

Hustler FasTrak Super Duty 36/42 & Mini Z 36/42 Parts Manual



HUSTLER®



Hustler Turf Equipment



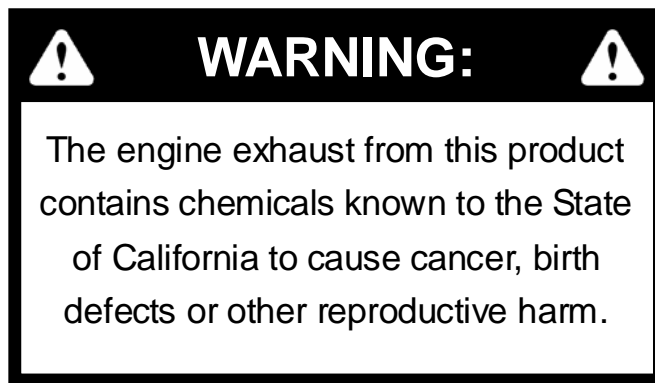
P.O. Box 7000



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.

Table of Contents

Chapter 1	
General Information	1-1
Chapter 2	
Frame Rivet Nut Installation	2-2
Anti-Rollover Bracket Assemblies	2-3
Footrest Assembly	2-4
Chapter 3	
Battery Installation.	3-2
Deck Lift Assembly	3-4
Hydro Transmission Installation	3-6
Steering and Brake Assembly.	3-10
Chapter 4	
Kawasaki Engine Installation	4-2
Fuel System Installation	4-6
Instrument Panel Installation.	4-8
Kawasaki Electrical Schematic (601218)	4-10
Chapter 5	
Front Wheel Assembly	5-2
Front Wheel Breakdown—786061	5-3
Drive Wheel Assembly	5-4
Chapter 6	
Deck Assembly 36" SN Prior to 10020000	6-2
Deck Assembly 36" SN Higher Than 10020000	6-4
Deck Pulley Assembly 36"	6-6
Deck Assembly 42" SN Prior to 10020000	6-8
Deck Assembly 42" SN Higher Than 10020000	6-10
Deck Pulley Assembly 42"	6-12
Spindle Assembly—783506	6-14
Chapter 7	
Deck Installation	7-2
Deck Belt Routing	7-3
Seat Installation.	7-4
Chapter 8	
Tractor Decals.	8-2
36" Deck Decals	8-4
42" Deck Decals	8-5
Chapter 9	
Assembly Pictures and Aids	9-2
Maintenance & Adjustment Safety	9-5
Maintenance	9-9
Adjustments	9-26
Index	i-1

Chapter 1

General Information

This Manual covers Hustler FasTrak Super Duty and Mini Z models: **928192 & 928200** with serial numbers higher than 07020000.

Frequently Ordered Parts

PART NO.	DESCRIPTION
788794	Pump Drive Belt
600726	Deck Drive Belt, 36"
600734	Deck Drive Belt, 42"
068478	Fuel Filter
797852	Air Filter Precleaner
761726	Air Filter Element
600976	ZT 2800 Oil Filter
772079	Engine Oil Filter

Service Literature

PART NO.	DESCRIPTION
107708	Owner's Manual
797795	Kawasaki 17/19 HP Kai Engine Manual

Note: When ordering parts, you must use the part number as shown for each part, not the index number. Always give the model and serial number to your parts and service representative.

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

Using this manual

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

Options Available From Your Dealer

PART NO.	DESCRIPTION
107654	Mulch Kit (36"/42" Deck)
794222	Gator Blade, 13.75"-GAT-F-CW
794230	Gator Blade, 20.50"-GAT-F-CW
794206	Mulch Blade, 13.75"-MUL-F-CW
794214	Mulch Blade, 20.50"-MUL-F-CW (60" Side Discharge Deck)
353961	Steering Extension Kit
107696	Hitch Kit

Hardware Description Codes & Abbreviations

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

ABBREVIATION	DESCRIPTION
CB	Carriage Bolt
CE	Clevis Pin
CP	Cotter Pin
CS	Cap Screw
CW	Cup Washer
FDRW	Fender Washer
FW	Flat Washer
HX	Hex Head
LW	Lock Washer
MB	Machine Bushing
MS	Machine Screw
NT	Nut
SC	Self Tapping Cap Screw
SH	Socket Head
SB	Shoulder Bolt
SS	Set Screw
OD	Outside Diameter
ID	Inside Diameter

Standard Torques

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

SIZE	FT-LBS	NM	SIZE	FT-LBS	NM
.250	8.2	11.1	M3	1	1.3
.312	17	23	M4	2.2	3
.375	30	40	M5	4.5	6.1
.438	48	65	M6	7.7	10.4
.500	73	99	M8	18.5	25
.562	105	143	M10	37	50
.625	145	200	M12	64	87
.750	260	350	M14	80	108.5
.875	420	565	M16	160	215
1.00	625	850	M20	320	435
			M24	555	750

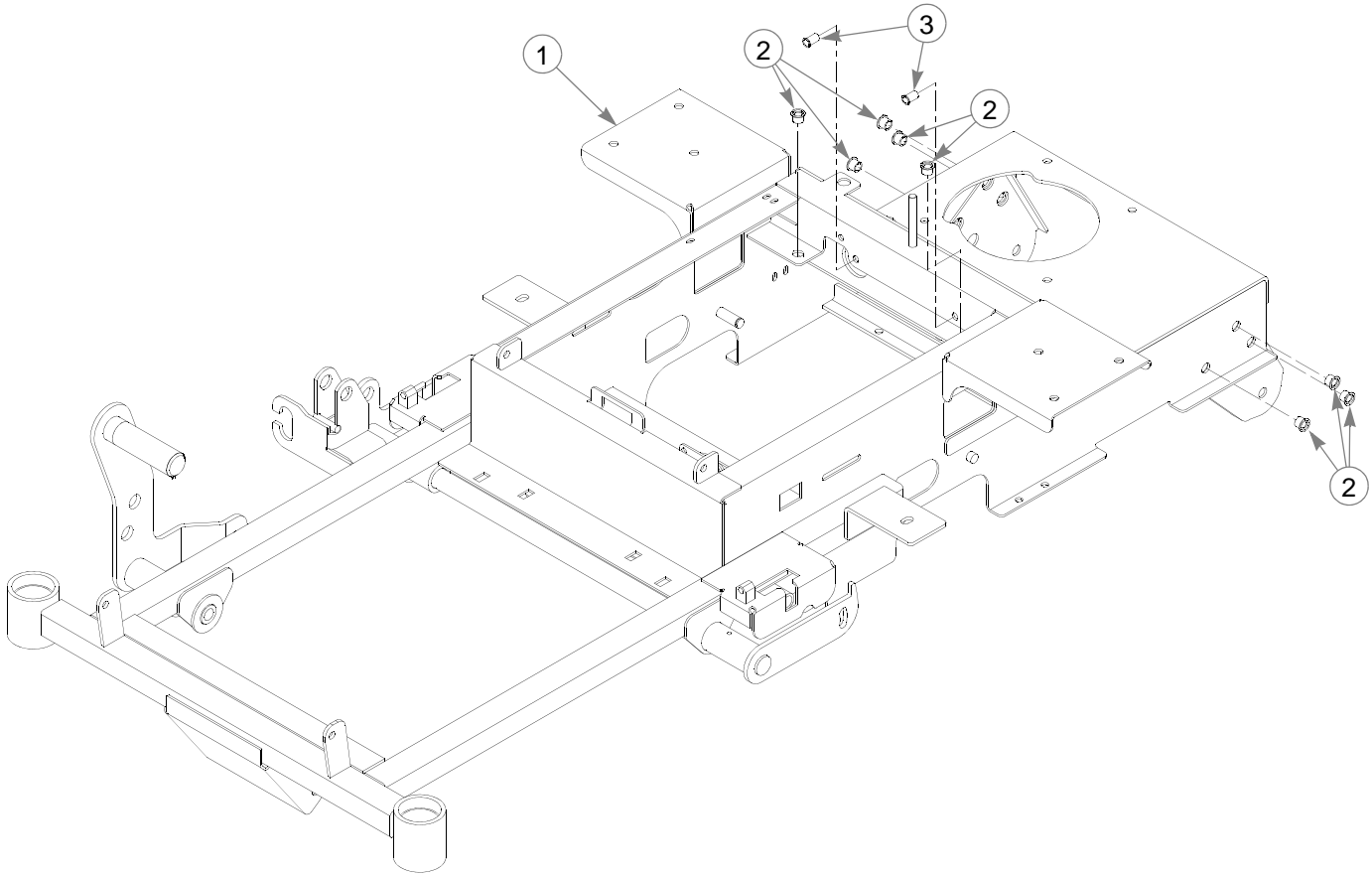
NOTE:

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

Chapter 2 Contents

Frame Rivet Nut Installation	2-2
Anti-Rollover Bracket Assemblies	2-3
Footrest Assembly	2-4

Frame Rivet Nut Installation

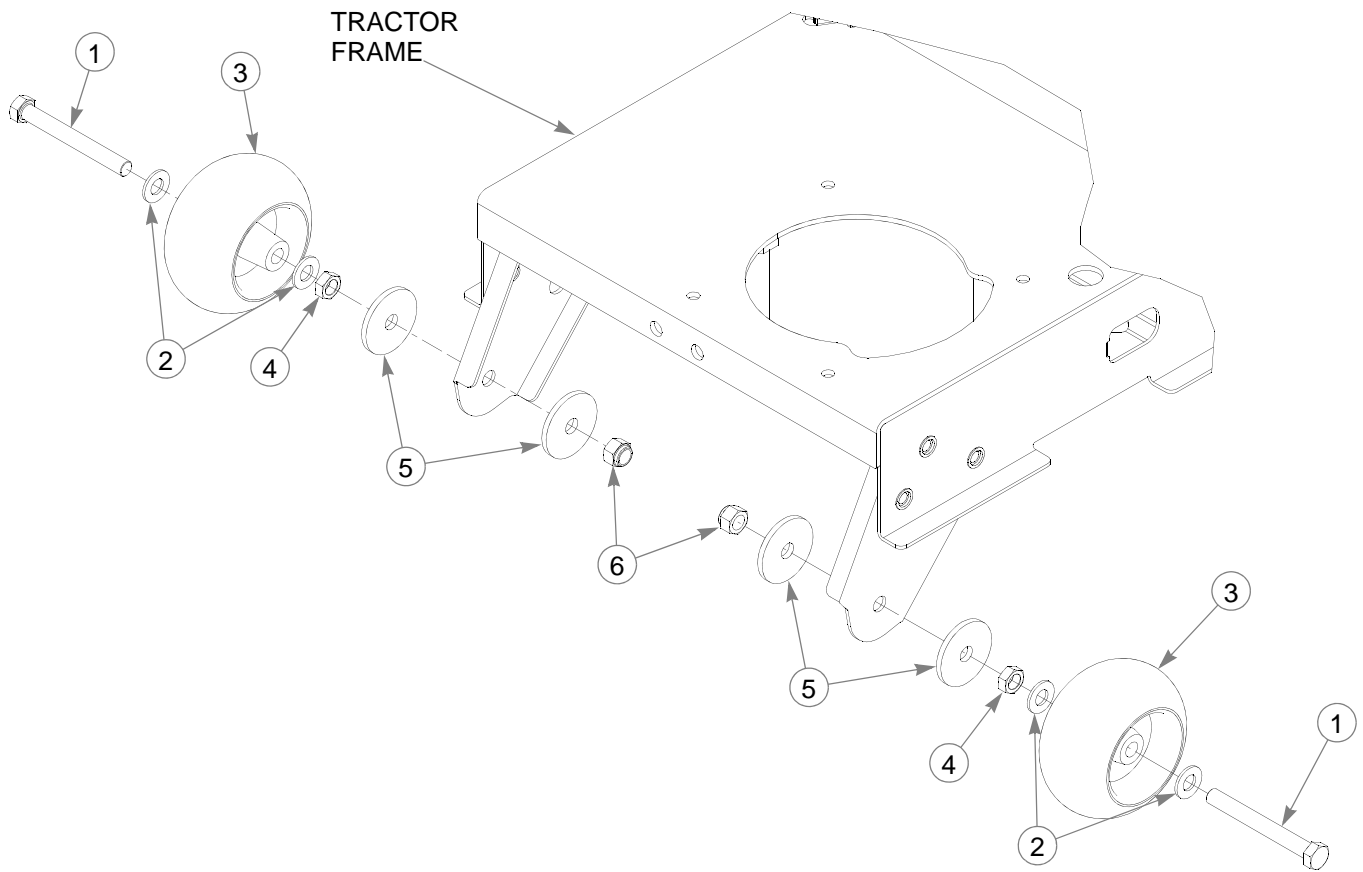


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	547851	107300	1	MINI Z 36" FRAME
	547869	107318	1	MINI Z 42" FRAME
2	808493	808493	8	3/8-16 THREAD RIVET NUT
3	808477	808477	2	1/4-20 THREAD RIVET NUT

NOTES:

1. Service part frames include rivet nuts .

Anti-Rollover Bracket Assemblies

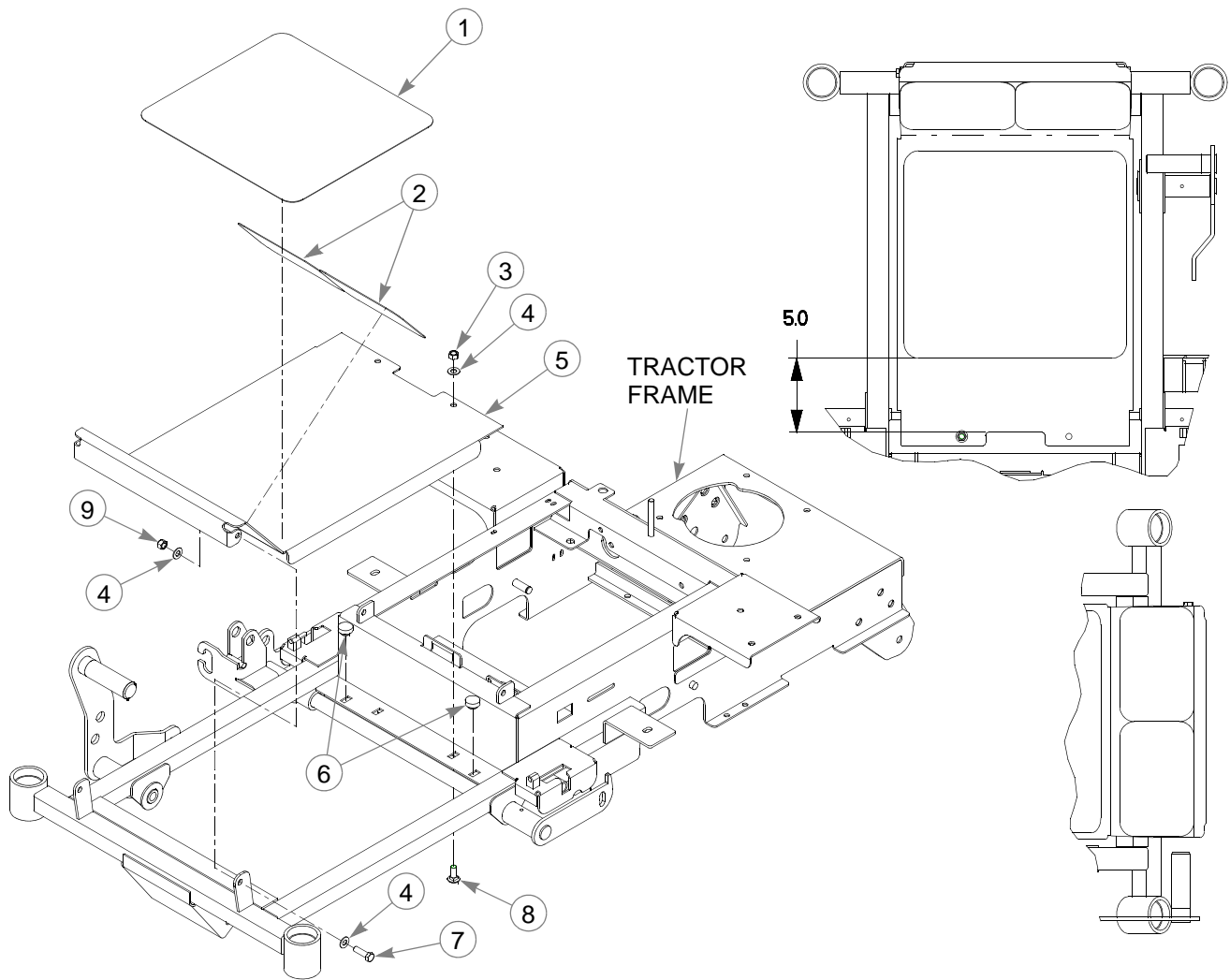


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	781708	N/A	2	CS .500-13 X 4.25 HX G5
2	767962	N/A	4	FW .531 X 1.063 X .090 SAE
3	031997	N/A	2	ANTI-SCALP WHEEL
4	053199	N/A	2	NT .500-13 HX JAM ZNYC
5	344267	344267	4	FW .510 X 2.15 X .187 SPL
6	781567	781567	2	NT .500-13 HX GR8 ZNYC NL
1	788166	788166	2	ANTI SCALP WHEEL ASSEMBLY

NOTES:

1. Includes items 1 through 4.

Footrest Assembly



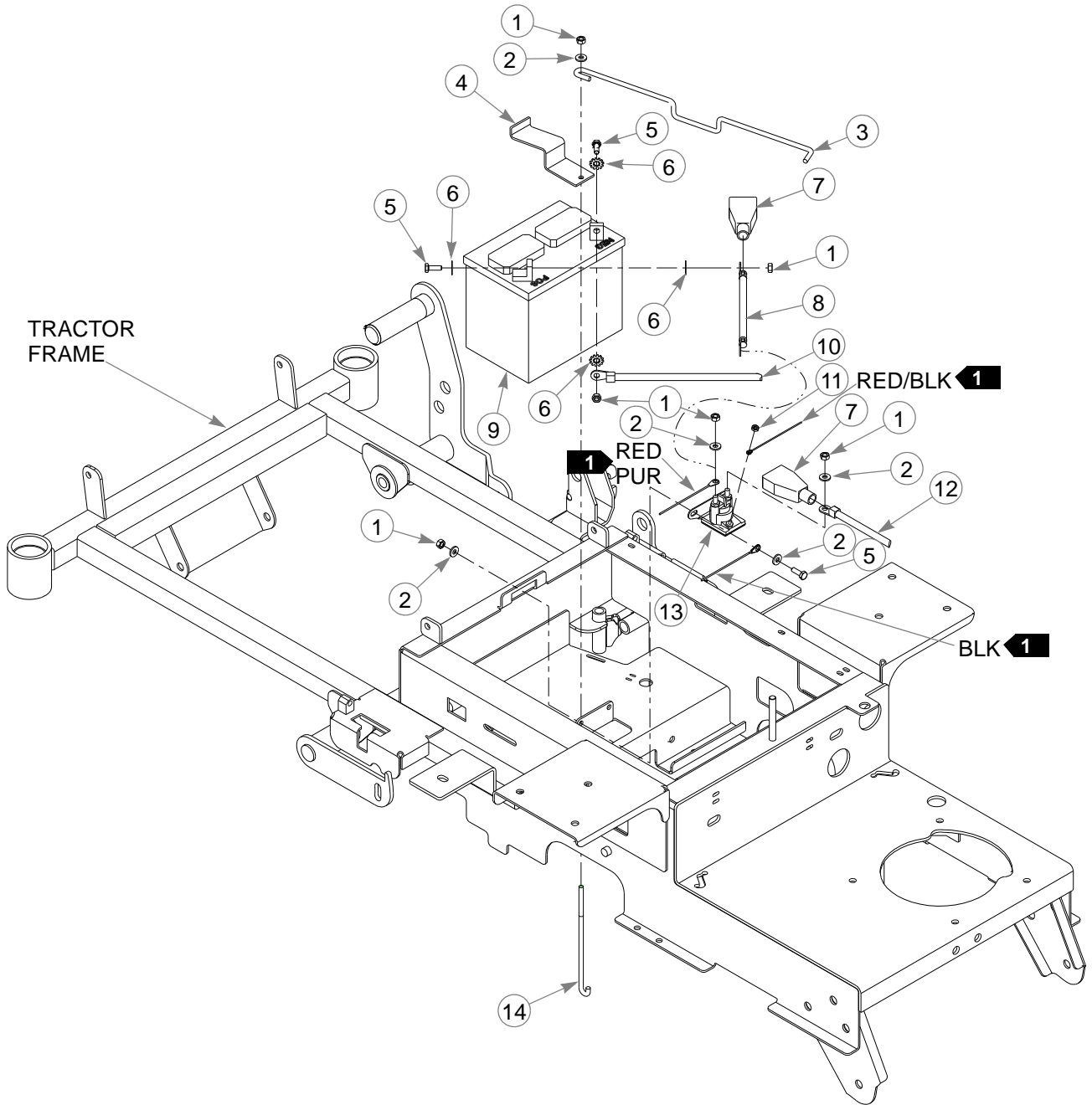
INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	600992	600992	1	STEP TREAD
2	785485	785485	2	UPPER STEP TREAD
3	054502	054502	2	NT .375-16 HX GRD 5 ZNYC
4	767954	767954	6	FW .406 X .812 X .060 SAE
5	107637	107637	1	36" MINI Z FLOORPAN
	107011	107011	1	42" MINI Z FLOORPAN
6	781880	781880	2	.500 X 1.00 X .31 BUMPER
7	052860	052860	2	CS .375-16 X 1.250 HX G5
8	025395	025395	2	CB .375-16 X 1.00 STD CD
9	086660	086660	2	NT .375-16 HXZY NL

NOTES:

Chapter 3 Contents

Battery Installation	3-2
Deck Lift Assembly	3-4
Hydro Transmission Installation.	3-6
Steering and Brake Assembly	3-10

Battery Installation



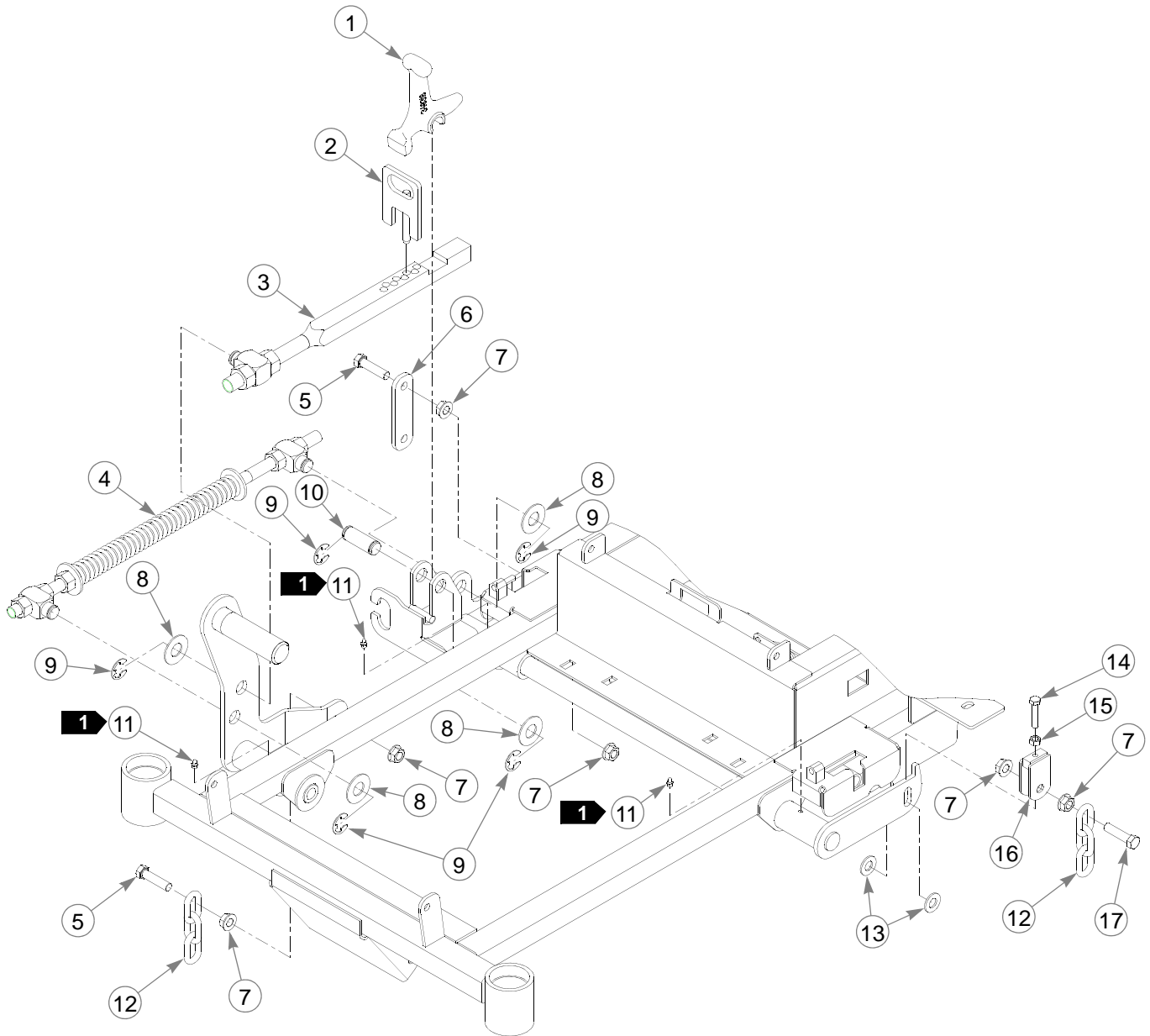
Battery Installation

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	024927	024927	7	NT .250-20 HX GR.5 ZNYC
2	768515	768515	7	FW .281 X .625 X .051/.080 HD ZNYC
3	601212	601212	1	BATTERY CABLE SUPPORT
4	107631	107631	1	MINI Z BATTERY STRAP
5	055939	055939	4	CS .250-20 X .750 HX G5
6	029868	029868	4	LW .250 INT-EXT TOOTH ZNYC
7	771428	771428	2	RED BATTERY CABLE BOOT
8	792762	792762	1	RED BATTERY CABLE
9	740696	740696	1	BATTERY VU1LH-8
10	786640	786640	1	NEGATIVE BATTERY CABLE
11	044255	044255	1	NT #10-32 HX ZN
12	786632	786632	1	RED BATTERY CABLE
13	030817	030817	1	STARTER SOLENOID
14	793489	793489	1	BATTERY CLAMP ROD

NOTES:

1. Part of Wire Harness (797829).
2. Battery is not installed in export models.

Deck Lift Assembly



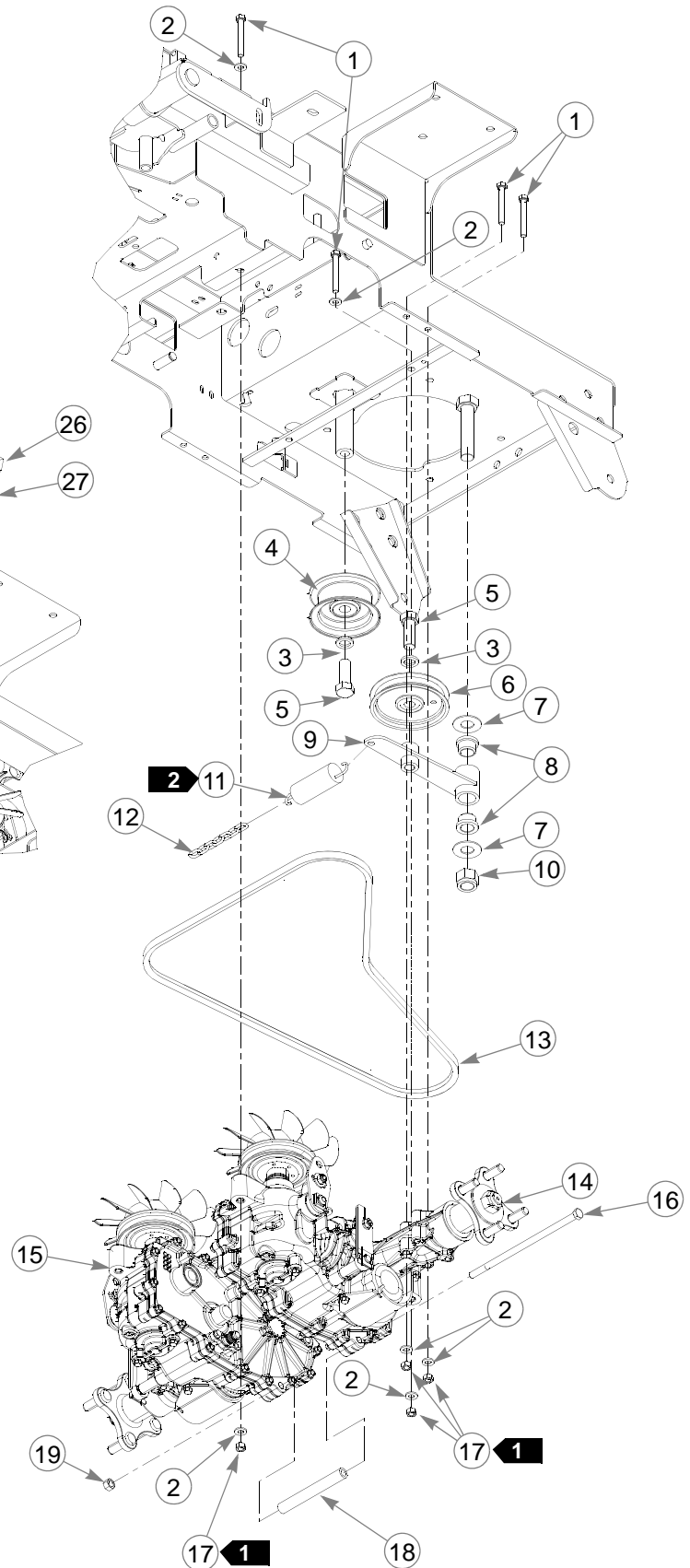
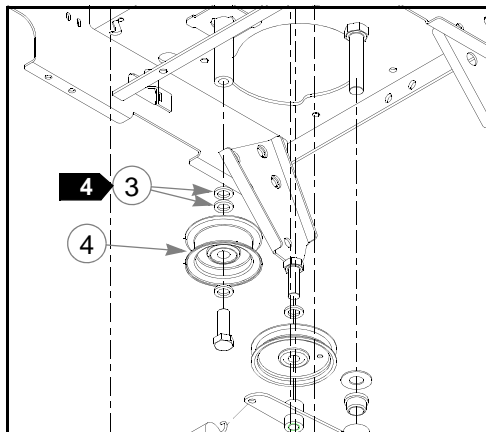
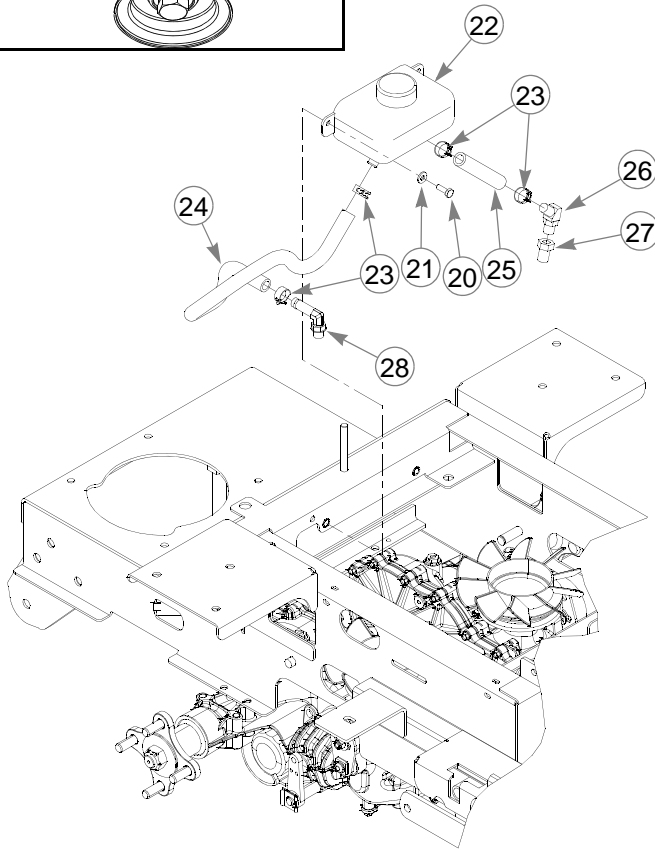
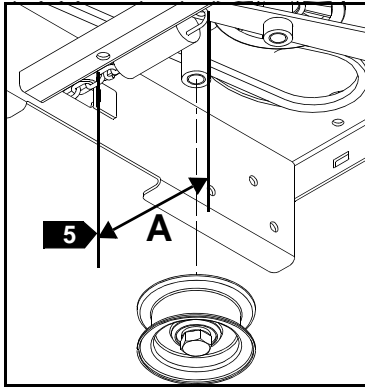
Deck Lift Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	348318	348318	1	STOP HANDLE
2	348284	348284	1	HEIGHT ADJUSTOR STOP
3	797969	797969	1	DECK HEIGHT INDICATOR ASSEMBLY
4	782995	782995	1	DECK LIFT SPRING ASSEMBLY
5	055749	055749	2	CS .437-14 X 1.75 HX G5
6	334045	334045	1	DECK LIFT LINK
7	704643	704643	6	NT .437-14 HX FLG ZNYC
8	025296	025296	4	FW .760 X 1.625 X .08 ZNYC
9	781294	781294	5	1.00 X .625 X .05 E CLIP
10	781229	781229	1	CE .750 X 2.25 X 1.75 HEADLESS
11	015495	015495	3	STRAIGHT GREASE FITTING
12	360131	360131	2	DECK LIFT CHAIN
13	767962	767962	2	FW .531 X 1.063 X .090 SAE
14	756270	756270	1	CS .312-18 X 1.50 FLTHR GR 5
15	034272	034272	1	NT .312-18 HX G5 ZNYC
16	348458	348458	1	DECK LEVELER YOKE
17	781831	781831	1	CS .437-14 X 1.75 FULTH

NOTES:

1. Apply grease to Zerks.

Hydro Transmission Installation



Hydro Transmission Installation

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	710087	710087	8	CS .312-18 X 2.50 HX G5
2	768523	768523	12	FW .343 X .687 X .051/.080 HD ZNYC
3	028118	028118	2	FW .625 X 1.00 X .134 ZNYC
4	601162	601162	1	3.06" STEEL IDLER PULLEY
5	025007	025007	2	CS .625-11 X 1.75 HX G5
6	786848	786848	1	IDLER PULLEY
7	025296	025296	2	FW .760 X 1.625 X .08 ZNYC
8	781153	781153	2	UHMW BUSHING
9	324046	324046	1	HYDRO IDLER ARM
10	061101	061101	1	NT .750-10 HXZY NL
11	036384	036384	1	SPRING 1/4 COIL PL 1.23
12	364315	364315	1	SPRING CHAIN
13	788794	788794	1	PUMP BELT
14	601197	601197	1	ZT 2800, 24.74:1 LH TRANS
15	601196	601196	1	ZT2800, 24.74:1 RH TRANS
16	600965	600965	1	CS .375-16 X 8.50 G5 HX ZN
17	034272	034272	8	NT .312-18 HX G5 ZNYC
18	107633	107633	1	TRANSMISSION SPACER
19	054502	054502	1	NT .375-16 HX GRD 5 ZNYC
20	055939	055939	2	CS .250-20 X .75 HX G5
21	768515	768515	2	FW .281 X .625 X .051/.080 HD ZNYC
22	600759	600759	1	OVERFLOW TANK ASSEMBLY
23	601474	601474	4	SPRING CLAMP, 3/4" DIA.
24	601055	601055	1	OVER FLOW HOSE RS
25	107644	107644	1	OVERFLOW HOSE 4.25" LONG
26	600880	600880	1	45° HYD FITTING
27	600881	600881	1	HYDRAULIC BUSHING
28	601219	601219	1	90 - 9/16 SAE FITTING

NOTES:

1. Torque to 17 ft.-lbs.
2. Spring length is 5.0".
3. Service parts available for hydro transmissions:

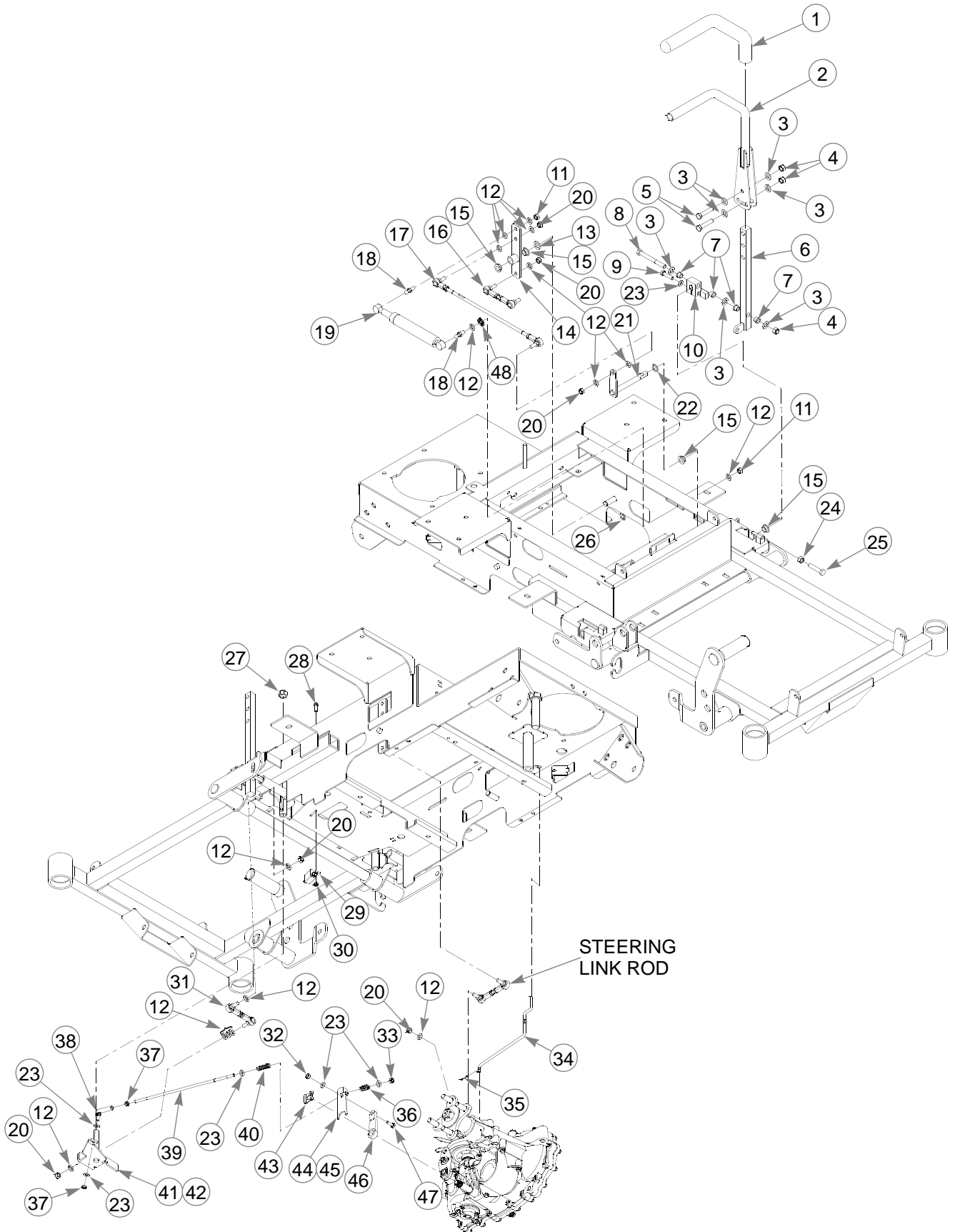
PART NUMBER	DESCRIPTION	PART NUMBER	DESCRIPTION
600972	BRAKE ARM RETAINER CLIP	600975	LEFT FILTER, GUARD
600767	OVERFLOW TANK CAP	601941	FAN PULLEY KIT
600970	4 BOLT HUB KIT	601221	ZT2800 BRAKE ARM
600974	RIGHT FILTER, GUARD	600976	OIL FILTER

4. Mowers with serial numbers prior to 07080622 require quantity (2) of item 3 (028118). Mowers with serial numbers between 07080622 and 07111003 require quantity (3) of the 028118 washers. Mowers with serial numbers higher than 07111003 do not require any washers in this location.

-
5. Spring length after tensioning should be 4.5"-5.5" (dimension A), measured from outside of hook to outside of hook.

This page intentionally left blank.

Steering and Brake Assembly



Steering and Brake Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	1	781260	N/A	2 STEERING BAR GRIP
	2	360487	360487	2 STEERING BAR
	3	767954	767954	14 FW .406 X .812 X .060 SAE
	4	086660	086660	6 NT .375-16 HX ZNYC NL
	5	705178	705178	4 CS .375-16 X 1.75 HX G5
	6	797753	797753	2 STEERING ARM
	7	797779	797779	8 IGUS BUSHING
	8	005108	005108	2 CS .375-16 X 3.50 HX G5 ZNYC
	9	079186	079186	2 CS .312-18 X 1.25 HX G5
	10	600896	600896	1 LH STEERING BLOCK
		600895	600895	1 RH STEERING BLOCK
	11	034272	034272	4 NT .312-18 HX G5 ZNYC
	12	768523	768523	30 FW .343 X .687 X .051/.080 HD ZNYC
	13	718288	718288	2 FW .516 X .875 X .09 ZNYC
	14	325464	325464	2 STEERING CONTROL ARM
	15	768259	768259	8 IGUS BUSHING
	16	794396	794396	2 STEERING LINK ROD ASSEMBLY
	17	793646	793646	2 PUMP ROD ADJUSTER ASSEMBLY
	18	781922	781922	4 DAMPER BALL STUD
	19	600221	600221	2 STEERING DAMPER
	20	023655	023655	12 NT .312-24 HXZY NL
	21	793612	793612	2 STEERING DRIVE ARM
	22	704775	704775	2 FW .531 X .812 X .060 ZNYC
	23	768515	768515	12 FW .281 X .625 X .051/.080 HD
	24	054502	054502	2 NT .375-16 HX GRD 5 ZNYC
	25	600878	600878	2 CS .375-16 X 1.75 G5 FULTD
	26	793059	793059	2 E CLIP (1/2") .80 X .396 X .042
	27	781567	781567	2 NT .500-13 HX G8 ZNYC NL
	28	063198	063198	4 CS 10-24 X .750 HXFLK ZN
	29	781211	781211	2 PUSH BUTTON SWITCH
	30	059832	059832	4 NT #10-24 HX NL ZN
	31	781583	781583	2 BRAKE ROD ASSEMBLY
	32	024927	024927	2 NT .250-20 HX GR.5 ZNYC
	33	068551	068551	2 NT .250-20 HXZY NL
	34	601088	601088	2 TOWLINK ROD
	35	048553	048553	2 CP .062D X 1.00 LG HML ZNYC
	36	601211	601211	2 BRAKE OVERTRAVEL SPRING
	37	058842	058842	4 NT .250-28 HX JAM ZNYC
	38	601201	601201	2 BALL JOINT, WITH STUD, 1/4-28
	39	601200	601200	2 BRAKE ACTUATOR ROD
	40	061572	061572	2 COMPRESS SPRING ZN PLD
	41	108468	108468	1 LEFT BRAKE ARM
	42	108467	108467	1 RIGHT BRAKE ARM
	43	600972	N/A	2 BRAKE ARM RETAINER CLIP
	44	108598	108598	1 LEFT BRAKE ACTUATOR BRACKET
	45	108588	108588	1 RIGHT BRAKE ACTUATOR BRACKET
	46	601221	N/A	2 ZT2800 BRAKE ARM
	47	055939	055939	2 CS .250-20 X .750 HX G5
	48	029876	029876	2 LW .312 INT-EXT TOOTH Z

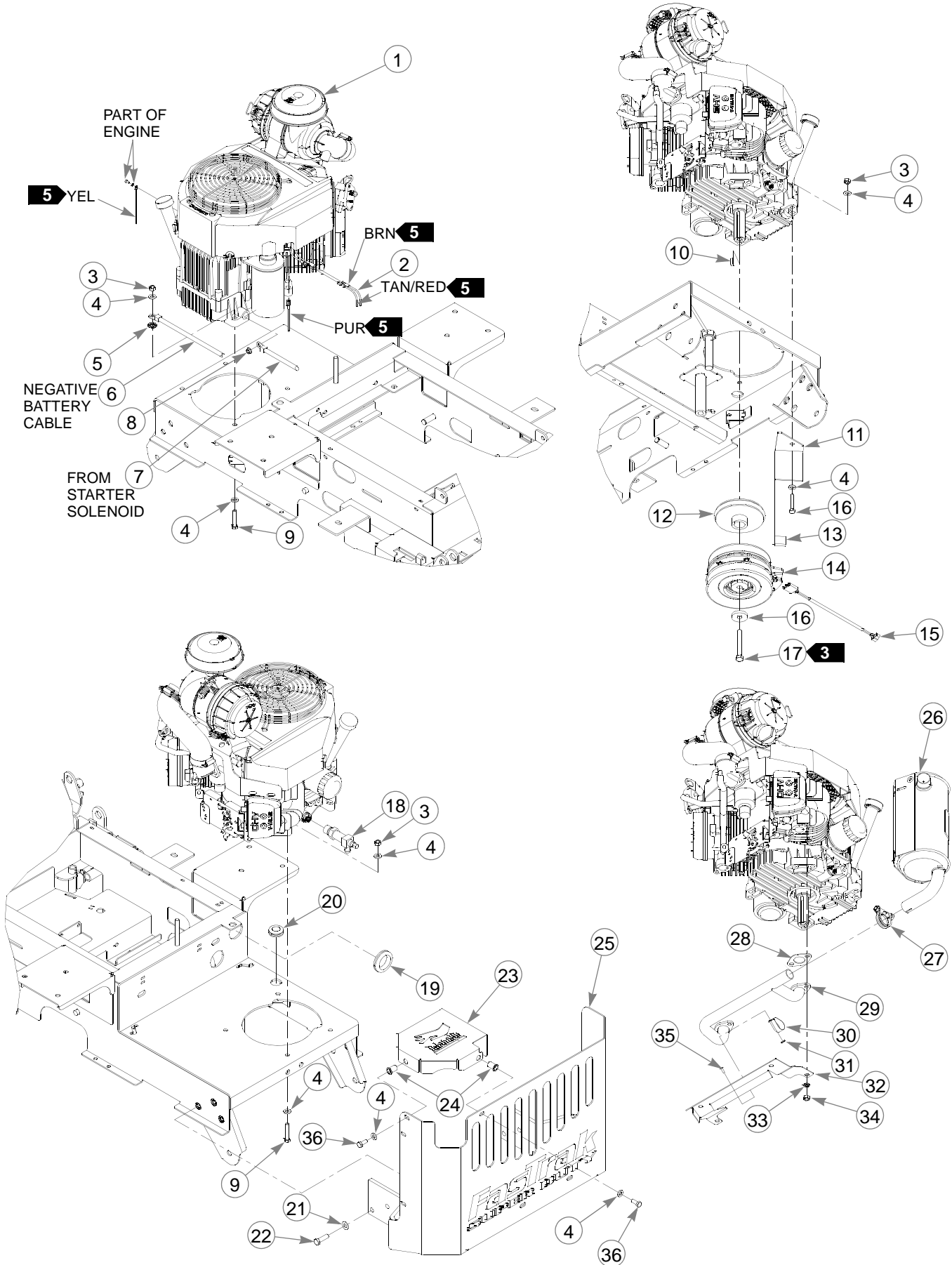
NOTES:

1. Included with Item 2 (360487 Steering Bar).

Chapter 4 Contents

Kawasaki Engine Installation	4-2
Fuel System Installation	4-6
Instrument Panel Installation	4-8
Kawasaki Electrical Schematic (601218)	4-10

Kawasaki Engine Installation



Kawasaki Engine Installation

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION	
1	1	N/A	797803	1	17 HP KAI KAWASAKI ENGINE
2		N/A	797811		19 HP KAI KAWASAKI ENGINE
	2	601218	601218	1	WIRE HARNESS, MNZ KAW
	3	034272	034272	4	NT .312-18 HX G5 ZNYC
	4	768523	768523	10	FW .343 X .687 X .051/.080 HD ZNYC
	5	029876	029876	1	LW .312 INT-EXT TOOTH ZNYC
	6	786640	N/A	1	BATTERY CABLE
	7	786632	N/A	1	RED BATTERY CABLE
	8	016816	016816	1	NT .250-20 HX FL LK ZNYC
	9	050161	050161	4	CS .312-18 X 1.75 HX G5
	10	712372	712372	1	KEY 1/4 SQ X 0.66 LONG
	11	330274	330274	1	WARNER CLUTCH ANCHOR
	12	799429	799429	1	4.5" O.D. "A" SEC PULLEY
	13	784918	784918	1	RUBBER BUMPER
	14	601325	601325	1	FASTRAK CLUTCH
7		784835	N/A	1	FASTRAK CLUTCH
	15	791251	N/A	1	CLUTCH PIGTAIL HARNESS
	16	763417	763417	1	FW .454X1.50X.250
	17	785048	785048	1	CS .437-20 X 3.00 HX G5 ZNYC
	18	796524	796524	1	M 20 X 2.5 OIL DRAIN VALVE
	19	794644	794644	1	GM 1.50 X 2.12 X 1.75 X .12
	20	748681	748681	1	GM .75 X 1.35 X 1.06 X .18-GR
	21	767954	767954	6	FW .406 X .812 X .060 SAE
	22	052860	052860	6	CS .375-16 X 1.25 HX G5
	23	108071	108071	1	MUFFLER COVER
	24	808485	N/A	2	RIVET NUT, 5/16-18 THREADE
	25	107608	107608	1	ENGINE GUARD
	26	600904	N/A	1	MUFFLER 17/19 KAI
	27	600907	N/A	1	MUFFLER CLAMP 17/19 KAI
	28	791558	N/A	2	EXHAUST GASKET
	29	600902	N/A	1	MANIFOLD 17/19 KAI
	30	600906	N/A	1	MANIFOLD CLMP 17/19 KAI
	31	005355	N/A	1	NT M4-.70-5 HX ZNYC
	32	600903	N/A	1	HEAT SHIELD 17/19 KAI
	33	017004	N/A	4	LW .312 MED SPRING ZNYC
	34	782664	N/A	4	NT M8-1.25 HX STAINLESS
	35	008979	N/A	1	MS M 4-.70 X 12 PH CR ZN
	36	034280	034280	2	CS .312-18X .750 HX G5

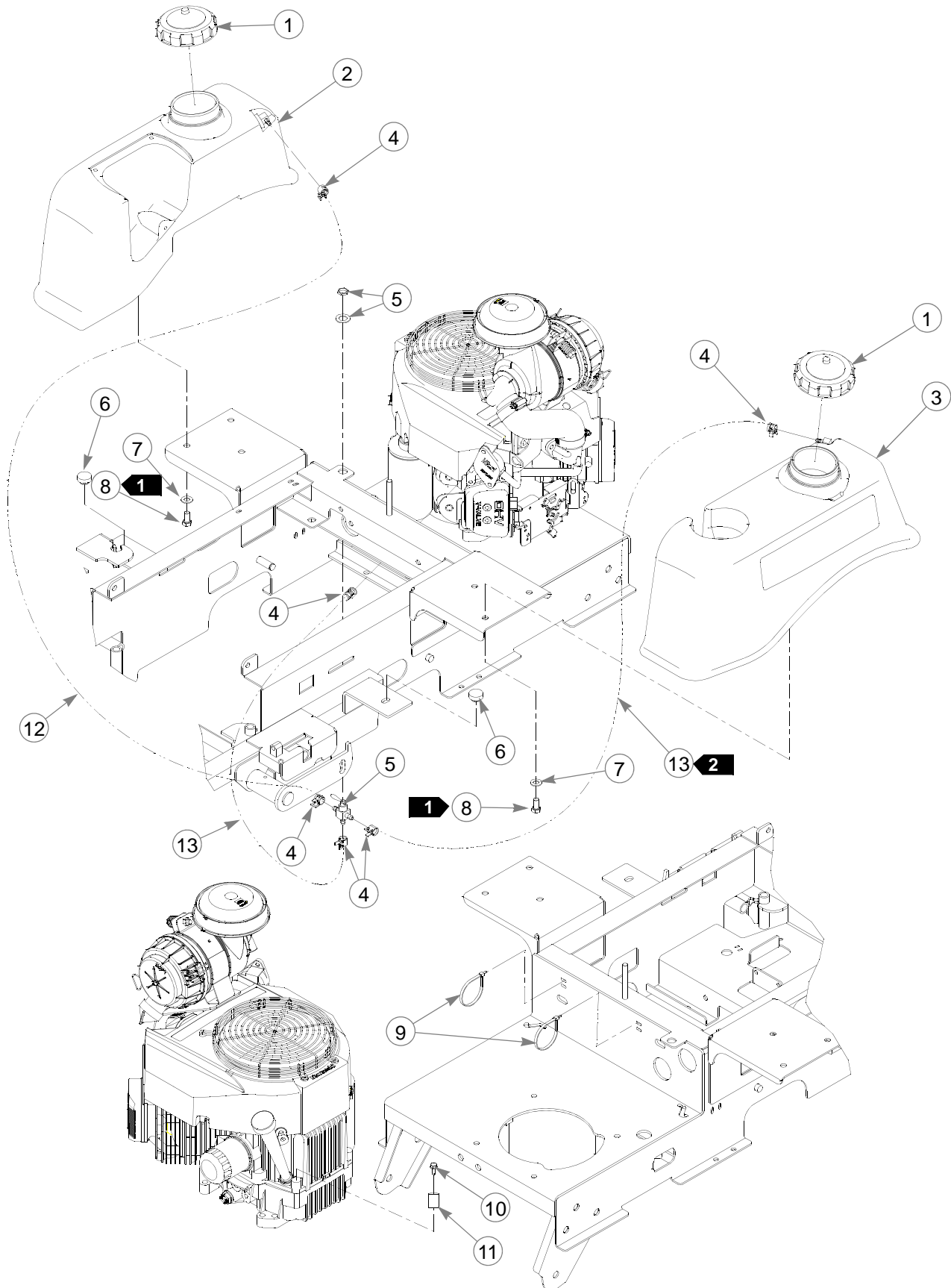
NOTES:

1. Used on 928192 only.
2. Used on 928200 only.
3. Torque bolt to 48-45 ft-lbs. Replace (do not reuse) capscrew if removed or loosened. Use only hand tools to install this fastener.
4. Engine speed; 3550±50 rpm.

-
5. Part of item 2 (601218 Wire Harness).
 6. Engine oil capacity: Check engine owners manual.
 7. Use for mowers with serial numbers prior to 07080622.

This page intentionally left blank.

Fuel System Installation



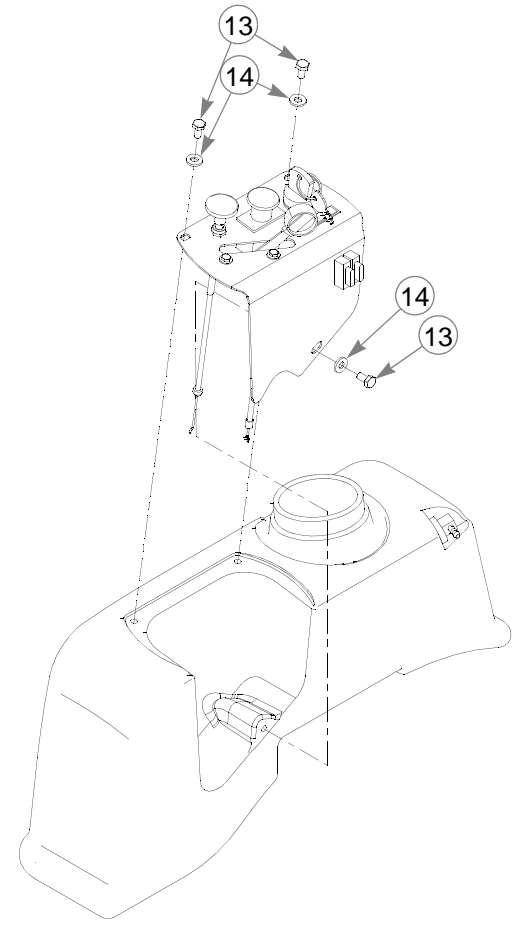
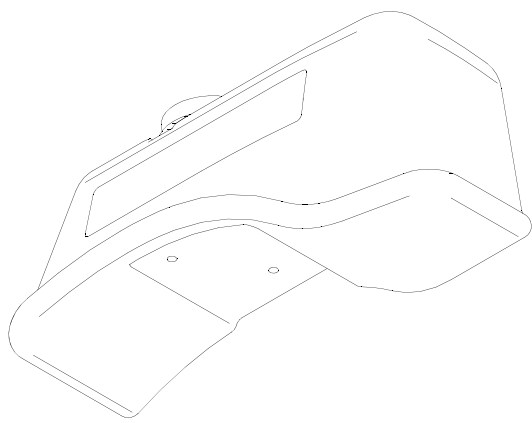
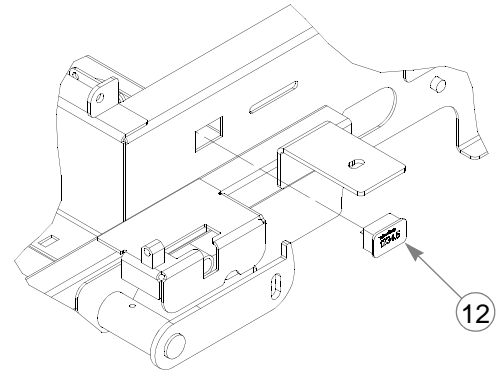
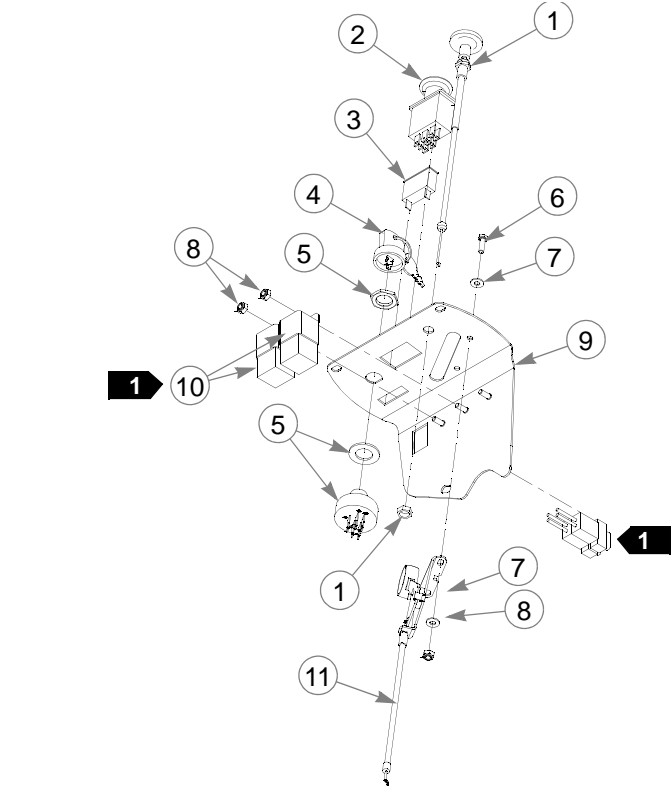
Fuel System Installation

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION	
1	1	779306	779306	2	3.5" FUEL CAP
	2	792960	792960	1	FUEL TANK RIGHT SIDE 36-42
	3	792978	792978	1	FUEL TANK LEFT SIDE 36-42
	4	000323	000323	6	CLIP
	5	745059	745059	1	3-WAY FUEL VALVE
	6	781880	781880	2	BUMPER, .500 X 1.00 X .312 X .188
	7	767954	767954	6	FW .406 X .812 X .060 SAE HD ZN
	8	055822	055822	6	CS .375-16 X HX GRD 5 ZNYC
	9	000331	000331	2	SMALL, SHORT WIRE TIE
	10	792796	792796	1	SC M 6-1.0X15 HX FL STP
	11	043570	043570	1	SINGLE HOSE CLIP
2	12	015818	015818	1	FUEL LINE 21.5" LONG
2	13	015818	015818	2	FUEL LINE 9" LONG

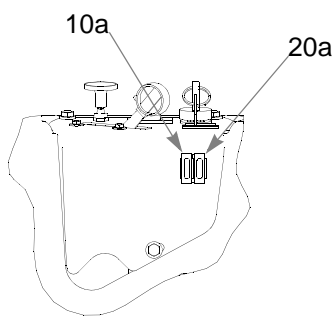
NOTES:

1. Torque to 20 ft-lbs.
2. For mowers with serial numbers prior to 07041752 use 21" long fuel line for the left side tank; and 8.5" long fuel line for the line between the valve and the engine; and 25.5" long fuel line for the right side tank.

Instrument Panel Installation



FUSE SIZE AND LOCATION



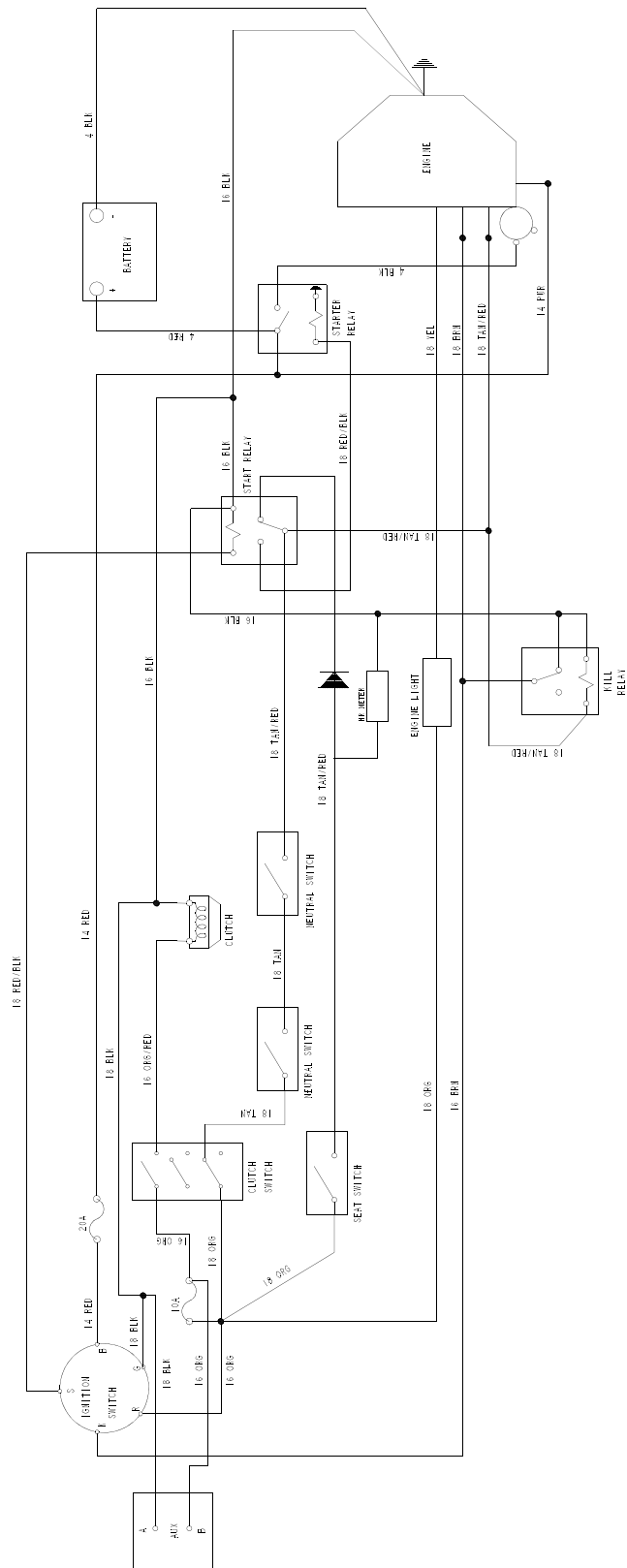
Instrument Panel Installation

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	785030	785030	1	CHOKE CABLE
2	776476	776476	1	PTO SWITCH
3	712257	712257	1	RED INDICATOR LIGHT
4	785808	785808	1	INDAK COATED KEY
5	045898	045898	1	KEY SWITCH
6	714998	714998	2	MS #10-24 X .625 HX ZN
7	704932	704932	4	FW .219 X .500 X .048 ZNYC
8	059832	059832	4	NT #10-24 HX NL ZN
9	321059	321059	1	INSTRUMENT PANEL
10	026237	N/A	2	RELAY
11	601096	601096	1	THROTTLE CABLE
12	769166	769166	1	HOUR METER
13	055947	055947	3	CS .250-20 X .50 HX G5 ZNYC
14	768515	768515	3	FW .281 X .625 X .051/.080 HD ZNYC

NOTES:

1. Part of 601218 (Wire Harness).

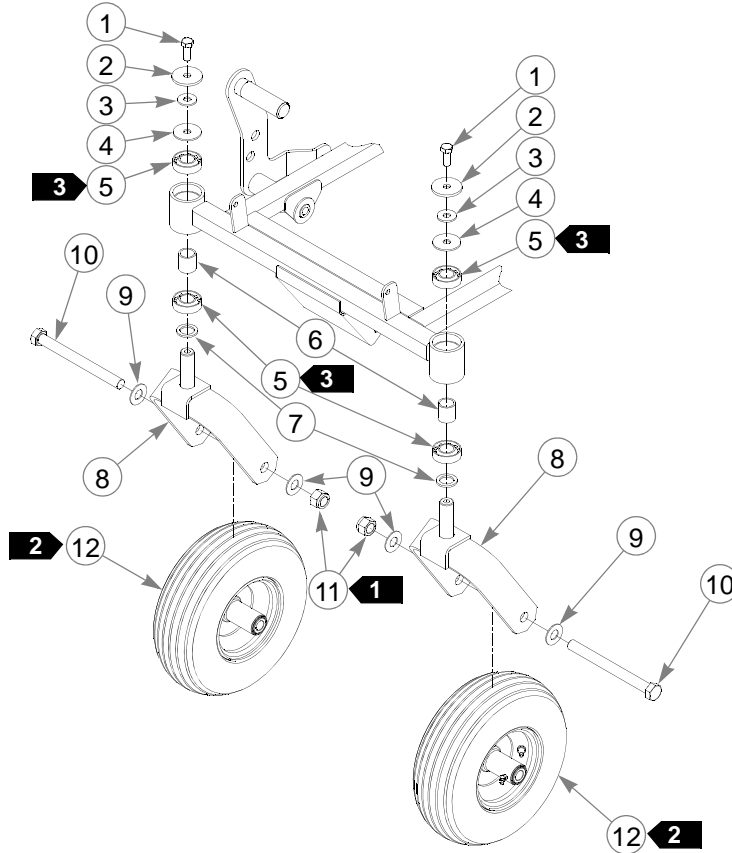
Kawasaki Electrical Schematic (601218)



Chapter 5 Contents

Front Wheel Assembly.	5-2
Front Wheel Breakdown—786061.	5-3
Drive Wheel Assembly.	5-4

Front Wheel Assembly

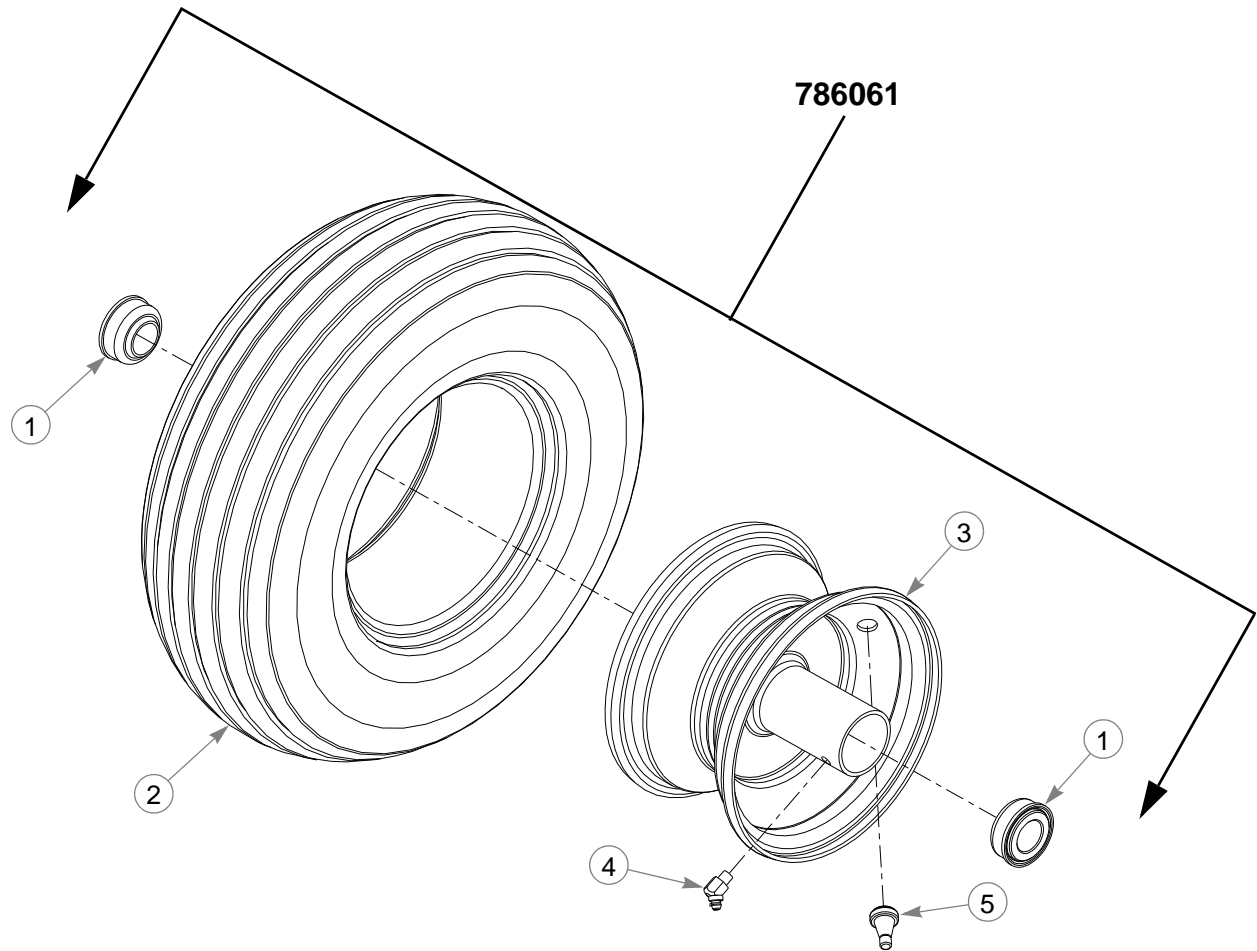


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
3	1	705954	2	CS .500-13 X 1.25 HX G5 ZNYC
	2	344267	2	FW .510 X 2.15 X .187 SPL
	3	712976	2	FW .531 X 1.375 X .125 ZNYC
	4	263517	2	BEARING DISC .531 ID
	5	784223	4	BEARING
	6	784603	2	SPACER
	7	045765	2	FW 1.030 X 1.500 X .134 ZNYC
	8	366625	2	FORK
	9	025296	4	FW .760 X 1.625 X .08 ZNYC
	10	786731	2	CS .750-10 X 8.00 HX GR5 ZYNC
	11	061101	2	NT .750-10 HX NL ZN
		786061	2	WHEEL/TIRE ASSY 13 X 500-6

NOTES:

1. Apply grease to zerks.
2. Assemble with extended inner race down.
3. Tighten, then back off until wheel spins freely.

Front Wheel Breakdown—786061

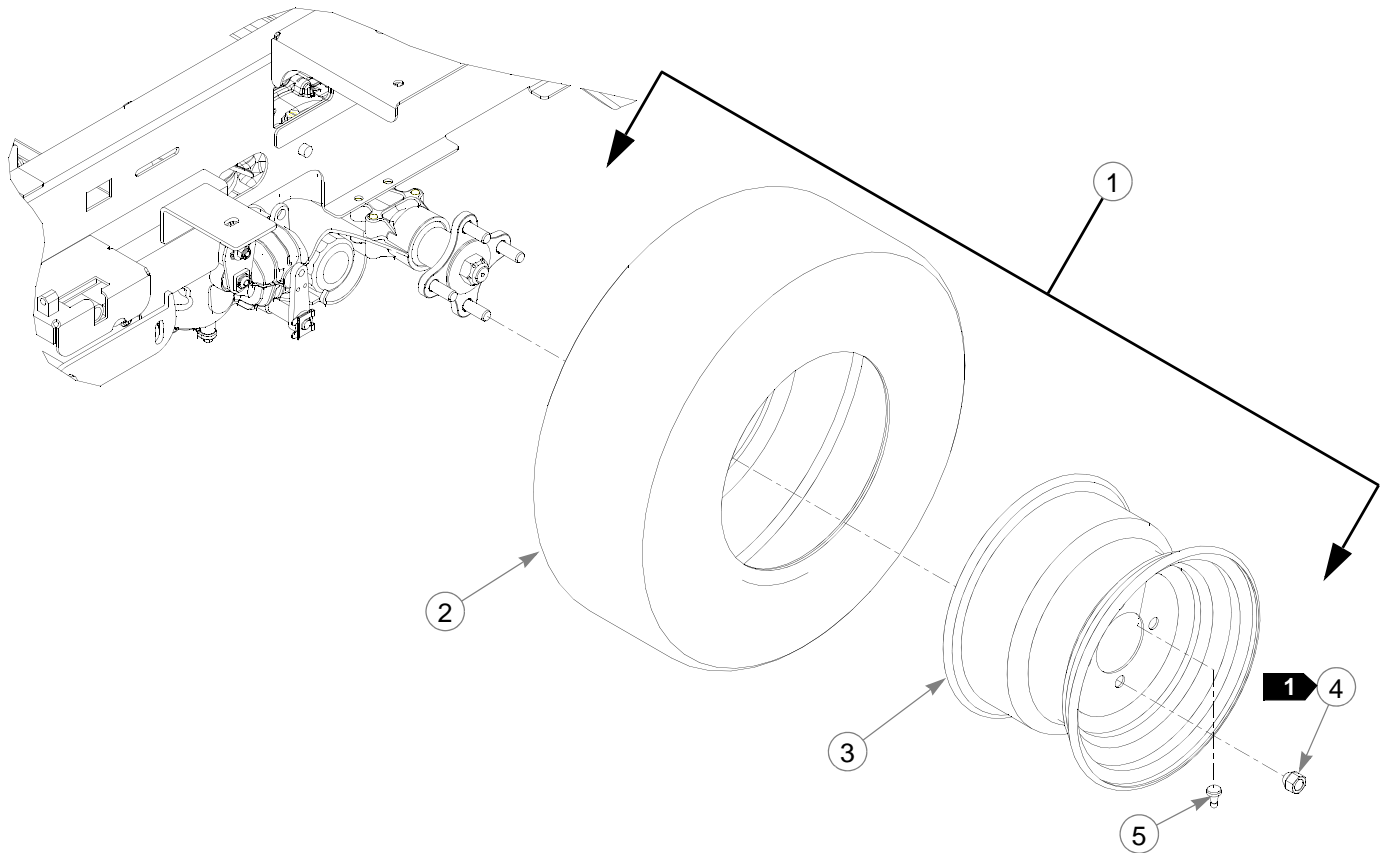


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	786103	N/A	2	WHEEL BEARING
2	747402	N/A	1	13"X5" TIRE SUPER GUIDE
3	786079	N/A	1	WHEEL
4	015511	N/A	1	GREASE FITTING 45° DEG ¼"
5	019521	N/A	1	TIRE VALVE

NOTES:

1. Inflate tire to 8-12 psi.

Drive Wheel Assembly



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	600676	600676	2	WHEEL/TIRE ASSEMBLY 20 X 8-10 (PER 36" MOWER)
2	600692	N/A	1	20 X 8-10 TIRE
3	600718	N/A	1	10 X 7 WHEEL
4	061077	061077	8	WHEEL NUT (PER MOWER)
5	019521	N/A	1	TIRE VALVE

1	600668	600668	2	WHEEL/TIRE ASSEMBLY (PER 42" MOWER)
2	600684	N/A	1	20 X 10-10 TIRE
3	600700	N/A	1	10 X 7 WHEEL
4	061077	061077	8	WHEEL NUT (PER MOWER)
5	019521	N/A	1	TIRE VALVE

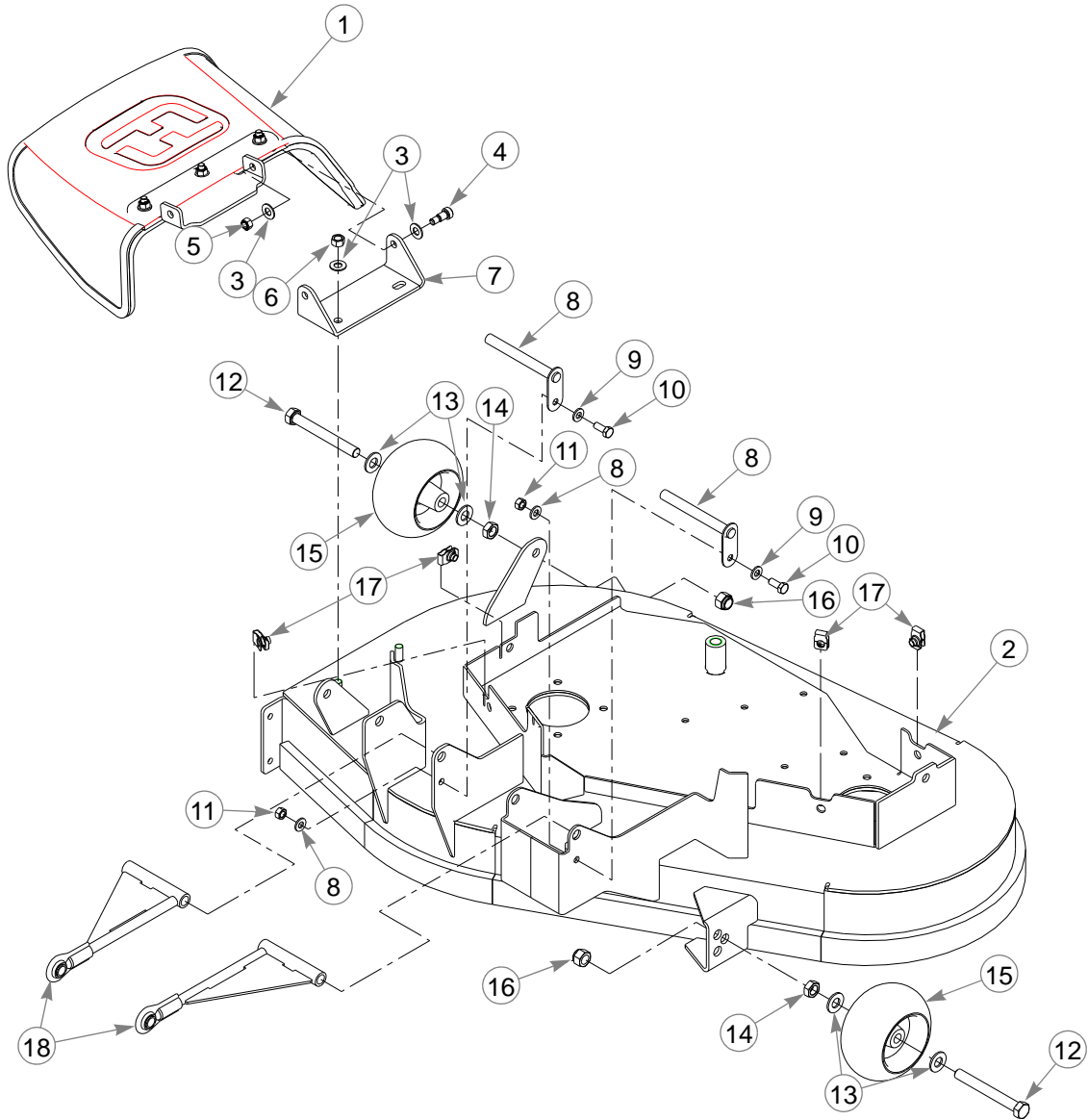
NOTES:

1. Torque to 65 ft-lbs.
2. Inflate tire to 8-12 psi.

Chapter 6 Contents

Deck Assembly 36" SN Prior to 10020000	6-2
Deck Assembly 36" SN Higher Than 10020000	6-4
Deck Pulley Assembly 36"	6-6
Deck Assembly 42" SN Prior to 10020000	6-8
Deck Assembly 42" SN Higher Than 10020000	6-10
Deck Pulley Assembly 42"	6-12
Spindle Assembly—783506.	6-14

Deck Assembly 36" SN Prior to 10020000



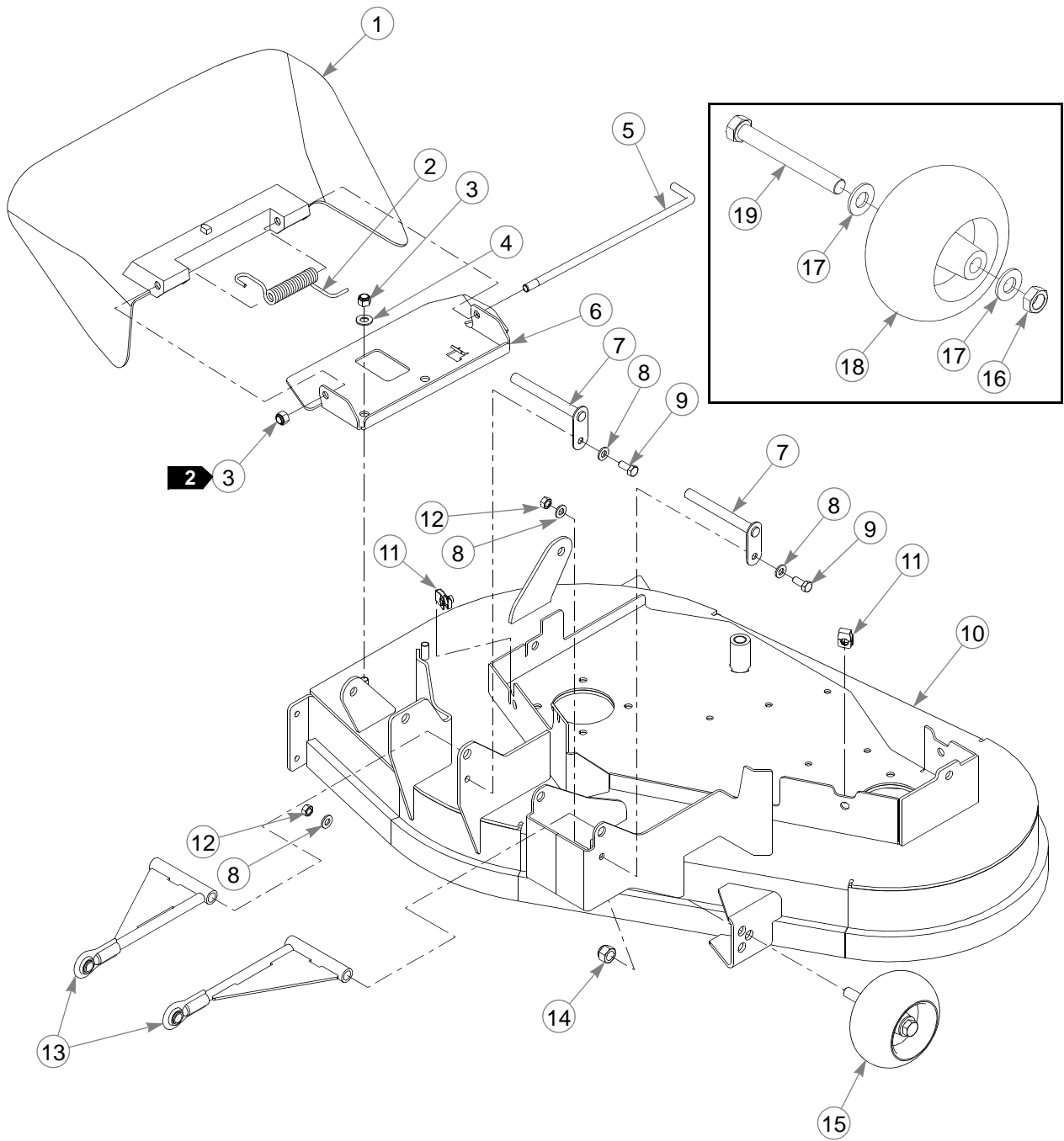
Deck Assembly 36" SN Prior to 10020000

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	601117	601117	1	RUBBER DISCHARGE CHUTE
3	2	547863	352724	1 36" MINI Z DECK
3	767954	767954	6	FW .406 X .812 X .060 SAE
4	063297	063297	2	SB .375 X .500 SH .312-1
5	058776	058776	2	NT .312-18 HXZY NL
6	054502	054502	2	NT .375-16 HX GRD 5 ZNY
7	107794	107794	1	DISCHARGE CHUTE BRACKET
8	322974	322974	2	PULLBAR PIN
9	768523	768523	4	FW .343 X .687 X .051/.080 HD
10	034280	034280	2	CS .312-18 X .750 HX G5
11	034272	034272	2	NT .312-18 HX G5 ZNYC
12	781708	N/A	2	CS .500-13X4.250 HX G5
13	767962	N/A	4	FW .531 X 1.063 X .090 SAE
14	053199	N/A	2	NT .500-13 HX JAM ZNYC
15	031997	N/A	2	ANTI-SCALP WHEEL
16	781567	781567	2	.500-13 HX GR8 ZY NL
2	17	601069	601069	4 CN .312-18X.200 MAX THK
18	797365	797365	2	DECK PULLBAR
1	788166	788166	2	ANTI SCALP WHEEL ASSEMBLY

NOTES:

1. Includes items 12 through 15.
2. Mowers with serial numbers prior to 07031005 use 808485 (5/16-18 Rivet Nut).
3. Service part deck includes decals, see "36" Deck Decals" on page 8-4.

Deck Assembly 36" SN Higher Than 10020000



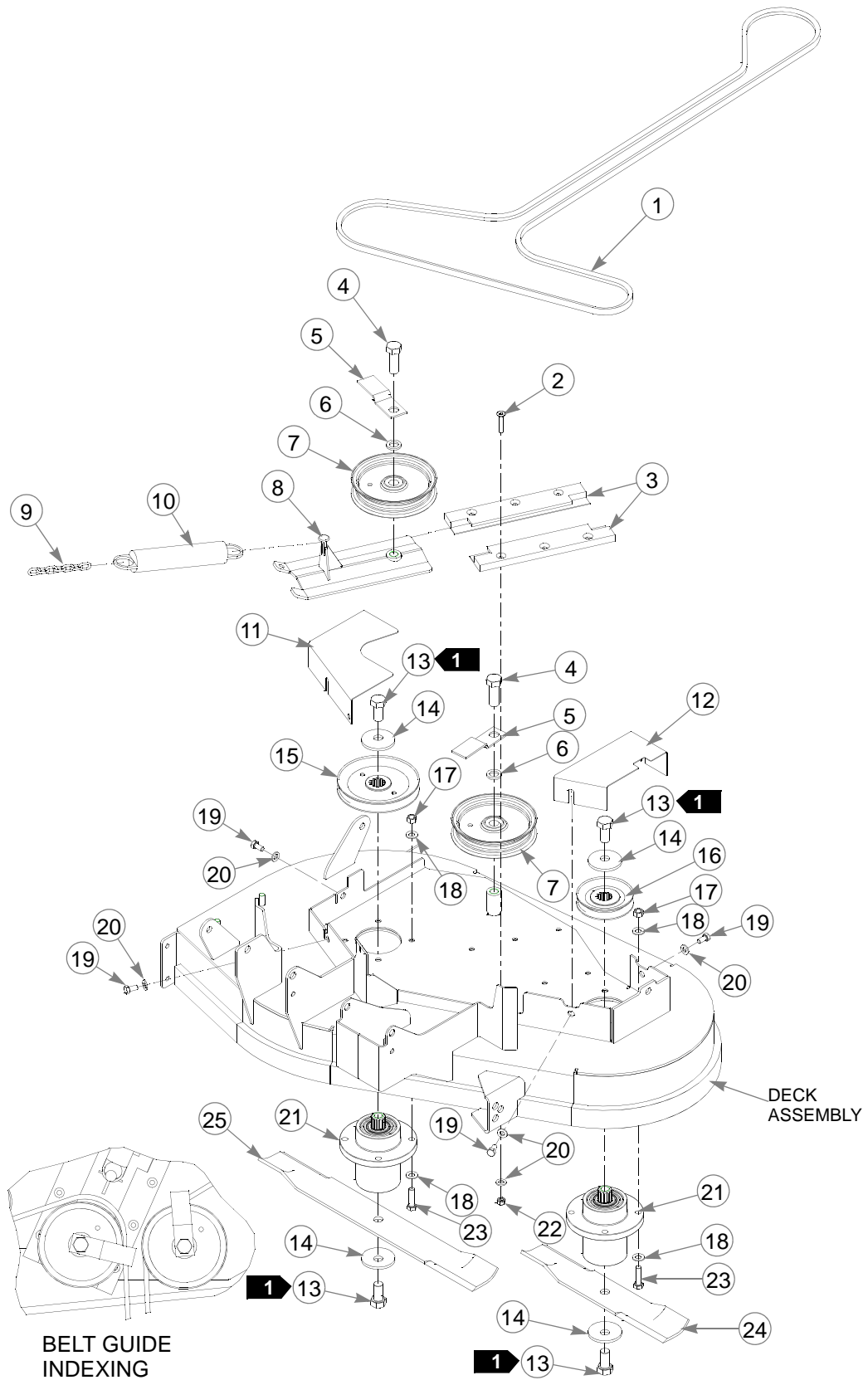
Deck Assembly 36" SN Higher Than 10020000

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	601806	601806	1	DISCHARGE CHUTE
2	601824	601824	1	TORSION SPRING
3	086660	086660	3	NT .375-16 HX LK NY
4	767954	767954	2	FW .406 X .812 X .060 SAE HD ZN
5	601843	601843	1	CHUTE PIN
6	112877	112877	1	CHUTE BRACKET
7	322974	322974	2	PULLBAR PIN
8	768523	768523	4	FW .343 X .687 X .051/.080 HD ZNYC
9	034280	034280	2	CS .312-18 X .75 HX G5 ZNYC
10	546937	315572	1	36" FASTRAK DECK
11	601069	601069	4	CN .312-18X.200 MAX THK
12	034272	034272	2	NT .312-18 HX G5 ZNYC
13	330225	330225	2	PULLBAR
14	781567	781567	1	NT .50-13 HX LK NY
1	788166	788166	1	ANTI SCALP WHEEL ASSY
16	053199	N/A	1	NT .500-13 HX JAM ZNYC
17	767962	N/A	2	FW .531 X 1.063 X .090 SAE HD ZN
18	031997	N/A	1	ANTI-SCALP WHEEL
19	781708	N/A	1	CS .500-13 X 4.25 HX G5 ZNYC

NOTES:

1. Includes items 16 through 19.
2. Do not torque, Item 1 (601806 Discharge Chute) must pivot freely.

Deck Pulley Assembly 36"



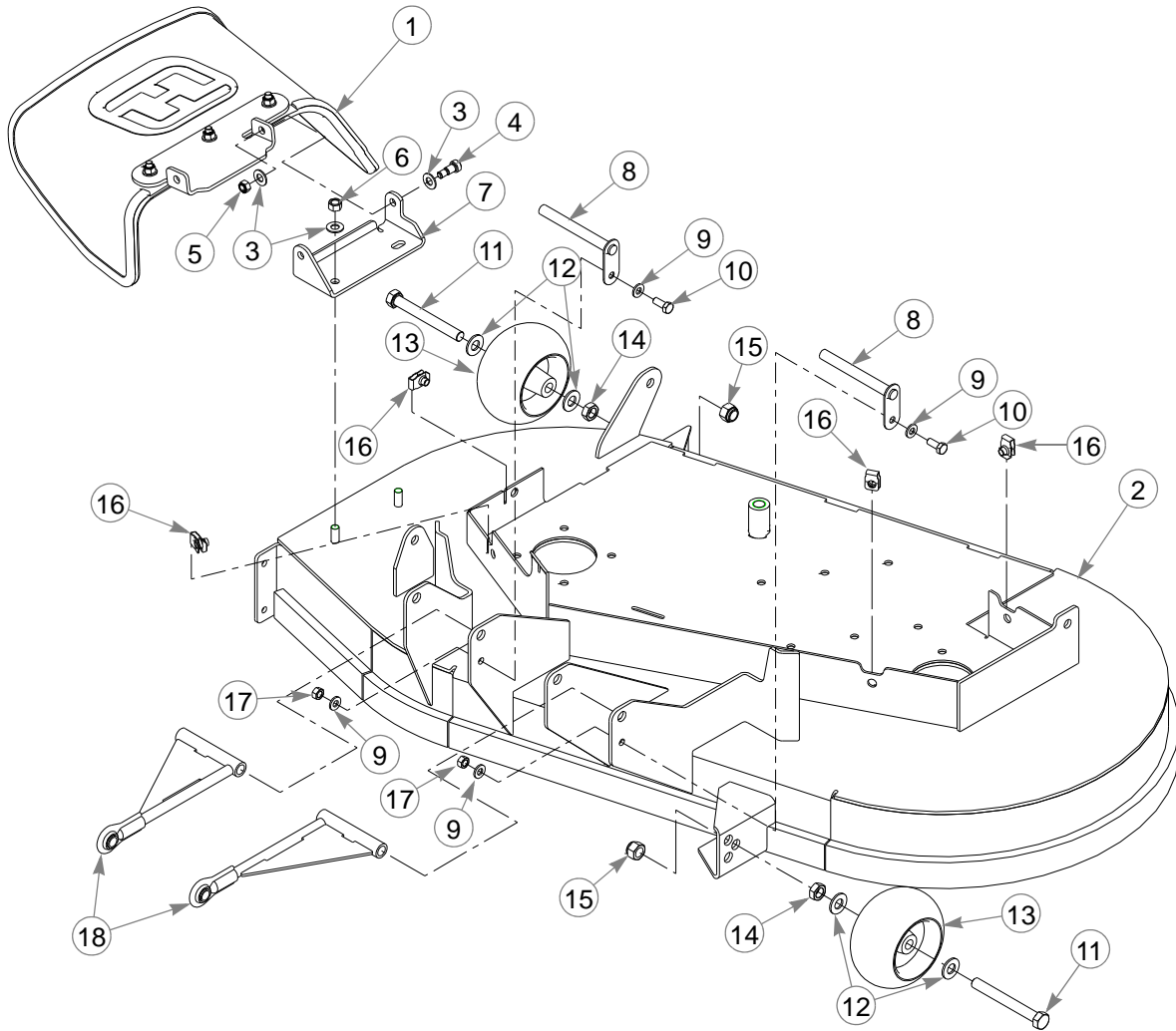
Deck Pulley Assembly 36"

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	600726	600726	1	A-SECTION BELT, 114.3"
2	784199	784199	6	CS .312-18 X 1.25 FLT SH ZY
3	601434	601434	2	UHMW IDLER SLIDE
4	025007	025007	2	CS .625-11 X 1.75 HX G5
5	347443	347443	2	DECK BELT IDLER GUIDE,
6	028118	028118	2	FW .625 X 1.00 X .134 ZN YC
7	781856	781856	2	5.00" IDLER PULLEY
8	105031	105031	1	MINI Z DECK IDLER
9	364315	364315	1	SPRING CHAIN
10	781302	781302	1	IDLER SPRING
11	100875	100875	1	RIGHT PULLEY COVER
12	100867	100867	1	LEFT PULLEY COVER
13	781872	781872	4	CS .625-11 X 1.25 HX G5 ZN
14	782474	782474	4	CW .631 2.250 X .187 PNT
15	796656	796656	1	5.62 EOD A-SEC PULLEY
16	796664	796664	1	3.75 EOD A-SEC PULLEY
17	054502	054502	8	NT .375-16 HX GRD 5 ZNY
18	767954	767954	16	FW .406 X .812 X .060 SAE
3 19	034280	034280	4	CS .312-18 X .75 HX G5
20	768523	768523	10	FW .343 X.687 X .051/.080 HD
21	783506	783506	2	BLADE SPINDLE ASSEMBLY
22	058776	058776	6	NT .312-18 HX ZY NL
23	005116	005116	8	CS .375-16 X 1.375 HX G5
24	600900	600900	1	F13.75"-L-F-CW BLADE
25	600901	600901	1	F20.50"-L-F-CW BLADE

NOTES:

1. Torque to 118 ft. lbs.
2. See "Deck Belt Routing" on page 7-3.

Deck Assembly 42" SN Prior to 10020000



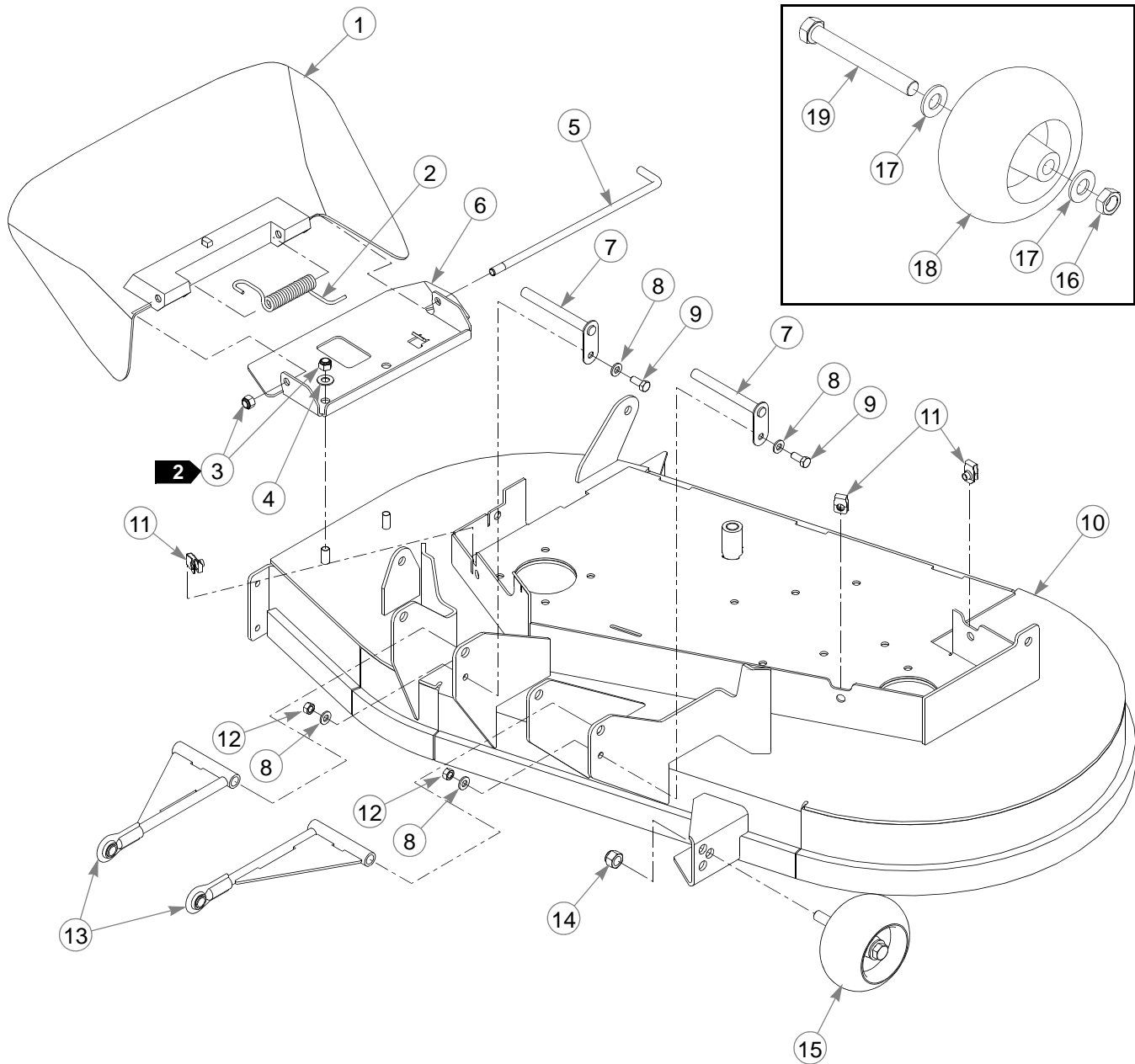
Deck Assembly 42" SN Prior to 10020000

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	601117	601117	1	RUBBER DISCHARGE CHUTE
3	2	547844	105296	1 42" MINI Z DECK
3	767954	767954	6	FW .406 X .812 X .060 SAE
4	063297	063297	2	SB .375 X .500 SH .312-1
5	058776	058776	2	NT .312-18 HXZY NL
6	054502	054502	2	NT .375-16 HX GRD 5 ZNY
7	357103	357103	1	DISCHARGE CHUTE BRACKET
8	322974	322974	2	PULLBAR PIN
9	768523	768523	4	FW .343 X .687 X .051/.080 HD
10	034280	034280	2	CS .312-18 X .750 HX G5
11	781708	N/A	2	CS .500-13X4.250 HX G5
12	767962	N/A	4	FW .531 X 1.063 X .090 SAE
13	031997	N/A	2	ANTI-SCALP WHEEL
14	053199	N/A	2	NT .500-13 HX JAM ZNYC
15	781567	781567	2	.500-13 HX GR8 ZY NL
2	16	601069	601069	4 CN .312-18X.200 MAX THK
17	034272	034272	2	NT .312-18 HX G5 ZNYC
18	797365	797365	2	DECK PULLBAR
1	788166	788166	2	ANTI SCALP WHEEL ASSEMBLY

NOTES:

1. Includes items 12 through 15.
2. Mowers with serial numbers prior to 07031005 use 808485 (5/16-18 Rivet Nut).
3. Service part deck includes decals, see "42" Deck Decals" on page 8-5.

Deck Assembly 42" SN Higher Than 10020000



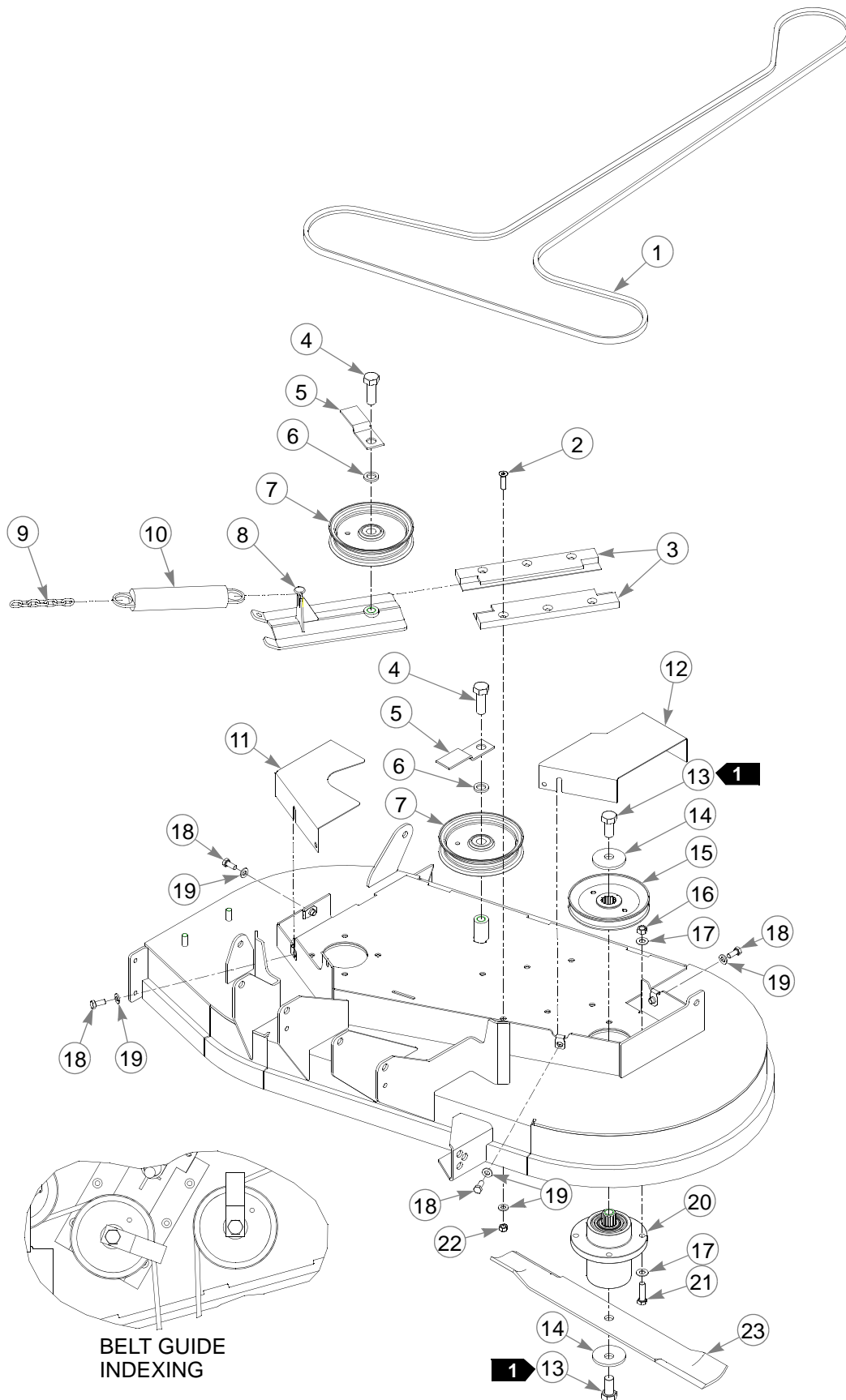
Deck Assembly 42" SN Higher Than 10020000

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	601806	601806	1	DISCHARGE CHUTE
2	601824	601824	1	TORSION SPRING
3	086660	086660	3	NT .375-16 HX LK NY
4	767954	767954	2	FW .406 X .812 X .060 SAE HD ZN
5	601843	601843	1	CHUTE PIN
6	112877	112877	1	CHUTE BRACKET
7	322974	322974	2	PULLBAR PIN
8	768523	768523	4	FW .343 X .687 X .051/.080 HD ZNYC
9	034280	034280	2	CS .312-18 X .75 HX G5 ZNYC
10	547844	105296	1	42" MINI Z DECK
11	601069	601069	4	CN .312-18X.200 MAX THK
12	034272	034272	2	NT .312-18 HX G5 ZNYC
13	797365	797365	2	DECK PULLBAR
14	781567	781567	1	NT .50-13 HX LK NY
1	788166	788166	1	ANTI SCALP WHEEL ASSY
16	053199	N/A	1	NT .500-13 HX JAM ZNYC
17	767962	N/A	2	FW .531 X 1.063 X .090 SAE HD ZN
18	031997	N/A	1	ANTI-SCALP WHEEL
19	781708	N/A	1	CS .500-13 X 4.25 HX G5 ZNYC

NOTES:

1. Includes items 16 through 19.
2. Do not torque, Item 1 (601806 Discharge Chute) must pivot freely.

Deck Pulley Assembly 42"



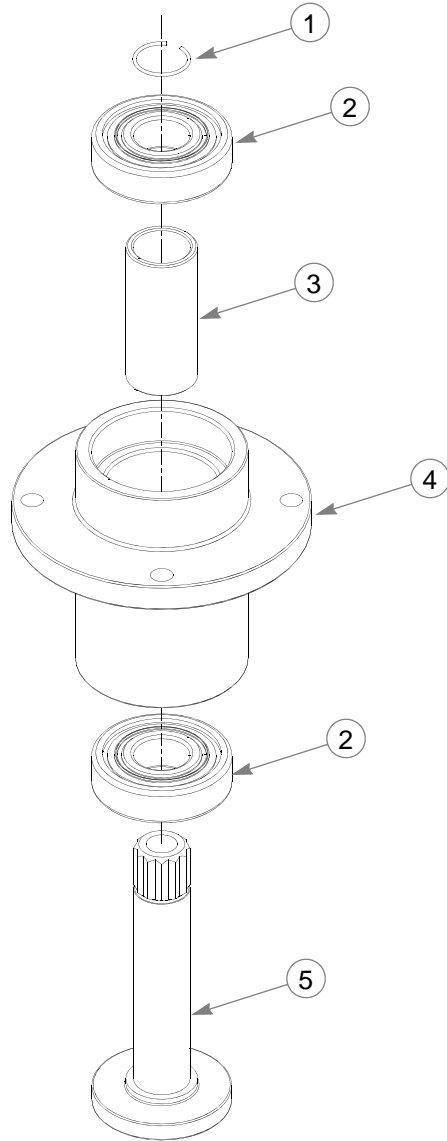
Deck Pulley Assembly 42"

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	600734	600734	1	A-SECTION BELT, 132.0"
2	784199	784199	6	CS .312-18 X 1.25 FLT SH ZY
3	601434	601434	2	UHMW IDLER SLIDES
4	025007	025007	2	CS .625-11 X 1.75 HX G5
5	347443	347443	2	DECK BELT IDLER GUIDE,
6	028118	028118	2	FW .625 X 1.00 X .134 ZN YC
7	781856	781856	2	5.00" IDLER PULLEY
8	105031	105031	1	MINI Z DECK IDLER
9	364315	364315	1	SPRING CHAIN
10	781302	781302	1	IDLER SPRING
11	100875	100875	1	RIGHT PULLEY COVER
12	105155	105155	1	LEFT PULLEY COVER
13	781872	781872	4	CS .625-11 X 1.25 HX G5 ZN
14	782474	782474	4	CW .631 2.250 X .187 PNT
15	796656	796656	2	5.62 EOD A-SEC PULLEY
16	054502	054502	8	NT .375-16 HX GRD 5 ZNY
17	767954	767954	16	FW .406 X .812 X .060 SAE
3	18	034280	4	CS .312-18 X .750 HX G5
19	768523	768523	10	FW .343 X.687 X .051/.080 HD
20	783506	783506	2	BLADE SPINDLE ASSEMBLY
21	005116	005116	8	CS .375-16 X 1.375 HX G5
22	058776	058776	6	NT .312-18 HX ZY NL
23	600901	N/A	2	F20.50"-L-F-CW BLADE

NOTES:

1. Torque to 118 ft. lbs.
2. See "Deck Belt Routing" on page 7-3.
3. Mowers with serial numbers prior to 07031005 use 064006 (CS .312 18 X .625 HX G5).

Spindle Assembly—783506



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	783548	N/A	1	BLADE SPINDLE RING RETAINER
2	783555	N/A	2	BLADE SPINDLE BEARING
3	783530	N/A	1	BLADE SPINDLE SPACER
4	783514	N/A	1	BLADE SPINDLE HOUSING
5	783522	N/A	1	BLADE SPINDLE SHAFT

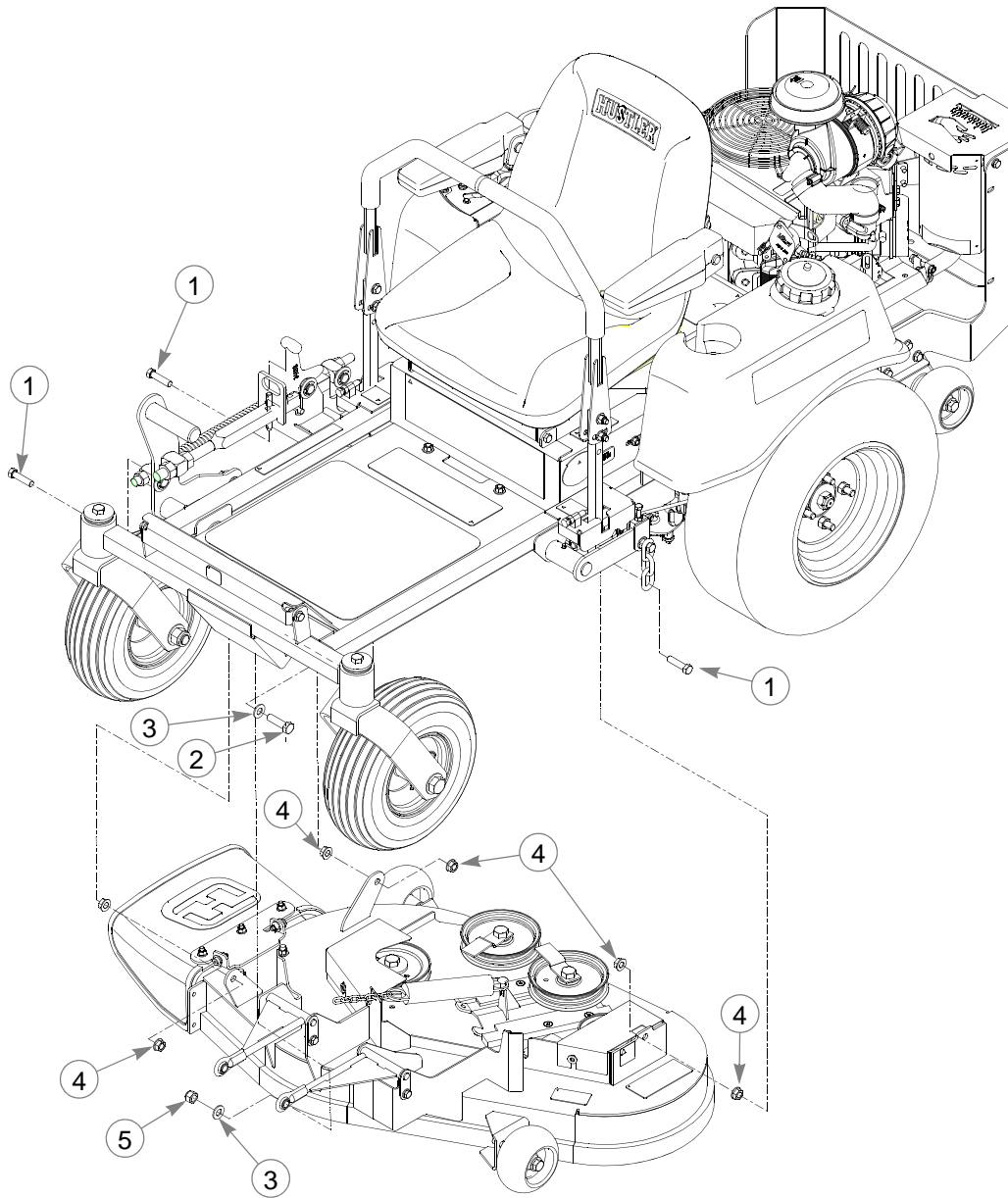
NOTES:

This page intentionally left blank.

Chapter 7 Contents

Deck Installation	7-2
Deck Belt Routing	7-3
Seat Installation	7-4

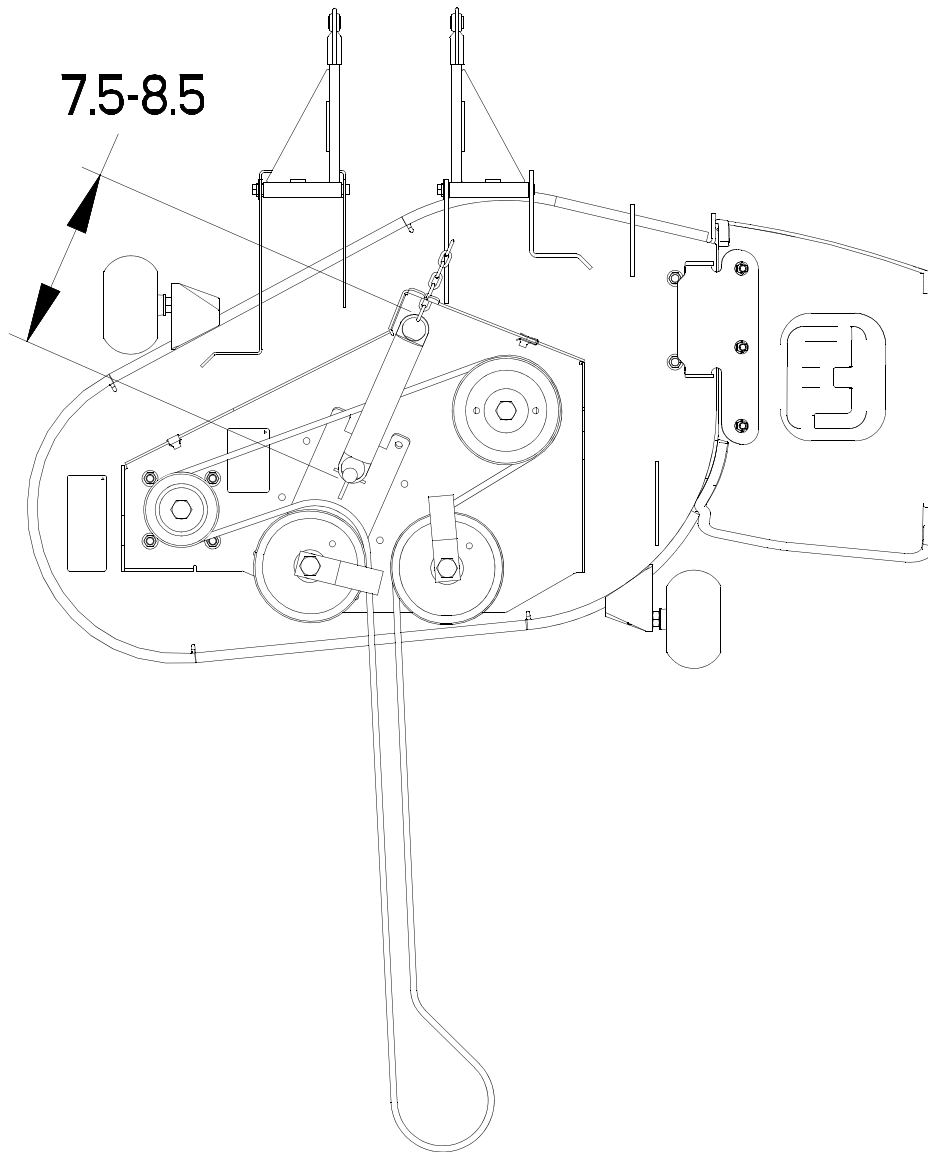
Deck Installation



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	055749	055749	3	CS .437-14 X 1.75 HX G5
2	017616	017616	2	CS .500-13 X 1.75 HX G5
3	767962	767962	4	FW .531 X 1.063 X .090 SAE
4	704643	704643	6	NT .437-14 HX FLG ZN
5	781567	781567	2	NT .500-13 H8ZY NL

NOTES:

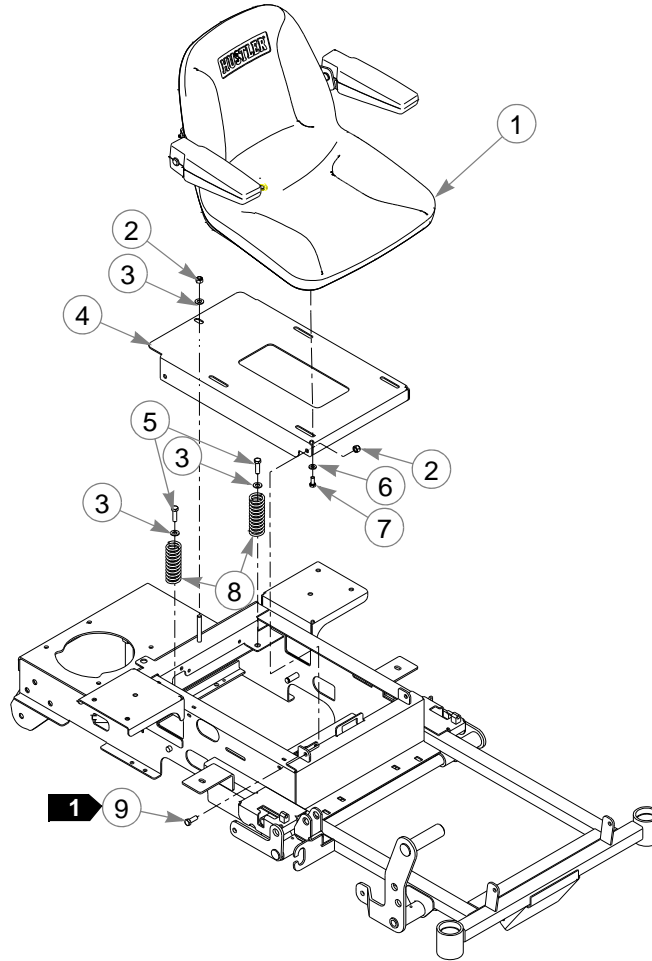
Deck Belt Routing



NOTES

1. Spring length after tension belt—measured from outside of hook to outside of hook. Tension spring with deck in level position.
2. Route belt as shown.

Seat Installation



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	792226	792226	1	STANDARD MICHIGAN SEAT
2	086660	086660	3	NT .375-16 HX ZY NL
3	767954	767954	3	FW .406 X .812 X .060 SAE
4	107630	107630	1	MINI Z SEAT PAN
5	052860	052860	2	CS .375-16 X 1.25 HX G5
6	768523	768523	4	FW .343 X .687 X .051/.080 HD
7	034280	034280	4	CS .312-18 X .750 HX G5
8	793851	793851	2	COMPRESSION SPRING
9	036244	036244	2	CS .375-16 X 1.00 HX G5

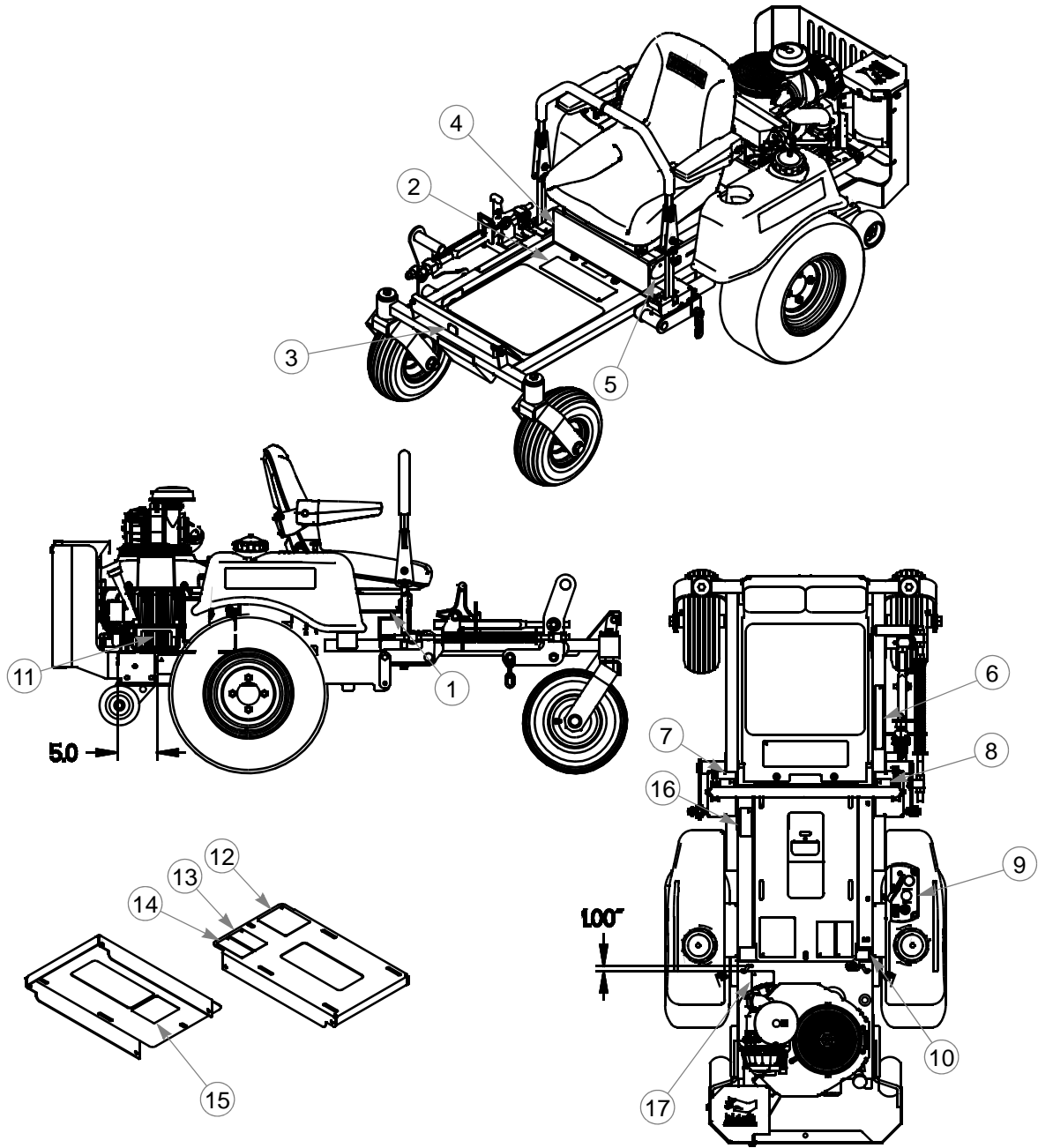
NOTES:

1. Do not torque, Item 4 (107630 Mini Z Seat Pan) must pivot on these fasteners.

Chapter 8 Contents

Tractor Decals	8-2
36" Deck Decals	8-4
42" Deck Decals	8-5

Tractor Decals



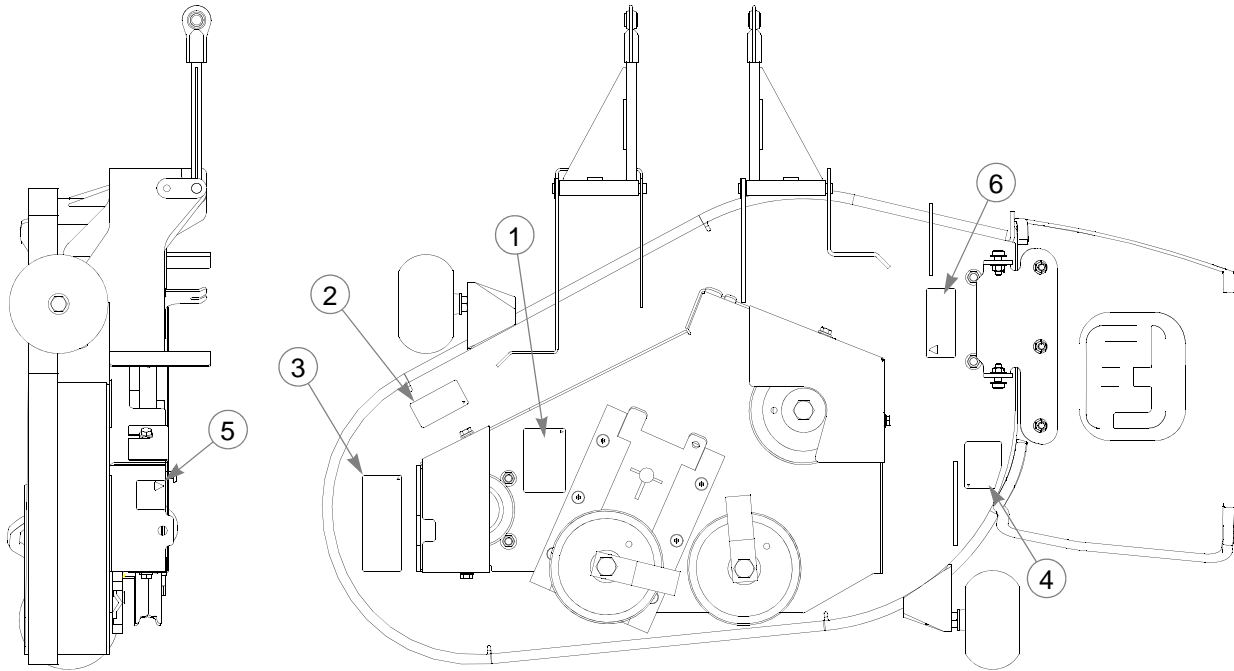
Tractor Decals

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	N/A	083279	1	SERIAL NO PLATE
2	793547	793547	1	OPERATION DECAL
3	793588	793588	1	HUSTLER NAME PLATE
4	601421	601421	1	FASTRAK SUPER DUTY ID DECAL
1	786814	786814	1	HUSTLER MINI-Z ID DECAL
5	782573	782573	1	FIRST ZERO TURN DECAL
6	781427	781427	1	DECK HEIGHT INDICATOR DECAL
7	785139	785139	1	L.S. STEERING DECAL
8	785220	785220	1	R.S. STEERING DECAL
9	793703	793703	1	INSTRUMENT PANEL DECAL
10	793554	793554	1	FUEL VALVE DECAL
11	771436	771436	1	STABILIZER DECAL
12	785147	785147	1	SERVICE DECAL
13	600899	600899	1	PUMP BELT WARNING DECAL
14	788968	788968	1	ENGINE COMPARTMENT DECAL
15	727016	727016	1	BATTERY DECAL
16	600941	600941	1	PATENTS DECAL
17	601099	601099	1	TOW VALVE DECAL

NOTES:

1. Used on Mini Z 36/42 mowers.

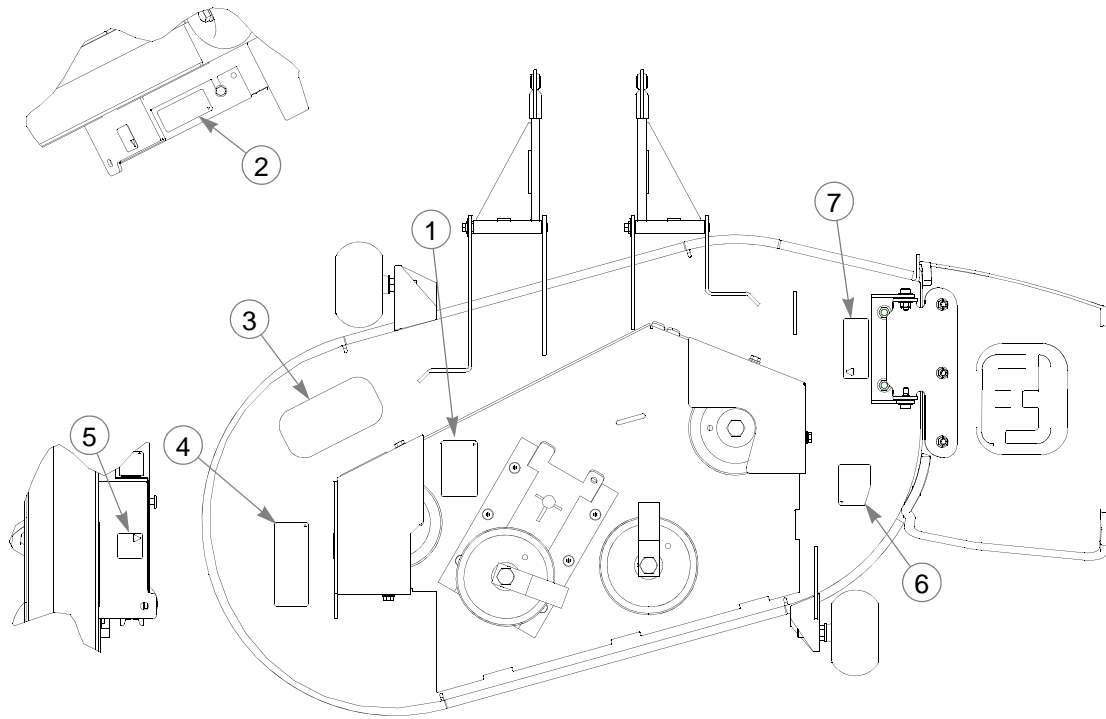
36" Deck Decals



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	793687	793687	1	BELT ROUTING DECAL
2	793513	793513	1	36" DECK ID DECAL
3	793570	793570	1	DECK WARNING DECAL
4	794297	794297	1	DISCHARGE CHUTE 36/42" DECAL
5	727172	727172	1	'MADE IN U.S.A.' DECAL
6	797845	797845	1	FUSION DECAL

NOTES:

42" Deck Decals



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	793687	793687	1	BELT ROUTING DECAL
2	793521	793521	1	42" DECK ID DECAL
3	794503	794503	1	STEP TREAD
4	793570	793570	1	DECK WARNING DECAL
5	727172	727172	1	'MADE IN U.S.A.' DECAL
6	794297	794297	1	DISCHARGE CHUTE DECAL
7	797845	797845	1	FUSION DECAL

NOTES:

Chapter 9 Contents

Assembly Pictures and Aids	9-2
Connections for all models:.	9-2
Fuel tanks and fuel line routing:	9-4
Maintenance & Adjustment Safety.	9-5
Maintenance	9-9
Recommended service procedure	9-19
Overservicing	9-20
Adjustments	9-26

Assembly Pictures and Aids

Connections for all models:

PTO clutch switch installation (Instrument Panel) (FIG. 1)



FIG. 1

Cable and wire harness routing (FIG. 2, FIG. 3, & FIG. 4).

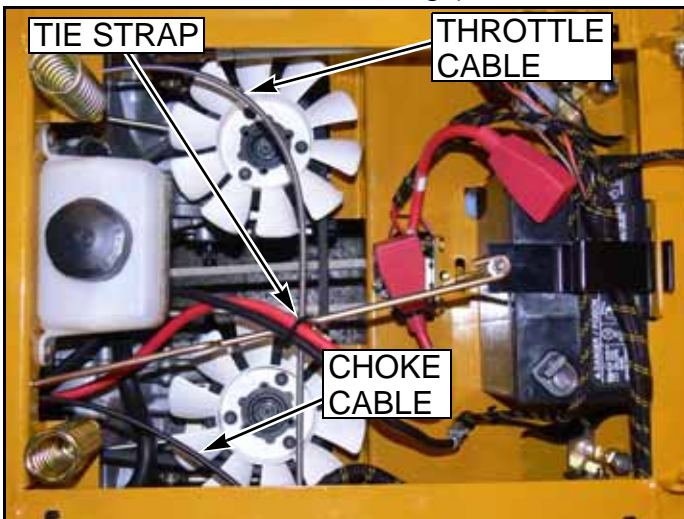


FIG. 2

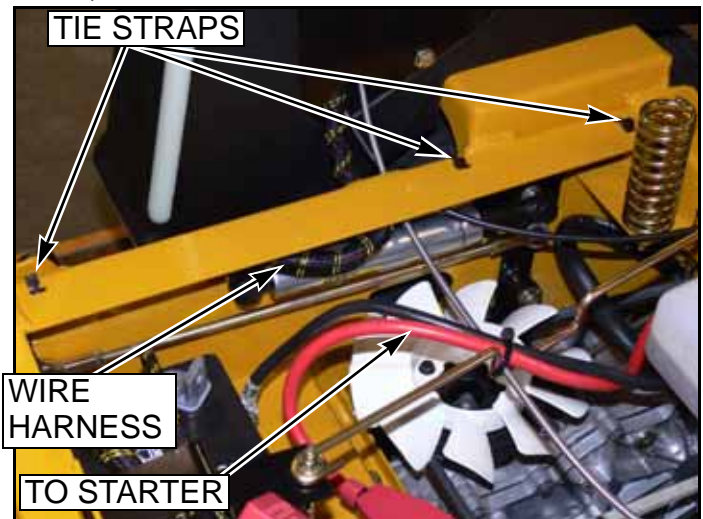


FIG. 3

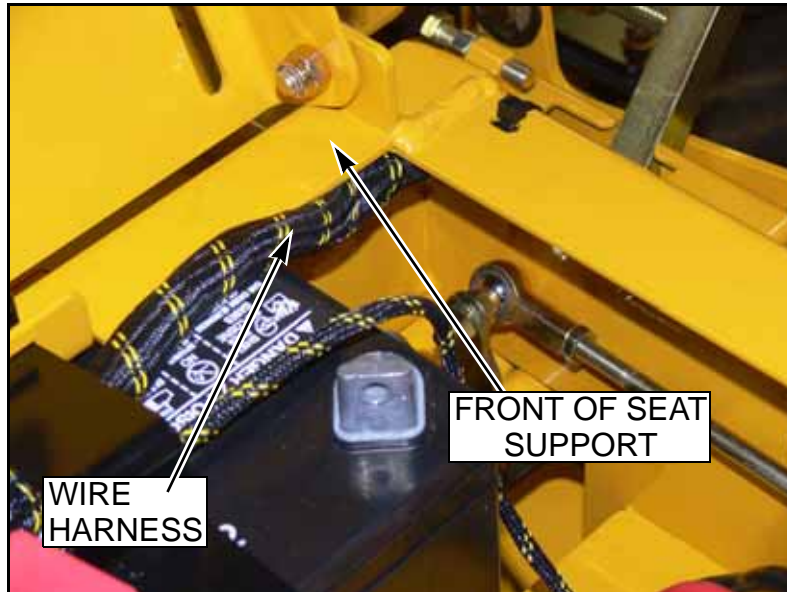


FIG. 4

Note: Push wire harness forward beneath front of seat support to insure it is not pinched by seat pan when seat pan is in down position.

Hydraulic hose routing (FIG. 5).

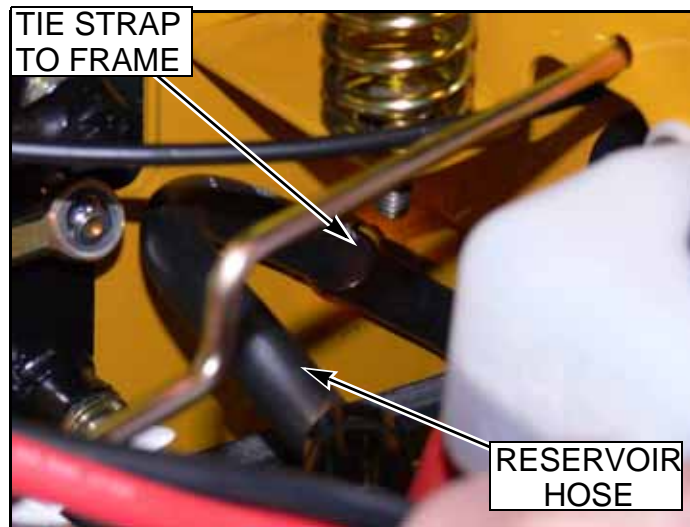


FIG. 5

Kawasaki engine connections. (FIG 8, 9, & 10) Remove lower cable clamp from right side of engine

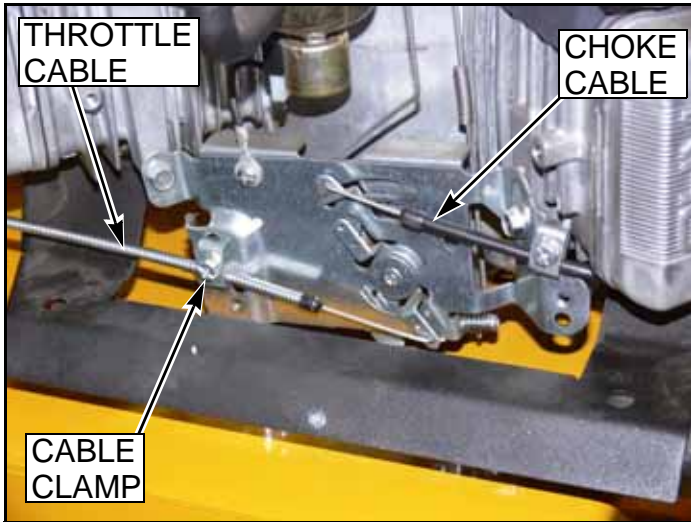


FIG. 6

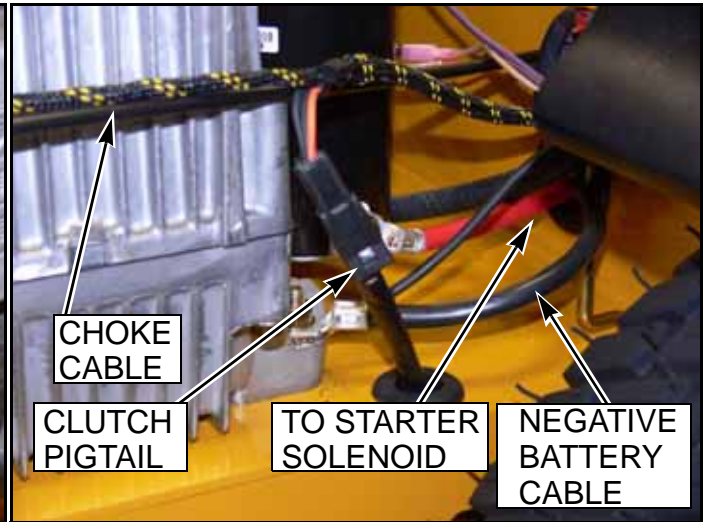


FIG. 7

plate and reinstall on left side as shown.

Fuel tanks and fuel line routing:

Internal fuel line placement: Ensure that suction hose is in lowest point in front of tank (FIG. 8).
Route fuel line from left tank to valve as shown in FIG. 9.

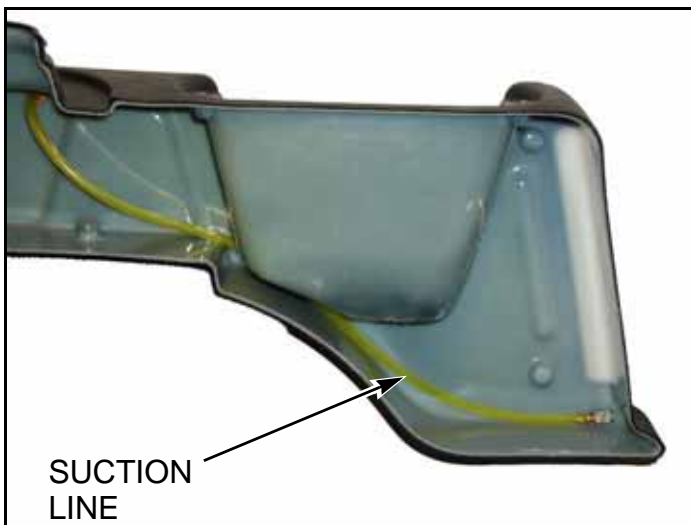


FIG. 8



FIG. 9

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.

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.

- s 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.
- s Follow daily and weekly checklists, making sure hoses are tightly secured and bolts are tightened.
- s 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.
- s **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.**
- s 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.
- s Never put hands or feet under any part of the machine while it is running.
- s Except when changing or checking belt, **always** keep belt covers on mower for safety as well as cleanliness.

- s 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!**
- s Exercise caution when loading or unloading the machine onto a trailer or truck.
- s Always wear safety goggles or safety glasses with side shields when operating the mower.
- s Never leave machine unattended with ignition key in switch, especially with children present.
- s Be alert and turn the machine off if children enter the area.
- s Always wear adequate eye protection when servicing the battery, hydraulic system, cooling system or when grinding mower blades and removing accumulated debris.
- s Use extra caution when handling gasoline and other fuels. They are flammable and vapors are explosive.
- s 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.
- s Never attempt to start engine when there is a strong odor of gasoline fumes present. Locate and correct cause.
- s 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.
- s 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.
- s 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.
- s Before working on or under the deck, make certain engine cannot be accidentally started. Shut engine off and remove ignition switch key for maximum safety. Repairs or maintenance requiring engine power should be performed by trained personnel only.
- s 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.
- s 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.
- s Do not touch hot parts of machine.
- s Keep nuts and bolts tight, especially the blade attachment bolts. Keep equipment in good condition.
- s Never tamper with safety devices. Check their proper operation regularly.
- s 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.
- s Use only genuine Hustler replacement parts to ensure that original standards are maintained

Using a ramp

- s Use extreme caution when loading and unloading a unit with a ramp.
- s 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.
- s Do not exceed a 15 degree angle between the ramp and the ground or between the ramp and the trailer or truck.
- s When on a ramp avoid sudden acceleration

Safety and instruction decals

- s 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 **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.



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.

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



Part Number
771436



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
793547

.Do not remove or modify stabilizer wheels or injury can occur. Keep a safe distance from machine. When operating on a slope (up to 15°) be aware of any conditions that may cause the tractor drive tires to lose traction resulting in a possible loss of control of the 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
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
793570

Never operate the mower deck with side deflector removed or in raised position, except when the grass catcher attachment is being used. Stay clear of mower blades as long as engine in running. Keep a safe distance from machine. Keep shields or covers in place while machine is in operation. Keep hands away from rotating pulleys and belts. Whirling blades! Keep hands and feet away. Beware of thrown objects.



Never operate the mower deck with side deflector removed or in raised position, except when the grass catcher attachment is being used. Stay clear of mower blades as long as engine is running.
Beware of thrown objects.

Maintenance

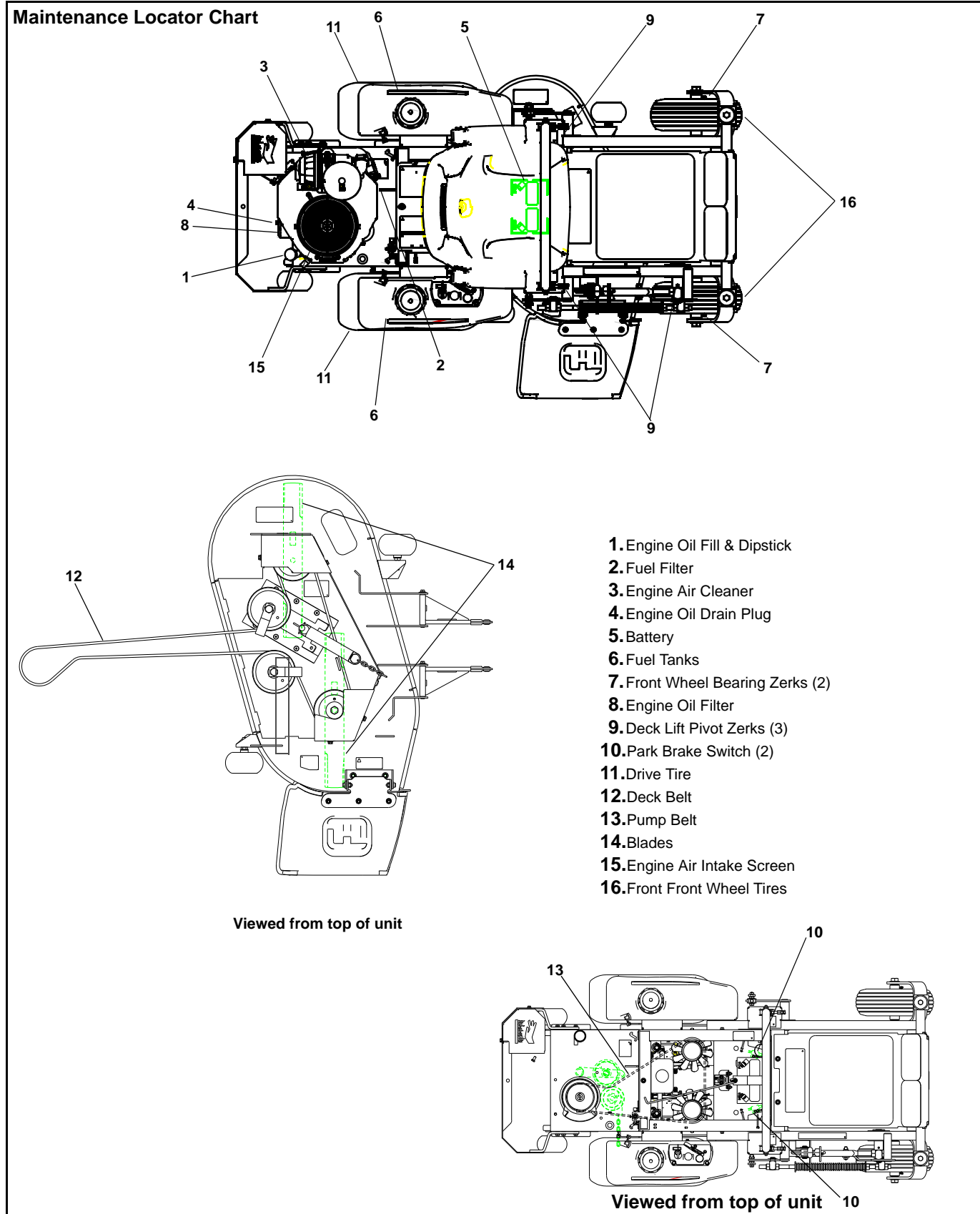


Fig. 9-1

SERVICE AT INTERVALS INDICATED	WEEKLY OR 50 HOURS	MONTHLY OR 100 HOURS	ANNUAL 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	DAILY OR EVERY 4 HOURS		
CLEAN AIR INTAKE SCREEN	DAILY OR EVERY 4 HOURS		
CLEAN FOAM ELEMENT	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 TRANSAXLE COMPARTMENT	DAILY		
REPLACE AIR CLEANER PAPER ELEMENT (4)	AS NEEDED		
CHANGE TRANSAXLE OIL AND FILTER	EVERY 200 HOURS OR 2 YEARS		
GREASE DECK HEIGHT PIVOTS	X		
GREASE FRONT WHEEL BEARINGS	X		
CHANGE ENGINE OIL AND FILTER (1) (3)	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 & RE GAP SPARK PLUGS (A)		X	
CHECK PUMP AND DECK BELT TENSION AND CONDITION (5)		X	
CHECK FUEL AND HYDRAULIC LINES (6)		X	
CHECK FUEL VALVE AND GROMMET (6)		X	
TIGHTEN LUG NUTS ON WHEELS (2)		X	
CHANGE FUEL FILTER			X
CHANGE HYDRAULIC FILTER AND OIL			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. Change engine oil filter per the engine manufacturer's recommendations. Refer to Engine Owner's Manual for recommendations and other maintenance items.
4. 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.
5. **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.
6. 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 under the seat platform 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, using jack stands or blocks, in the full up position and scrape the build-up from underneath.

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

Torque values



WARNING: Particular attention must be given to tightening the drive wheel lug nuts 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:

	Ft.-lbs.	Nm
Wheel (lug) nuts	65-75	88.14-101.7
Blade spindle bolt top	118	160.01
Blade spindle bolt bottom	118	160.01

Lug nuts only - 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 torque chart located elsewhere in this manual.

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

Tires

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

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

Lubrication

1. Grease the front 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.

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. 9-2.

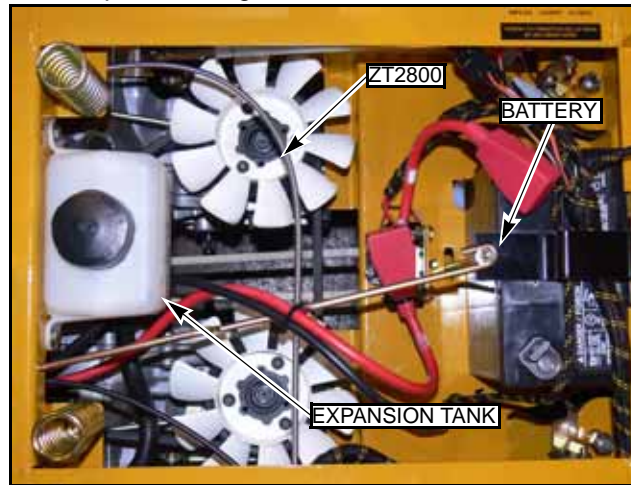


Fig. 9-2



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.



Fig. 9-3

The electrical system is protected by fuses located on the right fuel tank instrument panel. Fig. 9-3 The fuses are as follows:

- Main - 20 amp, blade-type
- Clutch/Aux - 10 amp, blade-type

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 ZT2800 transaxles

The integrated pump/motor units are accessed by lifting the seat platform. The seat platform is hinged at the front. To raise it, remove the lock nut and tilt seat platform up and forward. Fig. 9-4



Fig. 9-4

If the seat is equipped with the optional arm rest kit, 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 damage to the arm rests.

Hydraulic system

The Hustler Mini Z 36/42 is equipped with two Hydro-Gear ZT 2800 transaxles. Fig. 9-2

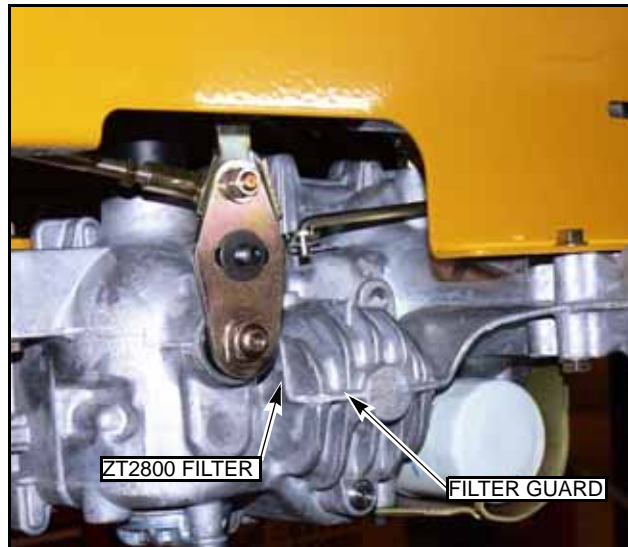


Fig. 9-5

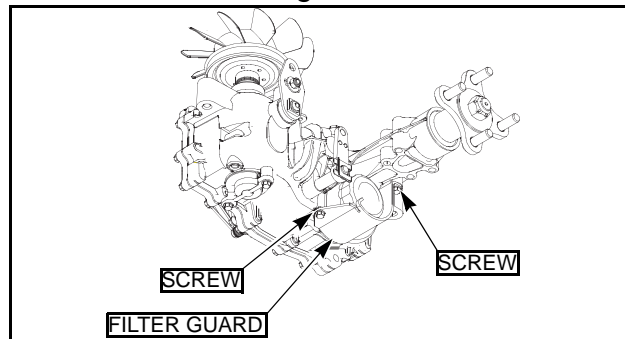


Fig. 9-6

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 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 disconnection of working on hydraulic lines. To relieve pressure, lower all attachments and shut off engine.

The hydraulic expansion tank is located in front of the engine and under the operator's platform. Fig. 9-2
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 at the "Full Cold" line on the expansion tank. Use only SAE 20W50 SL service motor oil.

Replace the filter and oil in each transaxle every 2 years or 200 hours, whichever comes first. **NOTE:** The filter guard must be removed to access filter.

Each transaxle's filter is located per Fig. 9-5. A standard oil filter wrench is used to change filter, threads are right handed. **Use a Hustler approved filter element only.**

IMPORTANT: Purging procedure must be followed after changing the oil and filter.



WARNING: When washing the mower, direct the spray away (especially if using a power washer) from the Hydro-Gear ZT 2800 transaxle's seals to prevent water intrusion and to ensure component performance.



WARNING: Make sure the transaxles are cool before performing service procedures.

Fluid changing procedure

1. Park the unit on a level surface. Place control levers in the park brake position, disengage deck clutch, remove ignition switch key and disconnect negative battery cable.
2. Remove the three 1/4" filter guard screws and filter guard. Clean any loose debris from around the filter Fig. 9-6
3. Place an oil drain pan beneath the oil filter and remove the oil filter from the transaxle.
4. After the oil has been drained, wipe the filter base surface off and apply a film of new oil to the gasket of the new replacement filter.
5. Install the new filter by hand, turn 3/4 to one full turn after the filter gasket contacts the filter base surface.
6. Re-install the filter guard with three 1/4" screws. Torque the screws to 65 in.-lbs. each.
7. Repeat steps 2 - 6 for the opposite side transaxle.
8. Drain oil filters of all free flowing oil prior to disposal. Place used oil in appropriate containers.
9. **IMPORTANT:** Remove the top port plug from both transaxles prior to filling with oil. This will allow the transaxles to vent during oil fill. Fig. 9-7
10. Remove the cap from the transaxle's expansion tank.
11. Fill with 20W50 motor oil until oil just appears at the bottom of each transaxles top port (approximately 2 qts. per transaxle). Install the top port plug into each transaxle as the oil level reaches this port. Torque plugs to 180 in. lbs. Clean up any oil that leaked from the ports. Fig. 9-7



Fig. 9-7

12. Continue to fill the transaxles through the expansion tank until the "Full Cold" line is reached on the expansion tank.
13. Re-install the expansion tank cap by hand. Be careful not to overtighten.
14. Proceed to the purge procedure.

Purging procedure

Due to the affects air has on efficiency in hydrostatic drive applications, it is critical that it is purged from the system. Air creates inefficiency because its compression and expansion rate is higher than that of the oil approved for use in hydrostatic drive systems.

These purge procedures should be implemented any time a hydrostatic system has been opened to facilitate maintenance or the oil has been changed.

The resulting symptoms in hydrostatic systems may be:

1. Noisy operation.
2. Lack of power or drive after short term operation.
3. High operation temperature and excessive expansion of oil.

Before starting, make sure the transaxle is at the proper oil level. If it is not, fill to the specifications outlined in this manual.

The following procedures are best performed with the vehicle drive wheels off the ground. Then repeated under normal operating conditions. If this is not possible, then the procedure should be performed in an open area free of any objects or bystanders.

1.Raise and block the tractor up so the drive wheels are off of the floor. Fig. 9-8

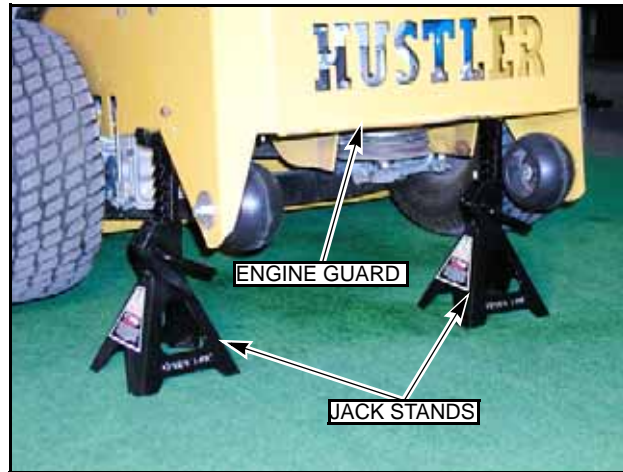


Fig. 9-8



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 switch. Fig. 9-9



Fig. 9-9

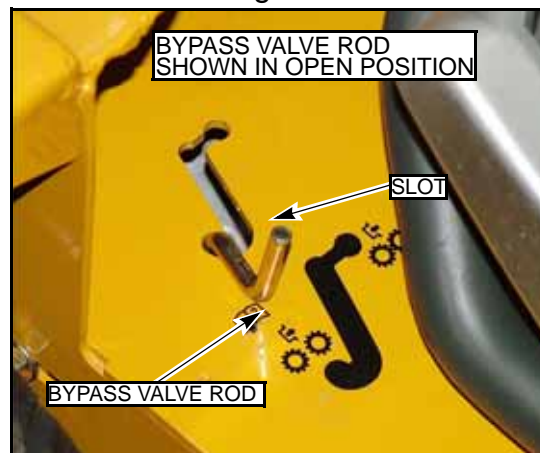


Fig. 9-10

3. With the bypass valve open and the engine running, slowly move the directional control in both forward and reverse directions (5 or 6 times). Fig. 9-10
4. With the bypass valve closed and the engine running, slowly move the control lever in both forward and reverse directions (5 or 6 times). Check the oil level, and add oil as required after stopping the engine.
5. It may be necessary to repeat Steps 3 and 4 until all the air is completely purged from the system. When the transaxle operates at normal noise levels and moves smoothly forward and reverse at normal speeds, then the transaxle is considered purged.

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.

The fuel tanks are located in the tractor's fenders. (Fig. 9-11) Total capacity for the fuel tanks is 6 U.S. gallons (23 liter).



Fig. 9-11

When filling the fuel tanks disengage deck clutch, place control levers in park brake position, and stop tractor engine. Clean around the fuel tank cap and remove the cap and begin filling. When finished, screw the cap on securely and wipe up any spilled gasoline.

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

IMPORTANT: IMPORTANT: Never use methanol, gasoline containing methanol, or gasohol containing more than 10% ethanol because the fuel system could be damaged. Do not mix oil with gasoline.

Using a fuel stabilizer/conditioner in the tractor can provide benefits such as:

1. Keeps gasoline fresh during storage of 90 days or less. For longer storage, drain the fuel tanks.
2. Cleans the engine during operation.
3. Eliminates gum-like varnish buildup in the fuel system.

IMPORTANT: Do not use fuel additives containing methanol or ethanol.

Add the correct amount of gas stabilizer/conditioner to the gas. Follow the gas stabilizer/conditioner manufacturer's directions for best results.

The fuel filter (Fig. 9-12) is installed in the fuel line between fuel tanks and engine fuel pump on the rear left side of the engine. Replace filter annually or after every 500 hours of operation, whichever occurs first.



Fig. 9-12

When replacing the fuel filter, check the fuel line hoses for any cracks or leaks. Replace as needed.

Fuel shut-off valve

The fuel shut-off valve (Hustler p/n 745059) is located behind the seat to the right side of the operator. (Fig. 9-13) Close this valve (center position) to prevent fuel flow to the engine. The valve's two other positions are left and right. To drain a fuel tank use the following method:



Fig. 9-13

1. Park the unit on a flat surface. Stop the engine and remove the ignition key. Make sure deck clutch switch is **in the down (OFF) position**. Place control levers in the park brake position. Disconnect negative battery cable.
2. Turn the fuel valve to the closed position (middle position). Fig. 9-13
3. Disconnect the tank to fuel valve line from the valve and clamp or cap the end of it.
4. Route the fuel line until it is lower than the fuel tank fitting
5. Place the end of the fuel line in a clean certified fuel container and unclamp or uncap the line to permit the fuel to drain from the fuel tank.
6. When fuel tank is drained, re-route the fuel line to the shut-off valve and attach it to the tee. Clamp fuel line to shut-off valve.
7. Fill fuel tank with proper grade of gasoline and open shut-off valve (left or right position).

Engine oil and filter

Check engine oil daily and after every 4 hours of operation. Crankcase dipstick and oil filler tube are located as shown in Fig. 9-14, Tractor must be setting level when checking oil. Refer to engine manual and maintenance schedule for oil recommendation and capacities.

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

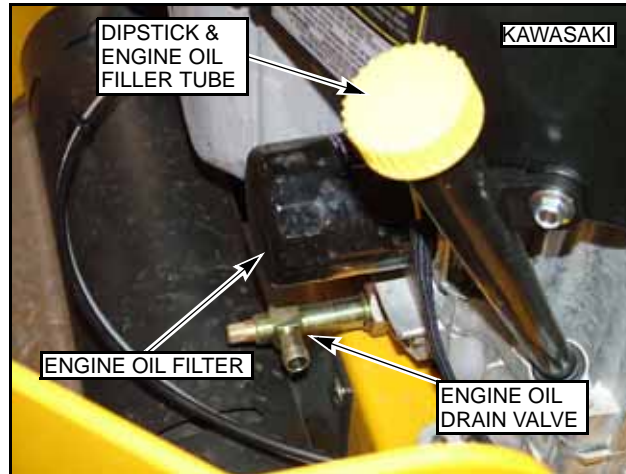


Fig. 9-14

Engine air filter

Perform engine air filter maintenance per the Service Interval chart shown elsewhere in this manual.

A specifically designed dry filter is standard equipment on these tractors and supplies clean combustion air to the engine.(Fig. 9-15)



Fig. 9-15

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.

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.

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 warranty for air filter 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: 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 and the filter element must be replaced.

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

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.

Drive belt replacement

Fig. 9-16 and Fig. 9-17 show diagrams and descriptions of the unit's belt drive systems.

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



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.

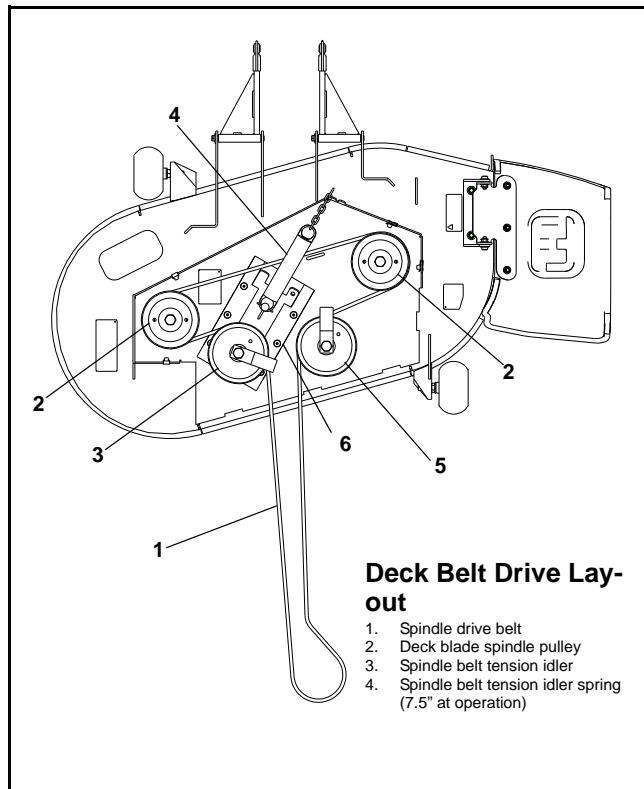


Fig. 9-16

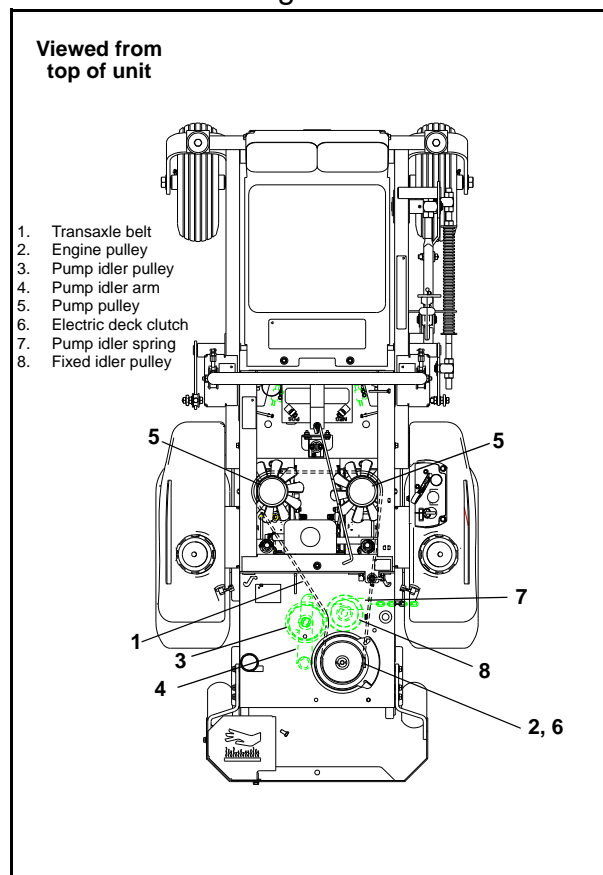


Fig. 9-17

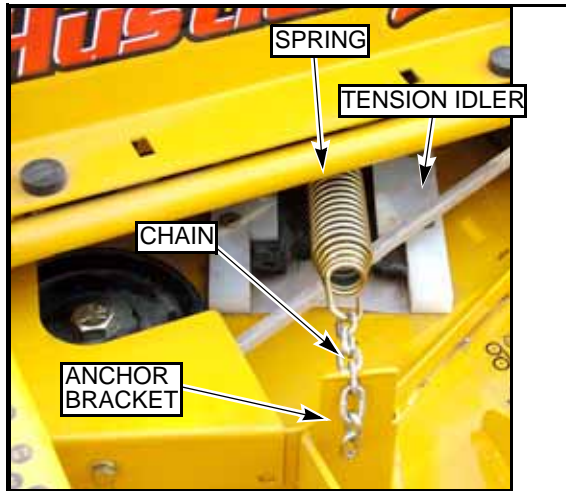


Fig. 9-18

Deck belt replacement procedure

1. Park the unit on a flat surface. Stop the engine and remove the ignition key. Make sure deck clutch switch is **in the down (OFF) position**. Place control levers in the park brake position. Disconnect negative battery cable.
2. Place the deck in the lowest position.
3. Remove the deck belt covers.
4. Release the deck belt tension by pulling on the belt tension chain and sliding the chain out of the anchor bracket slot. This will relieve the tension on the deck belt idler spring. Fig. 9-18
5. Pull the idler to the left of the machine to provide maximum belt clearance.
6. Remove the existing belt and replace with a new belt.
7. Route the new belt per Fig. 9-16.
8. Re-tension the deck belt idler per the Deck drive belt adjustment section located elsewhere in this manual.
9. Re-install the deck belt covers.
10. Re-attach the negative battery cable.

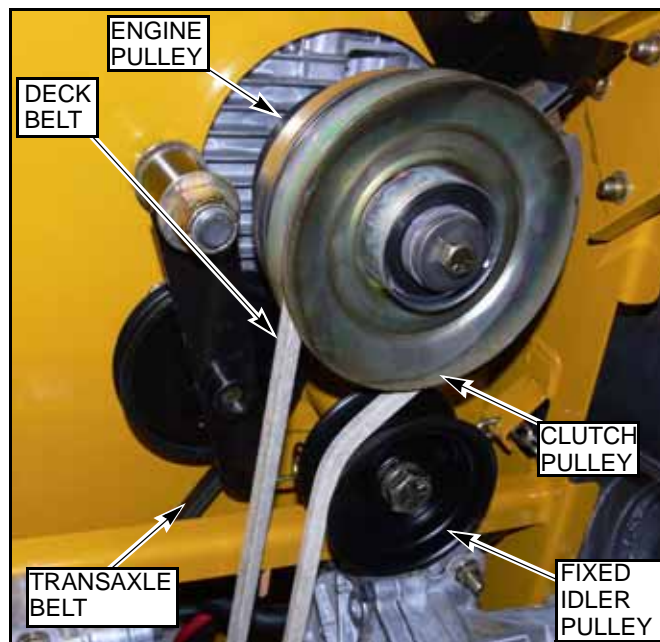


Fig. 9-19

Transaxle drive belt replacement procedure

1. Park the unit on a flat surface. Stop the engine and remove the ignition key. Make sure deck clutch switch is **in the down (OFF) position**. Place control levers in the park brake position. Disconnect negative battery cable.
2. Place the deck in the lowest position.
3. The deck belt must be removed from the clutch pulley first by releasing the deck belt tension by pulling on the belt tension chain and sliding the chain out of the anchor bracket slot. This will relieve the tension on the deck belt idler spring. Fig. 9-17
4. Remove the deck drive belt from the electric clutch pulley. This belt does not need to be removed from any of the other pulleys.
5. Remove fixed idler pulley. Fig. 9-19
6. Release the tension from the transaxle belt by pulling on the idler pulley (extending spring carefully) and sliding the belt over it. Use caution when releasing the idler pulley as there is still tension on it and it will snap back into position. Fig. 9-19
7. Slide the belt off the engine pulley. The belt will have to be slid above the engine pulley to allow the belt to be removed from the other pulleys. Fig. 9-19
8. Slide the belt over the transaxle pulleys.
9. The belt can now be removed from above the engine pulley.
10. Install new belt by sliding it up and over the engine pulley. Make certain it is not in the pulley groove at this time but is above the pulley.
11. Slide the belt over the transaxle pulleys.
12. Slide the belt onto the engine pulley.
13. Pull the idler pulley over and slide the belt onto it. Make certain to keep fingers from getting between the belt and the pulley when the pulley is released and tension is re-established.
14. Reinstall the fixed idler pulley.
15. Re-install the deck drive belt on the electric clutch pulley and make sure it is routed properly on all of the deck pulleys.
16. Re-tension the deck belt idler per the Deck drive belt adjustment section located elsewhere in this manual.
17. Re-attach the negative battery cable.

Mower blade maintenance

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

Replace any blade which is bent, cracked or broken.



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



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



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

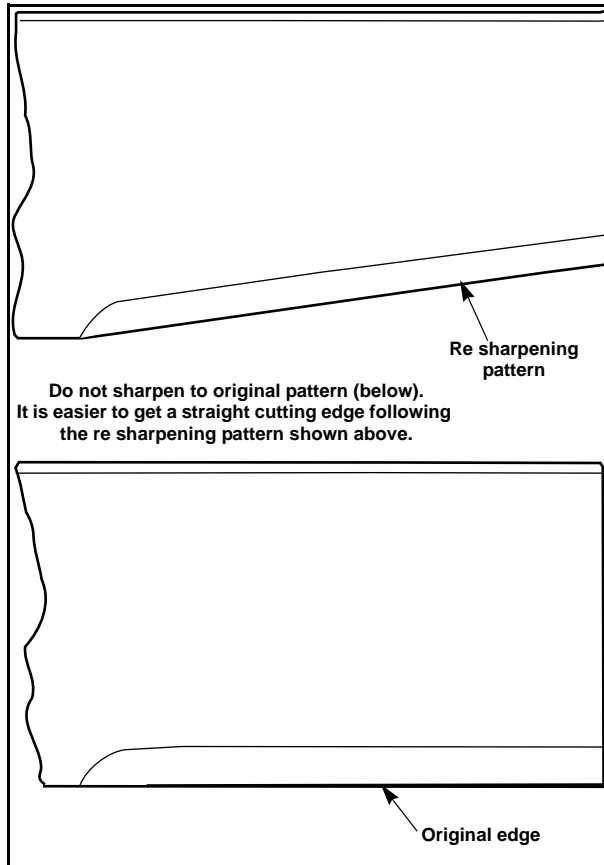


Fig. 9-20

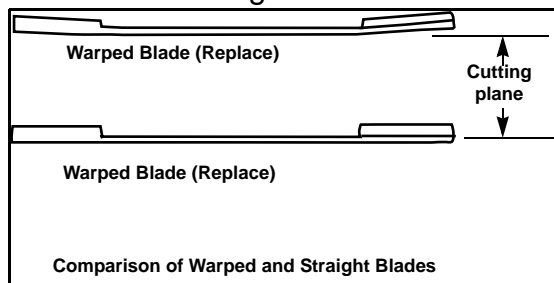


Fig. 9-21

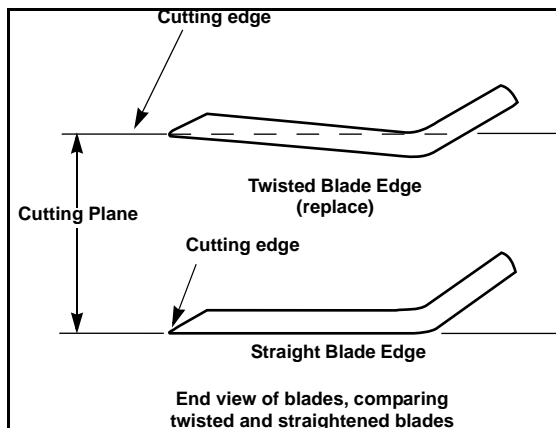


Fig. 9-22

Mower blade removal

Use a 15/16" wrench to remove the 5/8" cap screw holding the blade to the spindle shaft from underneath.

Blade Lock Tool, part number 381442, is available from your dealer to prevent the blades from turning while removing or and installing the blade bolts.

Sharpen the blades on a grinder following pattern as shown (Fig. 9-20). 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 5/8" 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. 9-21 and Fig. 9-22). Replace any distorted blade.

Do not re-use spindle bolts which have stripped, worn or undercut threads. Torque bolts on spindles to 118 foot-pounds when reinstalling blades.

IMPORTANT: The blade sail (curved part) must be pointing upward toward the inside of the deck to ensure proper cutting.



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.

Adjustments

Introduction

Your Huslter Mini Z 36/42 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 engine and under the seat platform areas; 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 Huslter service center when assistance is needed.

Seat adjustment

The seat can be adjusted forward and rearward by first removing the lock nut on the rear of the seat platform and tilting it forward (Fig. 9-4), Then loosen the four cap screws on the underneath side of the seat platform Fig. 9-23. Position the seat where you have the best control of the machine and are the most comfortable and then tighten the cap screws. Reinstall the locking nut.

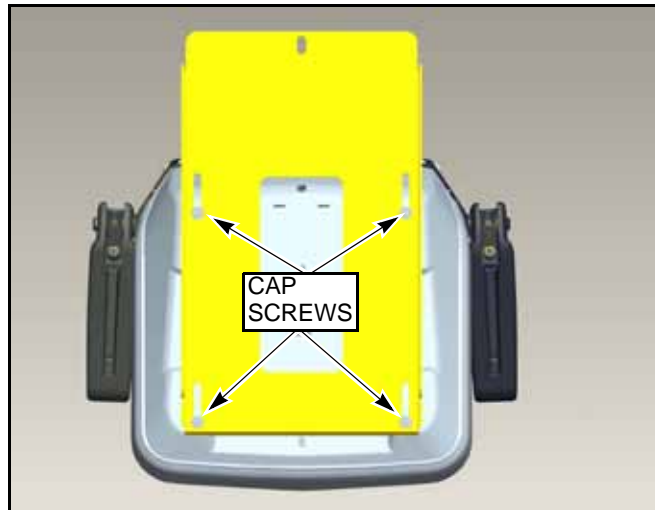


Fig. 9-23

Control lever adjustment

The control levers can be adjusted for operator comfort. By loosening the cap screws that attach the upper control lever to the lower lever (Fig. 9-24), the upper control lever can be pivoted to fit the operator's personal preference.

The control levers can also be adjusted up and down. Remove the cap screws and slide the upper control lever up or down and align the holes in it with the holes in the lower lever. Re-install the cap screws and tighten.

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

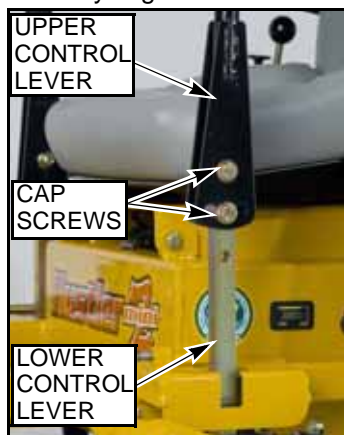


Fig. 9-24

Park brake adjustment

This procedure must be completed prior to control lever neutral adjustment

1. Park the unit on a flat surface, Stop the engine and remove the ignition key. Make sure deck clutch switch is in the **down (OFF) position**. Place control lever in the park brake position. Disconnect negative battery cable.
2. Raise the machine and remove the drive tires.



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.

3. Set the steering levers into the drive position - parking brakes are released.
4. Move steering lever to full reverse position. In this position, adjust brake actuator in ball joint with stud to achieve approximately $1/8$ " gap between the locking nut and the brake over-travel spring (Fig. 9-25) If not, then loosen the jam nut locking the "ball joint with stud" (Fig. 9-26) and turn brake rod actuator to achieve the desired dimension. Retighten jam nut, locking the brake rod actuator in place.
5. Move steering levers into the park brake position. Fig. 9-29 The brake over-travel spring length should measure between $.85$ " and $.95$ ". (Fig. 9-27) Adjust locking nut accordingly (Fig. 9-28).

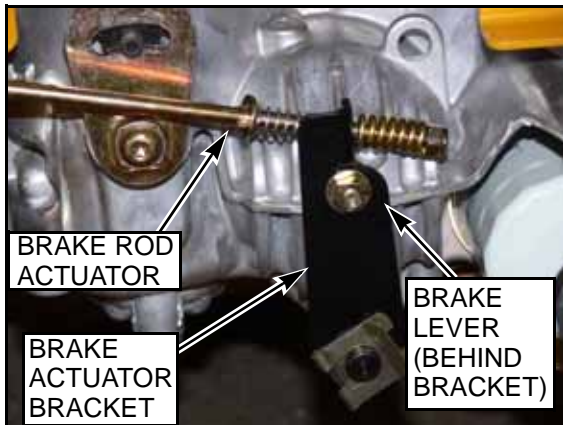


Fig. 9-25

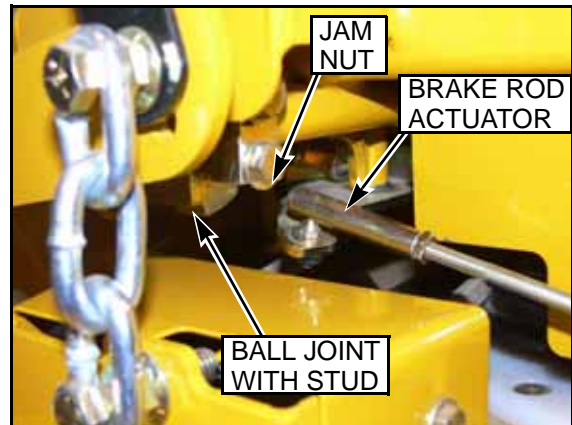


Fig. 9-26

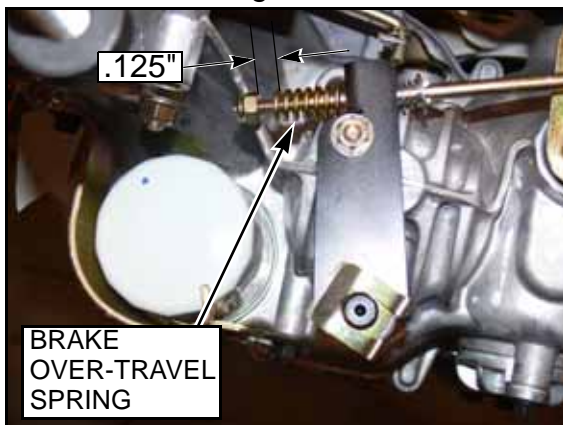


Fig. 9-27

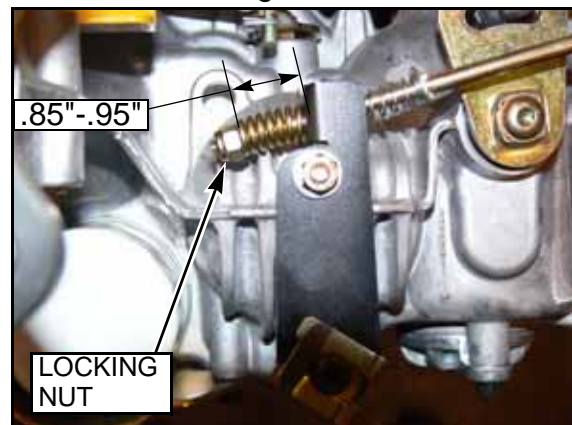


Fig. 9-28

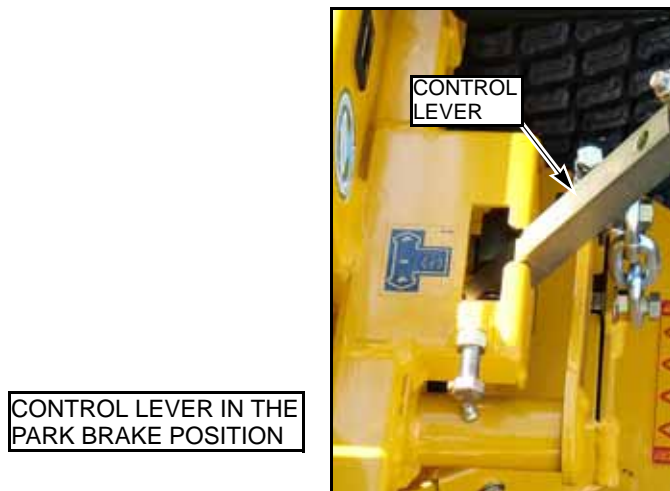


Fig. 9-29

6.Reinstall drive wheels, and torque wheel nut to specification.

Steering linkage adjustment

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. 9-30). However, should the tractor begin to creep, the control lever linkage can be adjusted as follows:

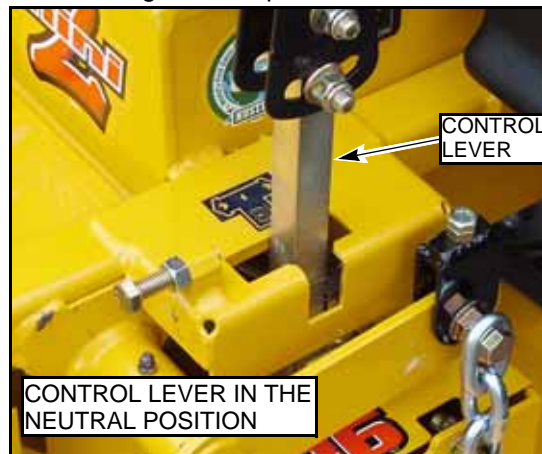


Fig. 9-30

Control Lever Neutral Adjustment

Before considering any adjustment, check the tire air pressure. Unequal tire pressure will cause the tractor to drift to one side. Refer to tire pressure information in the Maintenance section of this manual.

NOTE: Proper park brake adjustment must be completed before the control lever neutral adjustment can be done.

Fine adjustment to the unit's steering is made with the transaxle control rod. Fig. 9-31

Neutral is properly adjusted when the control levers are in the park brake position and the ZT 2800 transaxles do not "whine" . Fig. 9-29

If this occurs, the control linkage may be adjusted as follows:

- 1.Raise and block the tractor frame keeping the rear drive tires free and clear of any obstructions so they are free to rotate. The engine will be running and tires rotating during this operation.



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.Remove the seat pan lock nut as shown in Fig. 9-4. Tilt the seat platform forward. Temporarily bypass the seat switch.

3. Loosen the front dampener ball stud nut as shown in Fig. 9-31. The dampener will be adjusted and tightened after neutral is reset.

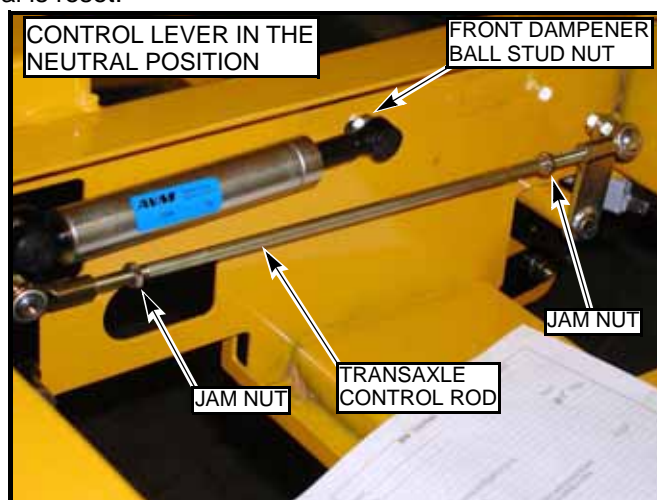


Fig. 9-31

4. Staying clear of the rear drive tires, start the engine. If the ZT2800 transaxles whine, then the neutral setting needs to be re-adjusted. In this operation, you will need to adjust one side at a time. If either side whines significantly, then the steering lever needs to be pushed into the operating position, disengaging the brake. Most likely when the brake is disengaged, the drive wheel will begin to rotate even though the steering lever is in the neutral position.
5. Shut off the machine. Loosen the jam nuts on each end of the transaxle control rod as shown in Fig. 9-31.
6. Start the engine. Move the control lever to just engage the brake (neutral) slot and hold it in that position (Do not engage the control lever far enough to engage the brakes in the brake slot).



WARNING: This operation is extremely dangerous. Pay close attention when adjusting the pump control rod so you do not get your fingers, tools, or anything else close to the ZT2800 transaxle's cooling fans.

7. While holding the control lever position discussed in step 6, carefully adjust the transaxle control rod until the rear wheel starts turning forward. Now turn the transaxle control rod in the opposite direction until the moment when the wheel just stops turning forward. Turn the control rod another 1/2 turn in this direction. Hold the transaxle control rod in this position and actuate the parking brake with steering lever. The ZT 2800 transaxle should not whine. Fig. 9-30
8. Hold the transaxle control rod still and turn off the engine.
9. Tighten the jam nuts on each end of the transaxle control rod. **NOTE:** Do not let transaxle control rod turn while tightening the jam nuts. Fig. 9-31
10. Neutral is now set. Start the engine and actuate the brakes a few times to confirm that the ZT 2800 transaxle does not whine when the park brake is set.
11. Repeat for the other side.
12. The steering dampener now needs to be adjusted and tightened. Fig. 9-31
13. **IMPORTANT:** Reconnect the seat switch and make sure the seat switch is operating properly. Refer to the machine's owner's manual for operation check.



WARNING: Do not operate machine without a properly functioning seat safety switch.

Steering damper adjustment

The steering dampener 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.

If the tractor does not return to neutral from reverse then adjust as follows:

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

1. Shut engine off, place control levers in the park brake position, disengage deck clutch, remove ignition switch key and disconnect negative battery cable before doing any adjustments.
2. If you have not already done so, loosen the front ball stud that is attached to the forward damper socket. Fig. 9-31

3. When the ball stud loosened, pull out on the front ball stud end and release. The damper will return to the neutral position and come to rest. Re-tighten the front ball stud. Fig. 9-31
4. Release the park brake and pull the steering lever to the reverse position and allow the damper to return the lever to the neutral position. If the steering lever does not return to the neutral position (centered with the brake slot), then either the damper is still not adjusted correctly, or it is damaged and needs to be replaced.
5. Repeat for the opposite side.

Park brake switch adjustment

Occasionally check the park brake spring adjustment using the following method:

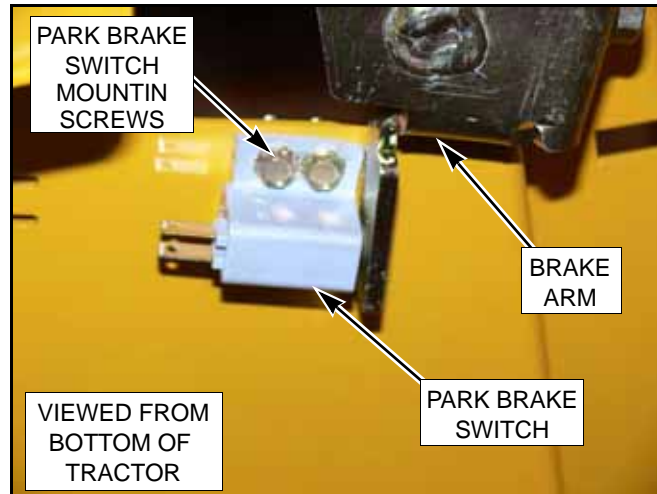


Fig. 9-32

1. Shut engine off, place control levers in the park brake position, disengage deck clutch, remove ignition switch key and disconnect negative battery cable before doing any adjustments.
2. Loosen the screw holding the switch.
3. Slide the switch toward the park brake arm until switch is activated.
4. Tighten screws holding the switch.
5. Repeat for the other side.

Transaxle drive belt adjustment

The transaxle drive belt tension remains constant by means of a tension idler and spring (Fig. 9-33). When tensioned properly, the spring should measure 4½" to 5½", measured from outside of hook to outside of hook. **NOTE: Inspect the belt every 100 hours and replace as needed. Replace the belt every 200 hours or every two (2) years whichever comes first.**



WARNING: If the transaxle 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.**

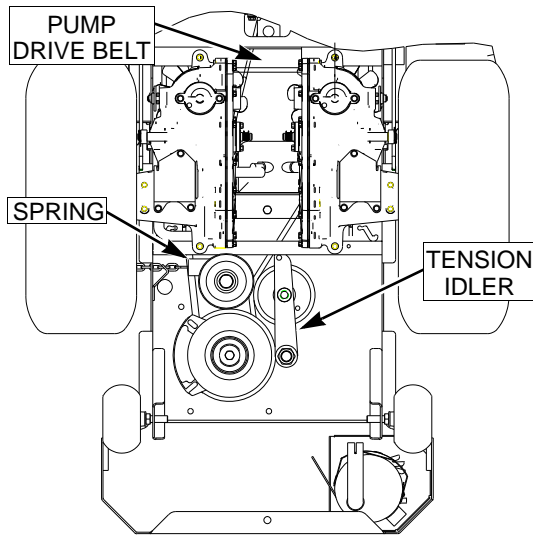


Fig. 9-34

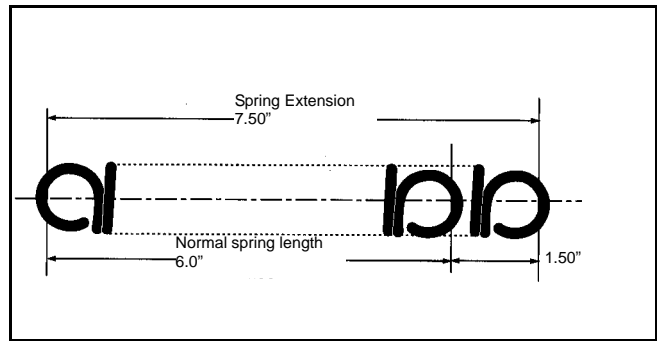


Fig. 9-35

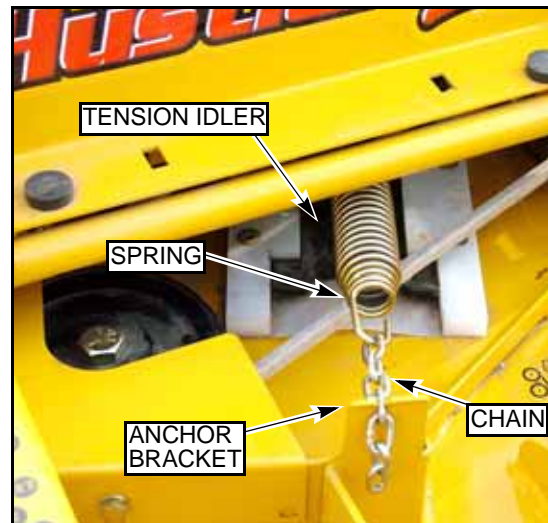


Fig. 9-35

Deck drive belt adjustment

The spindle belt tension remains constant by means of a tension idler and spring (Fig. 9-34). 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. 9-34). Installed spring length should be 7.50" \pm .3" (19.05 cm \pm .76 cm) originally with adjustments of .60" (15.2mm) per chain link. (Fig. 9-35)

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

Engine RPM setting

The Mini Z 36/42 is designed so that the engine will run at 3600 rpm with transaxle load only. At this speed the transaxles 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 - 10 psi
 Front wheels tire pressure 8 - 10 psi



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

2. Park the unit on a flat surface.

3. Raise deck and place 3" of blocking under all 4 corners of the deck (Fig. 9-36). This will set the cutting height at 3 ¼".

NOTE: Back of deck will automatically be set ¼" higher.

NOTE: Remove the height adjusting stop and let the deck down so that it rests on the 3" blocks. Make sure the deck is setting on all four blocks. Leave the height adjusting stop out of the height adjusting bar for now. The deck should be leveled before the cutting height is set. Fig. 9-37

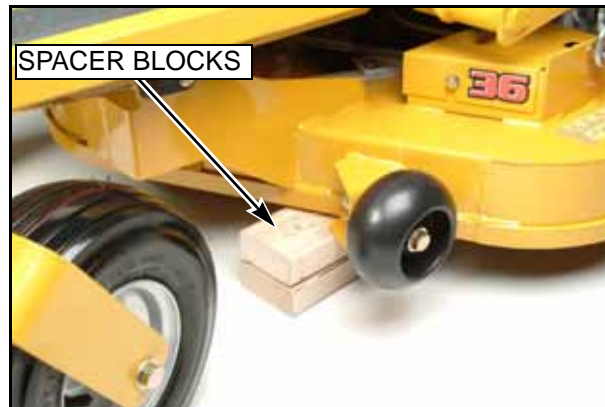


Fig. 9-36

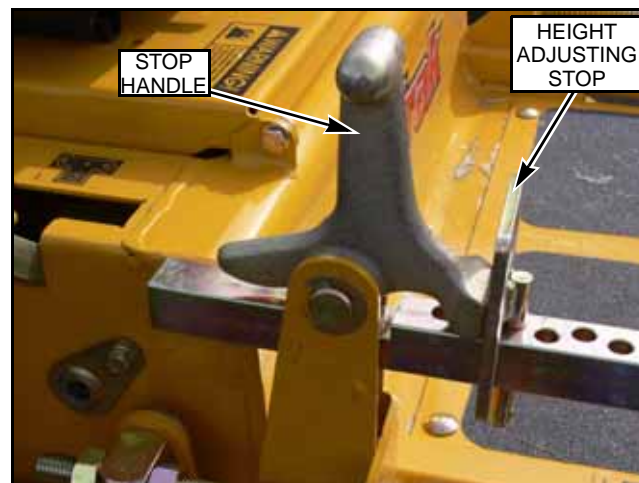


Fig. 9-37

4. Loosen the two nuts that hold the height adjusting bar in position. Fig. 9-38
5. Loosen the two nuts that hold the right rear deck lifting arm. Fig. 9-39
6. Loosen the left rear deck leveling bracket by loosening the flange nuts. Fig. 9-40
7. Loosen the jam nut and back out the 5/16" bolt on top of the adjuster. Fig. 9-40
8. Check to make sure the deck is resting firmly on all of the 3" blocks. Check the front right deck chain to be sure it is taut. Now, screw both nuts finger tight against the square block on the right rear deck lift arm. Tighten these two nuts. Fig. 9-39
9. Tighten the 5/16" bolt on the adjuster until the chain is taut, tighten the jam nut against the adjuster. Tighten the two flanged nuts. The deck should be level. Fig. 9-40
10. To Adjust the deck height, insert the height adjusting stop into the 3 ¼" position. Fig. 9-37
11. Tighten the rear nut against the block attached to the deck lifting pedal finger tight. Make sure the stop handle is pushing firmly against the height adjusting stop so that there is no free play forward or rearward when you move the adjustment bar. Fig. 9-38
12. Finger tight the front nut against the block attached to the deck lifting pedal. Tighten both nuts and check to make sure that all deck linkage hardware is tight. Fig. 9-38
13. Raise the deck into the transport position and remove the 3" blocks from under the deck corners. The deck should now be level and the deck cutting height properly adjusted.



Fig. 9-38

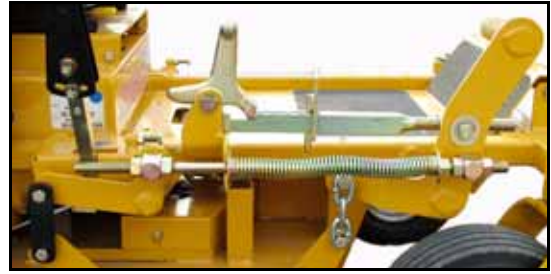


Fig. 9-39



Fig. 9-40

Numerical Index

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
Index					
Part Numbers					
000323	4-7	061572	3-11	360487	3-11
000331	4-7	063198	3-11	364315	3-7, 6-7, 6-13
005108	3-11	063297	6-3, 6-9	366625	5-2
005116	6-7, 6-13	064006	6-13	546937	6-5
005355	4-3	068478	1-1	547844	6-9, 6-11
008979	4-3	068551	3-11	547851	2-2
015495	3-5	079186	3-11	547863	6-3
015511	5-3	083279	8-3	547869	2-2
015818	4-7	086660	2-4, 3-11, 6-5, 6-11, 7-4	600221	3-11
016816	4-3	100867	6-7	600668	5-4
017004	4-3	100875	6-7, 6-13	600676	5-4
017616	7-2	105031	6-7, 6-13	600684	5-4
019521	5-3, 5-4	105031	6-7, 6-13	600692	5-4
023655	3-11	105155	6-13	600700	5-4
024927	3-3, 3-11	105296	6-9, 6-11	600718	5-4
025007	3-7, 6-7, 6-13	107011	2-4	600726	1-1, 6-7
025296	3-5, 3-7, 5-2	107300	2-2	600734	1-1, 6-13
025395	2-4	107318	2-2	600759	3-7
026237	4-9	107608	4-3	600767	3-7
028118	3-7, 6-7, 6-13	107630	7-4	600878	3-11
029868	3-3	107631	3-3	600880	3-7
029876	3-11, 4-3	107633	3-7	600881	3-7
030817	3-3	107637	2-4	600895	3-11
031997	2-3, 6-3, 6-5, 6-9, 6-11	107644	3-7	600896	3-11
		107654	1-1	600899	8-3
034272	3-5, 3-7, 3-11, 4-3, 6-3, 6-5, 6-9, 6-11	107696	1-1	600900	6-7
		107708	1-1	600901	6-7, 6-13
034280	4-3, 6-3, 6-5, 6-7, 6-9, 6-11, 6-13, 7-4	107794	6-3	600902	4-3
		108071	4-3	600903	4-3
036244	7-4	108467	3-11	600904	4-3
036384	3-7	108468	3-11	600906	4-3
043570	4-7	108588	3-11	600907	4-3
044255	3-3	108598	3-11	600941	8-3
045765	5-2	112877	6-5, 6-11	600965	3-7
045898	4-9	263517	5-2	600970	3-7
048553	3-11	315572	6-5	600972	3-7, 3-11
050161	4-3	321059	4-9	600974	3-7
052860	2-4, 4-3, 7-4	322974	6-3, 6-5, 6-9, 6-11	600975	3-7
053199	2-3, 6-3, 6-5, 6-9, 6-11	324046	3-7	600976	1-1, 3-7
		325464	3-11	600992	2-4
054502	2-4, 3-7, 3-11, 6-3, 6-7, 6-9, 6-13	330225	6-5	601055	3-7
		330274	4-3	601069	6-3, 6-5, 6-9, 6-11
055749	3-5, 7-2	334045	3-5	601088	3-11
055822	4-7	344267	2-3, 5-2	601096	4-9
055939	3-3, 3-7, 3-11	347443	6-7, 6-13	601099	8-3
055947	4-9	348284	3-5	601117	6-3, 6-9
058776	6-3, 6-7, 6-9, 6-13	348318	3-5	601162	3-7
058842	3-11	348458	3-5	601196	3-7
059832	3-11, 4-9	352724	6-3	601197	3-7
061077	5-4	353961	1-1	601200	3-11
061101	3-7, 5-2	357103	6-9	601201	3-11
		360131	3-5	601211	3-11

Part No.	Page No.	Part No.	Page No.	Part No.	Page No.
601212	3-3	776476	4-9	788794	1-1, 3-7
601218	4-3	779306	4-7	788968	8-3
601219	3-7	781153	3-7	791251	4-3
601221	3-7, 3-11	781211	3-11	791558	4-3
601325	4-3	781229	3-5	792226	7-4
601421	8-3	781260	3-11	792762	3-3
601434	6-7, 6-13	781294	3-5	792796	4-7
601474	3-7	781302	6-7, 6-13	792960	4-7
601806	6-5, 6-11	781427	8-3	792978	4-7
601824	6-5, 6-11	781567	2-3, 3-11, 6-3, 6-5,	793059	3-11
601843	6-5, 6-11		6-9, 6-11, 7-2	793489	3-3
601941	3-7	781583	3-11	793513	8-4
704643	3-5, 7-2	781708	2-3, 6-3, 6-5, 6-9,	793521	8-5
704775	3-11		6-11	793547	8-3
704932	4-9	781831	3-5	793570	8-4, 8-5
705178	3-11	781856	6-7, 6-13	793588	8-3
705954	5-2	781872	6-7, 6-13	793612	3-11
710087	3-7	781880	2-4, 4-7	793646	3-11
712257	4-9	781922	3-11	793687	8-4, 8-5
712372	4-3	782474	6-7, 6-13	793703	8-3
712976	5-2	782573	8-3	793851	7-4
714998	4-9	782664	4-3	794206	1-1
718288	3-11	782995	3-5	794214	1-1
727016	8-3	783506	6-7, 6-13	794222	1-1
727172	8-4, 8-5	784199	6-7, 6-13	794230	1-1
740696	3-3	784223	5-2	794297	8-4, 8-5
745059	4-7	784603	5-2	794396	3-11
747402	5-3	784835	4-3	794503	8-5
748681	4-3	784918	4-3	796524	4-3
756270	3-5	785030	4-9	796656	6-7, 6-13
761726	1-1	785048	4-3	796664	6-7
763417	4-3	785139	8-3	797365	6-3, 6-9, 6-11
767954	2-4, 3-11, 4-3, 4-7,	785147	8-3	797753	3-11
	6-3, 6-5, 6-7, 6-9,	785220	8-3	797779	3-11
	6-11, 6-13, 7-4	785485	2-4	797795	1-1
767962	2-3, 3-5, 6-3, 6-5,	785808	4-9	797803	4-3
	6-9, 6-11, 7-2	786061	5-2	797811	4-3
768259	3-11	786079	5-3	797845	8-4, 8-5
768515	3-3, 3-7, 3-11, 4-9	786103	5-3	797852	1-1
768523	3-7, 3-11, 4-3, 6-3,	786632	3-3, 4-3	797969	3-5
	6-5, 6-7, 6-9, 6-11,	786640	3-3, 4-3	799429	4-3
	6-13, 7-4	786731	5-2	808477	2-2
769166	4-9	786814	8-3	808485	4-3, 6-3, 6-9
771428	3-3	786848	3-7	808493	2-2
771436	8-3	788166	2-3, 6-3, 6-5, 6-9,	928192	1-1
772079	1-1		6-11	928200	1-1