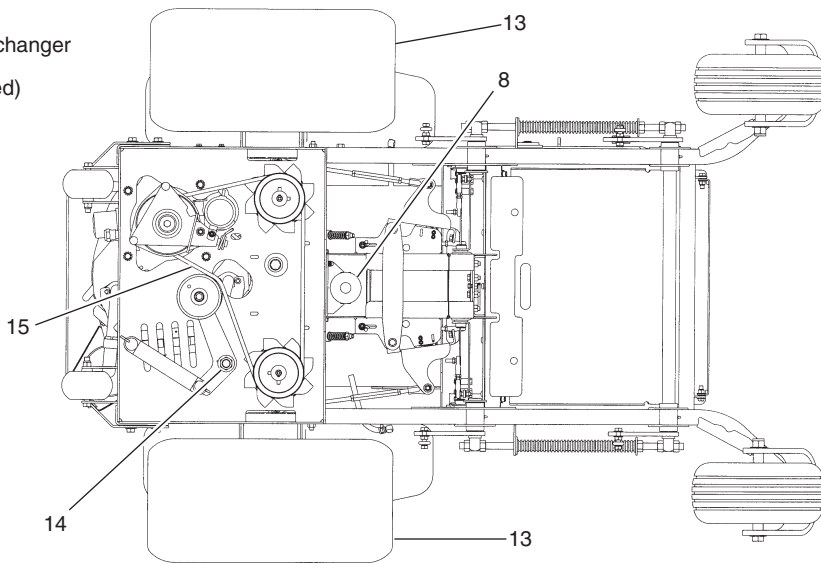
Hot surface!

MAINTENANCE

MAINTENANCE LOCATOR CHART



- 1a. Engine Oil Fill & Dipstick (Kawasaki & Honda)
- 1b. Engine Oil Fill & Dipstick (Kohler)
- 2a. Fuel Filter
- 2b. Fuel Filter (927053 & 927061)
- 2c. Fuel Filter (Kawasaki liquid cooled)
- 3. Engine Air Cleaner
- 4. Engine Oil Drain Plug
- 5. Battery
- 6. Fuel Tanks
- 7. Hydraulic Oil Reservoir
- 8. Hydraulic Oil Filter
- 9. Gauge Wheel Bearing Zerks (2)
- 10. Engine Oil Filter
- 11. Deck Height Pivot Zerks (4)
- 12. Park Brake Switch
- 13. Drive Tire
- 14. Pump Idler Zerk (1)
- 15. Pump Belt
- 16. Hydraulic Oil Heat Exchanger
- 17. Engine Coolant Fill (Kawasaki liquid cooled)

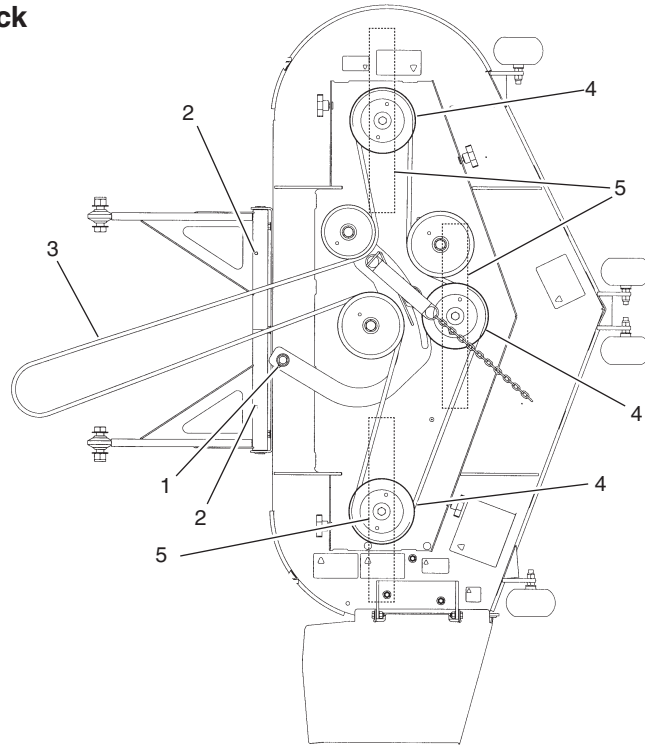


Viewed from bottom of tractor

Figure 11-1a

MAINTENANCE LOCATOR CHART

Side discharge deck



- 1. Deck Idler Zerk (1)
- 2. Deck Pusher Arm Zerks (2)
- 3. Deck Belt
- 4. Spindle Housing Zerk (3)
- 5. Blades

Rear discharge deck

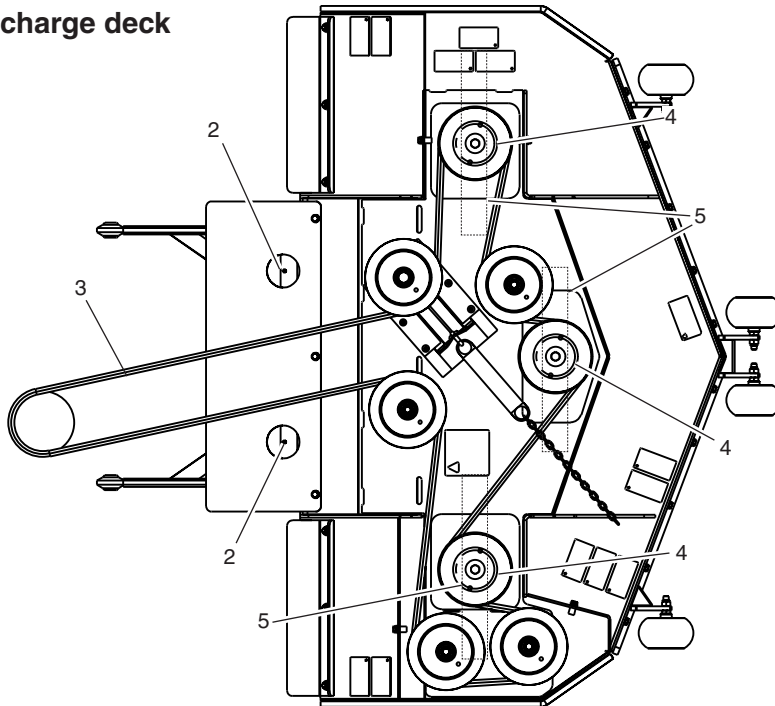


Figure 11-1b

SERVICE AT INTERVALS INDICATED	WEEKLY OR 50 HOURS	MONTHLY OR 100 HOURS	ANNUALLY OR 500 HOURS
Verify safety start interlock system			Daily
Check coolant level			Daily
Visually inspect unit for loose hardware and/or damaged parts			Daily
Visually inspect tires			Daily
Check oil level, engine (1)			Daily or every 4 hrs.
Clean air intake screen (5)			Daily or every 4 hrs.
Clean oil heat exchanger (5)			Daily or every 4 hrs.
Check radiator screen (5)			Daily or every 4 hrs.
Check fuel level			Daily
Blades - sharpen & securely fastened			Daily
Discharge chute - securely in place & in lowest position			Daily
Clean engine and pump compartment			Daily
Replace air cleaner paper element (5)			As needed
Grease deck idler	x		
Grease deck pusher arms	x		
Grease pump idler	x		
Grease deck height pivots	x		
Grease gauge wheel bearings	x		
Change engine oil & filter (1) (4)	x		
Clean cylinder and head fins (a)	x		
Check battery connections	x		
Check tire pressure with a gauge	x		
Check hydraulic oil level	x		
Clean engine exterior (a)	x		
Clean and regap spark plugs (a)		x	
Check pump and deck belt tension & condition (6)		x	
Check fuel and hydraulic lines (7)		x	
Check fuel valve and grommet (7)		x	
Tighten lug nuts on wheels (2)		x	
Change fuel filter			x
Clean or replace hydraulic fill cap			x
Change hydraulic filter and oil (3)			x
Grease deck spindle housings			x
Replace spark plugs			x
Drain & replace engine coolant			x
Clean radiator core (9)			x

NOTES:

- Initial oil change is after 5 hours of operation. Thereafter, change oil after every 40 hours operation. Change more often under dusty or dirty conditions and during hot weather periods.
- Torque initially and after first 2 hours of operation.
- Perform initial hydraulic filter change after 50 hours (one week) of operation.
- Change engine oil filter per the engine manufacturer's recommendations. Refer to Engine Owner's Manual for recommendations and other maintenance items.
- Service more often under dusty or dirty conditions. Use caution when servicing to prevent dust contamination in the engine. **Do not** clean filter element. Replace with a new one.
- Pump drive belt only - Inspect every 100 hours** and replace if worn or cracking is noticed. Otherwise, **replace every 400 hours or 2 years** whichever comes first.
- Check fuel line hoses, fuel valve and grommet for any cracks or leaks.

REFERENCES:

a — Refer to Engine Owner's Manual

NOTE: After completing maintenance cycle (500 hours), repeat cycle.

Introduction

Regular maintenance is the best prevention for costly downtime or expensive, premature repair. The following pages contain suggested maintenance information and schedules which the operator should follow on a routine basis.

Remain alert for unusual noises, they could be signaling a problem. Visually inspect the machine for any abnormal wear or damage. A good time to detect potential problems is while performing scheduled maintenance service. Correcting the problem as quickly as possible is the best insurance.

Clear away heavy build-up of grease, oil and dirt, especially in the engine and hydraulic reservoir area; minute dust particle are abrasive to close-tolerance engine and hydraulic assemblies.

Daily inspect mower for grass clippings and wire and string tangles. The underside of the mower deck will collect a build-up of grass clippings and dirt, especially when grass is wet or has high moisture content. This build-up will harden, restricting blade and air movement and will probably show a poorer quality of cutting. Therefore it should be removed routinely.

To do this it will be necessary to raise and block the deck in the full up position and scrape the build-up from underneath.

Some repairs require the assistance of a trained service mechanic and should not be attempted by unskilled personnel. Consult your Hustler service center when assistance is needed.

Torque values



WARNING: Particular attention must be given to tightening the drive wheel lug nuts, wheel motor nuts, and blade spindle bolts. Failure to correctly torque these items may result in the loss of a wheel or blade, which can cause serious damage or personal injury.

Torque values given below:

	Ft-lbs.	Nm
Wheel (lug) nuts.....	65-75	88.14-101.7
Wheel motor nut	290-310	393.2-420.4
Blade spindle bolt top	65-75	88.14-101.7
Blade spindle bolt bottom (spindle with blade saddle)	65-75	88.14-101.7
Blade spindle bolt bottom (spindle without blade saddle)	118	160.0

It is recommended that these be checked after the first 2 hours of operation, initially and every 50 hours following removal for repair or replacement.

For all other torques refer to the tractor parts manual for standard torque chart.

For engine torque values, see engine owner's manual.

Tires

It is important for level mowing that the tires have the same amount of air pressure. The recommended pressure are:

Drive wheels.....	8-10 psi
Gauge wheels	8-10 psi

Solid fill tires are not recommended for Hustler turf equipment. On any machine, with solid filled tires, the warranty claim will be denied.



WARNING: Explosive separation of a tire and rim can cause serious injury or death.

Do not attempt to mount a tire without the proper equipment and experience to perform the task.

Always maintain the correct tire pressure and never over inflate. Never weld or heat a wheel and tire assembly as an explosion may occur. Welding can weaken or deform a wheel.

When inflating tires stand to one side and **not** in front of or over the tire assembly.

Check tires for low pressure, blemishes, damaged rims or missing lug bolts and nuts.

Hour meter

To recognize when your machine needs servicing, check the hour meter and the maintenance schedule. The hour meter shows the number of hours the engine has run and the maintenance schedule lists the service intervals. Fig. 11-2

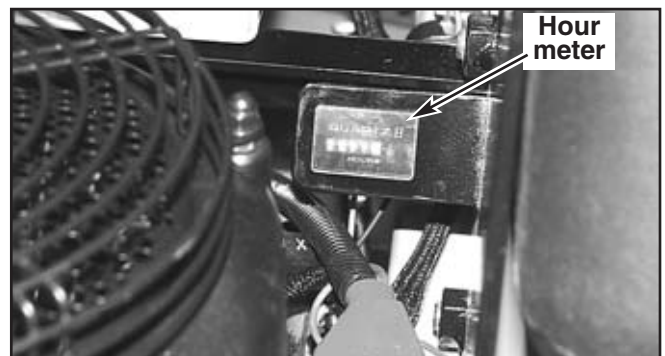


Figure 11-2

Lubrication

1. Grease the front gauge wheel bearings per the Maintenance Schedule. Use SAE multi-purpose grease.
2. Grease the four deck lift pivots, located to the side of the operator's footrest per the Maintenance Schedule. Use SAE multi-purpose grease.
3. Grease the deck idler per the Maintenance Schedule. Use SAE multi-purpose grease.
4. Grease the pump idler per the Maintenance Schedule. Use SAE multi-purpose grease.
5. Grease the two deck pusher arm pivots per the Maintenance Schedule. Use SAE multi-purpose grease.
6. Grease the blade spindle assemblies per the Maintenance Schedule. The spindle assemblies require lubrication annually. Each spindle shaft is equipped with a grease zerk located under the deck. Use no more than one or two ounces of SAE multi-purpose grease, (1 to 2 pumps on an average grease gun). Do not force lubricant in to grease zerks. Bearings are sealed and do not require much lubricant.

Electrical system

The electrical system is a 12 volt, negative ground. Recommended battery size is a garden tractor BCI group U1R with 225 or better cranking AMP rating. A maintenance-free battery is recommended. Otherwise, follow battery manufacturer's maintenance, safety, storing and charging specifications.

The battery is located under the seat. Fig. 11-3



WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to cause cancer and reproductive harm. Wash hands after handling.



WARNING: Avoid skin contact with battery acid. Always wear eye protection when checking the battery, acid can cause serious injury to skin and eyes. If contact occurs, flush area with clean water and call physician immediately. Acid will also damage clothing.

Do not allow open flame near the battery when charging.

Hydrogen gas forms inside the battery. This gas is both toxic and flammable and may cause an explosion if exposed to flame. Always remove the negative ground first and replace it last.

Do not overfill battery.

Electrolyte may overflow and damage paint, wiring or structure. When cleaning the battery, use soap and water. Be careful not to get soap and water into the battery. Use soda mixed in water to clean corrosion off the terminals.



WARNING: Shorts caused by battery terminals or metal tools touching metal tractor components can cause sparks. Sparks can cause a battery gas explosion which will result in personal injury. Prevent the battery terminals from touching any metal tractor parts when removing or installing the battery.

Do not allow metal tools to short between the battery terminals and metal tractor parts.



WARNING: Incorrect battery cable routing could cause damage to the tractor and battery cables. This can cause sparks which can cause a battery gas explosion which will result in personal injury. Always **disconnect** the negative (black) battery cable before disconnecting the positive (red) cable.

Common circuit failures are usually caused by shorting, corroded or dirty terminals; loose connections, defective wire insulation or broken wires. Switches, solenoids and ignition components may also fail, causing a shorted or open circuit.

Before attempting any failure diagnosis of the electrical system, use a test light or voltmeter to check the battery voltage. If the battery voltage is satisfactory, check the cleanliness and tightness of the terminals and ground connections. A general understanding of electrical servicing and use of basic test equipment is necessary for troubleshooting and repair.

Major overhaul or repair of the starting motor or alternator should be performed by trained technicians only.

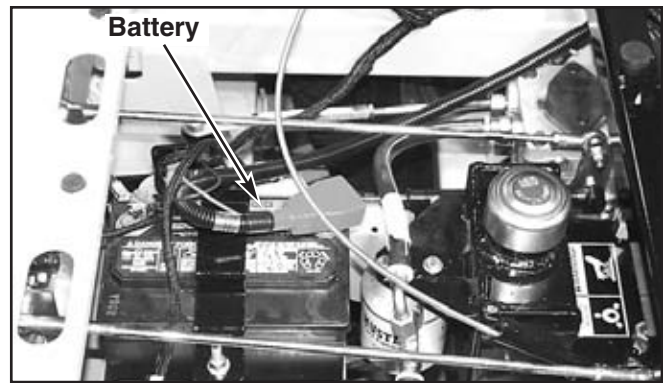


Figure 11-3

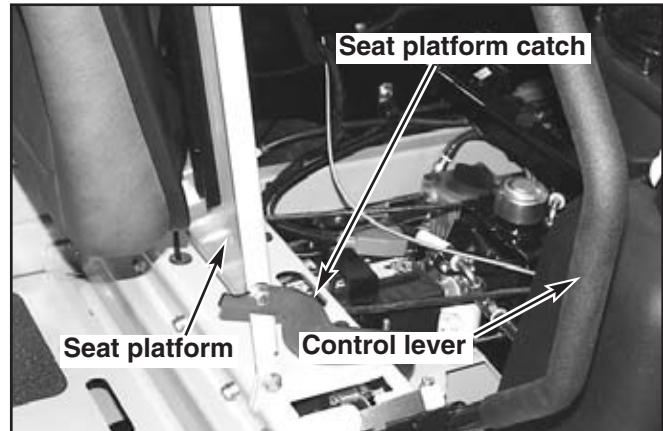


Figure 11-4

Access to engine and hydraulic pumps

The hydraulic pumps are accessed by lifting the seat platform. The seat platform is hinged at the front. To raise it, release seat latch and tilt seat platform up and forward. The seat platform catch (Fig. 11-4) will prevent the seat from going all the way over. However, if more access is desired under the seat platform, the seat platform catch can be raised allowing the seat to pivot more. **Make certain to place the control arms in the park brake position and pivot the arm rests upward before placing the seat platform in the full forward position to prevent arm rest damage.**



WARNING: Always wear adequate eye protection when servicing the hydraulic system, cooling system and battery.

Hydraulic system

IMPORTANT: Never use hydraulic or automatic transmission fluid in this system; use only motor oil as specified. Remember, dirt is the primary enemy of any hydraulic system.



WARNING: Hydraulic oil escaping under pressure can penetrate skin. Hydraulic oil may cause infection in a minor cut or opening in the skin. If exposed to hydraulic fluid, see a doctor at once. Before applying pressure to hydraulic system, make sure all connections are tight and all hoses and lines are in good condition. To find a leak under pressure, use a piece of cardboard or wood — **never** use your hands. Relieve all pressure in the system before disconnecting or working on hydraulic lines. To relieve pressure, lower all attachments and shut off engine.

The 1.0 U.S. gallon (3.79 liter) hydraulic reservoir is located in front of the engine and under the operator's platform. Fig. 11-5

Check oil level in hydraulic system after every 50 hours of operation or weekly, whichever occurs first. Check more often if system appears to be leaking or otherwise malfunctioning.

Fluid level should be 1" from top of reservoir. Use only SAE 10W40 SG, SF/CC, CD service motor oil.

Change hydraulic system filter element (Fig. 11-5) after first 50 hours

of tractor operation, then replace filter and oil in reservoir every 500 hours thereafter. When changing hydraulic oil use 1/2 unit (approximately 3.5 oz.) of Lubrizol additive (Hustler P/N 027912). This additive, available from your Hustler dealer, will increase the performance life of the hydraulic system components.

The system filter is located directly in front of the hydraulic reservoir. A standard oil filter wrench is used to change filter, threads are right handed. Use a **Hustler approved filter element only**.

IMPORTANT: Prefill the filter element with clean oil, before installing, to prevent drawing air into the system pump.

1. Fill the filter element with clean system oil. Smear a light coating of oil on upper surface of rubber seal.
2. Install the filter element on base. Tighten the oil filter by hand until the filter seal makes contact with the filter head, then tighten an additional 3/4 - 1 turn with an oil filter wrench. — DO NOT OVERTIGHTEN.
3. Start tractor engine and let run at approximately 2/3 throttle for a few minutes to work any trapped air out of the system before engaging the steering control lever.
4. Stop the engine and check the filter and connections for leaks.
5. Check the hydraulic reservoir for specified oil level. Add clean oil as necessary.

Clean or replace hydraulic reservoir cap annually. Cap may be cleaned by dipping in or flushing with cleaning solvent. Follow manufacturer's instructions and warnings for application of solvent type selected.

A hydraulic oil heat exchanger is installed on the Super Z. This heat exchanger is designed to keep hydraulic system oil temperature lower in hot operating conditions or heavy continuous operating conditions.

This hydraulic heat exchanger is located above the engine. Air is drawn across the cooling fins by an electric fan located above the heat exchanger. Fig. 11-6

Never force anything into the heat exchanger fins which may bend or distort them. For cleaning, use compressed air or pressurized water only.

Fuel system



DANGER: Observe usual fuel handling precautions:

Do not smoke while refueling.

Do not fill tank with engine running or while engine is hot. Clean up any gasoline spills.

Allow engine to cool before storing machine inside a building.

Keep fuel away from open flame or spark and store machine away from open flame or spark if there is fuel in the tank.

Use extra caution when handling gasoline and other fuels. They are flammable and vapors are explosive. A fire or explosion from gasoline can burn you and others and can damage property.

Refuel outdoors preferably, or in well ventilated areas.

Never attempt to start engine when there is a strong odor of gasoline fumes present. Locate and correct cause.

Store gasoline in an approved container and keep it out of the reach of children. Never buy more than a 30 day supply of gasoline.

Always place gasoline containers on the ground away from your vehicle before filling.

Do not fill gasoline containers inside a vehicle or on a truck or trailer as interior carpets or plastic truck bed liners may insulate the container and slow the loss of any static charge.

When practical, remove equipment from the truck or trailer and refuel the equipment with its wheels on the ground. If this is not possible, then refuel the equipment on the truck or trailer using a portable container and not a gasoline dispenser nozzle. If a gasoline dispenser nozzle must be used, keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete.



WARNING: Gasoline is harmful or fatal if swallowed.

Long-term exposure to vapors can cause serious injury and illness.

Avoid prolonged breathing of vapors.

Keep face away from nozzle and gas tank or conditioner opening.

Keep gas away from eyes and skin.

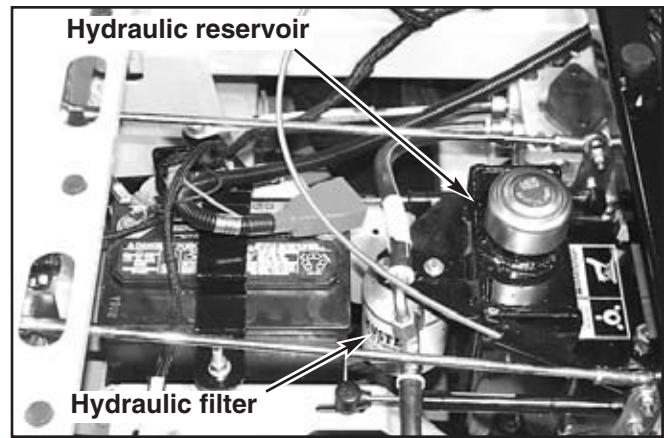


Figure 11-5

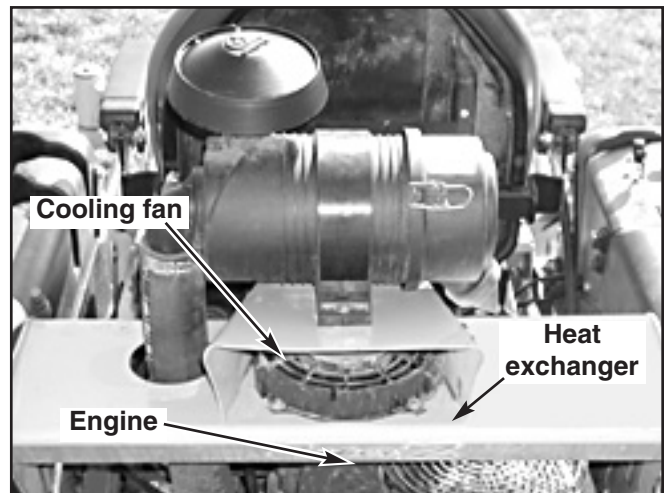


Figure 11-6



WARNING: Fuel System Under Pressure! The EFI fuel system operates under high pressure, and the fuel filter and fuel line used must be approved system components only. Use of substitute parts can result in system failure, gasoline leakage and possible explosion.

The fuel tanks are located in the tractor's fenders. (Fig. 11-7) Total capacity for the fuel tanks is 15 U.S. gallon (56.8 liter)

Use regular unleaded gasoline with an octane rating of 87 or higher.

The fuel filter (Fig. 11-8) is installed in the fuel line between fuel tanks and engine fuel pump. Replace filter annually or after every 500 hours of



Figure 11-7

operation, whichever occurs first.

When replacing the fuel filter, check the fuel line hoses and fuel shut-off valve grommet for any cracks or leaks. Replace as needed.

Super Z tractors are equipped with a fuel shutoff valve located on the right fuel tank mount (Fig. 11-9a). Rotate the valve to the middle position (shown) to prevent fuel flow to the fuel pump. The forward position allows fuel to flow from the right fuel tank to the fuel pump. The rear position allows fuel to flow from the left fuel tank to the fuel pump. Close this valve to prevent fuel flow to the engine when servicing the fuel system or when transporting the unit on a trailer or truck.

NOTE: Models 927053 & 927061 are equipped with a fuel shutoff valve located on the right fuel tank mount (Fig. 11-9b). Rotate the valve to the forward position to prevent fuel flow to the fuel pump. The middle position (shown) allows fuel to flow from the right fuel tank to the fuel pump. The rear position allows fuel to flow from the left fuel tank to the fuel pump.

Engine oil and filter

Check engine oil daily and after every 4 hours of operation. Crankcase dipstick and oil filler tube are located at the rear of the machine (Fig. 11-10). Tractor must be setting level when checking oil. Refer to engine manual and maintenance schedule for oil recommendation and capacities.

Change the engine oil and filter after the first 5 hours of operation, per the engine manufacturer's recommendations after that. If tractor is being operated in extremely dirty conditions, then it is recommended oil be changed more frequently.

The oil drain and oil filter are located at the rear of the engine. Fig. 11-10

Engine air filter

Perform engine air filter maintenance per the Service Interval chart on page 11-9.

A specially designed dry filter is standard equipment on the Super Z tractors and supplies clean combustion air to the engine. Fig. 11-11

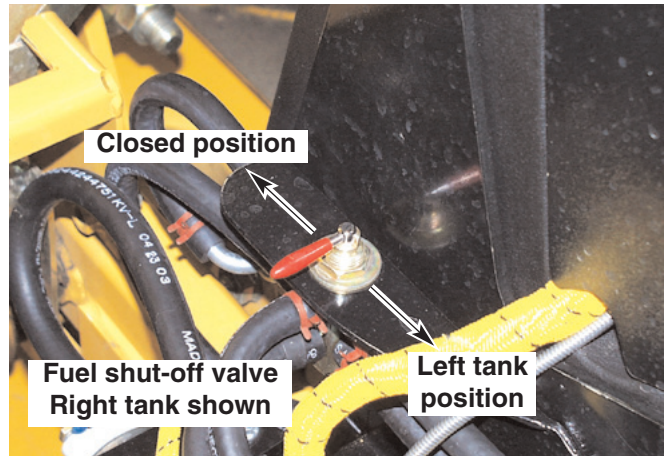


Figure 11-9b

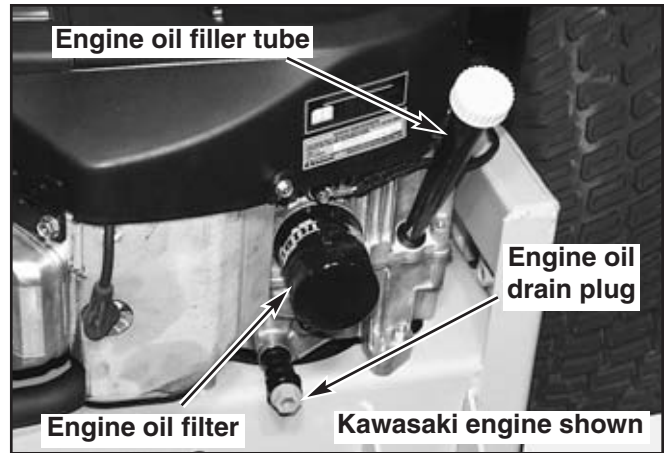


Figure 11-10

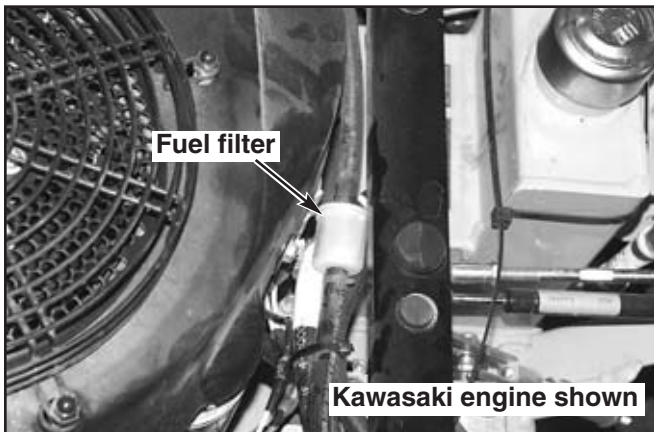


Figure 4-8

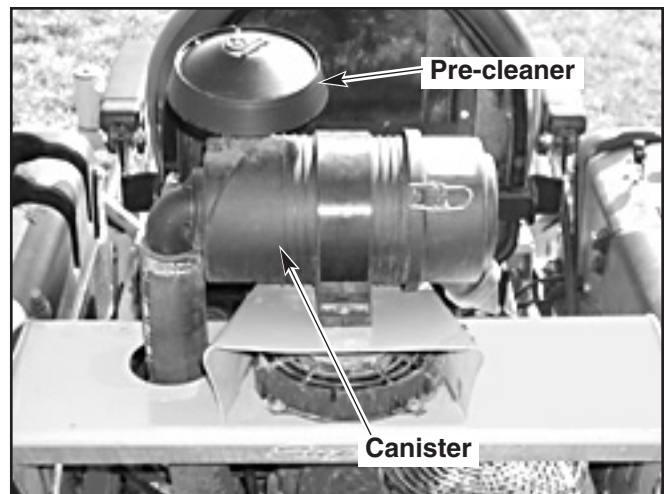


Figure 11-11

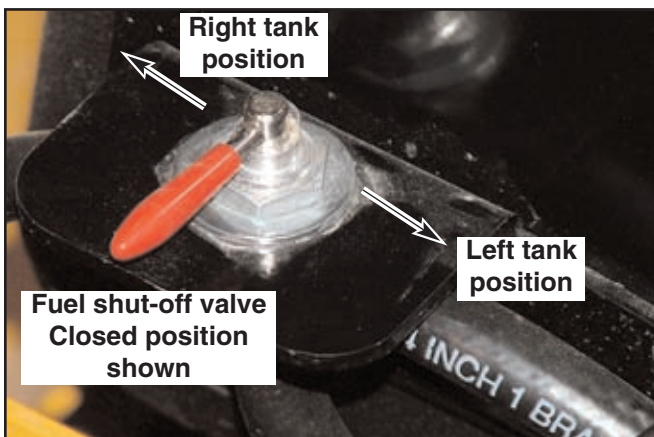


Figure 4-9a

Safety filter

The Super Z liquid cool tractor is equipped with a safety filter. The filter element slides over the safety filter. Use Hustler part number 785279 only when replacing the safety filter.

NOTE: The safety filter does not require servicing unless it becomes contaminated with dirt or moisture.

Recommended service procedure

Many engine failures can be attributed to improper air cleaner servicing. Ingested dust and dirt will cause cylinder, piston and bearing damage in a few hours. "Dusted" engines will result from:

1. Overservicing the air filter element.

2. Improper installation.
3. Damaged filter, seals or canister.
4. Incorrect air filter element size.
5. Use of poorly designed aftermarket air filter elements.

Air cleaner servicing is an inexpensive maintenance check that can prevent costly non-warrantable premature engine damage.

Overservicing

Overservicing occurs when an air filter element is removed for cleaning or replacement before it is necessary. Each time the filter is removed a small amount of dirt and dust could fall in the intake system. This accumulated dirt can cause a dusted engine. It only takes a few grams of ingested dirt over the normal service life of an engine to cause a dusted engine.

Do not clean element, replace with a new element only. Cleaning used air filter elements, through improper cleaning procedures, can get dust on the inside of the filter causing dirt ingestion and engine failure.

It is important to note that whenever an air filter element is cleaned by **any method**, the person or company performing the cleaning assumes responsibility for the integrity of the filter from then on. **The Donaldson warranty for air filters expires upon cleaning or servicing in any manner because the condition of the filter after servicing is completely out of their control. Therefore, on a dust ingested engine failure, there will be no warranty consideration if the air filter element has been cleaned or serviced in any manner.**

A partially dirty air filter element works better than a new element. Therefore, a dirty filter element is not bad for the engine unless it is excessively restricting the air flow and engine performance is affected. The reason is simple. The media in the filter must be porous to allow air to pass through it. When dirty air passes through the filter, the dirt plugs some of the holes in the media and actually acts as part of the filter media. When the next round of dirt enters, the first dirt helps filter out even smaller particles making the filter more efficient at stopping dirt from entering the engine. This is referred to as barrier filtration.

Of course, at some point the filter media becomes too clogged to allow air to pass.

The mowing conditions will determine the frequency of air filter element changing.

Improper installation of an air filter element

Dust must not leak past the seals on each end of the air filter element. The filter must be aligned within the canister and properly seated for an effective seal so that no dirt can enter the engine.

Damaged filter, seals or canister

Never bang or bump the filter element against the tire or any solid object, as dust and dirt particles will be forced through the media causing continual passing of dirt into the engine. Visually inspect the outside of the air cleaner canister periodically for external damage and replace if necessary.

Incorrect air cleaner element

Use only the correct Donaldson air filter element, Hustler part number 785261, which is designed to fit the canister properly.

Hustler air filter elements have the correct media composition, filter area, micron size and dimensions. Always use genuine Hustler filters. Many aftermarket filters have been found to be incompatible with Hustler's canisters and engines.

The air filter must remain intact to block passage of dirt and foreign particles from entering the engine. Being inclined to disbelieve the need for more expensive air filter elements used on gasoline engines may cause some individuals to opt for a less expensive part.

The filter element must be sufficient size and construction to withstand stresses, caused by rapid cycling of the air volume demanded by the engine, without cracking or tearing under fatigue and pressure (especially diesel engines). Therefore, Hustler Turf Equipment and the engine manufacturers have carefully selected a reliable filter designed to fit the needs of the engines. The filter specified is a Donaldson filter, Hustler part number 785261.

Owners should be reminded that failure to use original equipment replacement parts is an "alteration" and will not be considered for warranty

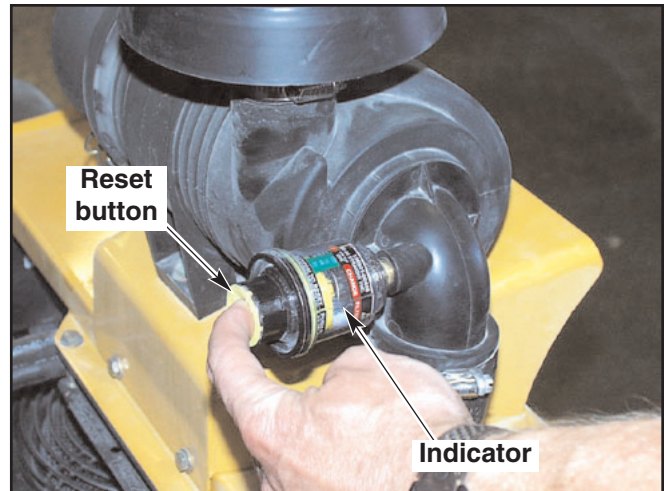


Figure 11-12

in the event of engine damage.

Recommended service procedure

1. Release clamps and remove element. Clean the canister with a damp cloth.
2. Before installing a new element, inspect it by placing a bright light inside and rotate the element slowly, looking for any holes or tears in the paper. Also check gaskets for cuts or tears. Do not attempt to use a damaged element which will allow abrasive particles to enter the engine.
3. Reinstall the dust cup. Make sure it seals all the way around the air cleaner body, then tighten the clamps.
4. Check all fittings and clamps periodically for tightness and inspect hoses for holes or cracks.
5. Periodically check the intake hose for signs of ingested dust. Locate and repair the source of ingested dirt.
6. Never operate a machine without an air filter installed.

Air restriction indicator

Any unit with a Kohler or Kawasaki engine will have an air restriction indicator installed in the air cleaner. Fig. 11-12

Replace the element whenever the restriction indicator shows reaches the change filter red line. Check the indicator daily and replace element as needed or annually whichever occurs first.

Reset the indicator by pushing in on the yellow button after each element change. Fig. 11-12

A restriction indicator takes the guesswork out of air cleaner servicing and allows you to safely benefit from the filter's optimum performance.

Cooling system

Applies to models 927558 & 927566 only

Engine cooling is accomplished with circulated water and Ethylene Glycol mixture. The radiator is equipped with a pressure cap and overflow reservoir. System capacity is approximately 2.9 U.S. quart (2.7 liter). Follow the information found in the engine owner's manual for the recommended coolant solution.

Visually inspect the system daily prior to operating tractor. Be sure the engine is level. Check the coolant level only when the system is cold. Check the coolant level only at the overflow reservoir (Fig. 11-13). The cooling system is a closed type. **Never open the radiator cap.** Doing so may induce air into the cooling system and may cause overheating. The coolant level should be between the "H" and "L" marks.

If the amount of coolant is insufficient, remove the cap from the reservoir and add coolant to the "L" mark. Install the cap.



DANGER: Never remove radiator cap or overflow reservoir cap when engine is hot. Pressurized hot steam and water may be released, causing serious burns or possible blindness.

The system should be drained, flushed and refilled with fresh solution

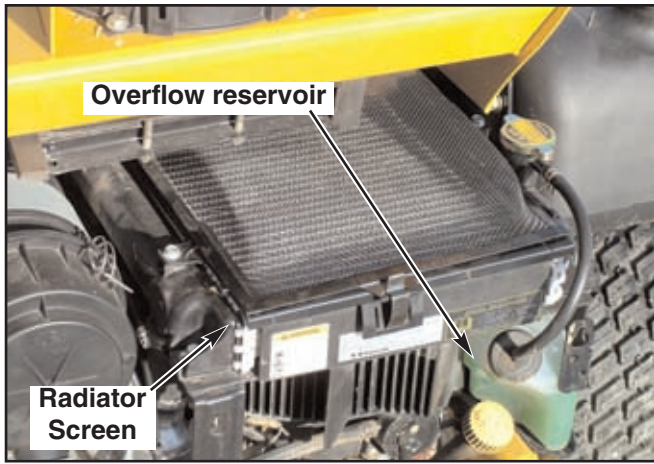


Figure 11-13

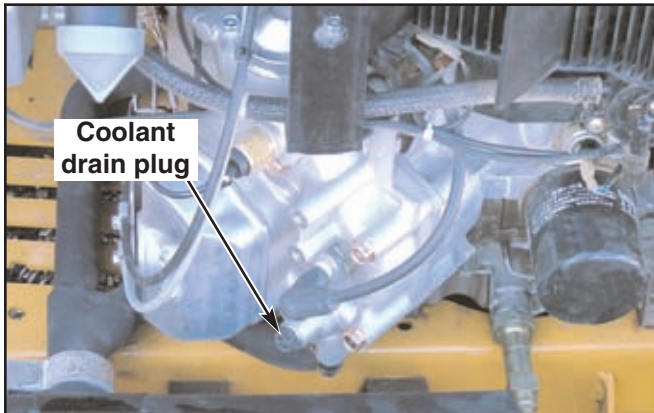


Figure 11-14

after every 500 hours of operation. To drain the radiator remove the overflow reservoir cap and remove the coolant drain plug. When draining the system use a flexible funnel to keep the coolant off the muffler. Fig. 11-14

If frequent refilling is necessary or if coolant appears rusty, thoroughly check the system. Refer to the engine manual for information on checking and cleaning system.

The engine cooling fan draws air through the engine cooling radiator. This is protected by a screen shroud. Keep the screen clean at all times and make sure trash is not allowed to accumulate on the radiator, nor allow the fins and cores to become plugged.

The radiator screen can be removed by disengaging the latch at the rear of screen and pulling the screen towards the rear of tractor. **IMPORTANT:** Take special care not to bend the screen mount.

Never force anything into the radiator fins which may bend or distort them. For cleaning, use compressed air or pressurized water only.

General engine maintenance

Detailed instructions and recommendations for break-in and regular maintenance are specified in the Engine Owner's manual. Please refer to this manual for engine servicing, lubricating oil levels with quality and viscosity recommendations, bolt torques, etc. The engine warranty is backed by the manufacturer. Special attention should be paid to applicable data which will not be duplicated here.

IMPORTANT: Refer to the Kohler EFI engine owner's manual for specific cleaning instructions.

Belt replacement

Figures 11-15, 11-16 and 11-17 show diagrams and descriptions of the unit's belt drive systems.

Inspect these belts frequently for wear and serviceability. Replace a belt that shows signs of severe cuts, tears, separation, weather checking and cracking, or burns caused by slipping. Slight raveling of belt covering does not indicate failure, trim ravelings with a sharp knife.

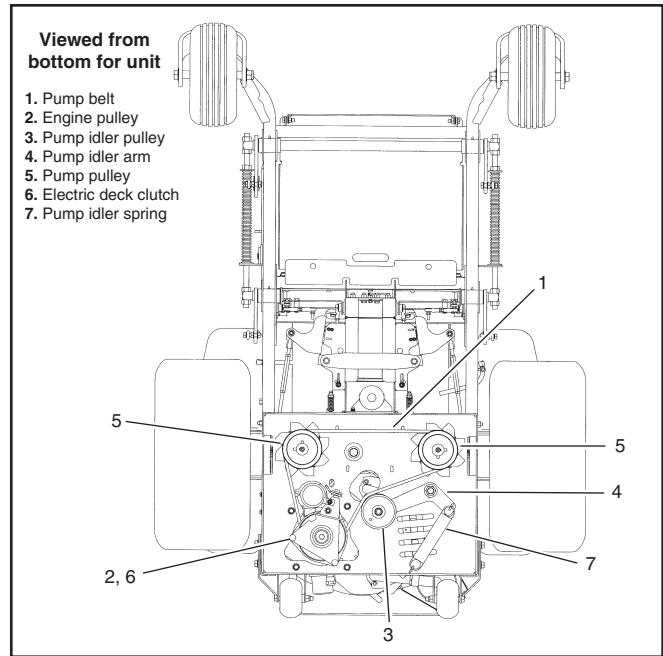


Figure 11-15

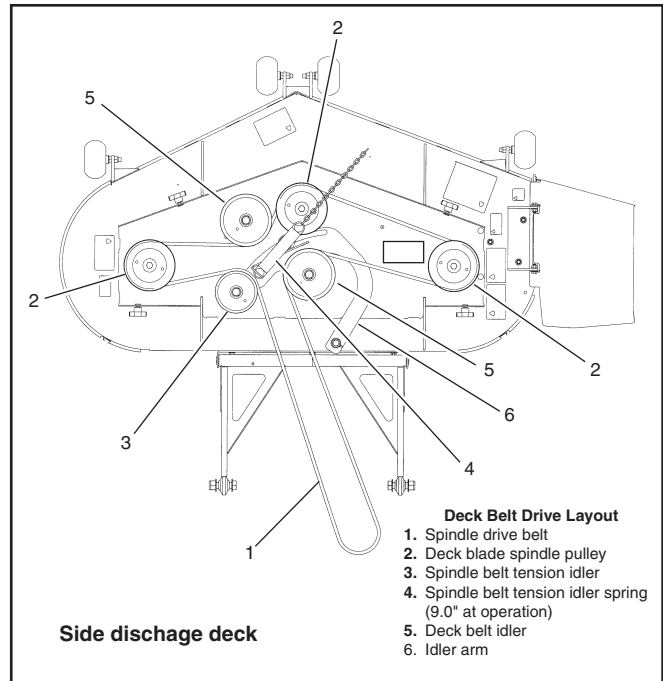


Figure 11-16



WARNING: If the pump belt fails, loss of control will occur especially when operating on a slope. **If you lose steering control while operating the machine, place the steering control levers in the park brake position immediately. Inspect the machine and involve your Hustler dealer to resolve the problem before continuing to operate.**

Inspect the belt pulley grooves and flanges for wear. A new belt, or one in good condition, should never run against the bottom of the groove. Replace the pulley when this is the case, otherwise belt will lose power and slip excessively.

Never pry a belt to get it on a pulley as this will cut or damage the fibers of the belt covering.

Keep oil and grease away from belts, and never use belt dressings. Any of these will destroy the belt composition in a very short time.

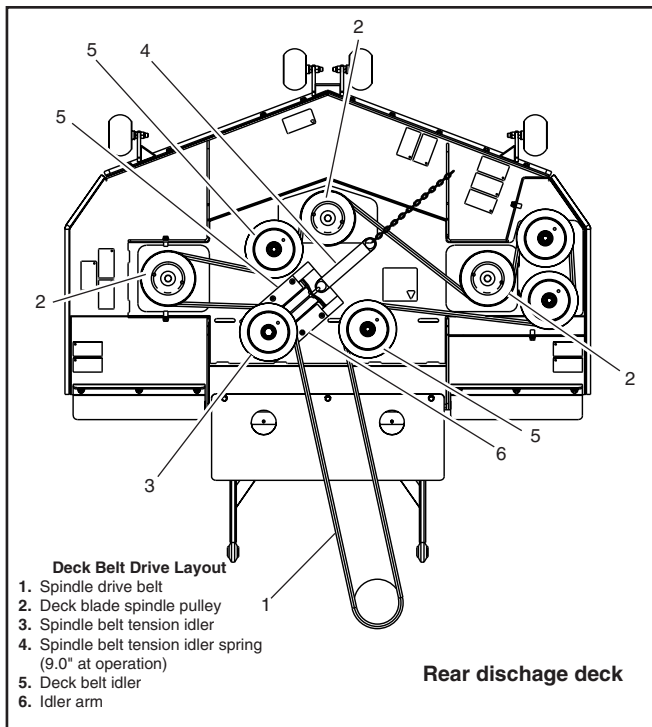


Figure 11-17

Mower blade maintenance

Check the mower blades daily, they are the key to power efficiency and well groomed turf. Keep them sharp, a dull blade will tear rather than cut the grass, leaving a brown ragged top on the grass within a few hours. A dull blade also requires more power from the engine.

Replace any blade which is bent, cracked or broken.



WARNING: Never attempt to straighten a bent blade by heating, or weld a cracked or broken blade as the blade may break and cause serious injury.



DANGER: Never work with blades while engine is running or deck clutch switch is engaged (on). Always place deck clutch switch in the **disengaged** position, place control levers in the park brake position and turn engine off and disconnect negative battery cable. Block up mower when you **must** work under it. Wear gloves when handling blades. **Always check for blade damage** if mower strikes rock, branch or other foreign object during mowing!



WARNING: Always wear adequate eye protection when grinding mower blades.

Mower blade removal

On spindles with blade saddles, use a 3/4" wrench to remove the 1/2" cap screw holding the blade to the spindle saddle from underneath. On spindles without blade saddles, use a 15/16" wrench to remove the 5/8" cap screw holding the blade to the spindle shaft from underneath. **NOTE:** On rear discharge decks the right blade rotates opposite of the other two blades. Therefore, it has a left hand threaded bolt. It will be necessary to loosen it by turning it clockwise.

Sharpen the blades on a grinder following pattern as shown (Fig. 11-18). Touch-up sharpening can be done with a file.

Check the blades for balance following grinding. A commercial balancing tool is available through most hardware supply stores, or balancing can be done by placing the blade on an inverted line punch or 1/2" bolt. Blade should not lean or tilt. Spin the blade slowly, blade should not wobble. If blade is out of balance, true it up before reinstalling.

Lay the blade on a flat surface and check for distortion (Fig. 11-19 and 11-20). Replace any distorted blade.

Do not re-use spindle bolts which have stripped, worn or undercut threads. Torque bolts on spindles with blade saddles to 65-75 foot-pounds

when reinstalling blades. Torque bolts on spindles without blade saddles to 118 foot-pounds when reinstalling blades.



WARNING: When mounting blades, rotate them after installation to ensure blade tips do not touch each other or sides of the mower.



WARNING: Failure to correctly torque the bolt may result in the loss of the blade which can cause serious injury.



WARNING: Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves and use extra caution when servicing them.

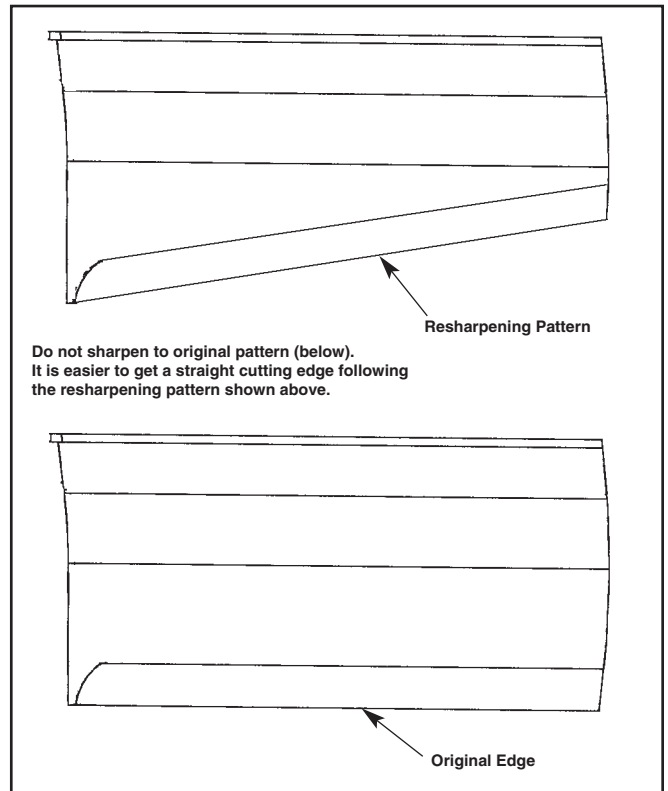


Figure 11-18

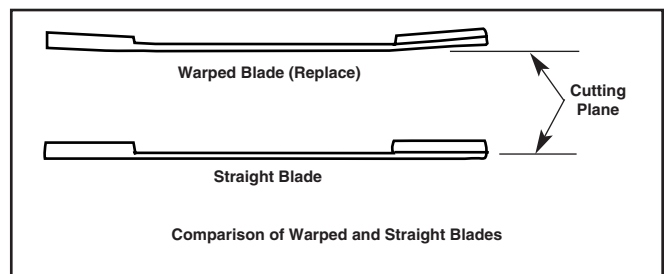


Figure 11-19

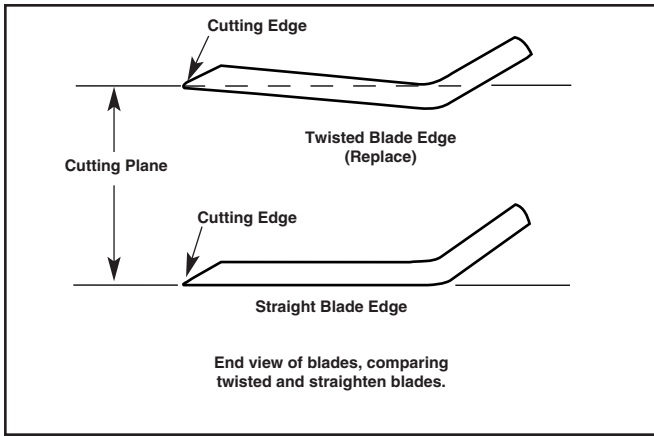


Figure 11-20

ADJUSTMENTS

Introduction

Your Super Z was adjusted before it left the factory and was checked during predelivery setup. However, after start-up and continued use, a certain amount of break-in wear will cause some adjustments to change.

Remain alert for unusual noises, they could be signaling a problem. Visually inspect the machine for any abnormal wear or damage. A good time to detect potential problems is while performing scheduled maintenance service. Correcting the problem as quickly as possible is the best insurance.

Clear away heavy build-up of grease, oil and dirt, especially in the area of reservoir and oil and engine combustion air; minute dust particle are abrasive to close-tolerance engine and hydraulic assemblies.

Some repairs require the assistance of a trained service mechanic and should not be attempted by unskilled personnel. Consult your Hustler service center when assistance is needed.

Steering linkage

The neutral adjustment for the control levers in the neutral position is discussed in this section.

The tractor steering has been factory adjusted to eliminate creeping when the control levers are in the neutral position (Fig. 11-21). However, should the tractor begin to creep, the control lever linkage can be adjusted as follows:

Control Lever Neutral Adjustment

Before considering any adjustment, check the tire air pressure and make certain hydraulic system oil is at operating temperature. Unequal tire pressure will cause the tractor to drift to one side. Refer to tire pressure information in the Maintenance section of this manual.

Fine adjustment to the unit's steering is made with the adjustable pump linkage rods located between the control lever and pump arms. Fig. 11-22

Neutral is properly adjusted when the control levers are in the neutral position and the drive wheels are not turning.

If the tractor creeps in the neutral position the control linkage may be adjusted as follows:

1. Raise and block the tractor up so the drive wheels are off of the floor.



WARNING: Never work under the machine or attachment unless it is safely supported with jack stands. Make certain machine is secure when it is raised and placed on the jack stands. The jack stands should not allow the machine to move when the engine is running and the drive wheels are rotating. **Use only certified jack stands.** Use only appropriate jack stands, with a minimum weight rating of 2000 pounds to block the unit up. Use in pairs only. Follow the instructions supplied with the vehicle stands.

2. Position the control lever in the neutral position. Disengage the deck clutch.
3. Start the engine and observe which way the wheels are rotating.
4. If wheel(s) are rotating forward, loosen the jam nuts on the pump linkage rods and rotate the rod to lengthen the steering control linkage until the wheel(s) come to a stop. Fig. 11-22

NOTE: The left linkage controls the left hydraulic pump and the right linkage controls the right hydraulic pump.

Repeat for the opposite side if necessary.

5. If wheel(s) are rotating in reverse then loosen the jam nuts on the pump linkage rods and rotate the rod to shorten the steering control linkage until the wheel(s) come to a stop. Fig. 11-22

NOTE: The left linkage controls the left hydraulic pump and the right linkage controls the right hydraulic pump.

Repeat for the opposite side if necessary.

6. When both wheels remain in neutral, tighten the jam nuts to lock the turnbuckle in place.
7. Test again by moving the control levers forward and backward before returning them to the neutral position. If the tires are in neutral, the unit is now ready for operation.

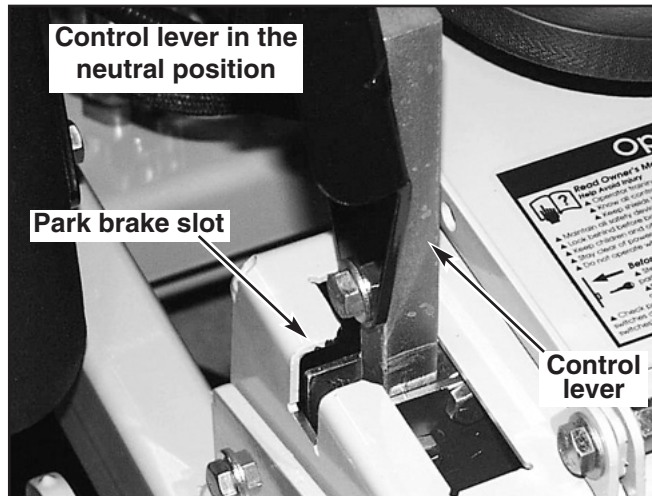


Figure 11-21

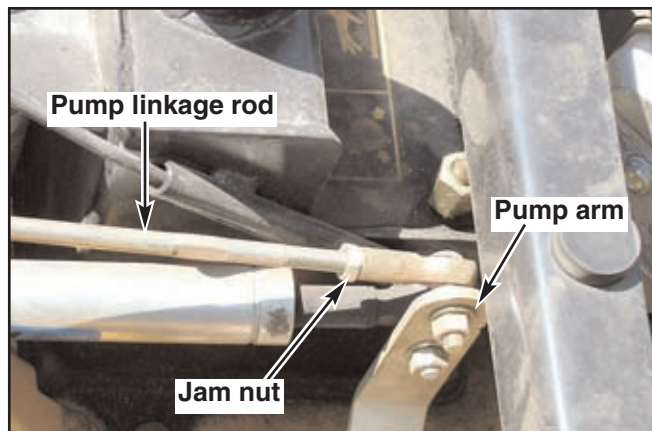


Figure 11-22

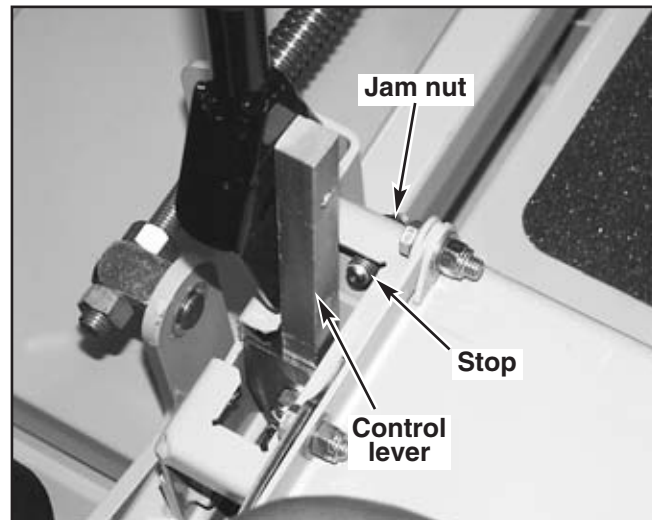


Figure 11-23

8. After adjusting for neutral it may be necessary to re-adjust the control lever stop. Fig. 11-23

Control lever stops

The control lever stops (Fig. 11-23) are designed to do two things: First, and most important, they must keep the pumps from bottoming out

internally. Secondly, the stops may be adjusted to help drive straight when the control levers are pushed forward against the stops.

To keep the pumps from bottoming out internally use the following procedure:

1. To make the first adjustment the tractor engine must NOT be running.
2. Check to make sure the control levers are against the stops before the pumps are bottomed out internally.
To do this, gently and slowly move the control levers forward and feel if there is some resistance on the pump lever before the control levers hit the stops. Check one side at a time. If you sense that the pump arms are stopping the forward motion of the control arms, loosen the jam nut on the adjustable stop of the corresponding side and turn the stop (set screw) inward to stop the control levers slightly before the pump bottoms out. Lock in place when the adjustment is correct by re-tightening the jam nut.
3. Do this for each side.

To adjust the stops for driving straight when control levers are against the stops during operation:

1. Determine which drive tire is rotating too fast when both control levers are against the stops. Then stop the tractor and loosen the lock nut on the side which is rotating too fast and turn the stop (set screw) inward to stop the control lever sooner. Tighten the lock nut on the stop and test again. Repeat this procedure until unit drives straight.

NOTE: Since this is a hydrostatic drive, variables such as temperature of oil, efficiency of pumps and motors, tire pressure etc. may effect the consistency of the ability to rely on the stops to drive straight without the operator making minor steering adjustments with the control arms.

Steering dampener

The steering dampener (Fig. 11-24) is spring loaded to return the control levers to the neutral position from the reverse position. This gives the operator a sense of neutral during operation.

To set the steering dampeners in the correct operating position follow these steps:

1. Place the control lever in the neutral position.
2. Loosen the steering dampener's front ball stud.
3. Pull the dampener spring housing pass the point that the internal spring is engaged.
4. Release the dampener spring housing and allow the internal spring to bring the housing back to the neutral position.
5. Tighten the nut on the steering dampener's front ball stud.

Control lever adjustment

The control levers can be adjusted for operator comfort. By loosening the cap screws that attaches the upper control lever to the lower lever (Fig. 11-25), the upper control lever can be pivoted to fit the operator's personal preference.

The control levers should be adjusted so that they align with each other when in the neutral position.

Park brake adjustment

Occasionally check the park brakes and adjustment using the following method:

1. Position the control levers in the neutral position. Disengage the deck clutch.



WARNING: Never work under the machine or attachment unless it is safely supported with jack stands. Make certain machine is secure when it is raised and placed on the jack stands. The jack stands should not allow the machine to move when the engine is running and the drive wheels are rotating. **Use only certified jack stands.** Use only appropriate jack stands, with a minimum weight rating of 2000 pounds to block the unit up. Use in pairs only. Follow the instructions supplied with the vehicle stands.

NOTE: The front brake link is not adjustable. Fig. 11-26

2. Raise and block the tractor up so the drive wheels are off of the floor.

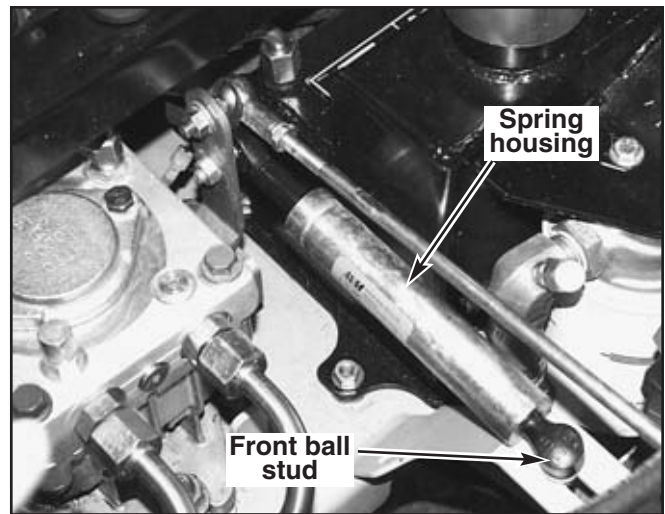


Figure 11-24

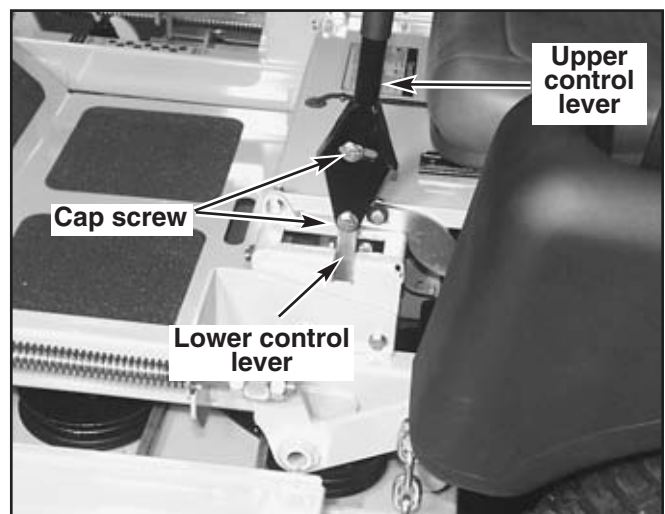


Figure 11-25

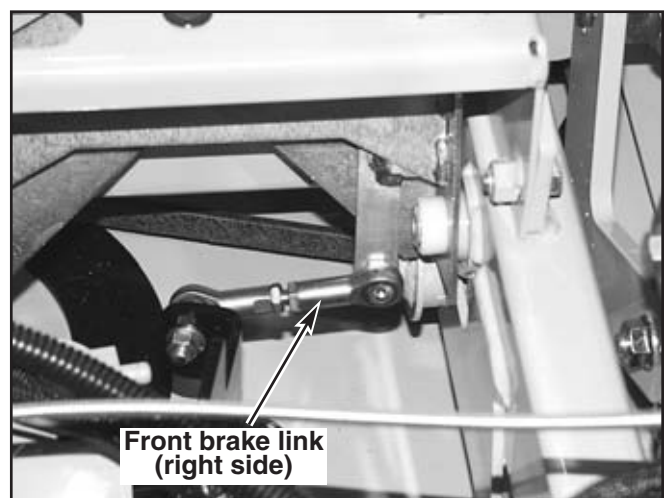


Figure 11-26

3. Open the hydraulic pump's bypass valve (Fig. 11-27), on the side that is being adjusted, by turning bypass valves counter clockwise one-half to one revolution. The valve stems on each hydraulic pump are located near the top and are identified as a hex stud.
4. Rotate the tire. The tire should rotate. Remember hydraulic oil resistance will prevent the tire from rotating freely even with the

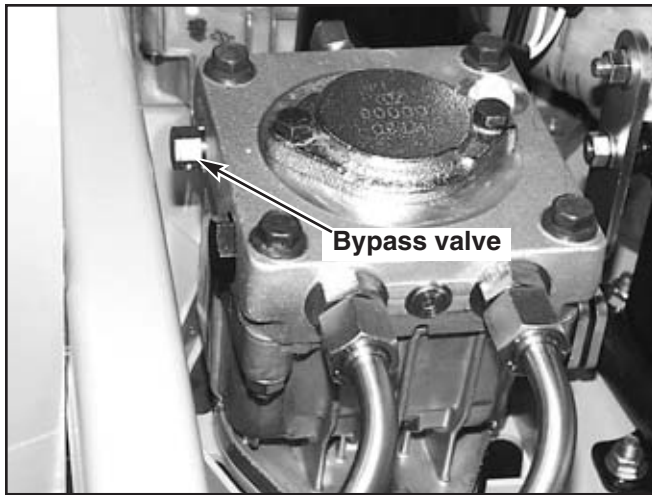


Figure 11-27

bypass valves open. There should be no resistance from the brakes at this point.

5. Move the control lever to where it is just inside (1/8") the park brake slot. Fig. 11-28
- NOTE:** When the control lever is against the outside edge of the slot, the brakes should **not** be engaged.
6. Rotate the tire. If the brake is adjusted properly the tire will still rotate but friction will start to become noticeable here. However, if no brake resistance is noticed, the brake needs adjusted as follows:
 7. Loosen the brake linkage jam nuts. Fig. 11-29
 8. Rotate the tire and at the same time rotate the turnbuckle to shorten the length of the brake linkage to increase the brake pressure. When you feel the brake begin to engage, stop adjusting the turnbuckle. Re-tighten the jam nuts on the turnbuckle.
 9. Place the control lever in the park brake slot (Fig. 11-28). The tire should not rotate when the control lever is in the park brake position.
 10. Place the control lever in the neutral position. The tire should rotate freely.
 11. Close the hydraulic pump's bypass valve.
 12. Repeat steps 3 thru 11 for the other side.
 13. Remove the jack stands and lower the unit. It is now ready to operate.

Hydraulic pump belt adjustment

The pump drive belt tension remains constant by means of a tension idler and spring (Fig. 11-30). There is no tension adjustment of this belt.

NOTE: Replace the belt every 400 hours or every two (2) years whichever comes first.



WARNING: If the pump belt fails, loss of control will occur especially when operating on a slope. **If you lose steering control while operating the machine, place the steering control levers in the park brake position immediately. Inspect the machine and involve your Hustler dealer to resolve the problem before continuing to operate.**

Deck drive belt adjustment

The spindle belt tension remains constant by means of a tension idler and spring (Fig. 11-31). The spring tension should be such that the belt does not slip under normal operating load conditions, assuming the belt is not excessively worn or damaged. As belt stretches and wears in, adjustment may become necessary. To increase belt tension, move the spring chain one (or more) link(s) at the anchor bracket (Fig. 11-31). Installed spring length should be 9.0" ± .3" (22.8 cm ± .76 cm) originally with adjustments of .60" (15.2mm) per chain link. (Fig. 11-32)

IMPORTANT: Do not over tension the spring to compensate for a badly worn belt or pulley.

Engine RPM setting

The Super Z is designed so that the engine will run at 3600 rpm static pump load only. At this speed the hydraulic pumps are running at their

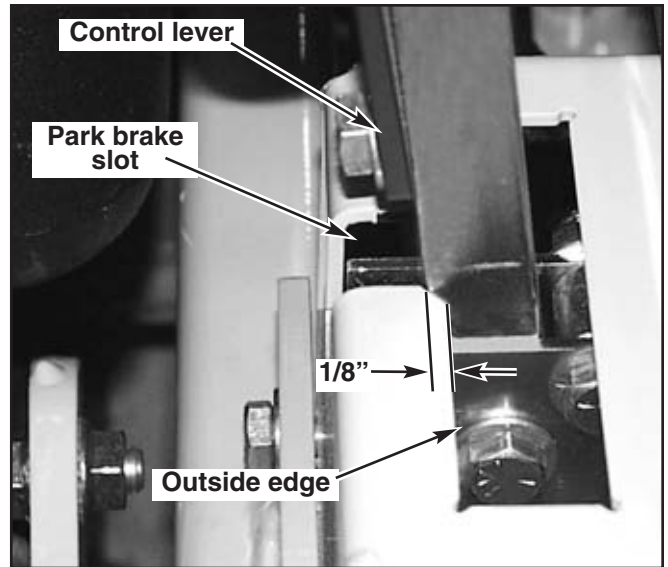


Figure 11-28

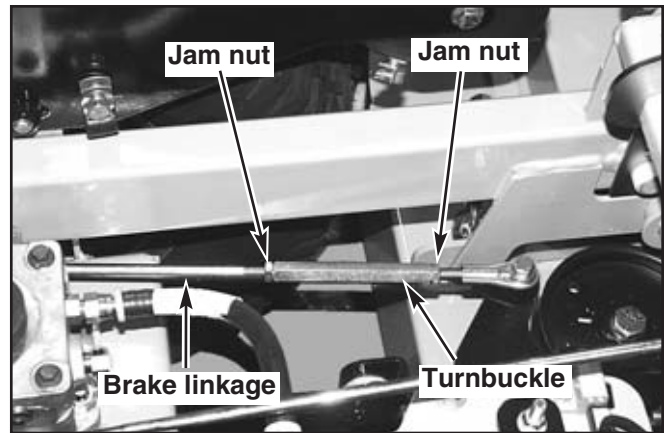


Figure 11-29

maximum rated speed.

Deck leveling and height adjustment

The mower deck has three areas that may need to be checked and adjusted periodically. Before considering any mower deck leveling adjustments, check that the tire air pressure is within the specified range.

Deck level adjustments

Leveling the deck must be done in the following manner and order:

1. Check tire pressures to make certain they are properly inflated before starting to level deck. The recommended pressures are as follows:
 Drive wheels tire pressure 8 - 10 psi
 Gauge wheels tire pressure 8 - 10 psi



WARNING: Stop engine. Make sure deck clutch switch is **in the down (OFF) position**. Place control levers in the brake position before leaving machine.

2. Park the unit on a flat surface.
3. Raise deck and place 3" of blocking under all 4 corners of the deck (Fig. 5-15). This will set the cutting height at 3 1/4". **NOTE:** Back of deck will automatically be set 1/4" higher. **NOTE:** When blocking up the rear discharge decks make certain the blocks are not in the discharge opening.
4. Set cutting height at 3 1/4" in the height indicator by placing the height adjusting stop in the 3" hole, and turning the height stop so that the flat side is against the stop handle. Fig. 11-34
5. Clamp the height adjusting stop against the stop handle (Fig. 11-34). This will assure that the height will not move during the setting

process. Otherwise, spring pressure from the deck lift springs will tend to pull the stop away from the handle.

6. Loosen all nuts on the deck lift threaded rods, and the hardware on the adjuster (on the right front), until **all** the deck lift chains are loose, **and** the deck is sitting tightly on all four blocks. Fig. 11-35, 11-36, 11-37
7. Loosen the two nuts on the front of height indicator so that the foot pedal is free. Fig. 11-38
8. Start the leveling process on the **left front** of the tractor.
9. Set the amount of threads protruding on the deck lift rod from the lift block at approximately 1". Fig. 11-39
10. Jam both nuts against the block.
11. Push or pull on the deck lift foot pedal until the chain on the left front just becomes tight, making sure that the deck stays tight against the 3" block.
12. While keeping the chain tight, tighten the nuts against the deck lift block on the height indicator rod. Fig. 11-38
13. Go to the **right front** of the tractor.
14. Loosen the 5/16" jam nut on the adjuster lift chain (Fig. 11-37), and back the adjuster bolt out to allow the adjuster to move up and down freely.

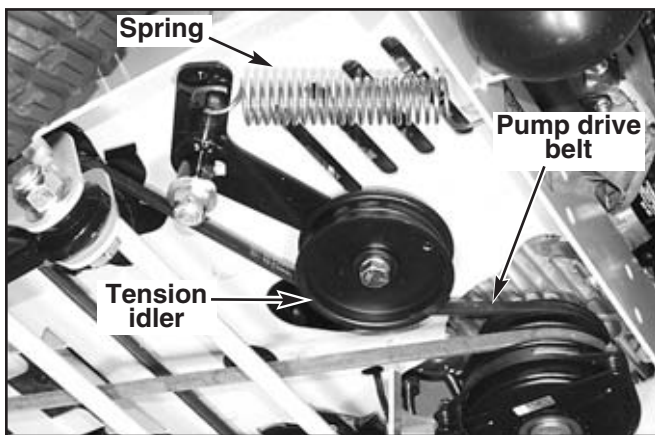


Figure 11-30

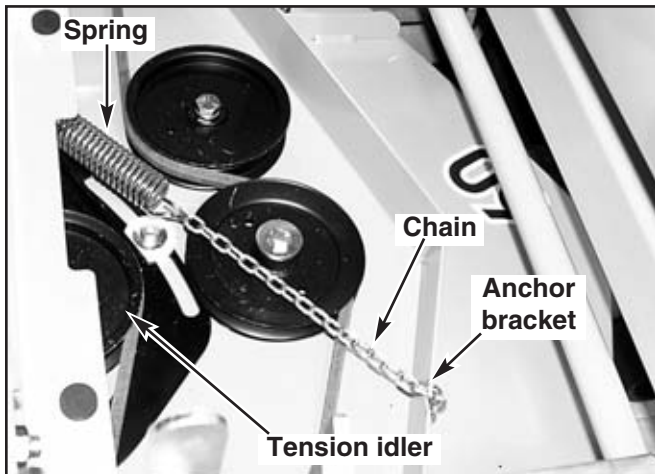


Figure 11-31

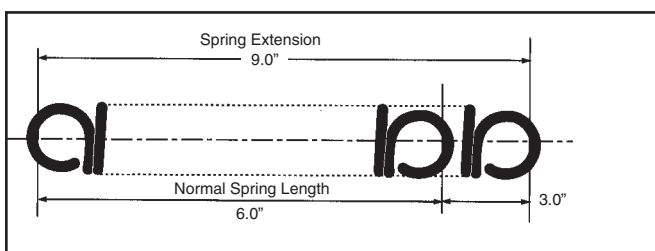


Figure 11-32

15. Be sure that adjuster is free to move up and down.
16. Tighten the adjuster bolt until the chain just becomes tight, making sure that the deck stays tight against the 3" block.
17. Tighten the adjuster bolt jam nut to prevent the adjuster bolt from moving. Fig. 11-37
18. Tighten the hardware holding the chain and adjuster onto the deck lift arm.
19. Go to the **right rear** of the tractor.
20. Make sure that there is still slack in the chain. If not, loosen the two nuts on the block holding the threaded rod until there is slack in the deck lift chain. Fig. 11-36
21. Tighten the appropriate nut until the chain just becomes tight, making sure that the deck stays tight against the 3" block.
22. Tighten the other nut on the opposite side of the block, and jam them tightly together against the block.
23. Go to the **left rear** of the tractor.
24. Make sure that there is still slack in the chain. If not, loosen the two nuts on the block holding the threaded rod until there is slack in the deck lift chain. Fig. 11-35
25. Tighten the appropriate nut until the chain just becomes tight.
26. Tighten the other nut on the opposite side of the block, and jam them tightly together against the block.
27. Compress the deck lift assist springs so that there is 1" of space between the front nut and on the spring and the rear nut on the deck lift block (Fig. 11-39). Typical both sides.
28. When completed, all chains will be tight, and deck cutting height will be set to the deck height indicator.

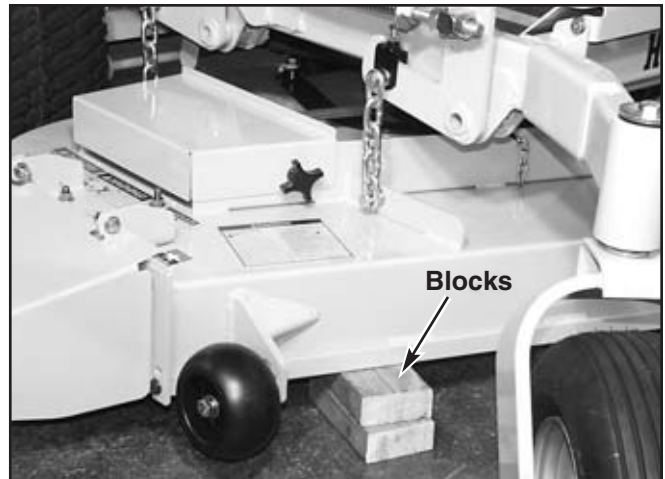


Figure 11-33

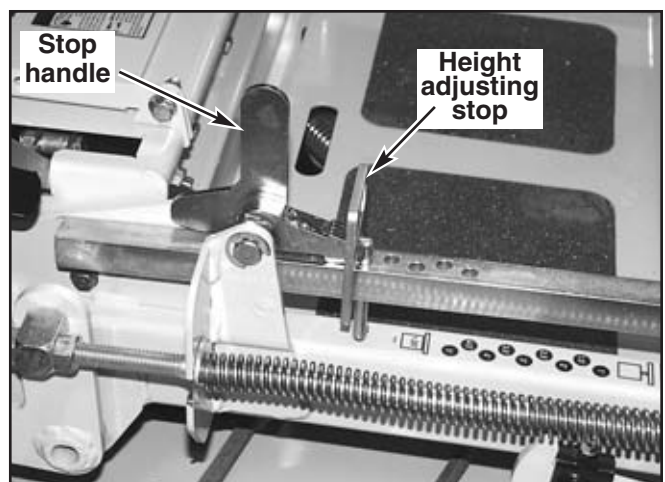


Figure 11-34

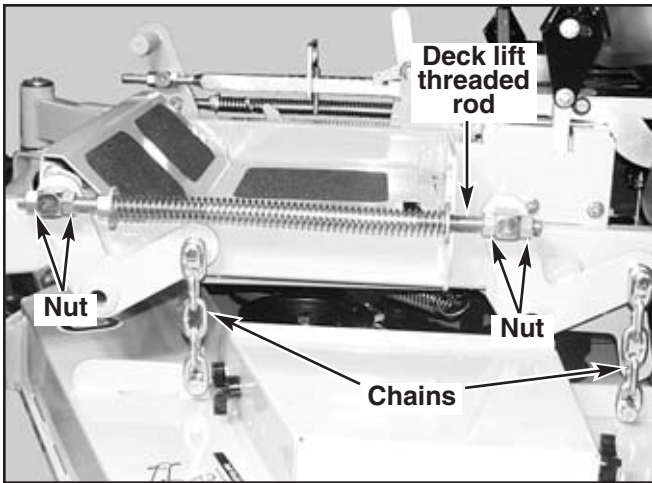


Figure 11-35

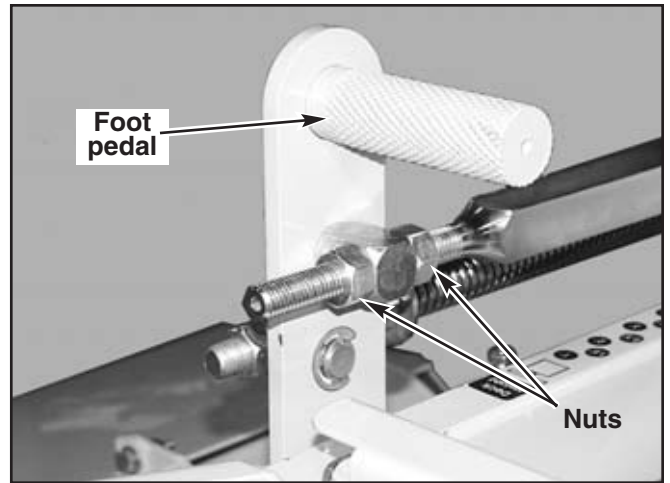


Figure 11-38

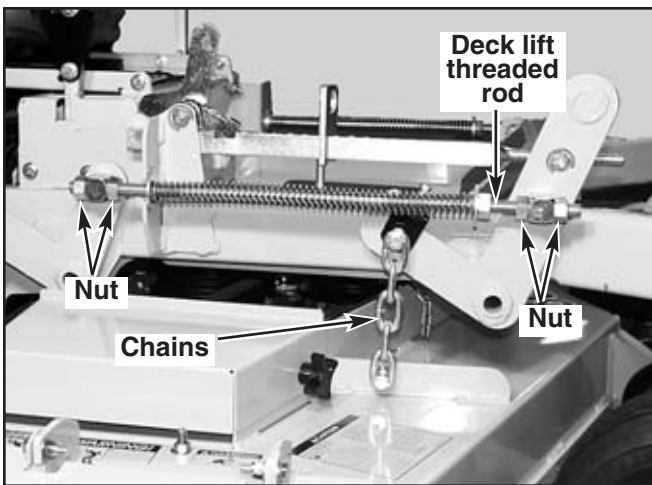


Figure 11-36

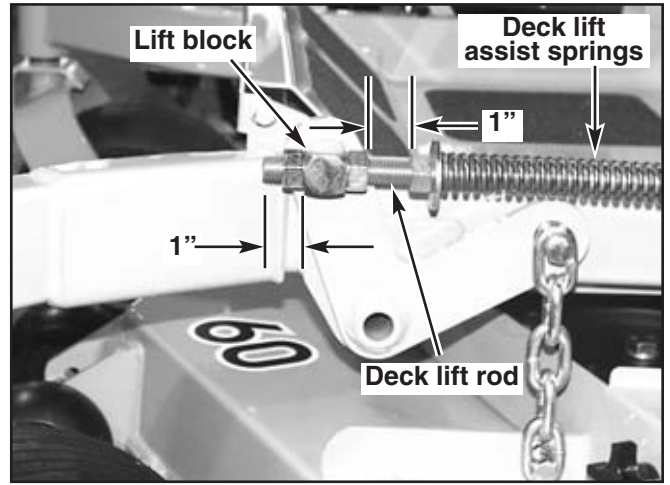


Figure 11-39

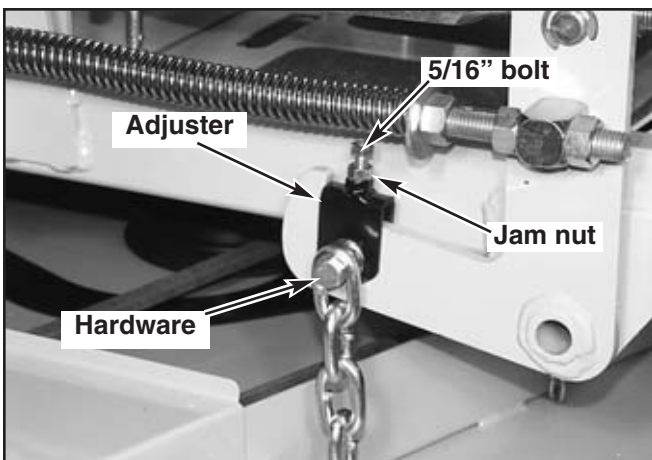


Figure 11-37

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