

# ***Hustler Z XR7 Parts Manual***



**HUSTLER®**



*Hustler Turf Equipment*



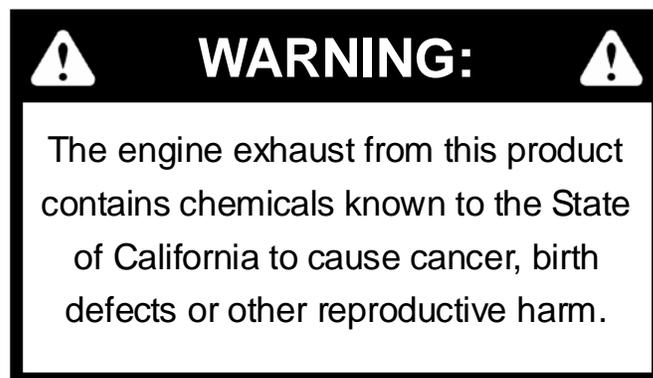
*P.O. Box 7000*



*Hesston, Kansas*



*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 XR7 Z models **927723, 927731, 927749, 927756, 927772, 927798, 927806, 927814** with serial numbers prior to 07020000.

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## Frequently Ordered Parts

<b>PART NO.</b>	<b>DESCRIPTION</b>
027912	Lubrizol 7 oz. Bottle
027920	Lubrizol 10 oz. Bottle
768341	Hydraulic Oil Filter
781443	Pump Drive Belt
797696	Blade, F18.50"-H-F-CW (54" Deck)
794685	Blade, F20.50"-H-F-CW (60" Deck)
798496	Blade, F22.50"-H-F-CW (66" Deck)
797928	Belt, B-Section (54" Deck)
797720	Belt, B-Section (60" Deck)
797936	Belt, B-Section (66" Deck)
068478	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

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## Service Literature

<b>PART NO.</b>	<b>DESCRIPTION</b>
600876	Owner's Manual
785642	Honda 18/20/24 Engine Owner's Manual
778423	Kawasaki 19–25 hp Engine Owner's Manual
742684	Kohler Engine Owner's Manual

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*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.

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## 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.

<b>ABBREVIATION</b>	<b>DESCRIPTION</b>
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
OD	Outside Diameter
ID	Inside Diameter

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## **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.

<b>SIZE</b>	<b>FT-LBS</b>	<b>NM</b>	<b>SIZE</b>	<b>FT-LBS</b>	<b>NM</b>
.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	M14	80	108.5
.875	420	565	M16	160	215
1.00	625	850	M20	320	435
			M24	555	750

**NOTE:**

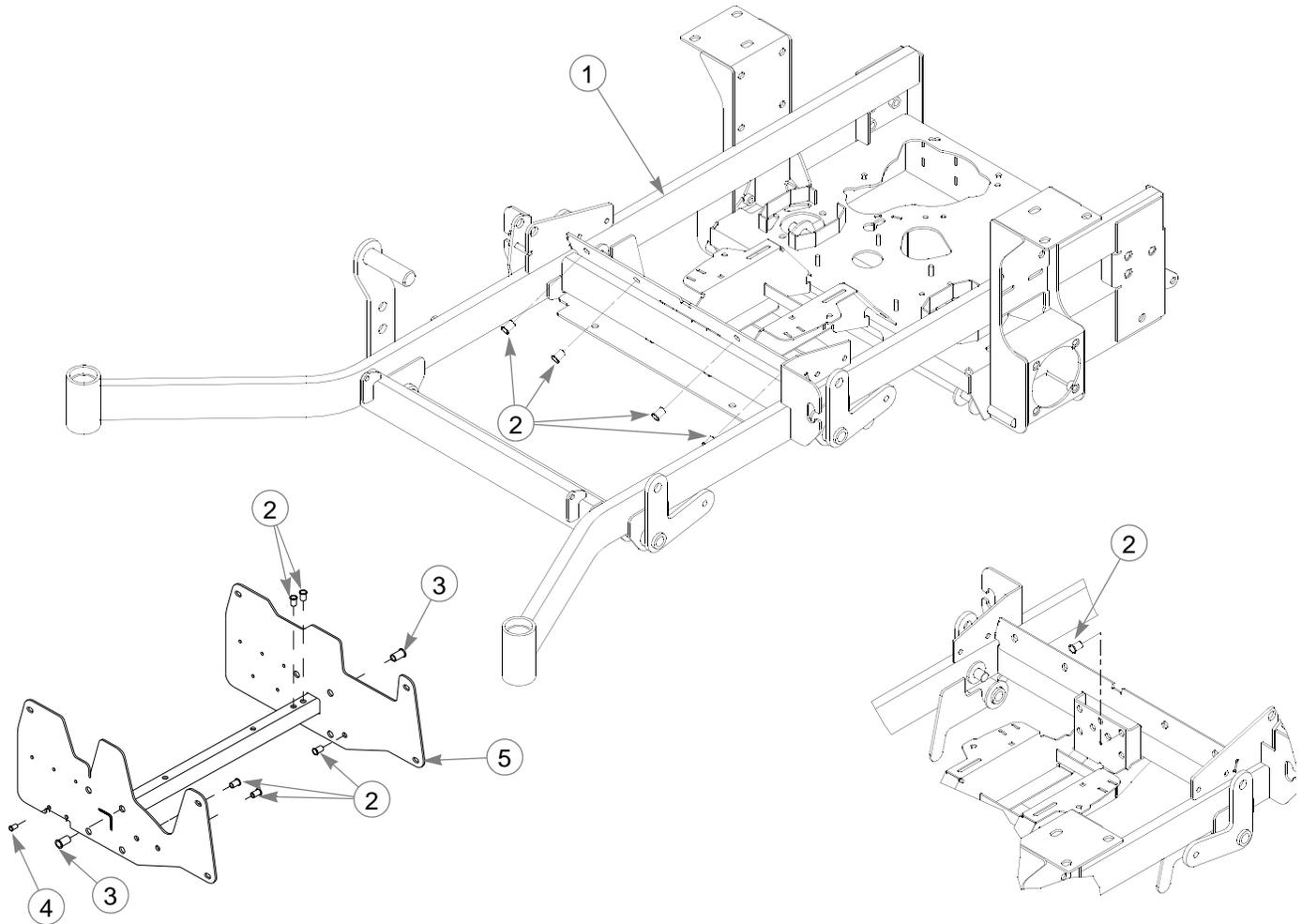
Loctite® 592 to be used on all pipe threads.  
Lubricate all grease zerks.

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## Chapter 2 Contents

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# Rivet Nut Installation

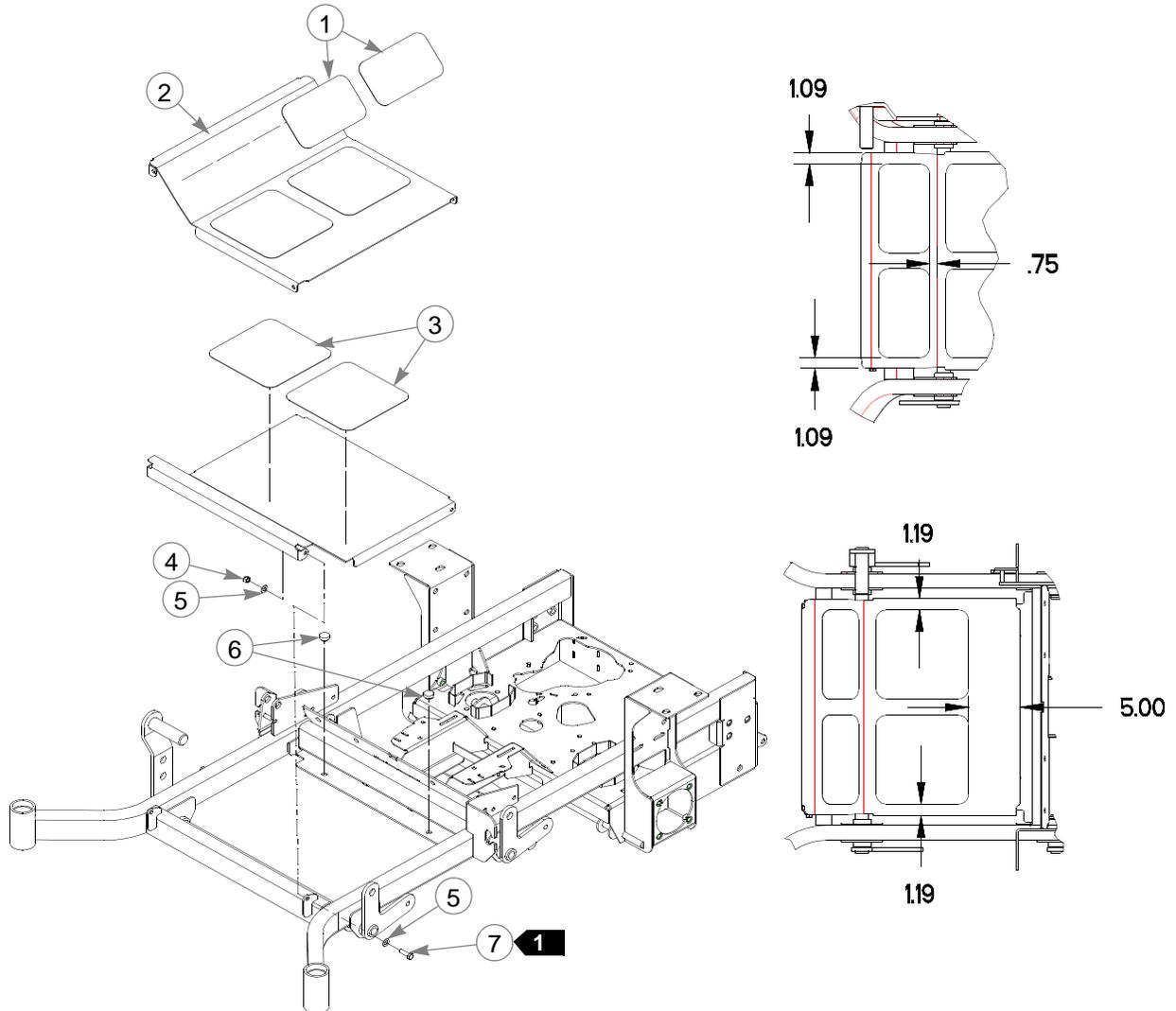


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	548032	107701	1	TRACTOR FRAME (54")
	547760	106211	1	TRACTOR FRAME (60")
	547752	106039	1	TRACTOR FRAME (66")
2	N/A	808493	15	3/8-16 THREAD RIVET NUT
3	N/A	600961	8	1/2-13 THREAD RIVET NUT
4	N/A	808477	2	1/4-20 THREAD RIVET NUT (KAW ONLY)
<b>1</b> 5	547950	106732	1	XR7 MMZ SEAT SUPPORT

## NOTES:

1. Seat support 547950 includes rivet nuts.

# Footrest Assembly



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	359547	359547	2	STEP TREAD
2	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 .406 X .812 X .060 SAE HD ZN
6	781880	781880	2	RUBBER BUMPER
7	052860	052860	2	CS .375-16 X 1.250 HX G5 ZN

### NOTES:

1. Do not tighten, Item 2 (348276 Floor) must be able to pivot on these bolts.

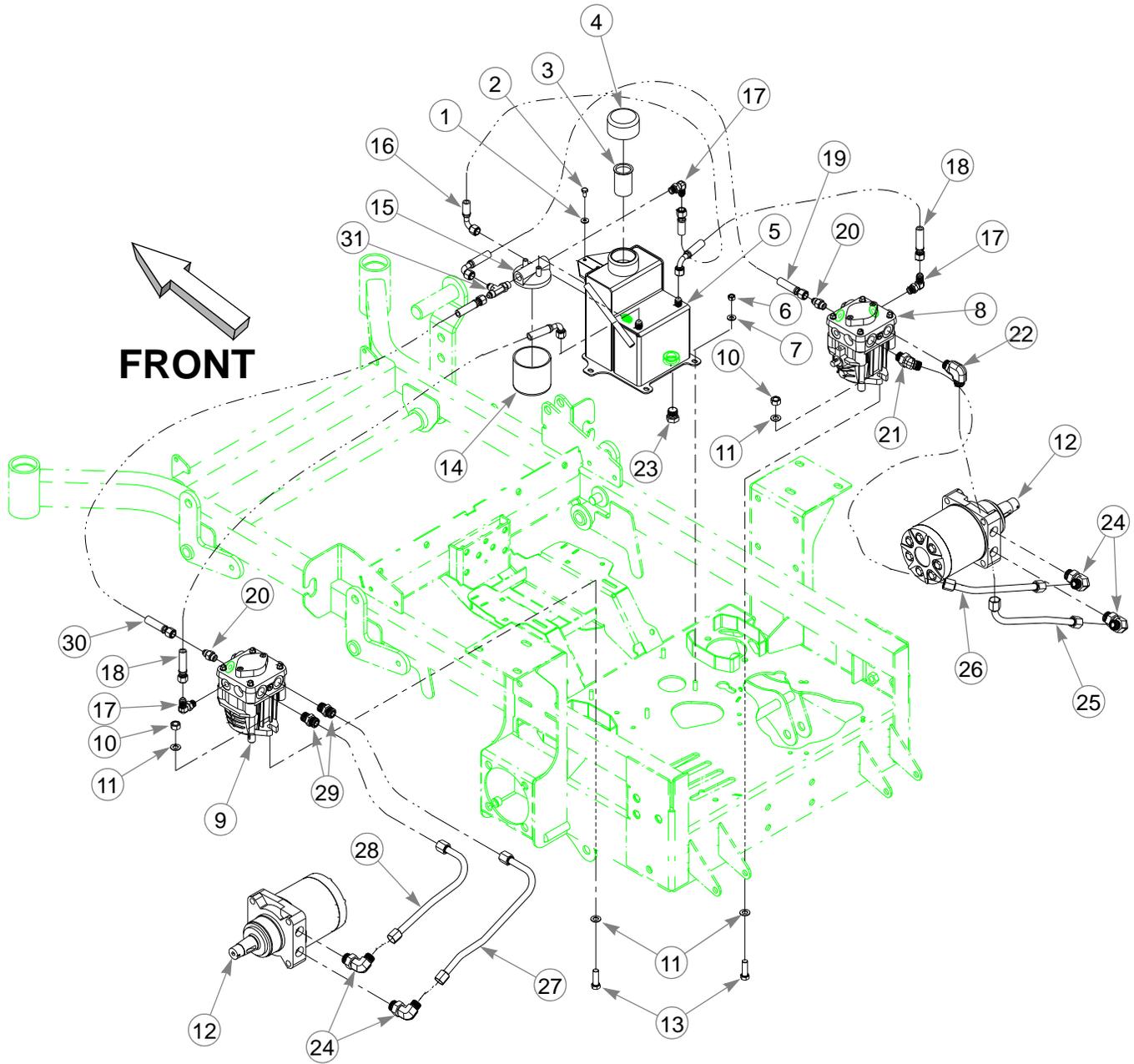


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## Chapter 3 Contents

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# Hydraulic System Installation



# Hydraulic System Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	768515	768515	2	FW .281 X .625 X .051/.080 HD ZN/YL
2	055947	055947	2	CS .250-20 X .500 HX G5 ZN
3	032771	032771	1	STRAINER
4	032763	032763	1	BREATHER CAP
5	349860	349860	1	RESERVOIR
6	034272	034272	4	NT .312-18 HX G5 ZN
7	768523	768523	4	FW .343 X .687 X .051/.080 HD ZN/YL
8	781062	781062	1	HYDRO-GEAR PUMP, BDP-10A-300
9	781047	781047	1	HYDRO-GEAR PUMP BDP-10A-400
10	041707	041707	4	NT .437-14 HX G5 ZN
11	704742	704742	8	FW .453 X .812 X .060 ZN
12	781054	781054	2	ROSS/PARKER WHEEL MOTOR, MB-15
13	705186	705186	4	CS .437-14 X 1.375 HX G5 ZN
14	768341	768341	1	FILTER ELEMENT
15	768333	768333	1	FILTER HEAD
16	781575	N/A	1	-6STR -6 90°, PUSHLOC HOSE 4.75"
17	763946	N/A	3	90°, -6 O-RING/-6 JIC FITTING
18	778985	N/A	2	-6STR -6 90°, PUSHLOC HOSE, 13.00"
19	781591	N/A	1	-6STR -6 90°, PUSHLOC HOSE, 15.00"
20	779132	N/A	2	STR-6MORB/-6JIC FITTING
21	781559	N/A	1	45°, -8MORB/-8MSL FITTING
22	781542	N/A	1	90°, -8MORB/-8MSL FITTING
23	781658	N/A	1	STR-8-MORB/HEX PLUG
24	781526	N/A	4	90°, -10MORB/-8MSL FITTING
25	781500	N/A	1	RIGHT LOOP/RP-BM HYDRO TUBE
26	781492	N/A	1	RIGHT LOOP/LP-TM HYDRO TUBE
27	781484	N/A	1	LEFT LOOP/RP-BM HYDRO TUBE
28	781476	N/A	1	LEFT LOOP/LP-TM HYDRO TUBE
29	781534	N/A	2	STR-8MORB/-8MSL FITTING
30	781518	N/A	1	-6STR -6STR PUSHLOC HOSE, 9.00"
31	763953	N/A	1	-6 O-RING/-6JIC/6JIC T FITTING
	N/A	781469	1	MMZ HYDRAULIC KIT (INCLUDES 16-31)

## NOTES:

1. Add 3.5 oz. Lubrizol® (027912) 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 3 (032771 Strainer)

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## 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:**

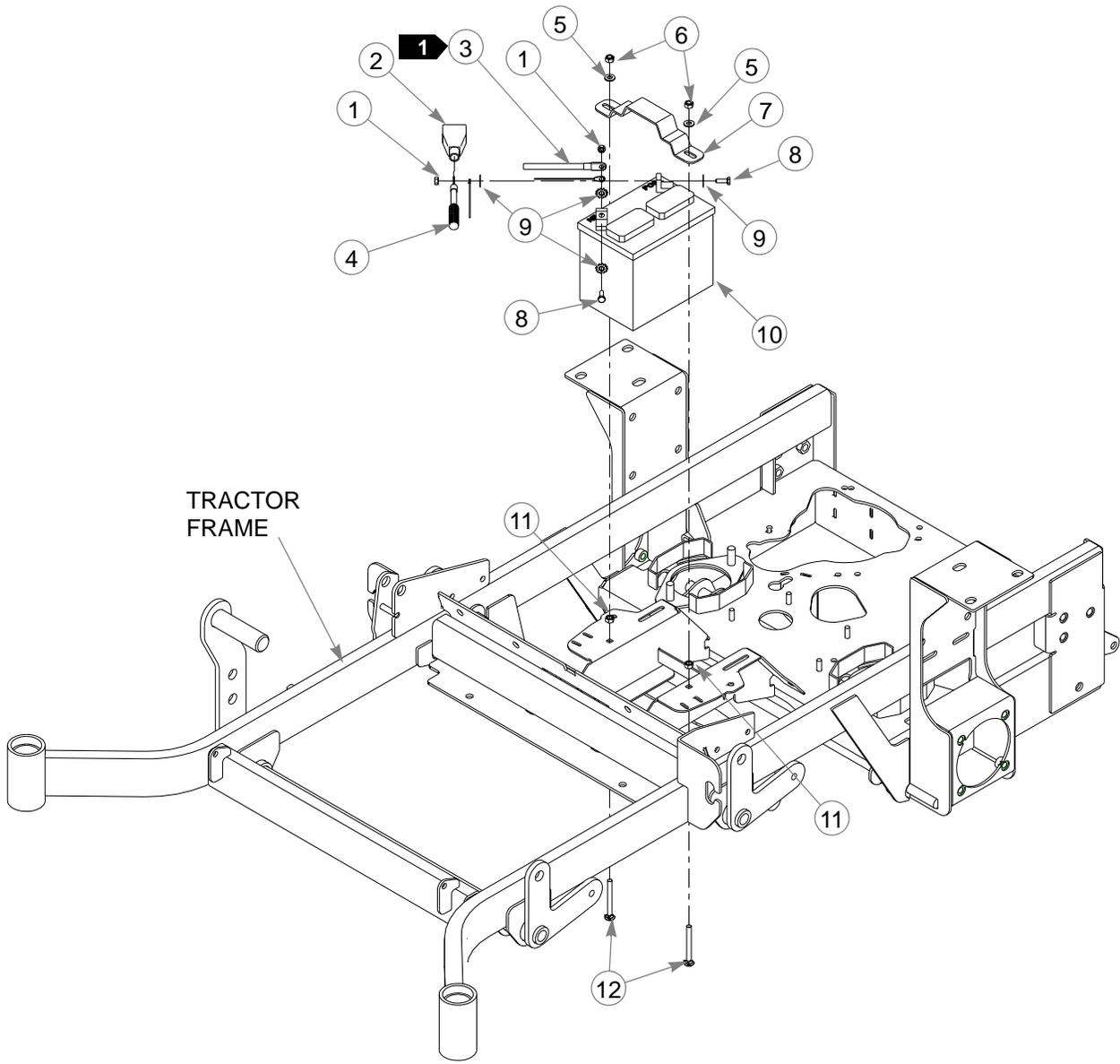
Seal Kit for hydraulic pump; 727756 (BDP10 Overhaul Seal Kit)

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# Battery Installation



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## **Battery Installation**

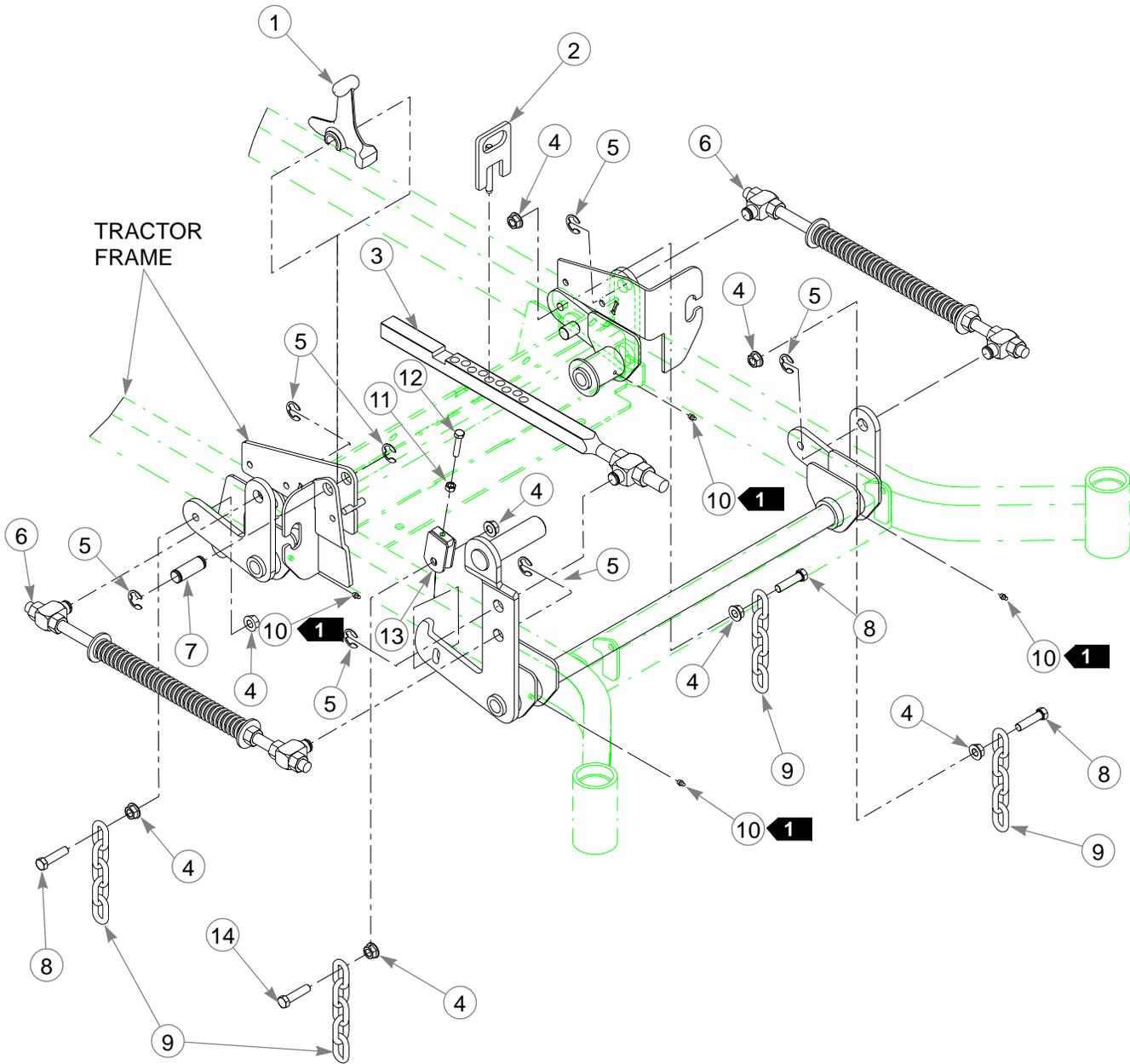
INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	024927	024927	2	NT .250-20 HX GR.5 ZN
2	771428	771428	1	RED BATTERY CABLE BOOT
3	796219	796219	1	36" NEGATIVE BATTERY CABLE
4	744276	744276	1	POSITIVE BATTERY CABLE
5	768523	768523	3	FW .343 X .687 X .051/.080 HD ZN/YL
6	058776	058776	2	NT .312-18 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	779850	779850	2	CB .312-18 X 3.00 FUL ZN

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### **NOTES:**

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

# Deck Lift Assembly



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## Deck Lift Assembly

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	348318	348318	1	STOP HANDLE
2	600437	600437	1	DECK HEIGHT 1/2" PIN W/A
	348284	N/A	1	HEIGHT ADJUSTMENT STOP 3/8"
3	783001	783001	1	DECK LIFT INDICATOR SUBASSEMBLY
4	704643	704643	8	NT .437-14 HX FLG ZN
5	781294	781294	7	CLIP E, 1.00 X .625 X .050
6	782995	782995	2	DECK LIFT SPRING SUBASSEMBLY
7	781229	781229	1	CE .750 X 2.25 X 1.75 HEADLESS
8	055749	055749	3	CS .437-14 X 1.750 HX G5 ZN
9	348391	018846	4	DECK LIFT CHAIN
10	015495	015495	4	STRAIGHT GREASE FITTING
11	034272	034272	1	NT .312-18 HX G5 ZN
12	756270	756270	1	CS .312-18 X 1.50 FUL THR GR5 ZN
13	348458	348458	1	DECK LEVELER YOKE
14	781831	781831	1	CS .437-14 X 1.750 FUL THD G5 ZN

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### NOTES:

1. Apply grease to zerks (see owner's manual).
2. Verify pin diameter prior to ordering replacement part. For mowers with 3/8" diameter pins, order 348284; for mowers with 1/2" pins, order 600437. Item 3 includes 600437 (1/2" pin).



# Steering and Park Brake Assembly

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	781260	N/A	2	STEERING BAR GRIP
2	348755	348755	2	STEERING BAR
3	767954	767954	48	FW .406 X .812 X .060 SAE HD ZN
4	036244	036244	10	CS .375-16 X 1.000 HX G5 ZN
5	705178	705178	6	CS .375-16 X 1.750 HX G5 ZN
6	041152	041152	8	NT .312-24 HX ZN
7	768523	768523	18	FW .343X .687 X .051/.080 HD ZN/YL
8	348946	348946	2	STEERING ARM MOUNT
9	348888	348888	1	STEERLEVER SUPPORT LH
	348714	348714	1	STEERLEVER SUPPORT RH
10	055822	055822	8	CS .375-16 X .750 HX G5 ZN
11	781716	781716	4	SS .500-13 X 1.75 SH ZN
12	053199	053199	2	NT .500-13 HX JAM ZN
13	348987	348987	1	STEERING CONTROL PANEL
14	348862	348862	4	STEERLEVER BUSHING
15	086660	086660	8	NT .375-16 HX LK NY
16	781583	781583	2	BRAKE ROD ASSEMBLY
17	063198	063198	4	CS 10-24 X .750 HXFLK ZN
18	781211	781211	2	PUSH BUTTON SWITCH
19	781286	781286	2	PUMP ROD ADJUSTER ASSEMBLY
20	600221	600221	2	CENTERING DAMPER
<b>6</b>	783696	783696	2	CENTERING DAMPER
21	781922	781922	4	DAMPER BALL STUD
22	704163	704163	2	CS .250-20 X 2.00 HX G5 ZN
23	768515	768515	4	FW .281 X .625 X .051/.080 HD ZN/YL
24	068551	068551	2	NT .250-20 HX NL ZN
25	367557	367557	2	PUMP ARM
26	348797	348797	2	ADJUSTABLE PIVOT
27	781153	781153	4	BUSHING
28	005116	005116	4	CS .375-16 X 1.375 HX G5 ZN
29	054502	054502	4	NT .375-16 HX GRD 5 ZN
30	034272	034272	8	NT .312-18 HX G5 ZN
31	781765	781765	2	BRAKE DRUM-HUB ASSEMBLY
<b>3</b>	781112	781112	1	BRAKE ASSEMBLY
<b>4</b>	781351	781351	1	BRAKE ASSEMBLY
33	036236	036236	4	CS .312-18 X 1.000 HX G5 ZN
34	350272	350272	2	BRAKE ARM EXTENSION
35	350330	350330	1	L.S. BRAKE PIVOT ARM
	350264	350264	1	R.S. BRAKE PIVOT ARM
36	765339	765339	4	BUSHING
37	059832	059832	4	NT #10-24 HX NL ZN
38	782979	782979	2	CS .375-16 X 4.75 HX G5 ZN
39	065516	N/A	2	ROSS CASTLE NUT
40	350397	350397	2	BRAKE LINK TURNBUCKLE
41	064337	N/A	2	ROSS KEY

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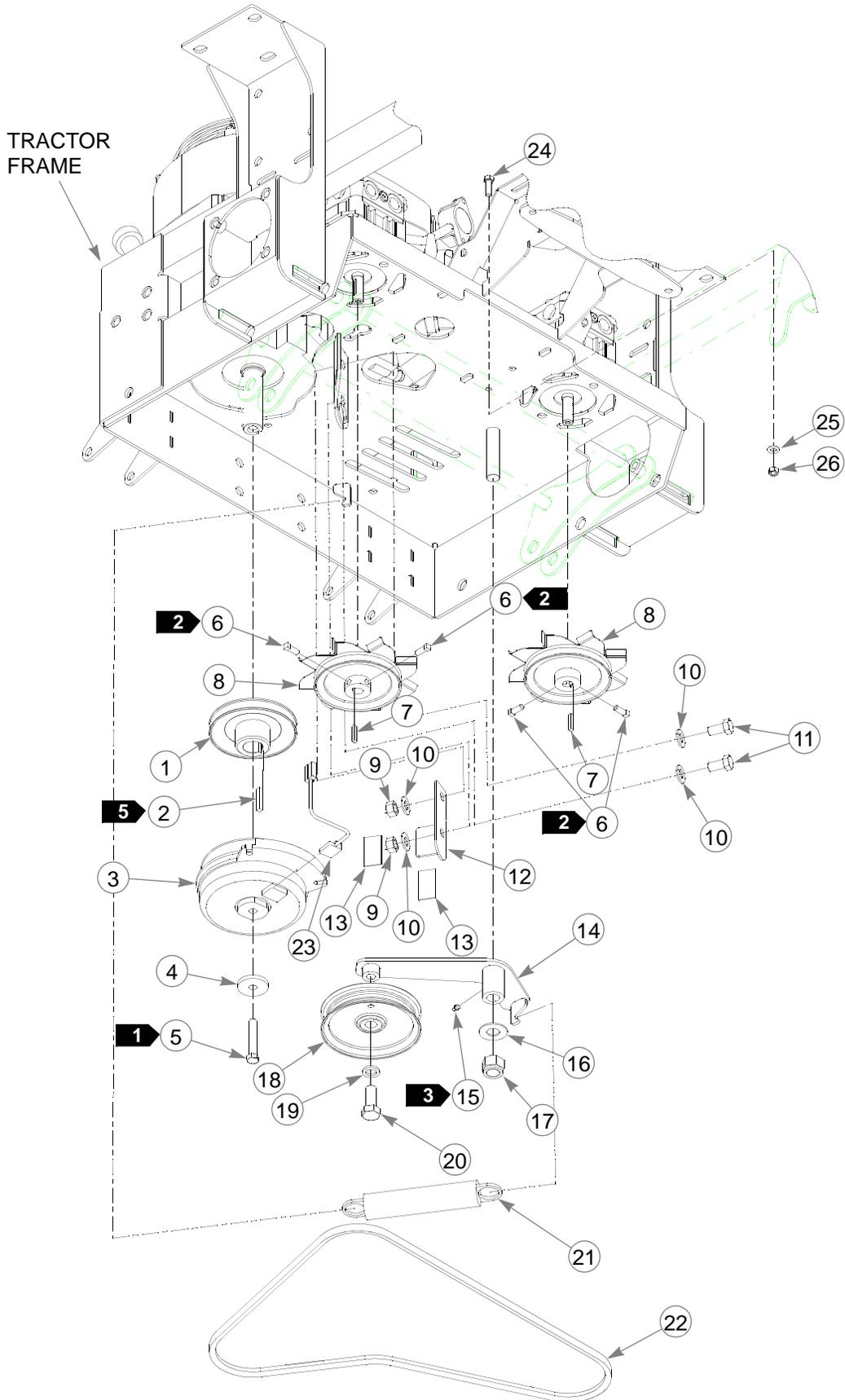
**NOTES:**

1. Torque to 350-375 ft.-lbs. Included with wheel motor.
2. Torque brake assembly mounting bolts to 100 ft.-lbs.
3. 781112 used on left wheel.
4. 781351 used on right wheel.
5. Includes Item 1 (781260 Steering Bar Grip).
6. Use 783696 on mowers with serial numbers prior to 06071499.

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# Pump Belt and Pulleys Installation



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## **Pump Belt and Pulleys Installation**

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	779876	779876	1	ENGINE SC SINGLE 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
5	785659	785659	1	CS .437-20 X 2.50 HX G5 ZNYC
6	083196	083196	4	SS .312-18 X .750 SQ-HD ZN
7	768127	768127	2	KEY 5MM X 30MM RADIUS ENDS
8	325308	325308	2	PULLEY & FAN
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
23	791251	791251	1	HARNESS, CLUTCH PIGTAIL(DIODE)
24	036236	036236	1	CS .312-18X1.000 HX G5 ZNYC
25	768523	768523	1	FW .343 X .687 X .051/.080 HD ZNYC
26	034272	034272	1	NT .312-18 HX G5 ZNYC

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### NOTES:

1. Torque to 45-48 ft-lbs.
2. Torque to 12-15 ft-lbs.
3. Apply grease at zerk (see owner's manual).
4. Included with Honda 24 HP engine (785014).
5. **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.

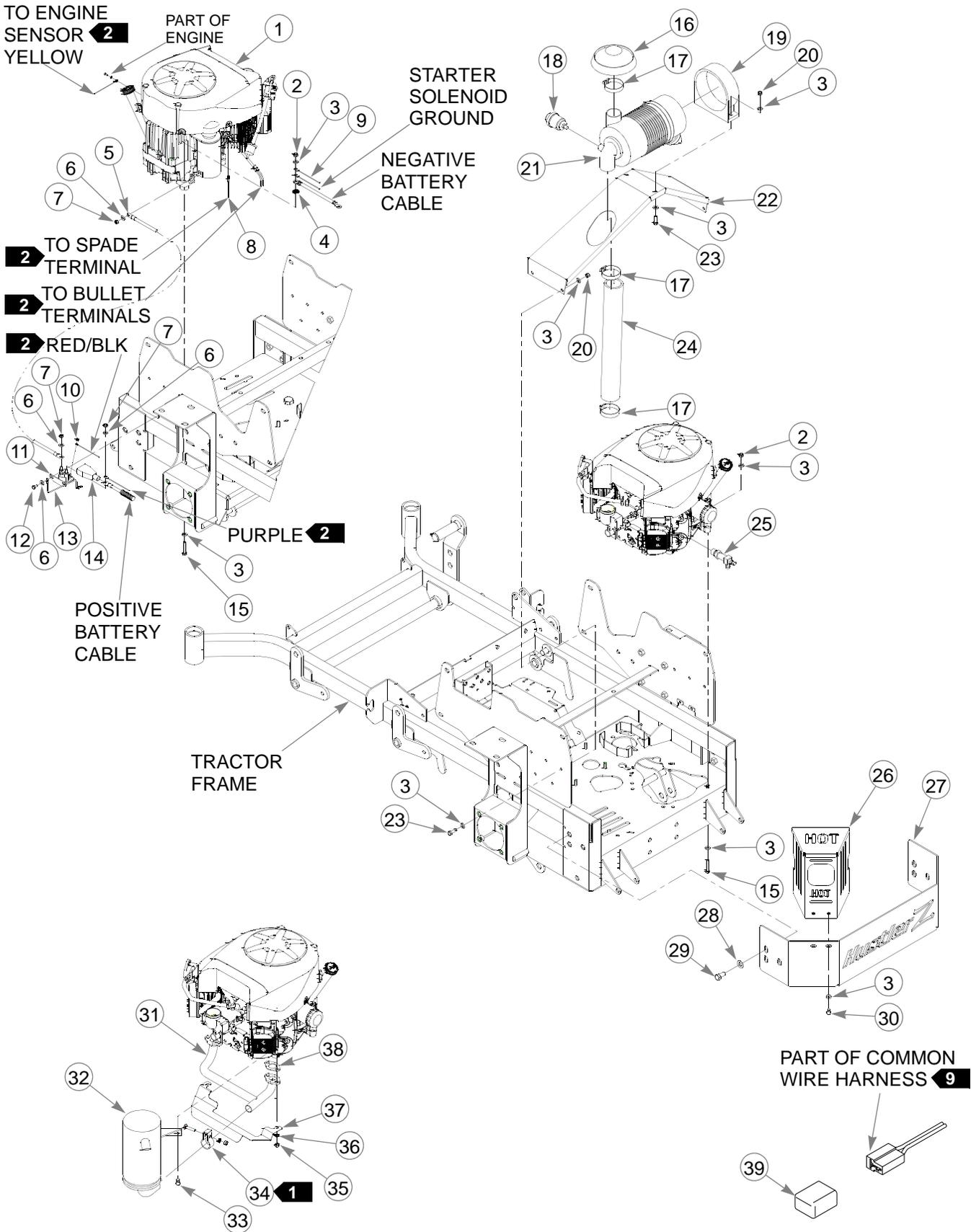


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# Kawasaki Engine Installation



# Kawasaki Engine Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION	
<b>5</b>	1	777656	777656	1	KAWASAKI 23 HP ENGINE
<b>6</b>		782318	782318	1	KAWASAKI 25 HP ENGINE (FH721V, 3600 RMP)
	2	058776	058776	4	NT .312-18 HXZY NL
	3	768523	768523	22	FW .343 X .687 X .051/.080 HD ZN/YL
	4	029876	029876	1	LW .312 INT-EXT TOOTH ZN
	5	792762	792762	1	BATTERY CABLE
	6	768515	768515	5	FW .281 X .625 X .051/.080 HD ZN/YL
	7	024927	024927	3	NT .250-20 HX GR.5 ZN
	8	799312	799312	1	WIRE HARNESS ADAPTER
	9	799320	799320	1	COMMON WIRE HARNESS
	10	044255	044255	1	NT #10-32 HX ZN
	11	030817	030817	1	STARTER SOLENOID
	12	055947	055947	2	CS .250-20 X .500 HX G5 ZN
	13	792192	792192	1	STARTER RELAY GROUND WIRE
	14	771428	771428	1	RED BATTERY CABLE BOOT
	15	050161	050161	4	CS .312-18 X 1.75 HX G5
<b>7</b>	16	786673	786673	1	DONALDSON AIR CLEANER CAP
	17	057661	057661	3	HOSE CLAMP
	18	788943	788943	1	AIR FILTER INDICATOR
	19	785741	785741	1	MOUNTING BAND
	20	034272	034272	6	NT .312-18 HX G5 ZN
	21	782763	782763	1	AIR CLEANER
	22	366443	366443	1	REMOTE AIR CLEAN MOUNT BRACKET
	23	036236	036236	6	CS .312-18 X 1.00 HX G5 ZNYC
	24	786038	786038	1	REMOTE AIR FILTER HOSE
	25	796524	796524	1	OIL DRAIN M20 X 2.5 VALVE
	26	350371	350371	1	MUFFLER GUARD
	27	349704	349704	1	ENGINE CAGE MOUNT PLATE
	28	767962	767962	6	FW .531 X 1.063 X .090 SAE HD ZN
	29	016527	016527	6	CS .500-13 X 1.00 HX G5 ZN
	30	064006	064006	2	CS .312-18 X .625 HX G5 ZN
	31	781732	781732	1	MUFFLER MANIFOLD
	32	781724	781724	1	MUFFLER
	33	720177	720177	2	CS M 8-1.25 X 20 10.9 HXFL ZN
	34	782649	782649	1	KAW (23) EXHAUST PIPE CLAMP
	35	782664	782664	4	NT M8-1.25 HX STAINLESS STEEL
	36	017004	017004	4	LW .312 MED SPRING ZN
	37	360693	360693	1	HEAT SHIELD
	38	780841	780841	2	KAW (23) MUFFLER GASKET
	39	789131	789131	1	HUSTLER Z FAN CONNECTOR CAP

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**NOTES:**

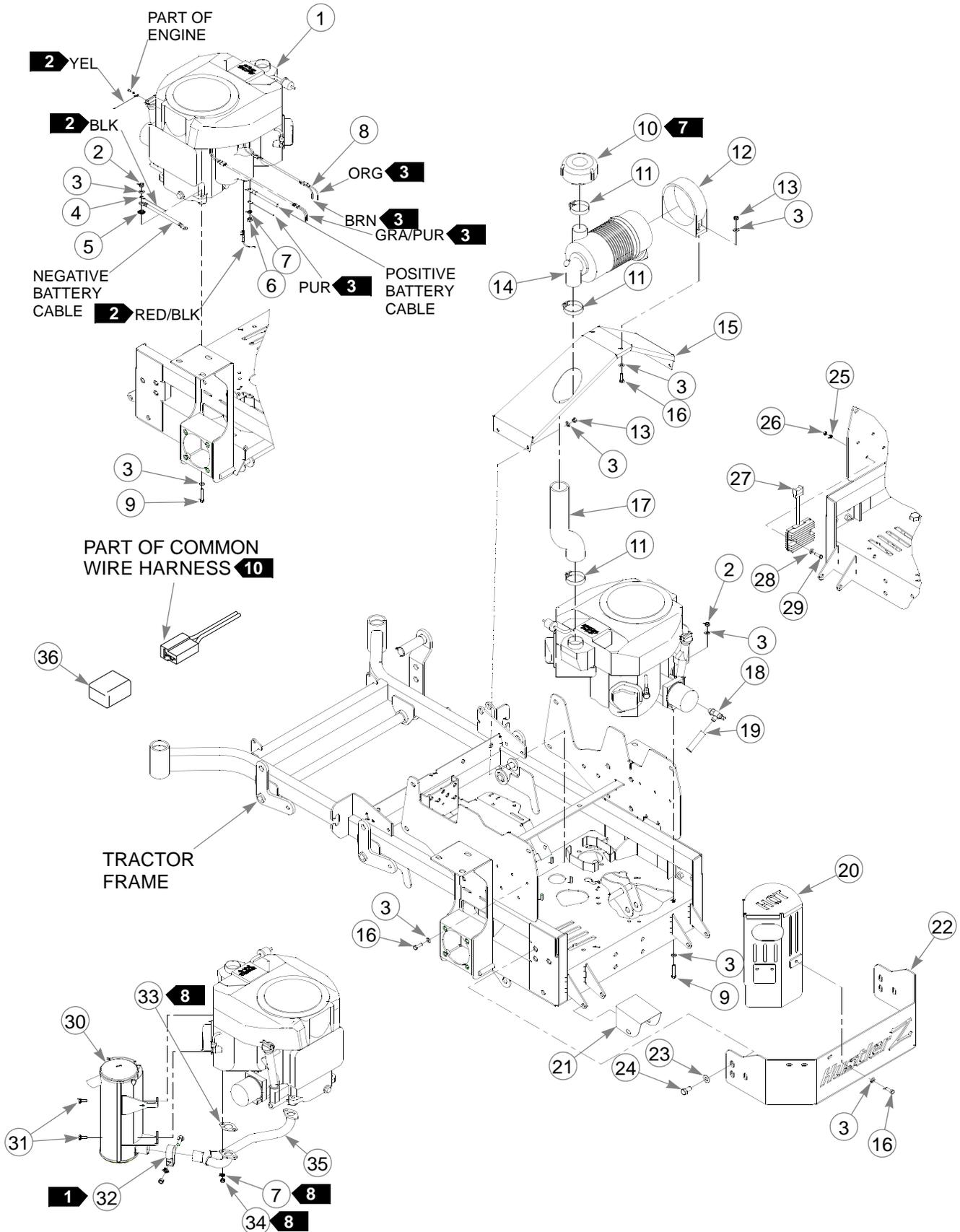
1. Includes mounting hardware.
2. Part of Item 8 (799312 Wire Harness Adapter).
3. Engine oil capacity; 2 US quarts (w/filter).
4. Engine RPM to be set at  $3600 \pm 50$ .
5. 23 HP engine used in 927723 and 927731 only.
6. 25 HP engine used in 927772 and 927798 only.
7. Includes one (1) of Item 17 (057661 Hose Clamp).
8. When installing lower hose clamp on air cleaner hose, install as low as possible (against carburetor inlet).
9. This connector used for optional hydraulic oil cooler fan.
10. Air filter service parts:

785261	MAIN AIR FILTER ELEMENT
763318	VACUATOR VALVE

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# Honda Engine Installation



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# **Honda Engine Installation**

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION	
<b>6</b>	1	785014	785014	1	HONDA 24HP ENGINE
	2	058776	058776	4	NT .312-18 HXZY NL
	3	768523	768523	23	FW .343 X .687 X .051/.080 HD ZN/YL
	4	799320	799320	1	COMMON WIRE HARNESS
	5	029876	029876	1	LW .312 INT-EXT TOOTH ZN
	6	077545	N/A	1	NT M8-1.25 X 10 HX ZNYC
	7	017004	N/A	5	LW .312 MED SPRING ZN
	8	799304	799304	1	WIRE HARNESS ADAPTER
	9	050161	050161	4	CS .312-18 X 1.75 HX G5
	10	775353	775353	1	DONALDSON AIR CLEANER CAP
	11	057661	057661	3	HOSE CLAMP
	12	785741	785741	1	MOUNTING BAND
	13	034272	034272	6	NT .312-18 HX G5 ZN
	14	782763	782763	1	AIR CLEANER
	15	366443	366443	1	REMOTE AIR CLEANER MOUNT BRACKET
	16	036236	036236	9	CS .312-18 X 1. HX G5 ZNYC
	17	785675	785675	1	REMOTE AIR FILTER HOSE
	18	787689	787689	1	HONDA OIL DRAIN VALVE
	19	787713	787713	1	0.50" LOW PRESSURE HOSE, 3.00" LONG
	20	382168	382168	1	MUFFLER GUARD
	21	377994	377994	1	MMZ ROLLER HEAT SHIELD
	22	365742	365742	1	ENGINE CAGE MOUNT PLATE
	23	767962	767962	6	FW .531 X 1.063 X .090 SAE HD ZN
	24	016527	016527	6	CS .500-13 X 1.00 HX G5 ZNYC
	25	017038	017038	2	LW .250 MED SPRING ZNYC
	26	024927	024927	2	NT .250-20 HX GR.5 ZNYC
	27	785477	N/A	1	HONDA 20 AMP RECTIFIER
	28	768515	768515	2	FW .281 X .625 X .051/.080HD ZNYC
	29	056077	056077	2	CS .250-20 X 1.00 HX G5 ZNYC
	30	784843	784843	1	MUFFLER
	31	720177	720177	2	CS M 8-1.25 X 20 10.9 HXFL ZN
	32	785378	785378	1	1.50" MUFFLER CLAMP
	33	785543	N/A	2	HONDA (20) MUFFLER GASKET
	34	782664	N/A	4	NT M8-1.25 HX STAINLESS STEEL
	35	784959	784959	1	MUFFLER MANIFOLD
	36	789131	789131	1	HUSTLER Z FAN CONNECTION CAP

---

## **NOTES:**

1. Includes mounting hardware.
2. Part of Item 4 (799320 Tractor Common Wire Harness).
3. Part of 8 (799304 Wire Harness Adapter).
4. Engine oil capacity; 2.3 US quarts (with filter).
5. Engine RPM to be set at 3600± 50.
6. Used on 927756 only.

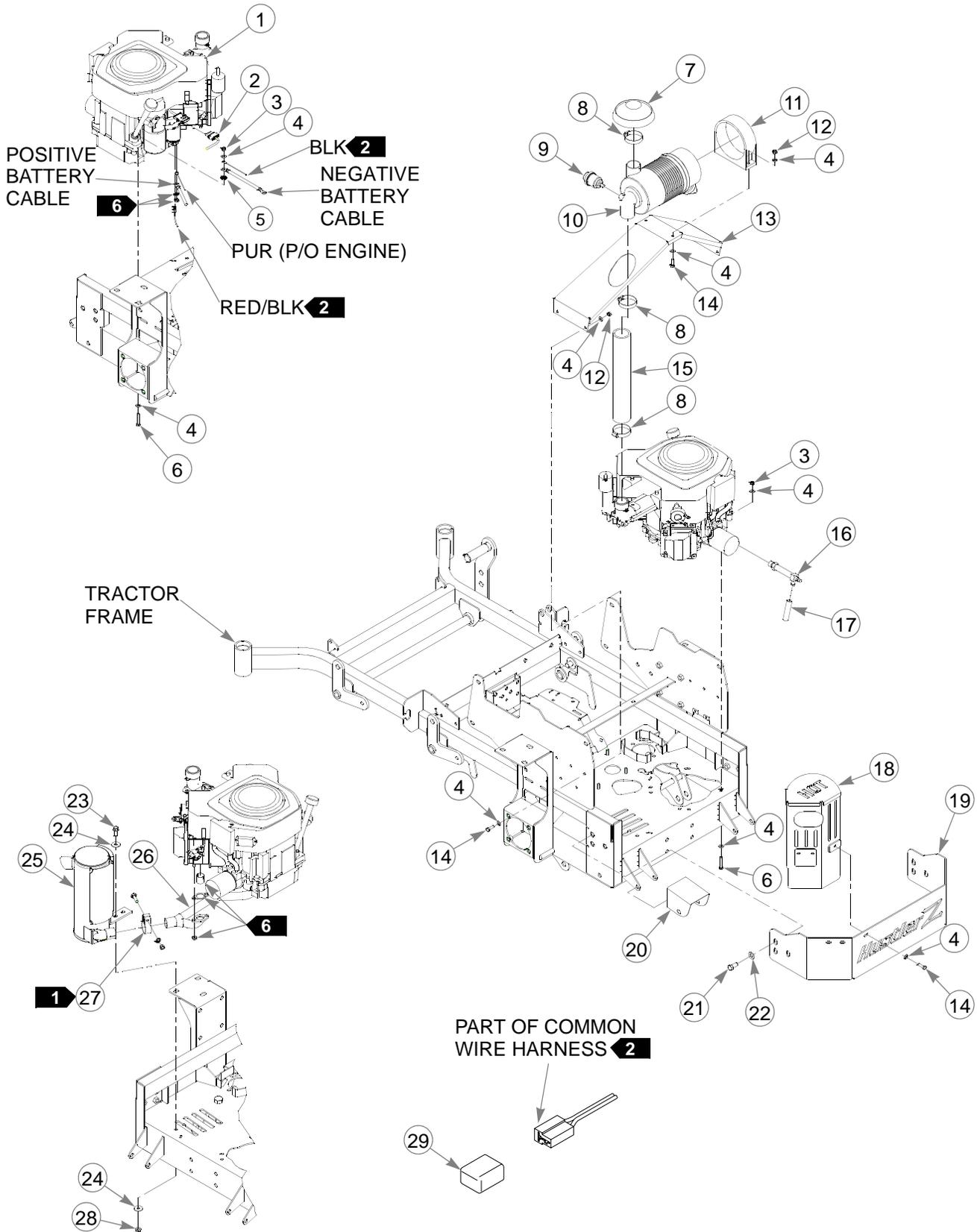
- 
7. Includes one (1) of Item 14 (057661 Hose Clamp).
  8. Supplied with engine.
  9. When installing lower hose clamp on air cleaner hose, install as low as possible (against carburetor inlet).
  10. This connector used for optional hydraulic oil cooler fan.
  11. Air filter service parts:

785261	MAIN AIR FILTER ELEMENT
763318	VACUATOR VALVE

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# Kohler Engine Installation



# **Kohler Engine Installation**

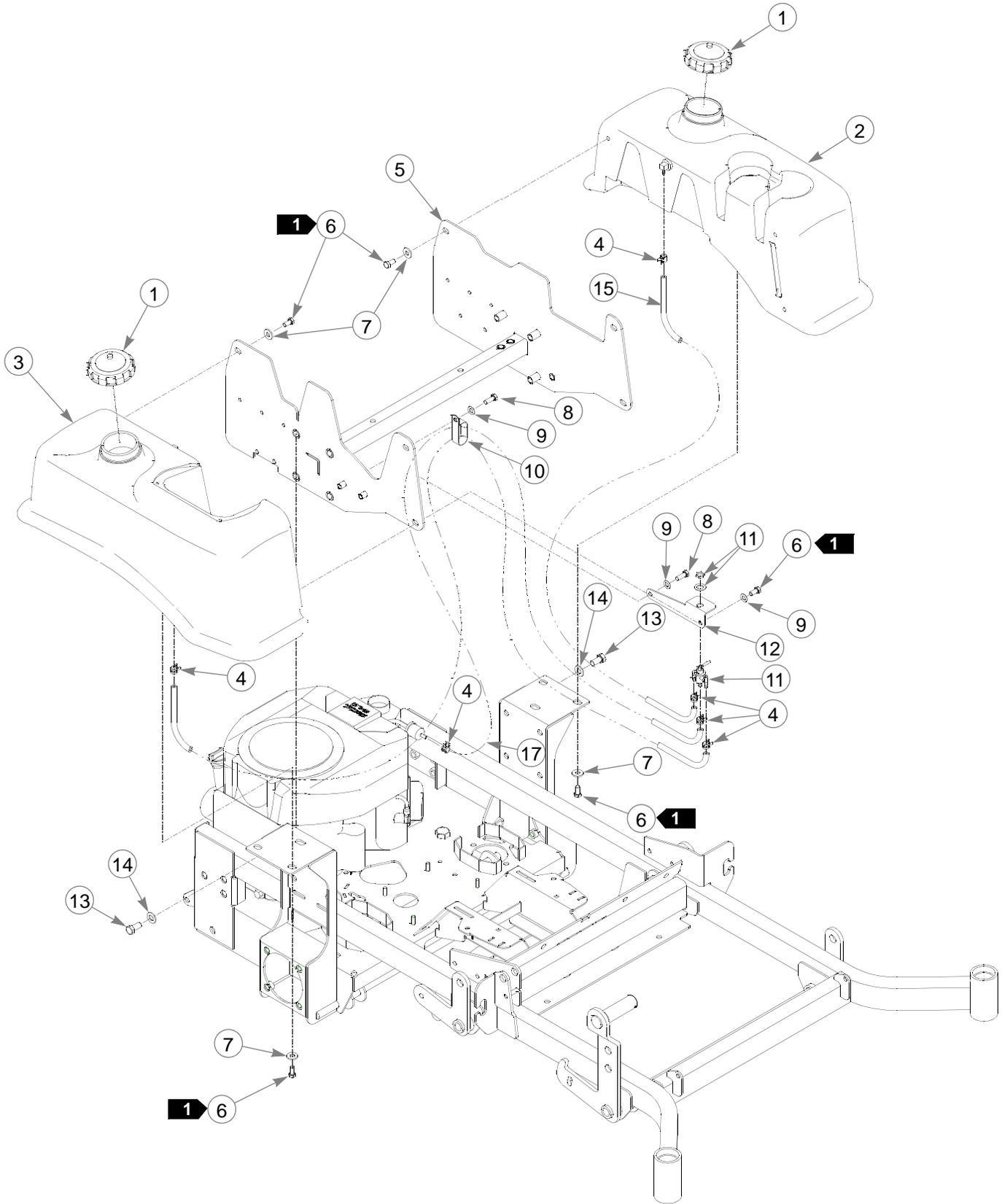
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
<b>5</b> 1	788216	788216	1	KOHLER 27HP ENGINE
2	799320	799320	1	COMMON WIRE HARNESS
3	058776	058776	4	NT .312-18 HXZY NL
4	768523	768523	29	FW .343 X .687 X .051/.080 HD ZN/YL
5	029876	029876	1	LW .312 INT-EXT TOOTH ZN
6	050161	050161	4	CS .312-18 X 1.75 HX G5
7	786673	786673	1	DONALDSON AIR CLEANER CAP
8	057661	057661	3	HOSE CLAMP
9	788943	788943		AIR FILTER INDICATOR
10	782763	782763	1	AIR CLEANER
11	785741	785741	1	MOUNTING BAND
12	034272	034272	6	NT .312-18 HX G5 ZN
13	366443	366443	1	REMOTE AIR CLEANER MOUNT BRACKET
14	036236	036236	9	CS .312-18 X 1.00 HX G5 ZNYC
15	795310	795310	1	REMOTE AIR FILTER HOSE (STRAIGHT)
16	796672	796672	1	3/8-18 OIL DRAIN VALVE
17	787713	787713	1	0.50" LOW PRESSURE HOSE
18	382168	382168	1	MUFFLER GUARD
19	365742	365742	1	ENGINE CAGE MOUNT PLATE
20	377994	377994	1	MMZ ROLLER HEAT SHIELD
21	016527	016527	6	CS .500-13 X 1.00 HX G5 ZNYC
22	767962	767962	6	FW .531 X 1.063 X .090 SAE HD ZN
23	029751	029751	2	CS .375-16 X 1.00 HXFLK ZNYC
24	705137	705137	4	FW .391 X 1.250 X .060 ZNYC
25	788018	788018	1	MUFFLER
26	788026	788026	1	MUFFLER MANIFOLD
27	785378	785378	1	1.50" MUFFLER CLAMP
28	016899	016899	2	NT .375-16 HXFLK ZNYC
29	789131	789131	1	HUSTLER Z FAN CONNECTION CAP

## **NOTES:**

1. Includes mounting hardware.
2. Part of Item 2 (799320 Common Wire Harness).
3. Engine oil capacity; 1.9 US quarts (w/filter).
4. Engine RPM to be set at 3600± 50.
5. Used on 927806, and 927814 only.
6. Supplied with engine.
7. Air filter service parts:

785261	MAIN AIR FILTER ELEMENT
763318	VACUATOR VALVE

# Fuel System Installation



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# **Fuel System Installation**

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	779306	779306	2	3.5" FUEL CAP
2	793240	793240	1	LEFT SIDE FUEL TANK
3	793232	793232	1	RIGHT SIDE FUEL TANK
4	000323	000323	6	CLIP
5	106732	N/A	1	REAR SEAT SUPPORT
6	055822	055822	12	CS .375-16 X .750 HX G5 ZN
7	712919	712919	11	FW .406 X 1.00 X .12 HRD ZN
8	036244	036244	2	CS .375-16 X 1.000 HX G5 ZN
9	767954	767954	3	FW .406 X .812 X .060 SAE HD ZN
10	045088	045088	1	HOSE CLAMP 1"
11	797084	797084	1	3-WAY NYLON FUEL VALVE
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 45.5"
16	015818	015818	1	FUEL LINE 26.5"
17	015818	015818	1	FUEL LINE 22.5"KAWASAKI
	015818	015818	1	FUEL LINE 36""HONDA
	015818	015818	1	FUEL LINE 38"KOHLER
	000331	000331	3	BLACK CABLE TIE (NOT SHOWN)

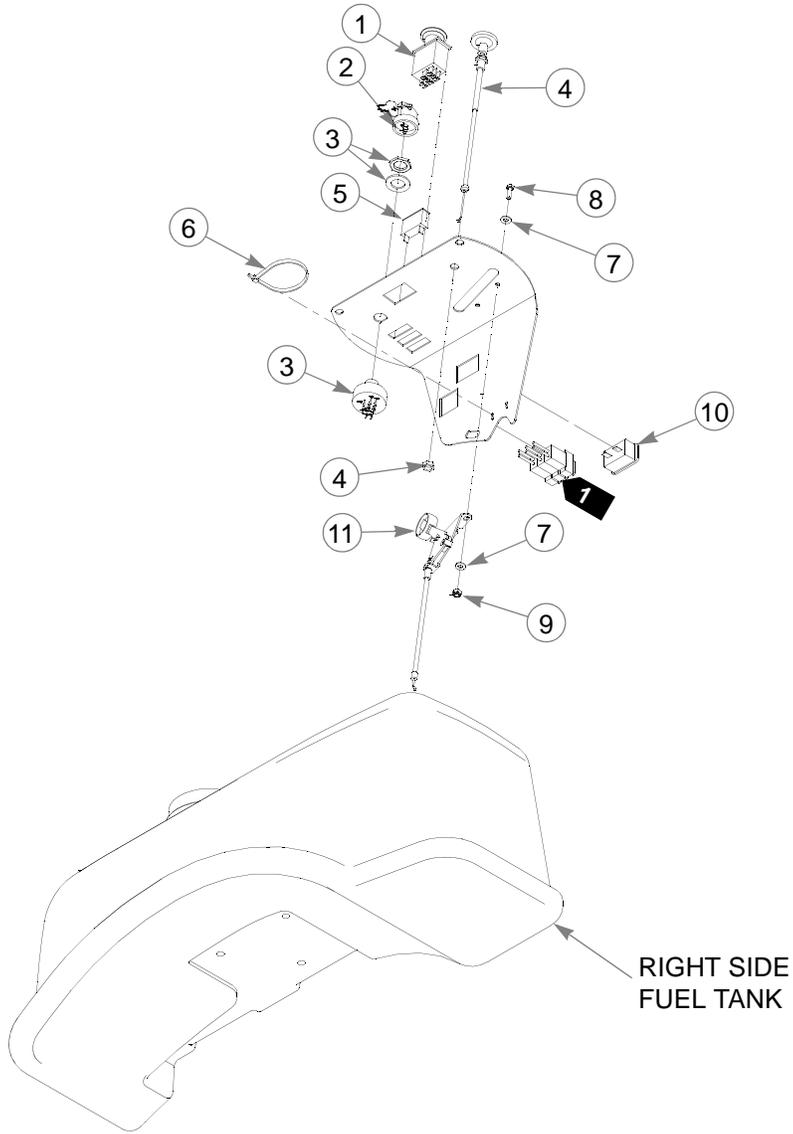
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## **NOTES:**

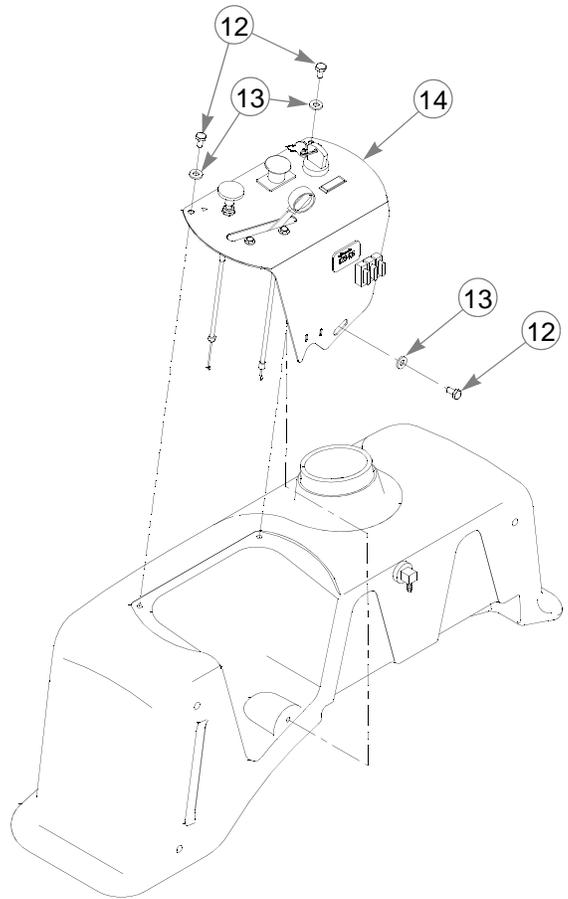
1. Torque to 20 ft.-lbs.
2. Supplied with new fuel tank.
3. Fuel tank service part not shown:

PN	DESCRIPTION
799197	SZ HOSE ASSY, SUCTION

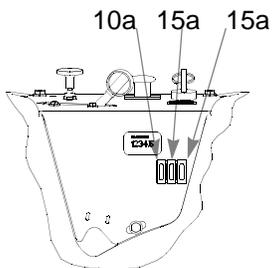
# Instrument Panel Assembly



RIGHT SIDE  
FUEL TANK



## FUSE SIZE AND LOCATION



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## **Instrument Panel Assembly**

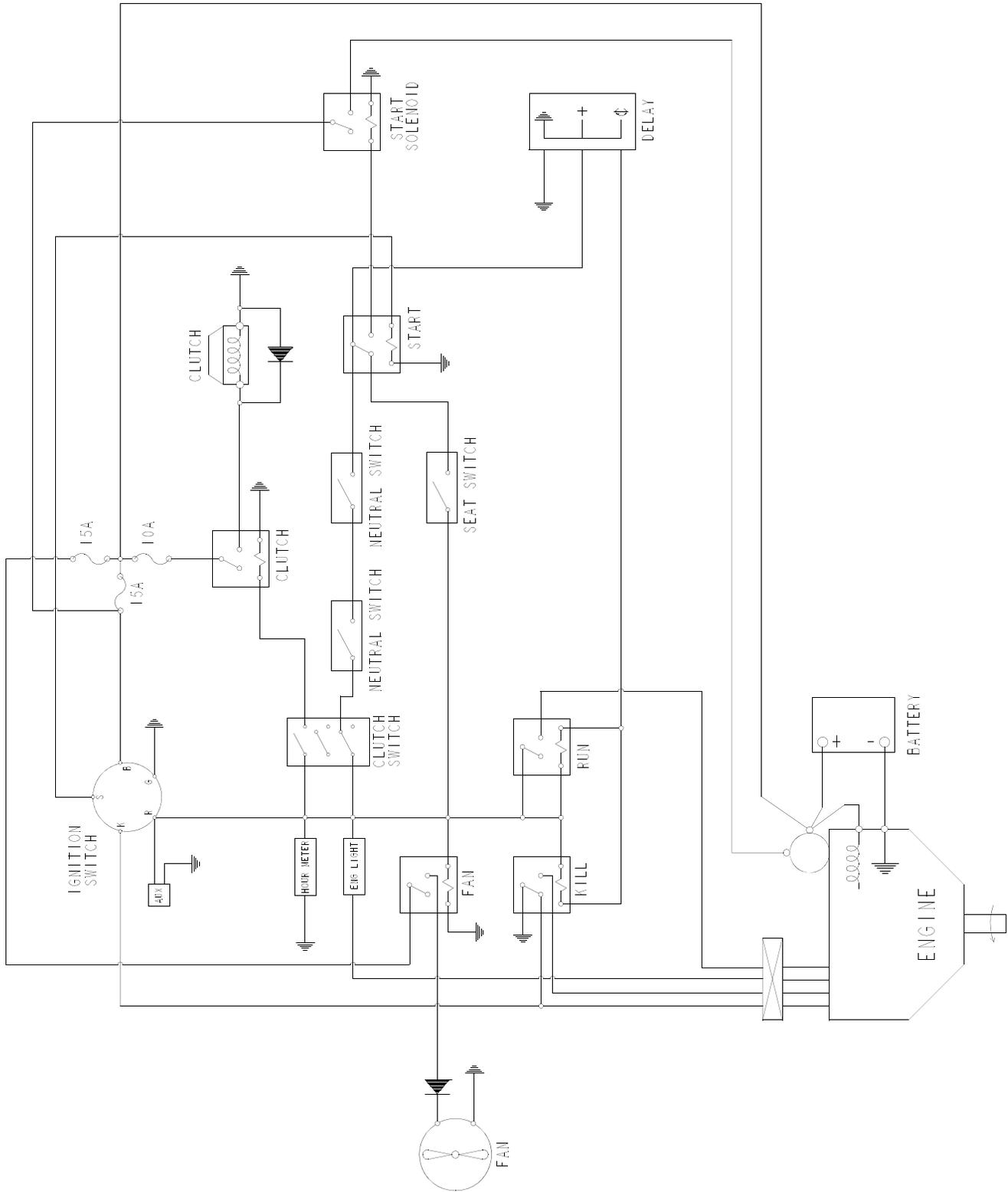
<b>ITEM NO.</b>	<b>SERVICE PART NO.</b>	<b>MFG. PART NO.</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	776476	776476	1	PTO SWITCH
2	785808	785808	1	IGNITION KEY SET
3	045898	045898	1	KEY SWITCH
4	785030	785030	1	Z CHOKE CABLE (KAWASAKI)
	786657	786657	1	Z CHOKE CABLE (HONDA & KOHLER)
5	712257	712257	1	RED INDICATOR LIGHT
6	000430	000430	2	TIE STRAP
7	704932	704932	4	FW .219 X .500 X .048 ZN
8	714998	714998	2	MS #10-24 X .625 HX ZN
9	059832	059832	2	NT #10-24 HX NL ZN
10	769166	769166	1	HOUR METER
11	778365	778365	1	THROTTLE/CHOKE CABLE
12	055947	055947	3	CS .250-20 X .500 HX G5 ZN
13	768515	768515	3	FW .281 X .625 X .051 /.080 HD ZN/YL
14	106633	106633	1	INSTRUMENT PANEL
	026237	N/A	6	RELAY (NOT SHOWN)
	762195	N/A	1	DELAY MODULE (NOT SHOWN)

---

### **NOTES:**

1. Part of 799320 (Common Wire Harness)

# Electrical Schematic (799320)

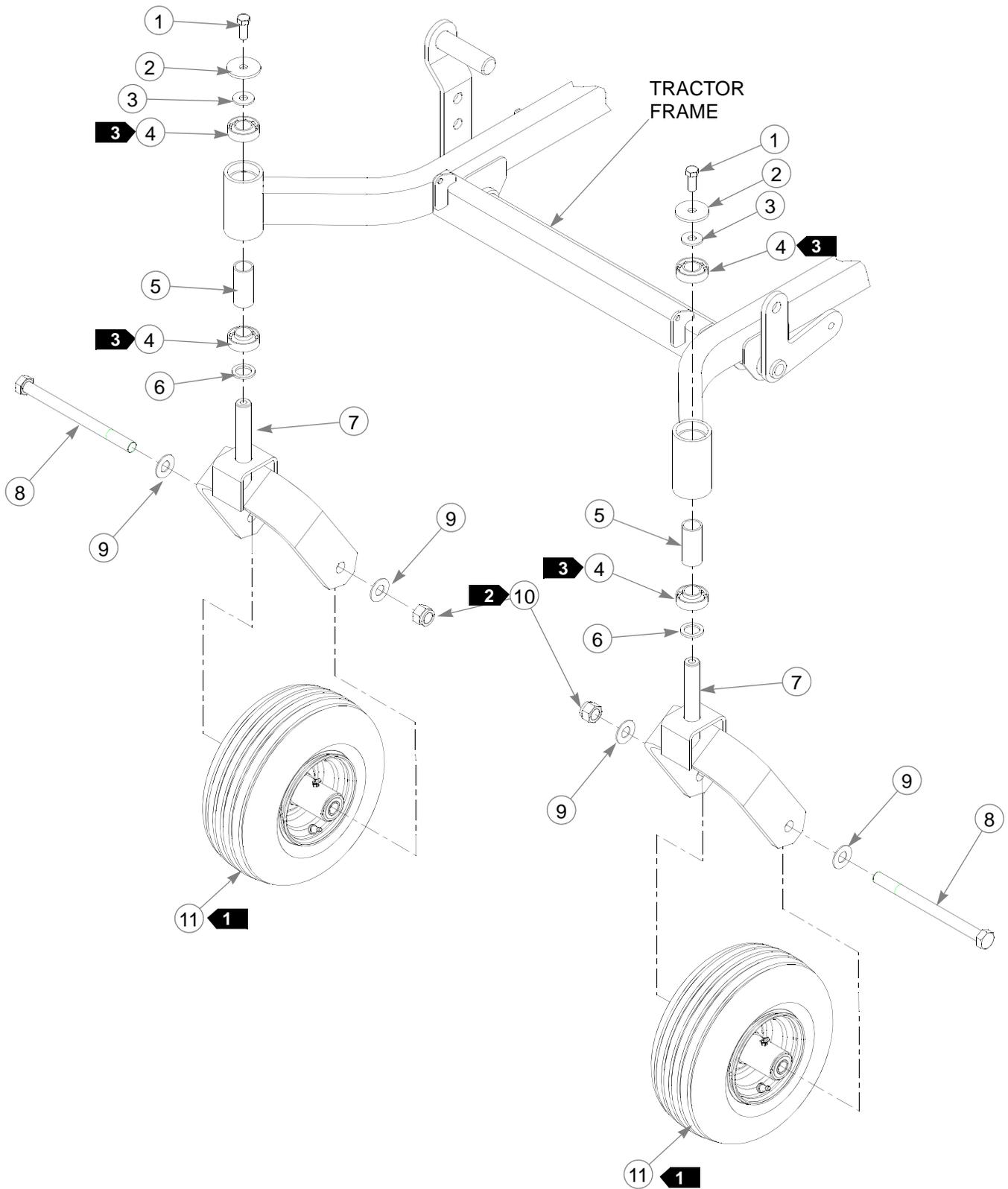


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# Front Wheel Assembly



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## **Front Wheel Assembly**

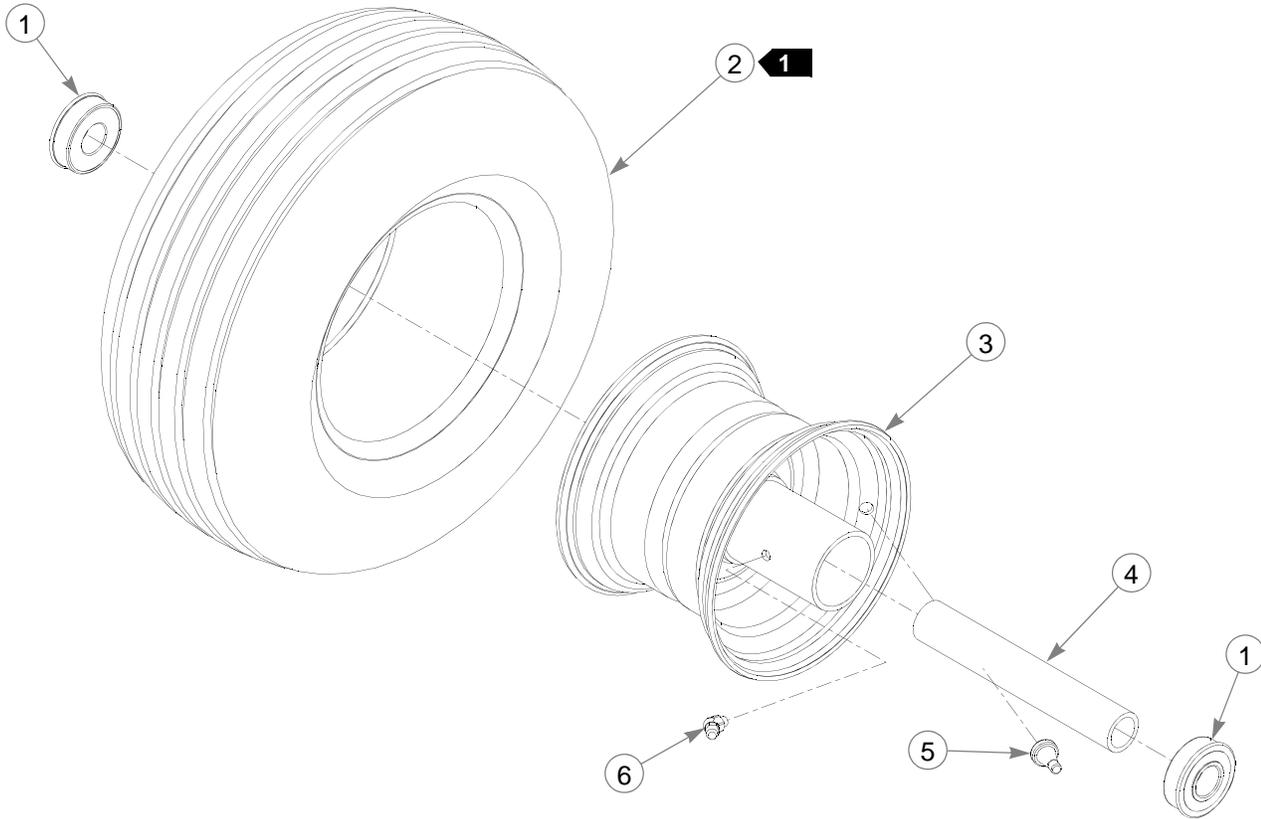
<b>INDEX NO.</b>	<b>SERVICE PART NO.</b>	<b>MFG. PART NO.</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	705954	705954	2	CS .500-13 X 1.25 HX G5 ZN
2	344267	344267	2	FW .510 X 2.15 X .187 SPL ZN
3	712976	712976	2	FW .531X 1.375X.125 ZNY
4	784223	784223	4	BEARING W/O COLLAR
5	387035	387035	2	SPACER, 1.07 X 1.312 X 2.793
6	045765	045765	2	FW 1.030 X 1.500 X.134 ZN
7	349266	349266	2	FORK
8	041475	041475	2	CS .750-10 X 9.50 HX ZN
9	025296	025296	4	FW .760 X 1.625 X .08 ZN
10	061101	061101	2	NT .750-10 HX NL ZN
11	747782	747782	2	WHEEL & TIRE ASSY
	789537	N/A	2	OPTIONAL SEMI-PNEUMATIC WHEEL/TIRE ASSEMBLY

---

### **NOTES:**

1. Apply grease to zerks.
2. Torque to 100 ft.-lbs.
3. Assemble with extended inner race toward item 5 (387035 Spacer, 1.07 x 1.312 x 2.793).

## **Front Wheel Breakdown—747782**



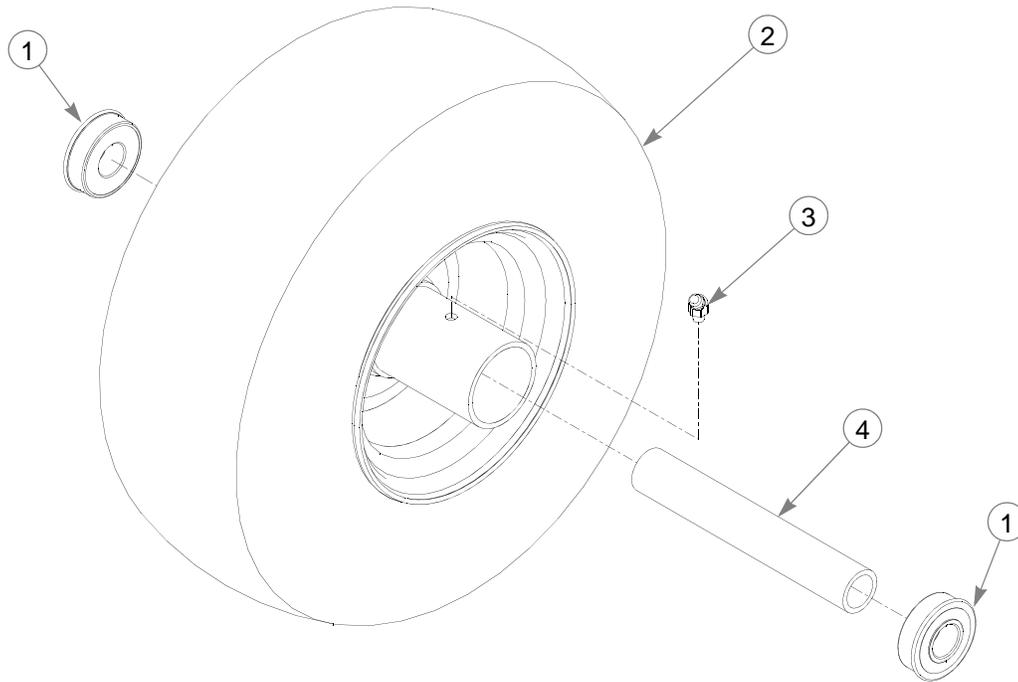
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	039677	N/A	2	WHEEL BEARING
2	747741	N/A	1	13 X 6.50 TIRE
3	747832	N/A	1	6 X 4.5 WHEEL
4	782771	N/A	1	BEARING SPACER
5	019521	N/A	1	TIRE VALVE
6	015511	N/A	1	GREASE FITTING 45 DEG 1/4

### **NOTES:**

1. Inflate tire to 8-10 psi.

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## **Optional Semi-Pneumatic Tire/Wheel—789537**



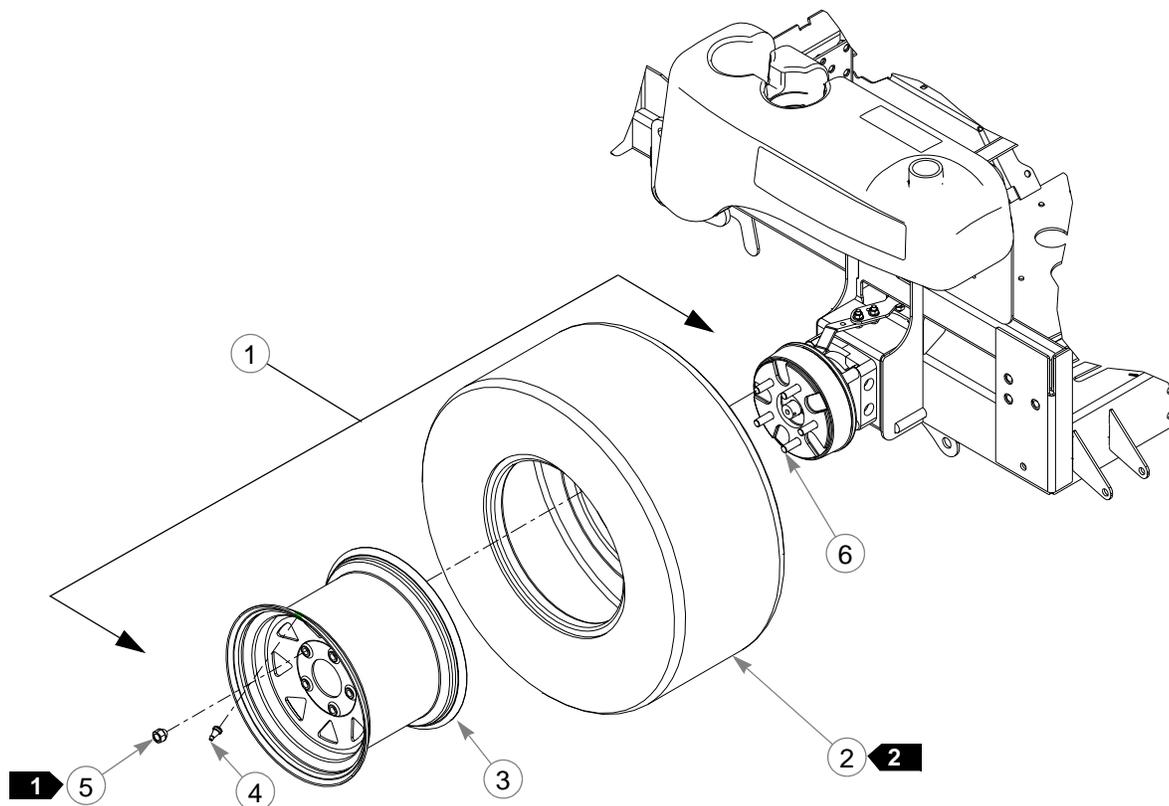
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ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	039677	N/A	2	WHEEL BEARING
2	789537	N/A	1	TIRE/WHEEL ASSEMBLY
3	015511	N/A	1	GREASE FITTING 45 DEG 1/4
4	782771	N/A	1	BEARING SPACER

---

### **NOTES:**

## Drive Wheel Assembly Installation

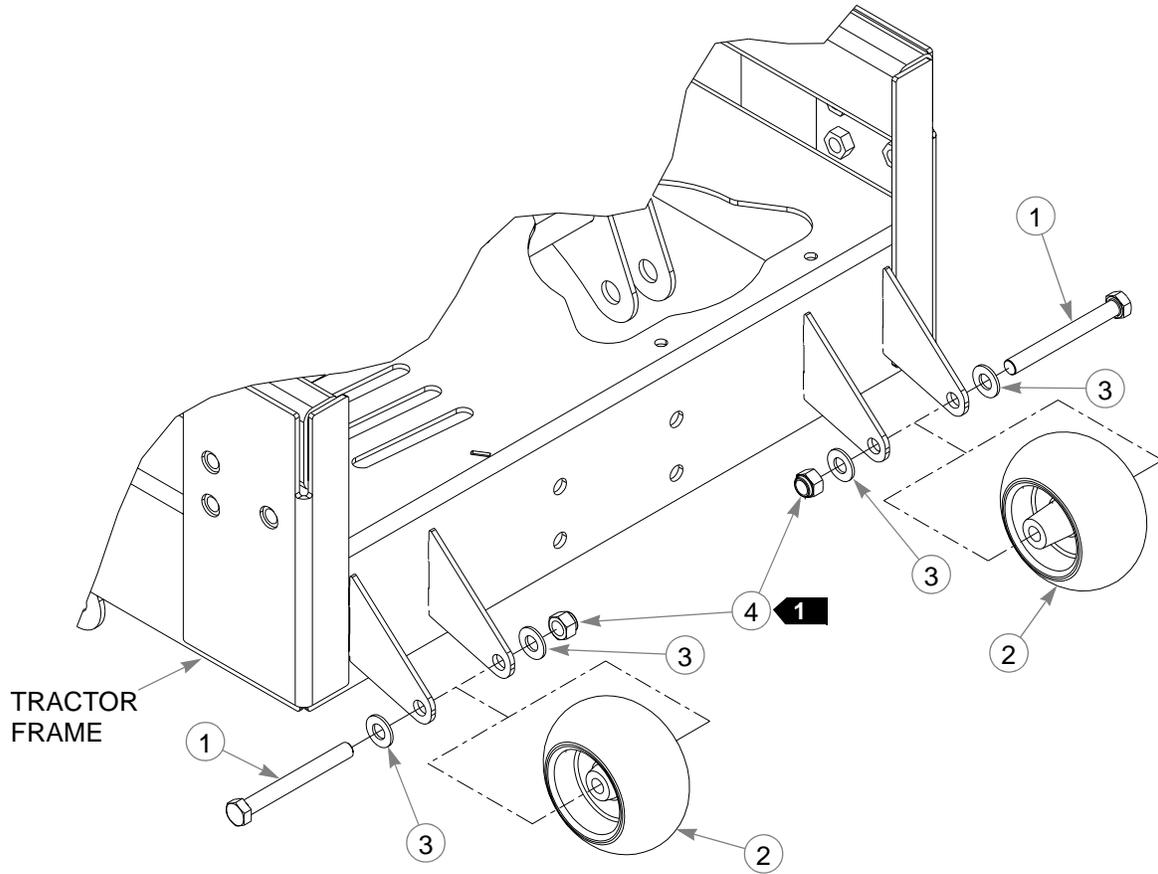


INDEX NO.	SERVICE PART NO.	PART NO.	QTY	DESCRIPTION
1	784058	784058	2	WHEEL & TIRE ASSY FOR 66" (QTY PER TRACTOR)
2	781245	N/A		TIRE, 12 X 12 X 24 FOR 66"
3	784066	N/A		WHEEL ASSEMBLY 12 X 8.50 FOR 66"
4	019521	N/A		TIRE VALVE
5	061077	061077	10	WHEEL NUT (QTY PER TRACTOR)
6	770859	N/A	10	1/2" WHEEL LUG STUD
1	781237	781237	2	WHEEL & TIRE ASSY FOR 60" & 54" (QTY PER TRACTOR)
2	781245	N/A		TIRE, 12 X 12 X 24 FOR 60" & 54"
3	781252	N/A	2	WHEEL ASSEMBLY 12 X 8.50 FOR 60" & 54"
4	019521	N/A	2	TIRE VALVE
5	061077	061077	10	WHEEL NUT (QTY PER TRACTOR)
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.

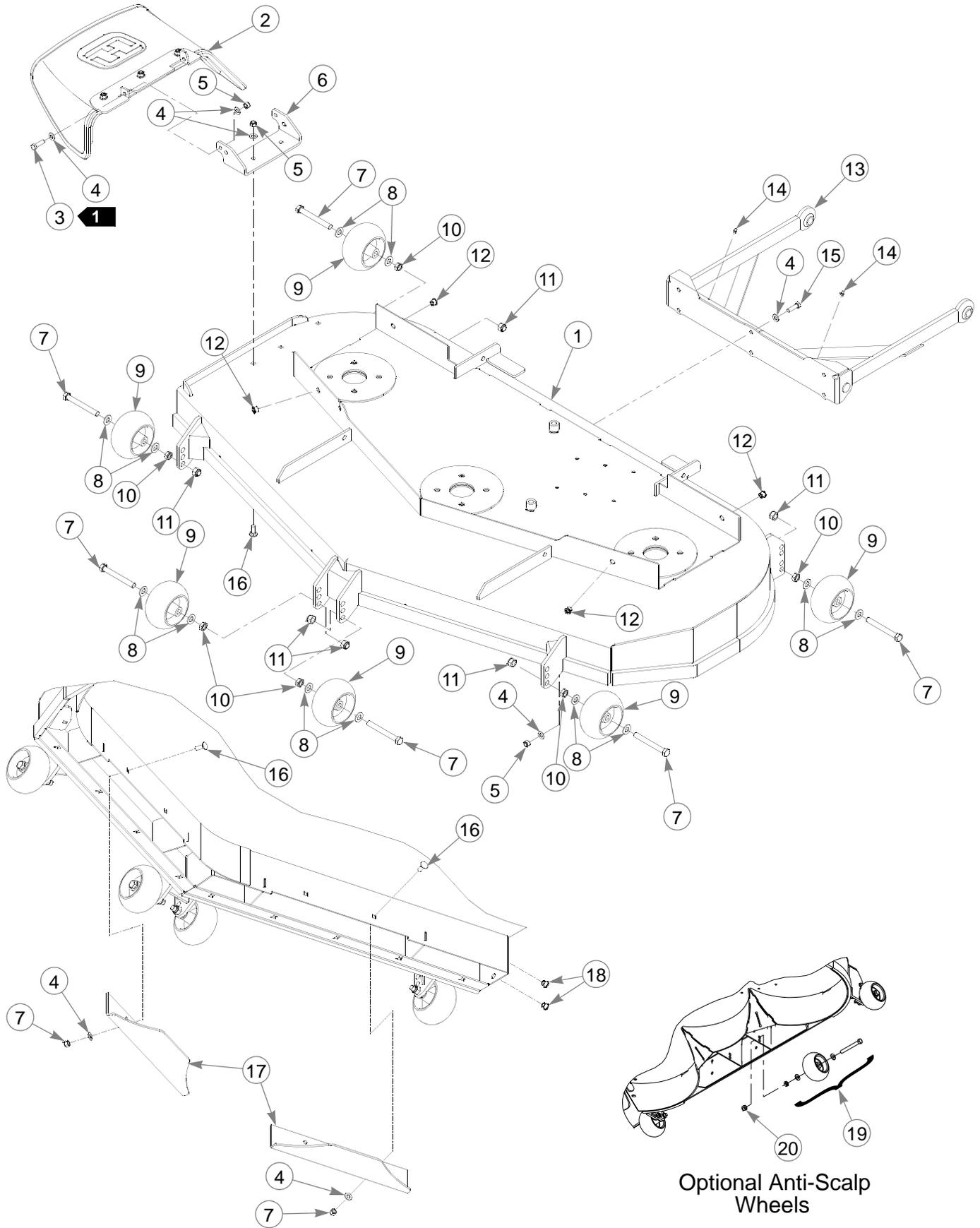


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## Chapter 7 Contents

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# 66" Deck Assembly



Optional Anti-Scalp  
Wheels

# 66" Deck Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
<b>3</b> 1	547737	103929	1	66" DECK CRATED
2	798694	798694	1	RUBBER CHUTE ASSEMBLY
3	052860	052860	2	CS .375-19 X 1.250 HX G5 ZN
4	767954	767954	22	FW .406 X .812 .060 SAE HD ZN
5	086660	086660	8	NT .375-16 HX LK NY
6	103010	103010	1	DISCHARGE CHUTE MOUNT BRACKET
7	781708	N/A	6	CS .500-13 X 4.25 HX G5 ZN
8	767962	N/A	12	FW .531 X 1.063 X .090 SAE HD ZN
9	031997	N/A	6	ANTI-SCALP WHEEL
10	053199	N/A	6	NT .500-13 HX JAM ZN
11	781567	781567	6	NT .50-13 HX LK NY
12	808485	808485	4	5/16-18 THREAD RIVET NUT
13	314104	314104	1	PUSHER
14	015495	015495	2	STRAIGHT GREASE FITTING
15	052860	052860	6	CS .375-16 X 1.25 HX G5
16	025395	025395	6	CB .375-16 X 1.00 STD CD
17	103713	103713	2	66, AIR FLOW FLOOR
18	N/A	808493	2	RIVET NUT, 3/8-16 THREAD
<b>2</b>	788166	788166	4	ANTI SCALP WHEEL ASSY

### NOTES:

1. Do not torque, Item 2 (349324 Discharge Chute) must pivot freely.
2. Includes 6 each of items 7 through 10.
3. Service part deck includes decals (see "66" Deck Decals" in on page - 4 for listing of decals).
4. For optional anti-scalp wheels order:

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
<b>2</b> 19	788166	788166	2	ANTI-SCALP WHEEL ASSEMBLY
20	781567	781567	2	NT .500-13 H8ZY NL



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## **66" Deck Pulley Assembly**

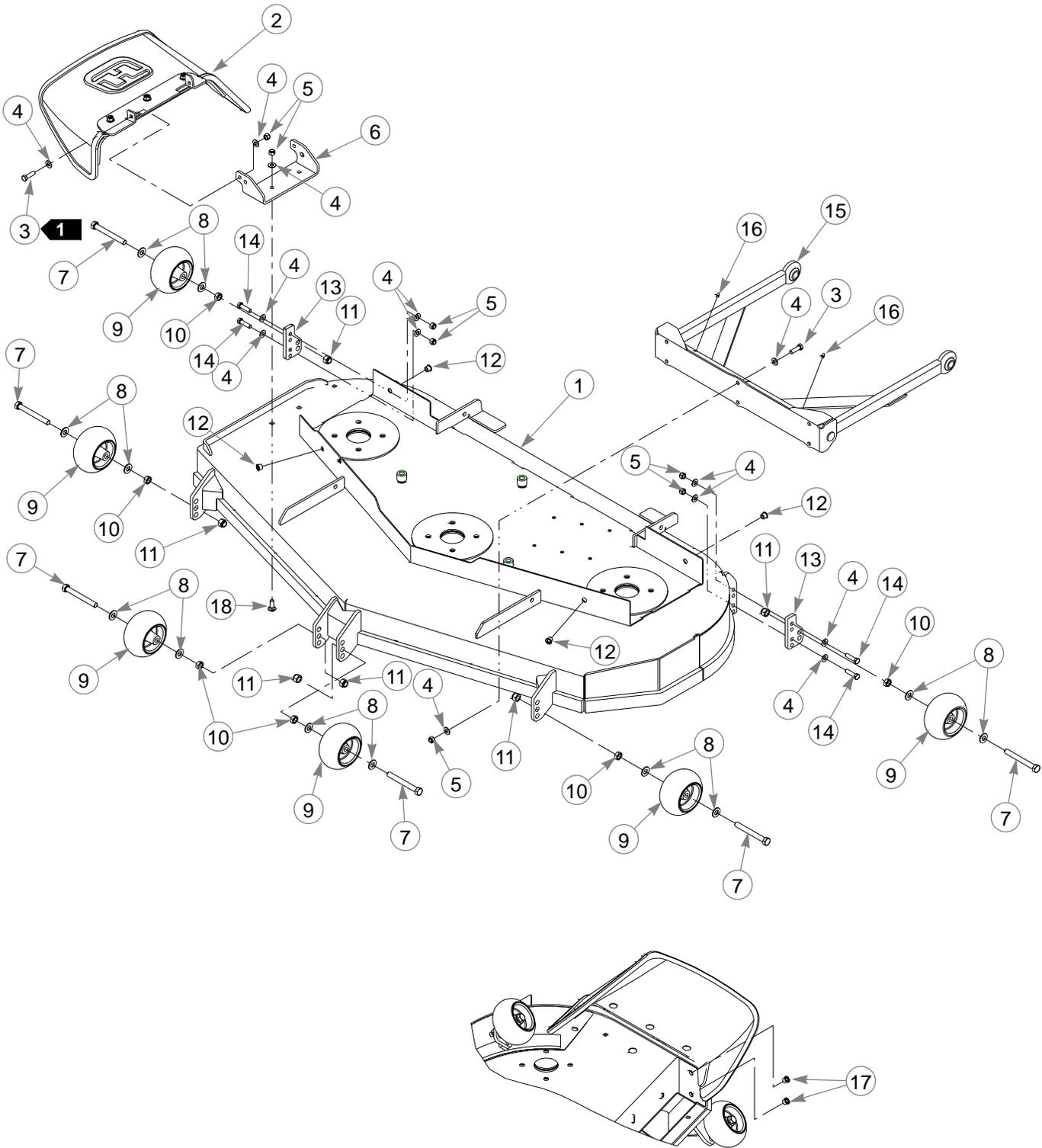
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	797936	797936	1	B-SECTION BELT
2	025007	025007	1	CS .625-11 X 1.75 HX G5 ZNYC
3	347443	347443	1	DECK BELT IDLER GUIDE
4	028118	028118	5	FW .62 X 1.00X.134 ZN
5	781856	781856	1	5.00" IDLER PULLEY
6	797910	797910	6	CS .312-18 X 1.50 FLT SH ZNYC
7	600189	600189	1	RS UHMW IDLER SLIDE
8	600171	600171	1	LS UHMW IDLER SLIDE
9	373191	059961	1	SIDE MOUNT CHAIN (21 LINKS)
10	781302	781302	1	IDLER SPRING
11	350884	350884	1	DECK IDLER
12	786335	786335	1	.03 THICK UHMW
13	103721	103721	1	RS 66" XR7 PULLEY COVER
14	103739	103739	1	LS 66" XR7 PULLEY COVER
15	016972	016972	2	NT .625-11 HX G5 ZNYC
16	781385	781385	2	6.00" IDLER PULLEY,
17	792002	792002	4	5/16-18 X 3/4" MALE KNOB
18	016527	016527	3	CS .500-13 X 1.00 HX G5 ZN
19	752386	752386	3	CW .515X 2.25X .204 ZN
20	798975	798975	3	B-SEC 6.32 EOD PULLEY
21	705954	705954	12	CS .500-13 X 1.25 HX G5 ZNYC
22	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
23	768523	768523	6	FW .343 X .687 X .051/.080 HD ZN
24	058776	058776	6	NT .312-18 HXZY NL
25	212472	212472	3	KEY 1/4 SQ X 1.00 LONG
26	796235	796235	3	SPINDLE HOUSING ASSEMBLY
27	798496	798496	3	BLADE, F22.50"-H-F-CW
	798512	N/A	3	OPTIONAL BLADE, F24.50"-H-F-CW
	798504	N/A	3	OPTIONAL BLADE, 22.50"-MUL-F-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

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### **NOTES:**

1. Torque to 118 ft. lbs.
2. Torque to 67-75 ft. lbs.
3. Apply grease to zerk (see owner's manual).
4. See "Deck Belt Routing and Tensioning" in on page -4 for belt tensioning.
5. See "Spindle Assembly-796235" in on page -14 for breakdown.

# 60" Side Discharge Deck Assembly



# 60" Side Discharge Deck Assembly

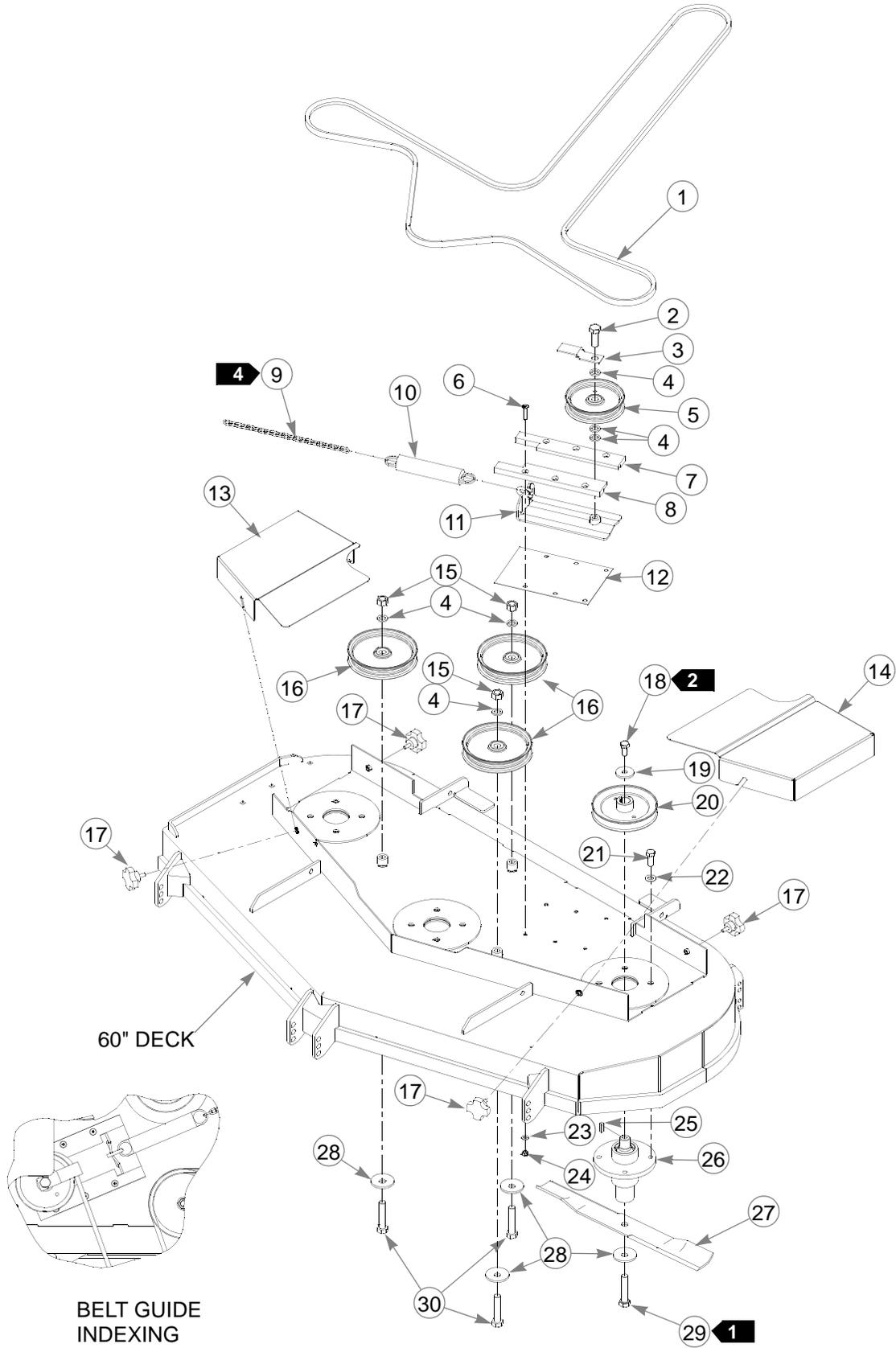
INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
<b>3</b> 1	547745	314021	1	60" DECK CRATED
2	798694	798694	1	RUBBER CHUTE ASSEMBLY
3	052860	052860	8	CS .375-16 X 1.25 HX G5
4	767954	767954	30	FW .406 X .812 X .060 SAE HD ZN
5	086660	086660	24	NT .375-16 HX LK NY
6	103010	103010	1	DISCHARGE CHUTE MOUNT BRACKET
7	781708	N/A	6	CS .500-13 X 4.25 HX G5 ZN
8	767962	N/A	12	FW .531 X 1.063 X .090 SAE HD ZN
9	031997	N/A	6	ANTI-SCALP WHEEL
10	053199	N/A	6	NT .500-13 HX JAM ZN
11	781567	781567	6	NT .50-13 HX LK NY
12	808485	808485	4	5/16-18 THREAD RIVET NUT
13	103184	103184	2	REAR ANTI-SCALP BRACKET
14	005116	005116	4	CS .375-16 X 1.375 HX G5 ZNYC
15	314104	314104	1	PUSHER
16	015495	015495	2	STRAIGHT GREASE FITTING
17	808493	808493	2	3/8-16 THREAD RIVET NUT
<b>2</b>	788166	788166	4	ANTI SCALP WHEEL ASSY

### NOTES:

1. Do not torque, Item 2 (798694 Discharge Chute) must pivot freely.
2. Includes items 7, 8, 9, and 10.
3. Service part deck includes decals (see "60" Deck Decals" in on page - 5 for listing of decals).
4. For optional anti-scalp wheels order:

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
<b>2</b> 21	788166	788166	2	ANTI-SCALP WHEEL ASSEMBLY
22	781567	781567	2	NT .500-13 H8ZY NL

# 60" Deck Pulley Assembly



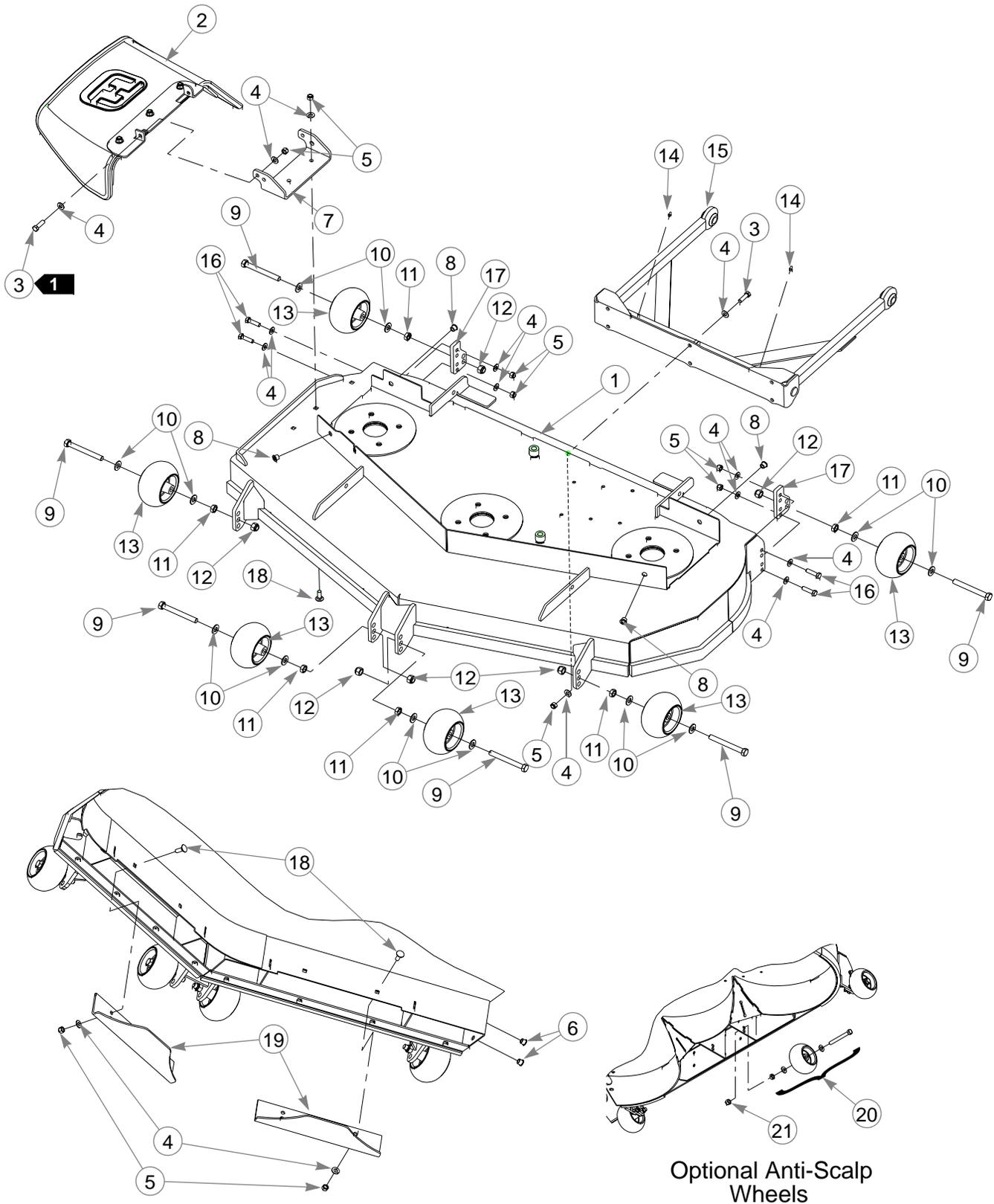
# 60" Deck Pulley Assembly

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	797720	797720	1	B-SECTION BELT
2	025007	025007	1	CS .625-11 X 1.75 HX G5 ZNYC
3	347443	347443	1	DECK BELT IDLER GUIDE
4	028118	028118	5	FW .62 X 1.00X.134 ZN
5	781856	781856	1	5.00" IDLER PULLEY
6	797910	797910	6	CS .312-18 X 1.50 FLT SH ZNYC
7	600189	600189	1	RS UHMW IDLER SLIDE
8	600171	600171	1	LS UHMW IDLER SLIDE
9	373191	059961	1	SIDE MOUNT CHAIN (21 LINKS)
10	781302	781302	1	IDLER SPRING
11	350884	350884	1	DECK IDLER
12	786335	786335	1	.03 THICK UHMW
13	103192	103192	1	RS 60" XR7 PULLEY COVER
14	103200	103200	1	LS 60" XR7 PULLEY COVER
15	016972	016972	3	NT .625-11 HX G5 ZNYC
16	781385	781385	3	6.00" IDLER PULLEY,
17	792002	792002	4	5/16-18 X 3/4" MALE KNOB
18	016527	016527	3	CS .500-13 X 1.00 HX G5 ZN
19	752386	752386	3	CW .515X 2.25X .204 ZN
20	770842	770842	3	DECK DRIVE PULLEY
21	705954	705954	12	CS .500-13 X 1.25 HX G5 ZNYC
22	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
23	768523	768523	6	FW .343 X .687 X .051/.080 HD ZN
24	058776	058776	6	NT .312-18 HXZY NL
25	212472	212472	3	KEY 1/4 SQ X 1.00 LONG
26	796235	796235	3	SPINDLE HOUSING ASSEMBLY
27	794685	794685	3	BLADE, F20.50" H-F-CW
	794230	N/A	3	OPTIONAL BLADE, 20.50" GAT-F-CW
	794214	N/A	3	OPTIONAL BLADE, 20.50"-MUL-F-CW
28	782474	782474	6	CW .631 2.250 X .187 PNT
29	029934	029934	3	CS .625-11 X 3.00 HX G5 ZNYC
30	783738	783738	3	CS .625-11 X 3.00 FULL HX G5 ZN

## NOTES:

1. Torque to 118 ft. lbs.
2. Torque to 65-75 ft. lbs.
3. Apply grease to zerk (see owner's manual).
4. See "Deck Belt Routing and Tensioning" in on page -4 for belt tensioning.
5. See "Spindle Assembly-796235" in on page -14 for breakdown.

# 54" Deck Assembly



# 54" Deck Assembly

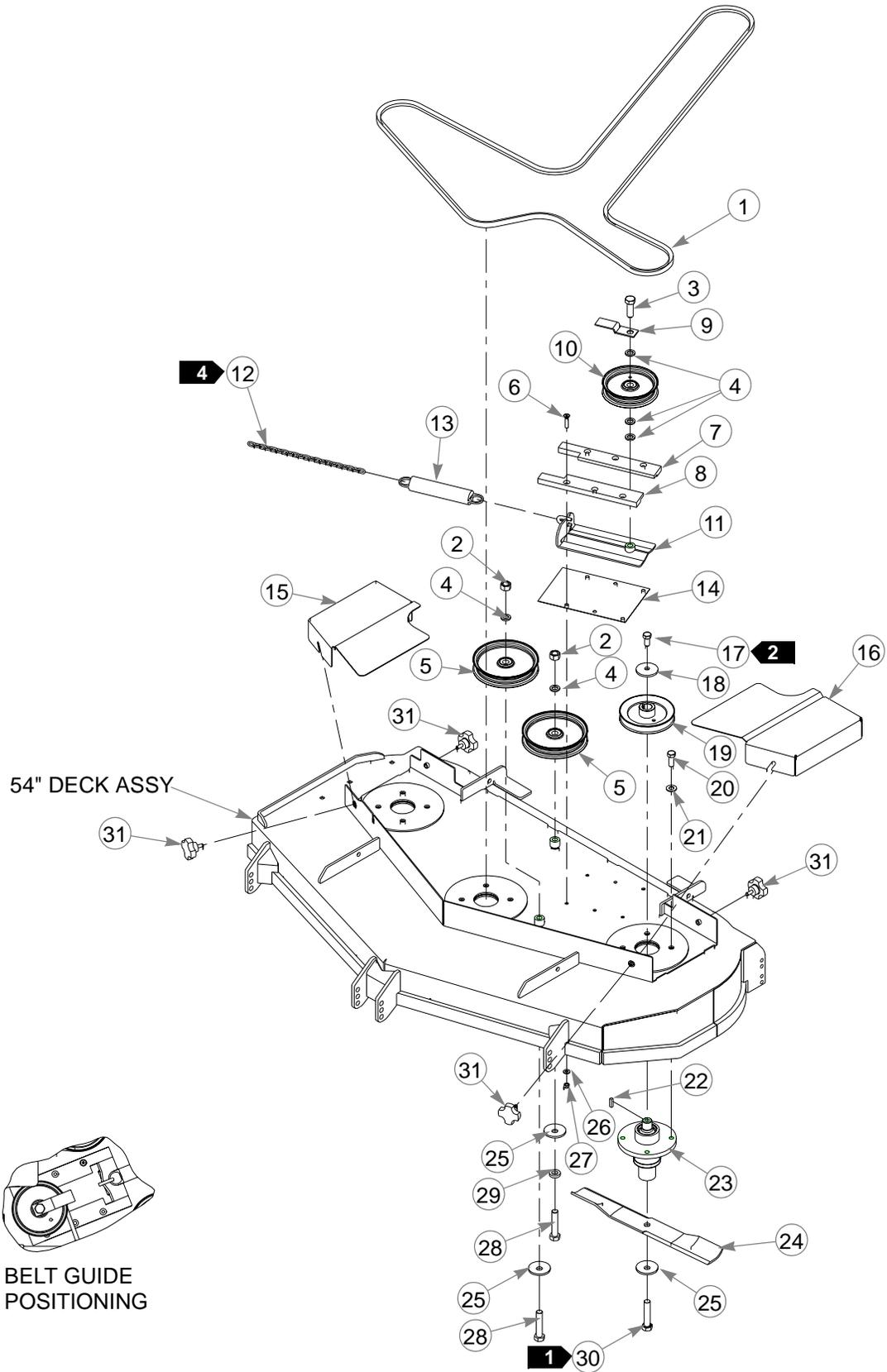
INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	548008	103317	1	54" DECK CRATED
2	798694	798694	1	54" DISCHARGE CHUTE
3	052860	052860	8	CS .375-16 X 1.25 HX G5 ZN
4	767954	767954	30	FW .406 X .812 X .060 SAE HD ZN
5	086660	086660	18	NT .375-16 HX LK NY
6	N/A	808493	2	3/8-16 THREAD RIVET NUT
7	103010	103010	1	DISCHARGE CHUTE MOUNT BRACKET
8	N/A	808485	4	5/16-18 THREAD RIVET NUT
9	781708	N/A	6	CS .500-13 X 4.25 HX G5 ZN
10	767962	N/A	12	FW .531 X 1.063 X .090 SAE HD ZN
11	053199	N/A	6	NT .500-13 HX JAM ZN
12	781567	781567	6	NT .50-13 HX LK NY
13	031997	N/A	6	ANTI-SCALP WHEEL
14	015495	015495	2	STRAIGHT GREASE FITTING
15	314104	314104	1	PUSHER
16	005116	005116	4	CS .375-16X1.375 HX G5
17	103184	103184	2	REAR ANTI-SCALP BRACKET
18	025395	025395	6	CB .375-16X 1.00 STD CD
19	103572	103572	2	54" AIR FLOW BAFFLE
<b>2</b>	788166	788166	6	ANTI-SCALP WHEEL ASSEMBLY

### NOTES:

1. Do not torque, Item 2 (798694 Discharge Chute) must pivot freely.
2. Includes items 9, 10, 11, and 13.
3. Secure Item 11 (053199 Jam Nut) to bolt with a drop of Loctite® (271 Red). Tighten Item 11 to shank of Item 9 (781708 Cs .500-13 X 4.25 Hx G5 Zn). Anti-scalp wheel must turn freely.
4. Assemble in top hole for shipping purposes.
5. Item 15 (314104 Pusher) installed as shown with zerks pointing upward, apply grease to zerks.
6. Service part deck includes decals (see "66" Deck Decals" in on page - 4 for listing of decals) and item 2 (Discharge Chute).
7. For optional anti-scalp wheels order:

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION	
<b>2</b>	20	788166	788166	2	ANTI-SCALP WHEEL ASSEMBLY
	21	781567	781567	2	NT .500-13 H8ZY NL

# 54" Deck Pulley Assembly



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# **54" Deck Pulley Assembly**

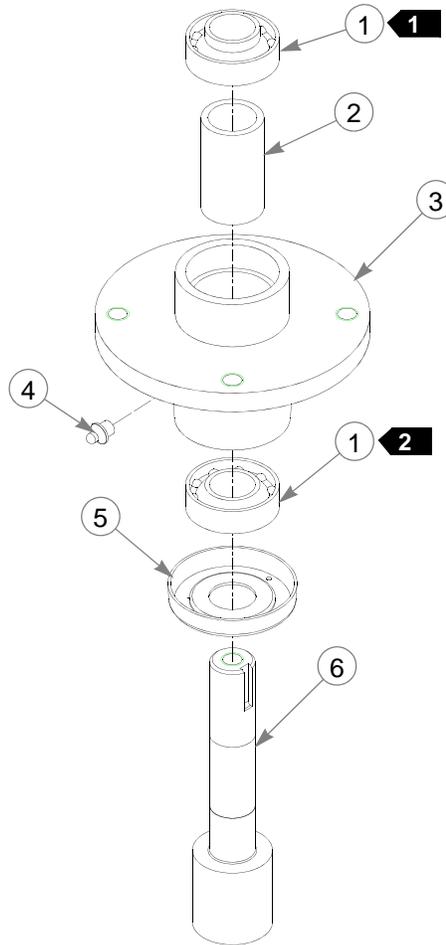
INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	797928	797928	1	B-SECTION BELT
2	016972	016972	2	NT .625-11 HX G5 ZNYC
3	025007	025007	1	CS .625-11 X 1.50 HX G5 ZN
4	028118	028118	5	FW .62 X 1.00 X .134 ZN
5	781385	781385	2	6.00" IDLER PULLEY
6	797910	797910	6	CS .312-18X1.50FLT SH ZY
7	600189	600189	1	IDLER SLIDE UHMW RS
8	600171	600171	1	IDLER SLIDE UHMW LS
9	347443	347443	1	DECK BELT IDLER TOP GUIDE
10	781856	781856	1	5.00" IDLER PULLEY
11	350884	350884	1	DECK IDLER
12	373191	059931	1	SIDE MOUNT CHAIN 21 LINKS
13	781302	781302	1	IDLER SPRING
14	786335	786335	1	UHMW .03 THICK
15	103986	103986	1	RS 54" PULLEY COVER
16	103994	103994	1	LS 54" PULLEY COVER
17	016527	016527	3	CS .500-13 X 1.00 HX G5 ZN
18	752386	752386	3	CW .515X 2.25X .204 ZN
19	798967	798967	3	DECK DRIVE PULLEY
20	705954	705954	12	CS .500-13X1.25 HX G5 ZY
21	767962	767962	12	FW .531X 1.063X.090 SAE
22	212472	212472	3	KEY 1/4 SQ X 1.00 LONG
23	796235	796235	3	DECK SPINDLE ASSY
24	797696	797696	3	BLADE, F18.50"-H-F-CW
	797712	N/A	3	OPTIONAL BLADE, 18.50"-GAT-F-CW
	797704	N/A	3	OPTIONAL BLADE, 18.50"-MUL-F-CW
25	782474	782474	5	CW .631 X 2.250 X .187 PNT
26	768523	768523	6	FW .343X.687X.051/.080H
27	058776	058776	6	NT .312-18 HXZY NL
28	783738	783738	2	CS .625-11X3.00 FULL HX G5 ZN
29	769257	769257	1	FW .656X 1.250X.250 ZNY
30	029934	029934	3	CS .625-11 X 3.00 HX G5 ZNYC
31	792002	792002	4	5/16-18 X 3/4"MALE KNOB

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## **NOTES:**

1. Torque to 118 ft. lbs.
2. Torque to 65-75 ft. lbs.
3. Apply grease to zerk.
4. See "Deck Belt Routing and Tensioning" in on page -4 for belt tensioning.
5. See "Spindle Assembly-796235" in on page -14 for breakdown.

# 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	600893	N/A	1	BEARING DUST COVER
6	796227	N/A	1	SADDLELESS SPINDLE SHAFT

### NOTES:

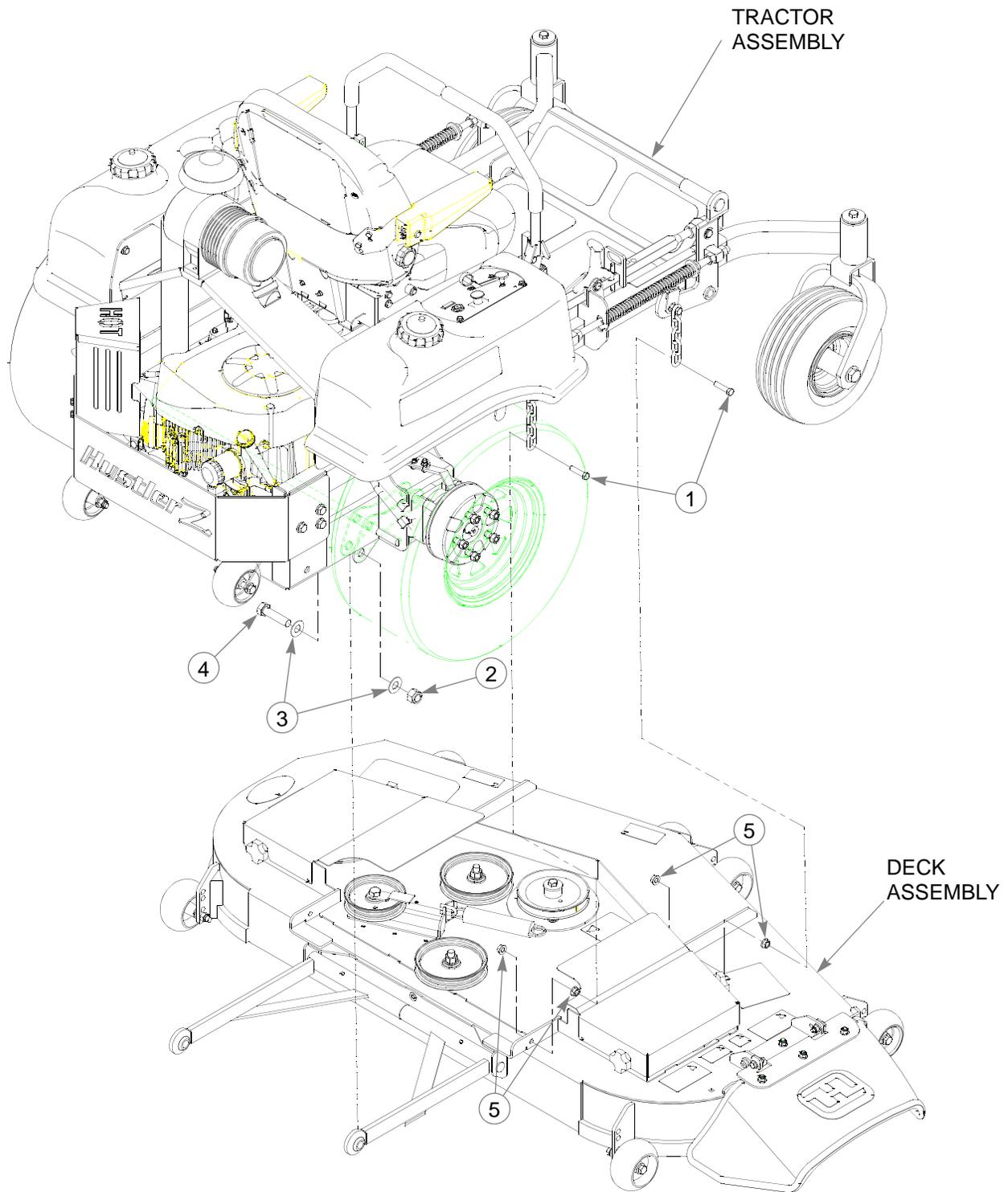
1. Install upper bearing with extended inner race up.
2. Install lower bearing with extended inner race down.

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## Chapter 8 Contents

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# Deck Installation



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## **Deck Installation**

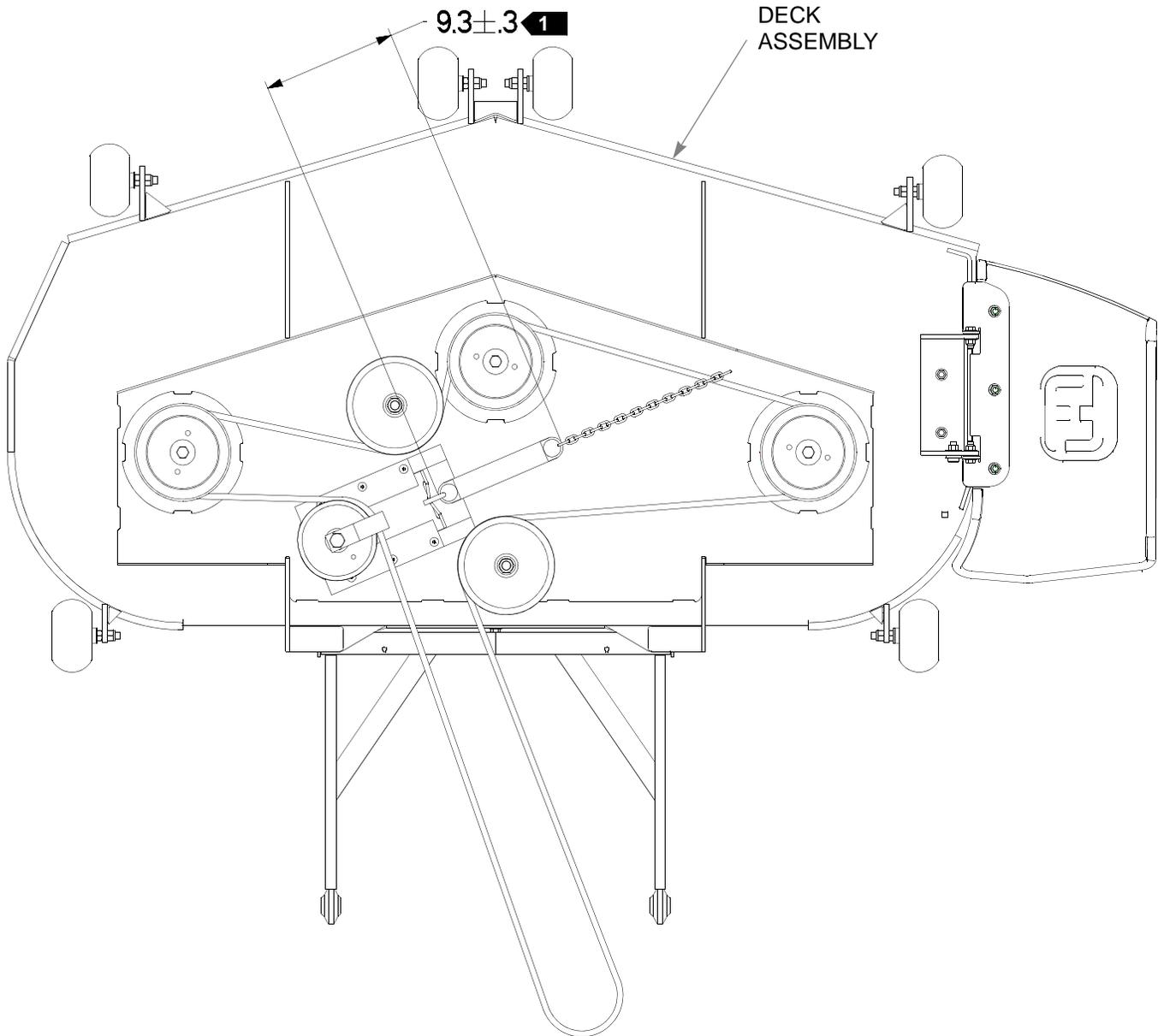
<b>ITEM NO.</b>	<b>SERVICE PART NO.</b>	<b>MFG. PART NO.</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	055749	055749	4	CS .437-14 X 1.750 HX G5 ZN
2	061101	061101	2	NT .750-10 HX NL ZN
3	025296	025296	4	FW .760 X 1.625 X.08 ZN
4	051169	051169	2	CS .750-10 X 3.000 HX G5 ZN
5	704643	704643	8	NT .437-14 HX FLG ZN

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### **NOTES:**

1. 66" Deck installation is shown, 54" and 60" Deck installations are similar.

# Deck Belt Routing and Tensioning

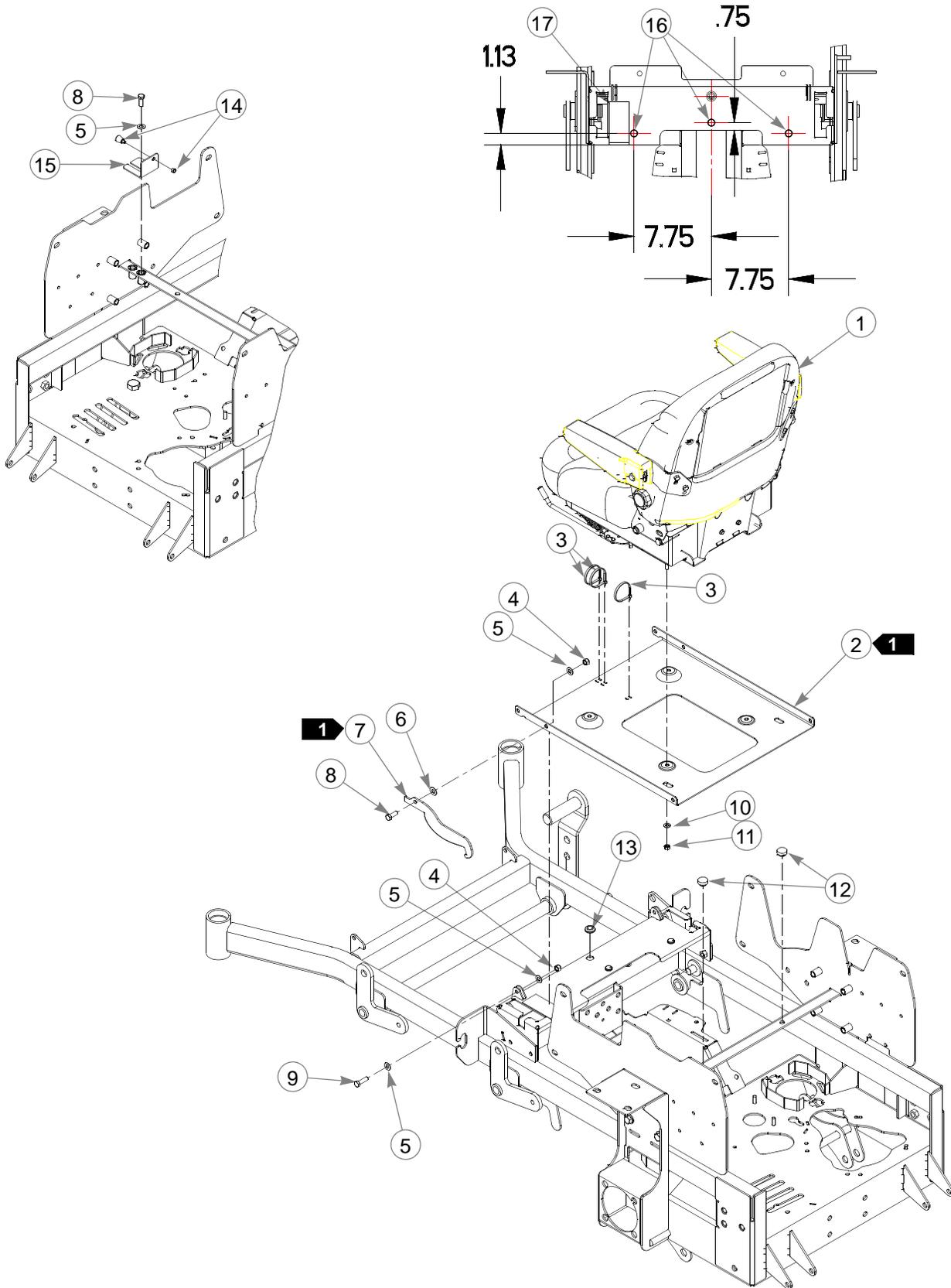


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**NOTES:**

1. Spring length after tensioning belt. Measure spring from outside of hook to outside of hook.
2. Route belt as shown.

# Seat Installation



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## **Seat Installation**

<b>INDEX NO.</b>	<b>SERVICES PART NO.</b>	<b>MFG. PART NO.</b>	<b>QTY</b>	<b>DESCRIPTION</b>
1	793661	793661	1	MICHIGAN SEAT
2	350041	350041	1	SEAT PAN
3	000331	000331	3	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
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

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### **NOTES:**

1. Must pivot freely.
2. Service parts available for Michigan Standard seat;

<b><u>PART NO.</u></b>	<b><u>DESCRIPTION</u></b>
793307	SLIDE KIT
793315	SEAT SWITCH
793331	ARMREST KIT (OPTIONAL SQUARE STYLE)
793349	L.H. ARMREST ASSMBLY (SQUARE STYLE W/ BRACKETS)
793356	R.H. ARMREST ASSMBLY (SQUARE STYLE W/ BRACKETS)
797456	ARMREST KIT (OPTIONAL ROUND STYLE)
767464	L.H. ARMREST ASSMBLY (ROUND STYLE W/ BRACKETS)
797472	R.H. ARMREST ASSMBLY (ROUND STYLE W/ BRACKETS)
797480	ONE ARMREST ONLY (ROUND STYLE W/O BRACKET)
793273	ARMREST STOP ASSY

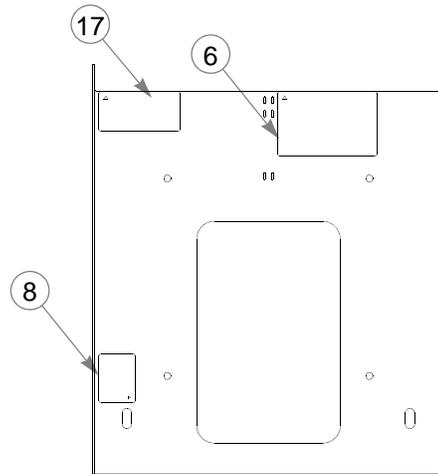
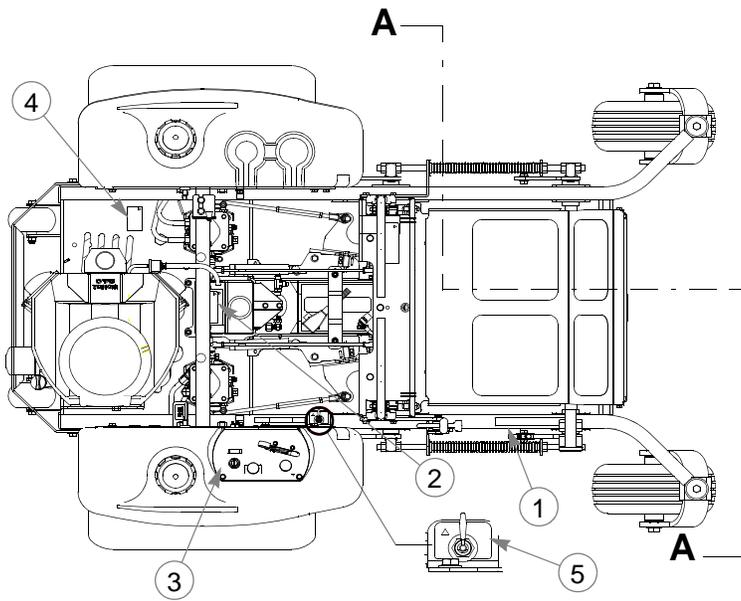


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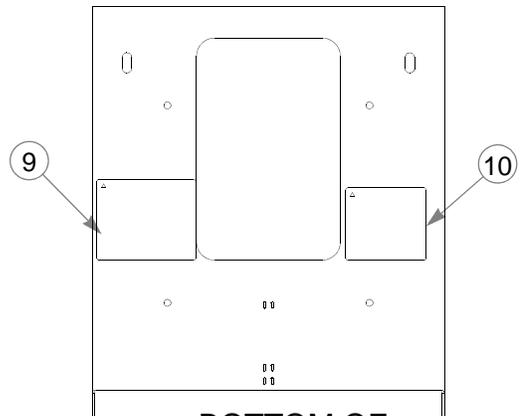
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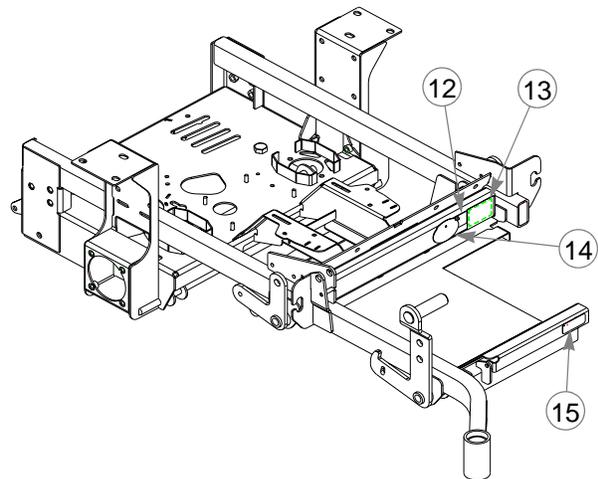
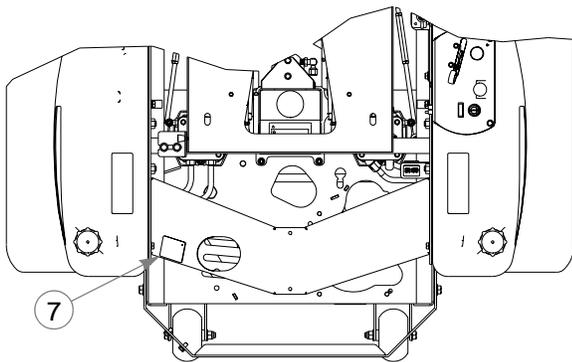
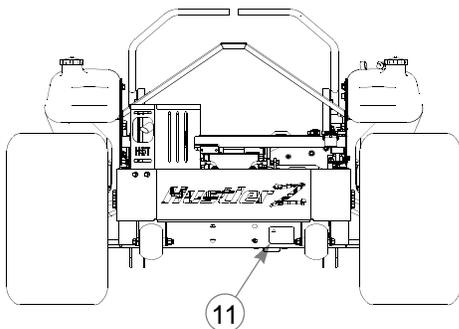
# Tractor Decals



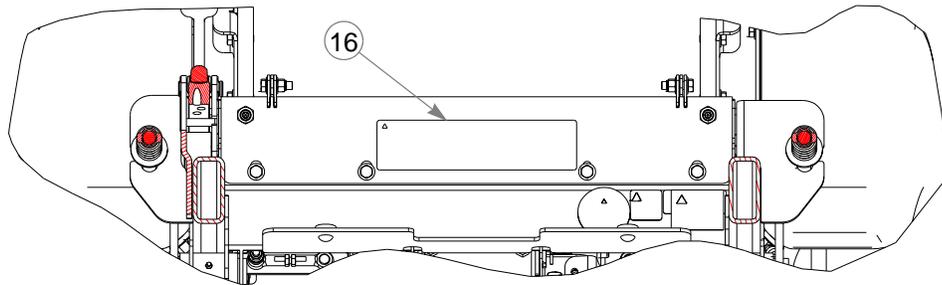
TOP OF SEAT PAN



BOTTOM OF SEAT PAN



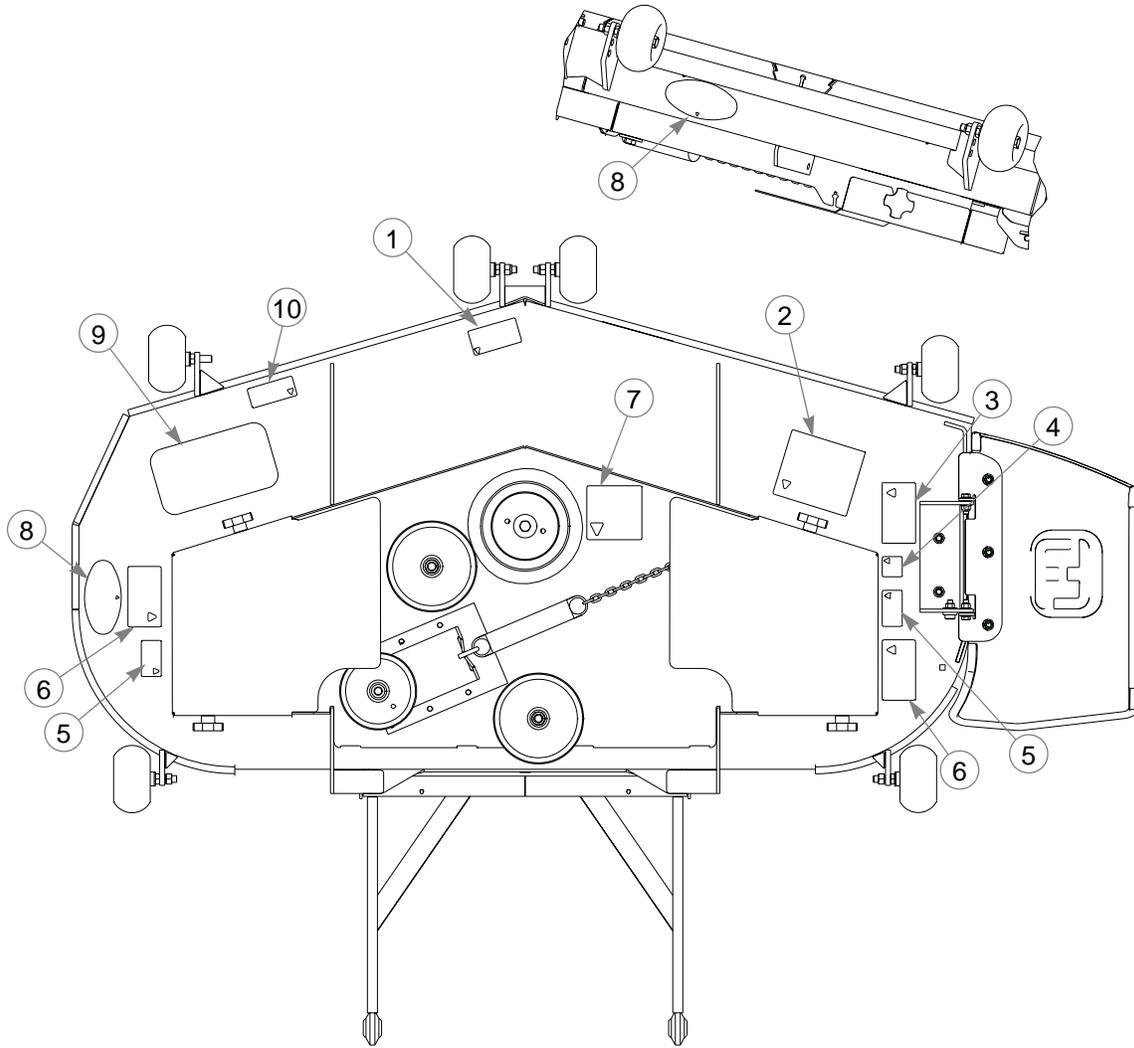
# Tractor Decals



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 (SEPARATE CHOKE)
4	727008	727008	1	HYD PRESSURE DECAL
5	791830	791830	1	FUEL INDICATOR DECAL
6	782136	782136	1	Z OPERATION DECAL
7	788968	788968	1	ENGINE COMPARTMENT 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	786426	786426	1	HUSTLER Z ID DECAL
17	600899	600899	1	PUMP BELT WARNING DECAL

## NOTES:

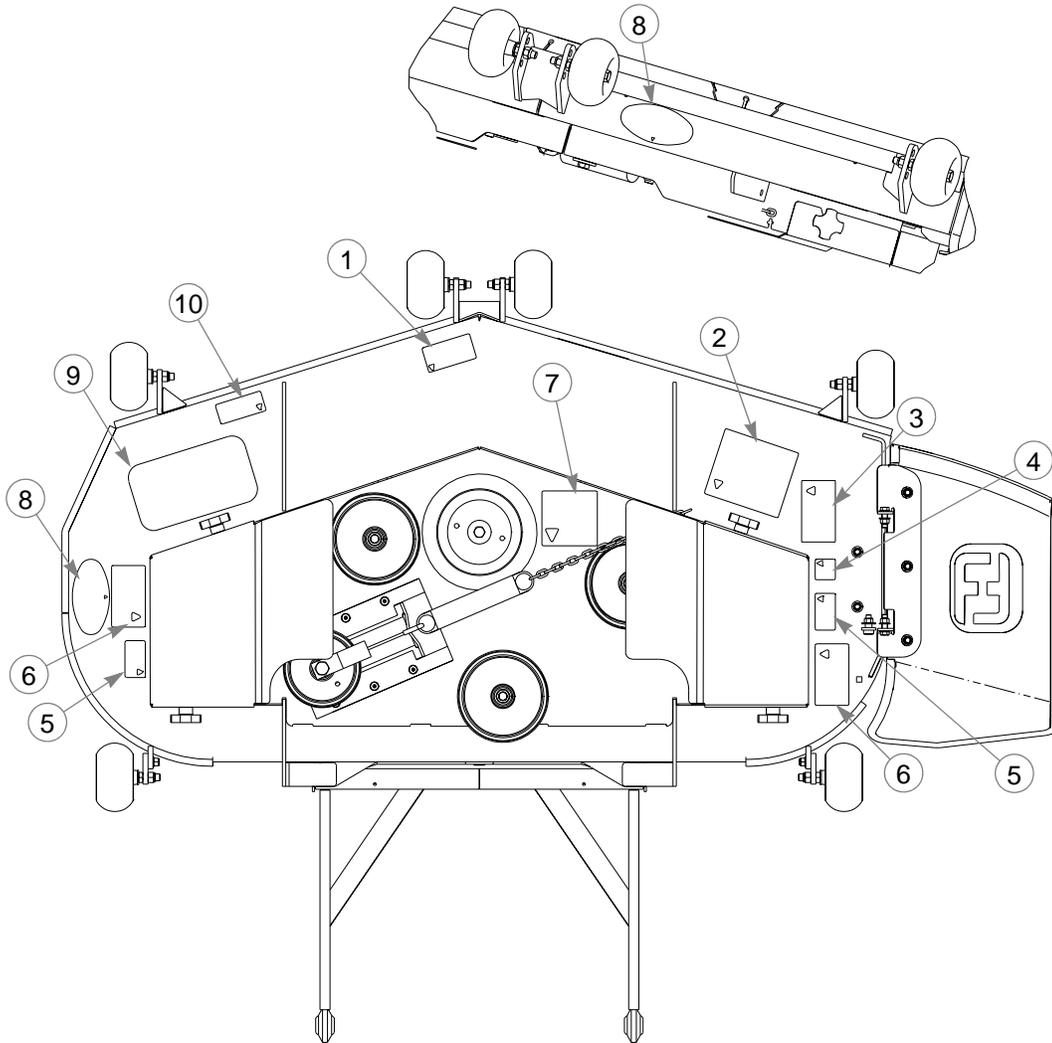
# 66" Deck Decals



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	799189	799189	1	66" SIDE DISCHARGE DECK ID DECAL
2	760637	760637	1	MOWER DECK QUICK REFERENCE DECAL
3	727420	727420	1	DEFLECTOR SHIELD DECAL
4	727172	727172	1	"MADE IN U.S.A." DECAL
5	727453	727453	2	BELT & PULLEY DECAL
6	727438	727438	2	WHIRLING BLADES DECAL
7	781419	781419	1	BELT ROUTING DECAL
8	799353	799353	2	DECK XR7 ID DECAL
9	359547	359547	1	5.00 X 9.00 STEP TREAD
10	797845	797845	1	FUSION DECAL

## NOTES:

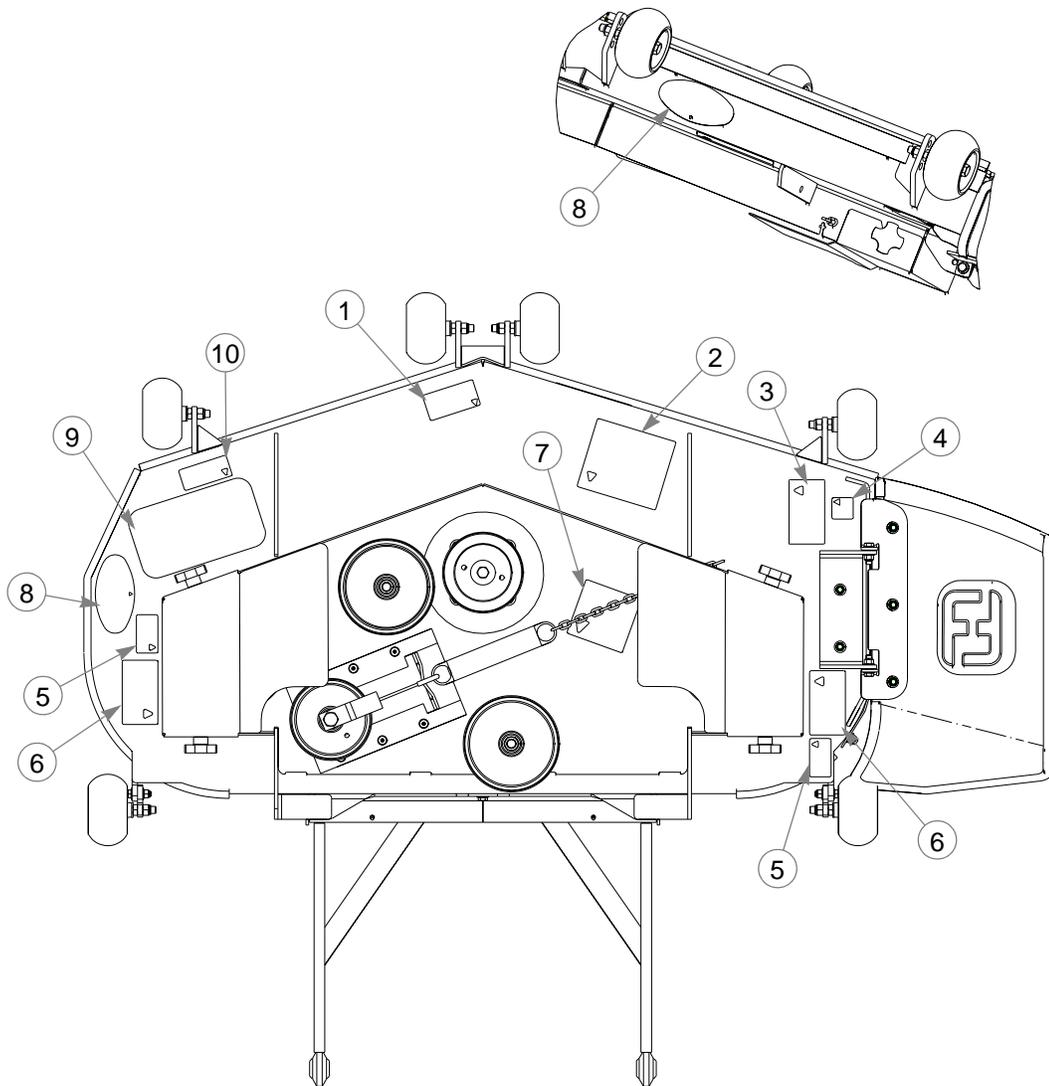
# 60" Deck Decals



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	786277	786277	1	60" SIDE DISCHARGE DECK ID DECAL
2	760637	760637	1	MOWER DECK QUICK REFERENCE DECAL
3	727420	727420	1	DEFLECTOR SHIELD DECAL
4	727172	727172	1	"MADE IN U.S.A." DECAL
5	727453	727453	2	BELT & PULLEY DECAL
6	727438	727438	2	WHIRLING BLADES DECAL
7	799395	799395	1	BELT ROUTING DECAL
8	799353	799353	2	DECK XR7 ID DECAL
9	359547	359547	1	5.00 X 9.00 STEP TREAD
10	797845	797845	1	FUSION DECAL

## NOTES:

# 54" Deck Decals



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	799171	799171	1	54" SIDE DISCHARGE DECK ID DECAL
2	760637	760637	1	MOWER DECK QUICK REFERENCE DECAL
3	727420	727420	1	DEFLECTOR SHIELD DECAL
4	727172	727172	1	"MADE IN U.S.A." DECAL
5	727453	727453	2	BELT & PULLEY DECAL
6	727438	727438	2	WHIRLING BLADES DECAL
7	781419	781419	1	BELT ROUTING DECAL
8	799353	799353	2	DECK XR7 ID DECAL
9	359547	359547	1	5.00 X 9.00 STEP TREAD
10	797845	797845	1	FUSION DECAL

## NOTES:

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## Chapter 10 Contents

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# Maintenance & Adjustment Safety



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 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 in front of and to the right of the seat, 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 knows 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.

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## ***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

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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, for those requiring one, is shown to help the operator understand the meanings of these decals.



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



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  
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  
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  
771436

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



Part Number  
727453

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



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  
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  
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.

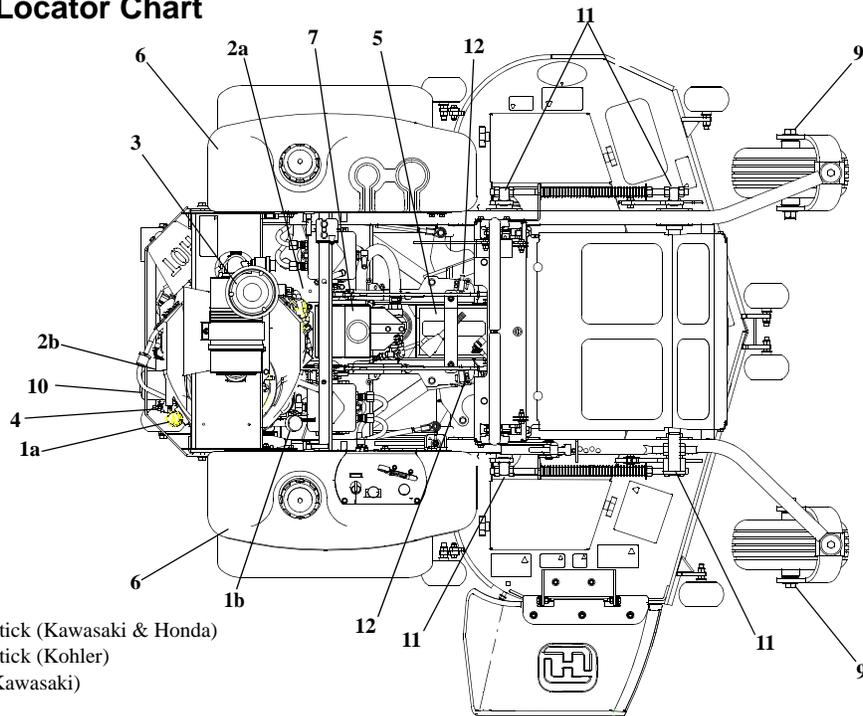


Part Number  
779280

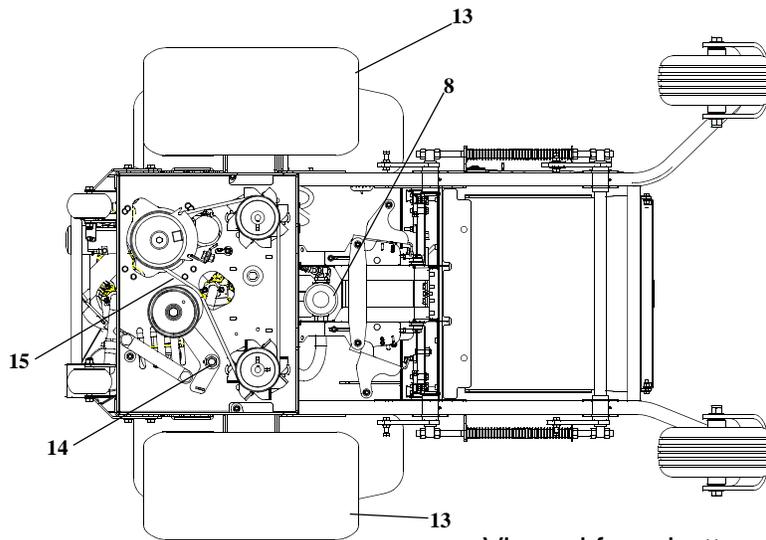
Hot surface!

# Maintenance

## Maintenance Locator Chart



- 1a. Engine Oil Fill & Dipstick (Kawasaki & Honda)
- 1b. Engine Oil Fill & Dipstick (Kohler)
- 2a. Fuel Filter (Honda & Kawasaki)
- 2b. Fuel Filter (Kohler)
- 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 (2)
- 13. Drive Tire
- 14. Pump Idler Zerk (1)
- 15. Pump Belt

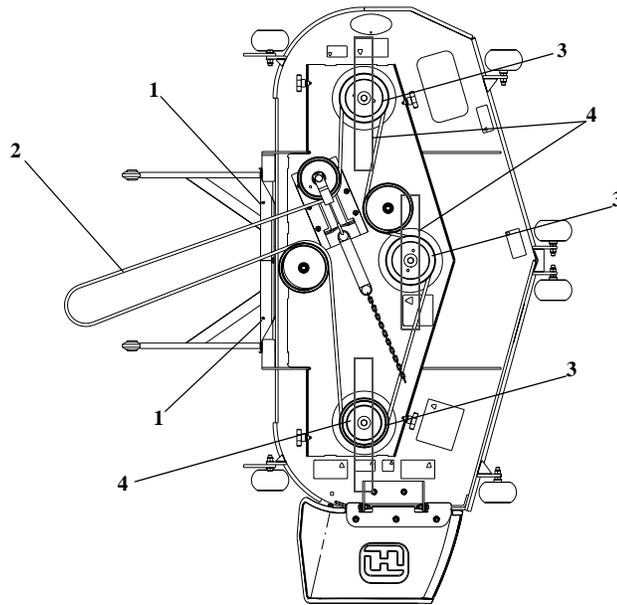


Viewed from bottom of tractor

FIG. 1

# Maintenance Locator Chart

54" & 66" XR7 deck



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

60" XR7 deck

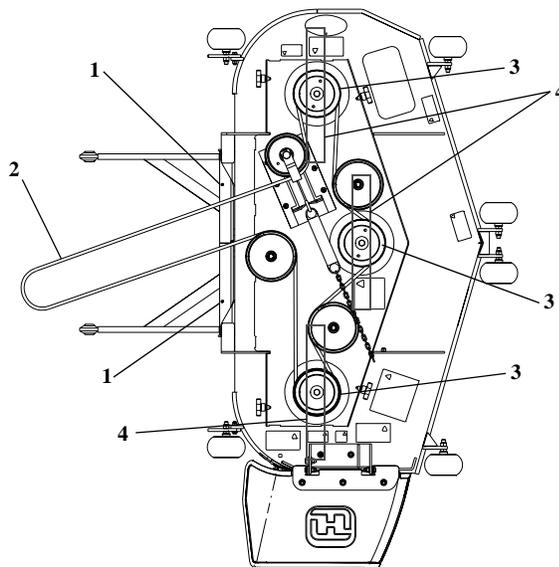


FIG. 2

SERVICE AT INTERVALS INDICATED	WEEKLY OR 50 HOURS	MONTHLY OR 100 HOURS	ANNUALLY OR 500 HOURS
Verify safety start interlock system		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 hours	
Clean air intake screen (5)		Daily or every 4 hours	
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 and 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 & regap spark plugs (a)		X	
Check pump and deck belt tension and 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 oil and filter (3)			X
Grease deck spindle housings			X
Replace spark plugs			X

**NOTES:**

1. 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.
2. Torque initially and after first 2 hours of operation.
3. Perform initial hydraulic filter change after 50 hours (one week) of operation.
4. Change engine oil filter per the engine manufacturer's recommendations. Refer to Engine Owner's Manual for recommendations and other maintenance items.
5. 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.
6. **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.
7. Check fuel line hoses, fuel valve and grommets 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 areas; minute dust particles 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, using jack stands or blocks, 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 are given below:

	<b>Ft-lbs.</b>	<b>Nm</b>
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.....	118.....	160.01

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

For all other torques refer to the various tractor parts manuals for standard torque charts.

**NOTE:** For engine torque values, see engine owner's manual.

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## Tires

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

Drive wheels .....8-12 psi (55-69 KPa)

Gauge wheels.....8-12 psi (55-69 KPa)

**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. 3.

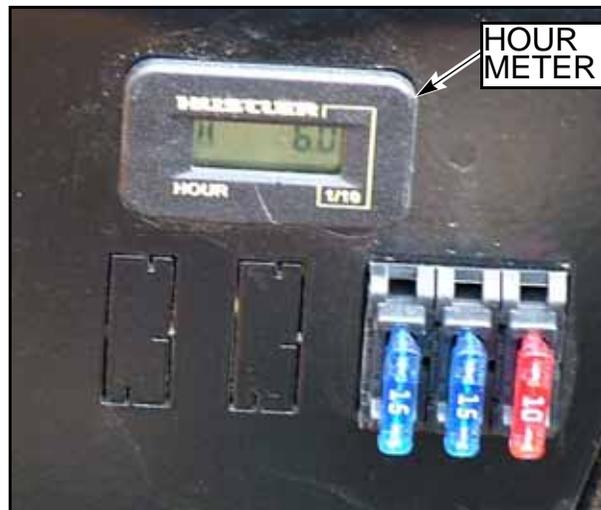


FIG. 3

## 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 into 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 platform FIG. 4.

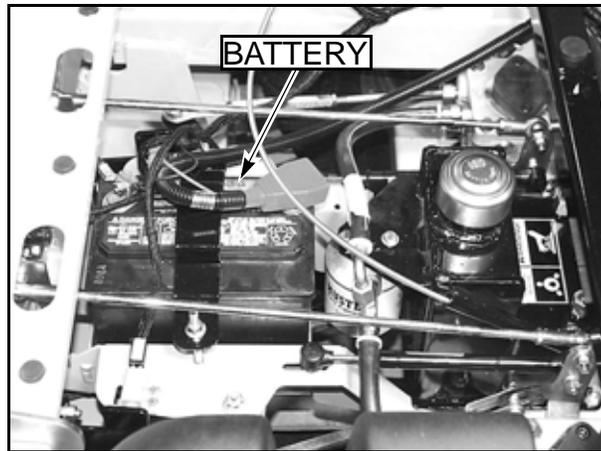


FIG. 4



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



**WARNING:** Avoid skin and clothing 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 drink the battery electrolyte.

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. Clean the battery terminals with a solution of four parts water and one part baking soda when they become corroded.



**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. Always **connect** the positive (red) battery cable before connecting the negative (black) 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 charging system should be performed by trained technicians only.

## 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. 5) 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.**

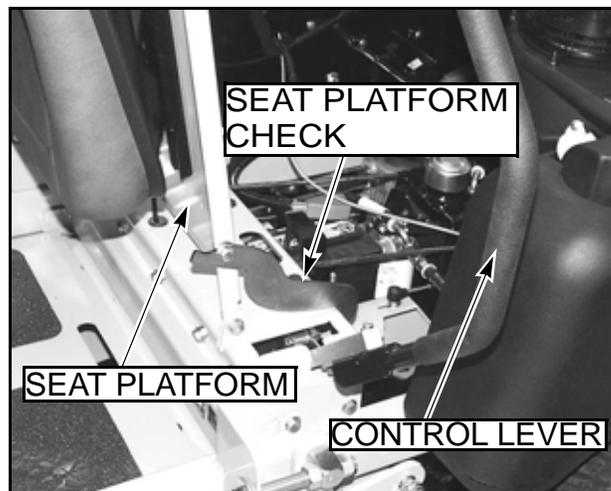


FIG. 5



**WARNING:** Always wear adequate eye protection when servicing the hydraulic 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. 6.

---

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. 6) 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.**

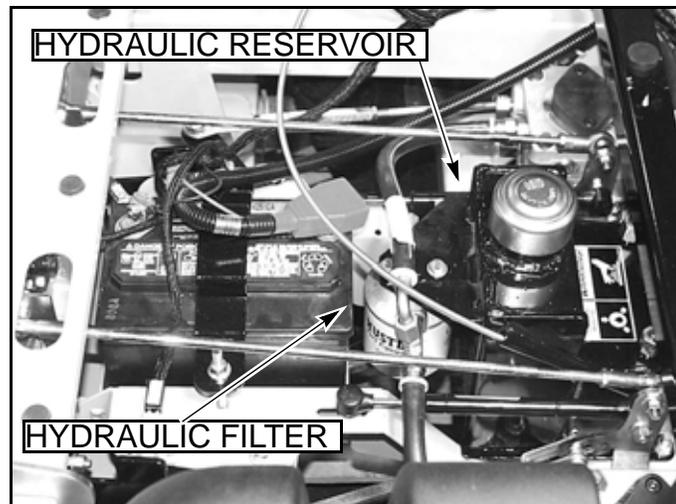


FIG. 6

**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.

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## 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.



FIG. 7

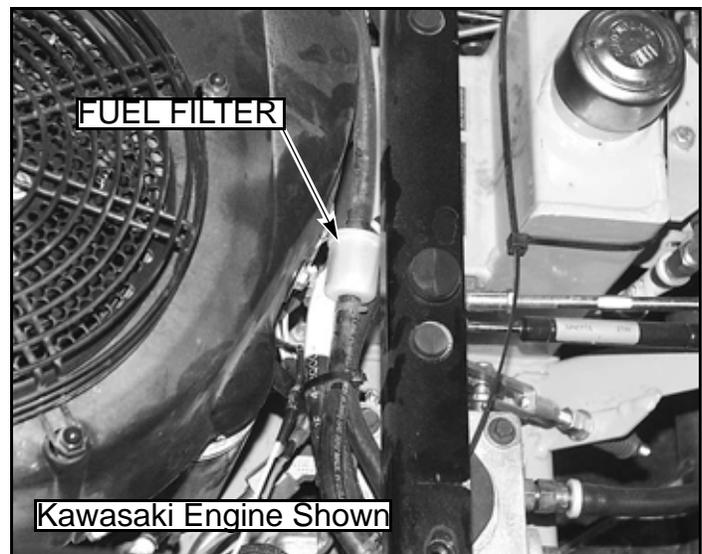


FIG. 8

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

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

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

Hustler Z tractors are equipped with a fuel shutoff valve located on the right fuel tank mount (FIG. 9). 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.

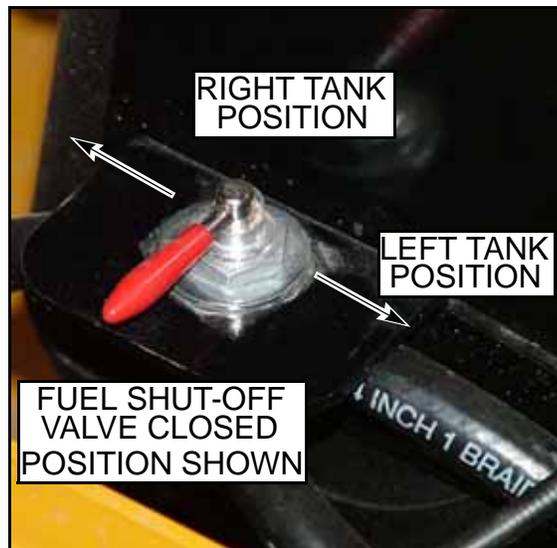


FIG. 9

### 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. 10). Tractor must be sitting 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.

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The oil drain and oil filter are located at the rear of the engine FIG. 10.

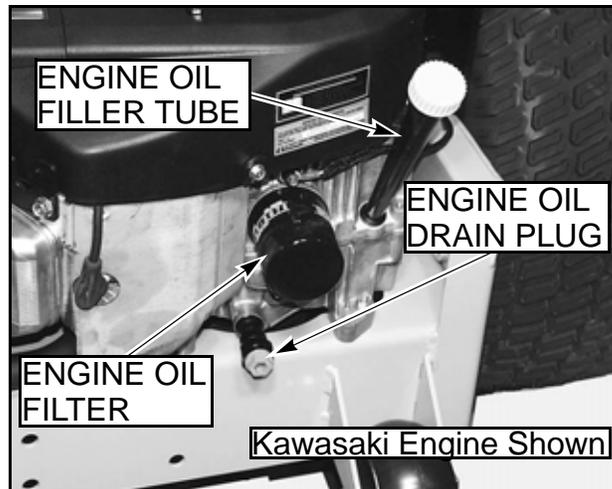


FIG. 10

### Engine air filter

Perform engine air filter maintenance per the scheduled maintenance chart. See “SERVICE AT INTERVALS INDICATED” on page 10.

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



FIG. 11

### 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 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. 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. 12

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



FIG. 12

## 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.

## Belt replacement

FIG. 13, FIG. 14 & FIG. 15 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.

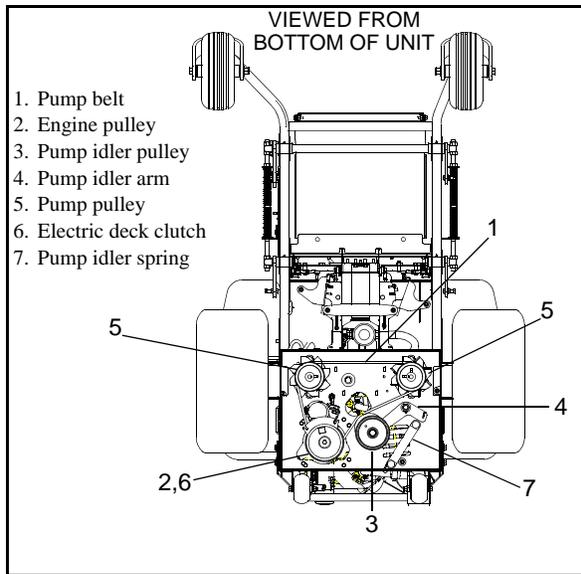


FIG. 13

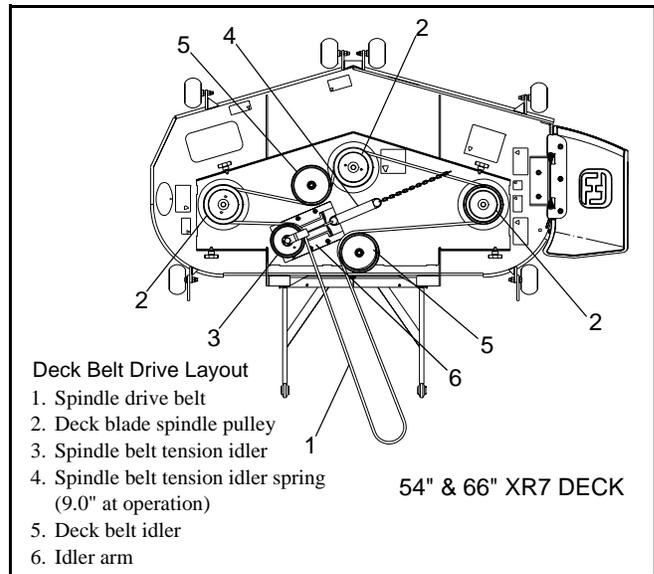


FIG. 14

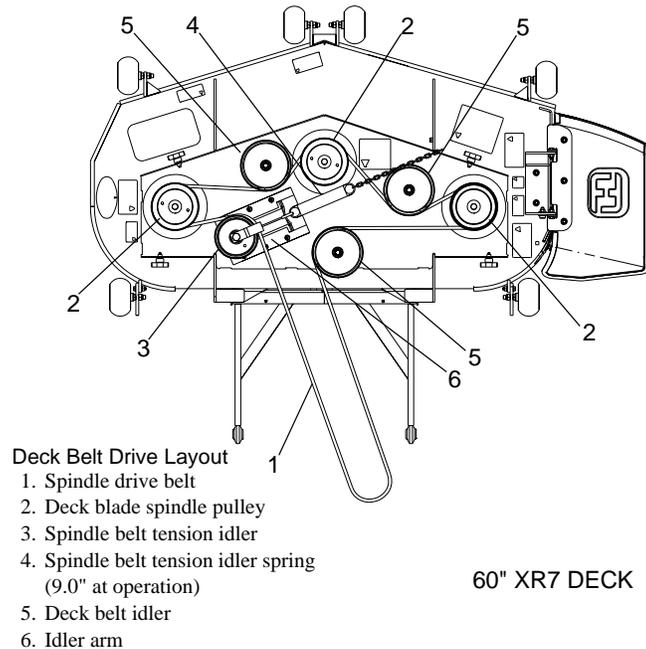


FIG. 15



**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.

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## 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:** INever 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:** INever 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:** IAlways wear adequate eye protection when grinding mower blades.

## Mower blade removal

Use a 15/16" wrench to remove the 5/8" cap screw holding the blade to the spindle shaft from underneath. Sharpen the blades on a grinder following pattern as shown FIG. 16. 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. 17 and FIG. 18. Replace any distorted blade.

Do not re-use spindle bolts which have stripped, worn or undercut threads. Torque bolts 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.

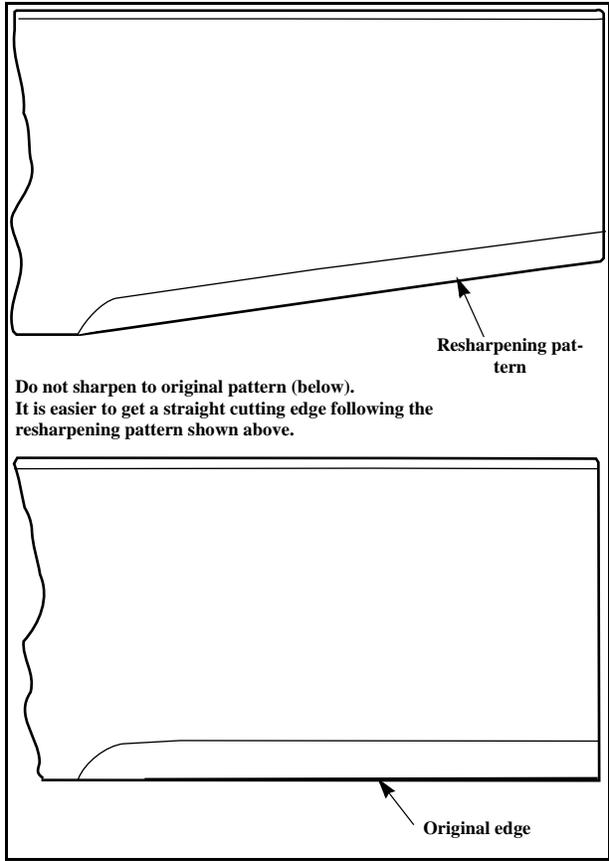


FIG. 16

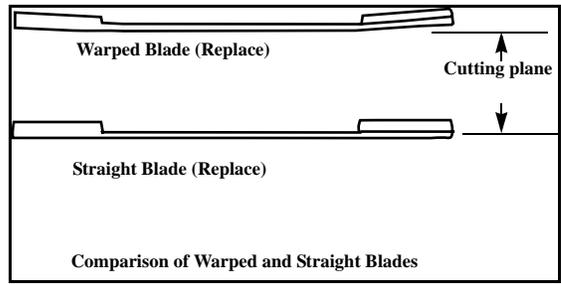


FIG. 17

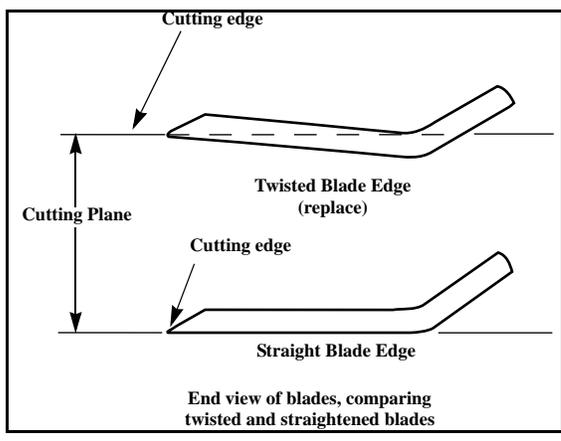


FIG. 18

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# Adjustment

## Introduction

Your Hustler 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 particles 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. 19. However, should the tractor begin to creep, the control lever linkage can be adjusted as follows:

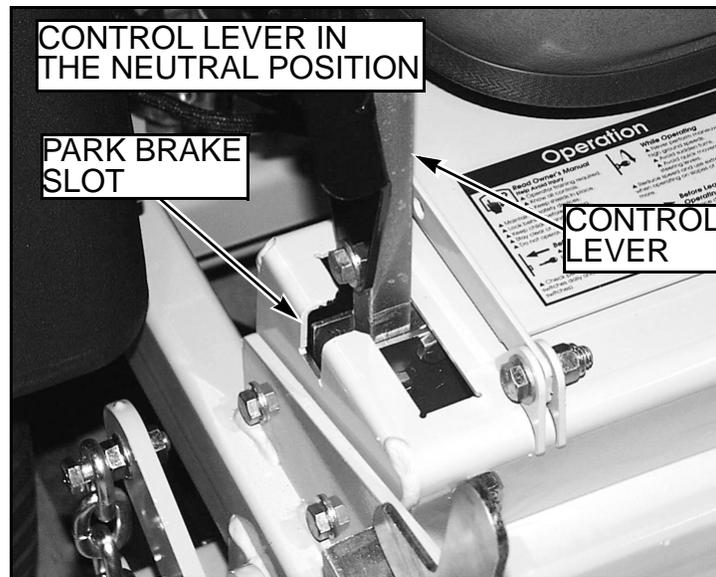


FIG. 19

## 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. 20.

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

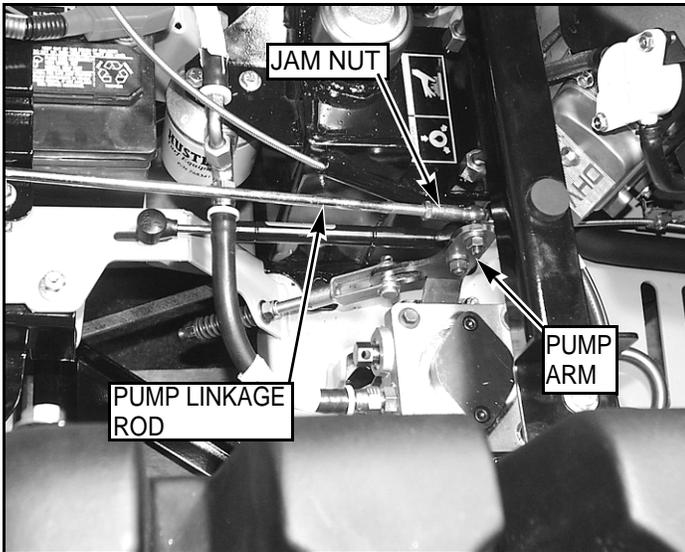


FIG. 20

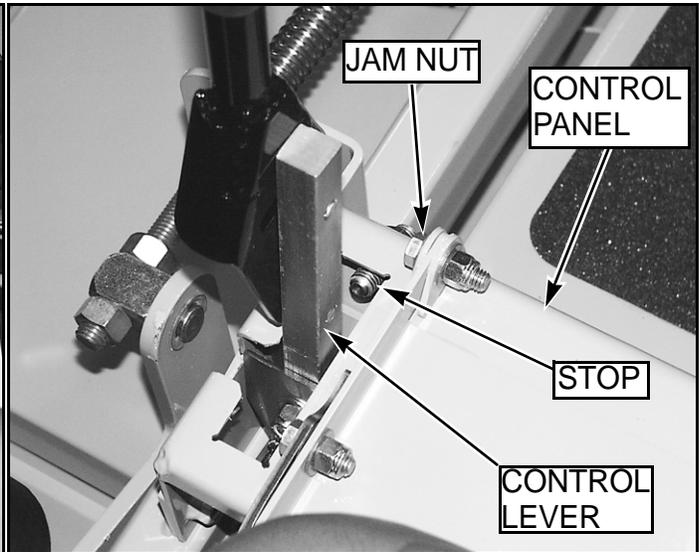


FIG. 21

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. 20. Repeat for the opposite side if necessary.

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

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. 20. Repeat for the opposite side if necessary.

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

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.
8. After adjusting for neutral it may be necessary to re-adjust the control lever stop FIG. 21.

## Control lever stops

The control lever stops FIG. 21 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. 22, 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.

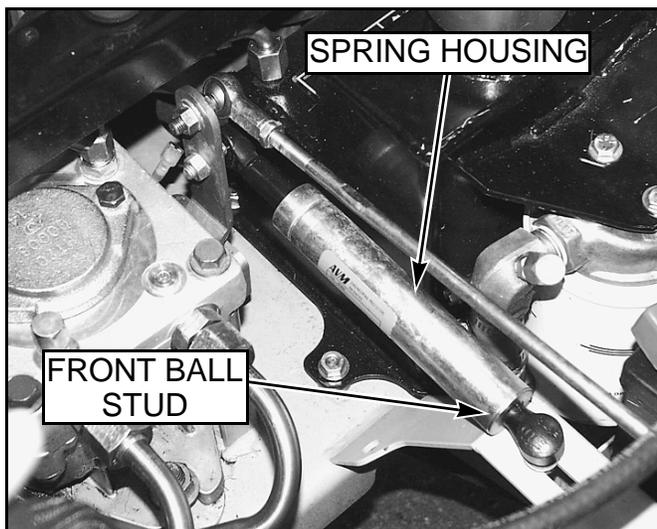


FIG. 22

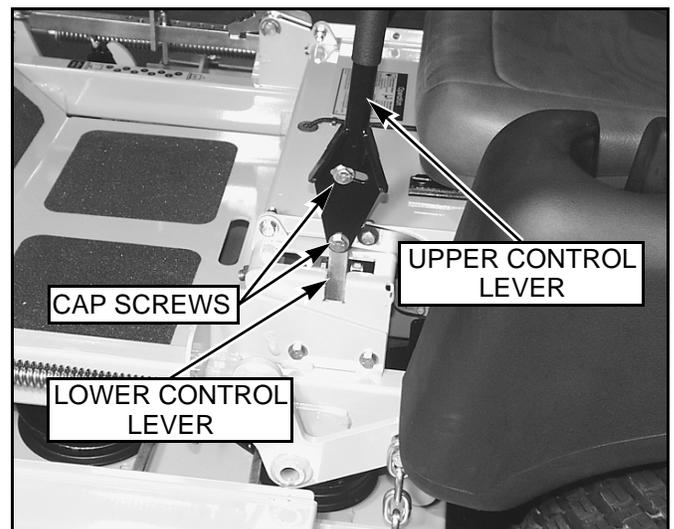


FIG. 23

## 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. 23, 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. 24

2. Raise and block the tractor up so the drive wheels are off of the floor.
3. Open the hydraulic pump's bypass valve FIG. 25, 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.

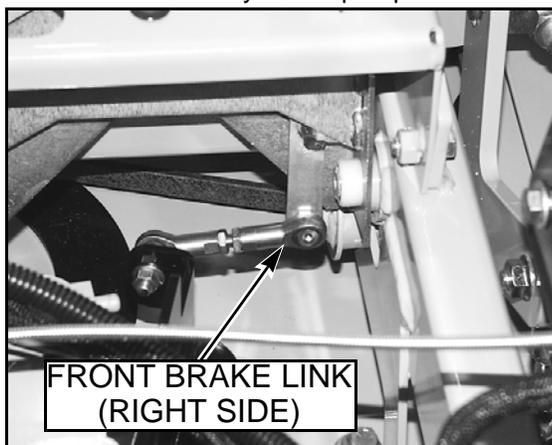


FIG. 24

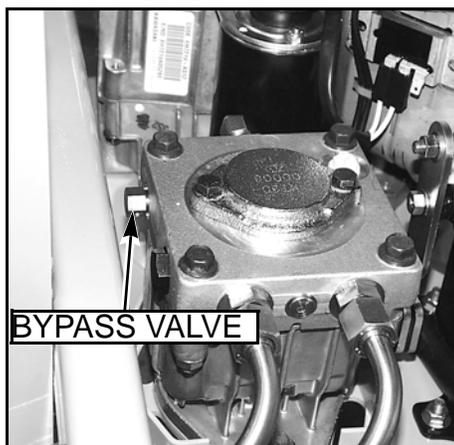


FIG. 25

4. Rotate the tire. The tire should rotate. Remember hydraulic oil resistance will prevent the tire from rotating freely even with the 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. 26.  
**NOTE:** When the control lever is against the outside edge of the 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. 27.

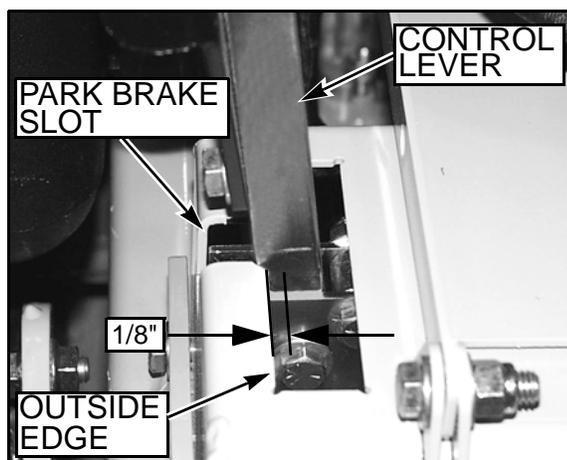


FIG. 26

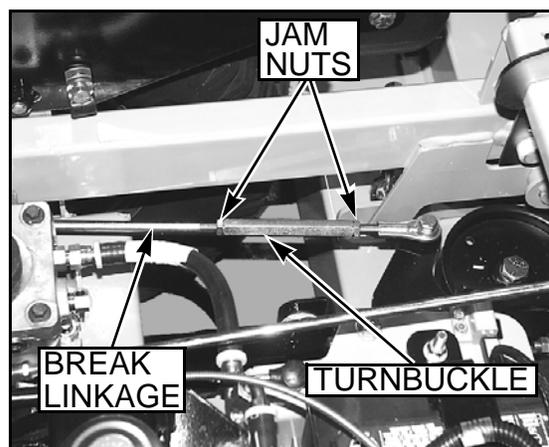


FIG. 27

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. 26. 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. 28. 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.

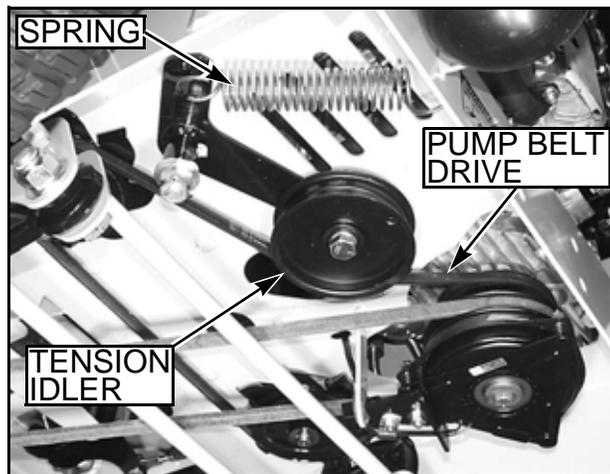


FIG. 28

## Deck drive belt adjustment

The spindle belt tension remains constant by means of a tension idler and spring FIG. 29. 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. 29. Installed spring length should be 9.0"  $\pm$  .3" (22.8 cm  $\pm$  .76 cm) originally with adjustments of .60" (15.2mm) per chain link FIG. 30.

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



FIG. 29

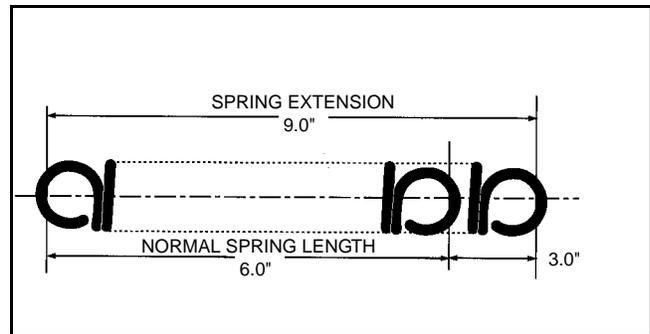


FIG. 30

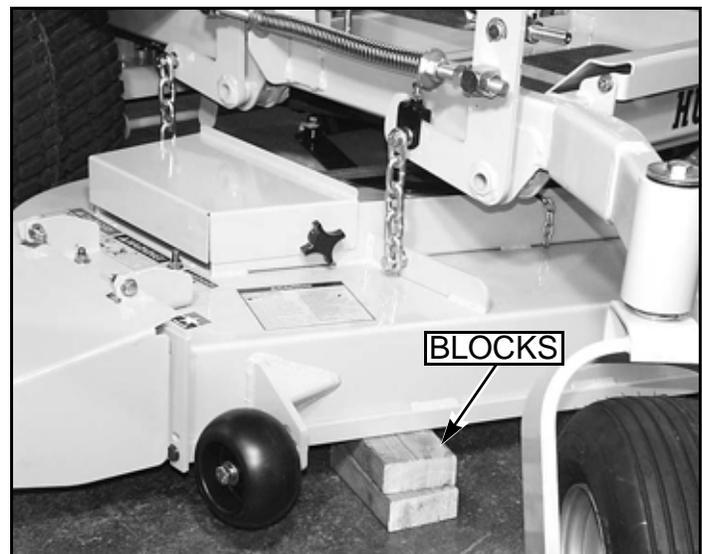


FIG. 31

### Engine RPM setting

The Hustler 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 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 - 12 psi  
 Gauge wheels tire pressure ..... 8 - 12 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" block under the back of the deck and a 4" block under the front of the deck FIG. 31. This will set the cutting height at 3-1/2".

**NOTE:** Back of deck will automatically be set 1/4" higher.

4. Set cutting height at 3-1/2" in the height indicator by placing the height adjusting stop in the 3-1/2" hole, and turning the height stop so that the pin side is against the stop handle FIG. 32
5. Clamp the height adjusting stop against the stop handle FIG. 32. 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.

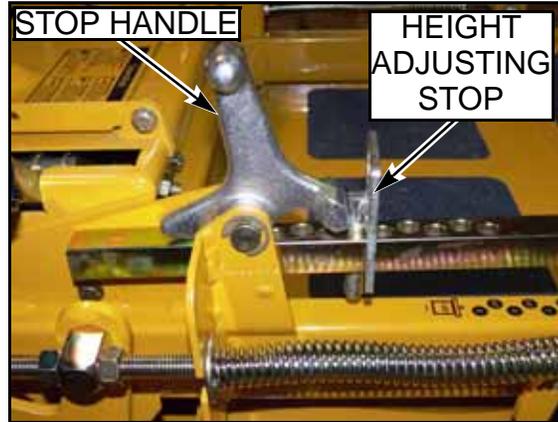


FIG. 32

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. 33, FIG. 34, FIG. 35.

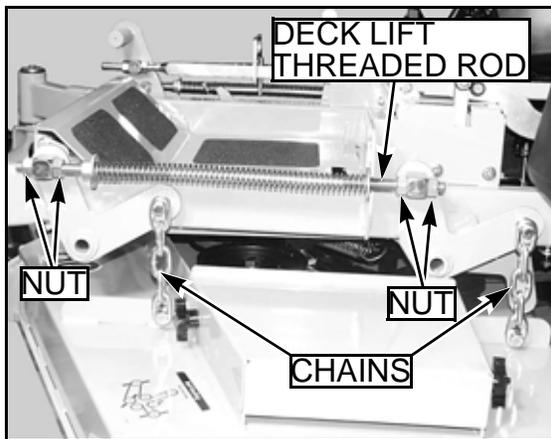


FIG. 33

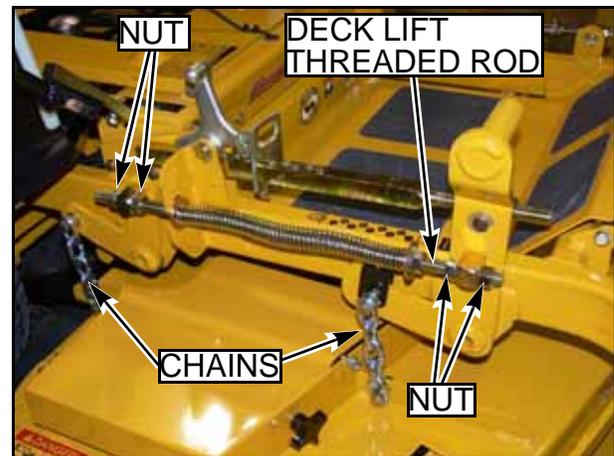


FIG. 34

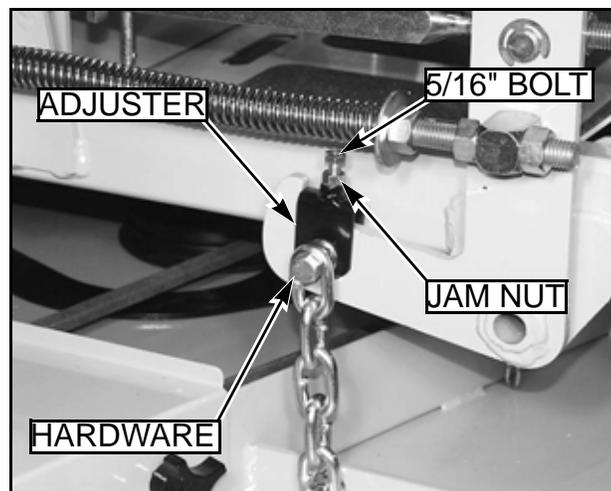


FIG. 35

7. Loosen the two nuts on the front of height indicator so that the foot pedal is free FIG. 36.
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. 37.
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 4" block.
12. While keeping the chain tight, tighten the nuts against the deck lift block on the height indicator rod FIG. 36.
13. Go to the right front of the tractor.
14. Loosen the 5/16" jam nut on the adjuster lift chain FIG. 35, and back the adjuster bolt out to allow the adjuster to move up and down freely.
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 4" block.
17. Tighten the adjuster bolt jam nut to prevent the adjuster bolt from moving FIG. 35
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. 34.
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. 33.
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. 37. Typical both sides.
28. When completed, all chains will be tight, and deck cutting height will be set to the deck height indicator.

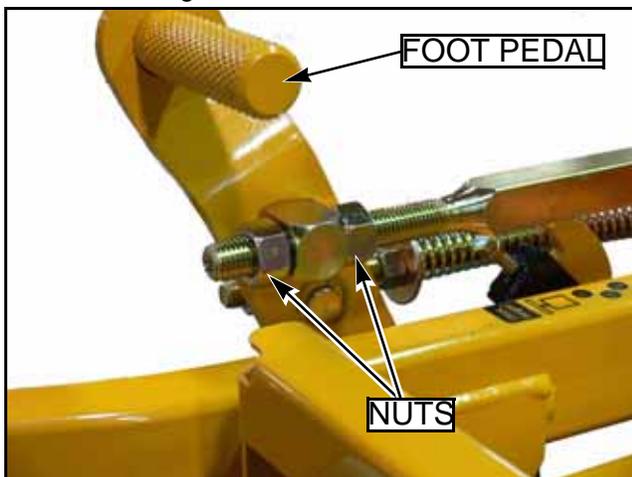


FIG. 36

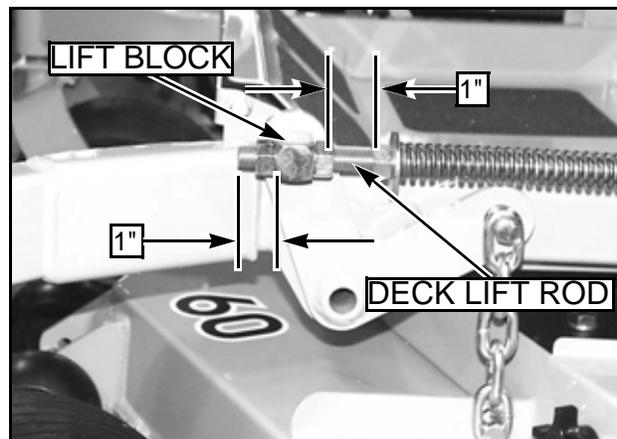


FIG. 37

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