

Hustler Super Z ***Parts Manual***



HUSTLER®
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Hustler Turf Equipment

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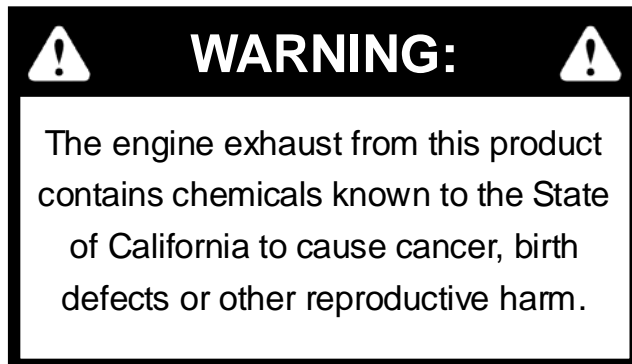
P.O. Box 7000

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Hesston, Kansas

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67062-2097



NOTICE OF REQUIREMENT OF SPARK ARRESTER MUFFLER

This equipment may create sparks that can start fires around dry vegetation. California Public Resources Code Section 4442.6 provides that it is unlawful to use or operate an internal combustion engine on any forest-covered, brush-covered, or grass-covered land unless the engine is equipped with a spark arrester maintained in effective working order. A spark arrester is a device constructed of nonflammable materials specifically for the purpose of removing and retaining carbon and other flammable particles over 0.0232 of an inch in size from the exhaust flow of an internal combustion engine that uses hydrocarbon fuels or which is qualified and rated by the United States Forest Service. Other states or federal areas may have similar laws. The Operator Should Contact Local Fire Agencies For Laws or Regulations Relating to Fire Prevention Requirements. **THIS EQUIPMENT DOES NOT HAVE A SPARK ARRESTER AND YOU SHOULD CONTACT YOUR AUTHORIZED DEALER FOR THE PURCHASE OF A SPARK ARRESTER.**

Inspect spark arrester daily; replace every 500 hours or as needed.

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

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

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Section 1

General Information

This Manual covers Hustler XR7 Super Z models: 927467, 927467EX, 927624, 927624EX, 927673, 927681, 927848A/B, 927855A/B, 927871A/B, 927889A/B, 927897A/B, 927913A/B, 927921A/B, 927939A/B, 927947A/B, 927970A/B, 927988A/B, 927988EX, 928010A/B, 928010EX, 928028A/B, 928028EX, 928036A/B, 928036EX, 928044A/B, 928044EX, 928044HTA/B, 928044HTEX, 928051A/B, 928051EX, 928069A/B, 928069EX, 928879A/B, 928879EX, 928887A/B, 928887EX, 928887HTA/B, 928887HTEX, 928895A/B, 928895EX, 928911A/B, 928911EX, 928929, 928929EX, 928937 & 928937EX with serial numbers higher than 07020000.

Frequently Ordered Parts

PART NO.	DESCRIPTION
783936	Hydraulic Oil Filter
781443	Pump Drive Belt
798702	Blade, F24.50"-H-F-CW (72" Side Discharge Deck)
798496	Blade, F22.50"-H-F-CW (66" Side Discharge Deck)
794685	Blade, F20.50"-H-F-CW (60" Side Discharge Deck)
797696	Blade, F18.50"-H-F-CW (54" Side Discharge Deck)
796508	Blade, F23.86-L-F-CCW (72" Rear Discharge Deck)
796839	Blade, F23.86-L-F-CW (66" Rear Discharge Deck)
795633	Blade, F20.50"-L-F-CCW (60" Rear Discharge Deck)
600901	Blade, F20.50"-L-F-CW (60" Rear Discharge Deck)
784207	Belt, B-Section (72" Side Discharge Deck)
797936	Belt, B-Section (66" Side Discharge Deck)
797720	Belt, B-Section (60" Side Discharge Deck)
797928	Belt, B-Section (54" Side Discharge Deck)
797167	Belt, 72" Rear Discharge Deck
795781	Belt, 60" Rear Discharge Deck
068478	Fuel Filter
785261	Main Air Filter Element
785279	Safety Air Filter Element
601652	Main Air Filter Element (KAW 31 only) (Prior to S/N 10062494)
601653	Safety Air Filter Element (KAW 31 only) (Prior to S/N 10062494)
772079	Kawasaki Engine Oil Filter
785634	Honda Engine Oil Filter
747303	Kohler Engine Oil Filter

Service Literature

PART NO.	DESCRIPTION
601656	Owner's Manual
785642	Honda 18/20/24 Engine Owner's Manual
778423	Kawasaki 19–25 HP Engine Owner's Manual
742684	Kohler Engine Owner's Manual
601637	Kawasaki 29 HP Engine Owner's Manual
601615	Kawasaki 31 HP Engine Owner's Manual
796805	Kawasaki 26 HP Engine Owner's 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
108557	"A" Baffles Kit XR7 (72" Side Discharge Deck)
108556	"A" Baffles Kit XR7 (66" Side Discharge Deck)
108555	"A" Baffles Kit XR7 (60" Side Discharge Deck)
108554	"A" Baffles Kit XR7 (54" Side Discharge Deck)
108552	"B" Baffles Kit XR7 (72" Side Discharge Deck)
108551	"B" Baffles Kit XR7 (66" Side Discharge Deck)
108550	"B" Baffles Kit XR7 (60" Side Discharge Deck)
108549	"B" Baffles Kit XR7 (54" Side Discharge Deck)
108562	Containment Baffles Kit (72" Side Discharge Deck)
108561	Containment Baffles Kit (66" Side Discharge Deck)
108560	Containment Baffles Kit (60" Side Discharge Deck)
108559	Containment Baffles Kit (54" Side Discharge Deck)
108565	Mulch Kit (66/72" Side Discharge Deck)
108563	Mulch Kit (54/60" Side Discharge Deck)
106880	Stripe Kit (66/72" Side Discharge Deck)
107359	Stripe Kit (54/60" Side Discharge Deck)
798728	Gator Blade, 24.50"-GAT-F-CW (72" Side Discharge Deck)
798512	Gator Blade, 22.50"-GAT-F-CW (66" Side Discharge Deck)
794230	Gator Blade, 20.50"-GAT-F-CW (60" Side Discharge Deck)
797712	Gator Blade, 18.50"-GAT-F-CW (54" Side Discharge Deck)
798710	Mulch Blade, 24.50"-MUL-F-CW (72" Side Discharge Deck)
798504	Mulch Blade, 22.50"-MUL-F-CW (66" Side Discharge Deck)
794214	Mulch Blade, 20.50"-MUL-F-CW (60" Side Discharge Deck)
797704	Mulch Blade, 18.50"-MUL-F-CW (54" Side Discharge Deck)
102186	Deck Lift Kit MMZ
107662	Oil Cooler Screen
353961	Steering Extension Kit
357897	Hitch Kit MMZ
799270	Flex Fork Kit
789537	Semi-Pneumatic Tire/Wheel Assy 13 X 6.50-6
601126	MMZ Foldable ROPS Kit
927582	Snow Blade
928218	Bac-Vac Catcher Assy (Requires additional kits for installation, see dealer)

Hardware Description Codes & Abbreviations

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

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

Standard Torques

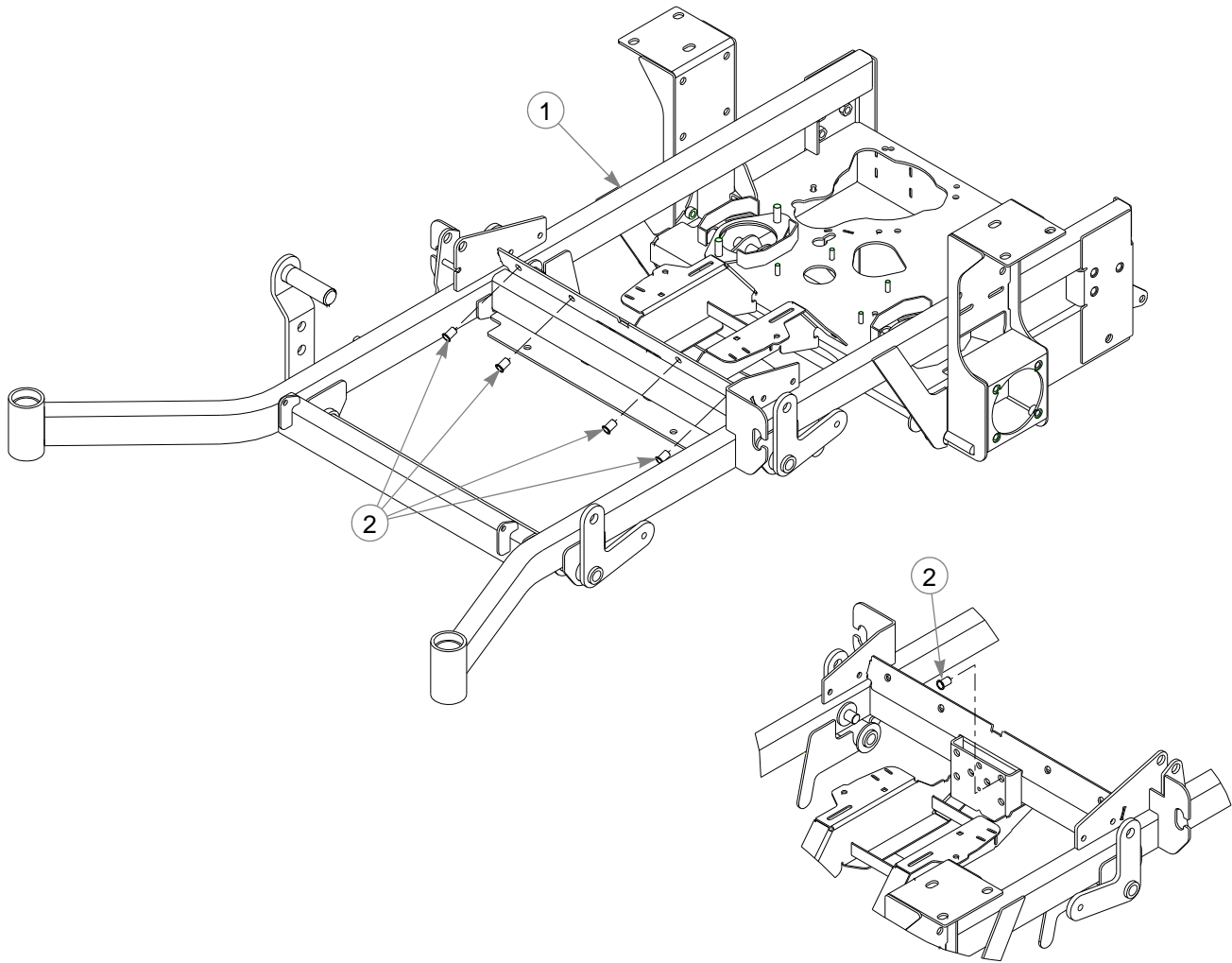
The following chart lists the standard torque values for the threaded fasteners found in this manual. Torque all cap screws, nuts and set screws to these values unless a different torque is shown in the Notes section next to the fastener.

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

Section 2

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Frame Rivet Nut Installation

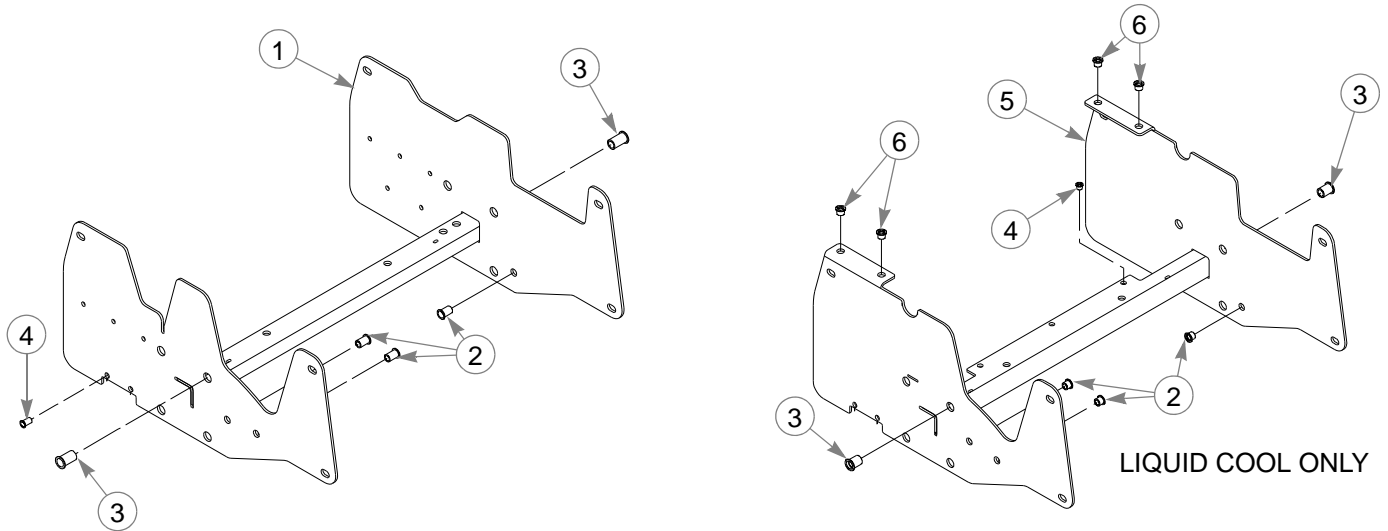


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	547992	103531	1	MOWER FRAME (54")
	547786	352278	1	MOWER FRAME (60")
	547778	103952	1	MOWER FRAME (66")
	547984	107616	1	MOWER FRAME (72")
	548016	100412	1	60" RD MOWER FRAME
	548024	101808	1	72" RD MOWER FRAME
	2	N/A	808493	10

NOTES:

Seat Support Rivet Nut Installation

1 2

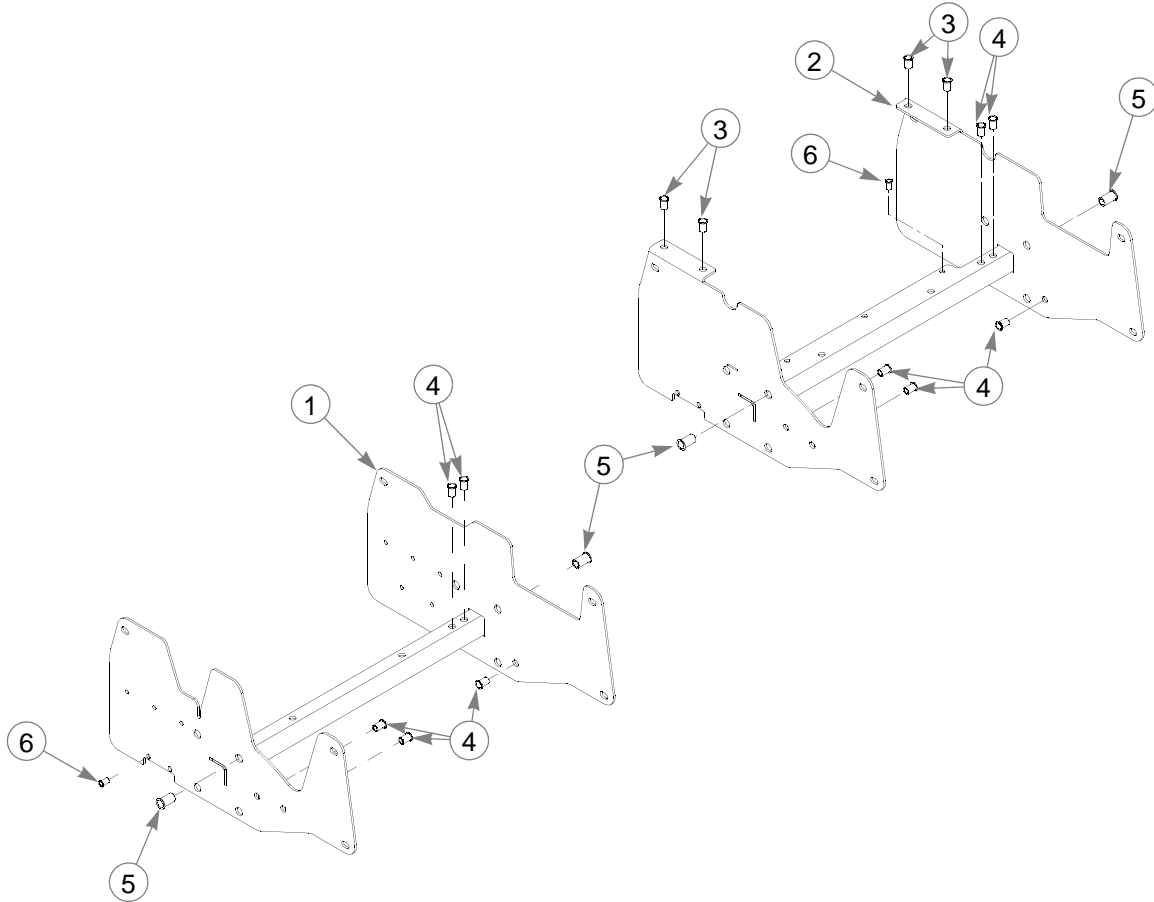


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
2	547950	106732	1	XR7 MMZ SEAT SUPPORT
2	N/A	808493	3	3/8-16 THREAD RIVET NUT (FOR AIR COOLED)
1	N/A	808493	3	3/8-16 THREAD RIVET NUT (FOR LIQUID COOLED)
3	N/A	600961	8	1/2-13 THREAD RIVET NUT (PER EACH SUPPORT)
2	N/A	808477	2	1/4-20 THREAD RIVET NUT (KAWASAKI AIR COOLED ONLY) EXCEPT KAW 31
1	N/A	808477	3	1/4-20 THREAD RIVET NUT (KAWASAKI LIQUID COOLED ONLY)
1	549287	109568	1	26HP KAWASAKI SEAT SUPPORT
1	N/A	808485	4	5/16-18 THREAD RIVET NUT (KAWASAKI LIQUID COOLED ONLY)

NOTES:

1. Used only on mowers with liquid cooled engines, serial numbers higher than 08012250 (service part includes rivet nuts).
2. Used on all mowers with air cooled engines, serial numbers higher than 08020644 (service part includes rivet nuts).

Seat Support Rivet Nut Installation—S/N Prior To 08020644

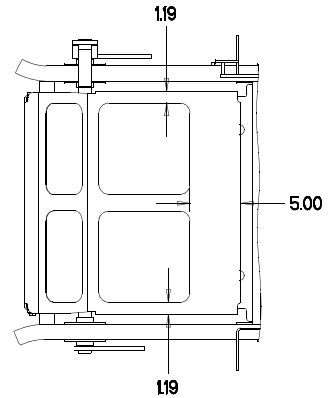
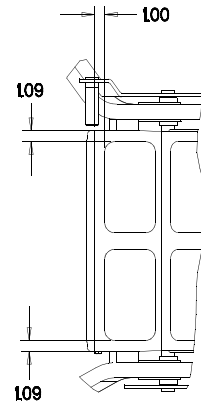
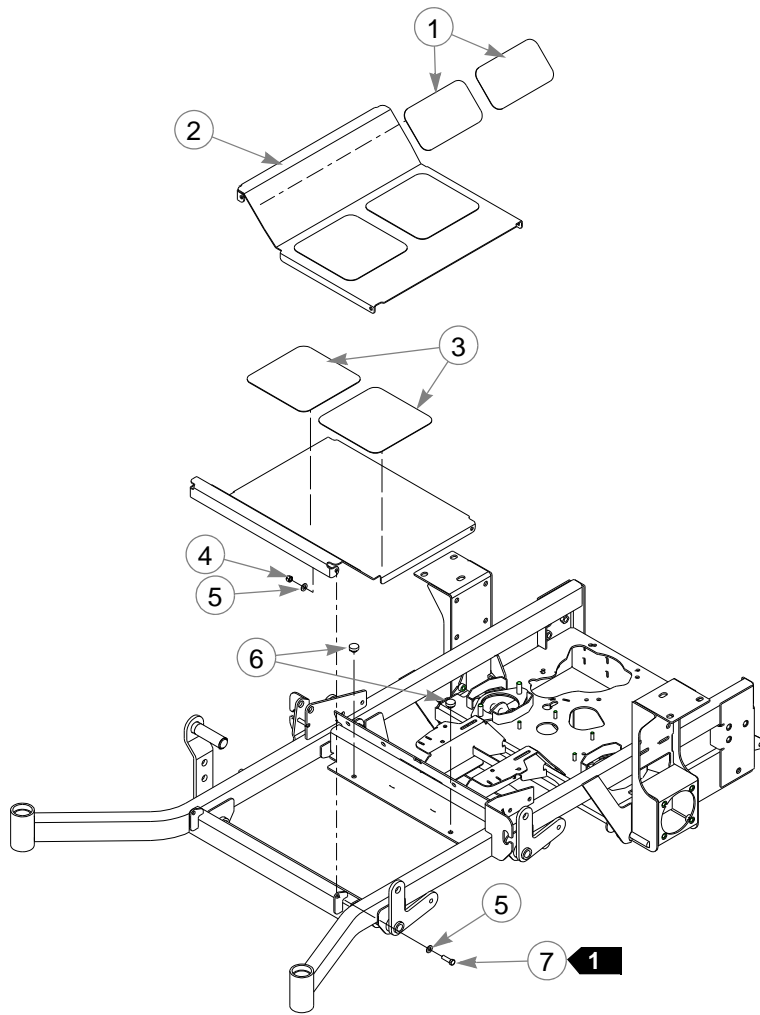


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	547950	106732	1	XR7 MMZ SEAT SUPPORT
2	547968	348615	1	26HP KAWASAKI SEAT SUPPORT
2	N/A	808485	4	5/16-18 THREAD RIVET NUT (KAWASAKI LIQUID COOLED ONLY)
1	N/A	808493	5	3/8-16 THREAD RIVET NUT (FOR AIR COOLED)
2	N/A	808493	5	3/8-16 THREAD RIVET NUT (FOR LIQUID COOLED)
5	N/A	600961	8	1/2-13 THREAD RIVET NUT (PER EACH SUPPORT)
6	N/A	808477	2	1/4-20 THREAD RIVET NUT (KAWASAKI AIR COOLED ONLY) EXCEPT KAW 31
2	N/A	808477	3	1/4-20 THREAD RIVET NUT (KAWASAKI LIQUID COOLED ONLY)

NOTES:

1. Used on all mowers with air cooled engines, serial numbers prior to 08020644 (service part includes rivet nuts).
2. Used only on mowers with liquid cooled engines, serial numbers prior to 08012250 (service part includes rivet nuts).

Footrest Assembly



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	359547	359547	2	STEP TREAD
2	395533	395533	1	FLOOR
3	305615	305615	2	PLATFORM STEP TREAD
4	086660	086660	2	NT .375-16 HX LK NY
5	767954	767954	4	FW .406 X .812 X .060 SAE HD ZN
6	781880	781880	2	RUBBER BUMPER
7	052860	052860	2	CS .375-16 X 1.250 HX G5 ZN

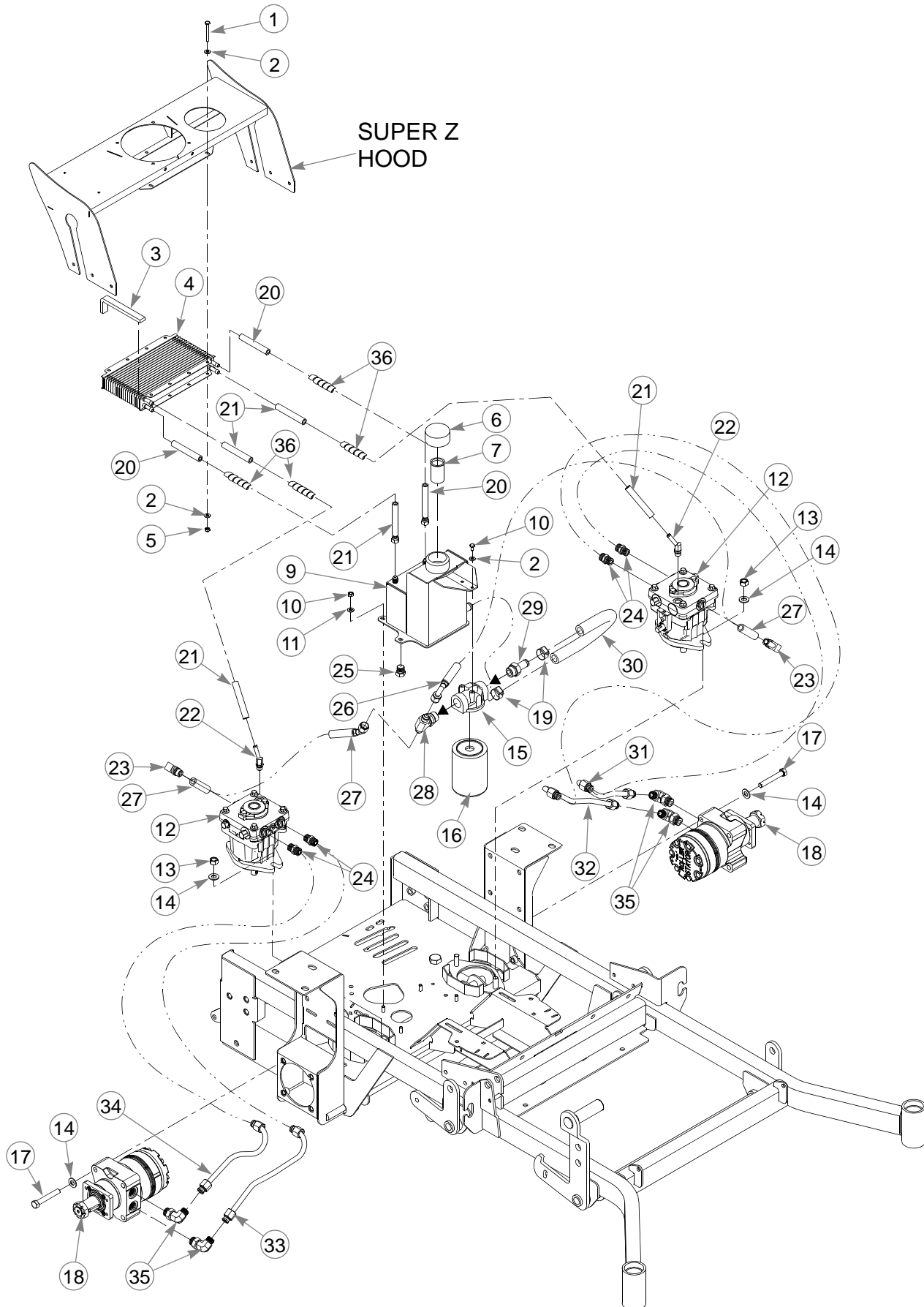
NOTES:

- Do not tighten, Item 2 (395533 Floor) must be able to pivot on these bolts.

Section 3

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Hydraulic System Installation—Air Cooled Engines (Non HT)



Hydraulic System Installation–Air Cooled Engines (Non HT)

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	705608	705608	4	CS .250-20 X 2.25 HX G5 ZNYC
2	768515	768515	10	FW .281 X .625 X .051/.080 HD ZNYC
3	713198	713198	2	SEAL 3/8 X 3/4 X 7.25" LONG
4	601677	601677	2	OIL COOLER
5	068551	068551	4	NT .250-20 HX NL ZNYC
6	032763	032763	1	BREATHER CAP
7	032771	032771	1	STRAINER
8	055947	055947	2	CS .250-20 X .50 HX G5 ZNYC
9	357616	357616	1	SUPER Z RESERVOIR
10	034272	034272	4	NT .312-18 HX G5 ZNYC
11	768523	768523	4	FW .343 X .687 X .051/.080 HD ZNYC
12	788042	788042	2	PUMP, HYDRO-GEAR BDP-21L-408
13	008193	008193	4	NT .500-13 HX G5 ZNYC
14	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
15	783928	783928	1	ZAF SERIES FILTER HEAD
16	783936	783936	1	FILTER ELEMENT
17	077859	077859	8	CS .500-13X3.250 HX G5
18	601220	601220	2	MOTOR, WHITE RC18 CCW
19	700484	700484	2	HOSE CLAMP
20	784132	N/A	2	RETURN HOSE ASSY, #6 17.375" LONG
21	784124	N/A	2	RETURN HOSE, #6 16.5" LONG
22	784108	N/A	2	FITTING, #6 BEADED TUBE-ORB 45°
23	784082	N/A	2	FITTING, #8 BEADED TUBE-ORB 90°
24	781534	N/A	4	FITTING, STR-8MORB/-8MSL
25	781658	N/A	1	HEX PLUG FITTING, STR-8MORB
26	784025	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
27	783993	N/A	1	SUCTION HOSE, TANK-FILTER
28	788174	N/A	1	FITTING, T -8MJIC/8MJIC
29	783985	N/A	1	FITTING, 10 FX05-S
30	784116	N/A	1	SUCTION HOSE, #12 16" LONG
31	601286	N/A	1	TUBE, LP-TM LT LOOP
32	601287	N/A	1	TUBE, RP-BM LT LOOP
33	601285	N/A	1	TUBE, LP-BM RT LOOP
34	601284	N/A	1	TUBE, RP-TM RT LOOP
35	781526	N/A	4	FITTING, 90-10MORB/-8MSL
36	601509	N/A	4	HOSE GUARD

NOTES:

1. Hydraulic system capacity is 5 US quarts of 20W50 motor oil. Fill reservoir to within 1" of top of Item 8 (032771 Strainer). See "Hydraulic system" on page 10-35.
2. For mowers with serial numbers higher than 07040104.

HYDRAULIC SYSTEM CHARGING PROCEDURE

1. Set handles in the neutral position.

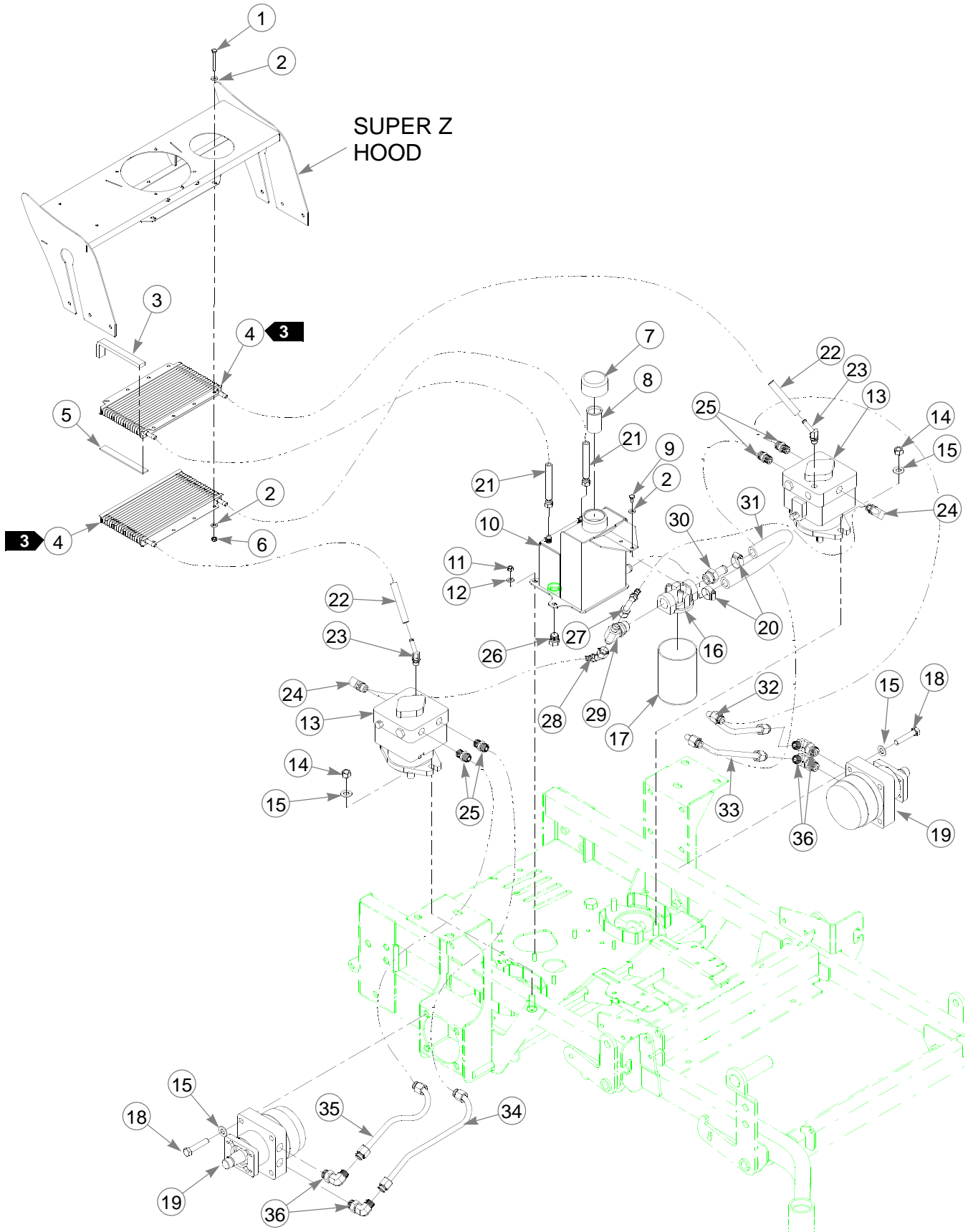
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2. Start engine at idle.
 3. Let run for a minimum of 30 seconds.
 4. Stroke handles to forward position.
 5. If motors do not turn in 15 seconds return handles to neutral and repeat step 3 and 4 (one time).
 6. If motors do not turn after second attempt,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

Note:

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

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Hydraulic System Installation—Air Cooled Engines (Non HT)



Hydraulic System Installation–Air Cooled Engines (Non HT)

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	705608	705608	4	CS .250-20 X 2.25 HX G5 ZNYC
2	768515	768515	10	FW .281 X .625 X .051/.080 HD ZNYC
3	713198	713198	2	SEAL 3/8 X 3/4 X 7.25" LONG
4	601677	601677	1	OIL COOLER
5	N/A	N/A	N/A	WEATHERSTRIP 1/8 X 3/4 X 5.88" LONG
6	068551	068551	4	NT .250-20 HX NL ZNYC
7	032763	032763	1	BREATHER CAP
8	032771	032771	1	STRAINER
9	055947	055947	2	CS .250-20 X .50 HX G5 ZNYC
10	357616	357616	1	SUPER Z RESERVOIR
11	034272	034272	4	NT .312-18 HX G5 ZNYC
12	768523	768523	4	FW .343 X .687 X .051/.080 HD ZNYC
13	788042	788042	2	PUMP, HYDRO-GEAR BDP-21L-408
14	008193	008193	4	NT .500-13 HX G5 ZNYC
15	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
16	783928	783928	1	ZAF SERIES FILTER HEAD
17	783936	783936	1	FILTER ELEMENT
18	077859	077859	8	CS .500 -13 X 3.250 HX G5
19	782383	782383	2	WHITE MOTOR RC18 CCW
20	700484	700484	2	HOSE CLAMP
21	784132	N/A	2	RETURN HOSE ASSY, #6 17.375" LONG
22	784124	N/A	2	RETURN HOSE, #6 16.5" LONG
23	784108	N/A	2	FITTING, #6 BEADED TUBE-ORB 45°
24	784082	N/A	2	FITTING, #8 BEADED TUBE-ORB 90°
25	781534	N/A	4	FITTING, STR-8MORB/-8MSL
26	781658	N/A	1	HEX PLUG FITTING, STR-8MORB
27	784025	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
28	783993	N/A	1	SUCTION HOSE, TANK-FILTER
29	788174	N/A	1	FITTING, T - 8MJIC/8MJIC
30	783985	N/A	1	FITTING, 10 FX05-S
31	784116	N/A	1	SUCTION HOSE, #12 16" LONG
32	782870	N/A	1	TUBE, HYDRAULIC LINE
33	782880	N/A	1	TUBE, HYDRAULIC LINE
34	782458	N/A	1	TUBE, HYDRAULIC LINE
35	782441	N/A	1	TUBE, HYDRAULIC LINE
36	781526	N/A	4	FITTING, 90-10MORB/-8MSL

NOTES:

1. Hydraulic system capacity is 5 US quarts of 20W50 motor oil. Fill reservoir to within 1" of top of Item 8 (032771 Strainer). See "Hydraulic system" on page 10-35.
2. For mowers with serial number prior to 07040104.
3. The single oil cooler (601677) replaces the two coolers shown. See "Hydraulic System Installation–Air Cooled Engines (Non HT)" on

HYDRAULIC SYSTEM CHARGING PROCEDURE

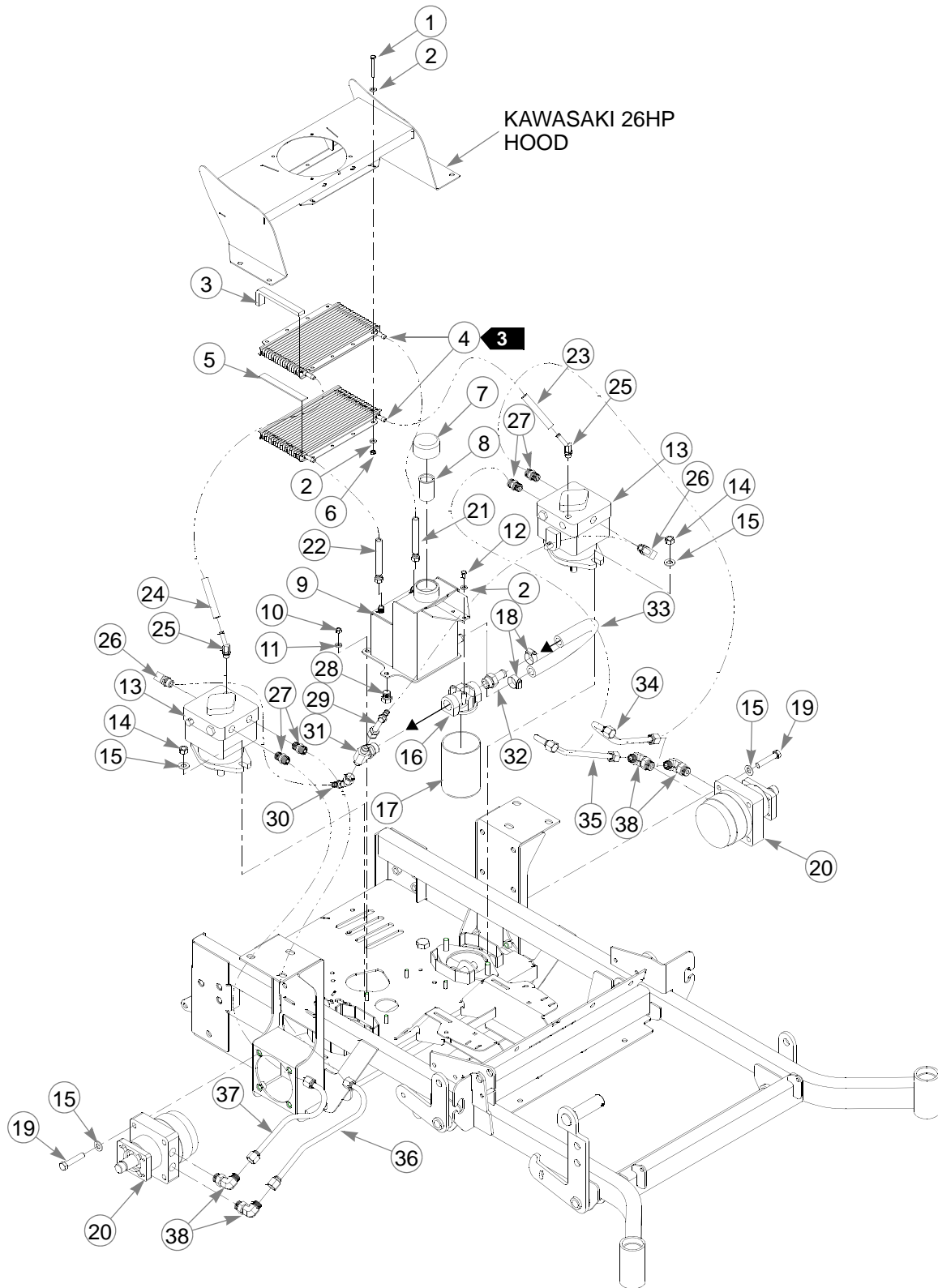
1. Set handles in the neutral position.
2. Start engine at idle.
3. Let run for a minimum of 30 seconds.
4. Stroke handles to forward position.
5. If motors do not turn in 15 seconds return handles to neutral and repeat step 3 and 4 (one time).
6. If motors do not turn after second attempt, shut off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

Note:

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

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Hydraulic System Installation—Kawasaki 26HP Engine ◀ 2



Hydraulic System Installation–Kawasaki 26HP Engine

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	705608	705608	4	CS .250-20 X 2.25 HX G5 ZNYC
2	768515	768515	10	FW .281 X .625 X .051/.080 HD ZNYC
3	713198	713198	2	SEAL 3/8 X 3/4 X 7.25" LONG
4	601677	601677	1	OIL COOLER
5	N/A	N/A	N/A	WEATHERSTRIP 1/8 X 3/4 X 5.88" LONG
6	068551	068551	4	NT .250-20 HX NL ZNYC
7	032763	032763	1	BREATHER CAP
8	032771	032771	1	STRAINER
9	357616	357616	1	SUPER Z RESERVOIR
10	034272	034272	4	NT .312-18 HX G5 ZNYC
11	768523	768523	4	FW .343 X .687 X .051/.080 HD ZNYC
12	055947	055947	2	CS .250-20 X .50 HX G5 ZNYC
13	788042	788042	2	PUMP, HYDRO-GEAR BDP-21L-408
14	008193	008193	4	NT .500-13 HX G5 ZNYC
15	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
16	783928	783928	1	ZAF SERIES FILTER HEAD
17	783936	783936	1	FILTER ELEMENT
18	700484	700484	2	HOSE CLAMP
19	077859	077859	8	CS .500-13X3.250 HX G5
20	601220	601220	2	WHITE MOTOR RC18 CCW
21	796920	N/A	1	COOLER-RESERVOIR HOSE ASSY, 25" LONG
22	796912	N/A	1	COOLER-RESERVOIR HOSE ASSY, 29" LONG
23	796938	N/A	1	PUMP COOLER HOSE, 21" LONG
24	601514	N/A	1	CASE DRAIN HOSE
25	784108	N/A	2	FITTING, #6 BEADED TUBE-ORB 45°
26	784082	N/A	2	FITTING, #8 BEADED TUBE-ORB 90°
27	781534	N/A	4	FITTING, STR-8MORB/-8MSL
28	781658	N/A	1	HEX PLUG FITTING, STR-8MORB
29	784025	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
30	783993	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
31	788174	N/A	1	FITTING, T -8MJIC/8MJIC
32	783985	N/A	1	FITTING, 10 FX05-S
33	784116	N/A	1	SUCTION HOSE, #12 16" LONG
34	601286	N/A	1	TUBE, HYDRAULIC LINE
35	601287	N/A	1	TUBE, HYDRAULIC LINE
36	601285	N/A	1	TUBE, HYDRAULIC LINE
37	601284	N/A	1	TUBE, HYDRAULIC LINE
38	781526	N/A	4	FITTING, 90-10MORB/-8MSL

NOTES:

1. Hydraulic system capacity is 5 US quarts of 20W50 motor oil. Fill reservoir to within 1" of top of Item 8 (032771 Strainer). See "Hydraulic system" on page 10-35.
2. For mowers with serial numbers higher than 07040104.

-
3. The single oil cooler (601677) replaces the two coolers shown. See “Hydraulic System Installation–Air Cooled Engines (Non HT)” on page 3-2 for current set up.

HYDRAULIC SYSTEM CHARGING PROCEDURE

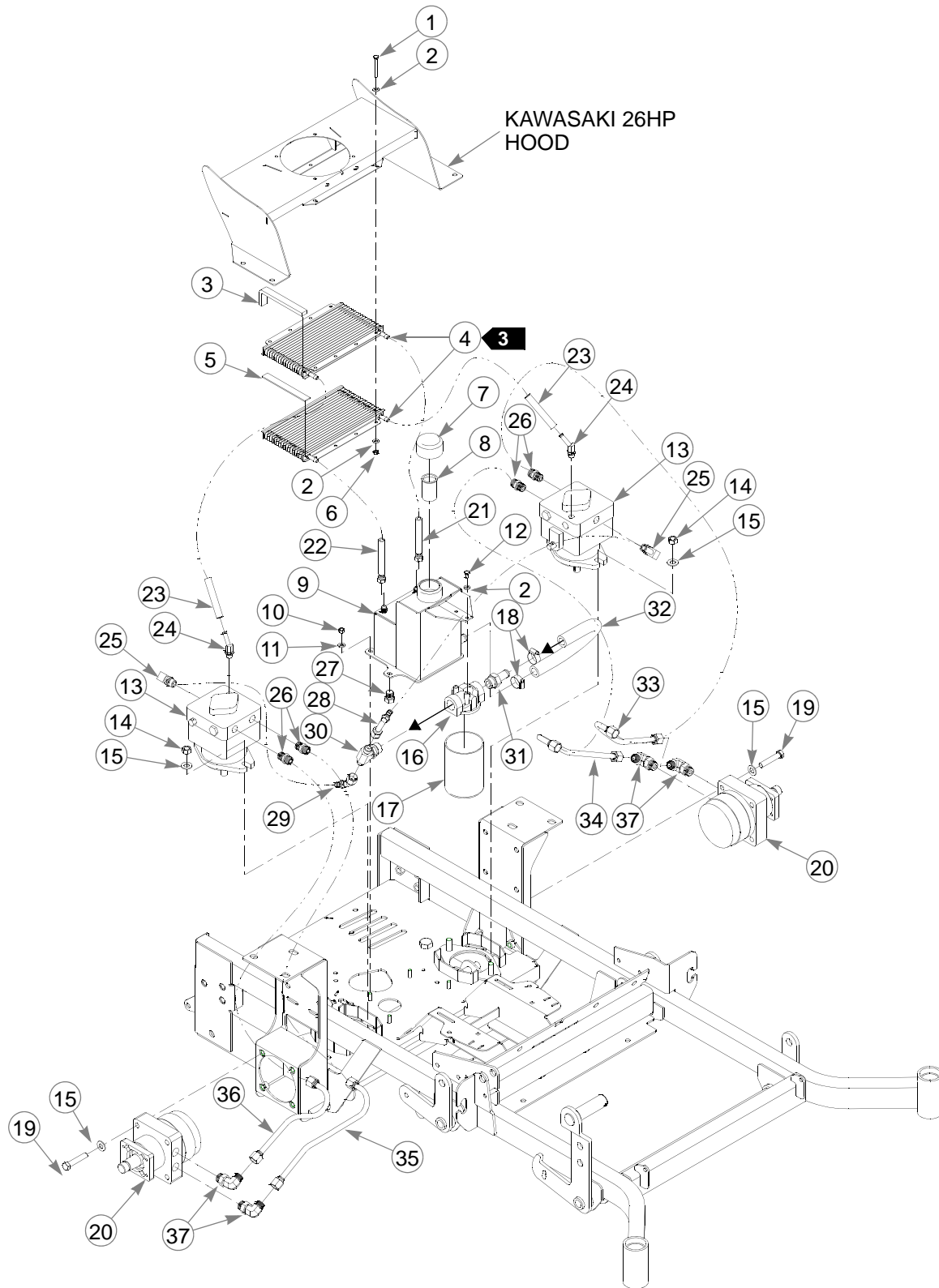
1. Set handles in the neutral position.
2. Start engine at idle.
3. Let run for a minimum of 30 seconds.
4. Stroke handles to forward position.
5. If motors do not turn in 15 seconds return handles to neutral and repeat step 3 and 4 (one time).
6. If motors do not turn after second attempt, shut off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

Note:

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

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Hydraulic System Installation—Kawasaki 26HP Engine ◀ 2



Hydraulic System Installation–Kawasaki 26HP Engine

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	705608	705608	4	CS .250-20 X 2.25 HX G5 ZNYC
2	768515	768515	10	FW .281 X .625 X .051/.080 HD ZNYC
3	713198	713198	2	SEAL 3/8 X 3/4 X 7.25" LONG
4	601677	601677	1	OIL COOLER
5	N/A	N/A	N/A	WEATHERSTRIP 1/8 X 3/4 X 5.88" LONG
6	068551	068551	4	NT .250-20 HX NL ZNYC
7	032763	032763	1	BREATHER CAP
8	032771	032771	1	STRAINER
9	357616	357616	1	SUPER Z RESERVOIR
10	034272	034272	4	NT .312-18 HX G5 ZNYC
11	768523	768523	4	FW .343 X .687 X .051/.080 HD ZNYC
12	055947	055947	2	CS .250-20 X .50 HX G5 ZNYC
13	788042	788042	2	PUMP, HYDRO-GEAR BDP-21L-408
14	008193	008193	4	NT .500-13 HX G5 ZNYC
15	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
16	783928	783928	1	ZAF SERIES FILTER HEAD
17	783936	783936	1	FILTER ELEMENT
18	700484	700484	2	HOSE CLAMP
19	008573	008573	8	CS .500-13 X2.500 HX G5
20	782383	782383	2	WHITE MOTOR CE-18 CCW
21	796920	N/A	1	COOLER-RESERVOIR HOSE ASSY, 25" LONG
22	796912	N/A	1	COOLER-RESERVOIR HOSE ASSY, 29" LONG
23	796938	N/A	2	PUMP COOLER HOSE, 21" LONG
24	784108	N/A	2	FITTING, #6 BEADED TUBE-ORB 45°
25	784082	N/A	2	FITTING, #8 BEADED TUBE-ORB 90°
26	781534	N/A	4	FITTING, STR-8MORB/-8MSL
27	781658	N/A	1	HEX PLUG FITTING, STR-8MORB
28	784025	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
29	783993	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
30	788174	N/A	1	FITTING, T -8MJIC/8MJIC
31	783985	N/A	1	FITTING, 10 FX05-S
32	784116	N/A	1	SUCTION HOSE, #12 16" LONG
33	782870	N/A	1	TUBE, HYDRAULIC LINE
34	782880	N/A	1	TUBE, HYDRAULIC LINE
35	782458	N/A	1	TUBE, HYDRAULIC LINE
36	782441	N/A	1	TUBE, HYDRAULIC LINE
37	781526	N/A	4	FITTING, 90-10MORB/-8MSL

NOTES:

1. Hydraulic system capacity is 5 US quarts of 20W50 motor oil. Fill reservoir to within 1" of top of Item 8 (032771 Strainer). See "Hydraulic system" on page 10-35.
2. For mowers with serial numbers prior to 07040104.

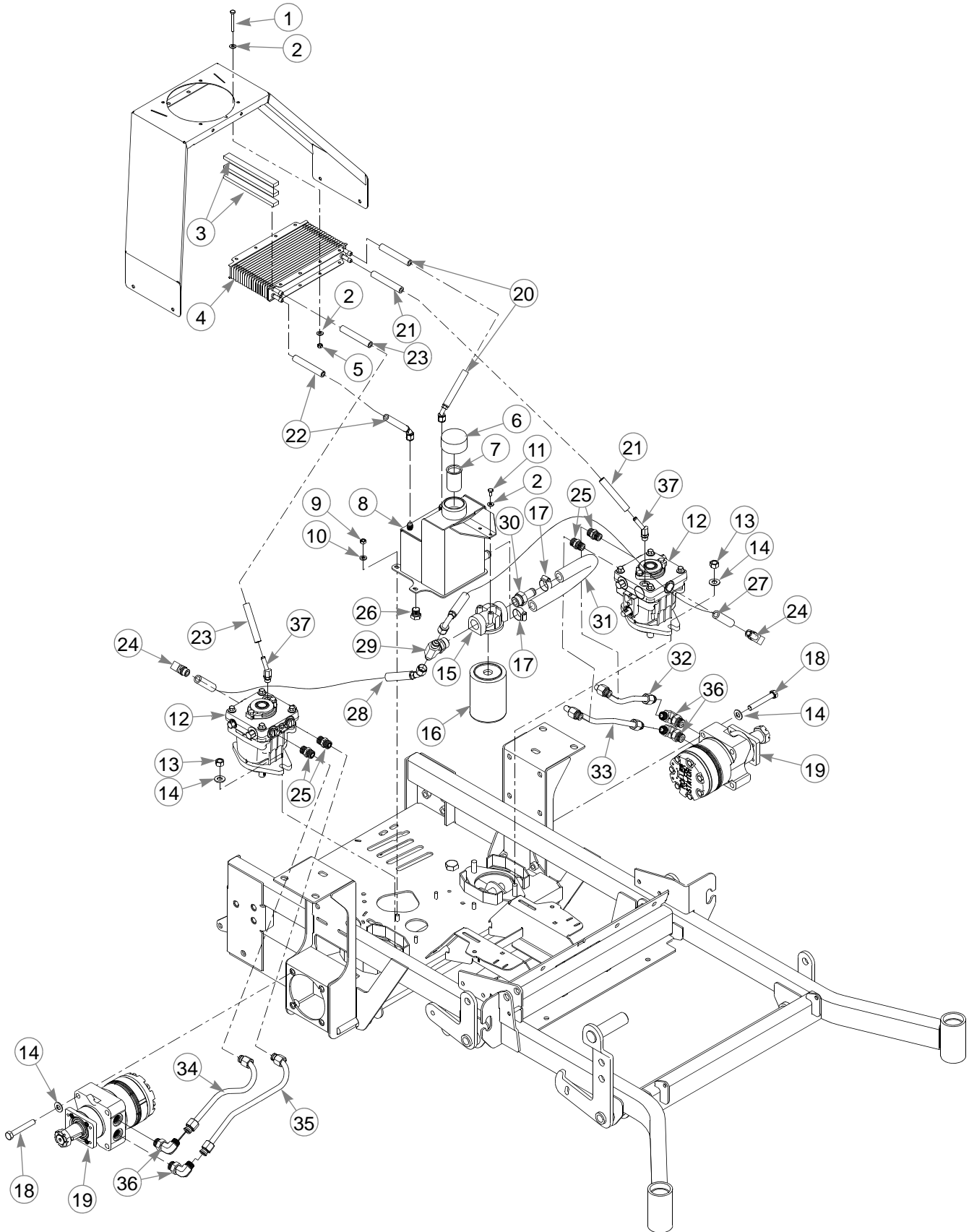
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3. The single oil cooler (601677) replaces the two coolers shown. See “Hydraulic System Installation–Air Cooled Engines (Non HT)” on page 3-2 for current set up.

Note:

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

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Hydraulic System Installation—Kawasaki 31HP Engine



Hydraulic System Installation—Kawasaki 31HP Engine

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	705608	705608	4	CS .250-20 X 2.25 HX G5 ZNYC
2	768515	768515	10	FW .281 X .625 X .051/.080 HD ZNYC
3	713198	713198	6	SEAL 3/8 X 3/4 X 7.25" LONG
4	601677	601677	1	OIL COOLER
5	068551	068551	4	NT .250-20 HX NL ZNYC
6	032763	032763	1	BREATHER CAP
7	032771	032771	1	STRAINER
8	357616	357616	1	SUPER Z RESERVOIR
9	034272	034272	4	NT .312-18 HX G5 ZNYC
10	768523	768523	4	FW .343 X .687 X .051/.080 HD ZNYC
11	055947	055947	2	CS .250-20 X .50 HX G5 ZNYC
12	788042	788042	2	PUMP, HYDRO-GEAR BDP-21L-408
13	008193	008193	4	NT .500-13 HX G5 ZNYC
14	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
15	783928	783928	1	ZAF SERIES FILTER HEAD
16	783936	783936	1	FILTER ELEMENT
17	700484	700484	2	HOSE CLAMP
18	077859	077859	8	CS .500-13X3.250 HX G5
19	601220	601220	2	MOTOR, WHITE RC18 CCW
20	601629	N/A	2	HOSE, COOLER-LT RES
21	601628	N/A	2	HOSE, LEFT PUMP-COOLER
22	601627	N/A	2	HOSE, COOLER-RT RES
23	601626	N/A	2	HOSE, RIGHT PUMP-COOLER
24	784082	N/A	2	FITTING, #8 BEADED TUBE-ORB 90°
25	781534	N/A	4	FITTING, STR-8MORB/-8MSL
26	781658	N/A	1	HEX PLUG FITTING, STR-8MORB
27	784025	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
28	783993	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
29	788174	N/A	1	FITTING, T -8MJIC/8MJIC
30	783985	N/A	1	FITTING, 10 FX05-S
31	784116	N/A	1	SUCTION HOSE, #12 16" LONG
32	601286	N/A	1	TUBE, LP-TM LT LOOP
33	601287	N/A	1	TUBE, RP-BM LT LOOP
34	601284	N/A	1	TUBE, RP-TM RT LOOP
35	601285	N/A	1	TUBE, LP-BM RT LOOP
36	781526	N/A	4	FITTING, 90-10MORB/-8MSL
37	784108	N/A	2	FITTING, #6 BEADED TUBE-ORB 45°

NOTES:

1. Hydraulic system capacity is 5 US quarts of 20W50 motor oil. Fill reservoir to within 1" of top of Item 7 (032771 Strainer). See "Hydraulic system" on page 10-35.

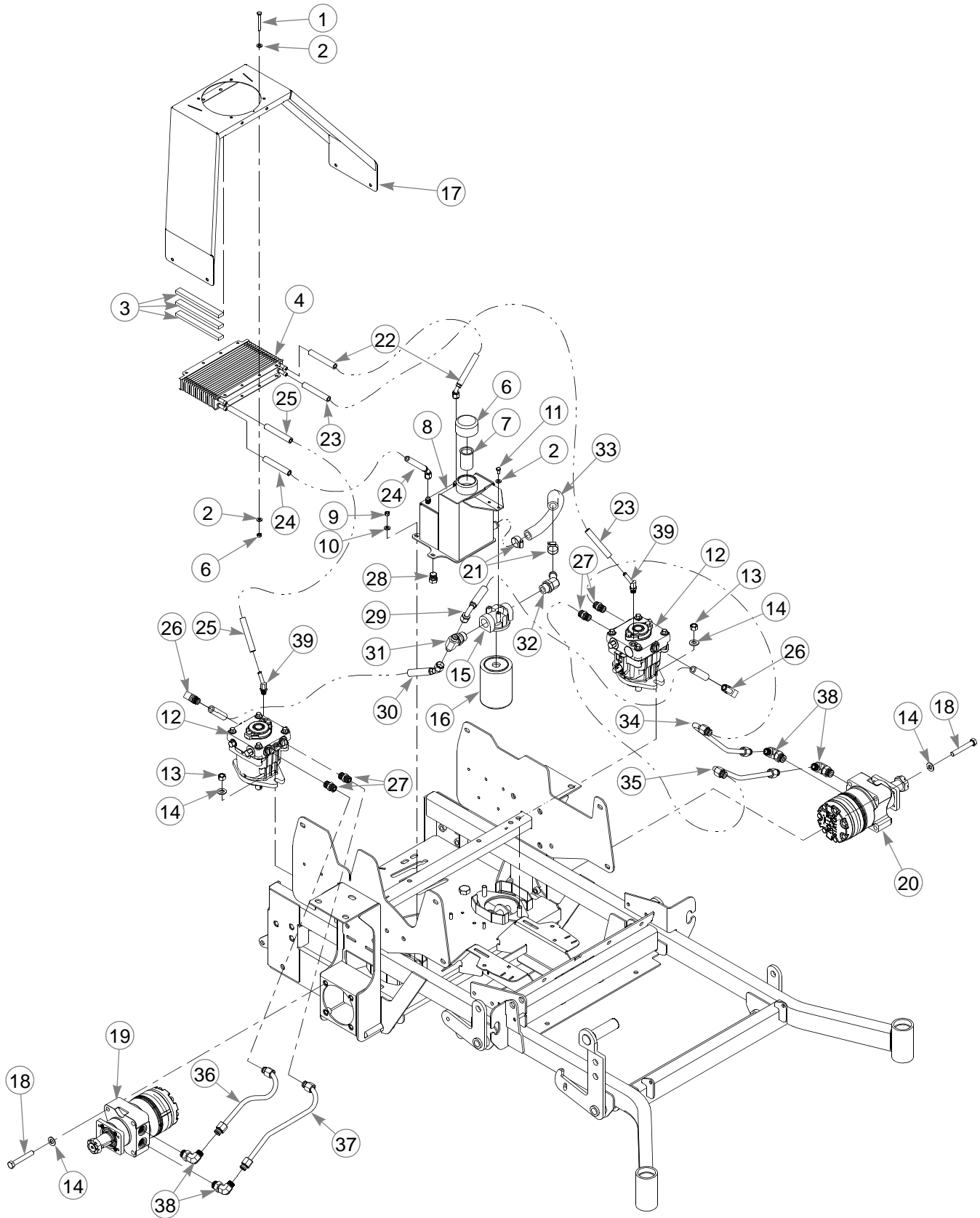
HYDRAULIC SYSTEM CHARGING PROCEDURE

1. Set handles in the neutral position.
2. Start engine at idle.

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

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Hydraulic System Installation—Kawasaki 31HP HT Engine



Hydraulic System Installation—Kawasaki 31HP HT Engine

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	705608	705608	4	CS .250-20 X 2.25 HX G5 ZNYC
2	768515	768515	10	FW .281 X .625 X .051/.080 HD ZNYC
3	713198	713198	6	SEAL 3/8 X 3/4 X 7.25" LONG
4	601677	601677	1	OIL COOLER
5	068551	068551	4	NT .250-20 HX NL ZNYC
6	032763	032763	1	BREATHER CAP
7	032771	032771	1	STRAINER
8	357616	357616	1	SUPER Z RESERVOIR
9	034272	034272	4	NT .312-18 HX G5 ZNYC
10	768523	768523	4	FW .343 X .687 X .051/.080 HD ZNYC
11	055947	055947	2	CS .250-20 X .50 HX G5 ZNYC
12	788042	788042	2	PUMP, HYDRO-GEAR BDP-21L-408
13	008193	008193	4	NT .500-13 HX G5 ZNYC
14	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
15	783928	783928	1	ZAF SERIES FILTER HEAD
16	783936	783936	1	FILTER ELEMENT
17	109604	109604	1	REMOTE AIR MOUNT BRACKET W/A
18	077859	077859	8	CS .500-13X3.250 HX G5
19	789339	789339	1	MOTOR, WHITE RC26 CCW
20	601260	601260	1	MOTOR, WHITE RC26 CW
21	700484	700484	2	HOSE CLAMP
22	601629	N/A	2	HOSE, COOLER-LT RES
23	601628	N/A	2	HOSE, LEFT PUMP-COOLER
24	601627	N/A	2	HOSE, COOLER-RT RES
25	601626	N/A	2	HOSE, RIGHT PUMP-COOLER
26	784082	N/A	2	FITTING, #8 BEADED TUBE-ORB 90°
27	781534	N/A	4	FITTING, STR-8MORB/-8MSL
28	781658	N/A	1	HEX PLUG FITTING, STR-8MORB
29	784025	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
30	783993	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
31	788174	N/A	1	FITTING, T -8MJIC/8MJIC
32	601687	N/A	1	FITTING, 10 FX05-S
33	601631	N/A	1	SUCTION HOSE, #12 16" LONG
34	601265	N/A	1	TUBE, LP-BM LT LOOP
35	601264	N/A	1	TUBE, RP-TM LT LOOP
36	601284	N/A	1	TUBE, RP-TM RT LOOP
37	601285	N/A	1	TUBE, LP-BM RT LOOP
38	781526	N/A	4	FITTING, 90-10MORB/-8MSL
39	784108	N/A	2	FITTING, #6 BEADED TUBE-ORB 45°

NOTES:

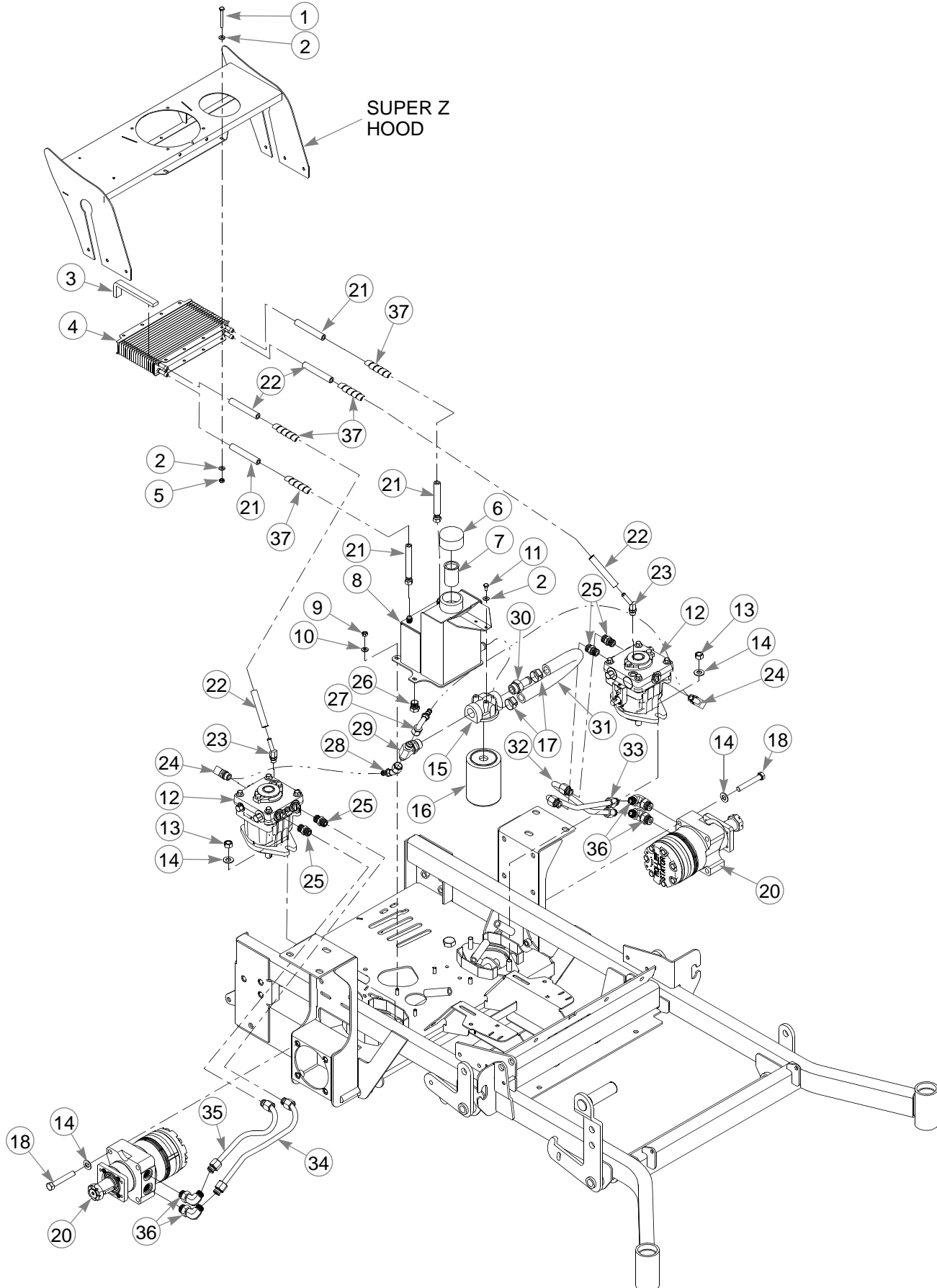
1. Hydraulic system capacity is 5 US quarts of 20W50 motor oil. Fill reservoir to within 1" of top of Item 8 (032771 Strainer). See "Hydraulic system" on page 10-35.

HYDRAULIC SYSTEM CHARGING PROCEDURE

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

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Hydraulic System Installation—Kohler 30HP HT



Hydraulic System Installation—Kohler 30HP HT

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	705608	705608	4	CS .250-20 X 2.25 HX G5 ZNYC
2	768515	768515	10	FW .281 X .625 X .051/.080 HD ZNYC
3	713198	713198	2	SEAL 3/8 X 3/4 X 7.25" LONG
4	601677	601677	1	OIL COOLER
5	068551	068551	4	NT .250 -20 HX NL ZNYC
6	032763	032763	1	BREATHER CAP
7	032771	032771	1	STRAINER
8	357616	357616	1	SUPER Z RESERVOIR
9	034272	034272	4	NT .312 -18 HX G5 ZNYC
10	768523	768523	4	FW .343 X .687 X .051/.080 HD ZNYC
11	055947	055947	2	CS .250-20 X .50 HX G5 ZNYC
12	788042	788042	2	PUMP, HYDRO-GEAR BDP-21L-408
13	008193	008193	4	NT .500-13 HX G5 ZNYC
14	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
15	783928	783928	1	ZAF SERIES FILTER HEAD
16	783936	783936	1	FILTER ELEMENT
17	700484	700484	2	HOSE CLAMP
18	077859	077859	8	CS .500-13 X3.250 HX G5
19	601260	601260	1	MOTOR, WHITE RC26 CW
20	789339	789339	1	MOTOR, WHITE RC26 CCW
21	784132	N/A	2	RETURN HOSE ASSEMBLY
22	784124	N/A	2	HOSE, RETURN #6 16.5"
23	784108	N/A	2	FITTING, #6 BEADED TUBE-ORB 45°
24	784082	N/A	2	FITTING, #8 BEADED TUBE-ORB 90°
25	781534	N/A	4	FITTING, STR-8MORB/-8MSL
26	781658	N/A	1	HEX PLUG FITTING, STR-8MORB
27	784025	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
28	783993	N/A	1	SUCTION HOSE ASSY, FILTER-PUMP
29	788174	N/A	1	FITTING, T -8MJIC/8MJIC
30	783985	N/A	1	FITTING, 10 FX05-S
31	784116	N/A	1	SUCTION HOSE, #12 16" LONG
32	601265	N/A	1	TUBE, HYDRAULIC LINE
33	601264	N/A	1	TUBE, HYDRAULIC LINE
34	601285	N/A	1	TUBE, HYDRAULIC LINE
35	601284	N/A	1	TUBE, HYDRAULIC LINE
36	781526	N/A	4	FITTING, 90-10MORB/-8MSL
37	601509	N/A	4	HOSE GUARD

NOTES:

1. Hydraulic system capacity is 5 US quarts of 20W50 motor oil. Fill reservoir to within 1" of top of Item 8 (032771 Strainer). See "Hydraulic system" on page 10-35.

HYDRAULIC SYSTEM CHARGING PROCEDURE

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

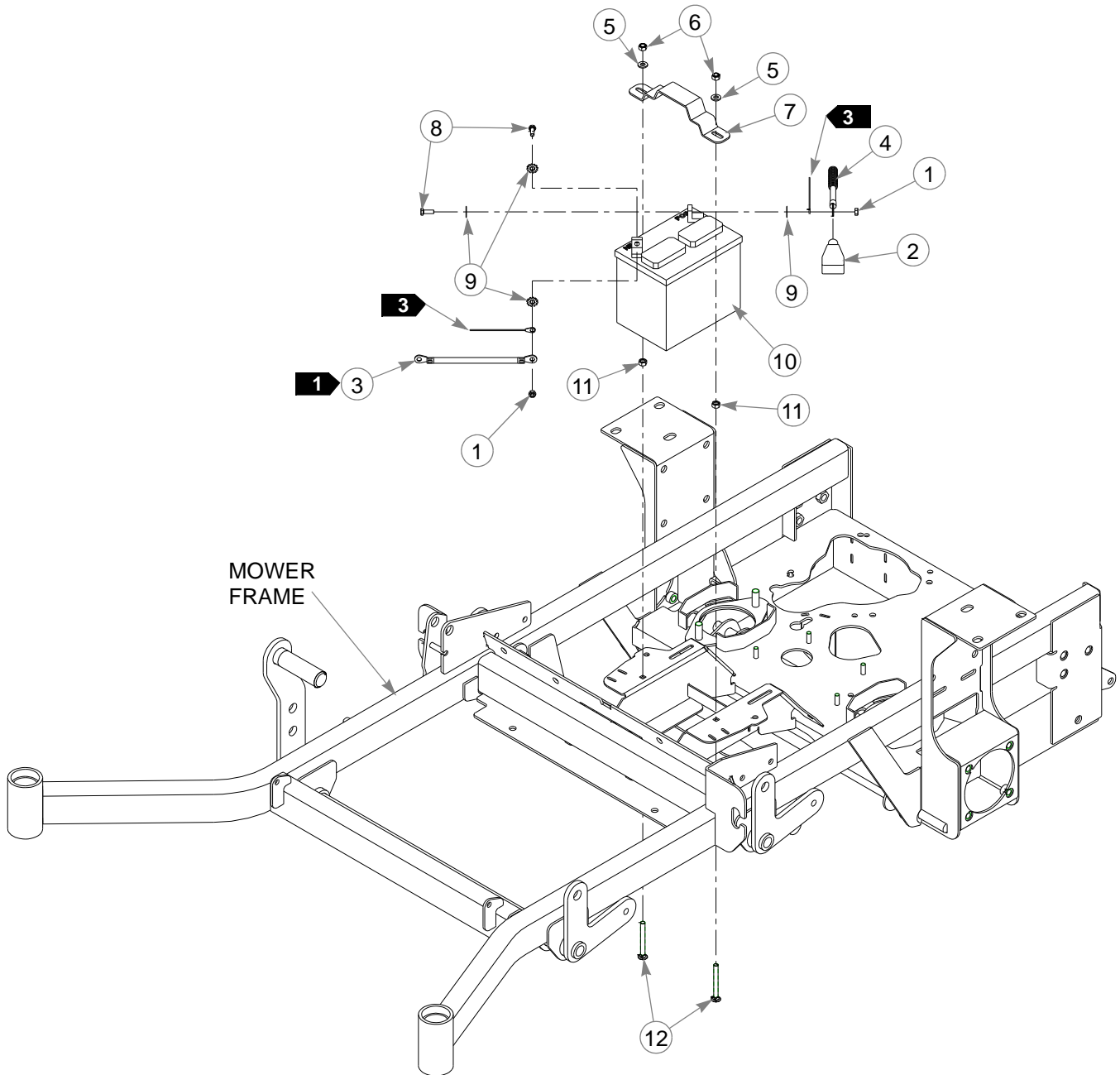
Note:

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

Section 4

Battery Installation	4-2
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Steering Assembly	4-6
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Battery Installation



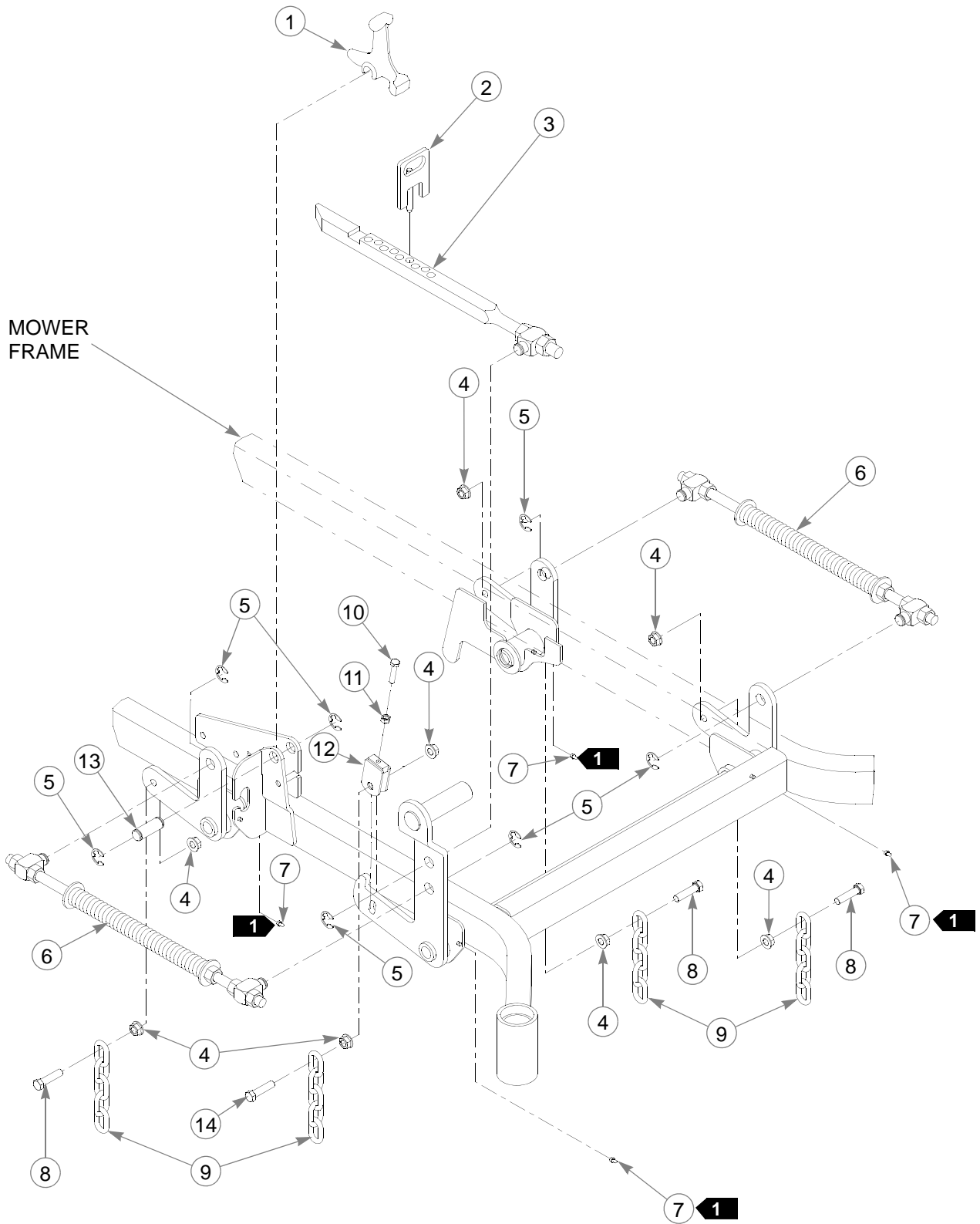
Battery Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	024927	024927	2	NT .250-20 HX GR 5 ZN
2	771428	771428	1	RED BATTERY CABLE BOOT
3	796219	796219	1	36" NEGATIVE BATTERY CABLE
4	744276	744276	1	POSITIVE BATTERY CABLE
5	768523	768523	2	FW .343 X .687 X .051/.080 HD ZNYC
6	058776	058776	2	NT .312-18 HX NL ZN
7	348417	348417	1	BATTERY CLAMP STRAP
8	055939	055939	2	CS .250-20 X .750 HX G5 ZN
9	029868	029868	4	LW .250 INT-EXT TOOTH ZN
10	740696	740696	1	BATTERY
11	034272	034272	2	NT .312-18 HX G5 ZN
12	779850	779850	2	CB .312-18 X 3.00 FUL ZN

NOTES:

1. When performing service on mower, disconnect battery ground cable and do not reconnect to battery until engine is ready to be started. See Owners Manual.
2. Battery is not installed in export models.
3. Part of wireharness.

Deck Lift Assembly



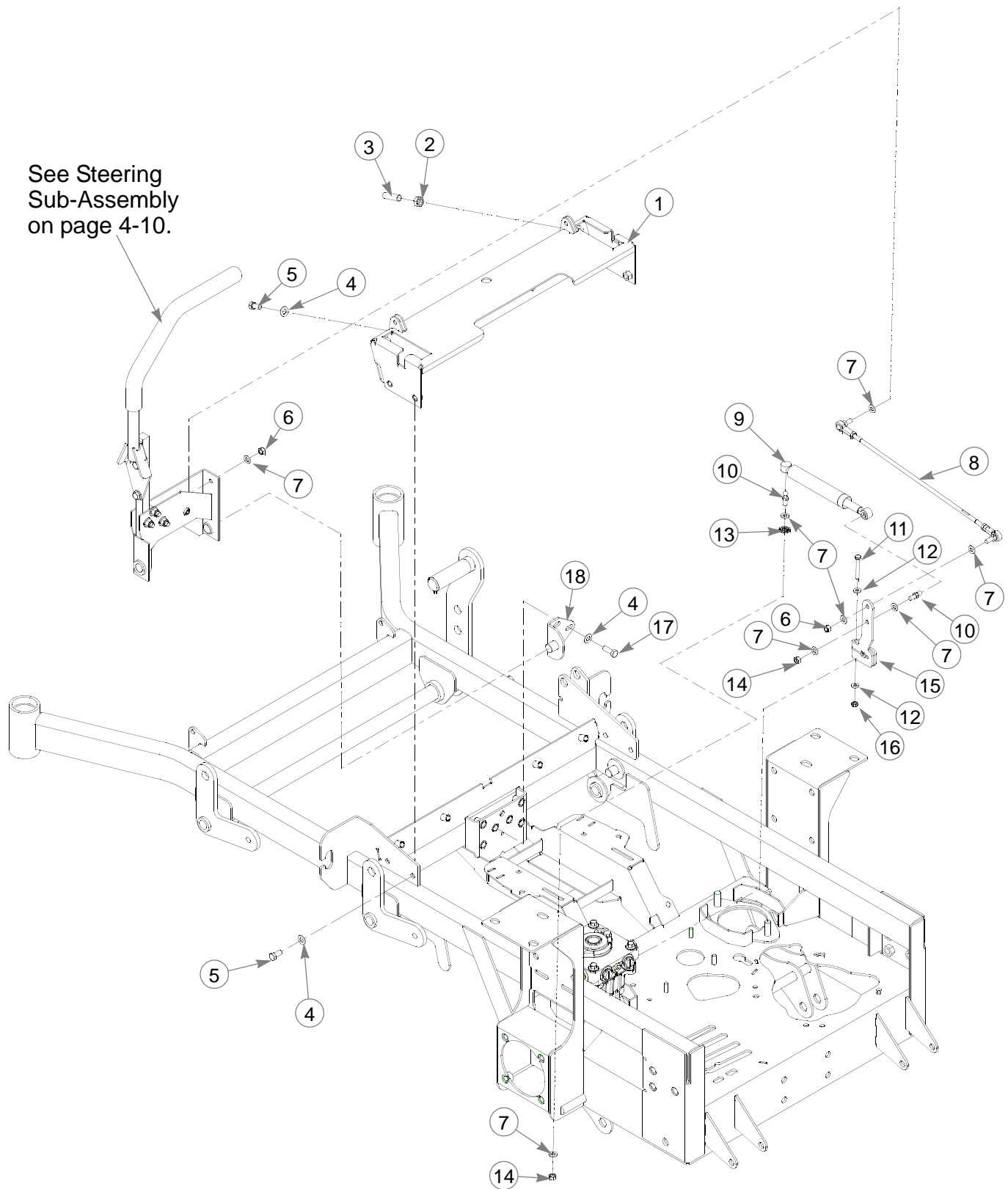
Deck Lift Assembly

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

NOTES:

1. Apply grease to zerks (see owners manual).

Steering Assembly



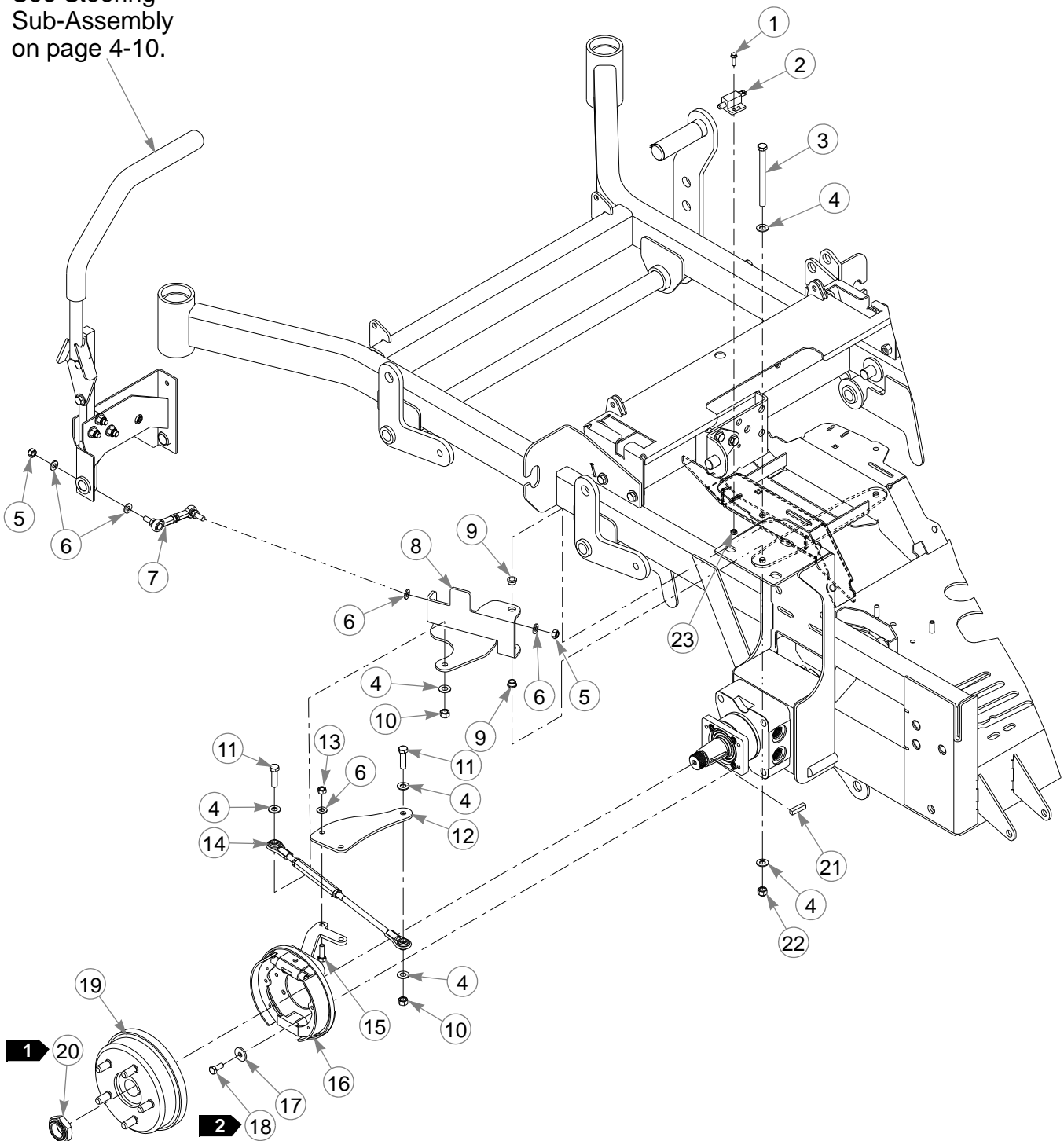
Steering Assembly

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	348987	348987	1	STEERING CONTROL PANEL
2	053199	053199	2	NT .500-13 HX JAM ZN
3	781716	781716	2	SS .500-13 X 1.75 SH ZN
4	767954	767954	14	FW .406 X .812 X .060 SAE HD ZN
5	055822	055822	8	CS .375-16 X .750 HX G5 ZN
6	023655	023655	4	NT .312-24 HXZY NL
7	768523	768523	16	FW .34 3X .687 X .051/.080 HD ZN/YL
8	781286	781286	2	PUMP ROD ADJUSTER ASSEMBLY
9	600221	600221	2	CENTERING DAMPENER
10	781922	781922	4	DAMPENER BALL STUD
11	704163	704163	2	CS .250-20 X 2.00 HX G5 ZN
12	768515	768515	4	FW .281 X .625 X .051/.080 HD ZN/YL
13	029876	029876	2	LW .312 INT-EXT TOOTH Z
14	034272	034272	4	NT .312-18 HX G5 ZN
15	347684	347684	2	SUPER Z PUMP ARM
16	781583	781583	2	BRAKE ROD ASSEMBLY
17	036244	036244	6	CS .375-16 X 1.000 HX G5 ZN
18	348797	348797	2	ADJUSTABLE PIVOT

NOTES:

Park Brake Assembly

See Steering
Sub-Assembly
on page 4-10.



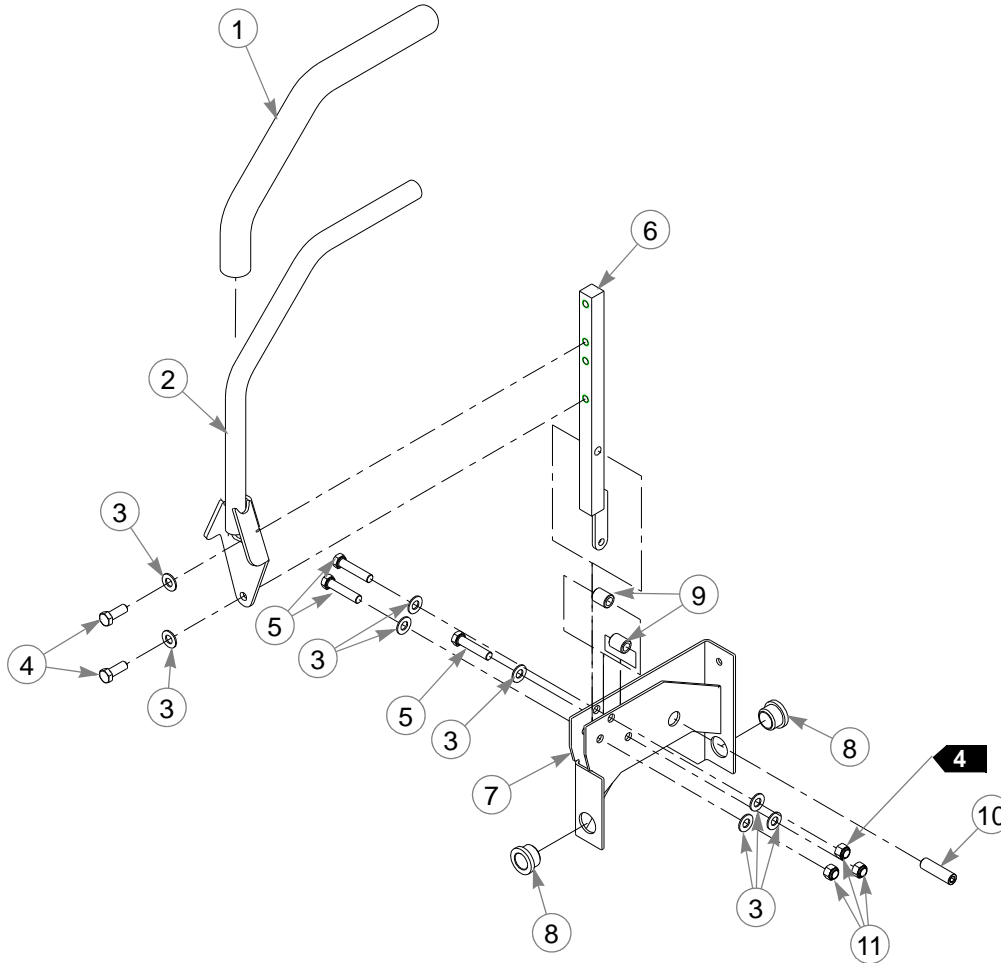
Park Brake Assembly

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	063198	063198	4	CS 10-24 X .750 HXFLK ZN
2	781211	781211	2	PUSH BUTTON SWITCH
3	782979	782979	2	CS .375-16 X 4.75 HX G5 ZN
4	767954	767954	12	FW .406 X .812 X .060 SAE HD ZN
5	023655	023655	4	NT .312-24 HXZY NL
6	768523	768523	12	FW .34 3X .687 X .051/.080 HD ZN/YL
7	781583	781583	2	BRAKE ROD ASSEMBLY
8	350330	350330	1	L.S. BRAKE PIVOT ARM
	350264	350264	1	R.S. BRAKE PIVOT ARM
9	765339	765339	4	BUSHING
10	054502	054502	4	NT .375-16 HX GRD 5 ZN
11	005116	005116	4	CS .375-16 X 1.375 HX G5 ZN
12	354035	354035	2	WHITE BRAKE LEVER EXTENSION
13	034272	034272	4	NT .312-18 HX G5 ZN
14	350397	350397	2	BRAKE LINK TURNBUCKLE
15	036236	036236	4	CS .312-18 X 1.000 HX G5 ZN
3	783126	783126	1	LH WHITE BRAKE ASSY
4	783118	783118	1	RH WHITE BRAKE ASSY
17	712927	712927	8	FW .344 X 1.00 X .12 HRD ZNYC
18	048876	048876	8	CS .312-18 X .750 HX G8 ZNYC
5	789321	789321	2	WHITE HUB ASSEMBLY
	782953	N/A	2	WHITE HUB ASSEMBLY
5	789644	N/A	2	NUT FOR WHITE MOTOR
	783845	N/A	2	NUT FOR WHITE MOTOR
21	601344	N/A	2	KEY FOR WHITE MOTOR
22	086660	086660	8	NT .375-16 HX LK NY
23	059832	059832	4	NT #10-24 HX NL ZN

NOTES:

1. Torque to 280-310 ft.-lbs. Included with wheel motor.
2. Torque to 24 ft.-lbs.
3. 783126 used on left wheel.
4. 783118 used on right wheel.
5. For mowers with serial numbers prior to 07040000 use 782953 and 783845. For mowers with serial numbers higher than 07040000 use 789321) and 789644.

Steering Sub-Assembly



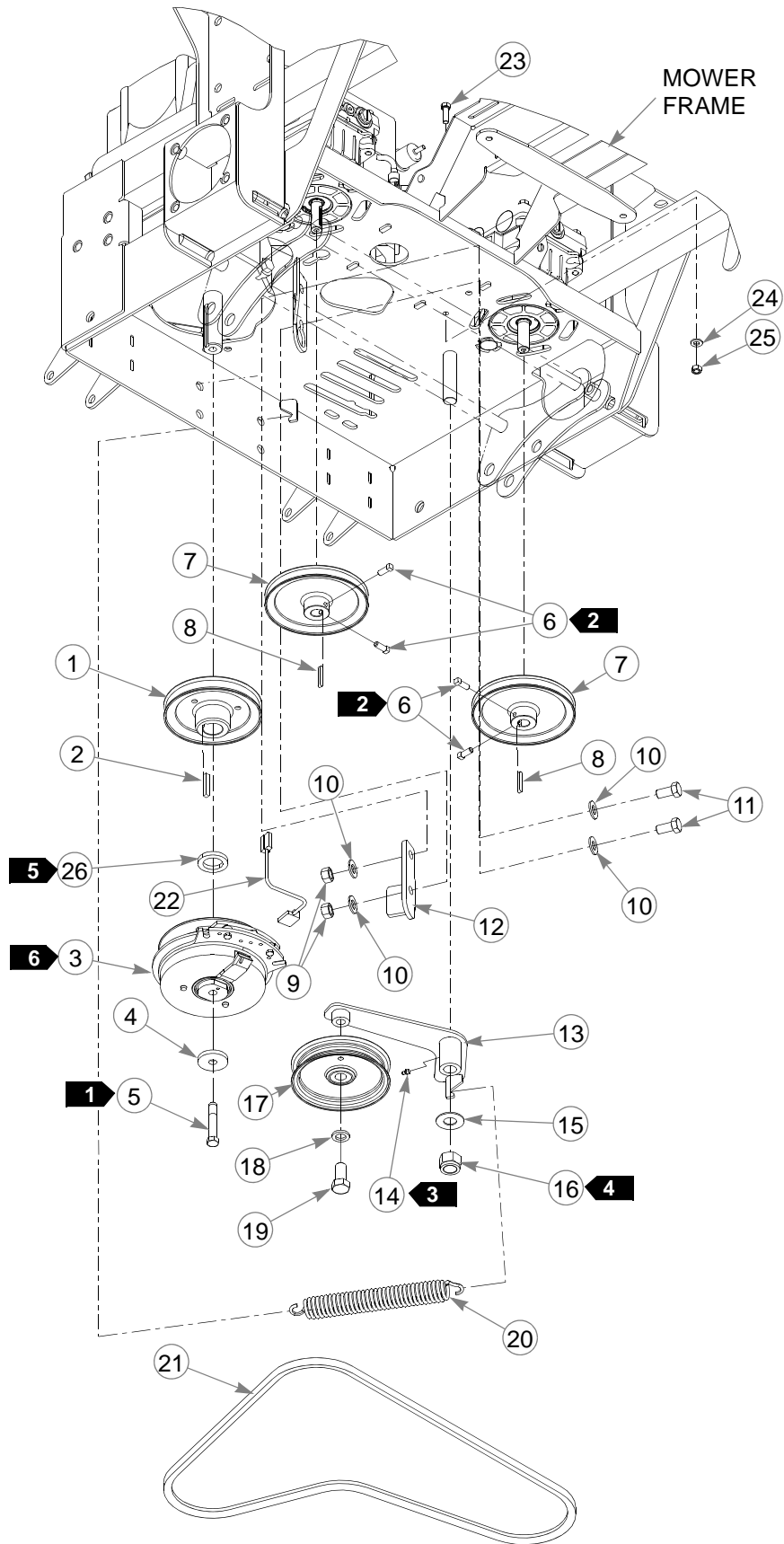
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	781260	N/A	2	STEERING BAR GRIP
1	348755	348755	2	STEERING BAR
3	767954	767954	16	FW .406 X .812 X .060 SAE HD ZN
4	036244	036244	4	CS .375-16 X 1.000 HX G5 ZN
5	705178	705178	6	CS .375-16 X 1.750 HX G5 ZN
6	348946	348946	2	STEERING ARM MOUNT
7	348888	348888	1	STEERLEVER SUPPORT LH
	348714	348714	1	STEERLEVER SUPPORT RH (NOT SHOWN)
8	781153	781153	4	BUSHING
9	348862	348862	4	STEERLEVER BUSHING
10	781716	781716	2	SS .500-13 X 1.75 SH ZN
11	086660	086660	6	NT .375-16 HX LK NY

NOTES:

1. Includes Item 1 (781260 Steering Bar Grip).

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Pump Belt and Pulleys Installation



Pump Belt and Pulleys Installation

	INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
8	1	601462	601462	1	SUPER Z SINGLE ENGINE PULLEY
7		783761	N/A	1	SUPER Z SINGLE ENGINE PULLEY
	2	212076	212076	1	KEY 1/4 SQ X 1.50 LONG
	3	601311	601311	1	CMS-200 WARNER CLUTCH
	4	783829	783829	1	FW .460 X 1.750 X .250 ZNYC (AIR COOLED ENGINES ONLY)
		712893	712893	1	FW .406X 1.25X.12 HRD ZN (26 HP KAWASAKI ONLY)
	5	785659	785659	1	CS .437-20 X 2.50 HX G5 ZNYC (AIR COOLED ENGINES ONLY)
		797142	797142	1	CS M10-1.5X 65 HX ZY G8.8 (26 HP KAWASAKI ONLY)
	6	083196	083196	4	SS .312 -18X .750 SQ-HD ZN
8	7	601461	601461	2	PULLEY FOR BDP-21
7		782466	N/A	2	PULLEY & FAN FOR BDP-21
	8	783712	783712	2	KEY FOR BDP21L
	9	008193	008193	2	NT .500-13 HX G5 ZNYC
	10	767962	767962	4	FW .531 X 1.063 X .090 SAE HD ZN
	11	705954	705954	2	CS .500 -13 X 1.25 HX G5 ZNYC
	12	366765	366765	1	CLUTCH ANCHOR ANGLE
	13	349761	349761	1	PUMP IDLER ARM
	14	015495	015495	1	STRAIGHT GREASE FITTING
	15	025296	025296	1	FW .760 X 1.625 X .08 ZN
	16	061101	061101	1	NT .750 -10 HX NL ZN
	17	781856	781856	1	IDLER PULLEY
	18	028118	028118	1	FW .62 X 1.00 X.134 ZN
	19	781872	781872	1	CS .625 -11 X 1.25 HX G5 ZN
	20	601016	601016	1	IDLER SPRING
8	21	601463	601463	1	A SEC PUMP IDLER BELT 66.98" EL
7		781443	N/A	1	A - SEC PUMP IDLER BELT
	22	791251	791251	1	CLUTCH PIGTAIL HARNESS WITH DIODE
	23	036236	036236	1	CS .312 -18 X 1.00 HX G5 ZNYC
	24	768523	768523	1	FW .343 X .687 X .051/.080 HD ZNYC
	25	034272	034272	1	NT .312 -18 HX G5 ZNYC
	26	797654	797654	1	FW 1.156 X 1.750X.250 ZY (31 HP KAWASAKI ONLY)

NOTES:

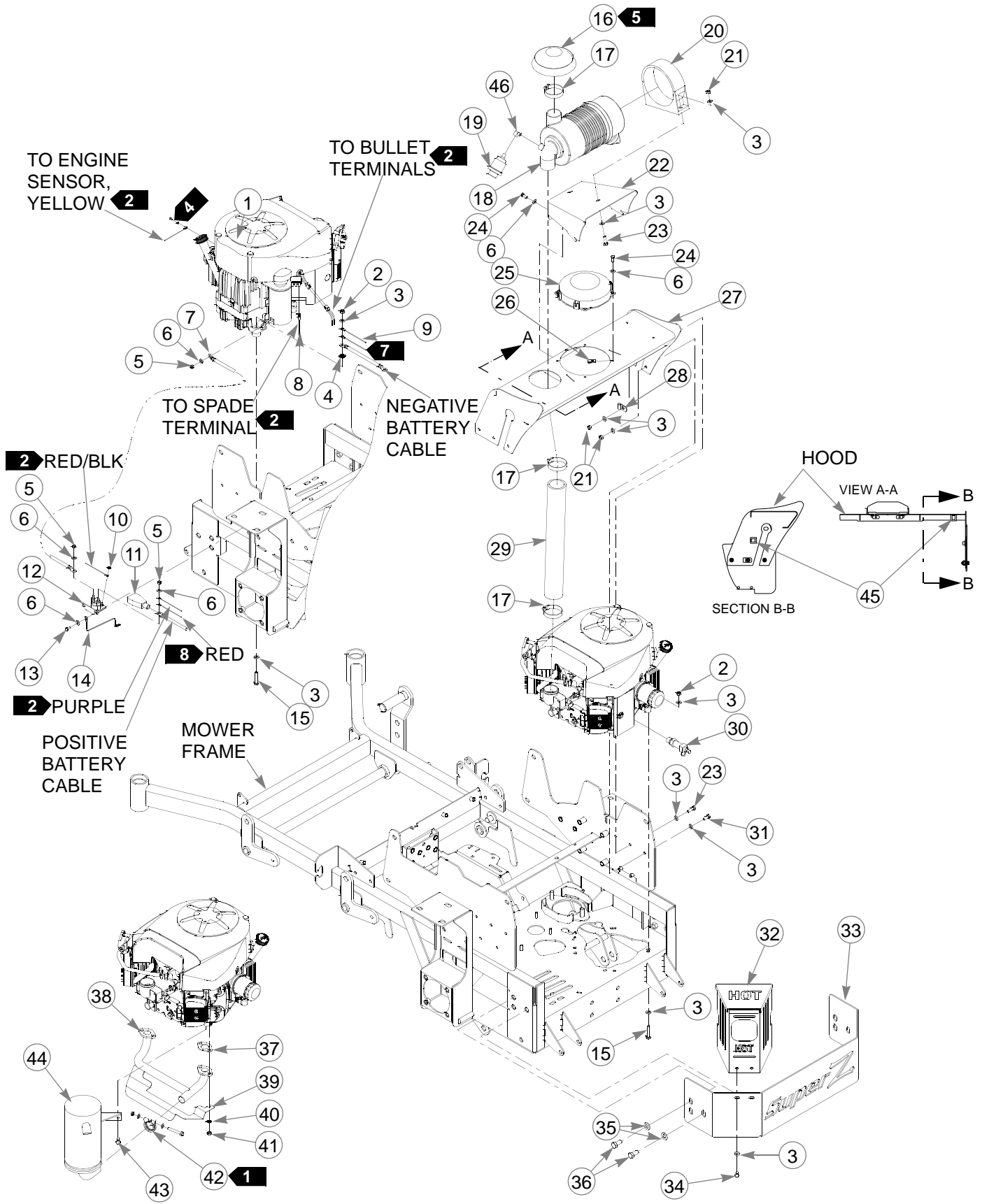
1. Torque bolt to 45-48 ft-lbs. Replace (do not reuse) cap screw if removed or loosened. Use only hand tools to install this fastener.
2. Torque to 12-15 ft-lbs.
3. Apply grease at zerk (see owners manual).
4. Do not torque Item 16 (NT .750-10 HX NL ZN), Item 13 (349761 Pump Idler Arm) should pivot freely.
5. Used with Kawasaki 31 HP engines only.
6. Use 787366 on mowers with S/N prior to 07060569.
7. Used on mowers with serial numbers prior to 10050597.
8. Used on mowers with serial numbers 10050597 and higher.
9. **Electric clutch burnishing procedure:** After installing a new clutch it is

important to burnish the clutch to insure maximum deck clutch life. In an open area with no bystanders set the engine speed to half throttle. Cycle the deck clutch on for 15 seconds, and then off for 15 seconds. Repeat this operation 10 times, it will require about 5 minutes to complete.

Section 5

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Kawasaki 25 HP Engine Installation



Kawasaki 25 HP Engine Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	782318	782318	1	KAWASAKI 25 HP 3600RPM ENGINE
2	058776	058776	4	NT .312-18 HX ZYNL
3	768523	768523	24	FW .343 X .687 X .051/.080 HD ZN/YL
4	029876	029876	1	LW .312 INT-EXT TOOTH ZN
5	024927	024927	3	NT .250-20 HX GR.5 ZN
6	768515	768515	11	FW .281 X .625 X .051/.080 HD ZN/YL
7	792762	792762	1	BATTERY CABLE
8	799312	799312	1	KAW (23 & 25 HP) WIRE HARNESS ADAPTER
9	799320	799320	1	XR7 COMMON WIRE HARNESS
10	044255	044255	1	NT #10-32 HX ZN
11	771428	771428	1	RED BATTERY CABLE BOOT
12	030817	030817	1	STARTER SOLENOID
13	055947	055947	2	CS .250-20 X .500 HX G5 ZN
14	792192	792192	1	STARTER RELAY GROUND WIRE
15	050161	050161	4	CS .312-18 X 1.75 HX G5 ZN
16	786673	786673	1	DONALDSON AIR CLEANER CAP
17	057661	057661	2	HOSE CLAMP
18	782763	782763	1	AIR CLEANER
19	788943	788943	1	AIR FILTER INDICATOR
20	785741	785741	1	MOUNTING BAND
21	034272	034272	7	NT .312-18 HX G5 ZN
22	357780	357780	1	SUPER Z HOOD SCOOP
23	036236	036236	3	CS .312-18 X 1.00 HX G5 ZNYC
24	055939	055939	6	CS .250-20 X .75 HX G5 ZNYC
25	783837	783837	1	ELECTRIC COOLER FAN
26	044818	044818	4	CN ZN TIN-C7343-1420
27	356121	356121	1	SUPER Z HOOD
28	778738	778738	1	.312 WIRING CLAMP
29	786038	786038	1	REMOTE AIR FILTER HOSE
30	796524	796524	1	M20 X 2.5 OIL DRAIN VALVE
31	034280	034280	4	CS .312-18 X .750 HX G5 ZNYC
32	350371	350371	1	MUFFLER GUARD
33	380618	380618	1	SUPER Z ENGINE GUARD
34	064006	064006	2	CS .312-18 X .625 HX G5 ZN
35	767962	767962	4	FW .531 X 1.063 X .090 SAE HD ZN
36	016527	016527	4	CS .500-13 X 1.00 HX G5 ZN
37	780841	780841	2	KAW (23) MUFFLER GASKET
38	781732	781732	1	MUFFLER MANIFOLD
39	360693	360693	1	HEAT SHIELD
40	017004	017004	4	LW .312 MED SPRING ZN
41	782664	782664	4	NT M8 -1.25 HX STAINLESS STEEL
42	782649	782649	1	KAW (23) EXHAUST PIPE CLAMP
43	720177	720177	2	CS M 8-1.25 X 20 10.9 HXFL ZN
44	781724	781724	1	MUFFLER
45	047654	047654	2	CLIP
46	601216	601216	1	ELBOW FITTING, STREET

NOTES:

1. Includes mounting hardware.
2. Part of Item 8 (799312 Wire Harness, Adapter).
3. Engine oil capacity; See owners manual.

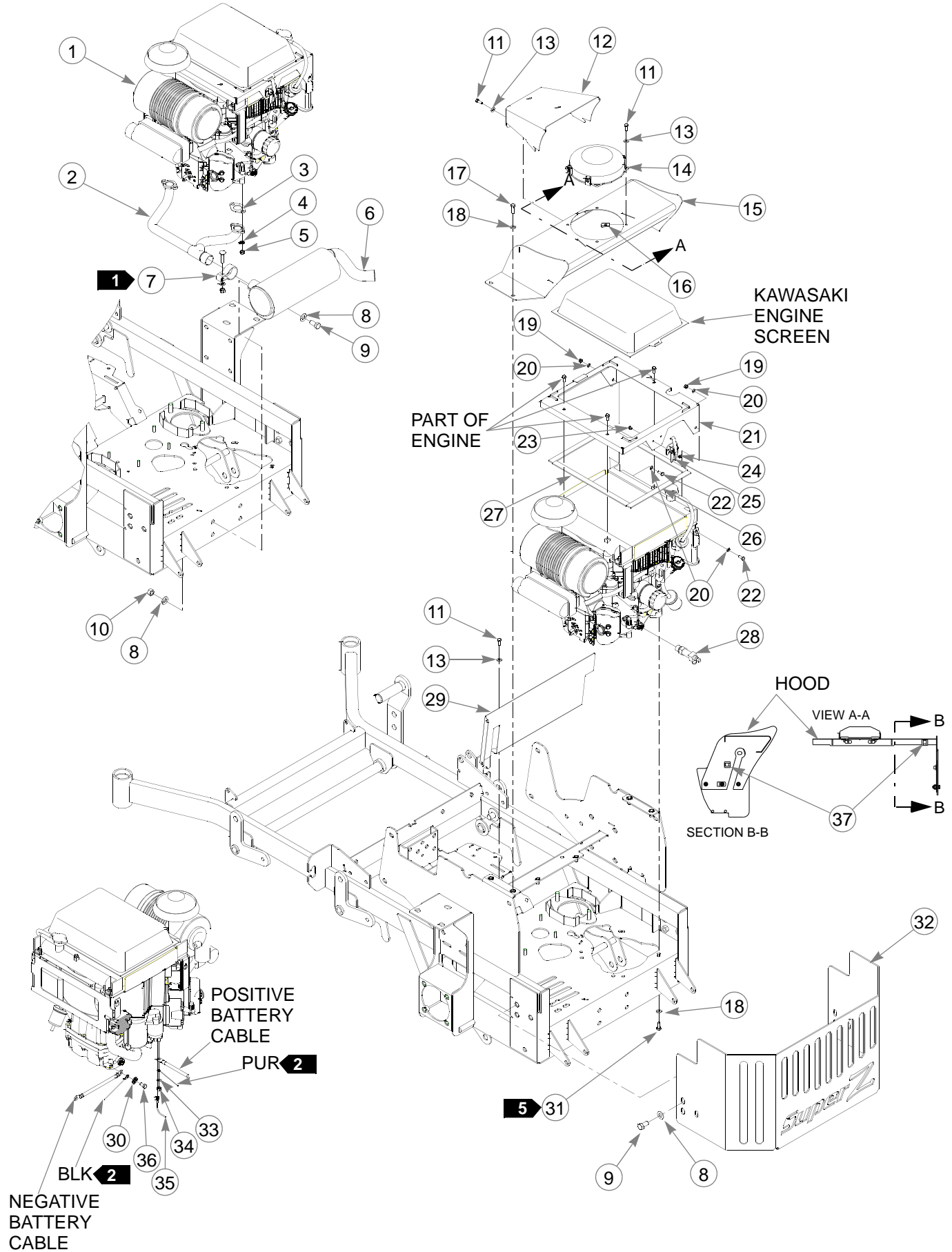
ENGINE SPEEDS	
MODEL NO. ENDING IN:	HIGH IDLE
NO EXTENSION, A, B, EX	3600±50 RPM

4. Supplied with engine.
5. Includes one (1) of 057661 Hose Clamp.
6. When installing lower hose clamp on air cleaner hose, install as low as possible (against carburetor inlet).
7. Ground wires from main wire harness (799320) and starter solenoid (item 12-030817).
8. Wires from main wire harness (799320).
9. Air filter service parts:

785261	MAIN AIR FILTER ELEMENT (S/N 10062494 AND AFTER)
785279	SAFETY AIR FILTER ELEMENT (S/N 10062494 AND AFTER)
763318	VACUATOR VALVE

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Kawasaki 26 HP Engine Installation



Kawasaki 26 HP Engine Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION	
1	795617	795617	1	KAWASAKI FD731V ENGINE	
2	796748	796748	1	KAWASAKI 26HP EXHAUST MANIFOLD	
3	780841	780841	2	KAW (23) MUFFLER GASKET	
4	017004	017004	4	LW .312 MED SPRING ZN	
5	782664	782664	4	NT M8-1.25 HX STAINLESS STEEL	
6	796755	796755	1	KAWASAKI 26HP LC MUFFLER	
7	785378	785378	1	1.50" MUFFLER CLAMP	
8	767962	767962	10	FW .531 X 1.063 X .090 SAE HD ZN	
9	016527	016527	8	CS .500-13 X 1.00 HX G5 ZN	
10	008193	008193	4	NT .500-13 HX G5 ZNYC	
11	055939	055939	9	CS .250-20 X .75 HX G5 ZNYC	
12	357780	357780	1	SUPER Z HOOD SCOOP	
13	768515	768515	9	FW .281 X .625 X .051/.080 HD ZN/YL	
14	783837	783837	1	ELECTRIC COOLER FAN	
15	348672	348672	1	KAWASAKI LC 26HP HOOD	
16	044818	044818	4	CN ZN TIN-C7343-1420	
17	036236	036236	4	CS .312-18 X 1.00 HX G5 ZNYC	
18	768523	768523	8	FW .343 X .687 X .051/.080 HD ZN/YL	
19	024927	024927	2	NT .250-20 HX GR. 5 ZNYC	
20	073866	073866	4	FW .281 X .500 X .06 ZNYC	
21	104133	104133	1	SCREEN SUPPORT	
22	064329	064329	2	CS .250-20 X .625 HX G5	
23	030437	030437	2	MS #10-24 X .375 RD SL	
24	035626	035626	2	NT #10-24 HX ZN	
25	010470	010470	1	OVER CENTER LATCH ZINC	
26	033035	033035	2	.12 X .75 X 11" WEATHERSTRIP	
27	033035	033035	2	.12 X .75 X 13.5" WEATHERSTRIP	
28	796524	796524	1	M20 X 2.5 OIL DRAIN VALVE	
29	109566	109566	1	ENGINE AIR BAFFLE	
30	029876	029876	1	LW .312 INT-EXT TOOTH ZN	
31	028035	028035	4	CS M 8-1.25 X 20 HX G8.8	
32	100495	100495	1	SUPER Z ENGINE GUARD	
33	017079	017079	1	FW .250 X .560 X .04 SAE Z	
34	077545	N/A	1	NT M8-1.25-10-HX ZNYC	
6	35	799338	799338	1	26HP KAWASAKI WIRE HARNESS
		796599	796599	1	26HP KAWASAKI WIRE HARNESS
	36	720516	720516	1	CS M8 X1.25 X 16 G10.9 HX
	37	047654	047654	2	CLIP

NOTES:

1. Includes mounting hardware.
2. Part of Item 35 (799338 Mower Wire Harness).
3. Engine oil capacity: See engine owner's manual.
4. Engine coolant capacity, See engine owner's manual.
5. Torque to 30 ft.-lbs.

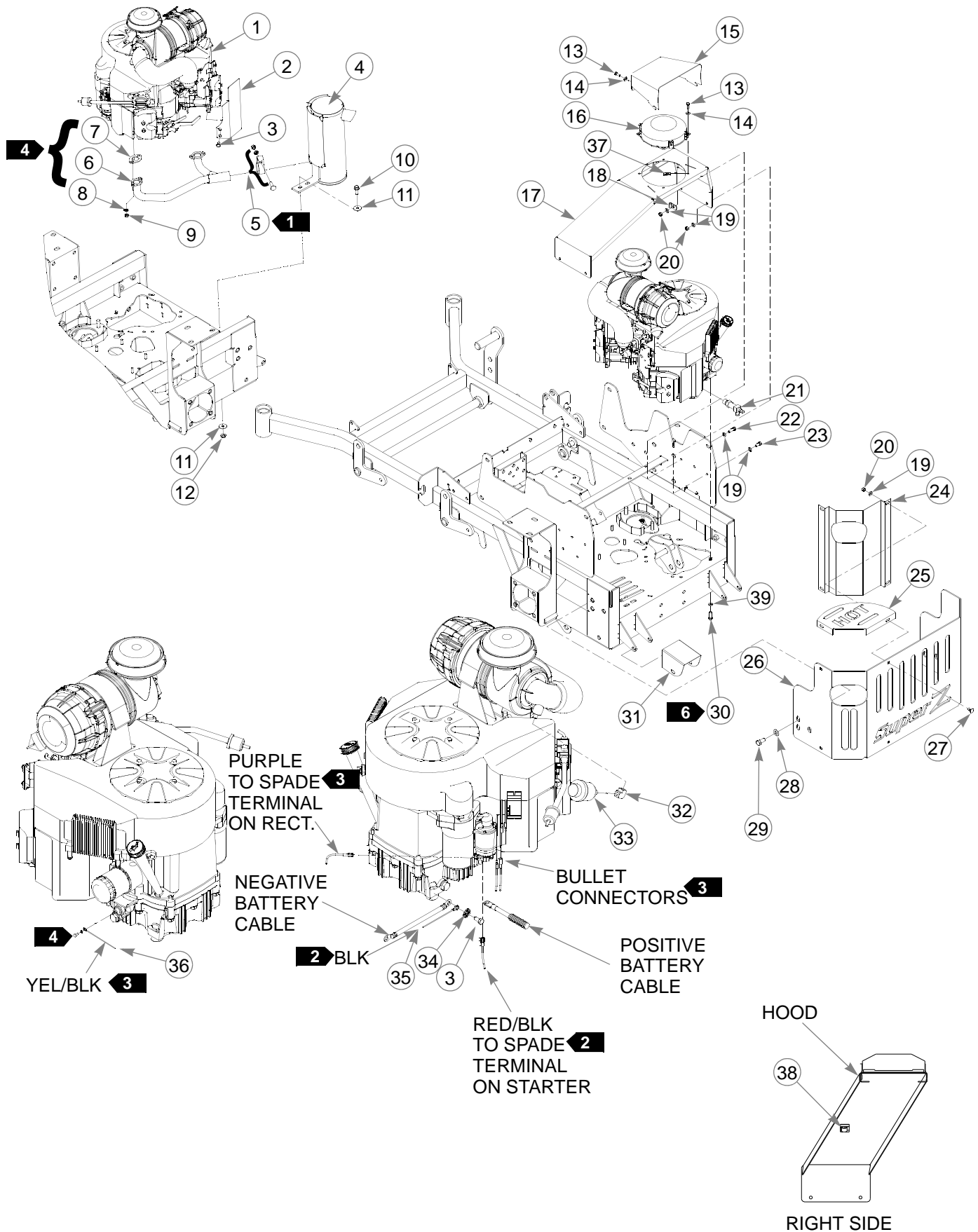
6. Mowers with S/N prior to 06050332 use 796599. Mowers with S/N higher than 06050332 use 799338.

7. Air filter service parts:

785261	MAIN AIR FILTER ELEMENT
785279	SAFETY AIR FILTER ELEMENT
763318	VACUATOR VALVE

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Kawasaki 31 HP Engine Installation



Kawasaki 31 HP Engine Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	601549	N/A	1	KAWASAKI 31 HP ENGINE
2	109743	109743	1	CABLES HEAT SHIELD
3	720516	720516	3	CS M8 X1.25 X 16 G10.9 HX
4	788018	788018	1	MUFFLER
5	785378	785378	1	1.50" MUFFLER CLAMP
6	601550	601550	1	MANIFOLD, 29/31 KAW
7	780841	780841	2	KAW MUFFLER GASKET
8	017004	N/A	4	LW .312 MED SPRING ZN
9	782664	N/A	5	NT M8-1.25 HX STAINLESS STEEL
10	029751	029751	2	CS .375-16 X 1.00 HXFLK ZNYC
11	705137	705137	4	FW .391 X 1.250 X .060 ZNYC
12	016899	016899	2	NT .375-16 HX FLK ZNYC
13	055939	055939	6	CS .250-20 X .75 HX G5 ZNYC
14	768515	768515	6	FW .281 X .625 X .051/.080 HD ZN/YL
15	109748	109748	1	HOOD SCOOP
16	783837	783837	1	ELECTRIC COOLER FAN
17	109604	109604	1	REMOTE AIR BRACKET
18	778738	778738	1	.312 WIRING CLAMP
19	768523	768523	12	FW .343 X .687 X .051/.080 HD ZN/YL
20	034272	034272	8	NT .312-18 HX G5 ZN
21	796524	796524	1	M20X2.5 OIL DRAIN VALVE
22	036236	036236	1	CS .312-18 X 1.00 HX G5 ZNYC
23	034280	034280	3	CS .312-18 X .750 HX G5 ZNYC
24	109749	109749	1	EXHAUST HEAT SHIELD
25	338475	338475	1	MMZ TALL HEAT SHIELD
26	337402	337402	1	SUPER Z ENGINE GUARD
27	016253	016253	4	CB .312-18 X .750 FUL ZN
28	767962	767962	6	FW .531 X 1.063 X .090 SAE HD ZN
29	016527	016527	6	CS .500-13 X 1.00 HX G5 ZN
30	602580	602580	4	CS .375-16 X 1.00 HX G5 ZNYC
31	377994	377994	1	HEAT SHIELD, MMZ ROLLER
32	601216	601216	1	FITTING, 90 1/8NPT BRASS
33	788943	788943	1	AIR FILTER INDICATOR
34	029876	029876	1	LW .312 INT-EXT TOOTH ZN
35	799320	799320	1	XR7 COMMON WIRE HARNESS
36	601561	601561	1	WIRING HARNESS, KAWASAKI 29,31
37	044818	044818	4	CN ZN TIN-C7343-1420
38	047654	047654	1	CLIP
39	767954	767954	4	FW .406X .812 X.060 SAE

NOTES:

1. Includes mounting hardware.
2. Wires from Item 35 (XR7 Common Wire Harness 799320).
3. Wires from Kawasaki 29HP, 31HP Wiring Harness (601561).
4. Supplied with engine.

-
5. Engine oil capacity, Refer to engine owner's manual.
 6. Torque to 30 ft.-lbs. If the fastener is loosened or removed, do not re-use. Replace with a new fastener. Use only hand tools to install this fastener.

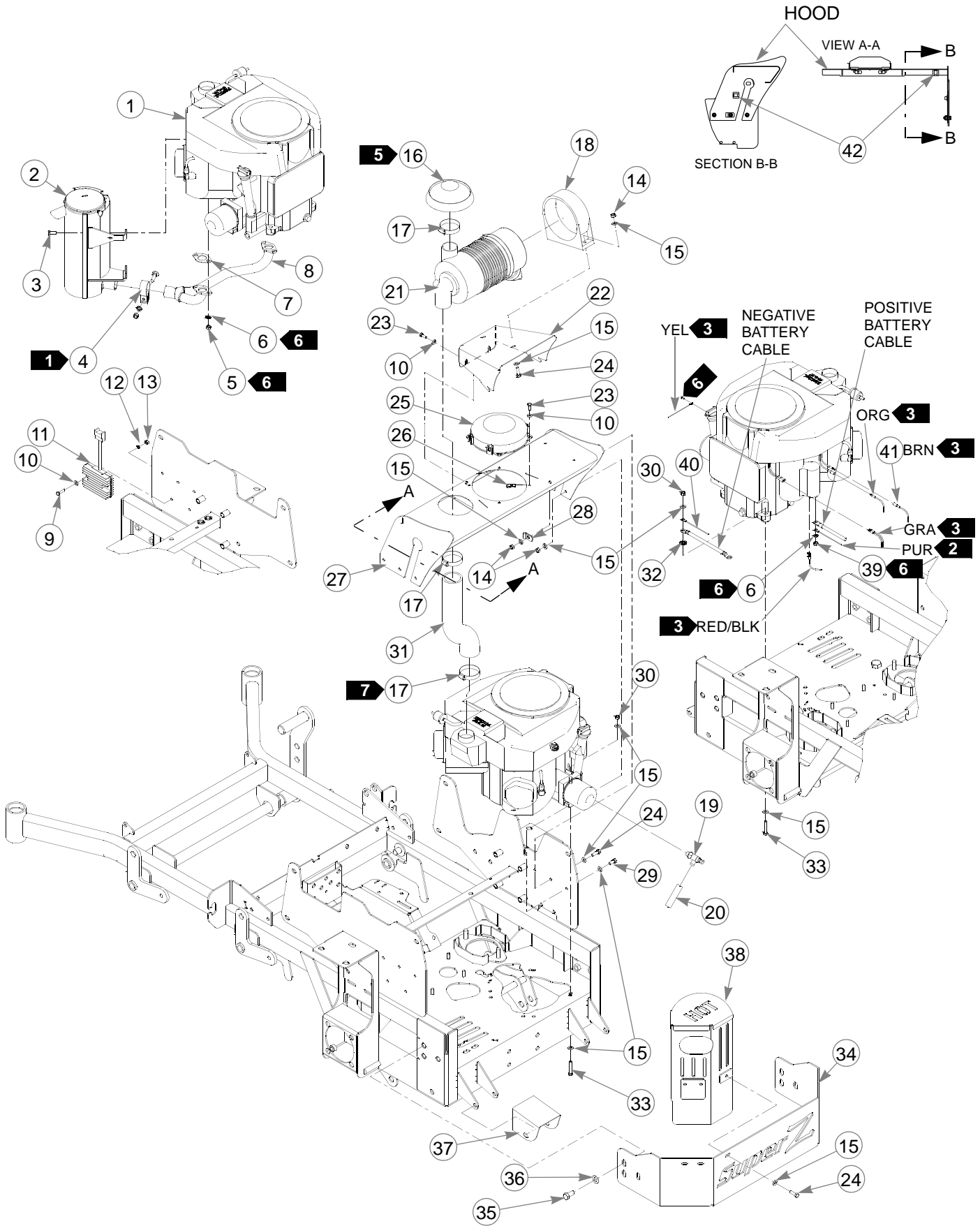
ENGINE SPEEDS	
MODEL NO. ENDING IN:	HIGH IDLE
A, B, OR EX	3600±50 RPM

7. Air filter service parts:

785261	MAIN AIR FILTER ELEMENT
785279	SAFETY AIR FILTER ELEMENT
601652	MAIN AIR FILTER ELEMENT (PRIOR TO S/N 10062494)
601653	SAFETY AIR FILTER ELEMENT (PRIOR TO S/N 10062494)

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Honda 24 HP Engine Installation



Honda 24 HP Engine Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	785014	785014	1	HONDA 24HP ENGINE
2	784843	784843	1	MUFFLER
3	720177	720177	2	CS M 8-1.25 X 20 10.9 HXFL ZN
4	785378	785378	1	1.50" MUFFLER CLAMP
5	782664	N/A	4	NT M8-1.25 HX STAINLESS STEEL
6	017004	N/A	4	LW .312 MED SPRING ZN
7	785543	N/A	2	HONDA (20) MUFFLER GASKET
8	784959	784959	1	MUFFLER MANIFOLD
9	056077	056077	2	CS .250-20 X 1.00 HX G5 ZNYC
10	768515	768515	8	FW .281 X .625 X .051/.080HD ZNYC
11	785477	N/A	1	HONDA 20 AMP RECTIFIER
12	017038	017038	2	LW .250 MED SPRING ZNYC
13	024927	024927	2	NT .250-20 HX GR.5 ZNYC
14	034272	034272	7	NT .312-18 HX G5 ZN
15	768523	768523	25	FW .343 X .687 X .051/.080 HD ZN/YL
16	786673	786673	1	DONALDSON AIR CLEANER CAP
17	057661	057661	2	HOSE CLAMP
18	785741	785741	1	MOUNTING BAND
19	787689	787689	1	HONDA OIL DRAIN VALVE
20	787713	787713	1	0.50" LOW PRESSURE HOSE, 3.00" LONG
21	782763	782763	1	AIR CLEANER
22	357780	357780	1	HOOD SCOOP
23	055939	055939	6	CS .250-20 X .750 HX G5 ZNYC
24	036236	036236	6	CS .312-18 X 1.00 HX G5 ZNYC
25	783837	783837	1	ELECTRIC COOLER FAN
26	044818	044818	4	CN ZN TIN-C7343-1420
27	356121	356121	1	SUPER Z HOOD
28	778738	778738	1	.312 WIRING CLAMP
29	034280	034280	4	CS .312-18X .750 HX G5 ZNYC
30	058776	058776	4	NT .312-18 HX ZYNL
31	785675	785675	1	REMOTE AIR FILTER HOSE
32	029876	029876	1	LW .312 INT-EXT TOOTH ZN
33	050161	050161	4	CS .312-18 X 1.75 HX G5 ZN
34	380691	380691	1	SUPER Z ENGINE GUARD
35	016527	016527	4	CS .500-13 X 1.00 HX G5 ZNYC
36	767962	767962	4	FW .531 X 1.063 X .090 SAE HD ZN
37	377994	377994	1	MMZ ROLLER HEAT SHIELD
38	382168	382168	1	MUFFLER GUARD
39	077545	N/A	1	NT M8-1.25 X 10 HX ZNYC
40	799320	799320	1	XR7 COMMON WIRE HARNESS
41	799304	799304	1	HONDA 24HP WIRE HARNESS ADAPTER
42	047654	047654	2	CLIP

NOTES:

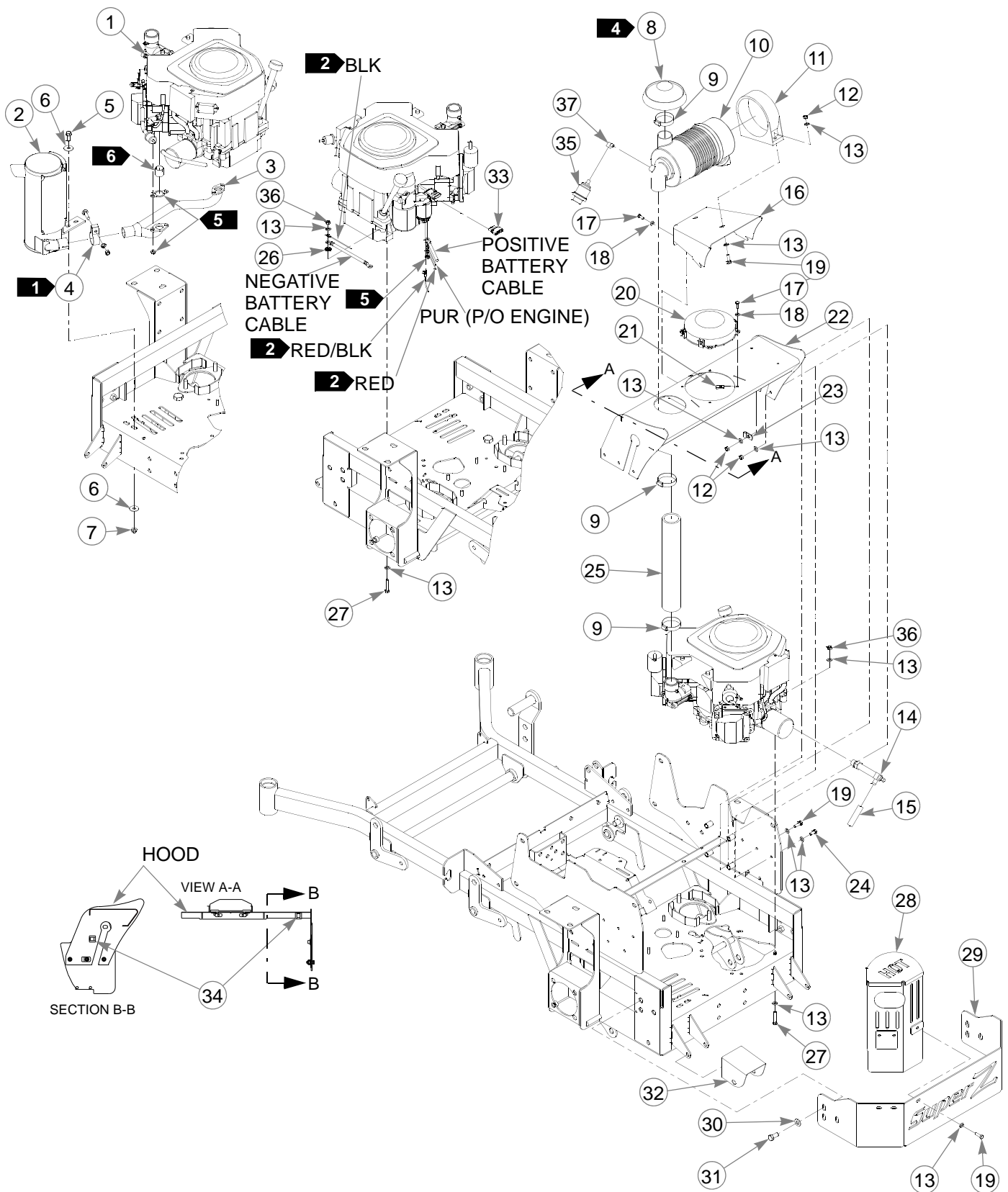
1. Includes mounting hardware.
2. Part of Item 40 (799320 XR7 Common Wire Harness).

-
3. Part of Item 41 (799304 Honda 24hp Wire Harness Adapter).
 4. Engine oil capacity; See engine owner's manual.
 5. Includes one (1) of 057661 Hose Clamp.
 6. Supplied with engine.
 7. When installing lower hose clamp on air cleaner hose, install as low as possible (against carburetor inlet).
 8. Air filter service parts:

785261	MAIN AIR FILTER ELEMENT
763318	VACUATOR VALVE

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Kohler 27 & 30 HP Engine Installation



Kohler 27 & 30 HP Engine Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	788216	788216	1	KOHLER 27HP ENGINE CV740
	799296	799296	1	KOHLER 30 HP ENGINE CV750
2	788018	788018	1	MUFFLER
3	788026	788026	1	MUFFLER MANIFOLD
4	785378	785378	1	1.50" MUFFLER CLAMP
5	029751	029751	2	CS .375-16 X 1.00 HXFLK ZNYC
6	705137	705137	4	FW .391 X 1.250 X .060 ZNYC
7	016899	016899	2	NT .375-16 HXFLK ZNYC
8	786673	786673	1	DONALDSON AIR CLEANER CAP
9	057661	057661	3	HOSE CLAMP
10	782763	782763	1	AIR CLEANER
11	785741	785741	1	MOUNTING BAND
12	034272	034272	7	NT .312-18 HX G5 ZN
13	768523	768523	25	FW .343 X .687 X .051/.080 HD ZN/YL
14	796672	796672	1	3/8-18 OIL DRAIN VALVE
15	787713	787713	1	0.50" LOW PRESSURE HOSE
16	357780	357780	1	HOOD SCOOP
17	055939	055939	6	CS .250-20 X .750 HX G5 ZNYC
18	768515	768515	6	FW .281 X .625 X .051/.080 HD ZNYC
19	036236	036236	6	CS .312-18 X 1.00 HX G5 ZNYC
20	783837	783837	1	ELECTRIC COOLER FAN
21	044818	044818	4	CN ZN TIN-C7343-1420
22	356121	356121	1	SUPER Z HOOD
23	778738	778738	1	.312 WIRING CLAMP
24	034280	034280	4	CS .312-18X .750 HX G5 ZNYC
25	795310	795310	1	REMOTE AIR FILTER HOSE
26	029876	029876	1	LW .312 INT-EXT TOOTH ZN
27	050161	050161	4	CS .312-18 X 1.75 HX G5
28	382168	382168	1	MUFFLER GUARD
29	380691	380691	1	SUPER Z ENGINE GUARD
30	767962	767962	4	FW .531 X 1.063 X .090 SAE HD ZN
31	016527	016527	4	CS .500-13 X 1.00 HX G5 ZNYC
32	377994	377994	1	MMZ ROLLER HEAT SHIELD
33	799320	799320	1	COMMON AIR COOLED WIRE HARNESS
34	047654	047654	2	CLIP
35	788943	788943	1	AIR FILTER INDICATOR
36	058776	058776	4	NT .312-18 HX ZYNL
37	601216	601216	1	ELBOW FITTING, STREET

NOTES:

1. Includes mounting hardware.
2. Part of Item 33 (799320 Mower Wire Harness).
3. Engine oil capacity; See engine owner's manual..

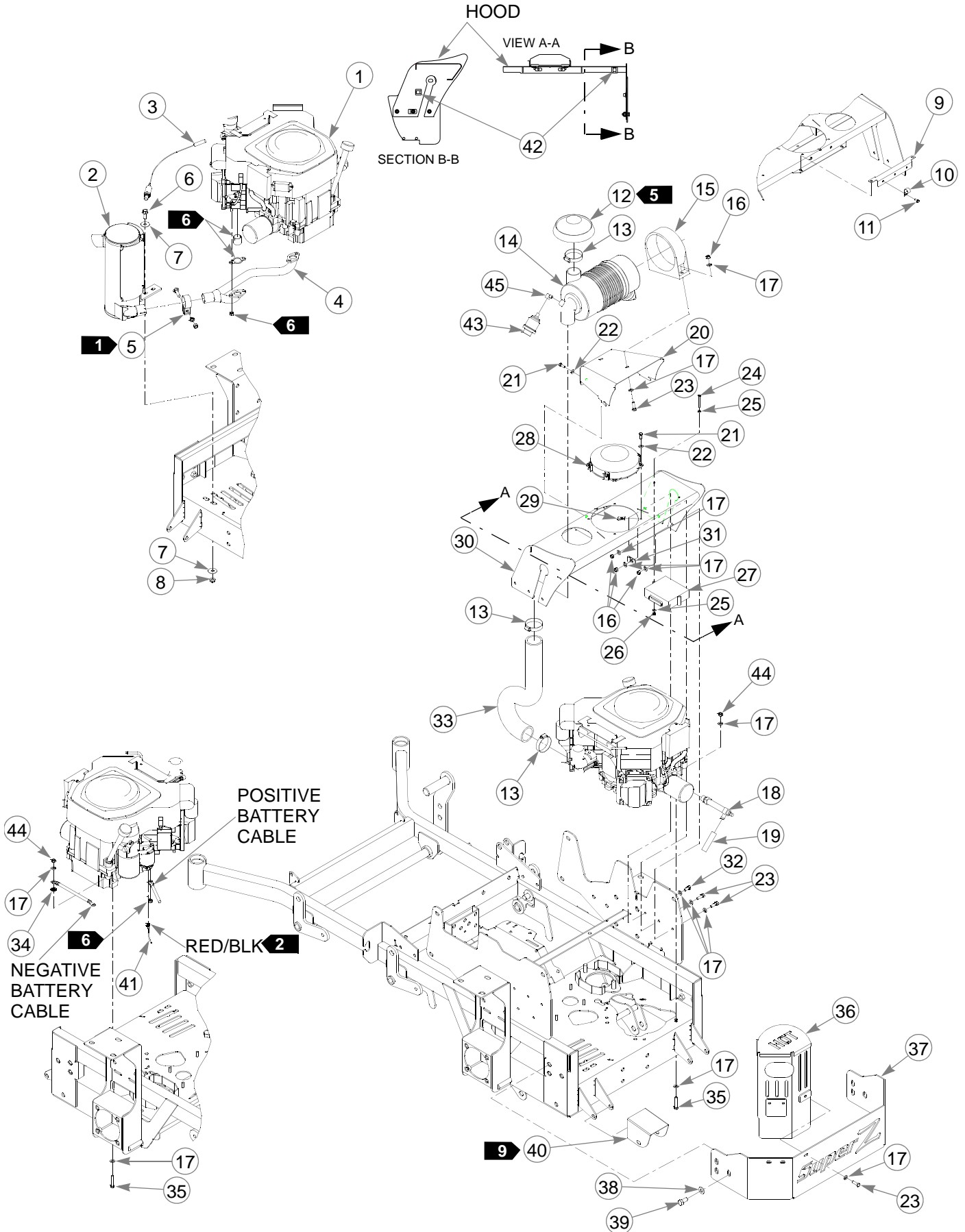
ENGINE SPEEDS			
MODEL NO. ENDING IN:	HP	LOW IDLE	HIGH IDLE
NO EXTENSION, A, B, OR EX	27	N/A	3600±50 RPM
A, B, OR EX	30	1800±100 RPM	3600±50 RPM

4. Includes one (1) of 057661 Hose Clamp.
5. Supplied with engine.
6. Supplied with the 27 HP Engine (788216); not required on the 30 HP Engine (799296).
7. Air filter service parts:

785261	MAIN AIR FILTER ELEMENT
763318	VACUATOR VALVE

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Kohler 28 HP EFI Engine Installation



Kohler 28 HP EFI Engine Installation

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	788224	788224	1	KOHLER CV745 EFI ENGINE
2	789123	789123	1	MUFFLER
3	791442	N/A	1	KOHLER EFI OXYGEN SENSOR
4	788026	788026	1	MUFFLER MANIFOLD
1 5	785378	785378	1	1.50" MUFFLER CLAMP
6	029751	029751	2	CS .375-16 X 1.00 HXFLK ZNYC
7	705137	705137	4	FW .391 X 1.250 X .060 ZNYC
8	016899	016899	2	NT .375-16 HXFLK ZNYC
9	301986	301986	1	FUSE/RELAY MOUNT PLATE
10	042960	042960	1	CLIP CFV-0609
11	060731	060731	3	CS 10-24X .500 HXFLK ZNYC
12	786673	786673	1	DONALDSON AIR CLEANER CAP
13	057661	057661	2	HOSE CLAMP
14	782763	782763	1	AIR CLEANER
15	785741	785741	1	MOUNTING BAND
16	034272	034272	7	NT .312-18 HX G5 ZN
17	768523	768523	25	FW .343 X .687 X .051/.080 HD ZN/YL
18	796672	796672	1	3/8-18 OIL DRAIN VALVE
19	787713	787713	1	0.50" LOW PRESSURE HOSE
20	357780	357780	1	HOOD SCOOP
21	055939	055939	6	CS .250-20 X .750 HX G5 ZNYC
22	768515	768515	6	FW .281 X .625 X .051/.080 HD ZNYC
23	036236	036236	7	CS .312-18 X 1.00 HX G5 ZNYC
24	791434	791434	2	CS 10-24 X 2.00 HX G5 ZNYC
25	704932	704932	4	FW .219 X .500 X .048 ZNYC
26	059832	059832	2	NT #10-24 HX NL ZN
27	789602	N/A	1	KOHLER EFI ECU
28	783837	783837	1	ELECTRIC COOLER FAN
29	044818	044818	4	CN ZN TIN-C7343-1420
30	356121	356121	1	SUPER Z HOOD
31	778738	778738	1	.312 WIRING CLAMP
32	034280	034280	3	CS .312-18 X .750 HX G5
33	788034	788034	1	REMOTE AIR FILTER HOSE
34	029876	029876	1	LW .312 INT-EXT TOOTH ZN
35	050161	050161	4	CS .312-18 X 1.75 HX G5
36	382168	382168	1	MUFFLER GUARD
37	380691	380691	1	SUPER Z ENGINE GUARD
38	767962	767962	4	FW .531 X 1.063 X .090 SAE HD ZN
39	016527	016527	4	CS .500-13 X 1.00 HX G5 ZNYC
40	377994	377994	1	MMZ ROLLER HEAT SHIELD
41	799346	799346	1	SUPER Z KOHLER EFI WIRE HARNESS
42	047654	047654	2	CLIP
43	788943	788943	1	AIR FILTER INDICATOR
44	058776	058776	4	NT .312-18 HX ZYNL
45	601216	601216	1	ELBOW FITTING, STREET

NOTES:

1. Includes mounting hardware.
2. Part of Item 41 (799346 Mower Wire Harness).
3. Engine oil capacity; See engine owner's manual.

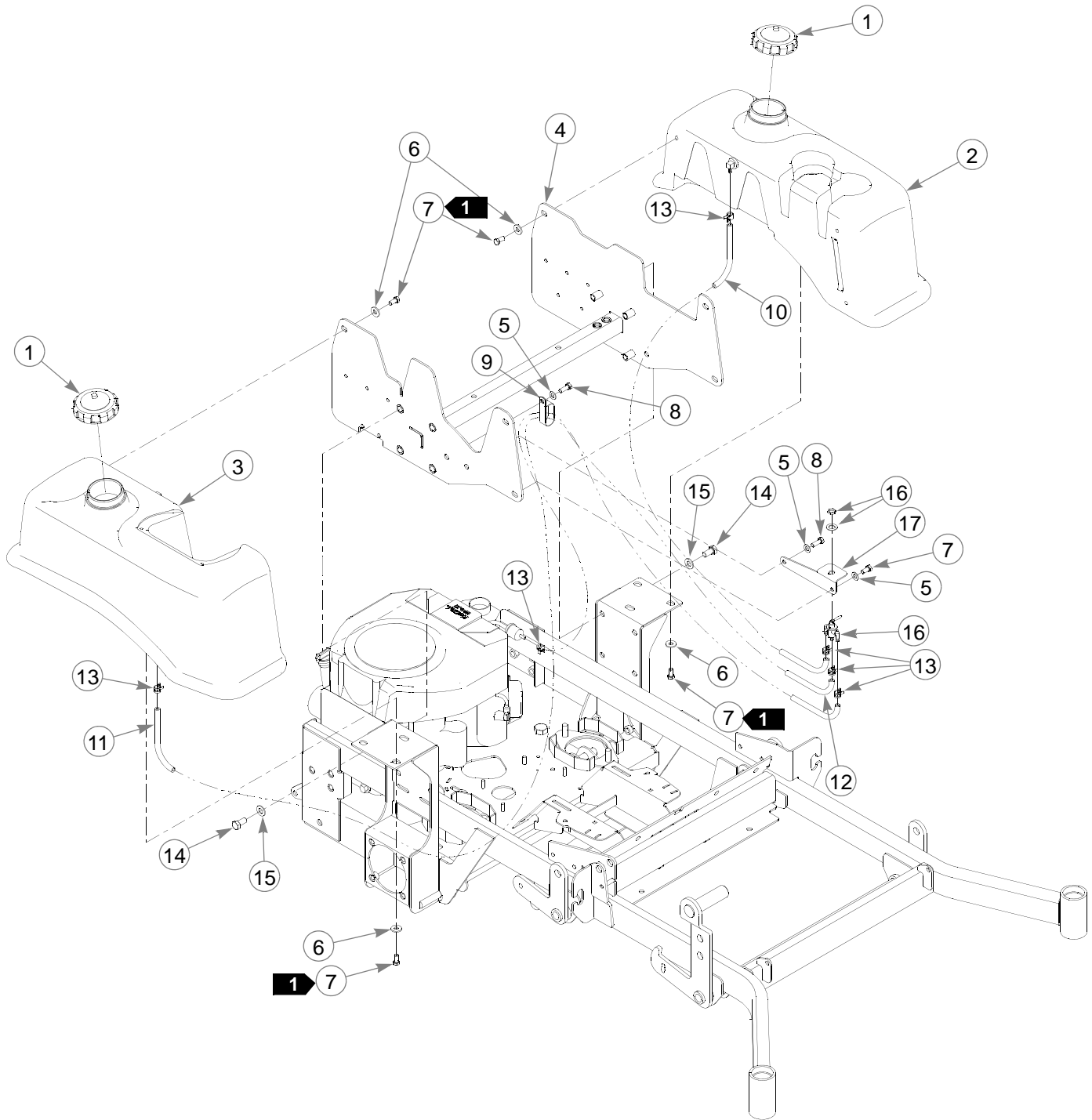
ENGINE SPEEDS	
MODEL NO. ENDING IN:	HIGH IDLE
A, B, OR EX	3600±50 RPM

4. Includes one (1) of 057661 Hose Clamp.
5. Supplied with engine.
6. Air filter service parts:

785261	MAIN AIR FILTER ELEMENT
763318	VACUATOR VALVE

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Fuel System—Air Cooled W/Carburetor



Fuel System–Air Cooled W/Carburetor

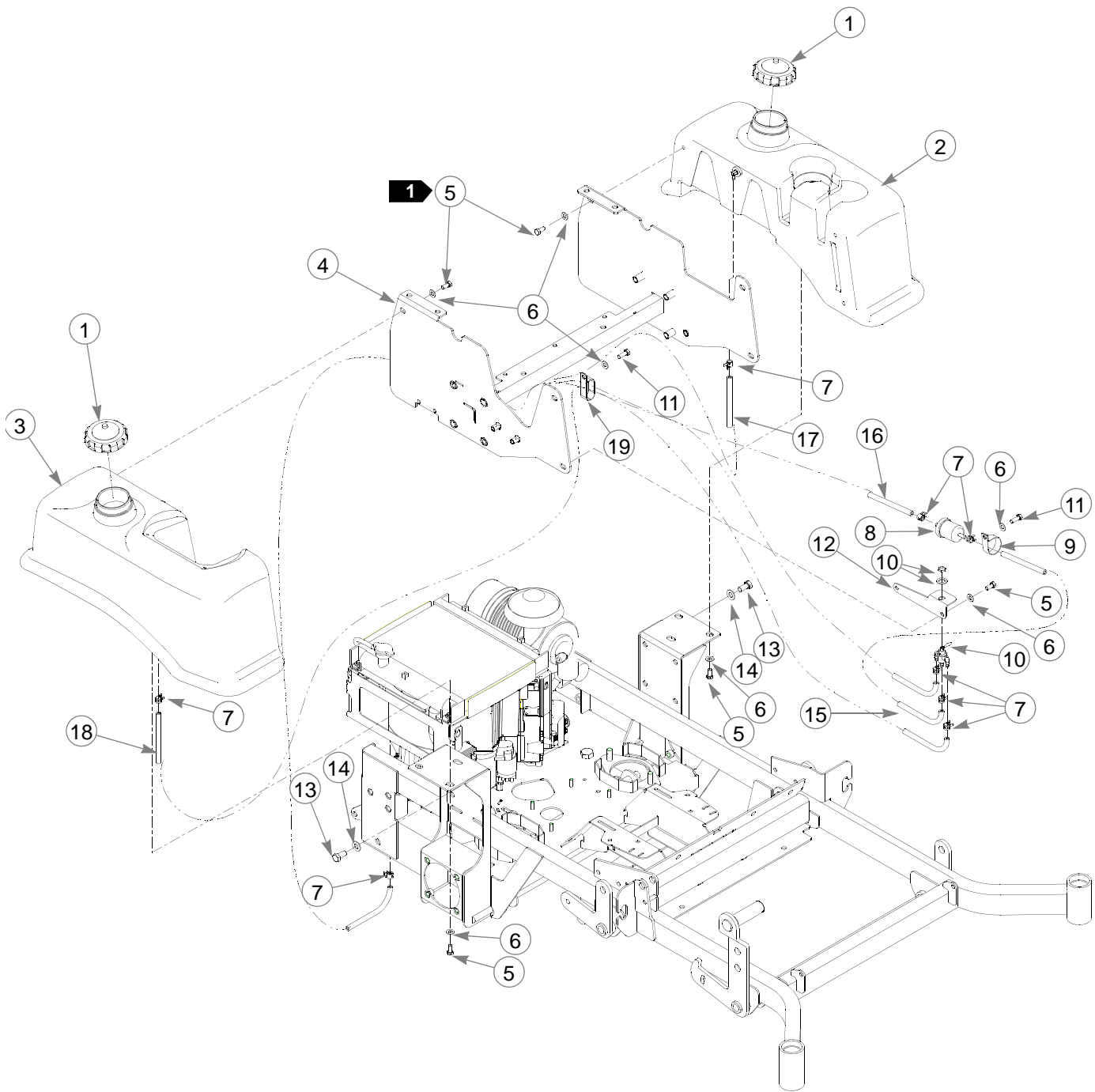
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	779306	779306	2	FUEL TANK CAP
2	793240	793240	1	LEFT SIDE FUEL TANK
3	793232	793232	1	RIGHT SIDE FUEL TANK
4	106732	N/A	1	REAR SEAT SUPPORT
5	767954	767954	3	FW .406 X .812 X .060 SAE HD ZN
6	712919	712919	11	FW .406 X 1.00 X .12 HRD ZN
7	055822	055822	12	CS .375-16 X .750 HX G5 ZN
8	036244	036244	2	CS .375-16 X 1.000 HX G5 ZN
9	045088	045088	1	HOSE CLAMP 1"
10	015818	015818	1	FUEL LINE 45.5" TOTAL
11	015818	015818	1	FUEL LINE 26.5" TOTAL
12	015818	015818	1	FUEL LINE 22.5" TOTAL (KAWASAKI)
	015818	015818	1	FUEL LINE 36" TOTAL (HONDA)
	015818	015818	1	FUEL LINE 38" TOTAL (KOHLER)
13	000323	000323	6	CLIP
14	705954	705954	8	CS .500-13X1.25 HX G5 Z
15	767962	767962	8	FW .531 X 1.063 X .090 SAE HD ZN
16	797084	797084	1	3-WAY FUEL VALVE
17	347989	347989	1	FUEL SHUT-OFF BRACKET
	000331	000331	3	BLACK CABLE TIE (NOT SHOWN)

NOTES:

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

PART NO.	DESCRIPTION
601529	SUCTION HOSE ASSY
785295	FUEL GROMMET
792986	1/4 X 1/4 ELBOW FITTING

Fuel System–Liquid Cooled (S/N Higher Than 08020664)



Fuel System–Liquid Cooled (S/N Higher Than 08020664)

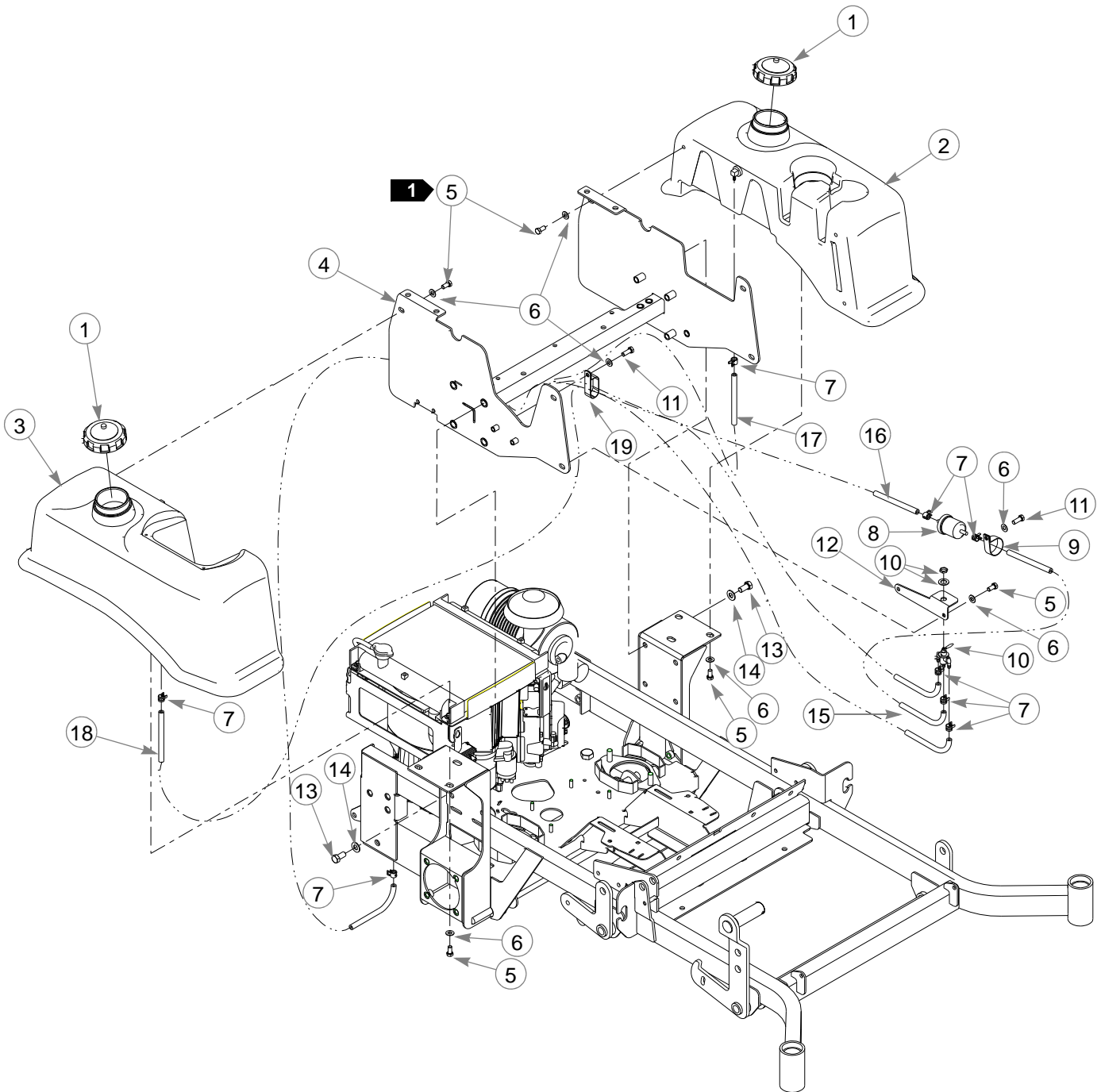
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	779306	779306	2	3.5" FUEL TANK CAP
2	793240	793240	1	LEFT SIDE Z FUEL TANK
3	793232	793232	1	RIGHT SIDE Z FUEL TANK
4	549287	109568	1	REAR SEAT SUPPORT
5	055822	055822	12	CS .375-16 X .750 HX G5 ZN
6	712919	712919	14	FW .406 X 1.00 X .12 HRD Z
7	000323	000323	8	CLIP
8	068478	068478	1	IN-LINE FUEL FILTER
9	797035	797035	1	1.75"DIA RUBBER COATED CLAMP
10	797084	797084	1	3-WAY NYLON FUEL VALVE
11	036244	036244	2	CS .375-16 X 1.00 HX G5 ZNYC
12	347989	347989	1	FUEL SHUT-OFF BRACKET
13	705954	705954	8	CS .500-13 X 1.25 HX G5 Z
14	767962	767962	8	FW .531 X 1.063 X .090 SAE HD ZN
15	015818	015818	1	FUEL LINE 6.00" LONG
16	015818	015818	1	FUEL LINE 26.75" LONG
17	015818	015818	1	FUEL LINE 45.38" LONG
18	015818	015818	1	FUEL LINE 29.00" LONG
19	045088	045088	1	HOSE CLAMP 1"
	000331	000331	3	BLACK CABLE TIE (NOT SHOWN)

NOTES:

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

PART NO.	DESCRIPTION
601529	SUCTION HOSE ASSY
785295	FUEL GROMMET
792986	1/4 X 1/4 ELBOW FITTING

Fuel System—Liquid Cooled (S/N Prior To 08020664)



Fuel System–Liquid Cooled (S/N Prior To 08020664)

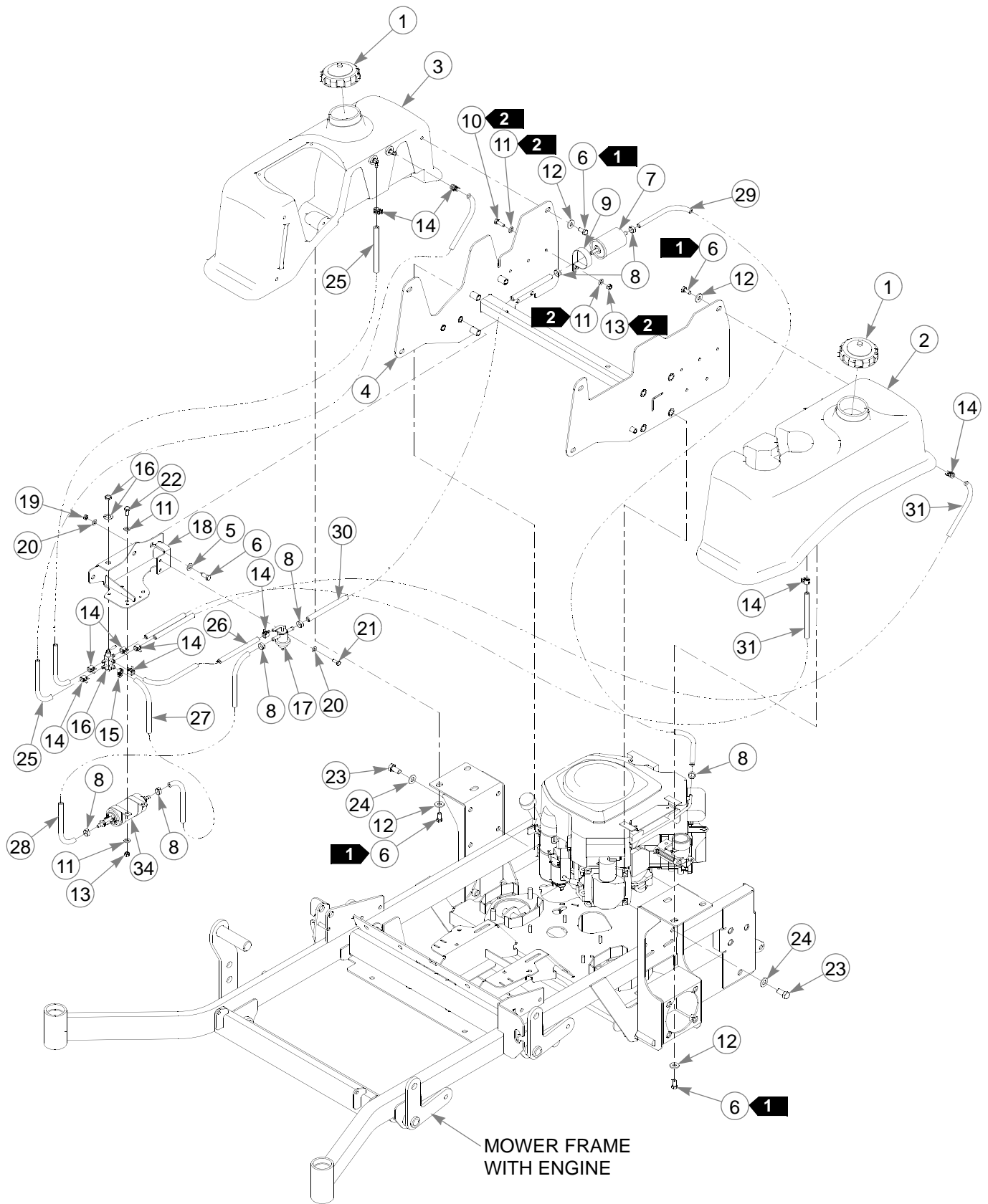
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	779306	779306	2	3.5" FUEL TANK CAP
2	793240	793240	1	LEFT SIDE Z FUEL TANK
3	793232	793232	1	RIGHT SIDE Z FUEL TANK
4	348615	N/A	1	REAR SEAT SUPPORT
5	055822	055822	12	CS .375-16 X .750 HX G5 ZN
6	712919	712919	14	FW .406 X 1.00 X .12 HRD Z
7	000323	000323	8	CLIP
8	068478	068478	1	IN-LINE FUEL FILTER
9	797035	797035	1	1.75" DIA RUBBER COATED CLAMP
10	797084	797084	1	3-WAY NYLON FUEL VALVE
11	036244	036244	2	CS .375-16 X 1.00 HX G5 ZNYC
12	347989	347989	1	FUEL SHUT-OFF BRACKET
13	705954	705954	8	CS .500-13 X 1.25 HX G5 Z
14	767962	767962	8	FW .531 X 1.063 X .090 SAE HD ZN
15	015818	015818	1	FUEL LINE 6.00" LONG
16	015818	015818	1	FUEL LINE 26.75" LONG
17	015818	015818	1	FUEL LINE 45.38" LONG
18	015818	015818	1	FUEL LINE 29.00" LONG
19	045088	045088	1	HOSE CLAMP 1"
	000331	000331	3	BLACK CABLE TIE (NOT SHOWN)

NOTES:

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

PART NO.	DESCRIPTION
601529	SUCTION HOSE ASSY
785295	FUEL GROMMET
792986	1/4 X 1/4 ELBOW FITTING

Fuel System—With EFI



Fuel System—With EFI

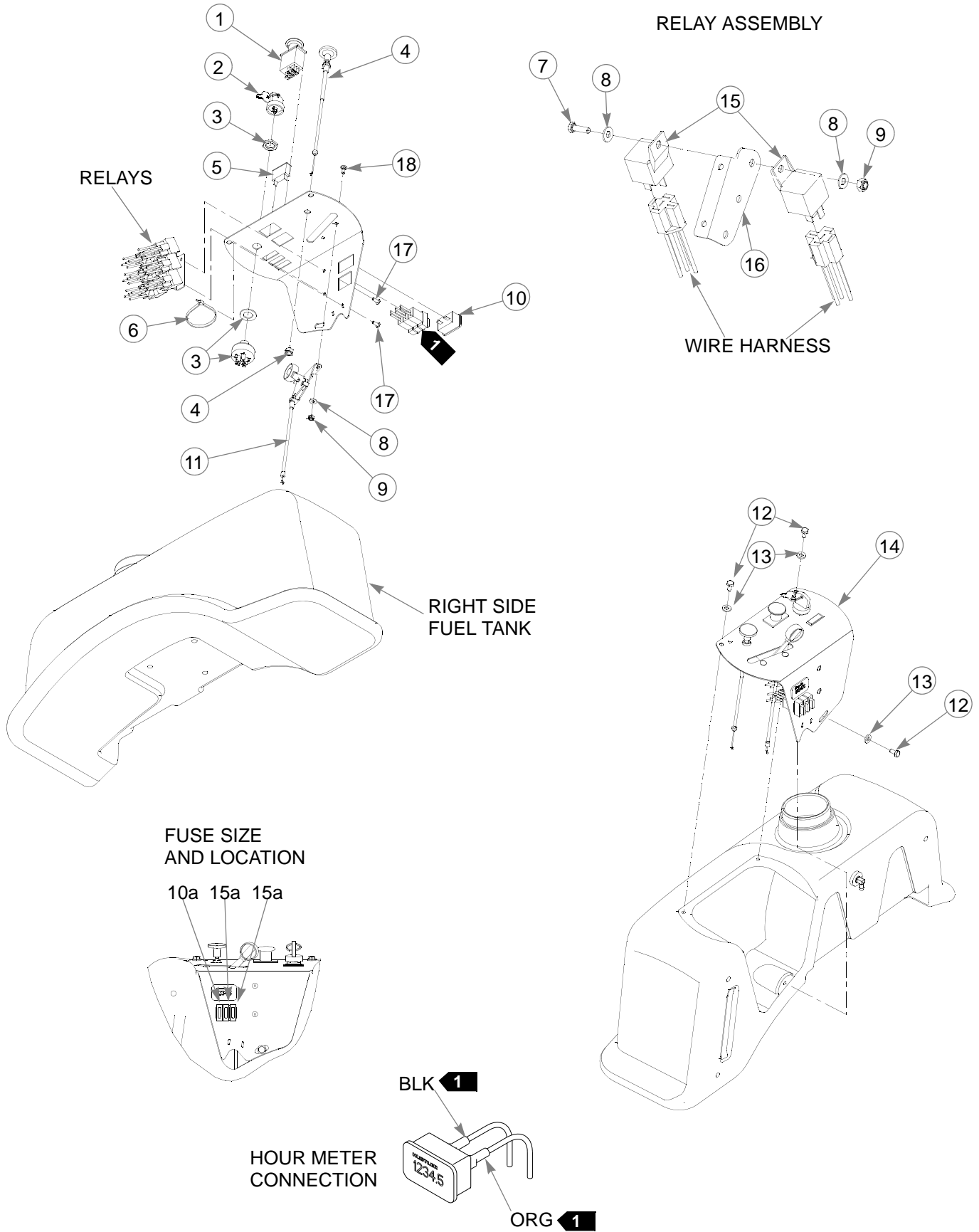
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	784181	784181	2	FUEL TANK CAP
2	794602	794602	1	LEFT SIDE SUPER Z FUEL TANK
3	794594	794594	1	RIGHT SIDE SUPER Z FUEL TANK
4	106732	106732	1	REAR SEAT SUPPORT
5	767954	767954	2	FW .406 X .812 X .060 SAE HD ZN
6	055822	055822	14	CS .375-16 X .750 HX G5 ZN
7	789628	N/A	1	KOHLER EFI FUEL FILTER
8	791418	791418	7	5/16 CRIMP FUEL LINE CLAMP
9	791301	791301	1	CLAMP
10	036236	N/A	1	CS .312-18 X 1.00 HX G5 ZNYC
11	768523	768523	6	FW .343 X .687 X .051/.080HD ZNYC
12	712919	712919	12	FW .406 X 1.00 X .12 HRD ZNYC
13	034272	034272	3	NT .312-18 HX G5 ZN
14	000323	000323	10	CLIP
15	041491	041491	1	HOSE CLAMP
16	791269	791269	1	3-WAY DOUBLE FUEL VALVE
17	789636	N/A	1	KOHLER EFI FUEL REGULATOR
18	398370	398370	1	EFI FUEL MOUNT
19	024927	024927	2	NT .250-20 HX GR.5 ZNYC
20	768515	768515	4	FW .281 X .625 X .051/.080 HD ZNYC
21	055939	055939	2	CS .250-20 X .75 HX G5 ZNYC
22	034280	034280	2	CS .312-18X .750 HX G5
23	705954	705954	8	CS .500-13 X 1.25 HX G5 Z
24	767962	767962	8	FW .531 X 1.063 X .090 SAE HD ZN
25	015818	015818	2	FUEL LINE 36.5"
26	015818	015818	1	FUEL LINE 8.25"
27	791400	791400	1	MULTI FUEL INJECTION FUEL LINE
28	791400	791400	1	MULTI FUEL INJECTION FUEL LINE
29	791400	791400	1	MULTI FUEL INJECTION FUEL LINE
30	791400	791400	1	MULTI FUEL INJECTION FUEL LINE
31	015818	015818	2	FUEL LINE 47.0"
3	601974	N/A	1	KOHLER EFI FUEL PUMP
	000331	000331	4	BLACK CABLE TIE (NOT SHOWN)

NOTES:

1. Torque to 20 ft.-lbs.
2. This hardware is also used to mount 356121 (Super Z Hood). See "Kohler 28 HP EFI Engine Installation" on page 5-22.
3. For mowers with serial numbers prior to 08092140 order 789610.
4. Service parts for fuel tanks (not shown):

PART NO.	DESCRIPTION
601529	SUCTION HOSE ASSY
601532	RETURN HOSE ASSY
785295	FUEL GROMMET
796607	FITTING, 1/4 HOSE BARB

Instrument Panel Assembly—Air Cooled W/Carb.



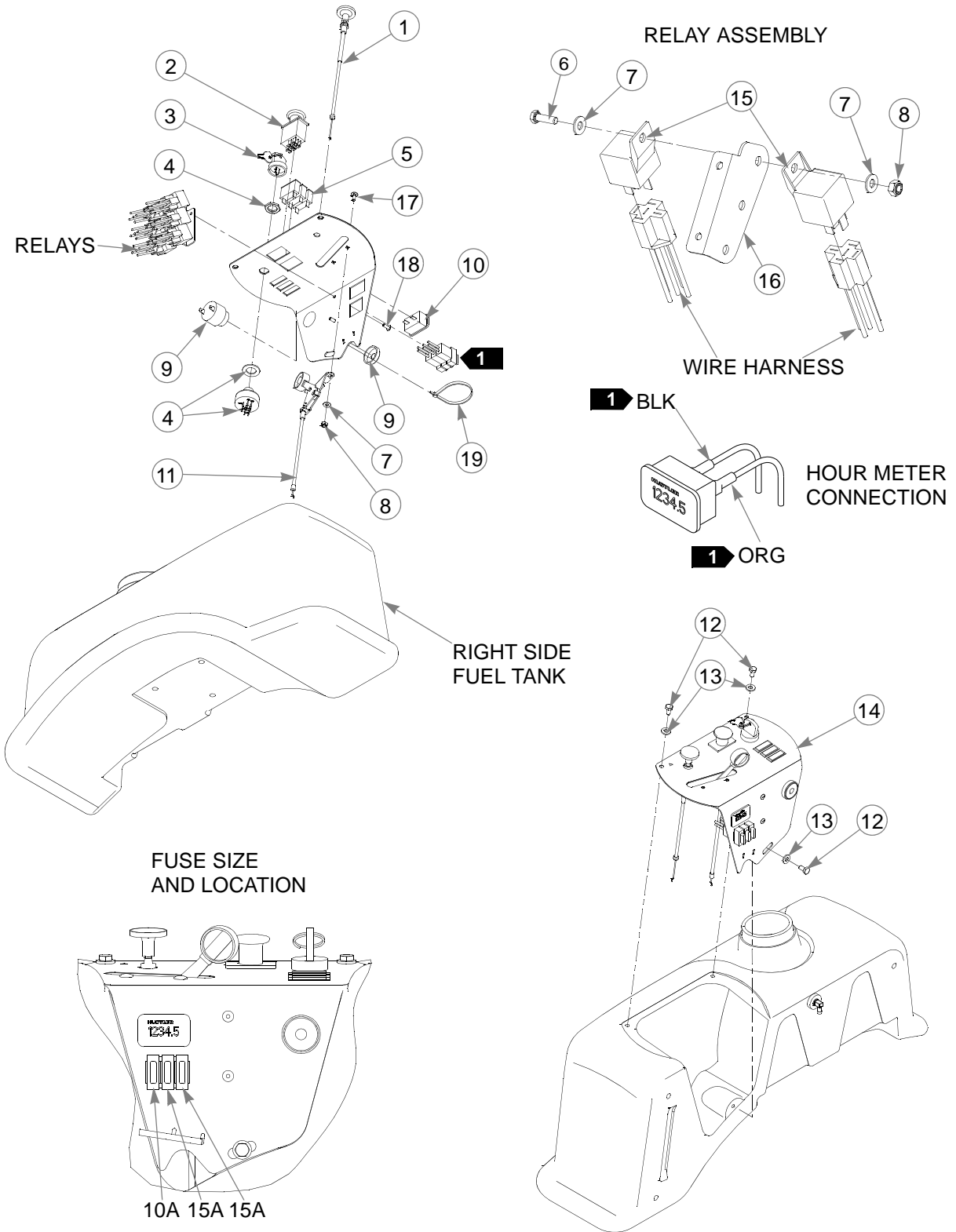
Instrument Panel Assembly–Air Cooled W/Carb

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	776476	776476	1	PTO SWITCH
2	785808	785808	1	KEY SET
3	045898	045898	1	KEY SWITCH
4	785030	785030	1	Z CHOKE CABLE (KAWASAKI)
	786657	786657	1	CHOKE CABLE (HONDA/KOHLER 27 CARB.)
	786657	786657	1	CHOKE CABLE (KOHLER 30 CARB.)
5	712257	712257	1	RED INDICATOR LIGHT
6	000430	000430	2	TIE STRAP
7	714998	714998	1	MS #10-24 X .625 HX ZN
8	704932	704932	4	FW .219 X .500 X .048 ZN
9	059832	059832	2	NT #10-24 HX NL ZN
10	769166	769166	1	HOUR METER
11	778365	778365	1	THROTTLE CABLE (ALL, EXCEPT FOR 30 HP KOHLER AND 31 HP KAWASAKI)
	787788	787788	1	THROTTLE CABLE (30 HP KOHLER, ONLY)
	601675	601675	1	THROTTLE CABLE (31 HP KAWASAKI, ONLY)
12	055947	055947	3	CS .250-20 X .500 HX G5 ZN
13	768515	768515	3	FW .281 X .625 X .051 / .080 HD ZN/YL
14	106633	106633	1	INSTRUMENT PANEL
15	026237	026237	6	RELAY
	762195	N/A	1	DELAY MODULE (NOT SHOWN)
16	107920	107920	1	RELAY BRACKET
17	601089	601089	2	RIVET .188 DIA BLK HD
18	601098	601098	2	CB 10-24 X .500 ZYNC

NOTES:

1. Part of wire harness.

Instrument Panel—Liquid Cooled



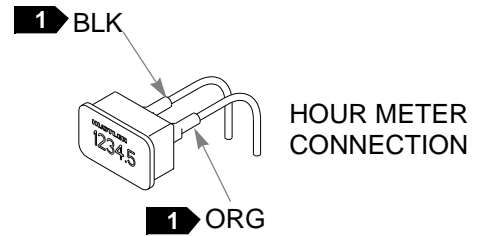
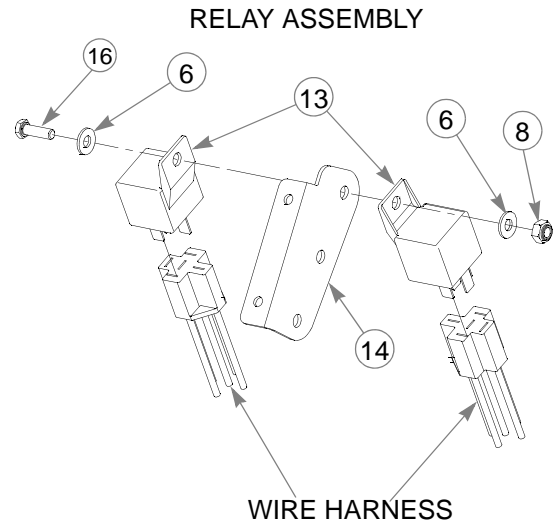
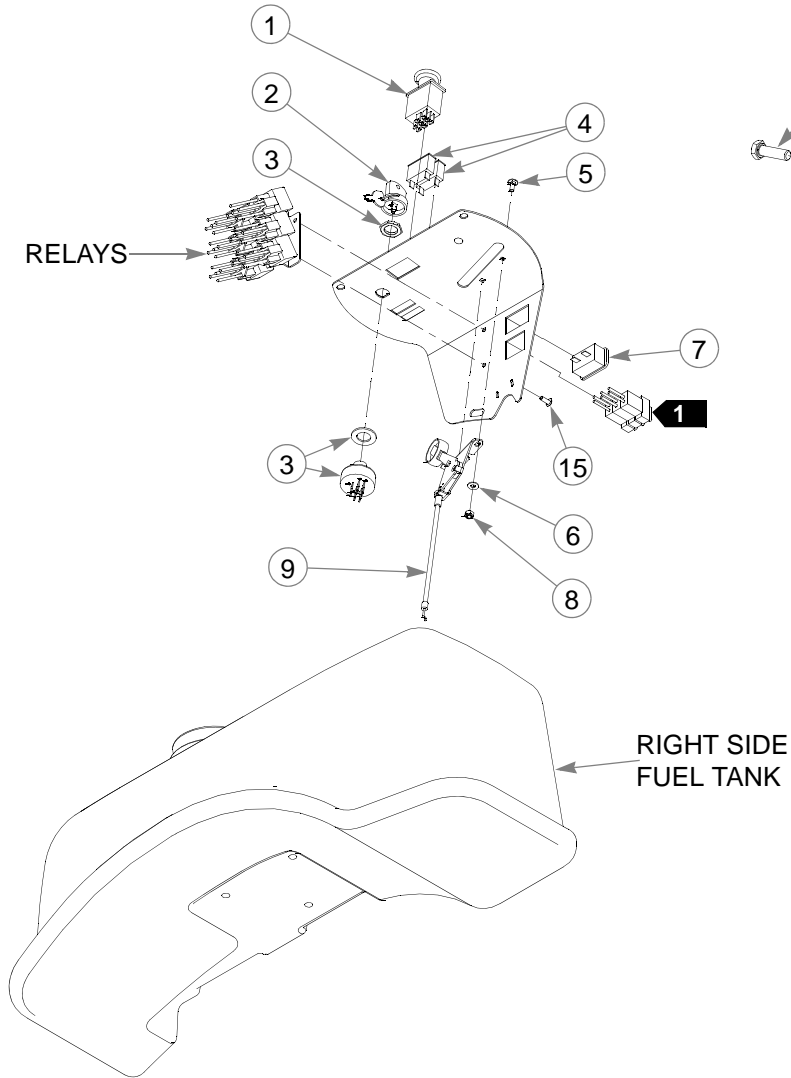
Instrument Panel—Liquid Cooled

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	785030	785030	1	CHOKE CABLE
2	776476	776476	1	PTO SWITCH
3	785808	785808	1	KEY SET
4	045898	045898	1	KEY SWITCH
5	712257	712257	3	RED INDICATOR LIGHT
6	714998	714998	1	MS #10-24 X .625 HX ZN
7	704932	704932	3	FW .219 X .500 X .048 ZN
8	059832	059832	2	NT #10-24 HX NL ZN
9	794347	794347	1	ULTRA LOUD WARBLE ALARM
10	769166	769166	1	HOUR METER
11	787788	787788	1	THROTTLE CABLE
12	055947	055947	3	CS .250-20 X .500 HX G5 ZN
13	768515	768515	3	FW .281 X .625 X .051 / .080 HD ZN/YL
14	106633	106633	1	INSTRUMENT PANEL
15	026237	N/A	6	RELAY
	762195	N/A	1	DELAY MODULE (NOT SHOWN)
16	107920	107920	1	RELAY BRACKET
17	601098	601098	2	CB 10-24 X .500 ZYNC
18	601089	601089	2	RIVET .188 DIA BLK HD
19	000430	000430	3	TIE STRAP (ONE SHOWN)

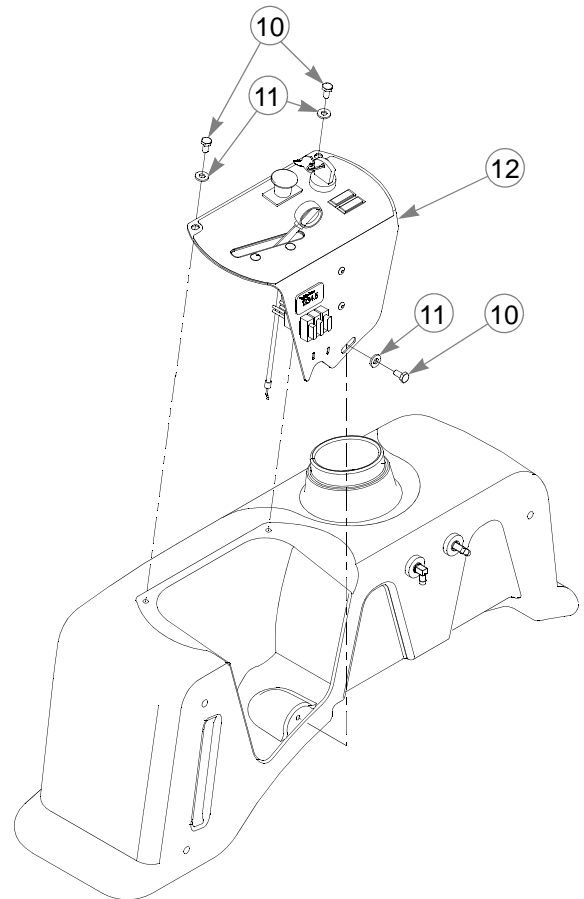
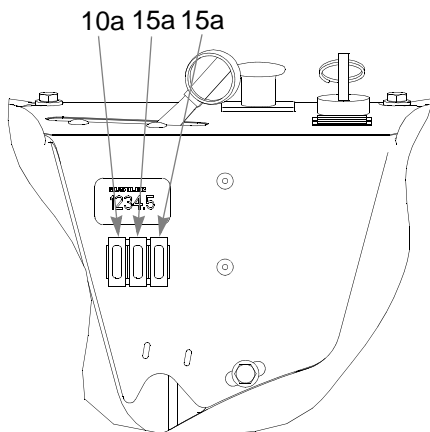
NOTES:

1. Part of 796566 (Wire Harness).

Instrument Panel Assembly—With EFI



FUSE SIZE AND LOCATION



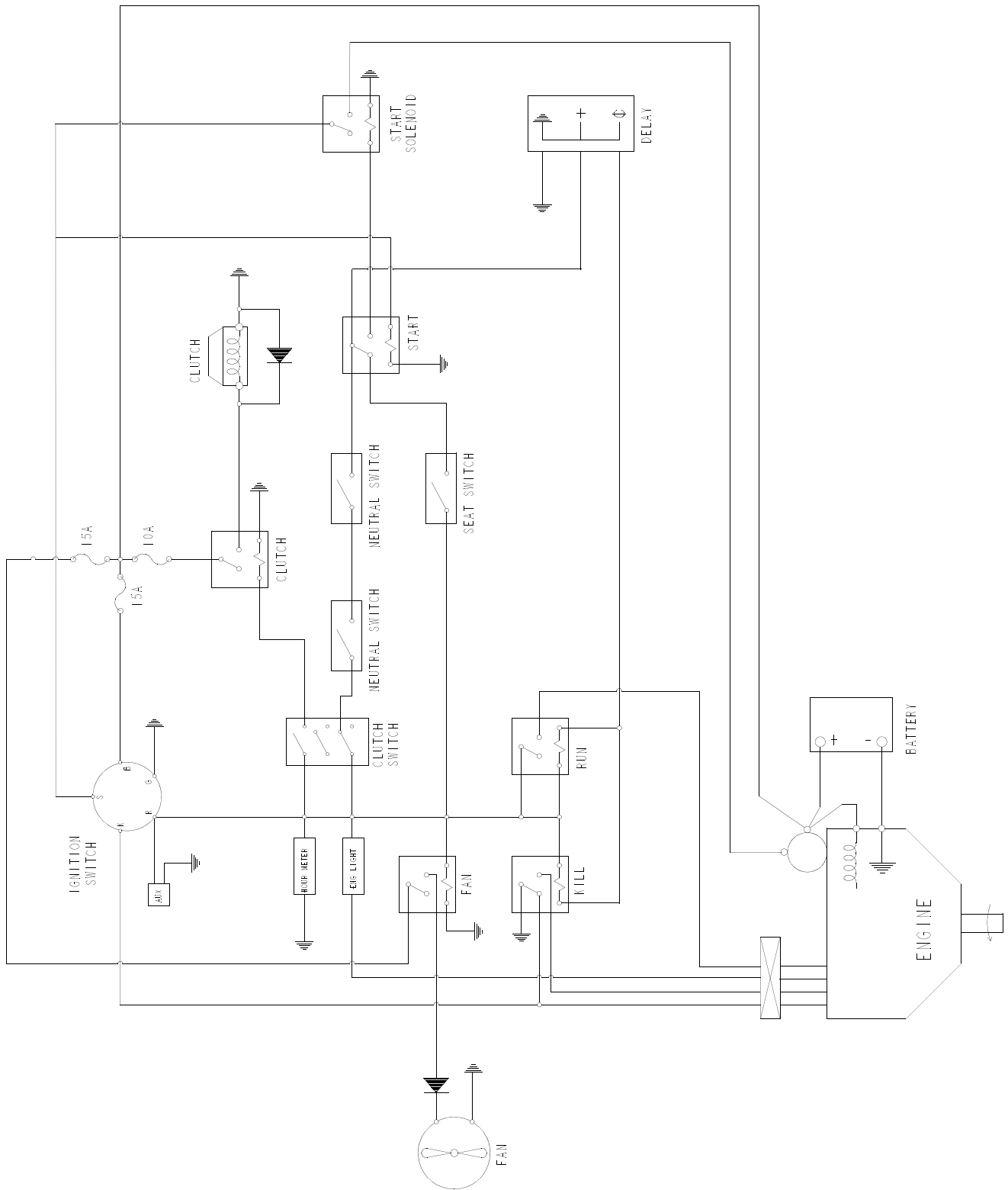
Instrument Panel Assembly—With EFI

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	776476	776476	1	PTO SWITCH
2	785808	785808	1	KEY SET
3	045898	045898	1	KEY SWITCH
4	712257	712257	2	RED INDICATOR LIGHT
5	601098	601098	3	CB 10-24 X .500 ZYNC
6	704932	704932	6	FW .219 X .500 X .048 ZN
7	769166	769166	1	HOUR METER
8	059832	059832	2	NT #10-24 HX NL ZN
9	787788	787788	1	THROTTLE CABLE
10	055947	055947	3	CS .250-20 X .500 HX G5 ZN
11	768515	768515	3	FW .281 X .625 X .051 / .080 HD ZN/YL
12	106633	106633	1	INSTRUMENT PANEL
13	026237	N/A	6	RELAY
	762195	N/A	1	DELAY MODULE (NOT SHOWN)
14	107920	107920	1	RELAY BRACKET
15	601089	601089	2	RIVET .188 DIA BLK HD
16	714998	714998	2	MS #10-24 X .625 HX ZN
	000430	000430	3	TIE STRAP (NOT SHOWN)

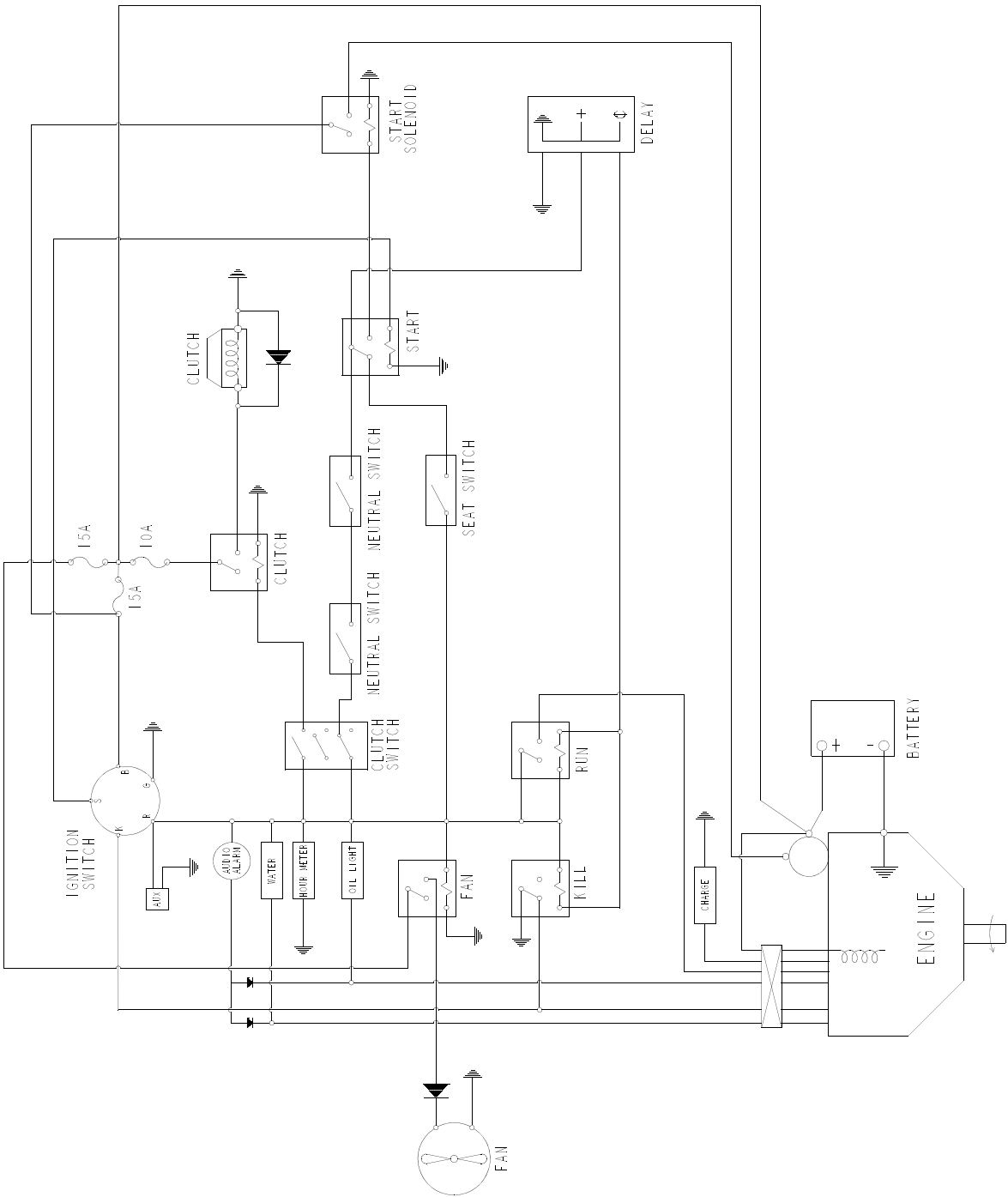
NOTES:

1. Part of 799346 (Wire Harness).

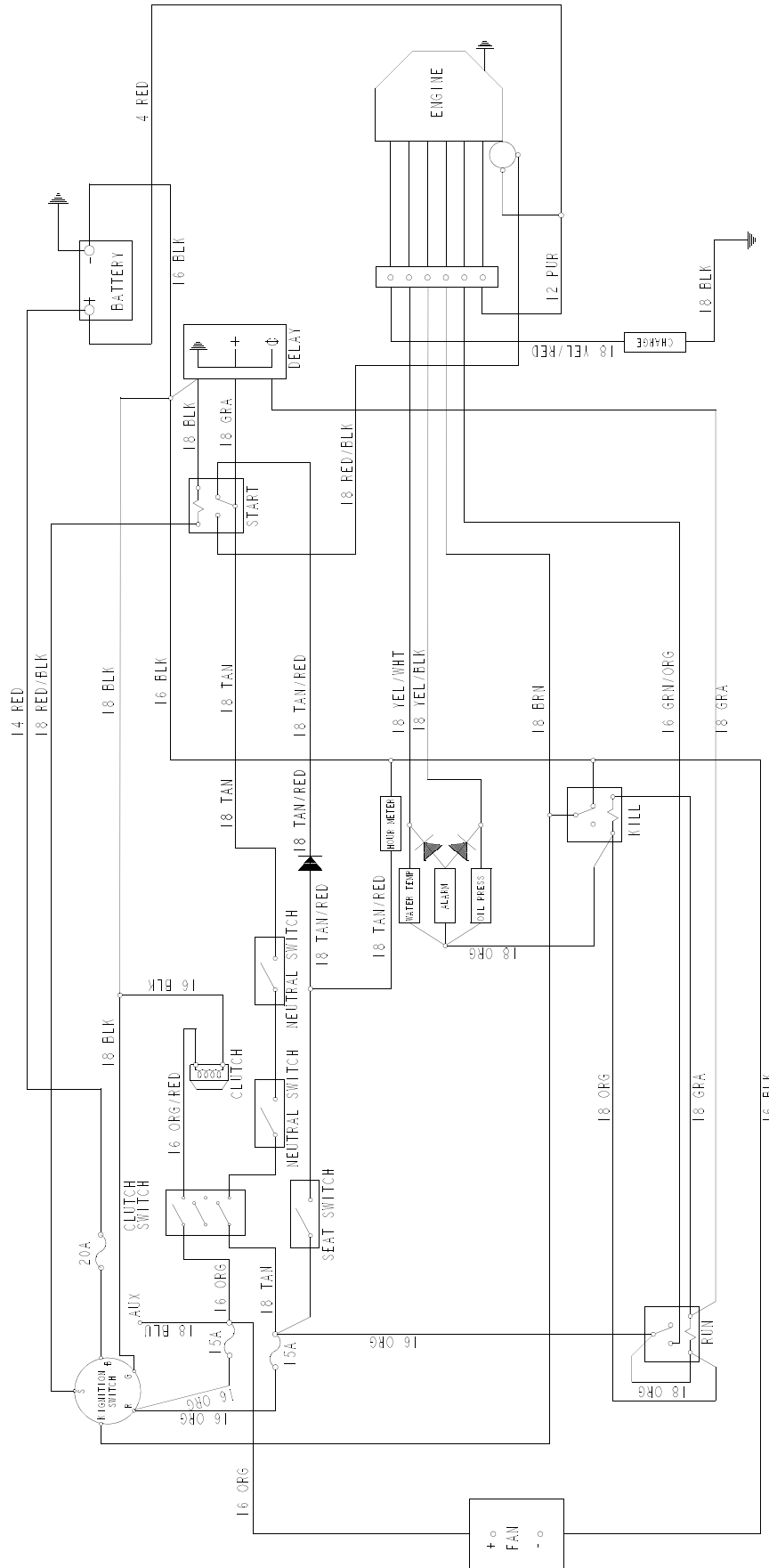
Electrical Schematic—Common Air Cooled (799320)



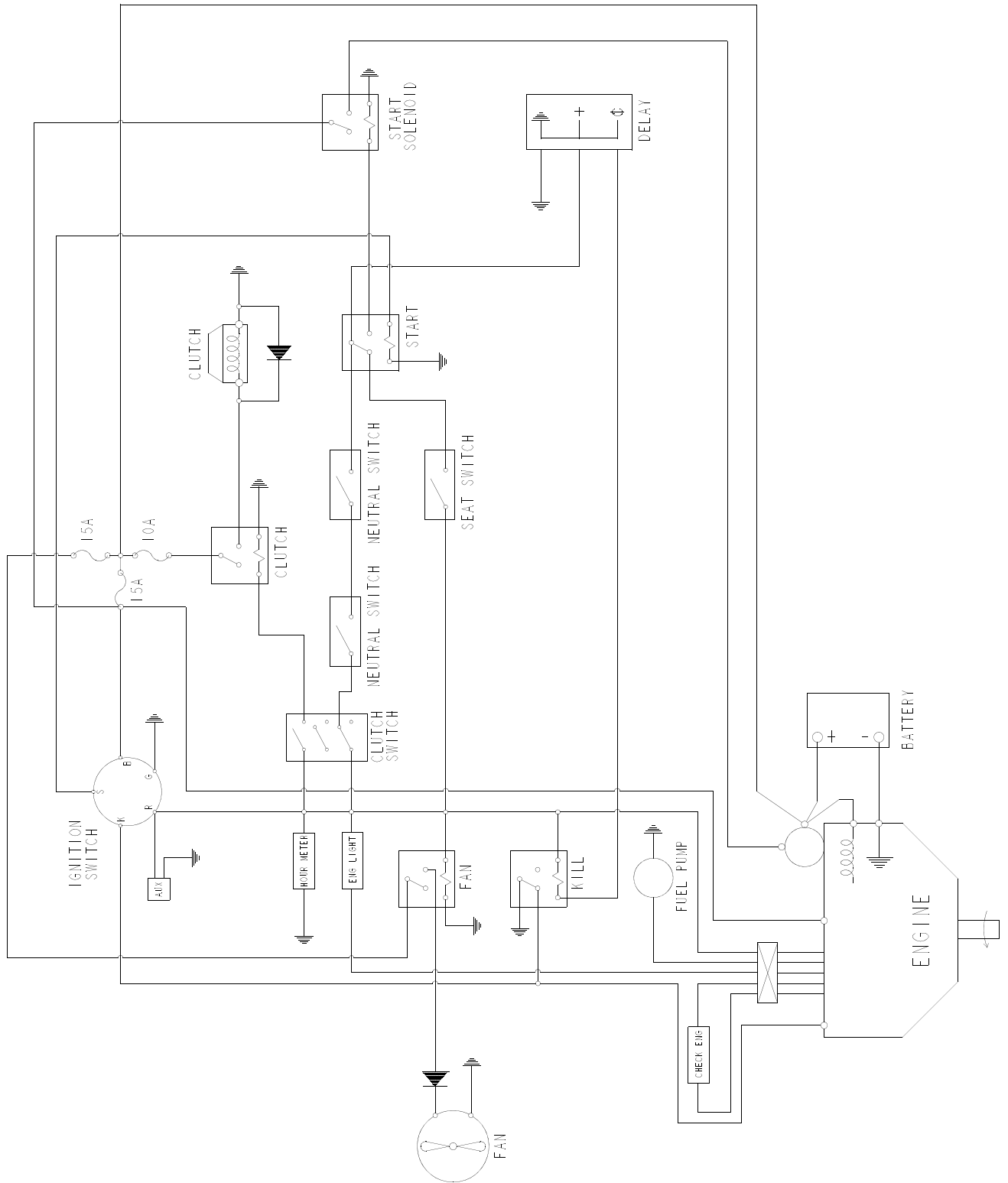
Elec. Schematic—Kaw LC (799338) S/N Higher Than 06050332



Elec. Schematic—Kaw LC (796599) S/N Prior To 06050332



Electrical Schematic—Kohler EFI (799346)

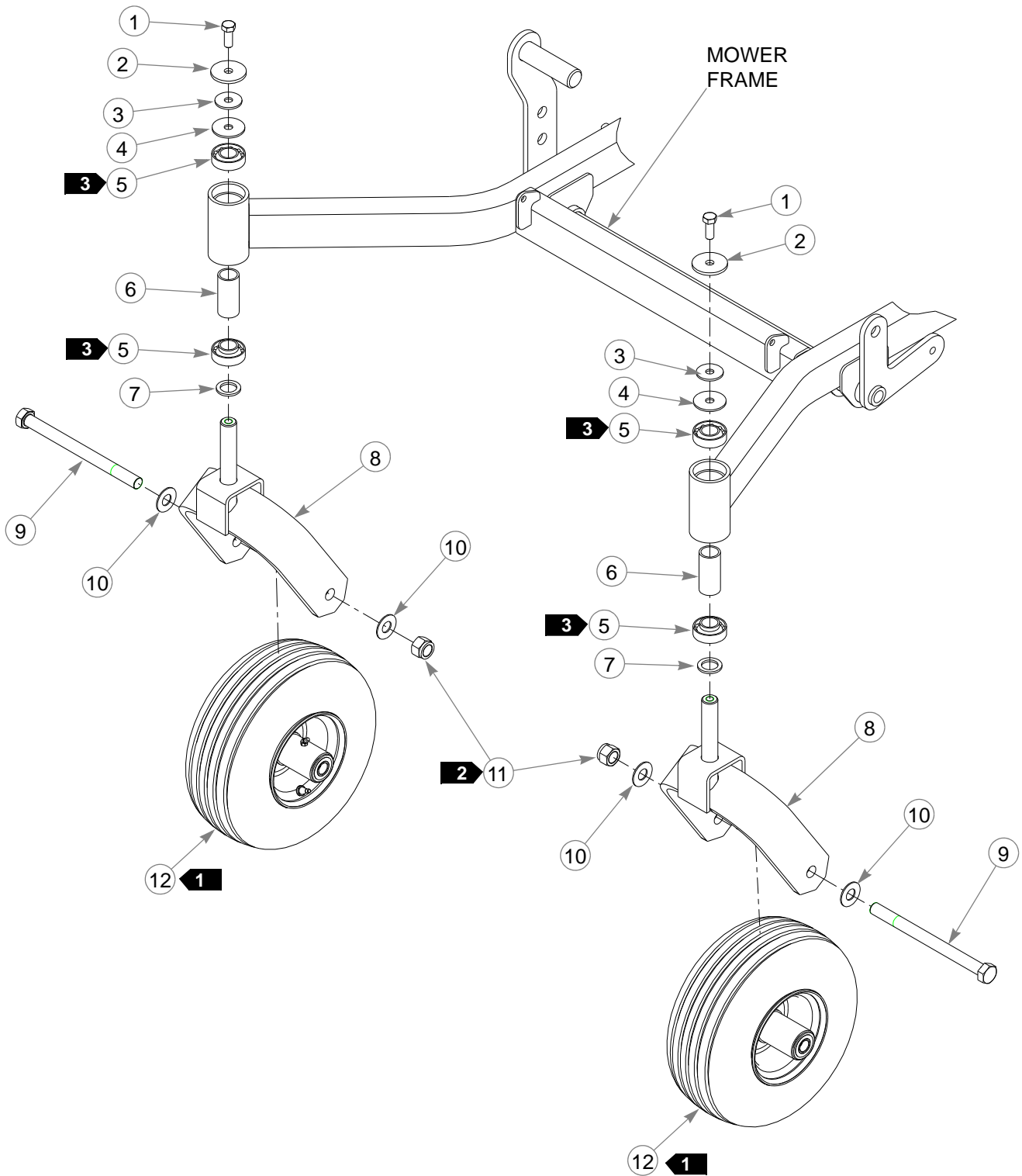




Section 6

Front Wheel Assembly.	6-2
Front Wheel Breakdown—747782.	6-4
Optional Semi-Pneumatic Tire/Wheel—789537	6-5
Drive Wheel Assembly.	6-6
Anti-Rollover Wheel Assembly	6-7

Front Wheel Assembly



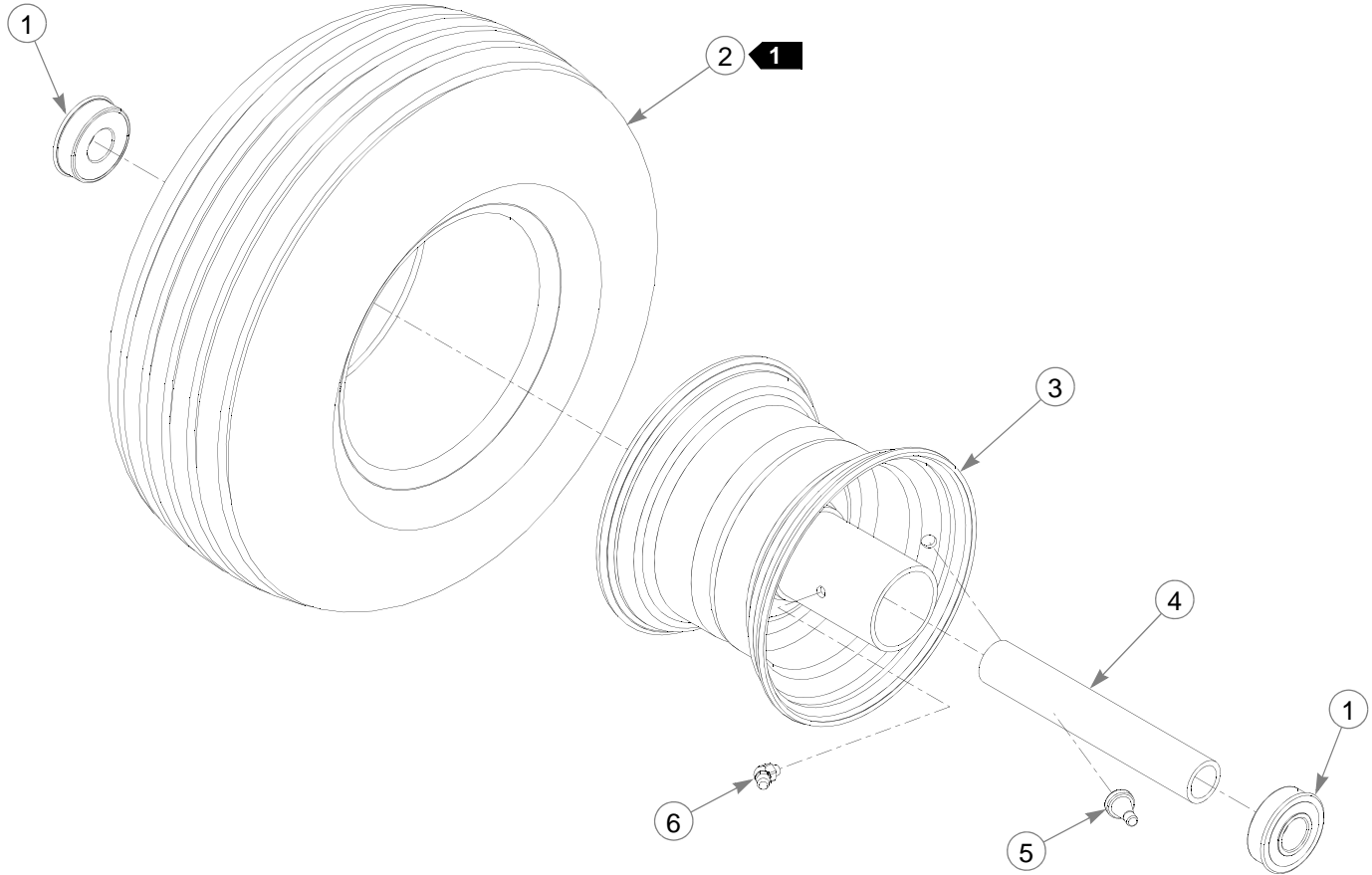
Front Wheel Assembly

INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	705954	705954	2	CS .500-13 X 1.25 HX G5 ZN
2	344267	344267	2	FW .510 X 2.15 X .187 SPL ZN
3	798603	798603	2	FW .515 X 1.65 X .125 HD ZY
4	263517	263517	2	BEARING DISC
5	784223	784223	4	BEARING W/O COLLAR
6	387035	387035	2	SPACER, 1.07 X 1.312 X 2.793
7	045765	045765	2	FW 1.030 X 1.500 X.134 ZN
8	349266	349266	2	FORK
9	041475	041475	2	CS .750 -10 X 9.50 HX ZN
10	025296	025296	4	FW .760 X 1.625 X .08 ZN
11	061101	061101	2	NT .750 -10 HX NL ZN
12	747782	747782	2	WHEEL & TIRE ASSY

NOTES:

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

Front Wheel Breakdown—747782

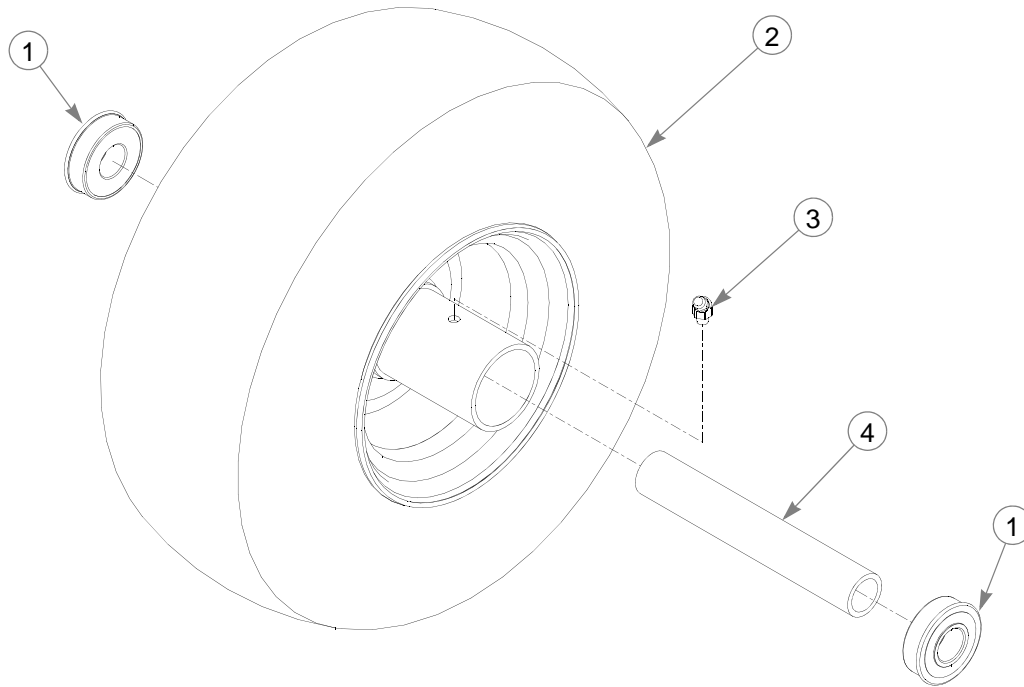


ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	039677	N/A	2	WHEEL BEARING
2	747741	N/A	1	13 X 6.50 TIRE
3	747832	N/A	1	6 X 4.5 WHEEL
4	782771	N/A	1	BEARING SPACER
5	019521	N/A	1	TIRE VALVE
6	015511	N/A	1	GREASE FITTING 45 DEG 1/4

NOTES:

1. Inflate tire to 8-12 psi.

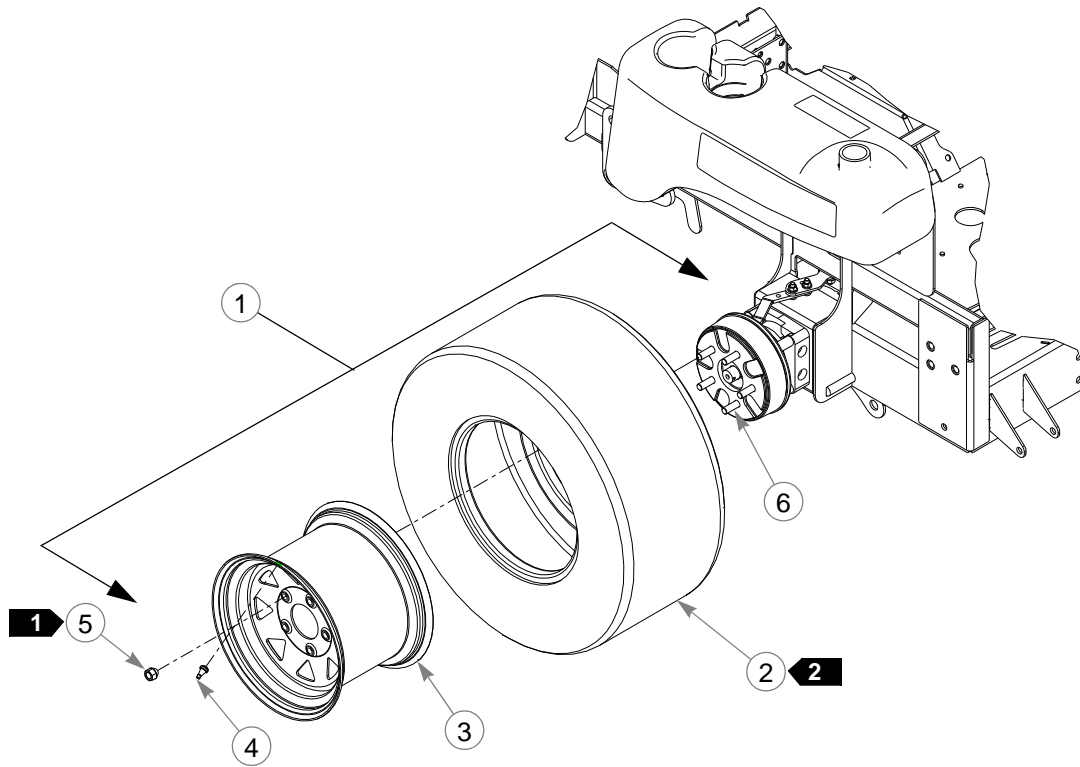
Optional Semi-Pneumatic Tire/Wheel—789537



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

NOTES:

Drive Wheel Assembly



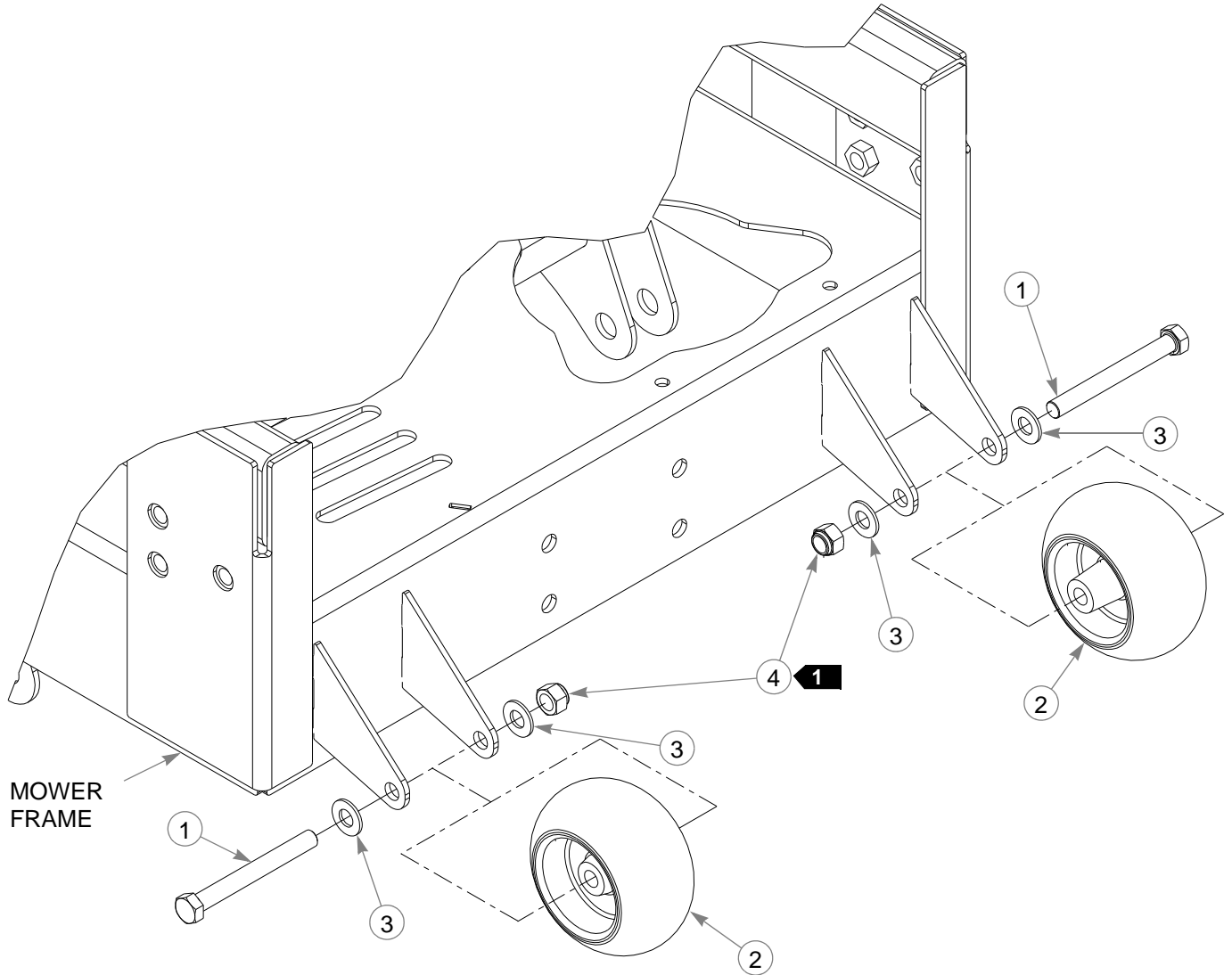
INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	784058	784058	2	WHEEL & TIRE ASSY FOR 66" SD, 72" SD, 60" RD & 72" RD (QTY PER MOWER)
2	781245	N/A		TIRE, 24 X12 X 12
3	784066	N/A		WHEEL ASSY 12 X 8.50
4	019521	N/A		TIRE VALVE
5	061077	061077	5	WHEEL NUT (QTY PER WHEEL)
6	601085	601085	10	WHEEL LUG STUD 1/2-20

1	781237	781237	2	WHEEL & TIRE ASSY FOR 60" & 54" SD (QTY PER MOWER)
2	781245	N/A		TIRE, 24 X12 X 12
3	781252	N/A	2	WHEEL ASSEMBLY 12 X 8.50
4	019521	N/A	2	TIRE VALVE
5	061077	061077	5	WHEEL NUT (QTY PER WHEEL)
6	601085	601085	10	WHEEL LUG STUD 1/2-20

NOTES:

1. Torque to 65-75 ft. lbs.
2. Inflate tire to 8-12 psi.

Anti-Rollover Wheel Assembly



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

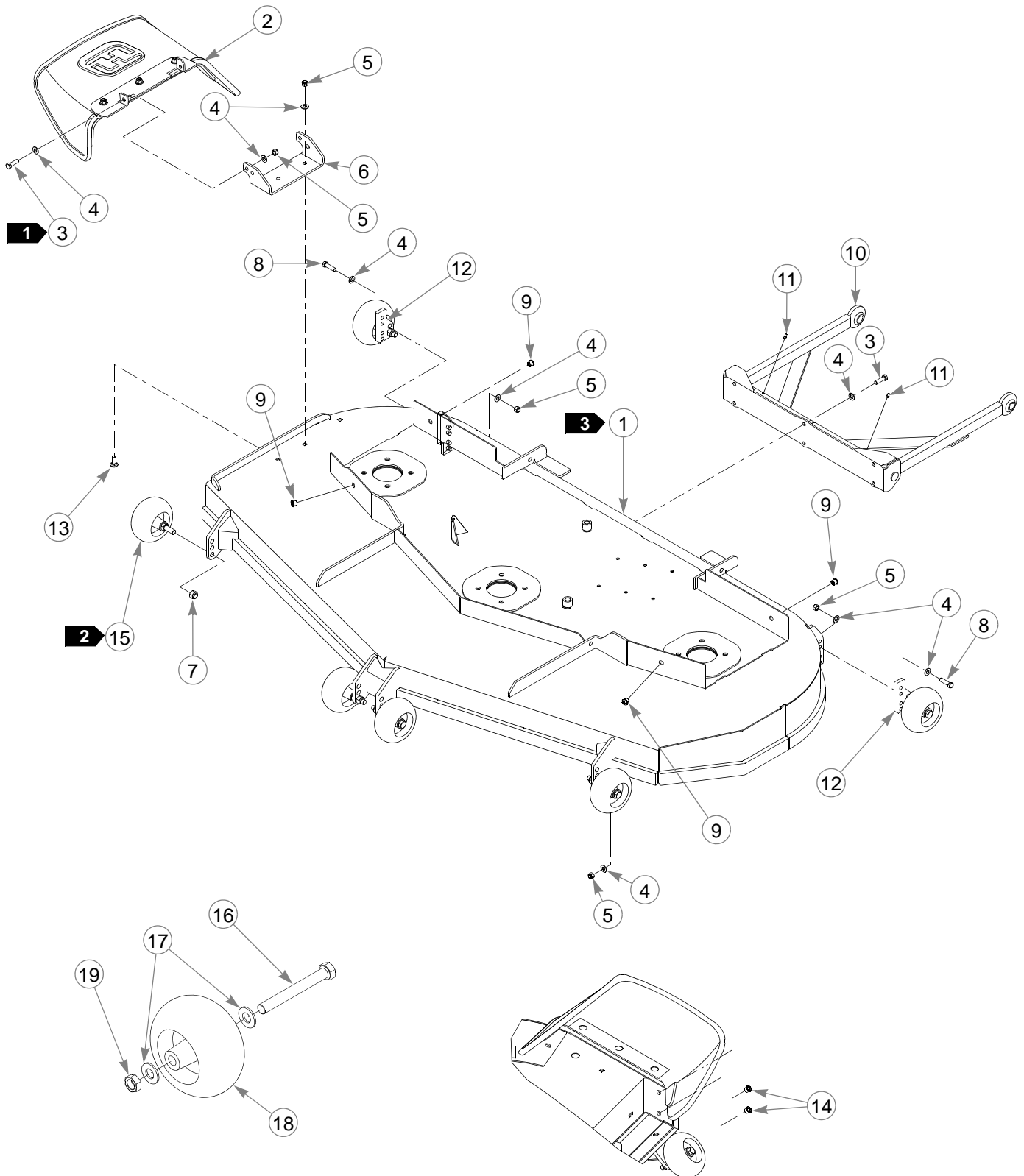
NOTES:

1. Do not torque, wheel must turn freely.

Section 7

72" Side Discharge XR7 Deck Assembly	7-2
72" Side Discharge Deck Pulley Assembly (XR7)	7-4
66" Side Discharge Deck Pulley Assembly (XR7)	7-8
60" Side Discharge Deck Assembly (XR7)	7-10
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72" Side Discharge XR7 Deck Assembly



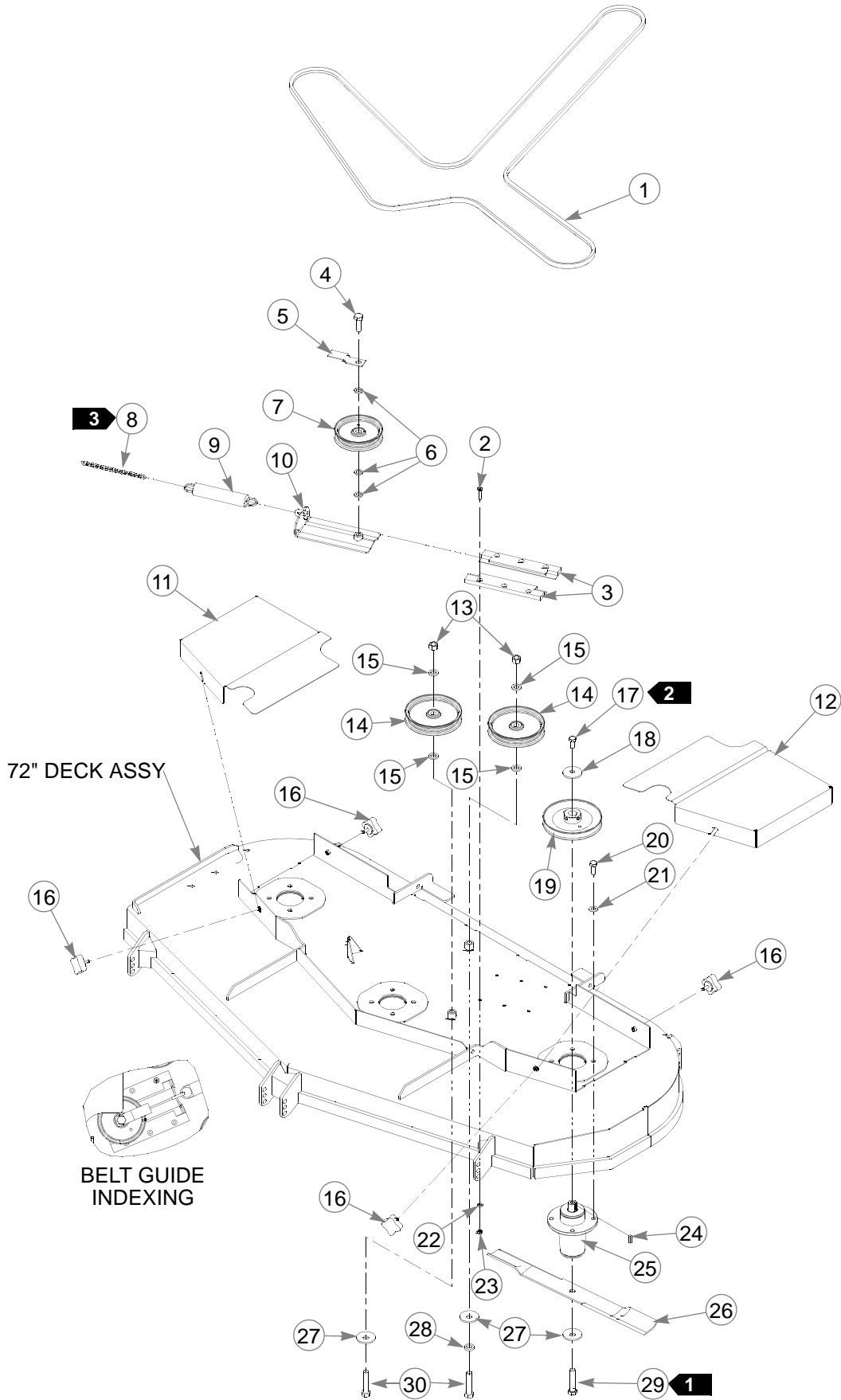
72" Side Discharge XR7 Deck Assembly

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	548453	108649	1	72" DECK WA CRATED
2	798694	798694	1	RUBBER CHUTE ASSEMBLY
3	052860	052860	8	CS .375 - 19 X 1.250 HX G5 ZN
4	767954	767954	26	FW .406 X .812 .060 SAE HD ZN
5	086660	086660	14	NT .375 - 16 HXZY NL
6	103010	103010	1	DISCHARGE CHUTE MOUNT BRACKET
7	781567	781567	6	NT .50-13 HX LK NY
8	005116	005116	4	CS .375-16 X 1.375 HX G5
9	N/A	808485	4	5/16-18 THREAD RIVET NUT
10	314104	314104	1	PUSHER
11	015495	015495	2	STRAIGHT GREASE FITTING
12	103184	103184	2	REAR ANTI-SCALP BRACKET
13	025395	025395	2	CB .375-16 X 1.00 STD CD
14	N/A	808493	2	3/8 -16 THREAD RIVET NUT
15	788166	788166	6	ANTI SCALP WHEEL ASSY
16	781708	N/A	6	CS .500 - 13 X 4.25 HX G5 ZN
17	767962	N/A	12	FW .531 X 1.063 X .090 SAE HD ZN
18	031997	N/A	6	ANTI-SCALP WHEEL
19	053199	N/A	6	NT .500-13 HX JAM ZN

NOTES:

1. Do not torque, Item 2 (798694 Discharge Chute) must pivot freely.
2. Includes items 16–19.
3. Service part deck includes decals (see "72", 66" & 60" Side Discharge Deck Decals(XR7)" on page 9-4 for listing of decals).

72" Side Discharge Deck Pulley Assembly (XR7)



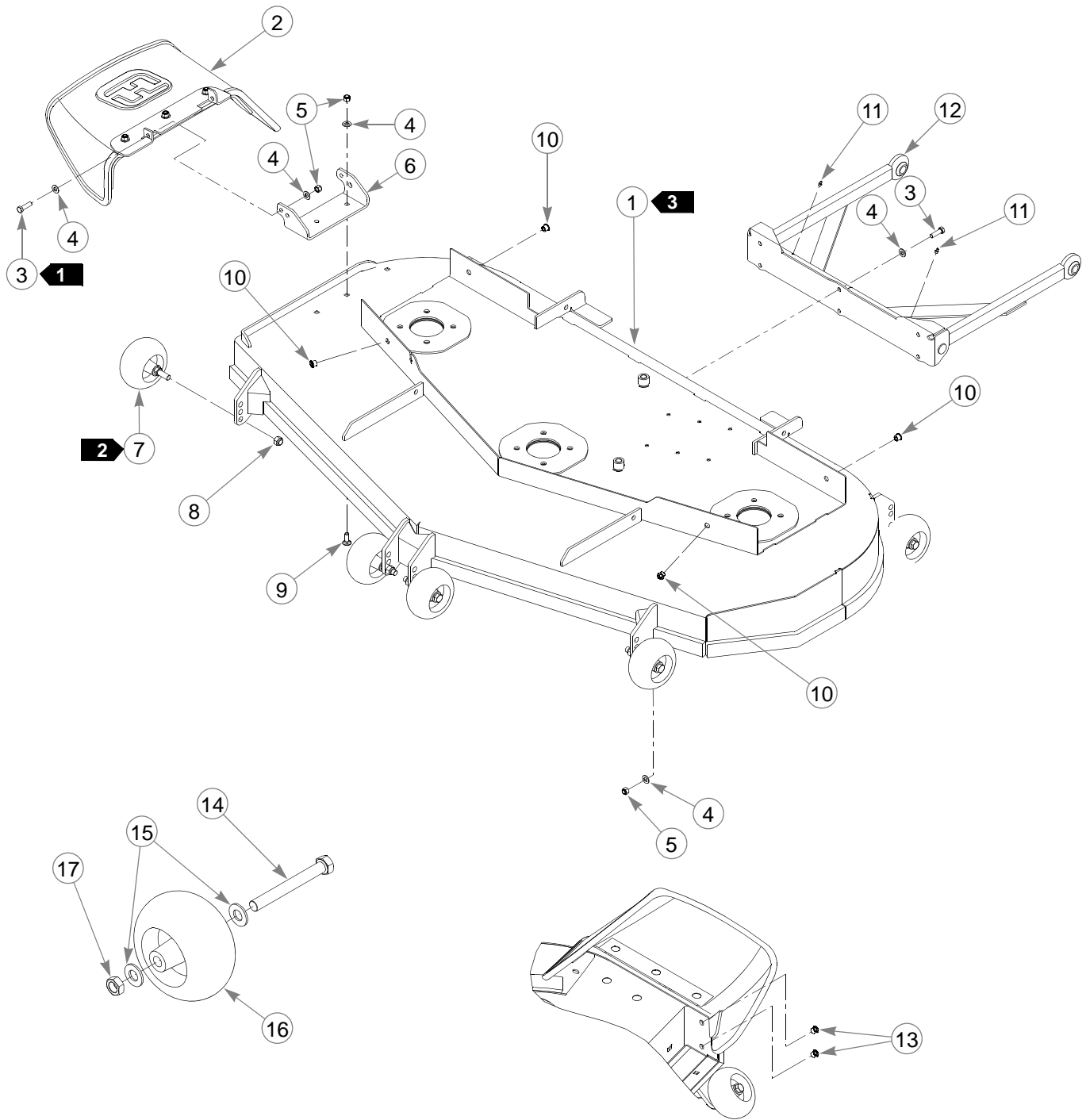
72" Side Discharge Deck Pulley Assembly (XR7)

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	784207	784207	1	B-SECTION BELT
2	797910	797910	6	CS .312 - 18 X 1.50 FLT SH ZNYC
3	601434	601434	2	UHMW IDLER SLIDE
4	025007	025007	1	CS .625 - 11 X 1.75 HX G5 ZNYC
5	347443	347443	1	DECK BELT IDLER GUIDE
6	028118	028118	3	FW .62 X 1.00 X .134 ZN
7	781856	781856	1	5.00" IDLER PULLEY
8	259812	059931	1	CHAIN DECK LIFT SPRING (13 LINKS)
9	781302	781302	1	IDLER SPRING
10	350884	350884	1	DECK IDLER
11	107620	107620	1	RS PULLEY COVER 72" XR7
12	107621	107621	1	LS PULLEY COVER 72" XR7
13	016972	016972	2	NT .625 - 11 HX G5 ZNYC
14	781385	781385	2	6.00" IDLER PULLEY
15	797449	797449	4	FW .650 X 1.125 X .18 ZNYCG5
16	792002	792002	4	5/16 - 18 X 3/4" MALE KNOB
17	016527	016527	3	CS .500 -13 X 1.00 HX G5 ZN
18	752386	752386	3	CW .515 X 2.25 X .204 ZN
19	538850	538850	3	DRIVE PULLEY DB-112
20	705954	705954	12	CS .500-13 X 1.25 HX G5 ZNYC
21	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
22	768523	768523	6	FW .343 X .687 X .051/.080 HD ZN
23	058776	058776	6	NT .312 -18 HXZY NL
24	212472	212472	3	KEY 1/4 SQ X 1.00 LONG
5	25	601630	3	SPINDLE HOUSING ASSEMBLY
4	26	796235X	N/A	3 SPINDLE HOUSING ASSEMBLY
	27	798702	798702	3 BLADE, F24.50" -H-F-CW
	28	782474	782474	5 CW .631 2.250 X .187 PNT
	29	769257	769257	1 FW .656 X 1.250 X .250 ZNYC
5	30	601983	601983	3 CS .625-11 X 2.25 HXG5ZY
4		029934	N/A	3 CS .625 -11 X 3.00 HX G5 ZNYC
		783738	783738	2 CS .625-11 X 3.00 FULL HX G5 ZN

NOTES:

1. Torque to 118 ft. lbs.
2. Torque to 67-75 ft. lbs.
3. See "72", 66", & 54" Side Discharge Belt Routing and Tensioning" on page 8-4 for belt tensioning.
4. Used on mowers with serial numbers prior to 09110001. See "Spindle Assembly—796235" on page 7-42 for breakdown.
5. Used on mowers with serial numbers higher than 09110001.
6. Item 3 (601434) replaces idler slide components 600171, 600189 and 786335 found on mowers with serial numbers prior to 08010000.

66" Side Discharge Deck Assembly



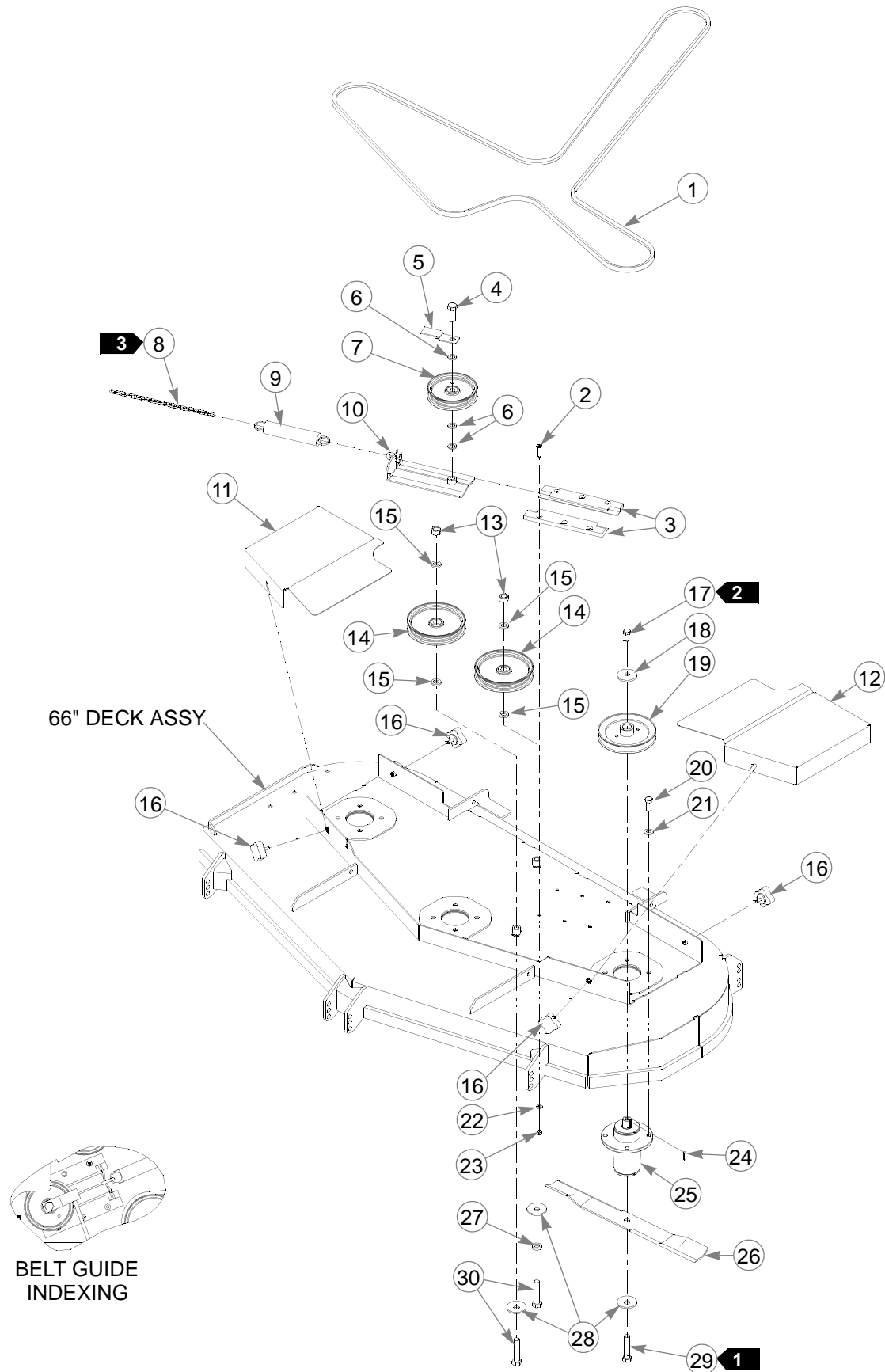
66" Side Discharge XR7 Deck Assembly

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	548446	108536	1	66" DECK W/A CRATED
2	798694	798694	1	RUBBER CHUTE ASSEMBLY
3	052860	052860	8	CS .375-16 X 1.250 HX G5 ZN
4	767954	767954	18	FW .406 X .812 .060 SAE HD ZN
5	086660	086660	10	NT .375-16 HXZY NL
6	103010	103010	1	DISCHARGE CHUTE MOUNT BRACKET
7	788166	788166	6	ANTI SCALP WHEEL ASSY
8	781567	781567	6	NT .50-13 HX LK NY
9	025395	025395	2	CB .375-16 X 1.00 STD CD
10	808485	808485	4	5/16-18 THREAD RIVET NUT
11	015495	015495	2	STRAIGHT GREASE FITTING
12	314104	314104	1	PUSHER
13	808493	808493	2	3/8-16 THREAD RIVET NUT
14	781708	N/A	6	CS .500-13 X 4.25 HX G5 ZN
15	767962	N/A	12	FW .531 X 1.063 X .090 SAE HD ZN
16	031997	N/A	6	ANTI-SCALP WHEEL
17	053199	N/A	6	NT .500-13 HX JAM ZN

NOTES:

1. Do not torque, Item 2 (798694 Discharge Chute) must pivot freely.
2. Includes items 14–17.
3. Service part deck includes decals (see "72", 66" & 60" Side Discharge Deck Decals(XR7)" on page 9-4 for listing of decals) and item 2 (Discharge Chute).

66" Side Discharge Deck Pulley Assembly (XR7)



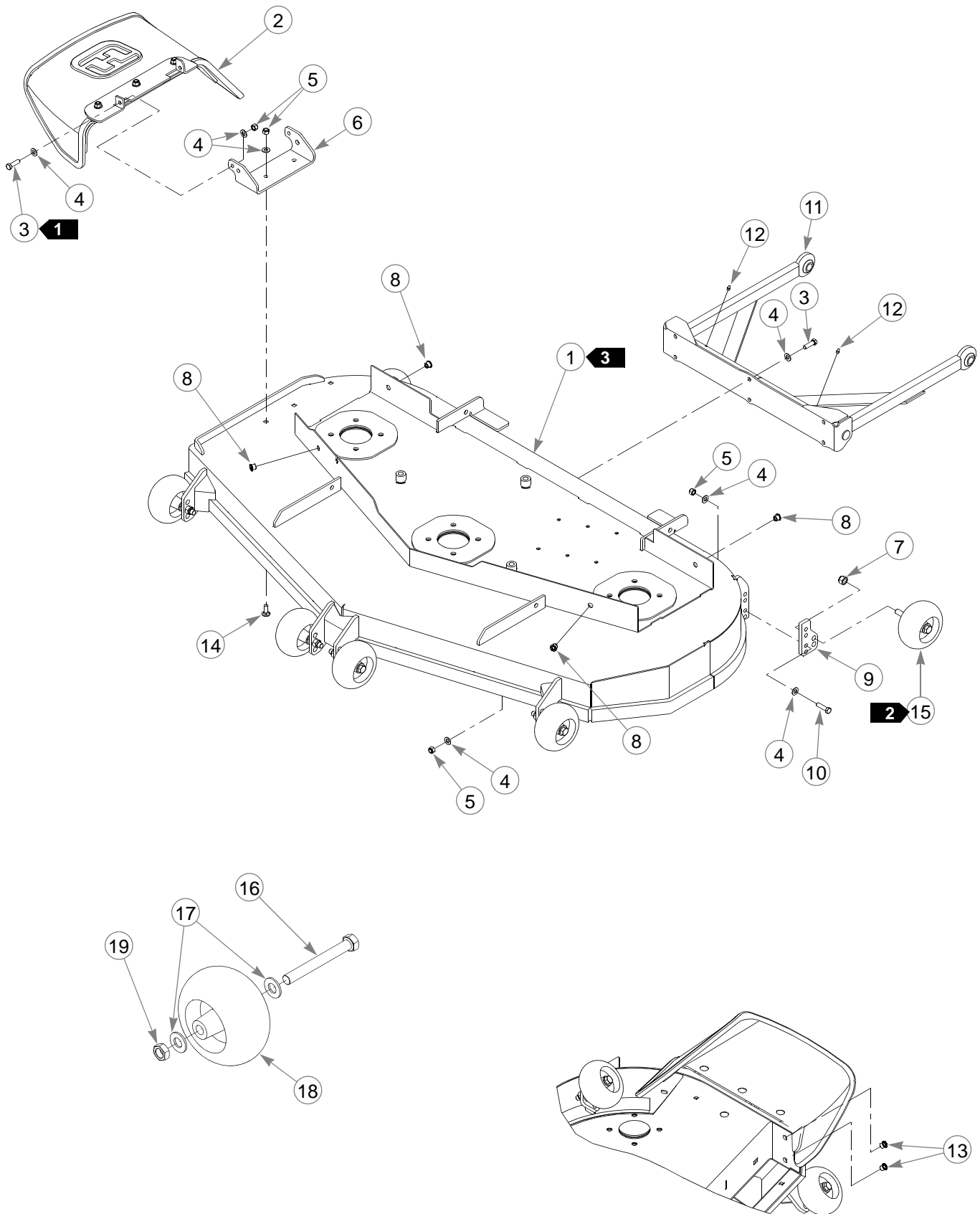
66" Side Discharge Deck Pulley Assembly (XR7)

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	797936	797936	1	B-SECTION BELT
2	797910	797910	6	CS .312-18 X 1.50 FLT SH ZNYC
3	601434	601434	2	UHMW IDLER SLIDE
4	025007	025007	1	CS .625-11 X 1.75 HX G5 ZNYC
5	347443	347443	1	DECK BELT IDLER GUIDE
6	028118	028118	3	FW .62 X 1.00X.134 ZN
7	781856	781856	1	5.00" IDLER PULLEY
8	373191	059931	1	SIDE MOUNT CHAIN (21 LINKS)
9	781302	781302	1	IDLER SPRING
10	350884	350884	1	DECK IDLER
11	103721	103721	1	RS 66" XR7 PULLEY COVER
12	103739	103739	1	LS 66" XR7 PULLEY COVER
13	016972	016972	2	NT .625 -11 HX G5 ZNYC
14	781385	781385	2	6.00" IDLER PULLEY,
15	797449	797449	4	FW .650X1.125X.18 ZNYC G5
16	792002	792002	4	5/16-18 X 3/4" MALE KNOB
17	016527	016527	3	CS .500-13 X 1.00 HX G5 ZN
18	752386	752386	3	CW .515X 2.25X .204 ZN
19	798975	798975	3	B-SEC 6.32 EOD PULLEY
20	705954	705954	12	CS .500-13 X 1.25 HX G5 ZNYC
21	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
22	768523	768523	6	FW .343 X .687 X .051/.080 HD ZN
23	058776	058776	6	NT .312-18 HXZY NL
24	212472	212472	3	KEY 1/4 SQ X 1.00 LONG
5	25	601630	3	SPINDLE HOUSING ASSEMBLY
4		796235X	3	SPINDLE HOUSING ASSEMBLY
	26	798496	3	BLADE, F22.50"-H-F-CW
	27	769257	1	FW .656 X 1.250X.250 ZNYC
	28	782474	5	CW .631 2.250 X .187 PNT
5	29	601983	3	CS .625-11 X 2.25 HXG5ZY
4		029934	3	CS .625 -11 X 3.00 HX G5 ZNYC
	30	783738	2	CS .625-11 X 3.00 FULL HX G5 ZN

NOTES:

1. Torque to 118 ft. lbs.
2. Torque to 67-75 ft. lbs.
3. See "72", 66", & 54" Side Discharge Belt Routing and Tensioning" on page 8-4 for belt tensioning.
4. Used on mowers with serial numbers prior to 09110001. See "Spindle Assembly—796235" on page 7-42 for breakdown.
5. Used on mowers with serial numbers higher than 09110001.
6. Item 3 (601434) replaces idler slide components 600171, 600189 and 786335 found on mowers with serial numbers prior to 08010000.

60" Side Discharge Deck Assembly (XR7)



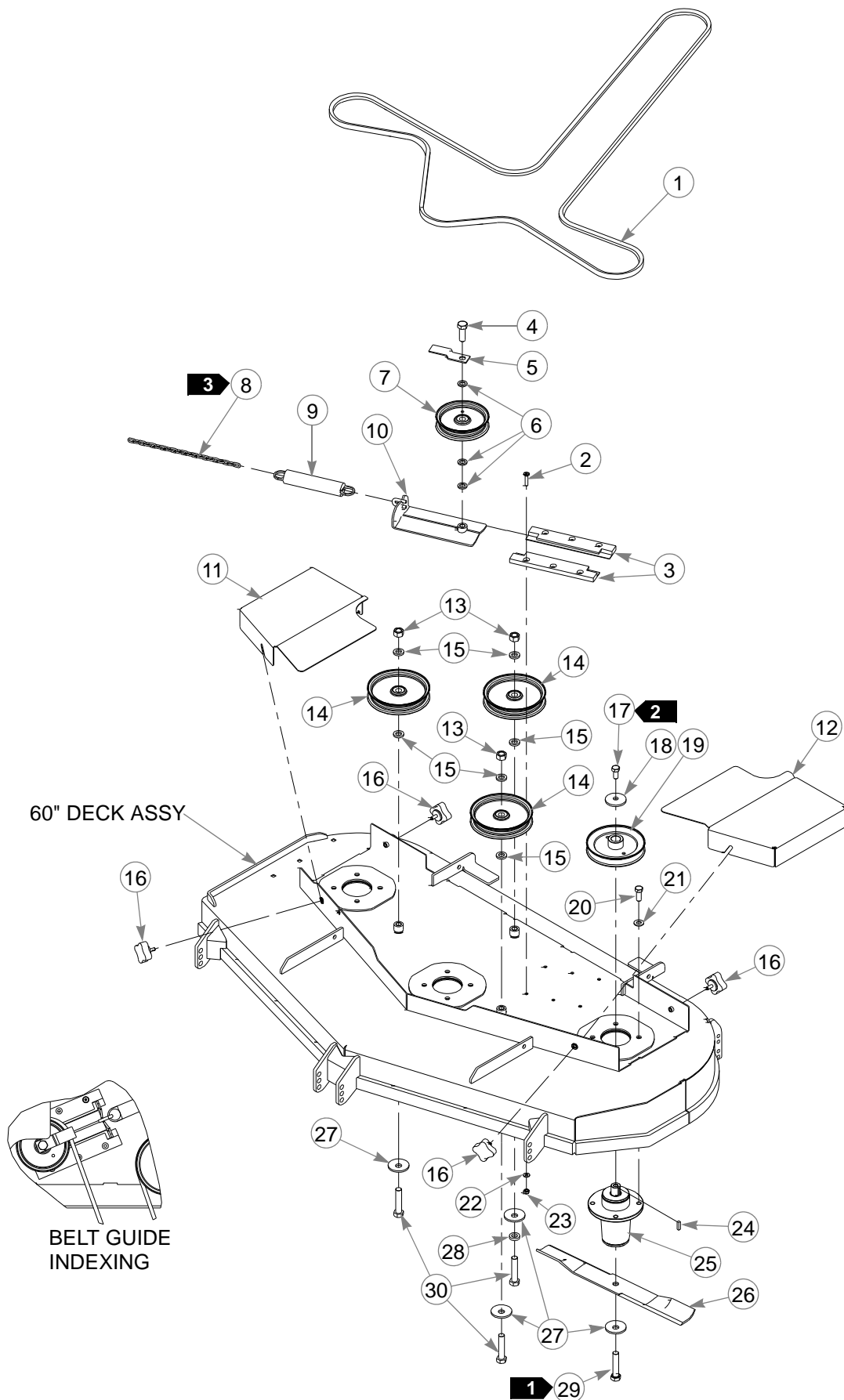
60" Side Discharge Deck Assembly (XR7)

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	548438	108501	1	60" DECK W/A CRATED
2	798694	798694	1	RUBBER CHUTE ASSEMBLY
3	052860	052860	8	CS .375-16 X 1.25 HX G5
4	767954	767954	26	FW .406 X .812 X .060 SAE HD ZN
5	086660	086660	14	NT .375-16 HX LK NY
6	103010	103010	1	DISCHARGE CHUTE MOUNT BRACKET
7	781567	781567	6	NT .50-13 HX LK NY
8	808485	808485	4	5/16-18 THREAD RIVET NUT
9	103184	103184	2	REAR ANTI-SCALP BRACKET
10	005116	005116	4	CS .375-16 X 1.375 HX G5 ZNYC
11	314104	314104	1	PUSHER
12	015495	015495	2	STRAIGHT GREASE FITTING
13	808493	808493	2	3/8-16 THREAD RIVET NUT
14	025395	025395	2	CB .375-16 X 1.00 STD CD
15	788166	788166	4	ANTI SCALP WHEEL ASSY
16	781708	N/A	6	CS .500-13 X 4.25 HX G5 ZN
17	767962	N/A	12	FW .531 X 1.063 X .090 SAE HD ZN
18	031997	N/A	6	ANTI-SCALP WHEEL
19	053199	N/A	6	NT .500-13 HX JAM ZN

NOTES:

1. Do not torque, Item 2 (798694 Discharge Chute) must pivot freely.
2. Includes items 16–19.
3. Service part deck includes decals (see "72", 66" & 60" Side Discharge Deck Decals(XR7)" on page 9-4 for listing of decals) and item 2 (Discharge Chute).

60" Side Discharge Deck Pulley Assembly (XR7)



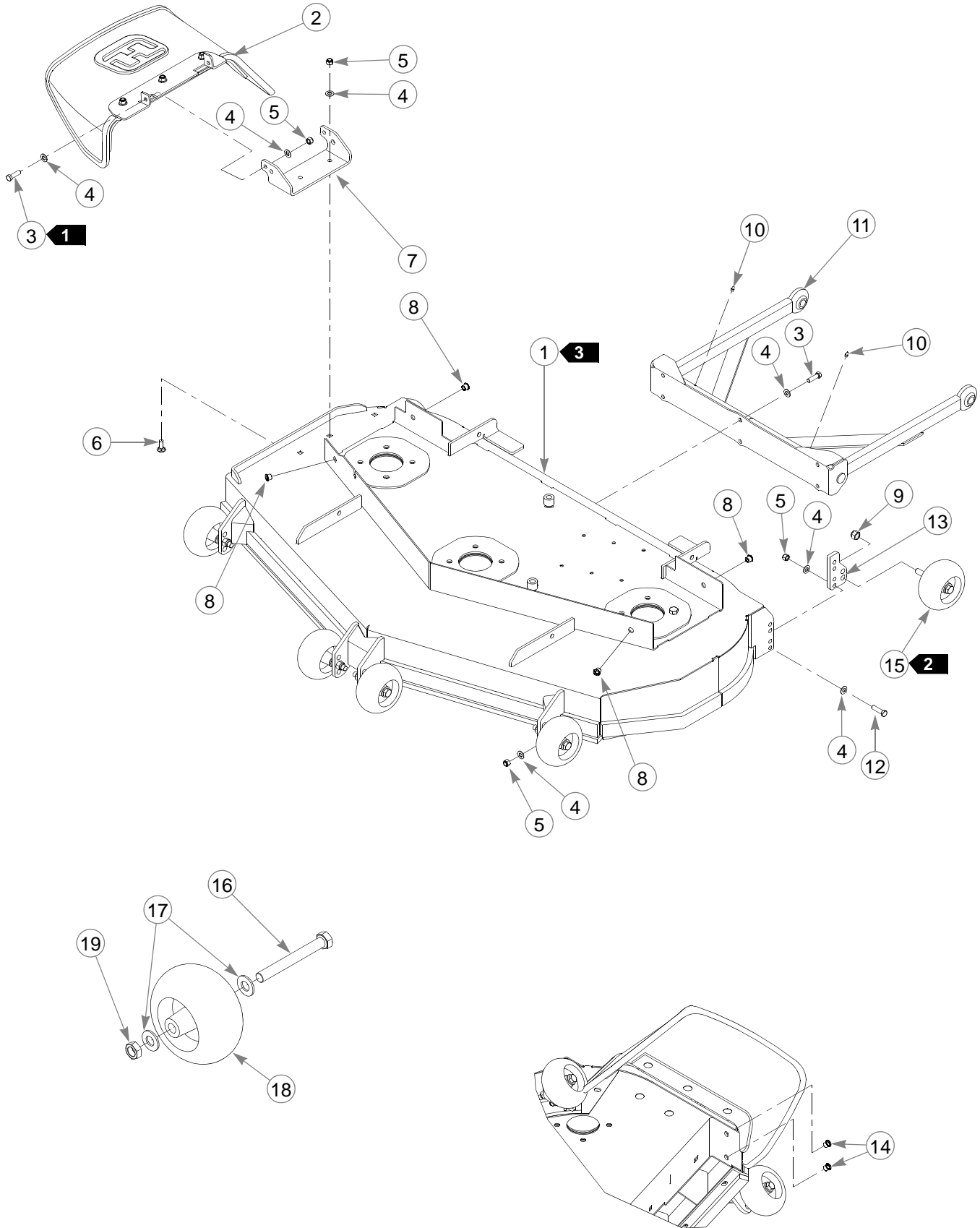
60" Side Discharge Deck Pulley Assembly (XR7)

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION	
1	797720	797720	1	B-SECTION BELT	
2	797910	797910	6	CS .312-18 X 1.50 FLT SH ZNYC	
3	601434	601434	2	UHMW IDLER SLIDE	
4	025007	025007	1	CS .625-11 X 1.75 HX G5 ZNYC	
5	347443	347443	1	DECK BELT IDLER GUIDE	
6	028118	028118	3	FW .62 X 1.00 X.134 ZN	
7	781856	781856	1	5.00" IDLER PULLEY	
8	373191	059931	1	SIDE MOUNT CHAIN (21 LINKS)	
9	781302	781302	1	IDLER SPRING	
10	350884	350884	1	DECK IDLER	
11	103192	103192	1	RS 60" XR7 PULLEY COVER	
12	103200	103200	1	LS 60" XR7 PULLEY COVER	
13	016972	016972	3	NT .625-11 HX G5 ZNYC	
14	781385	781385	3	6.00" IDLER PULLEY,	
15	797449	797449	6	FW .650 X1.125 X.18 ZNYCG5	
16	792002	792002	4	5/16-18 X 3/4" MALE KNOB	
17	016527	016527	3	CS .500-13 X 1.00 HX G5 ZN	
18	752386	752386	3	CW .515 X 2.25 X .204 ZN	
19	770842	770842	3	DECK DRIVE PULLEY	
20	705954	705954	12	CS .500-13 X 1.25 HX G5 ZNYC	
21	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN	
22	768523	768523	6	FW .343 X .687 X .051/.080 HD ZN	
23	058776	058776	6	NT .312-18 HXZY NL	
24	212472	212472	3	KEY 1/4 SQ X 1.00 LONG	
5	25	601630	3	SPINDLE HOUSING ASSEMBLY	
4		796235X	N/A	3	SPINDLE HOUSING ASSEMBLY
	26	794685	794685	3	BLADE, F20.50" H-F-CW
	27	782474	782474	6	CW .631 2.250 X .187 PNT
	28	769257	769257	1	FW .656 X 1.250X.250 ZNYC
5	29	601983	601983	3	CS .625-11 X 2.25 HXG5ZY
4		029934	N/A	3	CS .625 -11 X 3.00 HX G5 ZNYC
	30	783738	783738	3	CS .625-11 X 3.00 FULL HX G5 ZN

NOTES:

1. Torque to 118 ft. lbs.
2. Torque to 65-75 ft. lbs.
3. See "60" Side Discharge Belt Routing and Tensioning" on page 8-5 for belt tensioning.
4. Used on mowers with serial numbers prior to 09110001. See "Spindle Assembly—796235" on page 7-42 for breakdown.
5. Used on mowers with serial numbers higher than 09110001.
6. Item 3 (601434) replaces idler slide components 600171, 600189 and 786335 found on mowers with serial numbers prior to 08010000.

54" Side Discharge Deck Assembly (XR7)



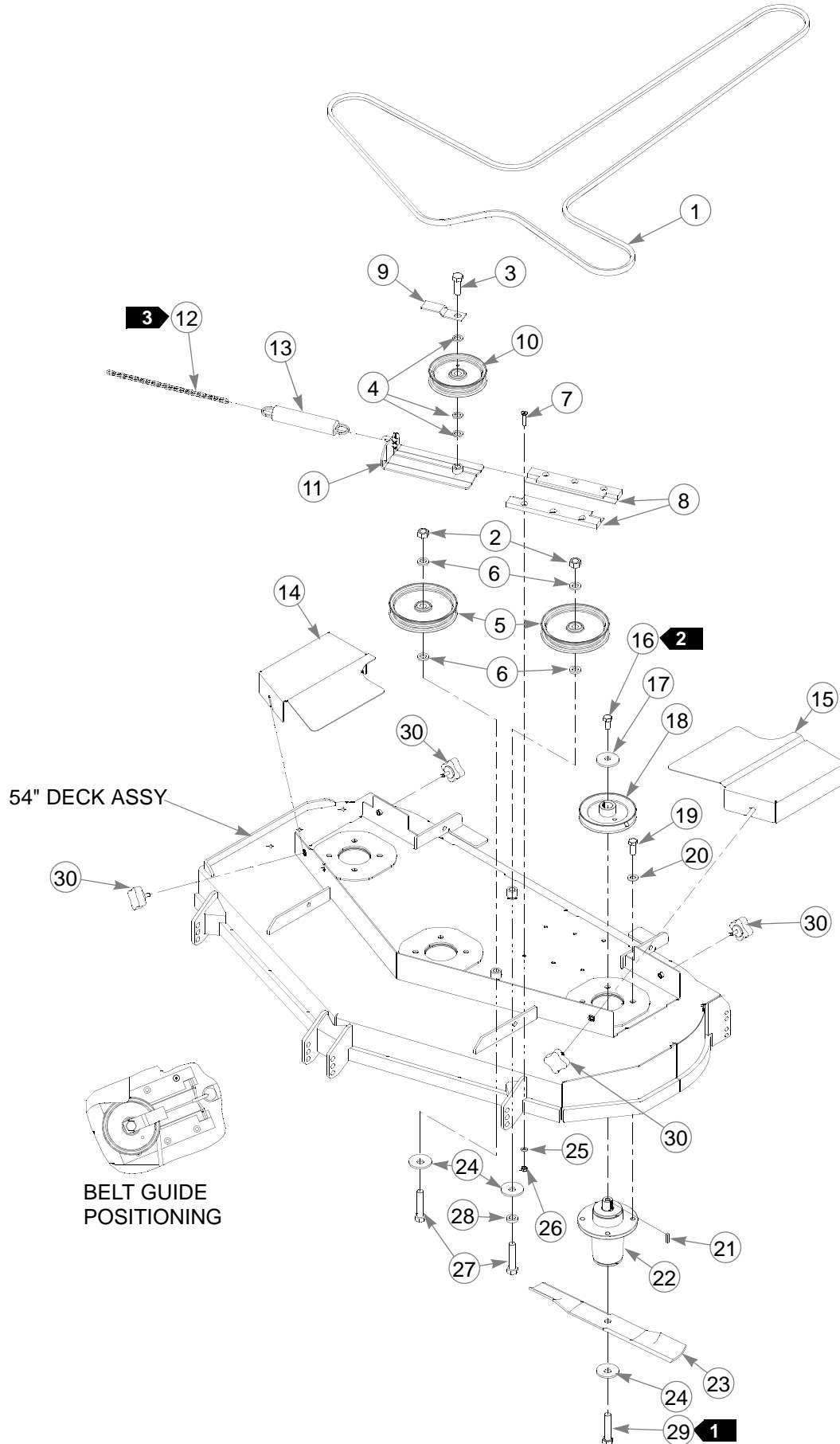
54" Side Discharge Deck Assembly (XR7)

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	548420	108607	1	54" DECK W/A CRATED
2	798694	798694	1	54" DISCHARGE CHUTE
3	052860	052860	8	CS .375-16 X 1.25 HX G5 ZN
4	767954	767954	26	FW .406 X .812 X .060 SAE HD ZN
5	086660	086660	14	NT .375-16 HX LK NY
6	025395	025395	2	CB .375-16X 1.00 STD CD
7	103010	103010	1	DISCHARGE CHUTE MOUNT BRACKET
8	N/A	808485	4	5/16-18 THREAD RIVET NUT
9	781567	781567	6	NT .50-13 HX LK NY
10	015495	015495	2	STRAIGHT GREASE FITTING
11	314104	314104	1	PUSHER
12	005116	005116	4	CS .375-16X1.375 HX G5
13	103184	103184	2	REAR ANTI-SCALP BRACKET
14	N/A	808493	2	3/8-16 THREAD RIVET NUT
15	788166	788166	6	ANTI-SCALP WHEEL ASSEMBLY
16	781708	N/A	6	CS .500-13 X 4.25 HX G5 ZN
17	767962	N/A	12	FW .531 X 1.063 X .090 SAE HD ZN
18	031997	N/A	6	ANTI-SCALP WHEEL
19	053199	N/A	6	NT .500-13 HX JAM ZN

NOTES:

1. Do not torque, Item 2 (798694 Discharge Chute) must pivot freely.
2. Includes items 16–19.
3. Service part deck includes decals (see "54" Side Discharge Deck Decals (XR7)" on page 9-5 for listing of decals) and item 2 (Discharge Chute).

54" Side Discharge Deck Pulley Assembly (XR7)



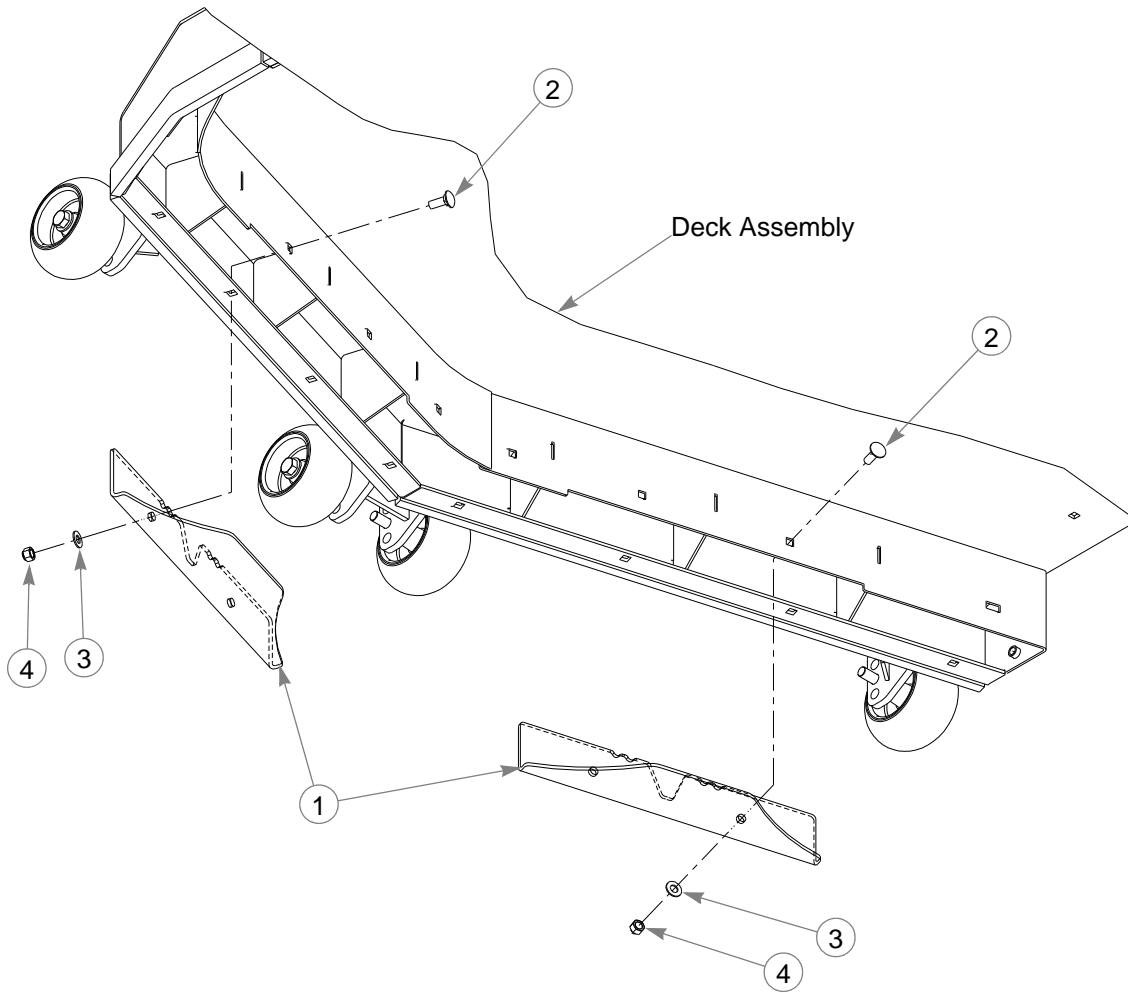
54" Side Discharge Deck Pulley Assembly (XR7)

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	797928	797928	1	B-SECTION BELT
2	016972	016972	2	NT .625-11 HX G5 ZNYC
3	025007	025007	1	CS .625-11 X 1.50 HX G5 ZN
4	028118	028118	3	FW .62 X 1.00 X .134 ZN
5	781385	781385	2	6.00" IDLER PULLEY
6	797449	797449	4	FW .650 X 1.125 X .18 ZNYCG5
7	797910	797910	6	CS .312-18X1.50FLT SH ZY
8	601434	601434	2	IDLER SLIDE UHMW RS
9	347443	347443	1	DECK BELT IDLER TOP GUIDE
10	781856	781856	1	5.00" IDLER PULLEY
11	350884	350884	1	DECK IDLER
12	373191	059931	1	SIDE MOUNT CHAIN 21 LINKS
13	781302	781302	1	IDLER SPRING
14	103986	103986	1	RS 54" PULLEY COVER
15	103994	103994	1	LS 54" PULLEY COVER
16	016527	016527	3	CS .500-13 X 1.00 HX G5 ZN
17	752386	752386	3	CW .515 X 2.25 X .204 ZN
18	798967	798967	3	DECK DRIVE PULLEY
19	705954	705954	12	CS .500-13 X 1.25 HX G5 ZY
20	767962	767962	12	FW .531 X 1.063X.090 SAE
21	212472	212472	3	KEY 1/4 SQ X 1.00 LONG
5	22	601630	3	SPINDLE HOUSING ASSEMBLY
4		796235X	3	SPINDLE HOUSING ASSEMBLY
	23	797696	3	BLADE, F18.50"-H-F-CW
	24	782474	5	CW .631 X 2.250 X .187 PNT
	25	768523	6	FW .343 X .687 X .051/.080H
	26	058776	6	NT .312-18 HXZY NL
	27	783738	2	CS .625-11 X 3.00 FULL HX G5 ZN
	28	769257	1	FW .656 X 1.250 X .250 ZNY
5	29	601983	3	CS .625-11 X 2.25 HXG5ZY
4		029934	3	CS .625 -11 X 3.00 HX G5 ZNYC
	30	792002	4	5/16-18 X 3/4"MALE KNOB

NOTES:

1. Torque to 118 ft. lbs.
2. Torque to 65-75 ft. lbs.
3. See "72", 66", & 54" Side Discharge Belt Routing and Tensioning" on page 8-4 for belt tensioning.
4. Used on mowers with serial numbers prior to 09110001. See "Spindle Assembly—796235" on page 7-42 for breakdown.
5. Used on mowers with serial numbers higher than 09110001.
6. Item 3 (601434) replaces idler slide components 600171, 600189 and 786335 found on mowers with serial numbers prior to 08010000.

Side Discharge Deck—"A" Adaptors

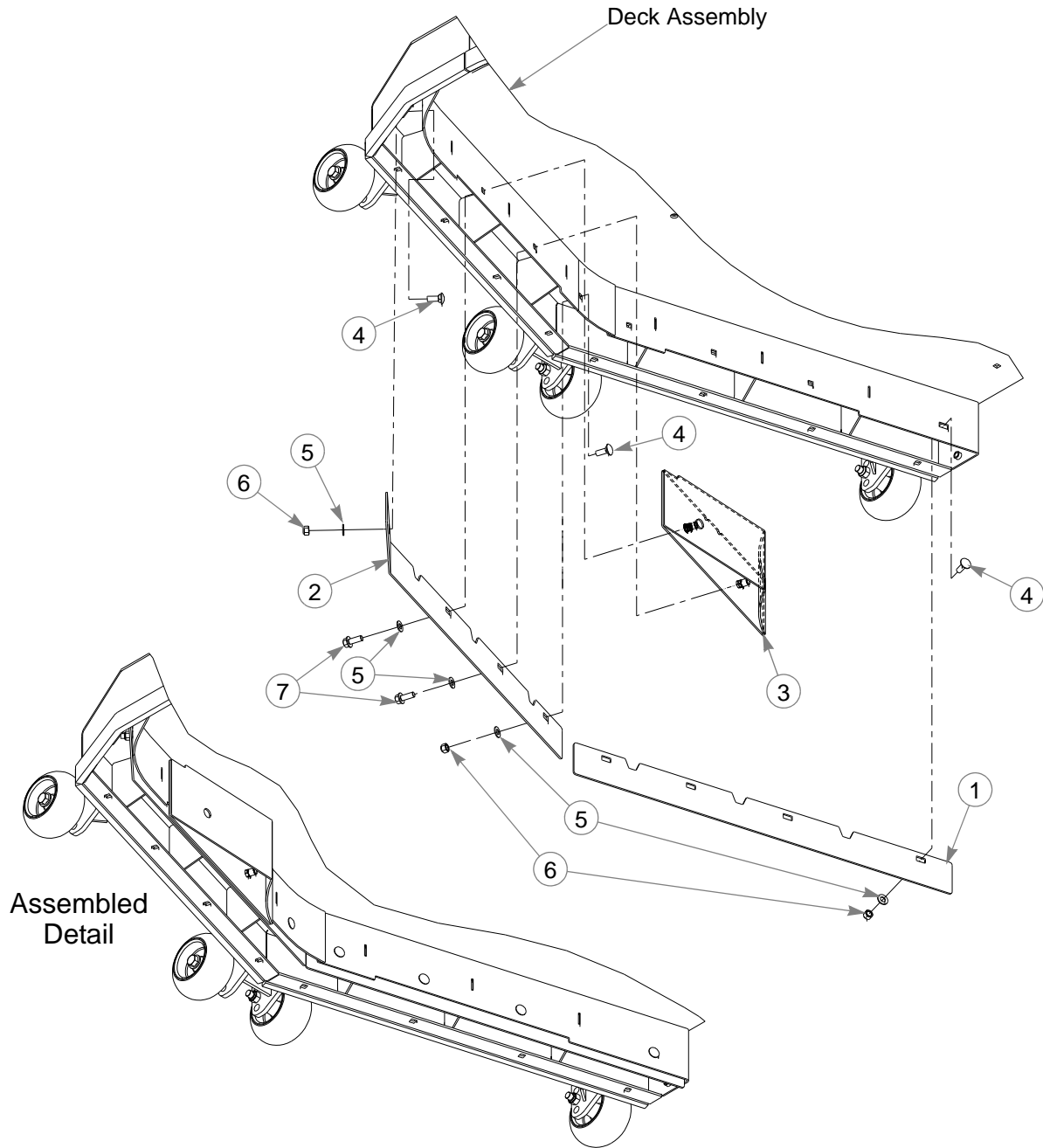


Side Discharge Deck—"A" Adaptors

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1 1	108661	108661	2	AIR FLOW FLOOR (72" DECKS)
	108531	108531	2	AIR FLOW FLOOR (66" DECKS)
	108516	108516	2	AIR FLOW FLOOR (60" DECKS)
	108619	108619	2	AIR FLOW FLOOR (54" DECKS)
2	025395	025395	4	CB .375-16X 1.00 STD CD
3	767954	767954	4	FW .406X .812 X.060 SAE
4	086660	086660	4	NT .375-16 HXZY NL

NOTES:

Side Discharge Deck—"B" Adaptors



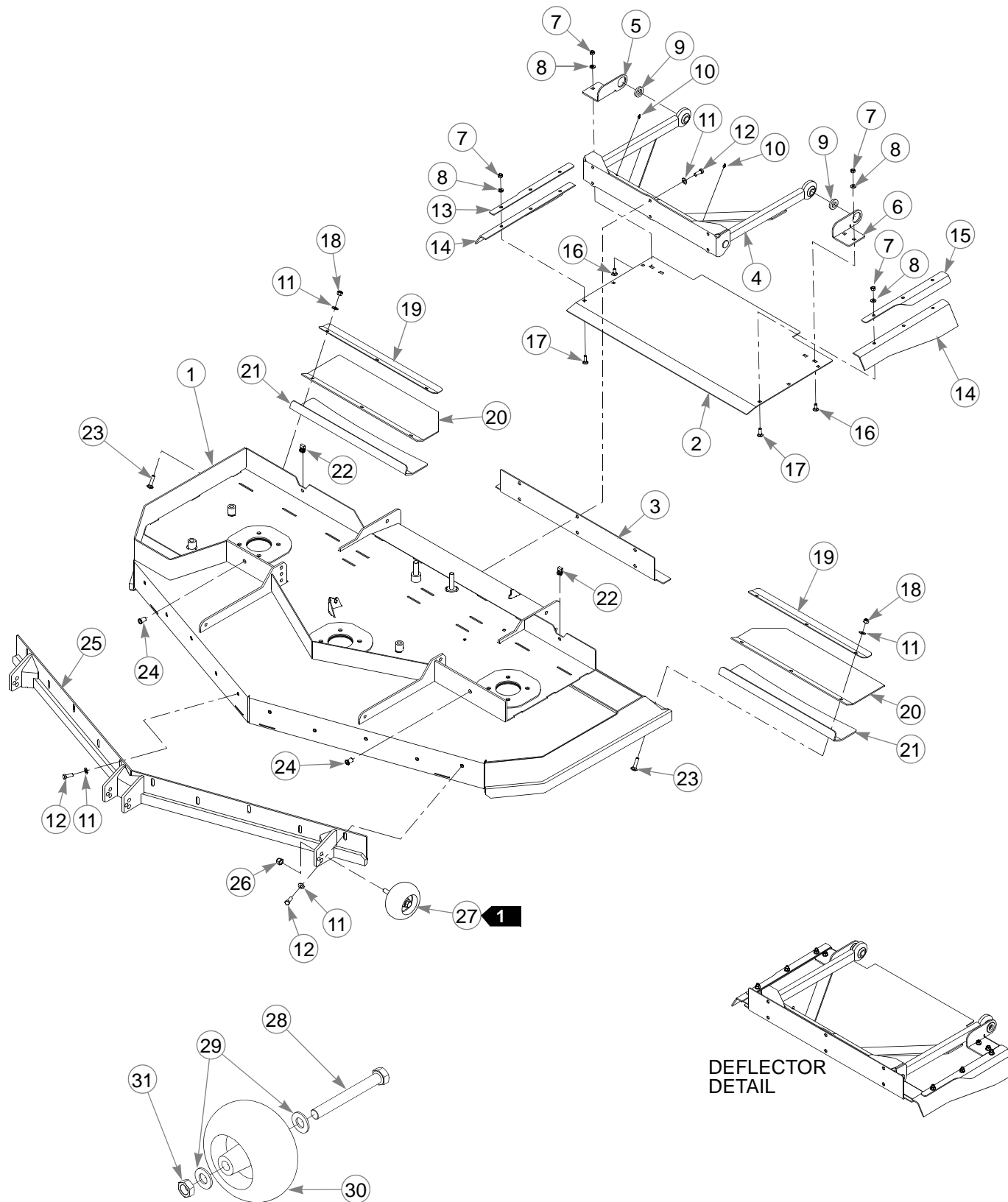
Side Discharge Deck—"B" Adaptors

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	108663	108663	1	AIR FLOW BAFFLE, "B" RIGHT SIDE (72" DECKS)
	108533	108533	1	AIR FLOW BAFFLE, "B" RIGHT SIDE (66" DECKS)
	108518	108518	1	AIR FLOW BAFFLE, "B" RIGHT SIDE (60" DECKS)
	108621	108621	1	AIR FLOW BAFFLE, "B" RIGHT SIDE (54" DECKS)
2	108662	108662	1	AIR FLOW BAFFLE, "B" LEFT SIDE (72" DECKS)
	108532	108532	1	AIR FLOW BAFFLE, "B" LEFT SIDE (66" DECKS)
	108517	108517	1	AIR FLOW BAFFLE, "B" LEFT SIDE (60" DECKS)
	108620	108620	1	AIR FLOW BAFFLE, "B" LEFT SIDE (54" DECKS)
1 3	108241	108035	1	AIR LIFT DEFLECTOR (72" DECKS)
	108221	108215	1	AIR LIFT DEFLECTOR (66" DECKS)
	108212	108013	1	AIR LIFT DEFLECTOR (60" DECKS)
	108254	108256	1	AIR LIFT DEFLECTOR (54" DECKS)
4	025395	025395	6	CB .375-16X 1.00 STD CD
5	767954	767954	8	FW .406 X .812 X .060 SAE HD ZN
6	086660	086660	6	NT .375-16 HXZY NL
7	029751	029751	2	CS .375-16X1.000 HXFLK

NOTES:

1. Service parts for 108035, 108215, 108013, and 108256 include rivet nuts.

72" Rear Discharge Deck Assy—S/N Higher Than 08090000



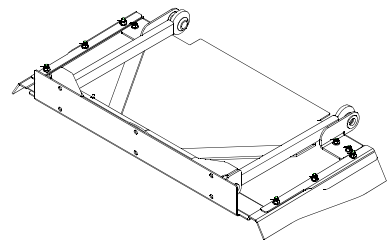
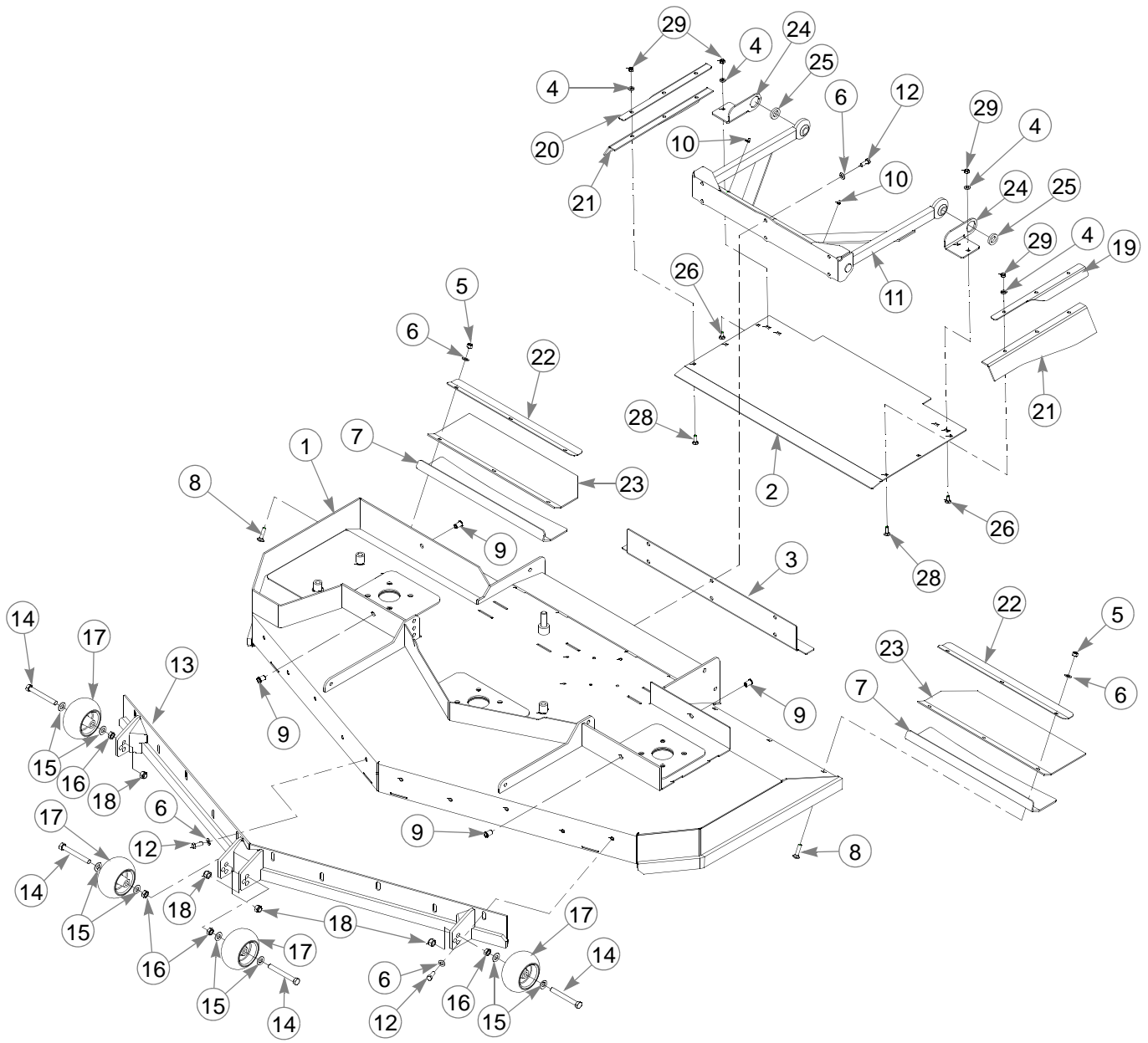
72" Rear Discharge Deck Assy—S/N Higher Than 08090000

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
2 1	549667	110450	1	72" REAR DISCHARGE DECK
2	109484	109484	1	DISCHARGE SHIELD
3	109485	109485	1	GUARD MOUNTING ANGLE
4	349803	349803	1	PUSHER
5	109483	109483	1	CHUTE BRACKET
6	109482	109482	1	CHUTE BRACKET
7	058776	058776	10	NT .312-18 HX ZY NL
8	768523	768523	10	FW .343 X .687 X .051/.080 HD ZN
9	778399	778399	2	FW .781 X 1.375 X .250 ZN YC
10	015495	015495	2	STRAIGHT GREASE FITTING
11	767954	767954	22	FW .406 X .812 X .060 SAE HD ZN
12	036244	036244	16	CS .375-16 X 1.00 HX G5 ZN
13	109487	109487	1	CLAMP ANGLE RS
14	601483	601483	2	RUBBER SIDE FLAP
15	109486	109486	1	CLAMP ANGLE LS
16	016253	016253	4	CB .312-18 X .750 FUL ZN
17	037887	037887	6	CB .312-18 X 1.000 FUL Z
18	086660	086660	6	NT .375-16 HX LK NY
19	107712	107712	2	ANGLE, DISCHARGE CHUTE
20	600930	600930	2	RD REAR FLAP
21	101360	101360	2	DECK STIFFENER ANGLE
22	601069	601069	2	CN .312-18X.200
23	710194	710194	6	CB .375-16 X 1.50 STD G5
24	808485	808485	2	5/16-18 THREAD RIVET NUT
25	101477	101477	1	72" REAR DISCHARGE FRONT ANGLE
26	781567	781567	4	NT .50-13 HX ZY NL
27	788166	788166	4	ANTI SCALP WHEEL ASSEMBLY
28	781708	N/A	4	CS .500-13 X 4.25 HX G5 ZN
29	767962	N/A	8	FW .531 X 1.063 X .090 SAE HD ZN
30	031997	N/A	4	ANTI-SCALP WHEEL
31	053199	N/A	4	NT .500-13 HX JAM ZN

NOTES:

1. Includes items 28–31.
2. Service part deck includes decals, see “72" Rear Discharge Deck Decals” on page 9-6.

72" Rear Discharge Deck Assy—S/N 08010000–08090000



DEFLECTOR DETAIL

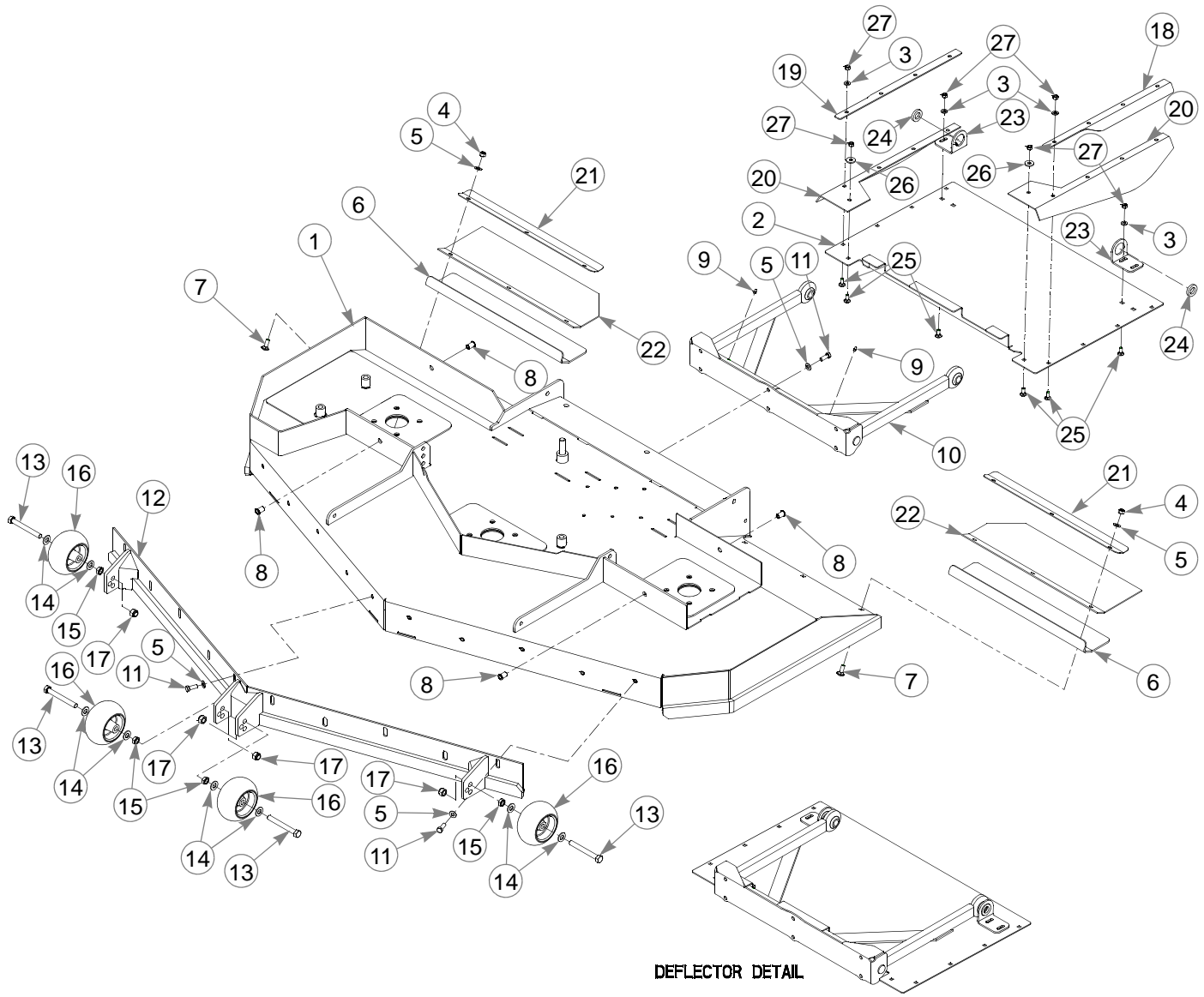
72" Rear Discharge Deck Assy—S/N 08010000–08090000

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
2 1	547406	101295	1	72" REAR DISCHARGE DECK
2	109484	109484	1	DISCHARGE SHEILD
3	109485	109485	1	GUARD MOUNTING ANGLE
4	768523	768523	15	FW .343 X .687 X .051/.080 HD ZN
5	086660	086660	10	NT .375-16 HX LK NY
6	767954	767954	22	FW .406 X .812 X .060 SAE HD ZN
7	101360	101360	2	DECK STIFFENER ANGLE
8	710194	710194	6	CB .375-16 X 1.50 STD G5
9	808485	N/A	4	5/16-18 THREAD RIVET NUT
10	015495	015495	2	STRAIGHT GREASE FITTING
11	349803	349803	1	PUSHER
12	036244	036244	16	CS .375-16 X 1.00 HX G5 ZN
13	101477	101477	1	72" REAR DISCHARGE FRONT ANGLE
14	781708	N/A	4	CS .500-13 X 4.25 HX G5 ZN
15	767962	N/A	8	FW .531 X 1.063 X .090 SAE HD ZN
16	053199	N/A	4	NT .500-13 HX JAM ZN
17	031997	N/A	4	ANTI-SCALP WHEEL
18	781567	781567	4	NT .50-13 HX ZY NL
19	109486	109486	1	CLAMP ANGLE LS
20	109487	109487	1	CLAMP ANGLE RS
21	601483	601483	2	RUBBER SIDE FLAP
22	107712	107712	2	ANGLE, DISCHARGE CHUTE
23	600930	600930	2	RD REAR FLAP
24	109482	109482	1	CHUTE BRACKET RS
25	109483	109483	1	CHUTE BRACKET LS
26	778399	778399	2	FW .781 X 1.375 X .250 ZN YC
27	016253	016253	4	CB .312-18 X .750 FUL ZN
28	037887	037887	6	CB .312-18 X 1.000 FUL Z
29	058776	058776	10	NT .312-18 HX ZY NL
1	788166	788166	4	ANTI SCALP WHEEL ASSEMBLY

NOTES:

1. Includes Items 14–17 .
2. Service part deck includes decals, see “72" Rear Discharge Deck Decals” on page 9-6.

72" Rear Discharge Deck Assy—S/N Prior To 08010000



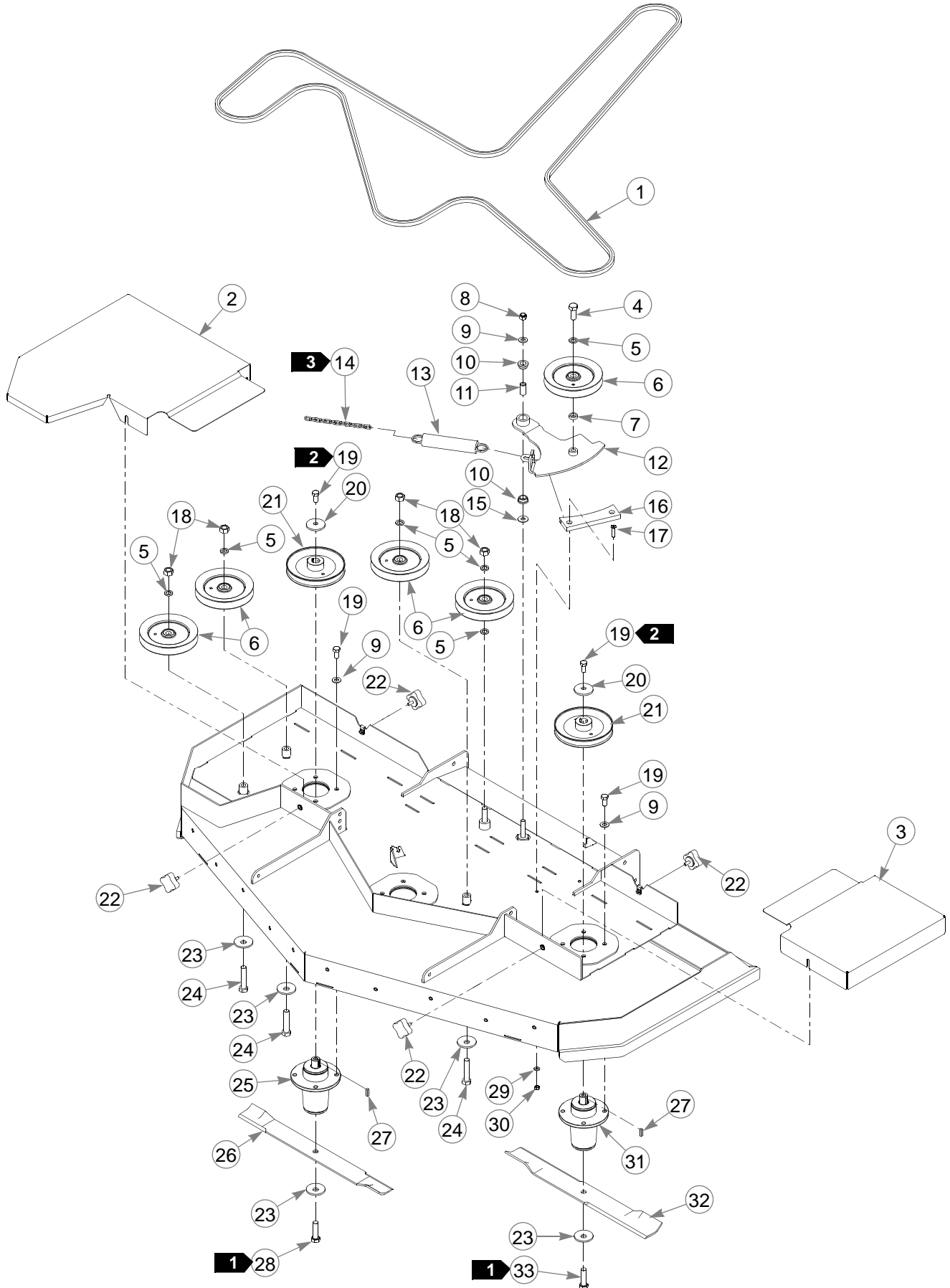
72" Rear Discharge Deck Assy—S/N Prior To 08010000

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
2 1	547406	101295	1	72" REAR DISCHARGE DECK
2	106781	106781	1	RD DECK GUARD
3	768523	768523	15	FW .343 X .687 X .051/.080 HD ZN
4	086660	086660	10	NT .375-16 HX LK NY
5	767954	767954	22	FW .406 X .812 X .060 SAE HD ZN
6	101360	101360	2	DECK STIFFENER ANGLE
7	025395	025395	6	CB .375-16 X 1.00 STD CD
8	808485	808485	4	5/16-18 THREAD RIVET NUT
9	015495	015495	2	STRAIGHT GREASE FITTING
10	349803	349803	1	PUSHER
11	036244	036244	16	CS .375-16 X 1.00 HX G5 ZN
12	101477	101477	1	72" REAR DISCHARGE FRONT ANGLE
13	781708	N/A	4	CS .500-13 X 4.25 HX G5 ZN
14	767962	N/A	8	FW .531 X 1.063 X.090 SAE HD ZN
15	053199	N/A	4	NT .500-13 HX JAM ZN
16	031997	N/A	4	ANTI-SCALP WHEEL
17	781567	781567	4	NT .50-13 HXZY NL
18	106724	106724	1	RD DEFLECTOR CLAMP LS ANGLE
19	106666	106666	1	RD DEFLECTOR CLAMP RS ANGLE
20	600262	600262	2	RD SIDE FLAP
21	107712	107712	2	ANGLE, DISCHARGE CHUTE
22	600930	600930	2	RD REAR FLAP
23	106591	106591	2	RD DECK GUARD BRACKET
24	778399	778399	2	FW .781 X 1.375 X .250 ZNYC
25	016253	016253	14	CB .312-18 X .750 FUL ZN
26	712927	712927	2	FW .344 X 1.00 X .12 HRD ZN
27	058776	058776	14	NT .312-18 HXZY NL
1	788166	788166	4	ANTI SCALP WHEEL ASSEMBLY

NOTES:

1. Includes Items 13–16.
2. Service part deck includes decals, see “72" Rear Discharge Deck Decals” on page 9-6.

72" Rear Disch Deck Pulley Assy—S/N Higher Than 08090000



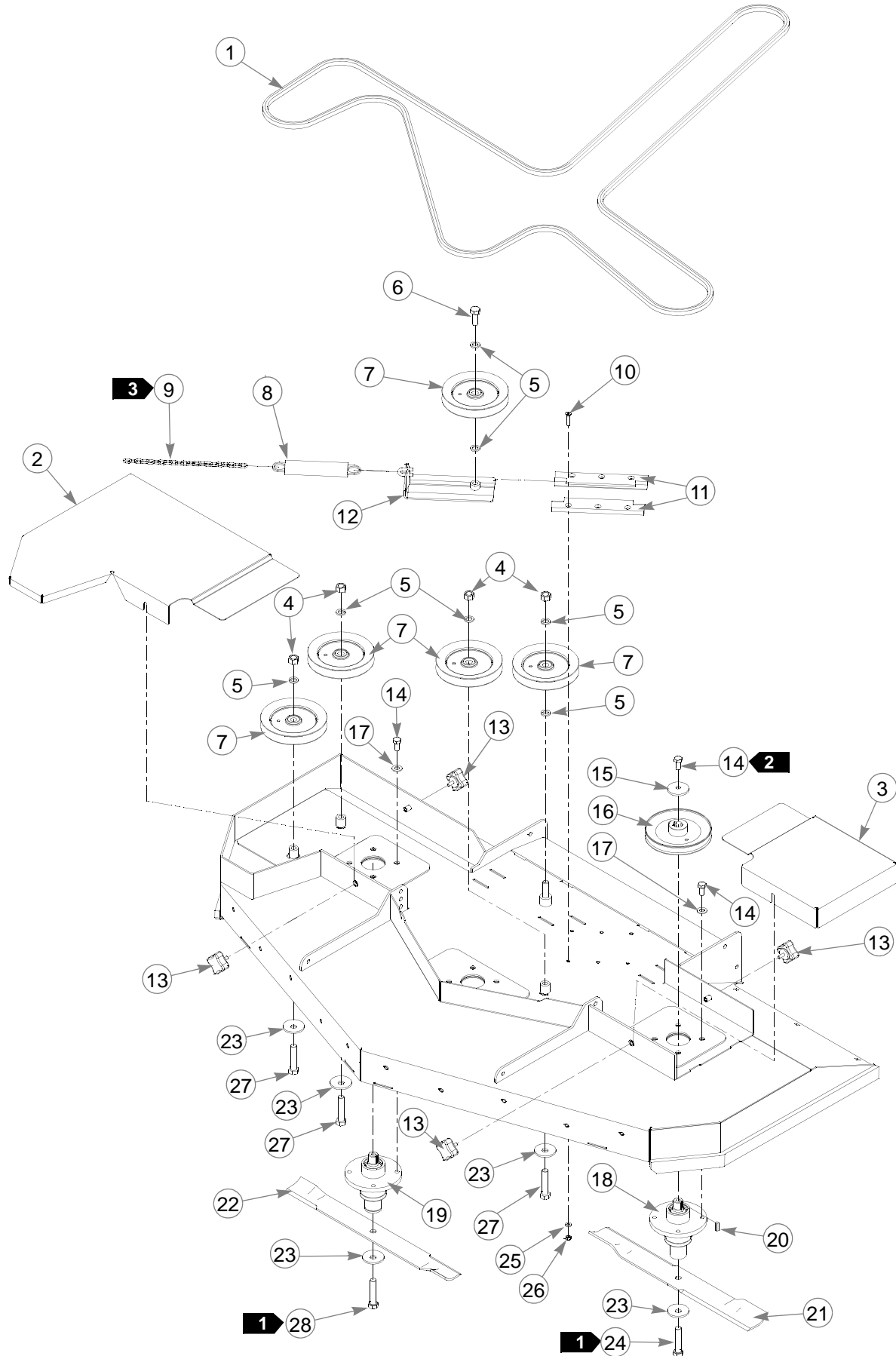
72" Rear Disch Deck Pulley Assy—S/N Higher Than 08090000

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	797167	797167	1	72" REAR DISCHARGE DECK BELT
2	110459	110459	1	PULLEY COVER RH
3	110458	110458	1	PULLEY COVER LH
4	794446	794446	1	CS .625-11X1.25 HX G5 Z
5	028118	028118	6	FW .62 X 1.00 X .134 ZN
6	796714	796714	5	6" HB IDLER PULLEY RD
7	600296	600296	1	DECK IDLER SPACER
8	781567	781567	1	NT .500-13 HX G8 ZY NL
9	767962	767962	13	FW .531 X 1.063 X .090 SAE HD ZN
10	770867	770867	2	PLASTIC BUSHING .750X1
11	109549	109549	1	IDLER PIVOT BUSHING
12	109948	109948	1	IDLER ARM W/A
13	781302	781302	1	IDLER SPRING
14	259812	059931	1	SIDE MOUNT CHAIN (13 LINKS)
15	704759	704759	1	FW .500X 1.250X.075 ZNY
16	601779	601779	1	IDLER GUIDE UHMW
17	797910	797910	2	CS .312-18 X1.50FLT SH ZY
18	016972	016972	4	NT .625-11 HX G5 ZNYC
19	016527	016527	15	CS .500-13 X 1.00 HX G5 ZN
20	752386	752386	3	CW .515 X 2.25 X .204 ZN
21	538850	538850	3	DRIVE PULLEY DB-112
22	792002	792002	4	5/16-18 X 3/4" MALE KNOB
23	782474	782474	6	CW .631 X 2.250 X .187 PNT
24	783738	783738	3	CS .625-11 X 3.00 FULL HX G5 ZN
6	25	601819	1	REAR DISCHARGE DECK SPINDLE ASSEMBLY
5	26	796680X	1	REAR DISCHARGE DECK SPINDLE ASSEMBLY
	27	796508	1	BLADE, F23.86-L-F-CCW
	28	212472	3	KEY 1/4 SQ X 1.00 LONG
6	29	601999	1	CS .625-11 X 2.25 LH H5Y
5	30	796722	1	CS .625-11 X 3.00 LH HX G
	31	768523	1	FW .343 X .687 X .051/.080 HD ZN
	32	058776	1	NT .312-18 HXZY NL
6	33	601630	2	SPINDLE HOUSING ASSEMBLY
4		796235X	2	SPINDLE HOUSING ASSEMBLY
	34	796839	2	BLADE, F23.86-L-F-CW
6	35	601983	2	CS .625-11 X 2.25 HXG5ZY
4	36	029934	2	CS .625-11 X 3.00 HX G5 ZNYC

NOTES:

1. Torque to 118 ft. lbs.
2. Torque to 65-75 ft. lbs.
3. See "72" & 60" Rear Discharge Belt Routing and Tensioning" on page 8-6 for belt tensioning.
4. Used on mowers with serial numbers prior to 09110001. See "Spindle Assembly—796235" on page 7-42 for breakdown.
5. Used on mowers with serial numbers prior to 09110001. See "Spindle Assembly—796680" on page 7-43 for breakdown.
6. Used on mowers with serial numbers higher than 09110001.

72" Rear Disch. Deck Pulley Assy—S/N Prior To 08090000



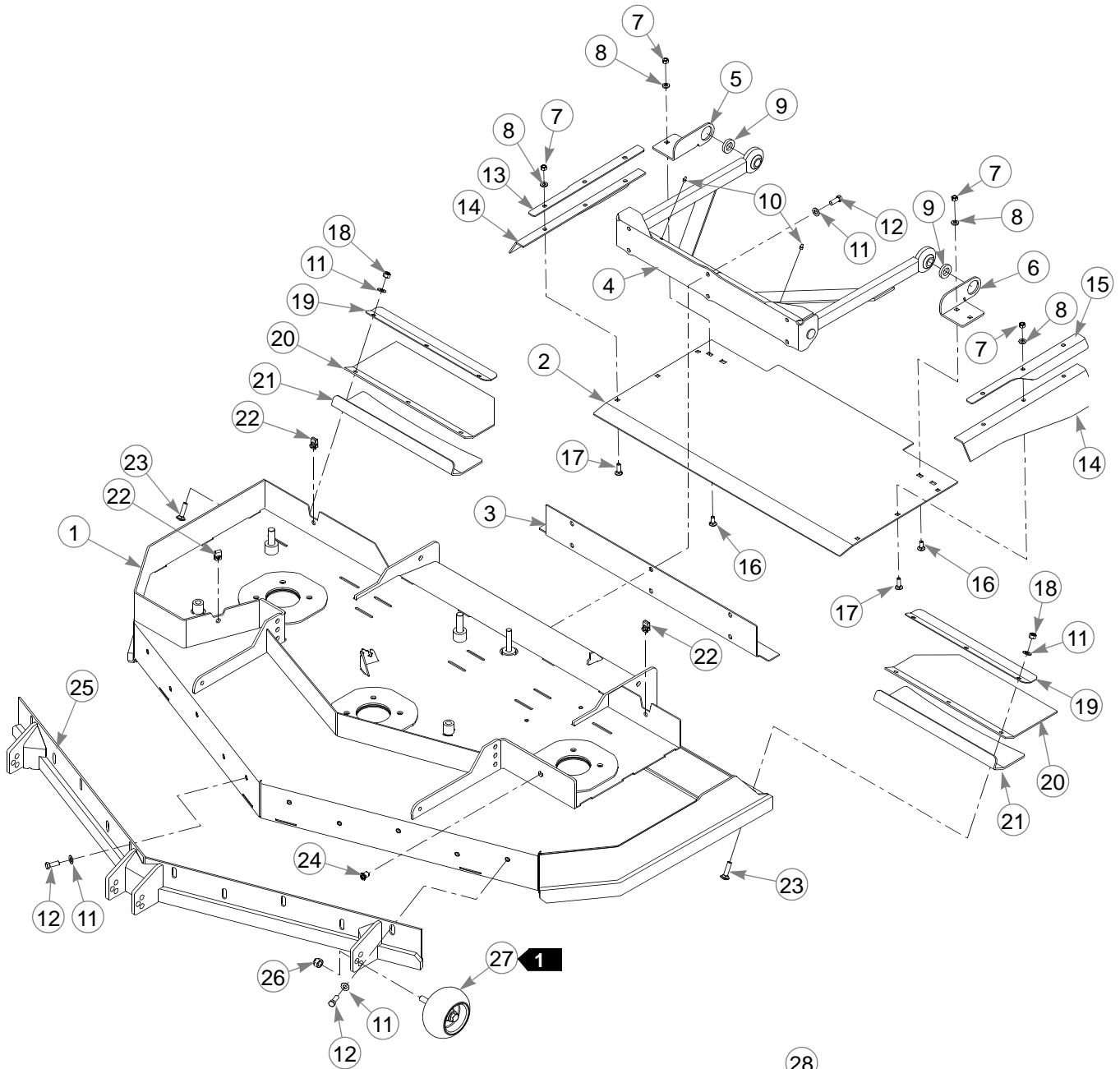
72" Rear Disch. Deck Pulley Assy—S/N Prior To 08090000

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	797167	797167	1	72" REAR DISCHARGE DECK BELT
2	101345	101345	1	RIGHT 72" REAR DISCHARGE PULLEY COVER
3	101352	101352	1	LEFT 72" REAR DISCHARGE PULLEY COVER
4	016972	016972	4	NT .625-11 HX G5 ZNYC
5	028118	028118	7	FW .62 X 1.00 X .134 ZN
6	794446	794446	1	CS .625-11X1.500 HX G5
7	796714	796714	5	6" HB IDLER PULLEY RD
8	781302	781302	1	IDLER SPRING
9	373191	059931	1	SIDE MOUNT CHAIN (21 LINKS)
10	797910	797910	6	CS .312-18 X1.50FLT SH ZY
11	601434	601434	2	UHMW IDLER SLIDE
12	350884	350884	1	REAR DISCHARGE DECK IDLER
13	792002	792002	4	5/16-18 X 3/4" MALE KNOB
14	016527	016527	15	CS .500-13 X 1.00 HX G5 ZN
15	752386	752386	3	CW .515 X 2.25 X .204 ZN
16	538850	538850	3	DRIVE PULLEY DB-112
17	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
18	796235X	796235	2	SPINDLE HOUSING ASSEMBLY
19	796680X	796680	1	REAR DISCHARGE DECK SPINDLE ASSEMBLY
20	212472	212472	3	KEY 1/4 SQ X 1.00 LONG
21	796839	796839	2	BLADE, F23.86-L-F-CW
22	796508	796508	1	BLADE, F23.86-L-F-CCW
23	782474	782474	6	CW .631 X 2.250 X .187 PNT
24	029934	029934	2	CS .625-11 X 3.00 HX G5 ZNYC
25	768523	768523	4	FW .343 X .687 X .051/.080 HD ZN
26	058776	058776	4	NT .312-18 HXZY NL
27	783738	783738	3	CS .625-11 X 3.00 FULL HX G5 ZN
28	796722	796722	1	CS .625-11 X 3.00 LH HX G

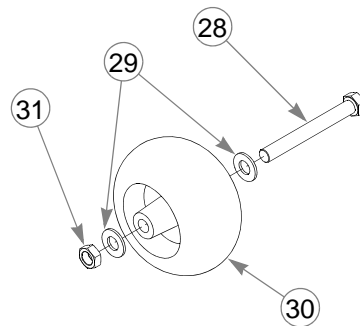
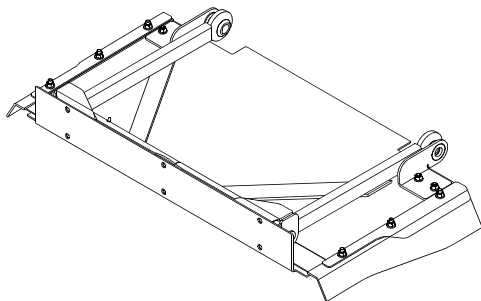
NOTES:

1. Torque to 118 ft. lbs.
2. Torque to 65-75 ft. lbs.
3. See "72" & 60" Rear Disch. Belt Routing and Tensioning" on page 8-7 for belt tensioning.
4. See "Spindle Assembly—796235" on page 7-42 for breakdown.
5. See "Spindle Assembly—796680" on page 7-43 for breakdown.
6. Item 11 (601434) replaces idler slide components 600171, 600189 and 786335 found on mowers with serial numbers prior to 08010000.

60" Rear Discharge Deck Assy—S/N 08080000 & Higher



DEFLECTOR DETAIL



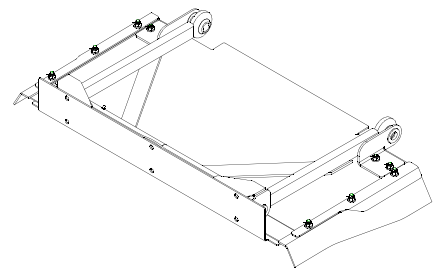
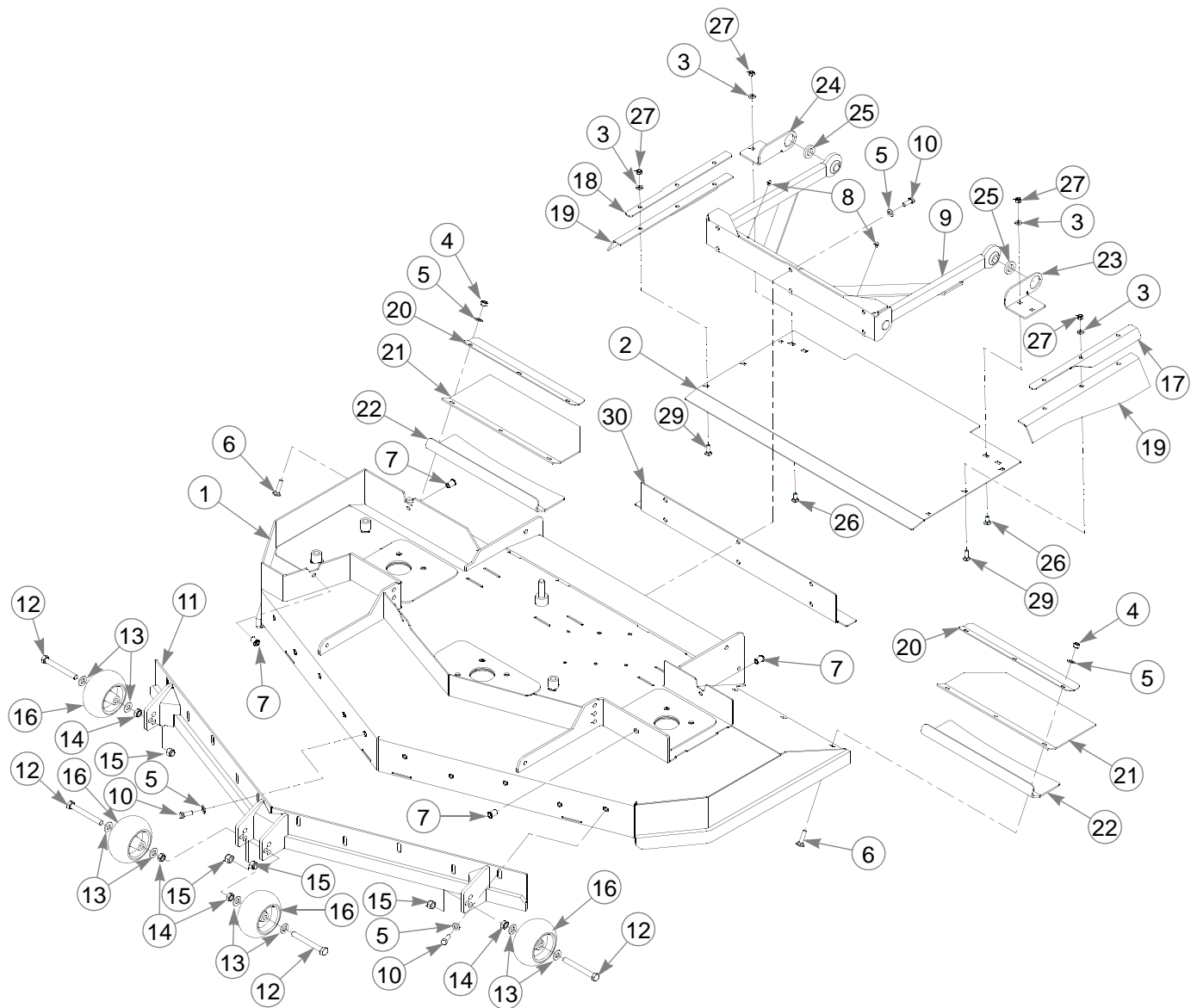
60" Rear Discharge Deck Assy—S/N 08080000 & Higher

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION	
2	1	549576	110402	1	60" REAR DISCHARGE DECK
	2	109484	109484	1	DISCHARGE SHIELD
	3	109485	109485	1	GUARD MTG ANGLE
	4	349803	349803	1	PUSHER
	5	109483	109483	1	CHUTE BRACKET LS
	6	109482	109482	1	CHUTE BRACKET RS
	7	058776	058776	10	NT .312-18 HXZY NL
	8	768523	768523	10	FW .343 X .687 X .051/.080 HD ZN
	9	778399	778399	2	FW .781 X 1.375 X .250 ZNYC
	10	015495	015495	2	STRAIGHT GREASE FITTING
	11	767954	767954	22	FW .406 X .812 X .060 SAE HD ZN
	12	036244	036244	16	CS .375-16 X 1.00 HX G5 ZN
	13	109487	109487	1	CLAMP ANGLE RS
	14	601483	601483	2	SIDE FLAP RUBBER
	15	109486	109486	1	CLAMP ANGLE LS
	16	016253	016253	4	CB .312-18 X .750 FUL ZN
	17	037887	037887	6	CB .312-18 X 1.000 FUL Z
	18	086660	086660	6	NT .375-16 HX LK NY
	19	106716	106716	2	ANGLE, DISCHARGE CHUTE
	20	600254	600254	2	RD REAR FLAP
	21	351676	351676	2	DECK STIFFENER ANGLE
	22	601069	601069	3	CN .312-18X.200
	23	710194	710194	6	CB .375-16 X 1.50 STD G5
	24	792887	792887	1	5/16-18 HX TH RIVET NUT
	25	352591	352591	1	60" REAR DISCHARGE FRONT ANGLE
	26	781567	781567	4	NT .50-13 HXZY NL
	27	788166	788166	4	ANTI SCALP WHEEL ASSEMBLY
	28	781708	N/A	4	CS .500-13 X 4.25 HX G5 ZN
	29	767962	N/A	8	FW .531 X 1.063 X .090 SAE HD ZN
	30	031997	N/A	4	ANTI-SCALP WHEEL
	31	053199	N/A	4	NT .500-13 HX JAM ZN

NOTES:

1. Includes items 28–31.
2. Service part deck includes decals, see "72" Rear Discharge Deck Decals" on page 9-6.

60" Rear Discharge Deck Assy—S/N 08010000—08080000



DEFLECTOR DETAIL

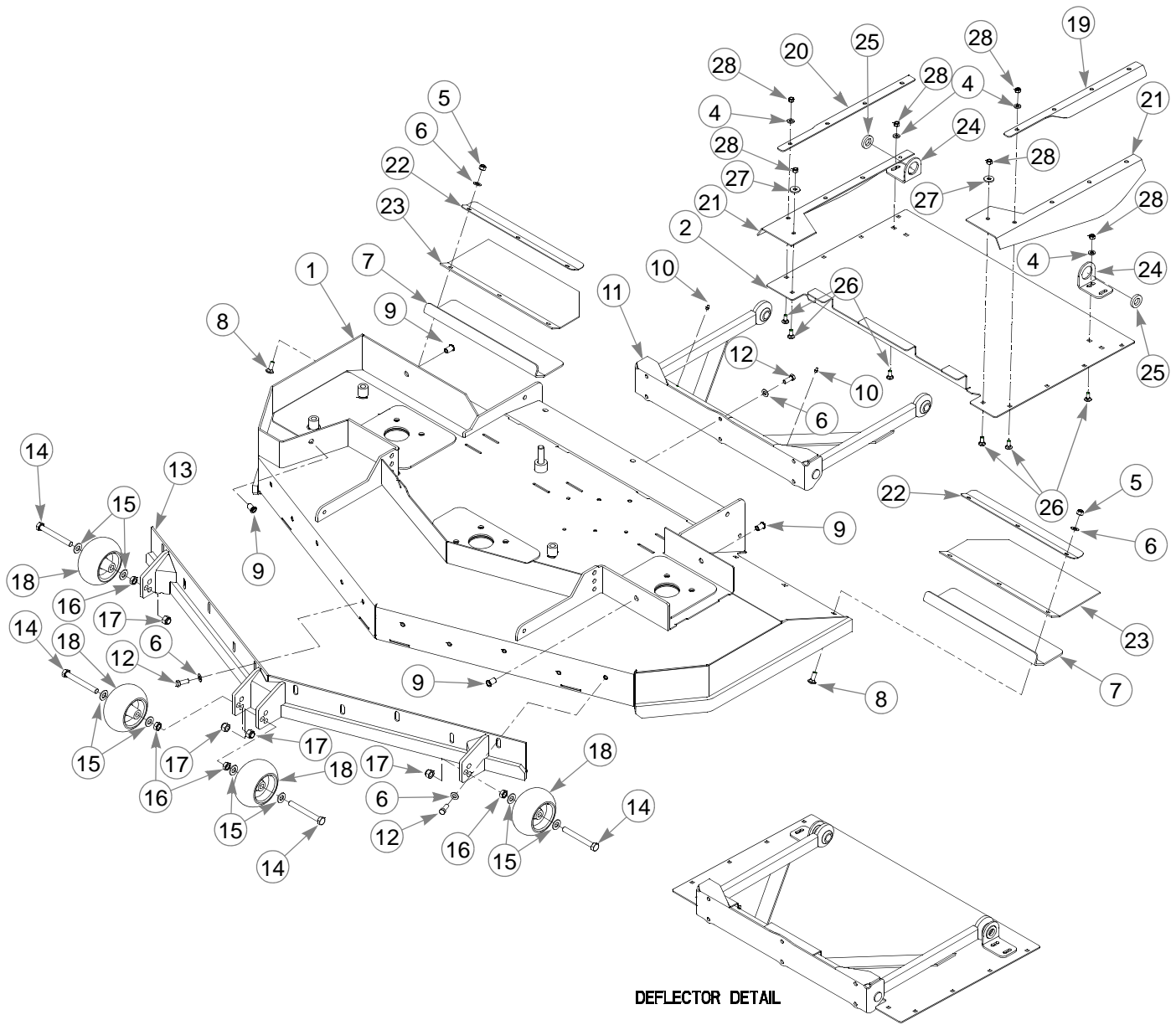
60" Rear Discharge Deck Assy—S/N 08010000–08080000

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
3 1	547398	351395	1	60" REAR DISCHARGE DECK
2	109484	109484	1	DISCHARGE SHIELD
3	768523	768523	10	FW .343 X .687 X .051/.080 HD ZN
4	086660	086660	6	NT .375-16 HX LK NY
5	767954	767954	26	FW .406 X .812 X .060 SAE HD ZN
6	710194	710194	6	CB .375-16 X 1.50 STD G5
7	808485	808485	4	5/16-18 THREAD RIVET NUT
8	015495	015495	2	STRAIGHT GREASE FITTING
9	349803	349803	1	PUSHER
10	036244	036244	20	CS .375-16 X 1.00 HX G5 ZN
11	352591	352591	1	60" REAR DISCHARGE FRONT ANGLE
12	781708	N/A	4	CS .500-13 X 4.25 HX G5 ZN
13	767962	N/A	8	FW .531 X 1.063 X .090 SAE HD ZN
14	053199	N/A	4	NT .500-13 HX JAM ZN
15	781567	781567	4	NT .50-13 HXZY NL
16	031997	N/A	4	ANTI-SCALP WHEEL
17	109486	109486	1	CLAMP ANGLE LS
18	109487	109487	1	CLAMP ANGLE RS
19	601483	601483	2	SIDE FLAP RUBBER
20	106716	106716	2	ANGLE, DISCHARGE CHUTE
21	600254	600254	2	RD REAR FLAP
22	351676	351676	2	DECK STIFFENER ANGLE
23	109482	109482	1	CHUTE BRACKET RS
24	109483	109483	1	CHUTE BRACKET LS
25	778399	778399	2	FW .781 X 1.375 X .250 ZNYC
26	016253	016253	4	CB .312-18 X .750 FUL ZN
27	058776	058776	10	NT .312-18 HXZY NL
28	107927	107927	2	BAFFLE INNER 60" RD
29	037887	037887	6	CB .312-18 X 1.000 FUL Z
30	109485	109485	1	GUARD MTG ANGLE
1 2	788166	788166	4	ANTI SCALP WHEEL ASSEMBLY

NOTES:

1. Factory assembled in top hole for shipping purposes.
2. Includes Items 12 through 14 and 16.
3. Service part deck includes idler components from "60" Rear Disch. Deck Pulley Assy—S/N 08080000 & Higher" on page 7-38 and decals, see "72" Rear Discharge Deck Decals" on page 9-6.

60" Rear Discharge Deck Assy—S/N Prior To 08010000



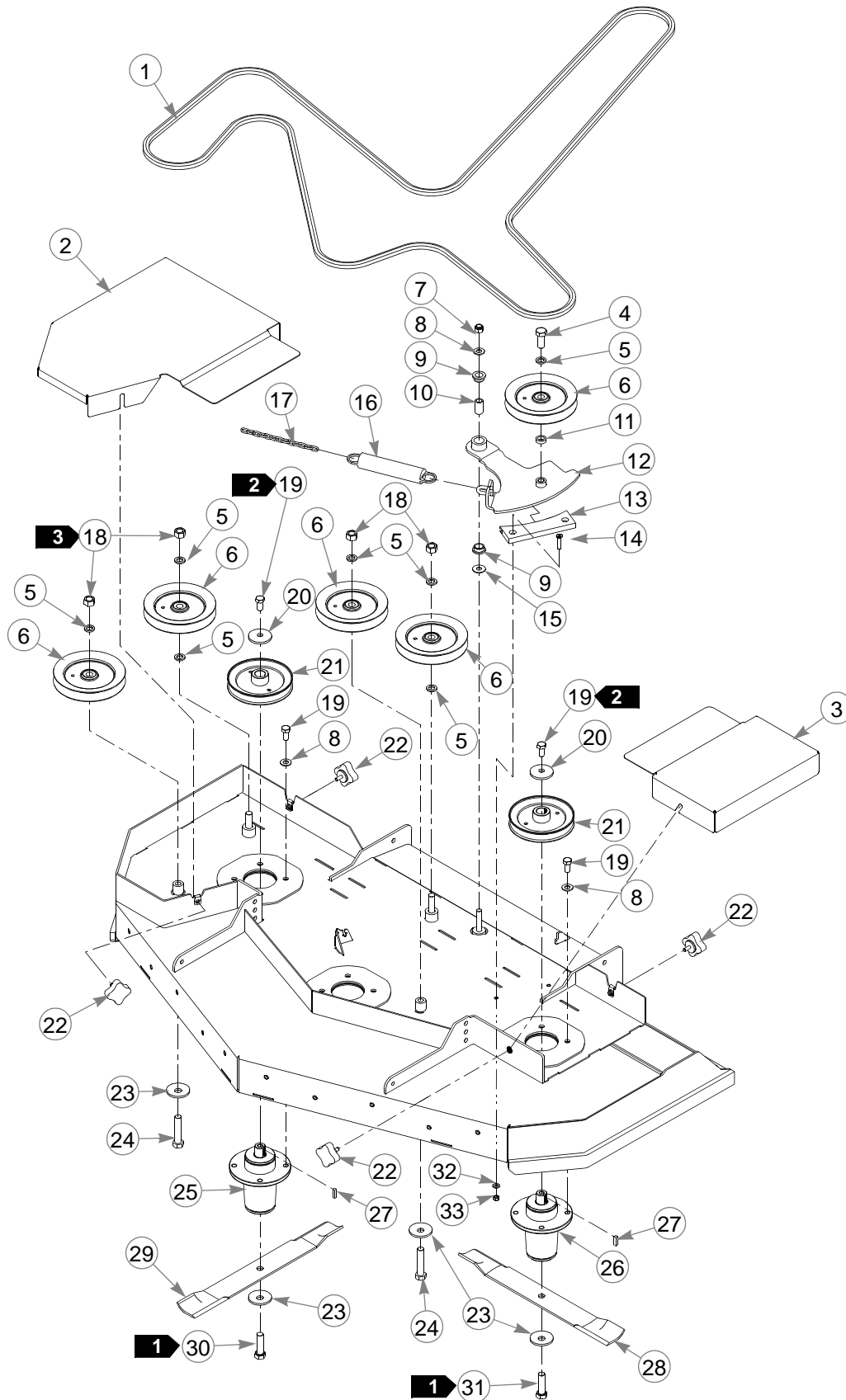
60" Rear Discharge Deck Assy—S/N Prior To 08010000

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
3 1	547398	351395	1	60" REAR DISCHARGE DECK
2	106781	106781	1	RD DECK GUARD
3	034280	034280	3	CS .312-18 X .750 HX G5
4	768523	768523	15	FW .343 X .687 X .051/.080 HD ZN
5	086660	086660	10	NT .375-16 HX LK NY
6	767954	767954	22	FW .406 X .812 X .060 SAE HD ZN
7	351676	351676	2	DECK STIFFENER ANGLE
8	025395	025395	6	CB .375-16 X 1.00 STD CD
9	N/A	808485	4	5/16-18 THREAD RIVET NUT
10	015495	015495	2	STRAIGHT GREASE FITTING
11	349803	349803	1	PUSHER
12	036244	036244	16	CS .375-16 X 1.00 HX G5 ZN
13	352591	352591	1	60" REAR DISCHARGE FRONT ANGLE
14	781708	N/A	4	CS .500-13 X 4.25 HX G5 ZN
15	767962	N/A	8	FW .531 X 1.063 X .090 SAE HD ZN
16	053199	N/A	4	NT .500-13 HX JAM ZN
17	781567	781567	4	NT .50-13 HXZY NL
18	031997	N/A	4	ANTI-SCALP WHEEL
19	106724	106724	1	RD DEFLECTOR CLAMP LS ANGLE
20	106666	106666	1	RD DEFLECTOR CLAMP RS ANGLE
21	600262	600262	2	RD SIDE FLAP
22	106716	106716	2	ANGLE, DISCHARGE CHUTE
23	600254	600254	2	RD REAR FLAP
24	106591	106591	2	RD DECK GUARD BRACKET
25	778399	778399	2	FW .781 X 1.375 X .250 ZNYC
26	016253	016253	14	CB .312-18 X .750 FUL ZN
27	712927	712927	2	FW .344 X 1.00 X .12 HRD ZN
28	058776	058776	14	NT .312-18 HXZY NL
1 2	788166	788166	4	ANTI SCALP WHEEL ASSEMBLY

NOTES:

1. Factory assembled in top hole for shipping purposes.
2. Includes Items 14 through 16 and 18.
3. Service part deck includes idler components from "60" Rear Disch. Deck Pulley Assy—S/N 08080000 & Higher" on page 7-38 and decals, see "72" Rear Discharge Deck Decals" on page 9-6.

60" Rear Disch. Deck Pulley Assy—S/N 08080000 & Higher



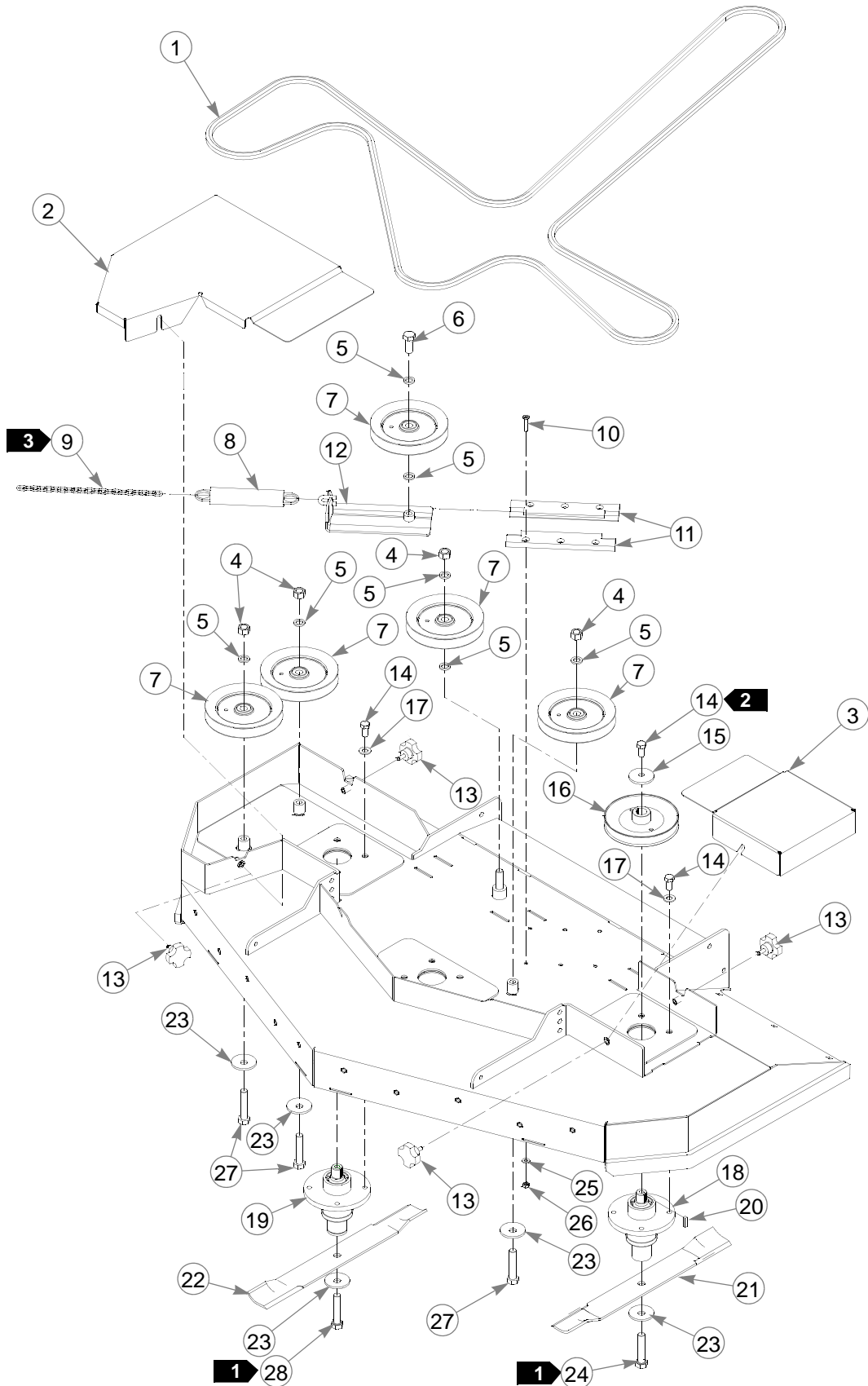
60" Rear Disch. Deck Pulley Assy—S/N 08080000 & Higher

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION	
1	795781	795781	1	60" REAR DISCHARGE DECK BELT	
2	110411	110411	1	PULLEY COVER, RH,60"	
3	110412	110412	1	PULLEY COVER, LH,60"	
4	794446	794446	1	CS .625-11X1.500 HX G5 Z	
5	028118	028118	7	FW .62 X 1.00 X .134 ZN	
6	796714	796714	5	6" HB IDLER PULLEY RD	
7	781567	781567	1	NT .500-13 HX G8 ZY NL	
8	767962	767962	13	FW .531 X 1.063 X .090 SAE HD ZN	
9	770867	770867	2	BUSHING, PLAS .750X1(FS)	
10	109549	109549	1	BUSHING, IDLER PIVOT	
11	600296	600296	1	DECK IDLER SPACER	
12	109948	109948	1	IDLER ARM W/A	
13	601779	601779	1	IDLER SLIDE UHMW	
14	797910	797910	2	CS .312-18X1.50FLT SH ZY	
15	704759	704759	1	FW .500X 1.250X.075 ZNY	
16	781302	781302	1	IDLER SPRING	
17	259812	059931	1	DECK LIFT CHAIN (13 LINKS)	
18	016972	016972	4	NT .625-11 HX G5 ZNYC	
19	016527	016527	15	CS .500-13 X 1.00 HX G5 ZN	
20	752386	752386	3	FW .510 X 1.75 X .18 ZN	
21	770842	770842	3	B-SECTION PULLEY	
22	792002	792002	4	5/16-18 X 3/4" MALE KNOB	
23	782474	782474	5	CW .631 X 2.250 X .187 PNT	
24	783738	783738	2	CS .625-11X3.00 FULL HX G5 ZN	
6	25	601819	601819	1 REAR DISCHARGE DECK SPINDLE ASSEMBLY	
5	26	796680X	N/A	1 REAR DISCHARGE DECK SPINDLE ASSEMBLY	
6	27	601630	601630	2 DECK SPINDLE ASSY	
4	28	796235X	N/A	2 DECK SPINDLE ASSY	
	29	212472	212472	3 KEY 1/4 SQ X 1.00 LONG	
	30	600901	600901	2 BLADE, F20.50"-L-F-CW	
	31	795633	795633	1 BLADE, F20.50"-L-F-CCW	
6	32	601999	601999	1 CS .625-11 X 2.25 LH H5Y	
5	33	796722	N/A	1 CS .625-11 X 3.00 LH HX G	
6		601983	601983	2 CS .625-11 X 2.25 HXG5ZY	
4		029934	N/A	2 CS .625-11 X 3.00 HX G5 ZNYC	
		32	768523	768523	1 FW .343X.687X.051/.080H
		33	058776	058776	1 NT .312-18 HXZY NL

NOTES:

1. Torque to 118 ft. lbs.
2. Torque to 65-75 ft. lbs.
3. See "72" & 60" Rear Discharge Belt Routing and Tensioning" on page 8-6 for belt tensioning.
4. Used on mowers with serial numbers prior to 09110001. See "Spindle Assembly—796235" on page 7-42 for breakdown.
5. Used on mowers with serial numbers prior to 09110001. See "Spindle Assembly—796680" on page 7-43 for breakdown.
6. Used on mowers with serial numbers higher than 09110001.

60" Rear Disch. Deck Pulley Assy—S/N 08010000–08080000



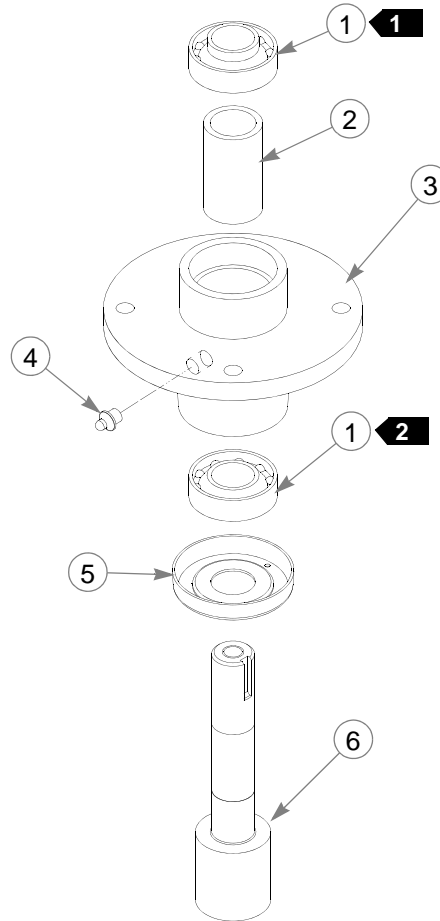
60" Rear Disch. Deck Pulley Assy—S/N 08010000–08080000

ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	795781	795781	1	60" REAR DISCHARGE DECK BELT
2	351924	351924	1	RIGHT 60" REAR DISCHARGE PULLEY COVER
3	351932	351932	1	LEFT 60" REAR DISCHARGE PULLEY COVER
4	016972	016972	4	NT .625-11 HX G5 ZNYC
5	028118	028118	7	FW .62 X 1.00 X .134 ZN
6	794446	794446	1	CS .625-11 X 1.750 HX G5
7	796714	796714	5	6" HB IDLER PULLEY RD
8	781302	781302	1	IDLER SPRING
9	373191	059931	1	SIDE MOUNT CHAIN (21 LINKS)
10	797910	797910	6	CS .312-18 X 1.250 FLT SH ZNYC
6	601434	601434	2	UHMW IDLER SLIDE
12	350884	350884	1	REAR DISCHARGE DECK IDLER
13	792002	792002	4	5/16-18 X 3/4" MALE KNOB
14	016527	016527	15	CS .500-13 X 1.00 HX G5 ZN
15	752386	752386	3	FW .510 X 1.75 X .18 ZN
16	770842	770842	3	B-SECTION PULLEY
17	767962	767962	12	FW .531 X 1.063 X .090 SAE HD ZN
4	796235X	796235	2	SPINDLE HOUSING ASSEMBLY
5	796680X	796680	1	REAR DISCHARGE DECK SPINDLE ASSEMBLY
20	212472	212472	3	KEY 1/4 SQ X 1.00 LONG
21	600901	600901	2	BLADE, F20.50"-L-F-CW
22	795633	795633	1	BLADE, F20.50"-L-F-CCW
23	782474	782474	6	CW .631 X 2.250 X .187 PNT
24	029934	029934	2	CS .625-11 X 3.00 HX G5 ZNYC
25	768523	768523	4	FW .343 X .687 X .051/.080 HD ZN
26	058776	058776	4	NT .312-18 HXZY NL
27	783738	783738	3	CS .625-11X3.00 FULL HX G5 ZN
28	796722	796722	1	CS .625-11 X 3.00 LH HX G

NOTES:

1. Torque to 118 ft. lbs.
2. Torque to 65-75 ft. lbs.
3. See "72" & 60" Rear Disch. Belt Routing and Tensioning" on page 8-7 for belt tensioning.
4. See "Spindle Assembly—796235" on page 7-42 for breakdown.
5. See "Spindle Assembly—796680" on page 7-43 for breakdown.
6. Item 11 (601434) replaces idler slide components 600171, 600189 and 786335 found on mowers with serial numbers prior to 08010000.

Spindle Assembly—796235

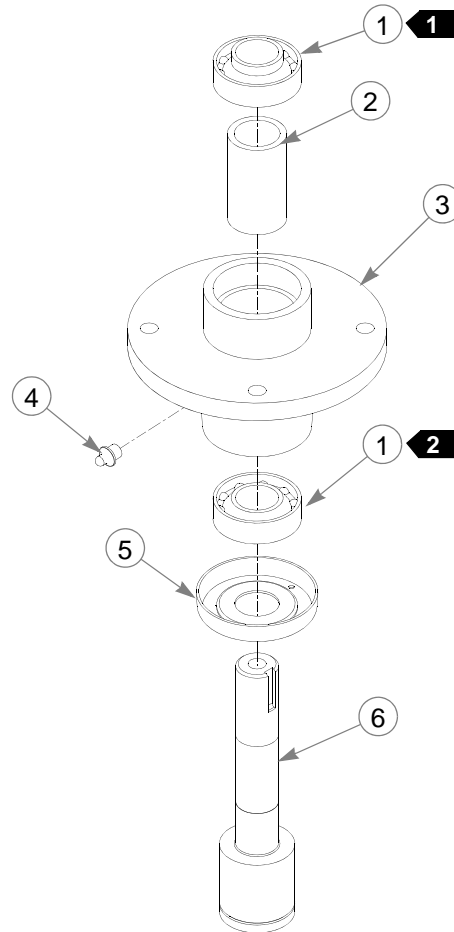


ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	077123	N/A	2	BEARING W/O COLLAR
2	766204	N/A	1	BLADE SPINDLE BUSHING
3	034843	N/A	1	CAST SPINDLE HOUSING
4	012005	N/A	1	GREASE FITTING
5	600893	N/A	1	BEARING DUST COVER
6	796227	N/A	1	SADDLELESS SPINDLE SHAFT

NOTES:

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

Spindle Assembly—796680



ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	077123	N/A	2	BEARING W/O COLLAR
2	766204	N/A	1	BLADE SPINDLE BUSHING
3	034843	N/A	1	CAST SPINDLE HOUSING
4	012005	N/A	1	GREASE FITTING
5	600893	N/A	1	BEARING DUST COVER
6	796698	N/A	1	SPINDLE SHAFT

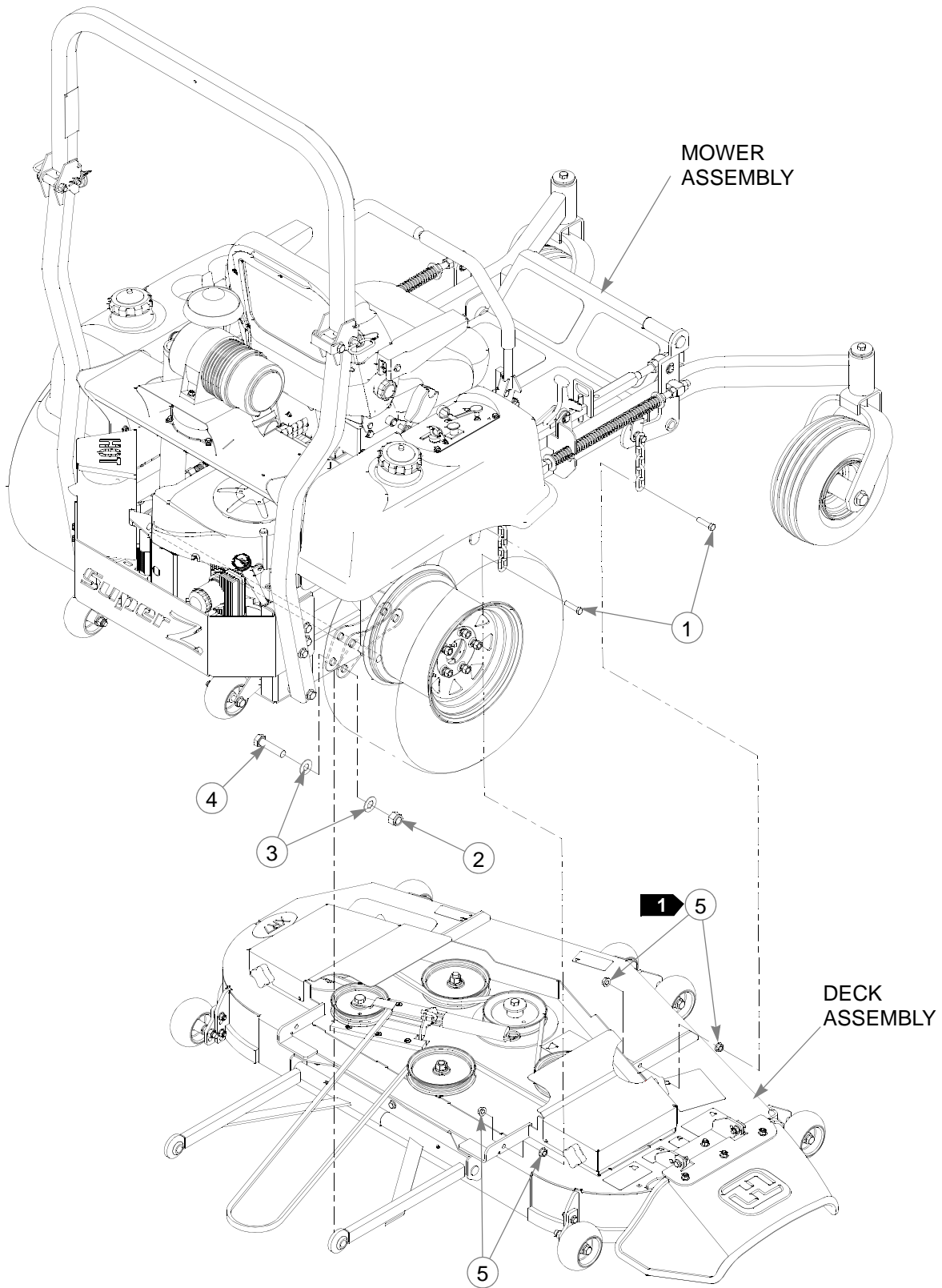
NOTES:

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

Section 8

Deck Installation	8-2
72", 66", & 54" Side Discharge Belt Routing and Tensioning	8-4
60" Side Discharge Belt Routing and Tensioning	8-5
72" & 60" Rear Discharge Belt Routing and Tensioning	8-6
72" & 60" Rear Disch. Belt Routing and Tensioning	8-7
Seat Installation—S/N Higher Than 08010004	8-8
Seat Installation—S/N Prior To 08010004.	8-10
ROPS Installation	8-12

Deck Installation

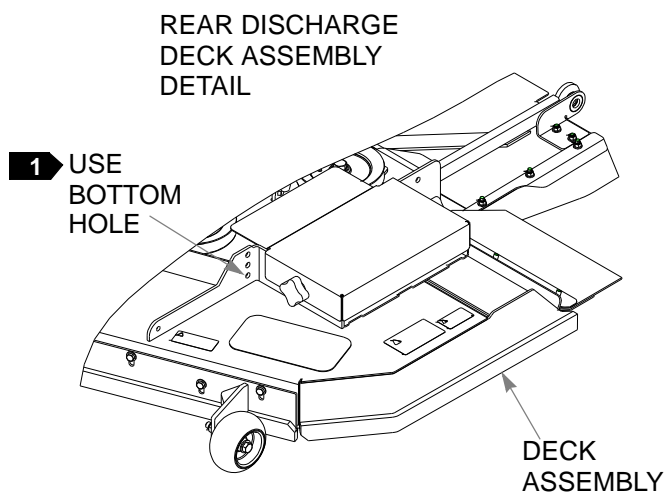


Deck Installation

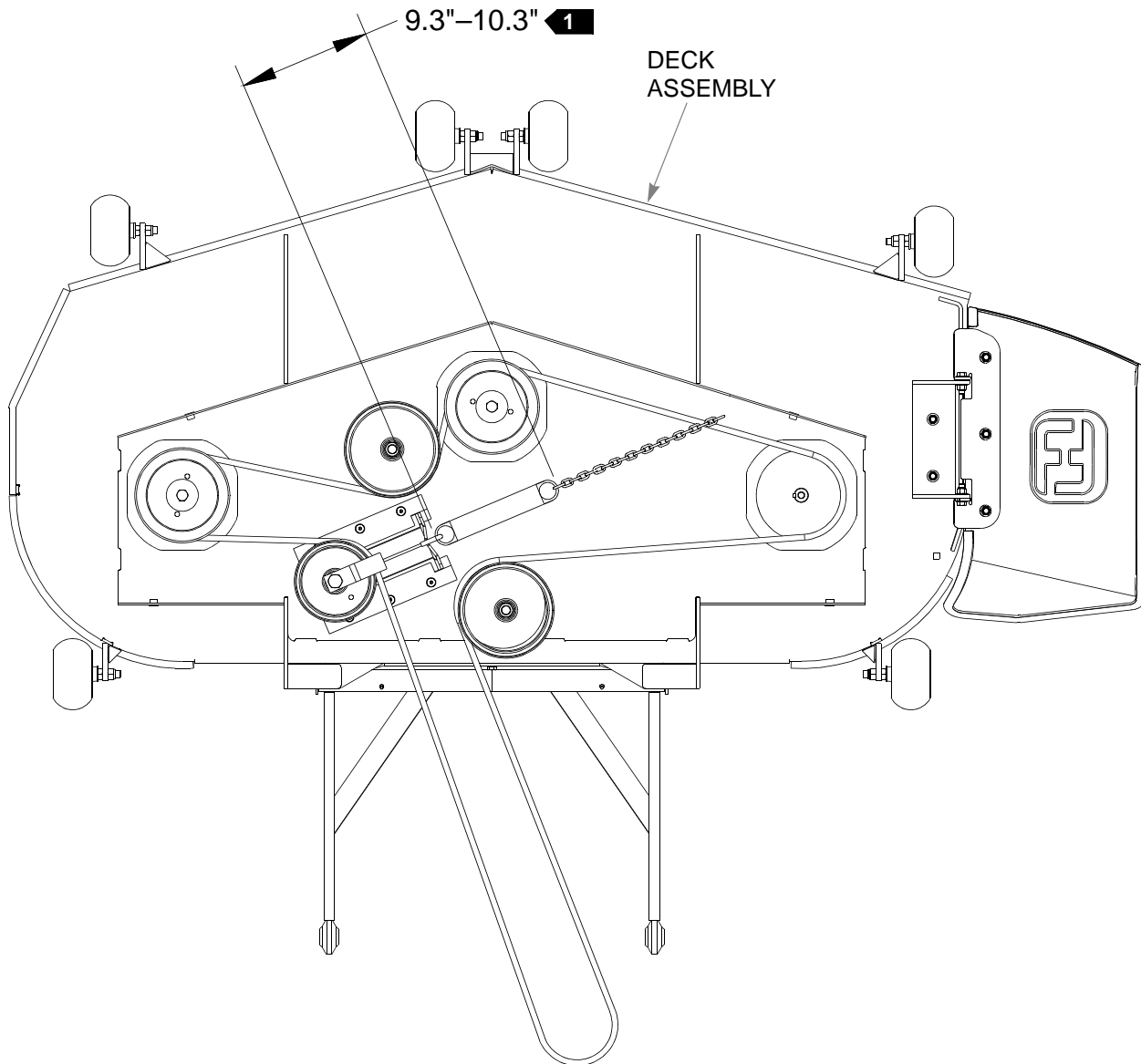
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	055749	055749	4	CS .437 -14 X 1.750 HX G5 ZN
2	061101	061101	2	NT .750 -10 HX NL ZN
3	025296	025296	4	FW .760 X 1.625 X .08 ZN
4	051169	051169	2	CS .750 -10 X 3.000 HX G5 ZN
5	704643	704643	8	NT .437 -14 HX FLG ZN

NOTES:

1. Install front deck hanger chains in lower holes only.



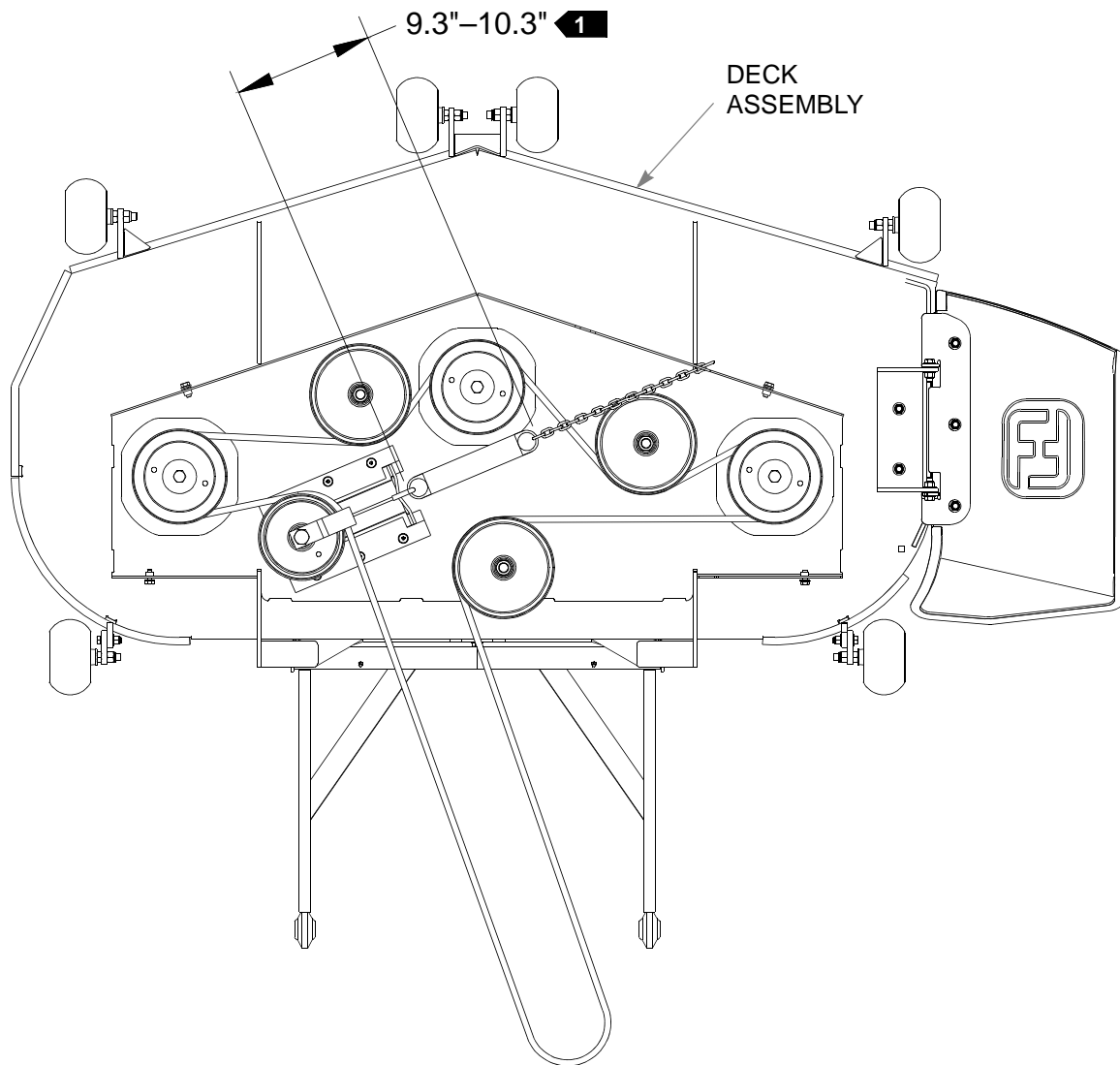
72", 66", & 54" Side Discharge Belt Routing and Tensioning



NOTES:

1. Spring length after tensioning belt. Measure spring from outside of hook to outside of hook with deck set at leveling height.
2. Route belt as shown.

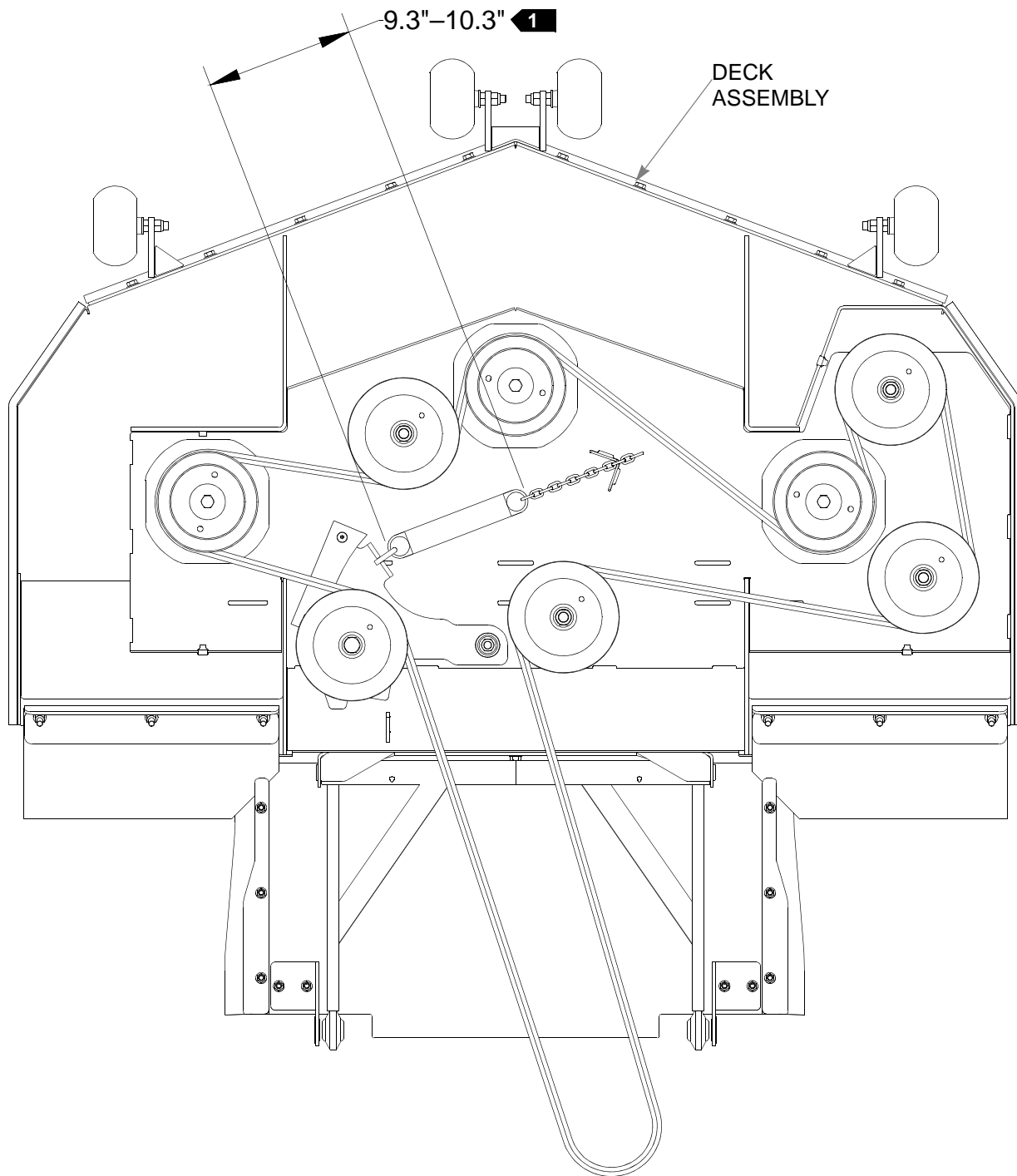
60" Side Discharge Belt Routing and Tensioning



NOTES:

1. Spring length after tensioning belt. Measure spring from outside of hook to outside of hook with deck set at leveling height.
2. Route belt as shown.

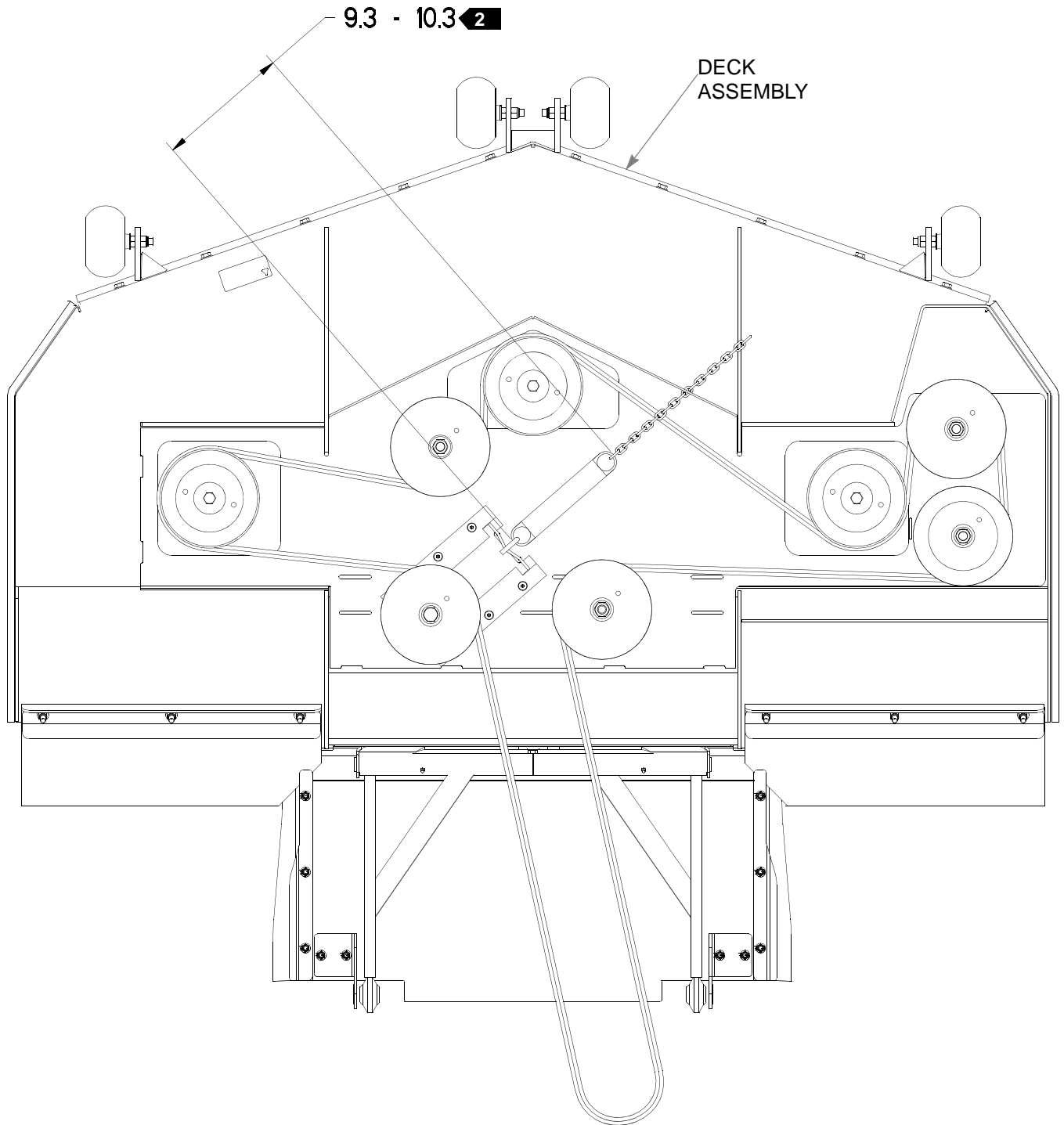
72" & 60" Rear Discharge Belt Routing and Tensioning **3**



NOTES:

1. Spring length after tensioning belt. Measure spring from outside of hook to outside of hook with deck set at leveling height.
2. Route belt as shown.
3. For mowers with serial numbers higher than 08080000.

72" & 60" Rear Disch. Belt Routing and Tensioning **1**

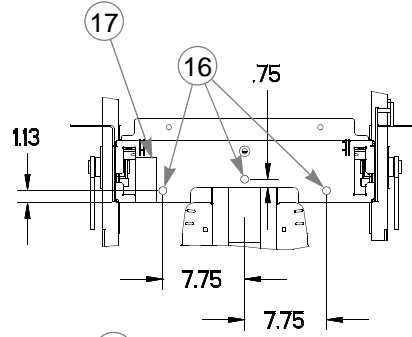
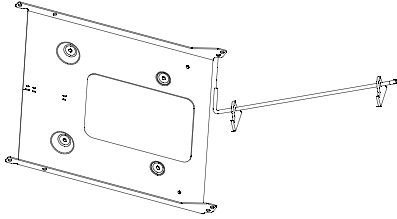


NOTES:

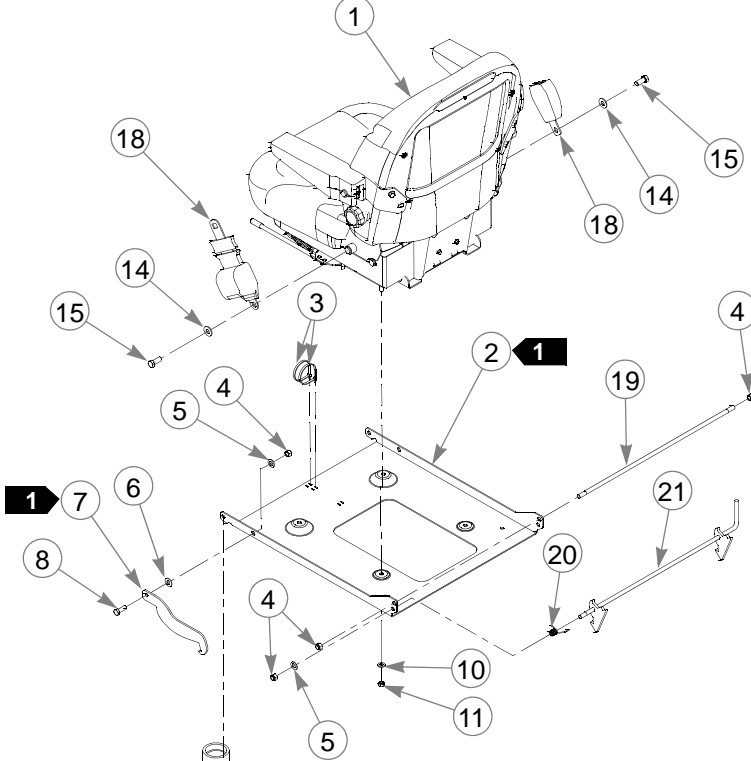
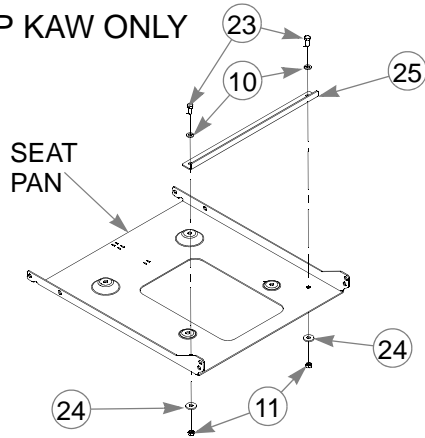
1. For mowers with serial numbers prior to 08080000.
2. Spring length after tensioning belt. Measure spring from outside of hook to outside of hook with deck set at leveling height.
3. Route belt as shown.

Seat Installation—S/N Higher Than 08010004

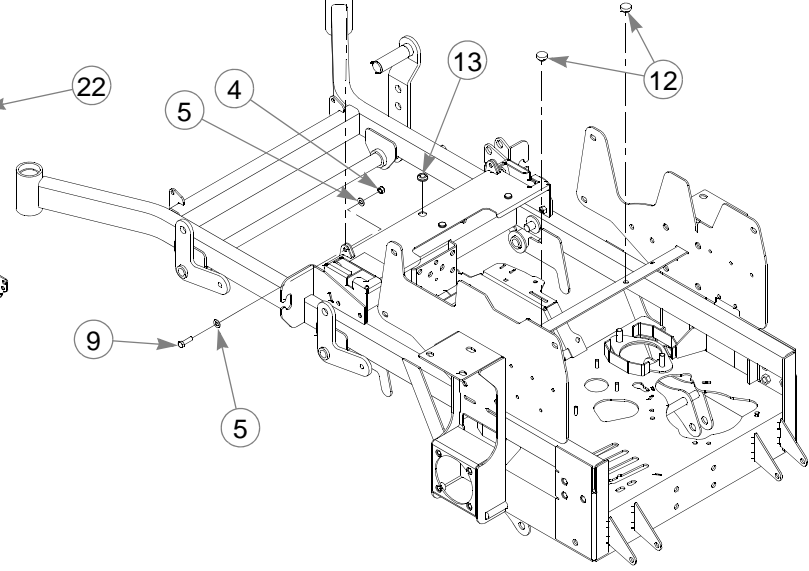
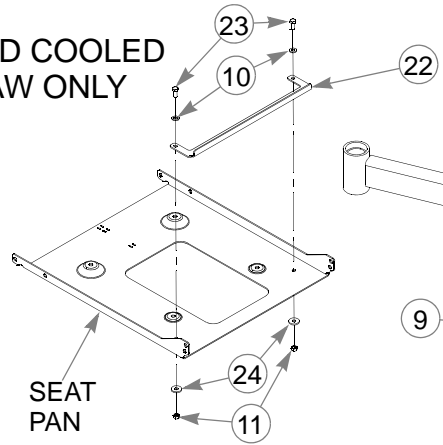
LATCH W/A DETAIL



31HP KAW ONLY



LIQUID COOLED KAW ONLY



Seat Installation—S/N Higher Than 08010004

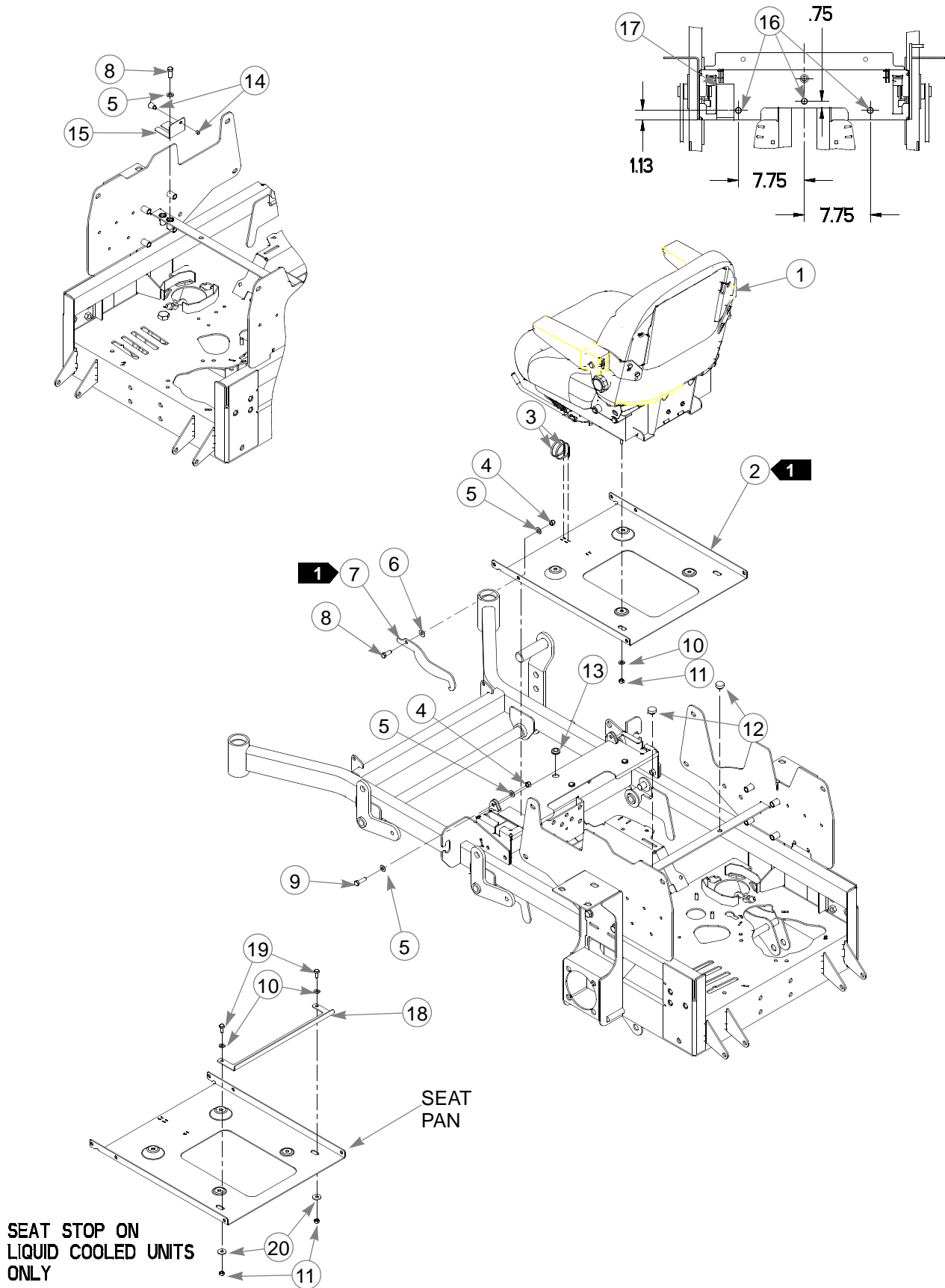
INDEX NO.	SERVICES PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	792051	792051	1	MICHIGAN SUSPENSION SEAT
2	109307	109307	1	SEAT PAN
3	000331	000331	2	BLACK CABLE TIE
4	086660	086660	6	NT .375-16 HX LK NY
5	767954	767954	6	FW .406 X .812 X .060 SAE HD ZN
6	724716	724716	1	FIBER WASHER
7	350421	350421	1	SEAT PAN STOP
8	036244	036244	1	CS .375-16 X 1.000 HX G5 ZN
9	052860	052860	2	CS .375-16 X1.250 HX G5 ZN
10	768523	768523	4	FW .343 X .687 X .051/.080 HD ZN/Y
	768523	768523	6	FW .343 X .687 X .051/.080 HD ZN/Y (LC KAW ONLY)
11	034272	034272	4	NT .312-18 HX G5 ZN
	034272	034272	6	NT .312-18 HX G5 ZN (LC KAW ONLY)
12	781880	781880	2	BUMPER
13	080358	080358	1	GM .50 X 1.00 X .75 X .12 GROMMET
14	017129	017129	2	FW .440 X 1.000 X.083 ZNY
15	797076	797076	2	CS .437-20 X1.250 G5 ZNY
16	781617	781617	3	RUBBER BUMPER
17	722199	722199	1	2" WIDE SCOTCH POLYURETHANE 5.55" LONG
18	601444	601444	1	SEAT BELT
19	109283	109283	1	SEAT LATCH STOP ROD
20	783910	783910	1	ROPS LATCH TORSION SPRING
21	109274	109274	1	LATCH W/A
22	104521	104521	1	SEAT STOP 26HP (LC KAW ONLY)
23	034280	034280	2	CS .312-18 X .750 HX G5 (LC KAW ONLY)
24	712927	712927	2	FW .344 X 1.00 X .12 HRD ZN (LC KAW ONLY)
25	108851	108851	1	SEAT STOP 31HP (KAW ONLY)

NOTES:

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

<u>PART NO.</u>	<u>DESCRIPTION</u>
793315	SEAT SWITCH
793307	SLIDE KIT
793323	KNOB KIT
793265	ONE ARMREST (SQUARE STYLE W/O BRACKET)
797480	ONE ARMREST (ROUND STYLY W/O BRACKET)
793273	ARMREST STOP ASSY
793281	BACK CUSHION KIT
793299	SEAT CUSHION KIT
797571	SEAT BACK

Seat Installation—S/N Prior To 08010004



Seat Installation—S/N Prior To 08010004

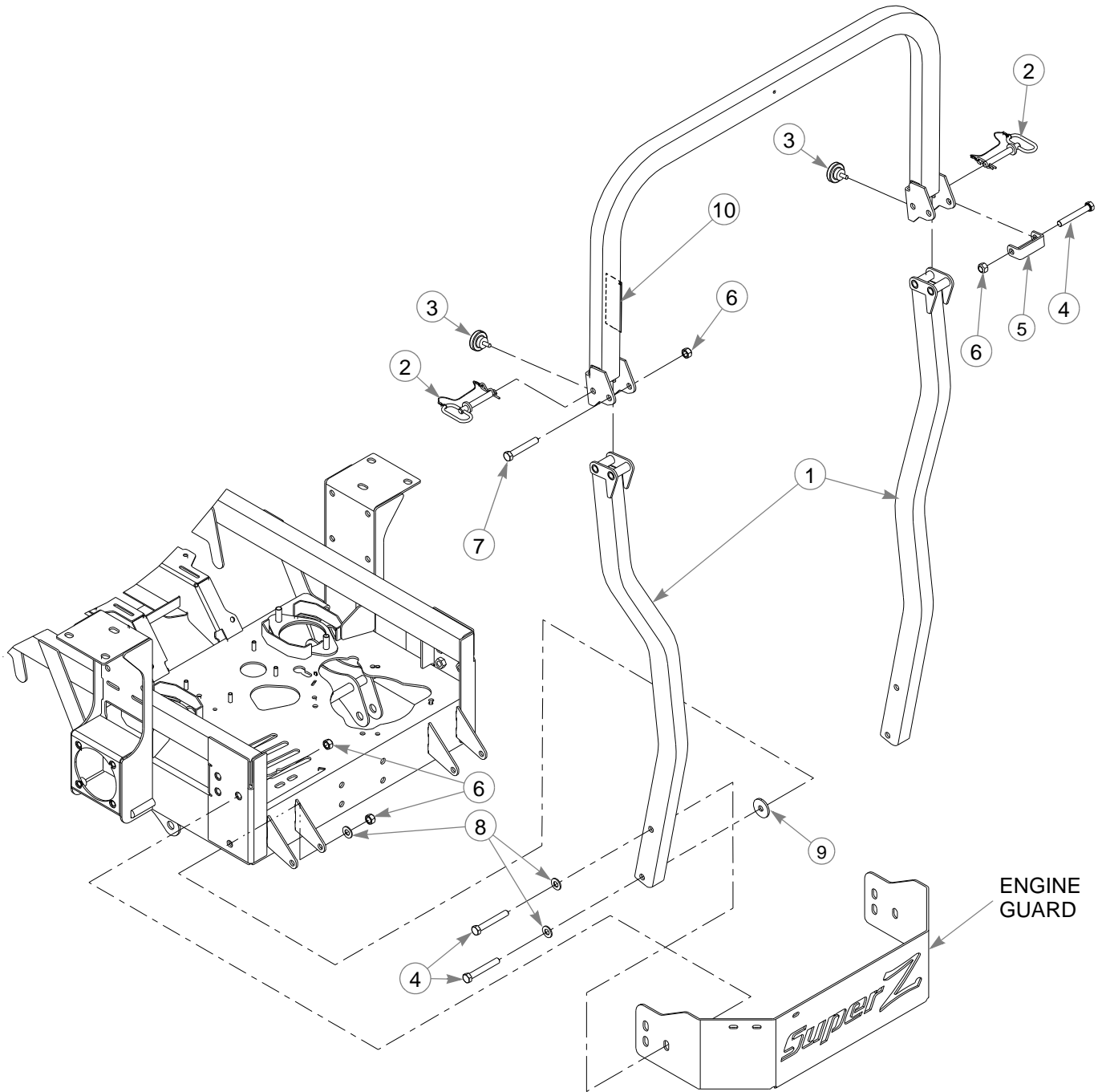
INDEX NO.	SERVICES PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	792051	792051	1	MICHIGAN SUSPENSION SEAT
2	350041	350041	1	SEAT PAN
3	000331	000331	2	BLACK CABLE TIE
4	086660	086660	3	NT .375-16 HX LK NY
5	767954	767954	7	FW .406 X .812 X .060 SAE HD ZN
6	724716	724716	1	FIBER WASHER
7	350421	350421	1	SEAT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

NOTES:

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

<u>PART NO.</u>	<u>DESCRIPTION</u>
793315	SEAT SWITCH
793307	SLIDE KIT
793323	KNOB KIT
793265	ONE ARMREST (SQUARE STYLE W/O BRACKET)
797480	ONE ARMREST (ROUND STYLY W/O BRACKET)
793273	ARMREST STOP ASSY
793281	BACK CUSHION KIT
793299	SEAT CUSHION KIT
797571	SEAT BACK

ROPS Installation



ROPS Installation

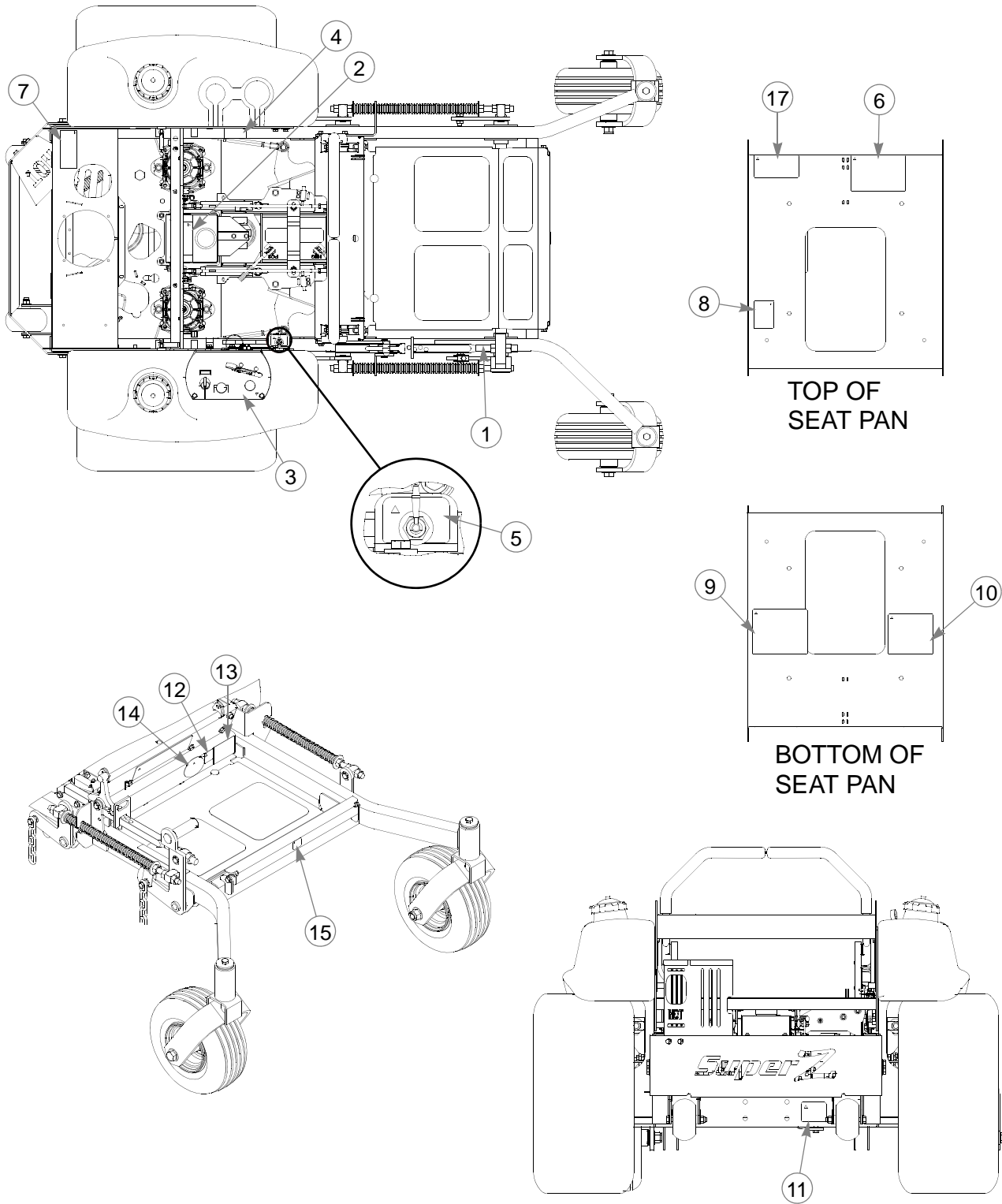
ITEM NO.	SERVICE PART NO.	MFG. PART NO.	QTY	DESCRIPTION
1	601440	N/A	1	ROPS
2	601471	N/A	2	LYNCH PIN W/ LANYARD
3	601470	N/A	2	KNOB
4	061812	N/A	5	CS .500 -13 X 3.500 HX G5
5	601472	N/A	1	ROPS STOP
6	023317	N/A	6	NT .500 -13 X UNT LK G5 ZN
7	077859	N/A	1	CS .500 -13 X 3.250 HX G5
8	767962	N/A	6	FW .531 X 1.063 X .090 SAE
9	601473	N/A	2	SPACER WASHER
10	601560	N/A		ROPS WARNING DECAL

NOTES:

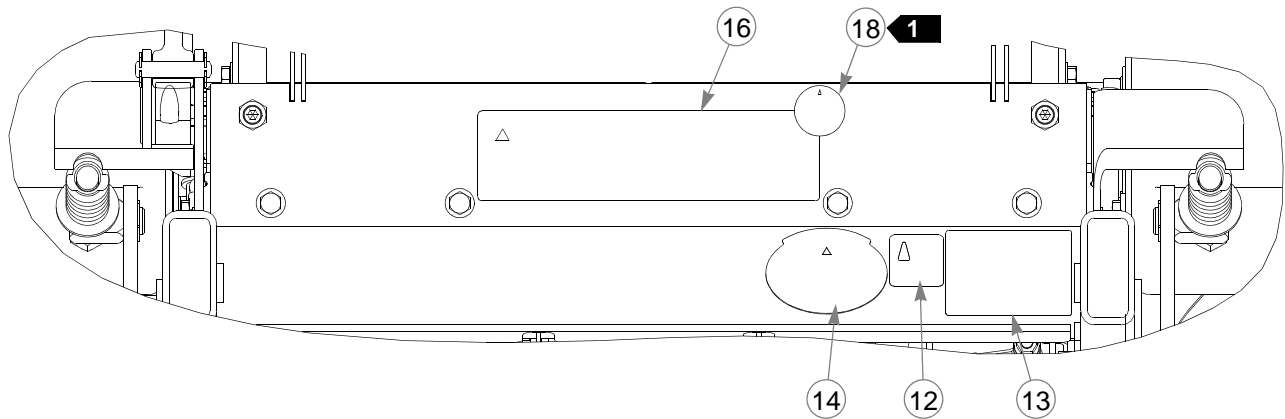
Section 9

Mower Decals	9-2
72", 66" & 60" Side Discharge Deck Decals(XR7).....	9-4
54" Side Discharge Deck Decals (XR7)	9-5
72" Rear Discharge Deck Decals	9-6
60" Rear Discharge Deck Decals	9-7

Mower Decals



Mower Decals

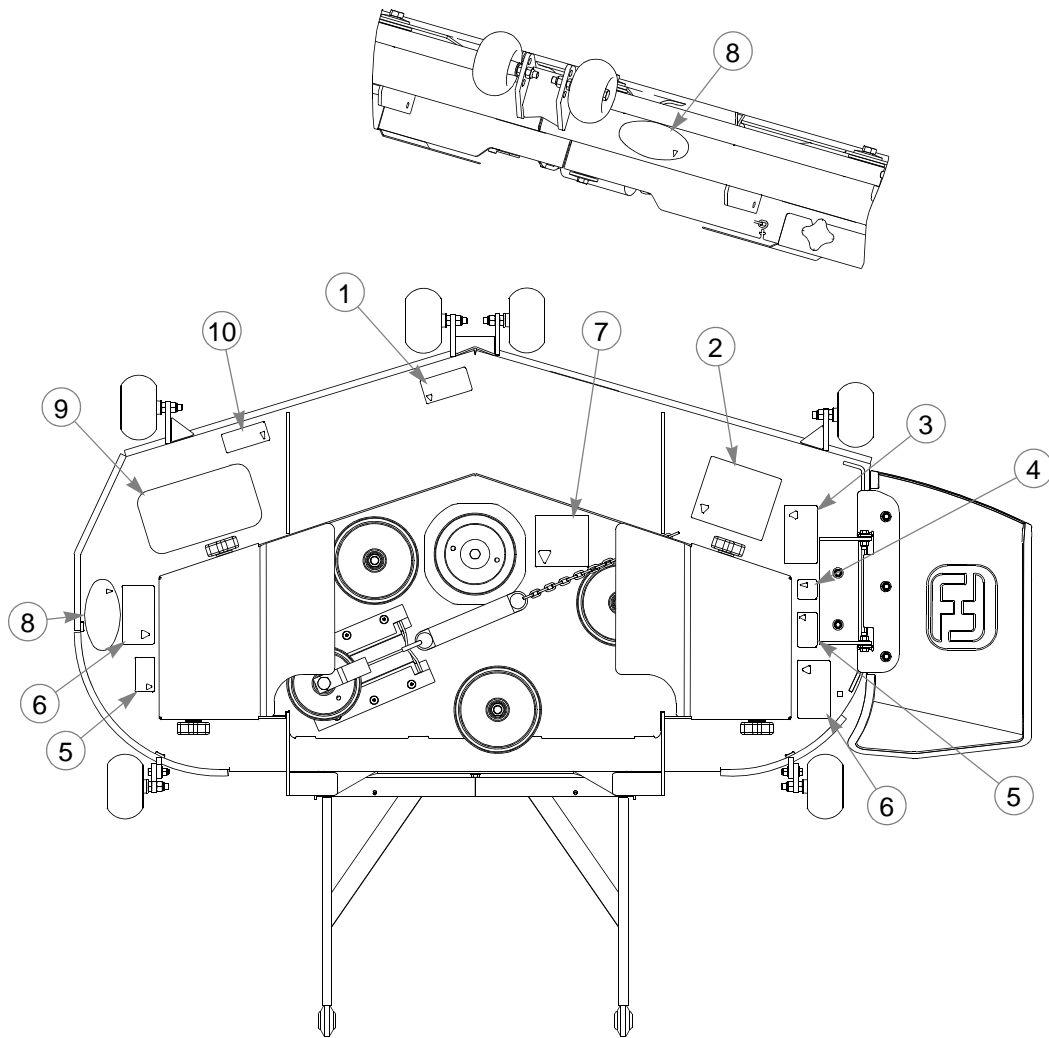


INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	781427	781427	1	DECK HEIGHT INDICATOR DECAL
2	779280	779280	1	HOT & HYDRAULIC OIL DECAL
3	784702	784702	1	INSTRUMENT PANEL DECAL (SEPARATE CHOKE)
	789503	789503	1	INSTRUMENT PANEL DECAL (LC)
	789586	789586	1	EFI Z DASH PANEL DECAL
4	727008	727008	1	HYD PRESSURE DECAL
5	791830	791830	1	FUEL INDICATOR DECAL
	791822	791822	1	FUEL INDICATOR-EFI DECAL
6	782136	782136	1	Z OPERATION DECAL
7	788968	788968	1	ENGINE COMPARTMENT DECAL
8	785188	785188	1	Z ARMREST WARNING DECAL
9	782128	782128	1	Z SERVICE DECAL
10	727016	727016	1	BATTERY DECAL
11	771436	771436	1	STABILIZER DECAL
12	727172	727172	1	MADE IN USA DECAL
13	N/A	083279	1	TURF PROD SERIAL NO PLATE
14	782573	782573	1	FIRST ZERO TURN DECAL
15	793588	793588	1	HUSTLER NAME PLATE
16	782615	782615	1	SUPER Z ID DECAL
17	600899	600899	1	PUMP BELT WARNING DECAL
18	601901	601901	1	HIGH TORQUE DECAL

NOTES:

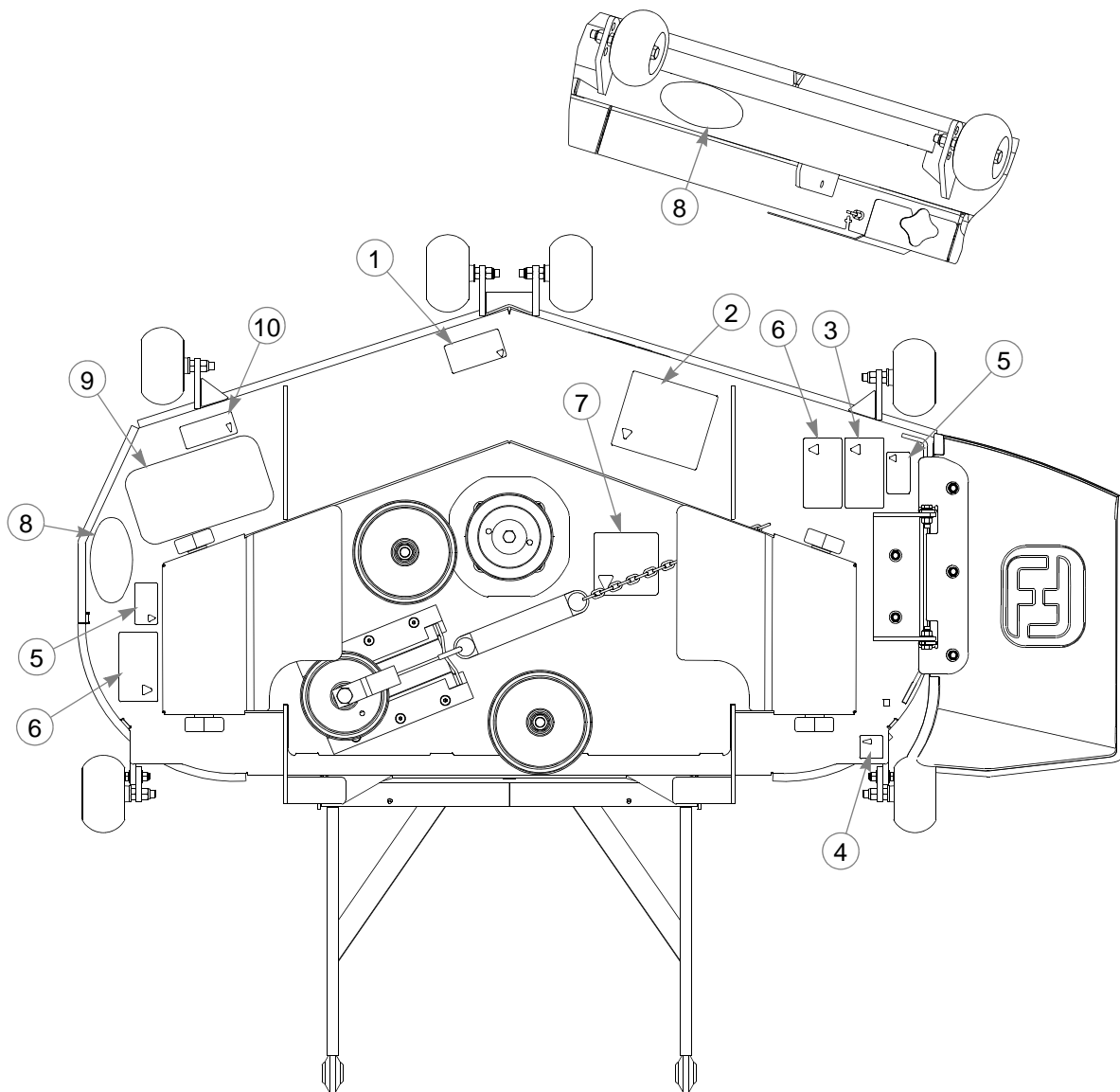
1. Used on High Torque (HT) models only.

72", 66" & 60" Side Discharge Deck Decals(XR7)



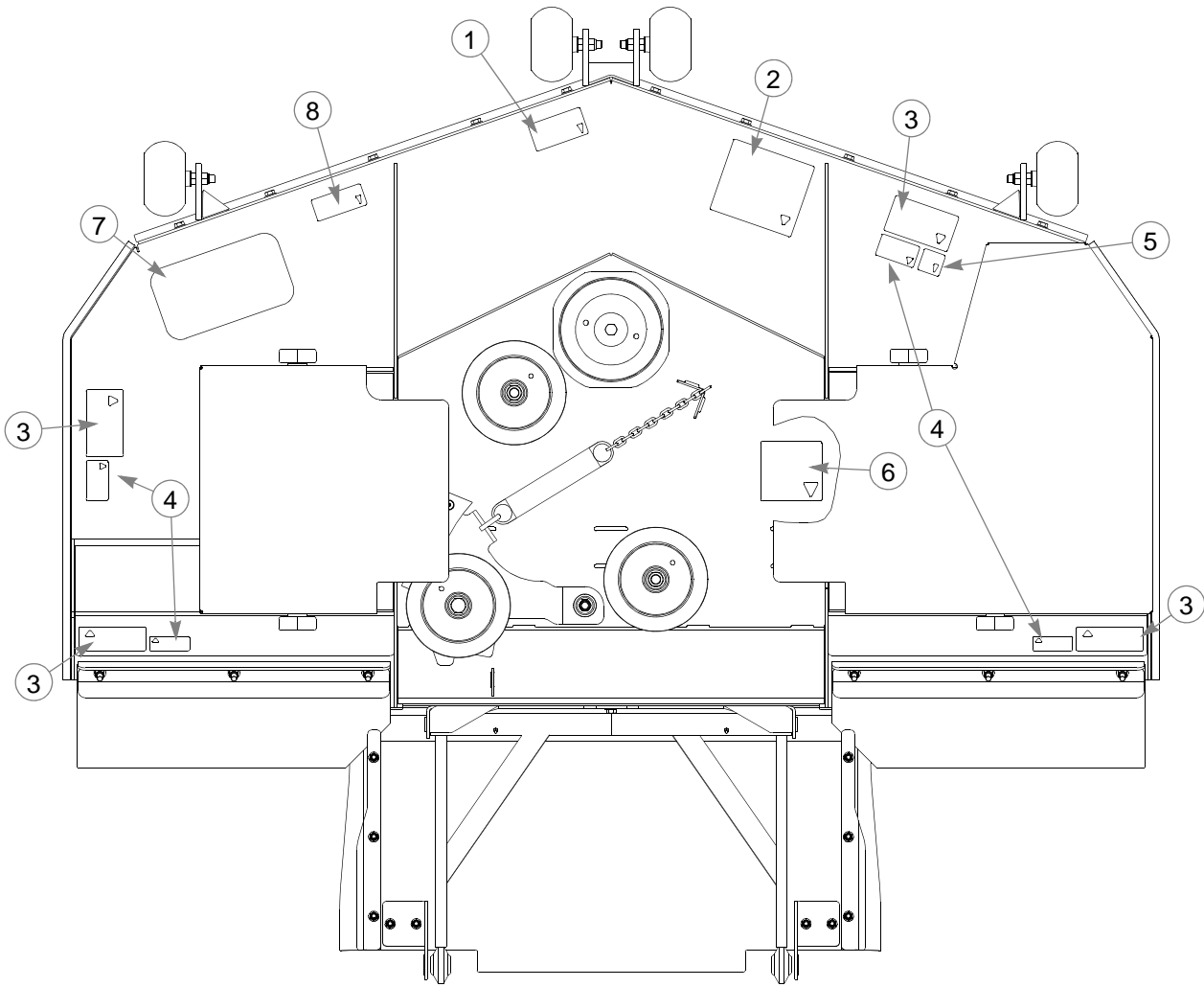
INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	786285	786285	1	72" SIDE DISCHARGE DECK ID DECAL
	799189	799189	1	66" SIDE DISCHARGE DECK ID DECAL
	786277	786277	1	60" SIDE DISCHARGE DECK ID DECAL
2	760637	760637	1	MOWER DECK QUICK REFERENCE DECAL
3	727420	727420	1	DEFLECTOR SHIELD DECAL
4	727172	727172	1	"MADE IN U.S.A." DECAL
5	727453	727453	2	BELT & PULLEY DECAL
6	727438	727438	2	WHIRLING BLADES DECAL
7	799395	799395	1	BELT ROUTING DECAL (60" DECK ONLY)
	781419	781419	1	BELT ROUTING DECAL (72", 66", & 54" DECKS)
8	799353	799353	2	DECK XR7 ID DECAL
9	359547	359547	1	5.00 X 9.00 STEP TREAD
10	797845	797845	1	FUSION DECAL

54" Side Discharge Deck Decals (XR7)



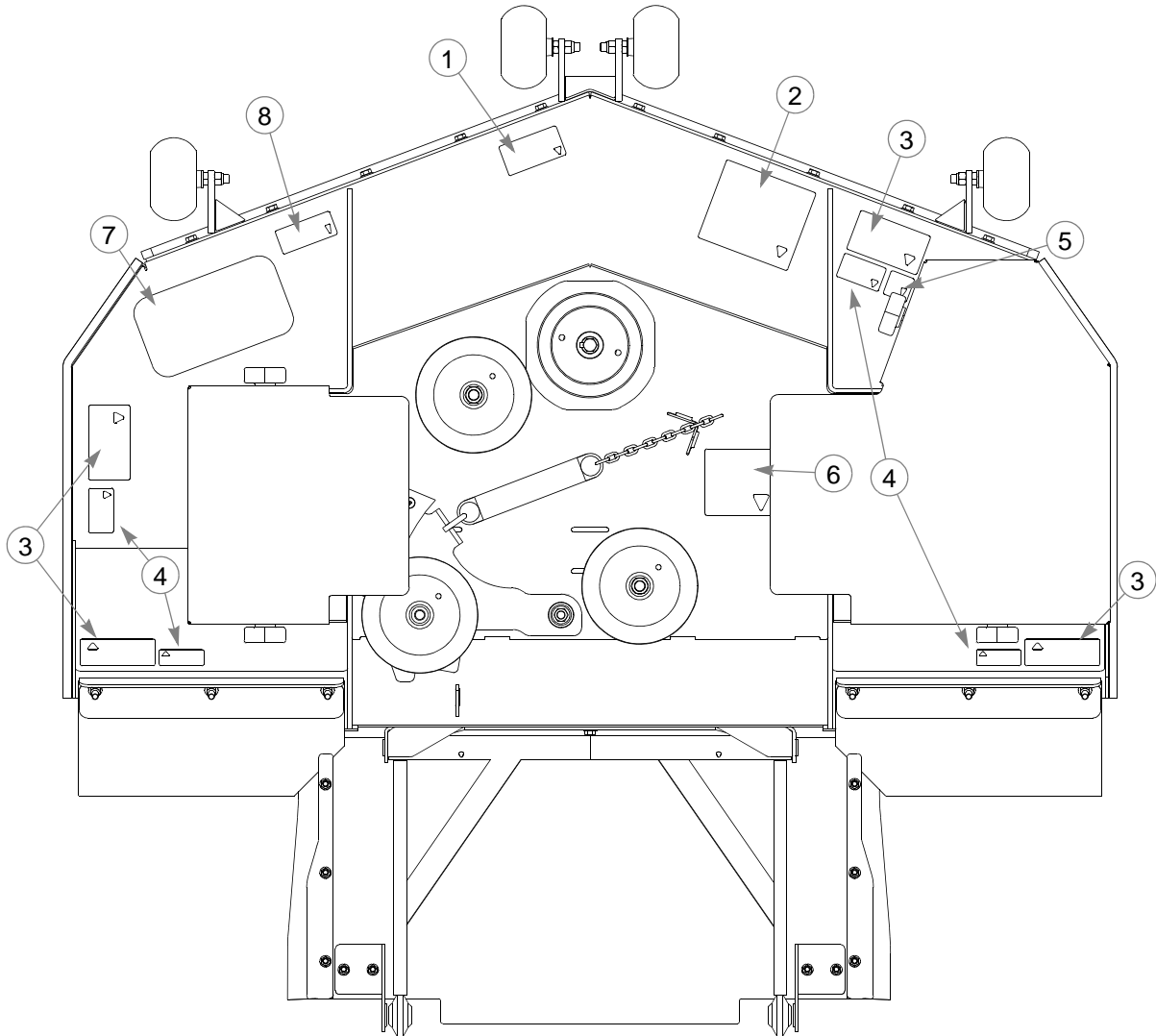
INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	799171	799171	1	54" SIDE DISCHARGE DECK ID DECAL
2	760637	760637	1	MOWER DECK QUICK REFERENCE DECAL
3	727420	727420	1	DEFLECTOR SHIELD DECAL
4	727172	727172	1	"MADE IN U.S.A." DECAL
5	727453	727453	2	BELT & PULLEY DECAL
6	727438	727438	2	WHIRLING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

72" Rear Discharge Deck Decals



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	786285	786285	1	72" DECK ID DECAL
2	760637	760637	1	MOWER DECK QUICK REFERENCE DECAL
3	727438	727438	4	WHIRLING BLADES DECAL
4	727453	727453	4	BELT & PULLEY DECAL
5	727172	727172	1	"MADE IN U.S.A." DECAL
6	796953	796953	1	REAR DISCHARGE DECK ROUTING DECAL
7	359547	359547	1	STEP TREAD 5.00 X 9.00
8	797845	797845	1	FUSION DECAL

60" Rear Discharge Deck Decals



INDEX NO.	SERVICE PART NO.	MFG. PART NO.	QTY.	DESCRIPTION
1	786277	786277	1	60" DECK ID DECAL
2	760637	760637	1	MOWER DECK QUICK REFERENCE DECAL
3	727438	727438	4	WHIRLING BLADES DECAL
4	727453	727453	4	BELT & PULLEY DECAL
5	727172	727172	1	"MADE IN U.S.A." DECAL
6	796953	796953	1	REAR DISCHARGE DECK ROUTING DECAL
7	359547	359547	1	5.00 X 9.00 STEP TREAD
8	797845	797845	1	FUSION DECAL

Section 10

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This page intentionally left blank.	10-46
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Assembly Pictures and Aids

General information for all models:

PTO clutch wire routing "FIG. 1". Extend braided portion of pigtail through frame opening about 1/2" as shown in "FIG. 2".

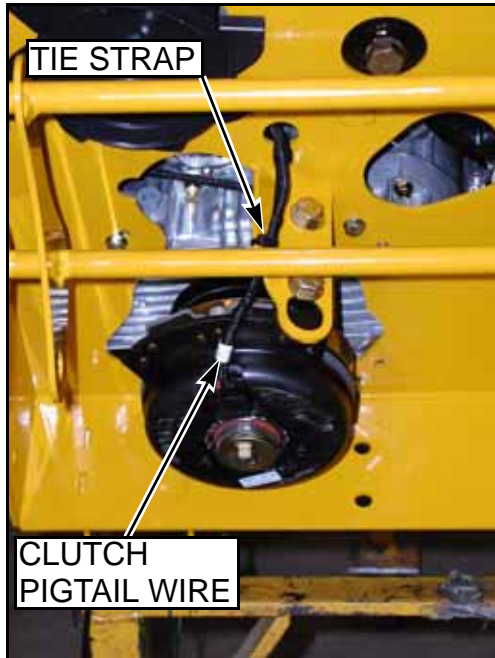


FIG. 1

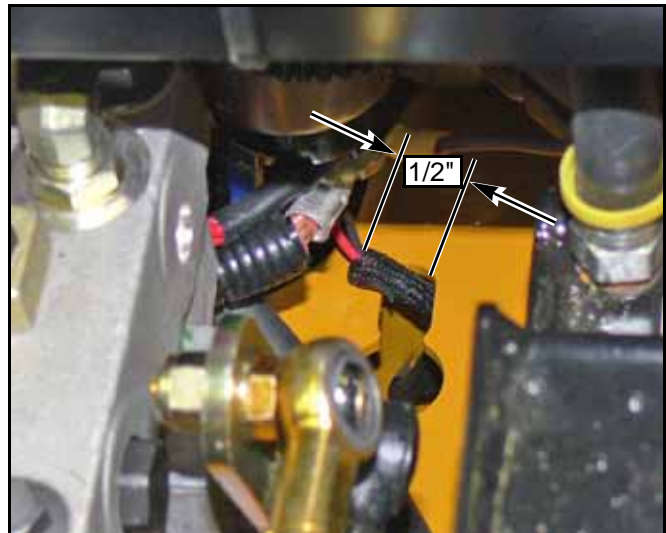


FIG. 2

PTO clutch switch installation (Instrument Panel) "FIG. 3" & "FIG. 4".



FIG. 3

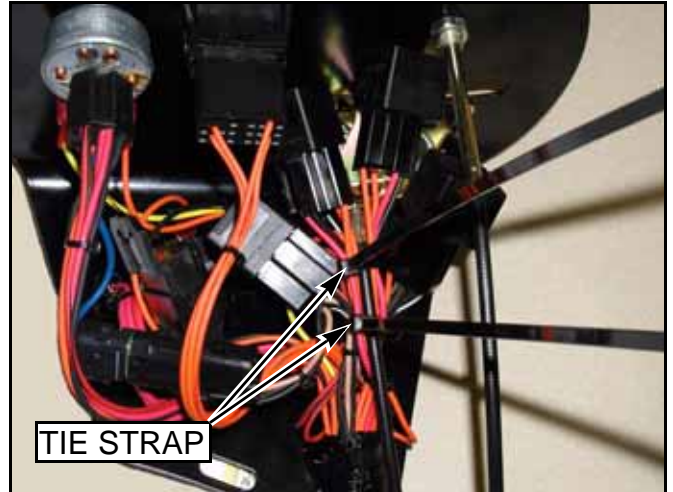


FIG. 4

Super Zs with Honda engines:

Throttle/Choke cable routing "FIG. 5".

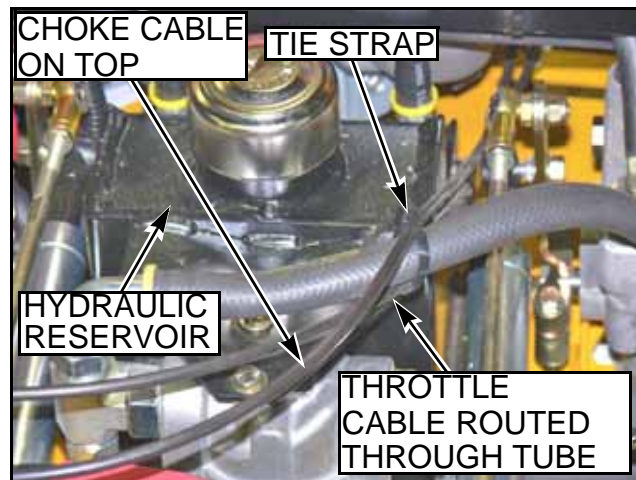


FIG. 5

Wire harness and fuel line routing "FIG. 6"

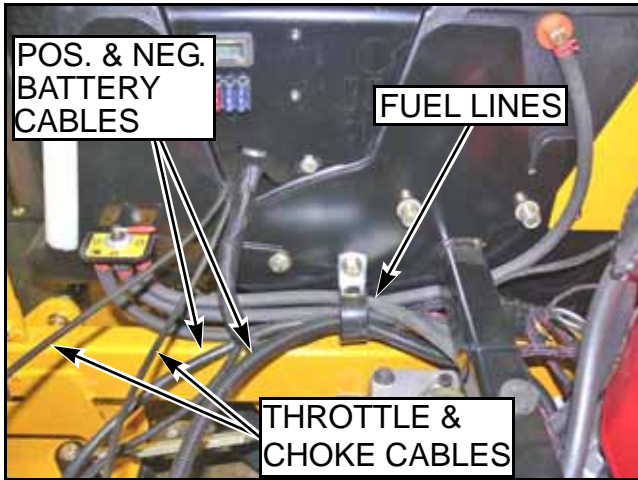


FIG. 6

Oil sensor wire routing "FIG. 7".



FIG. 7

Fuel line routing "FIG. 8" & "FIG. 9".

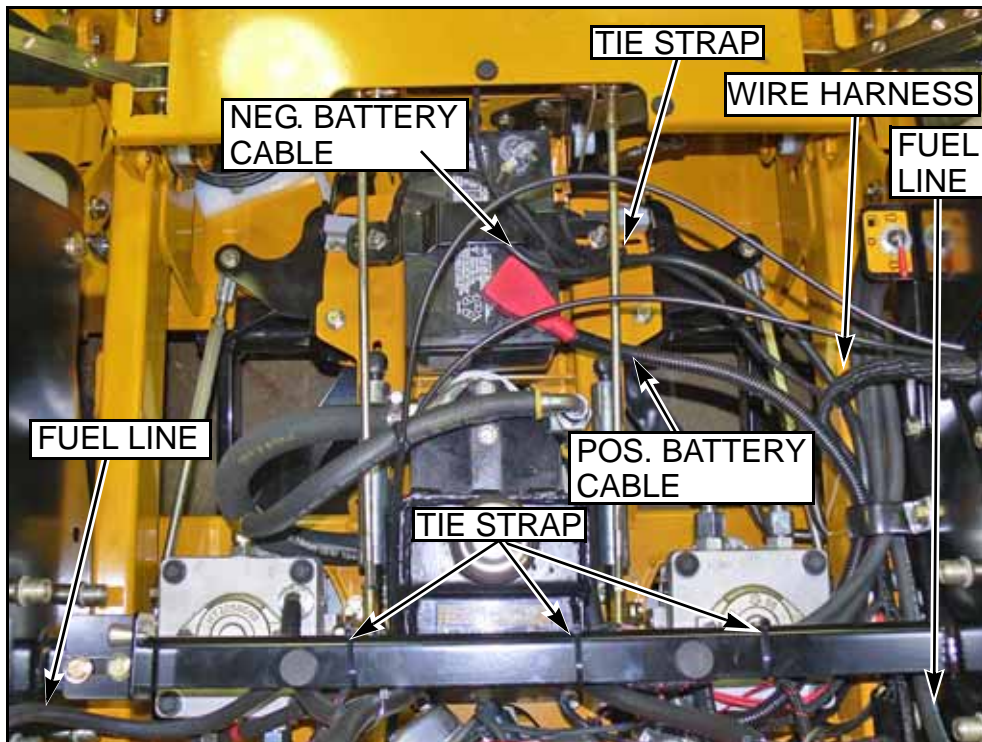


FIG. 8

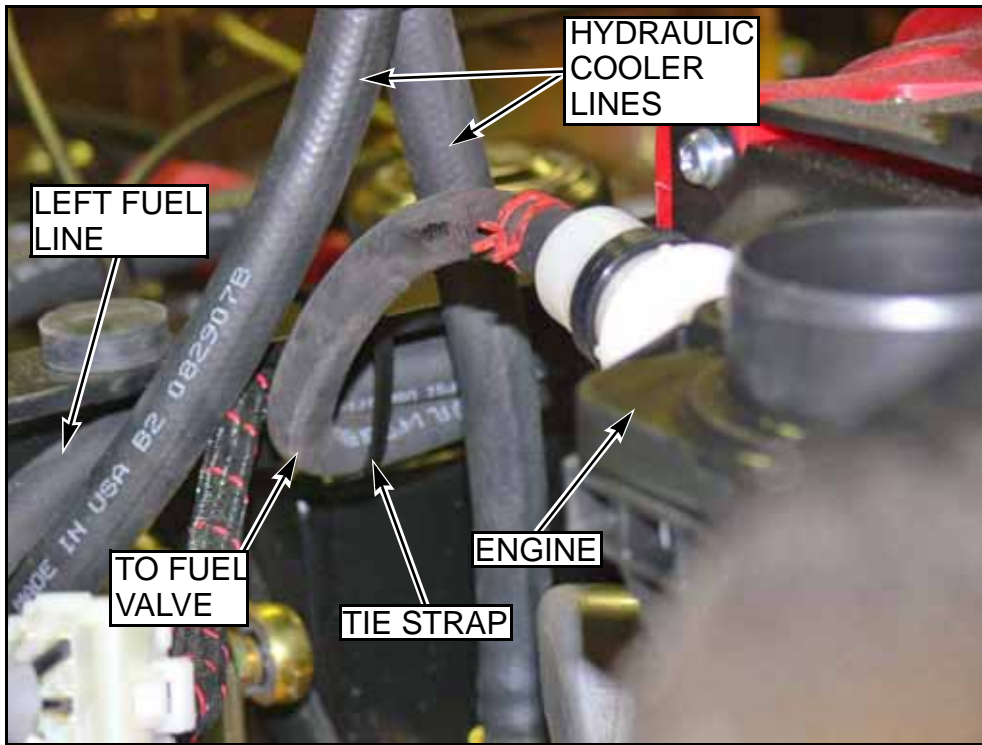


FIG. 9

Hydraulic oil heat exchanger hose ties; left side "FIG. 10" & right side "FIG. 11"

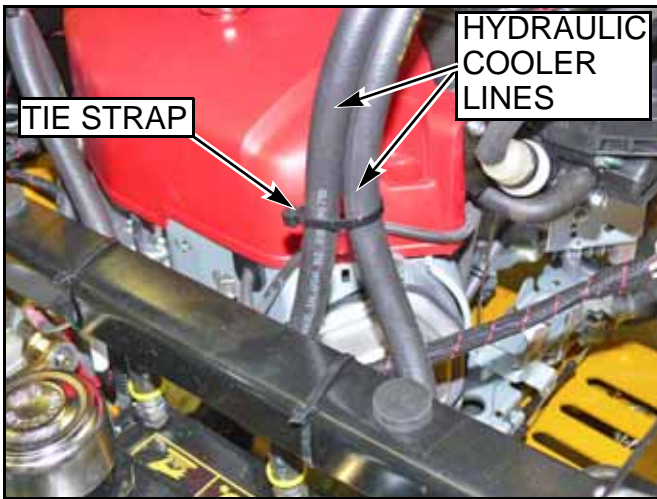


FIG. 10

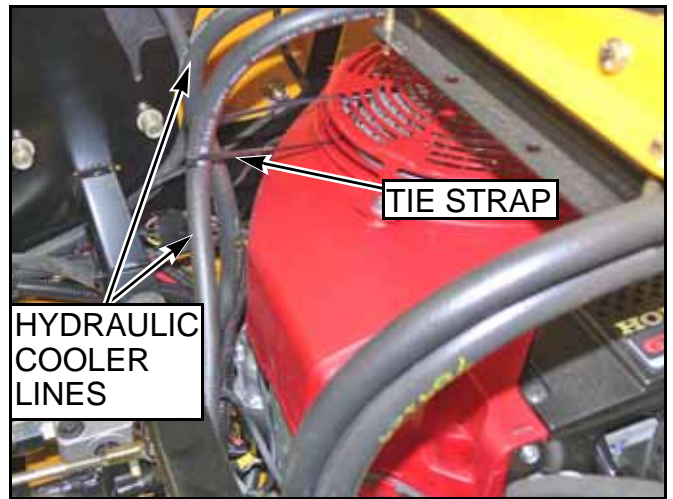


FIG. 11

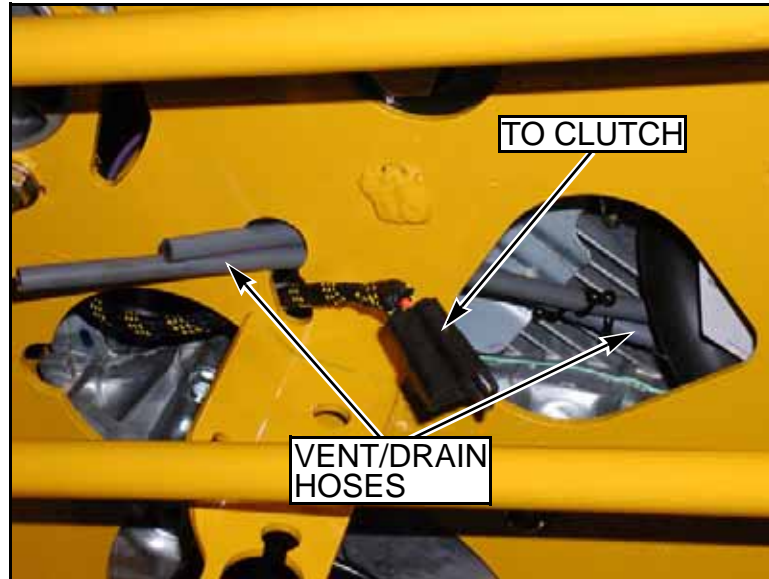


FIG. 12

Super Zs with Kawasaki air cooled engines:

DOES NOT INCLUDE MACHINES WITH 30 HP ENGINES.

Throttle/Choke cable routing "FIG. 13".

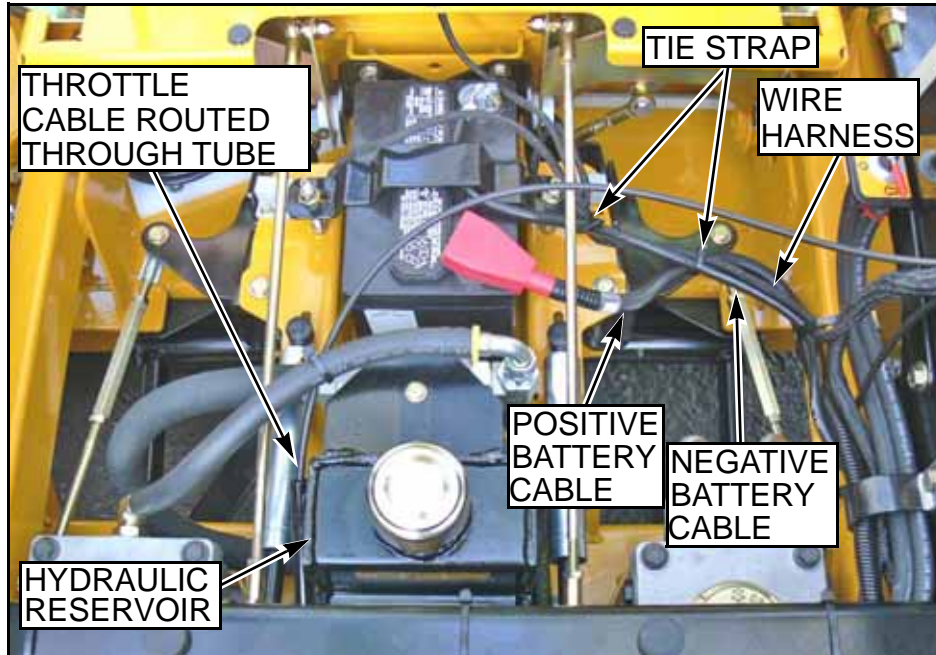


FIG. 13

Choke cable routing, front and rear tie straps "FIG. 14" & "FIG. 15".

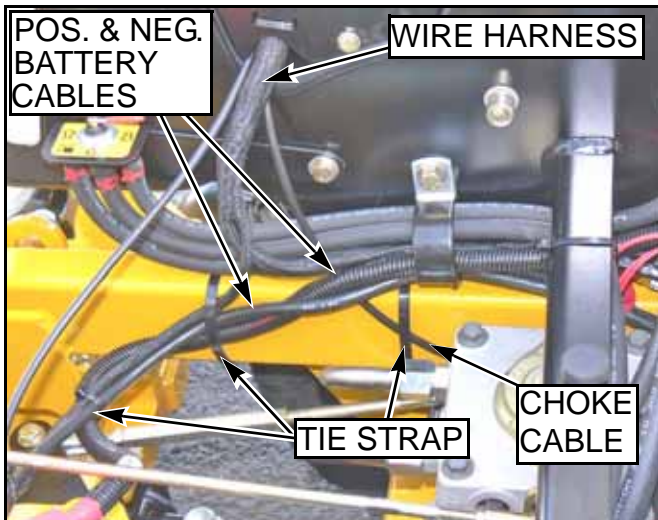


FIG. 14

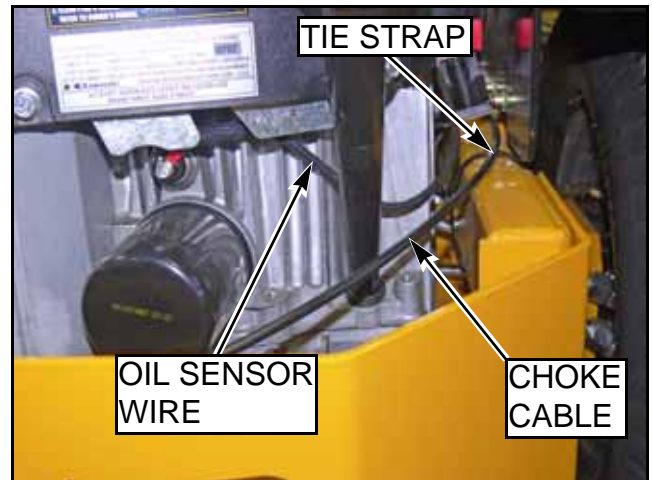


FIG. 15

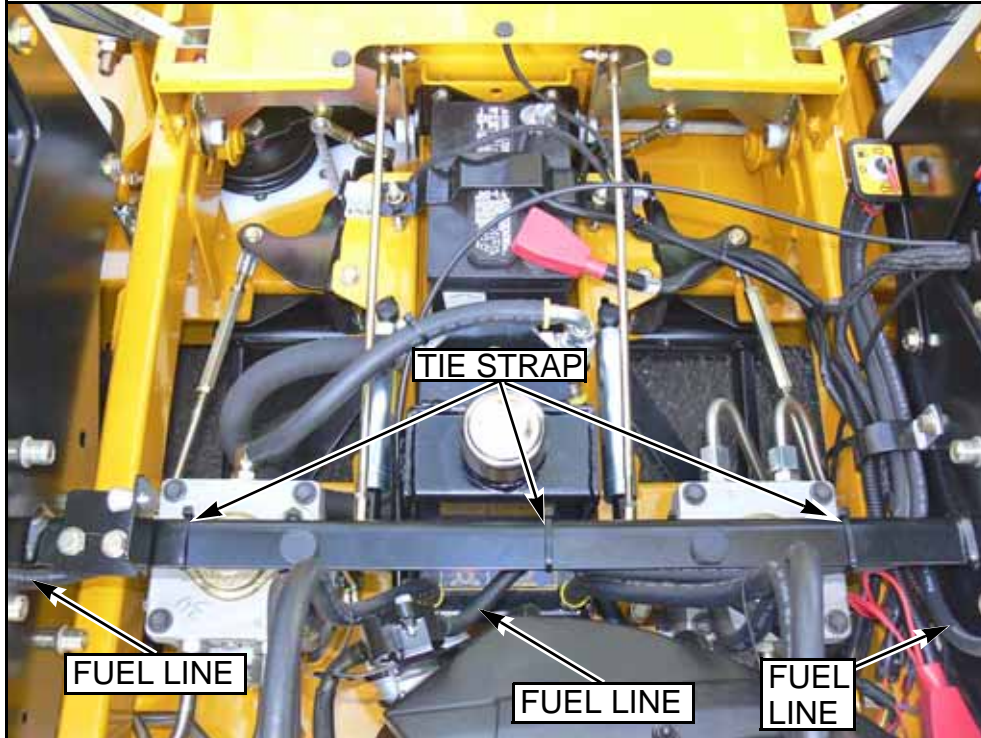


FIG. 16

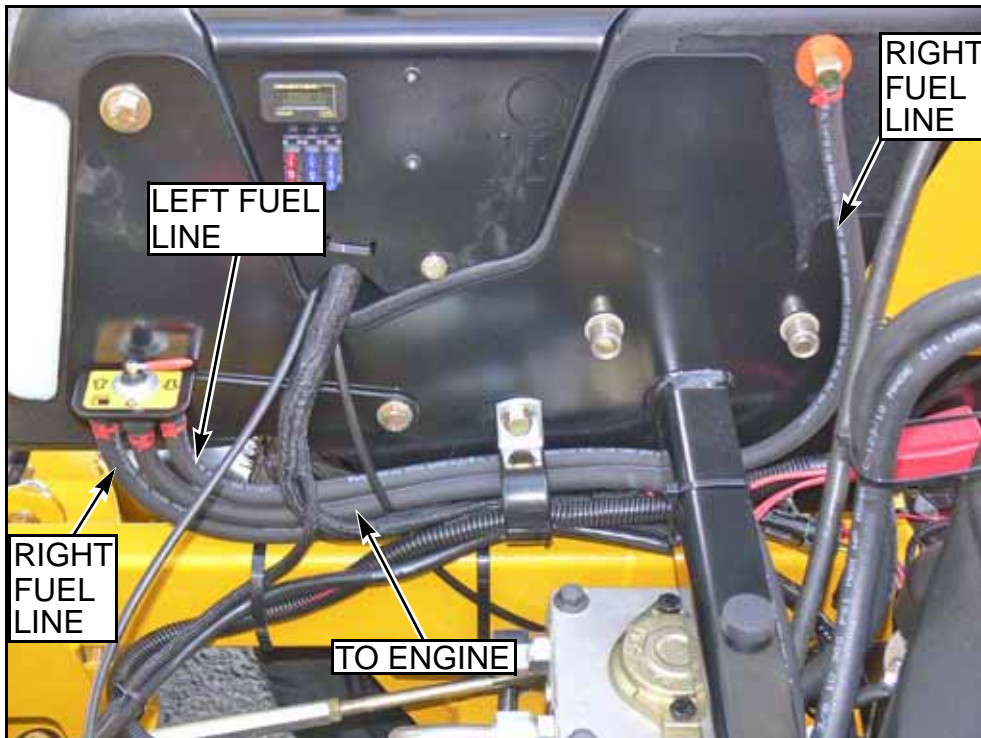


FIG. 17

Hydraulic oil heat exchanger hose ties; left side "FIG. 18" & right side "FIG. 19"

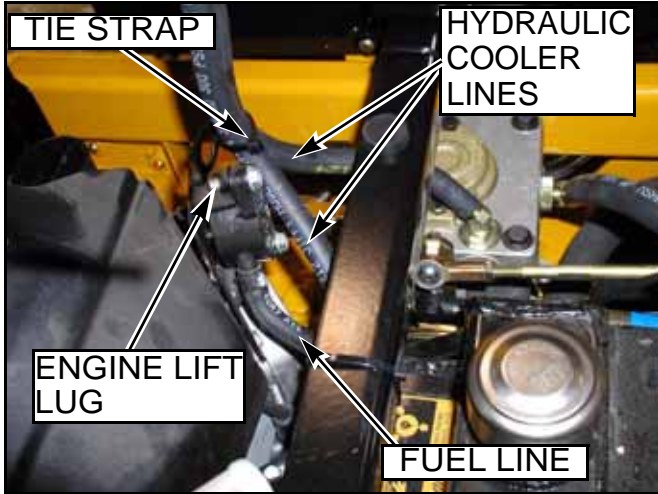


FIG. 18

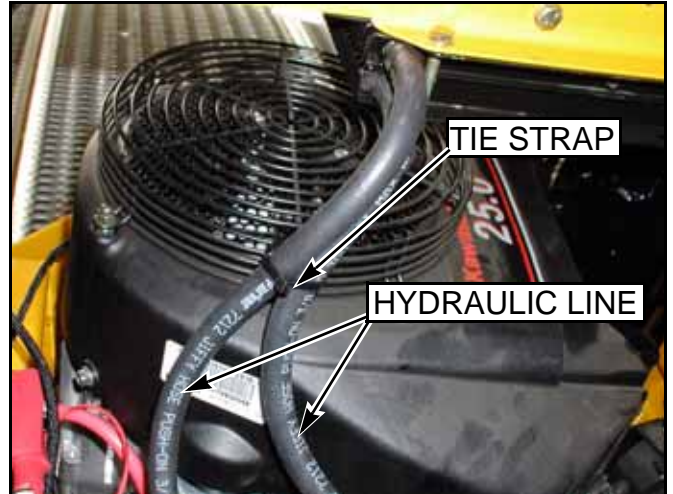


FIG. 19

Super Zs with 31 HP engines.

Wireharness and battery cable routing "FIG. 20".

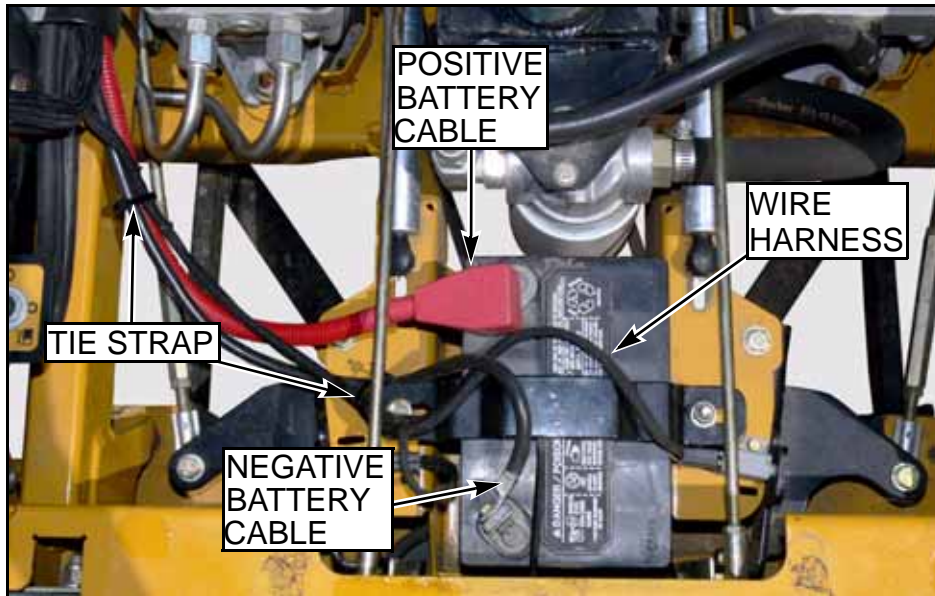


FIG. 20

Choke and throttle cable routing, front and rear tie straps "FIG. 21" & "FIG. 22".

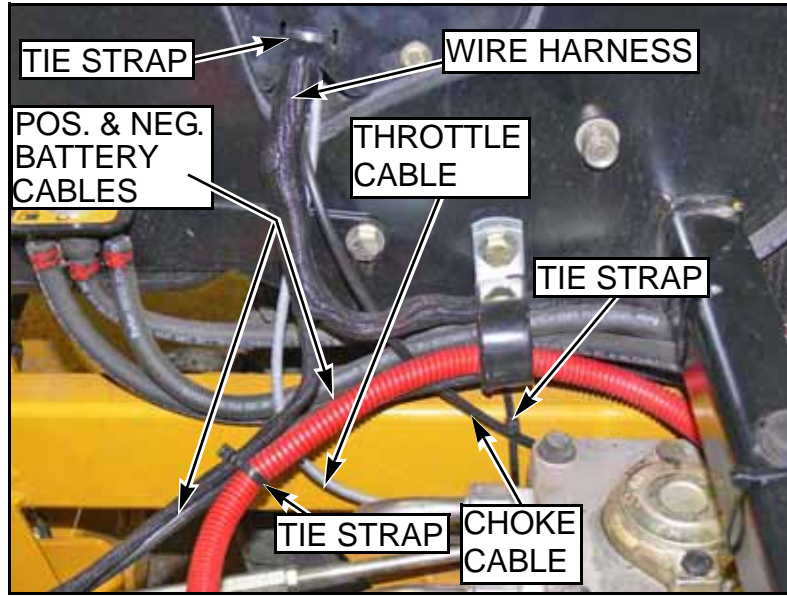


FIG. 21

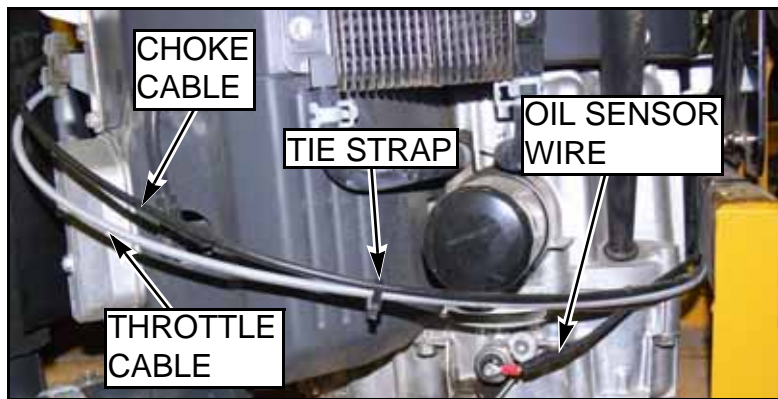


FIG. 22

Choke and throttle cable connections to engine "FIG. 23".

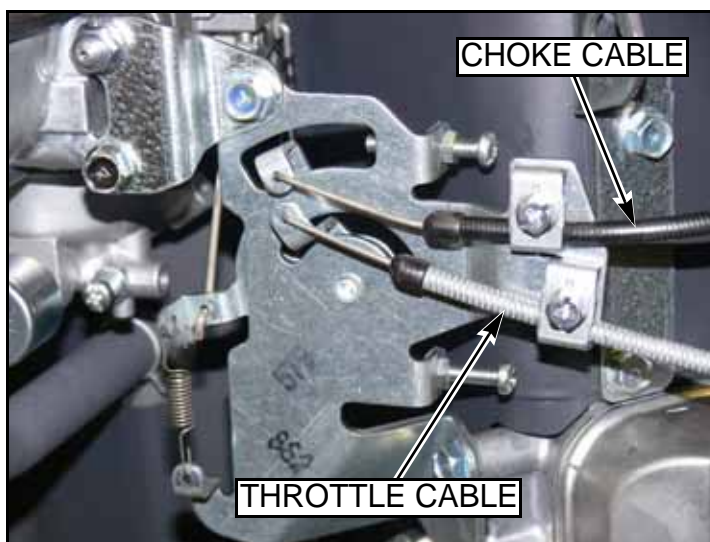


FIG. 23

Hydraulic oil heat exchanger hose ties "FIG. 24"



FIG. 24

Fuel line routing "FIG. 25" & "FIG. 26".

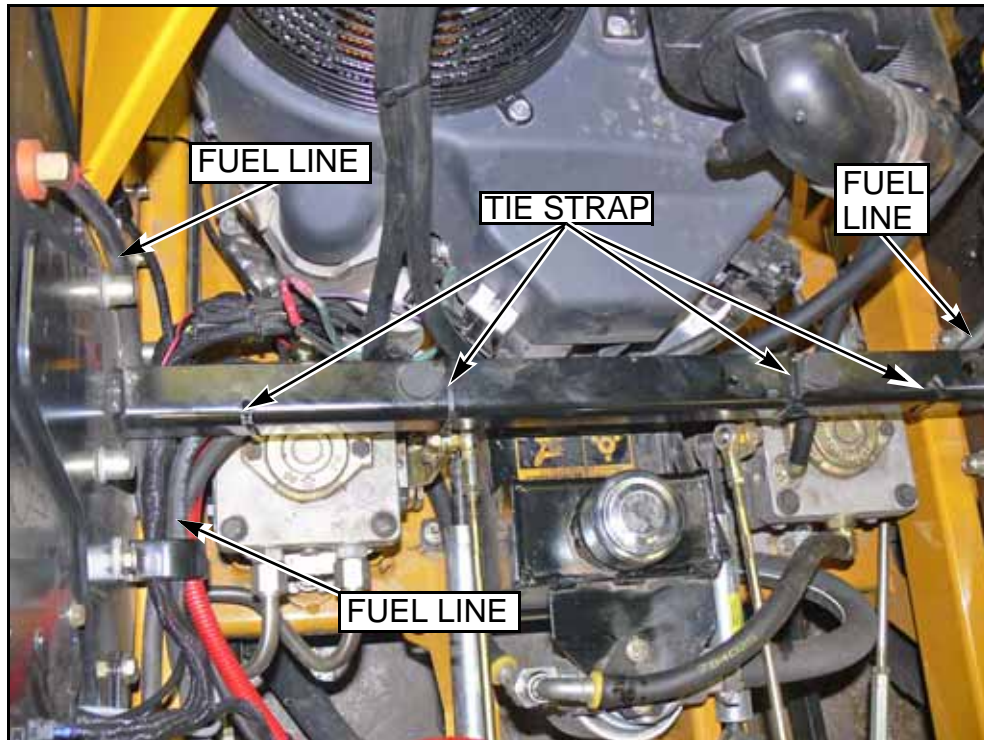


FIG. 25

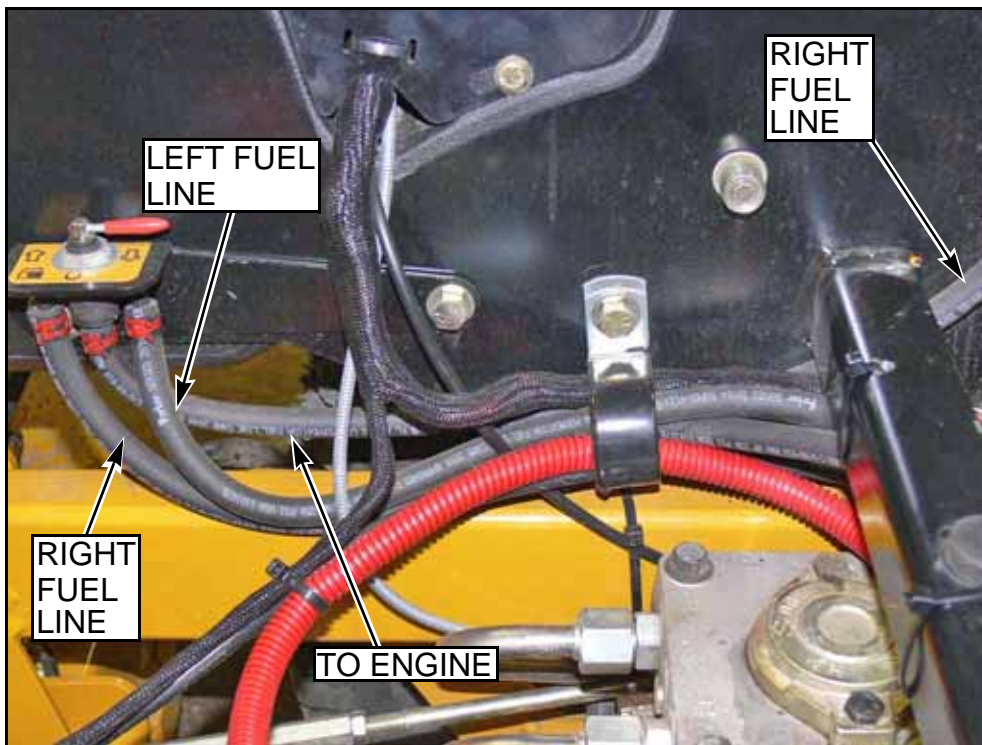


FIG. 26

Super Zs with Kawasaki 26 HP liquid cooled engines.

Throttle and choke cable connections "FIG. 27".

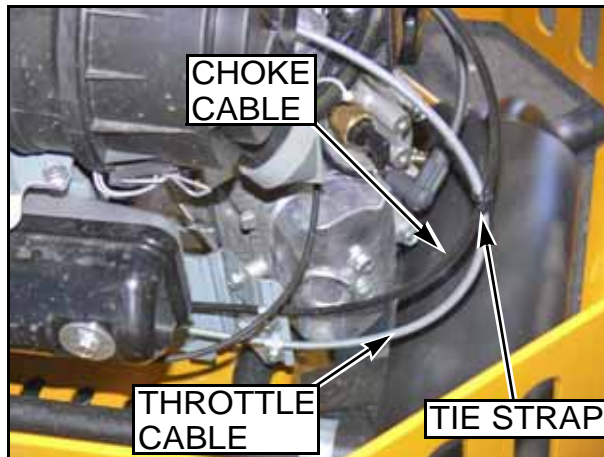


FIG. 27

Hydraulic cooler line routing "FIG. 28".

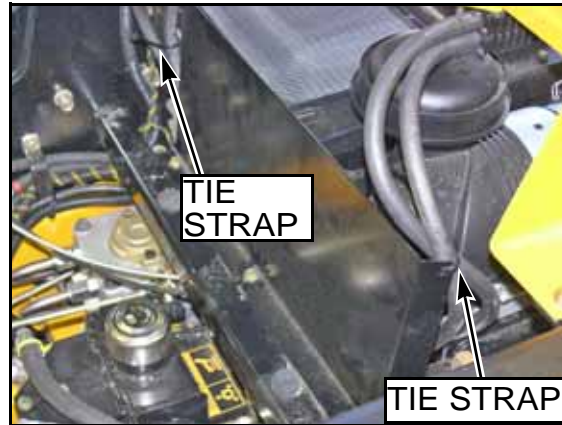


FIG. 28

Wireharness and cable routing "FIG. 29" & "FIG. 30".

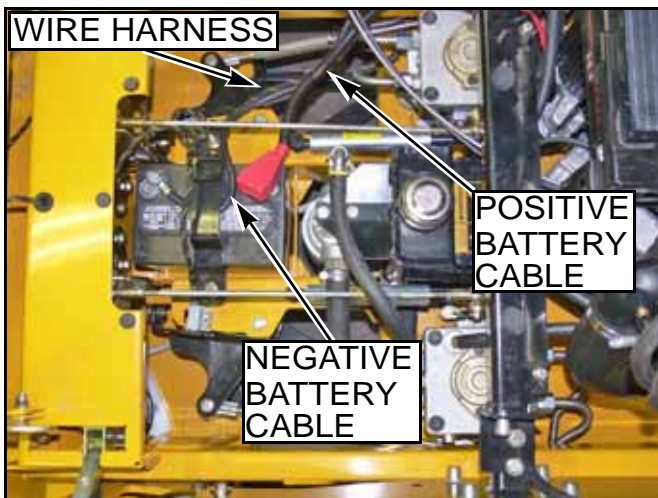


FIG. 29

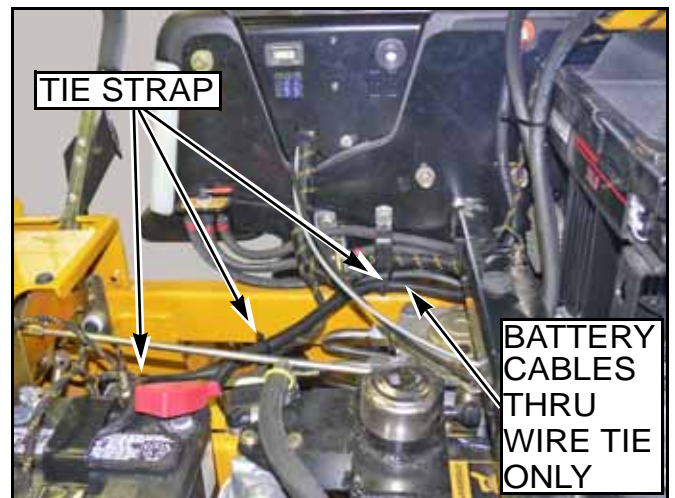


FIG. 30

Super Zs with Kohler w/ carburetor engines (27 HP):

Throttle and choke cable routing "FIG. 31" & "FIG. 32".

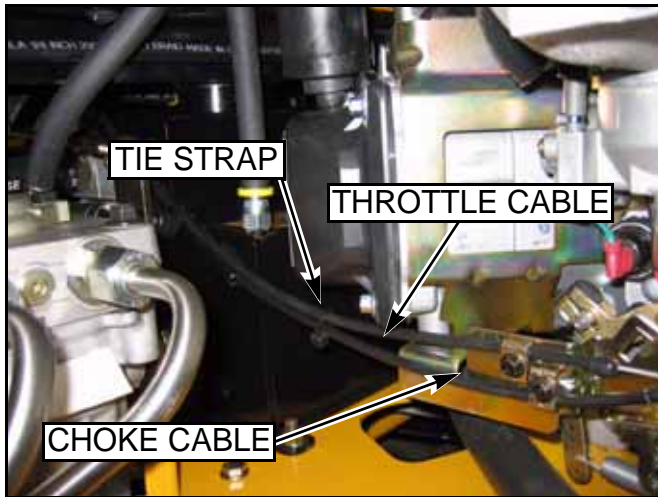


FIG. 31

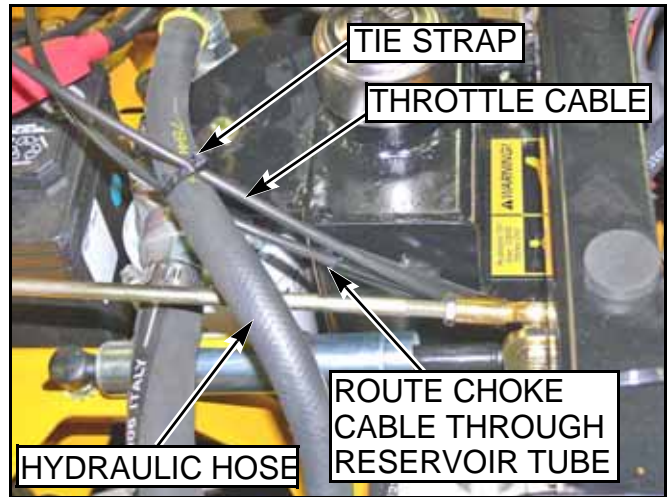


FIG. 32

Wire harness and battery cable routing "FIG. 33".

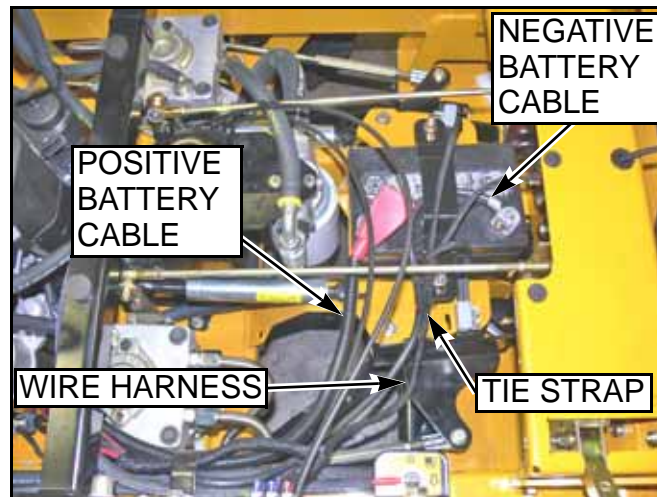


FIG. 33

Fuel line routing "FIG. 34".

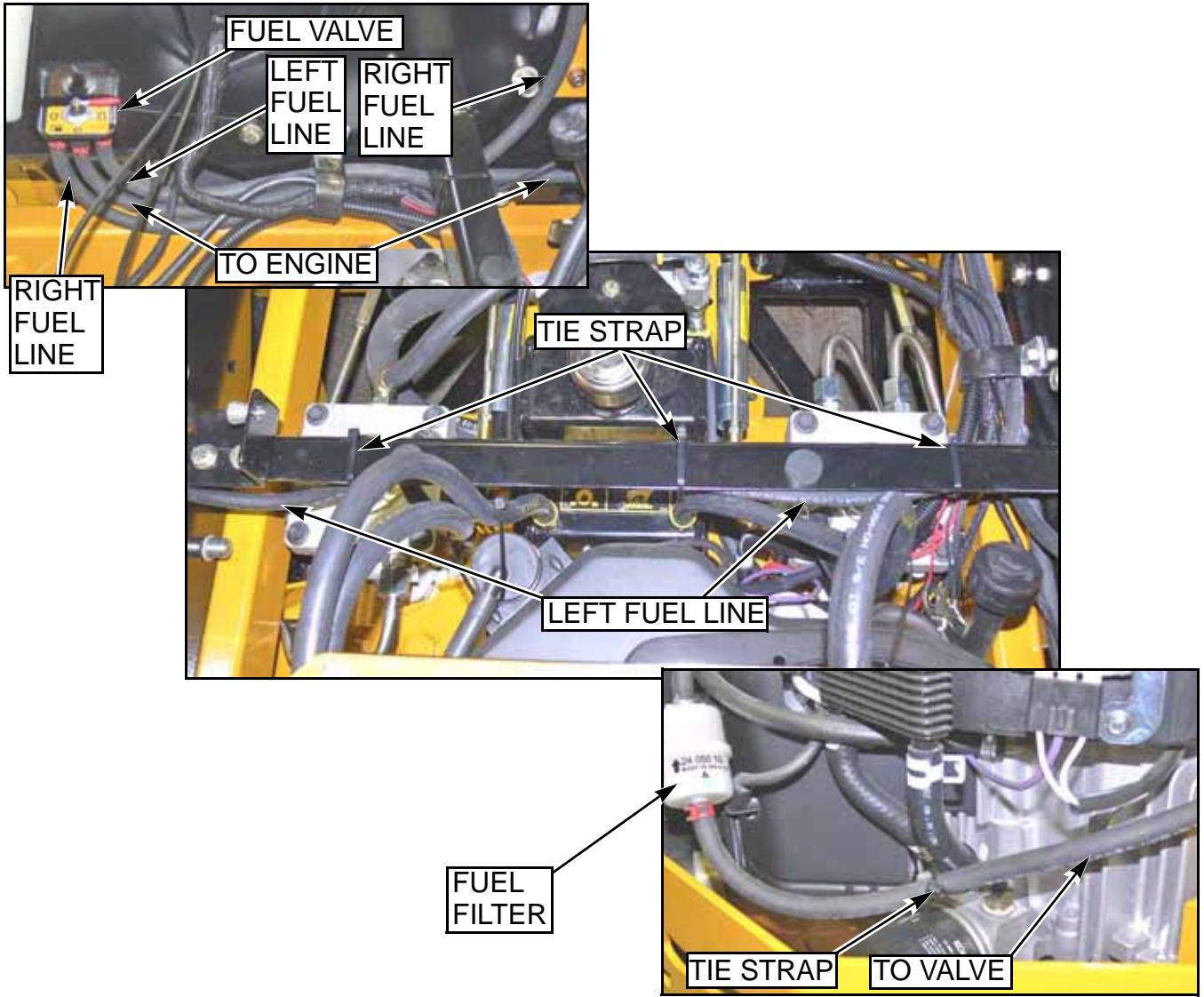


FIG. 34

Hydraulic oil heat exchanger hose ties, right and left side (Kohler carburetor) "FIG. 35" and "FIG. 36".



FIG. 35



FIG. 36

Super Zs with Kohler w/ carburetor engines (30 HP):

Wireharness and cable routing "FIG. 37".

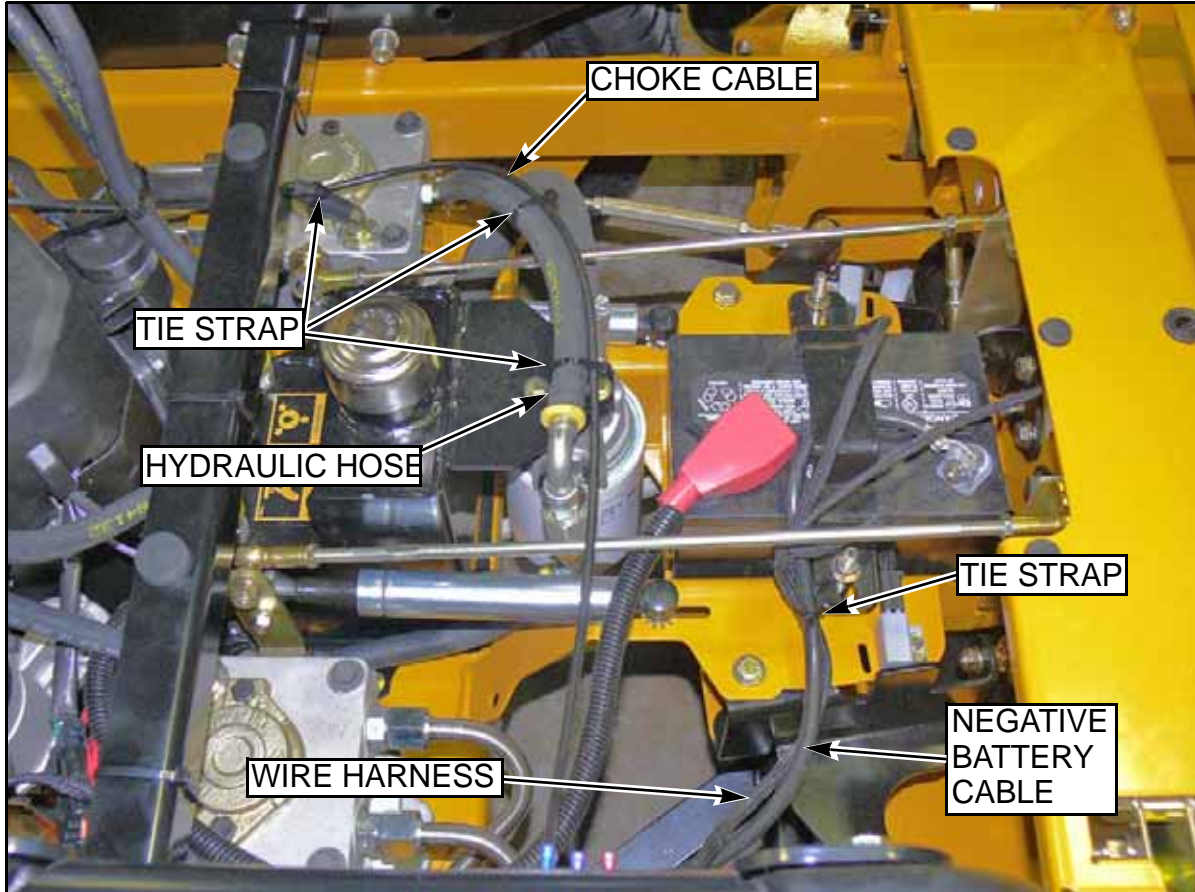


FIG. 37

Choke and throttle cable connections to engine "FIG. 38". See "FIG. 39" for routing choke cable through hydraulic lines.

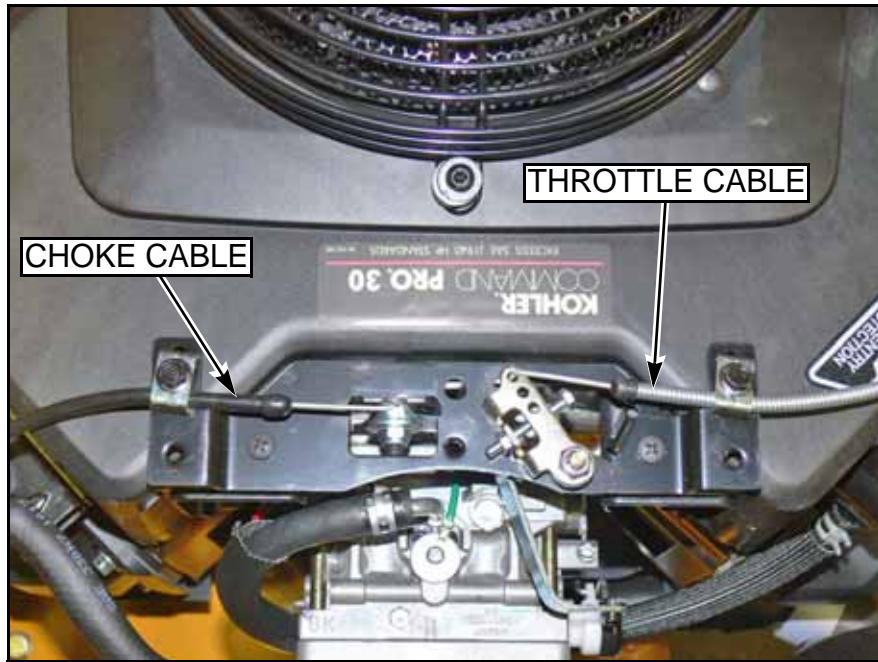


FIG. 38

Hydraulic oil heat exchanger hose ties, right and left side (Kohler 30 carburetor) "FIG. 39" and "FIG. 40".



FIG. 39

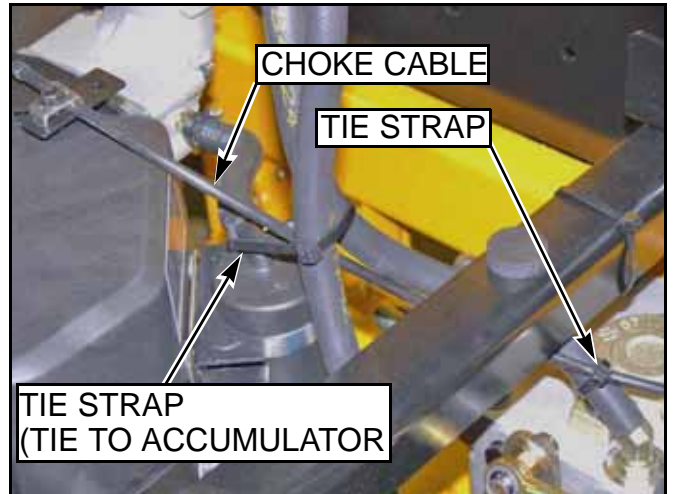


FIG. 40

Fuel line routing "FIG. 41".

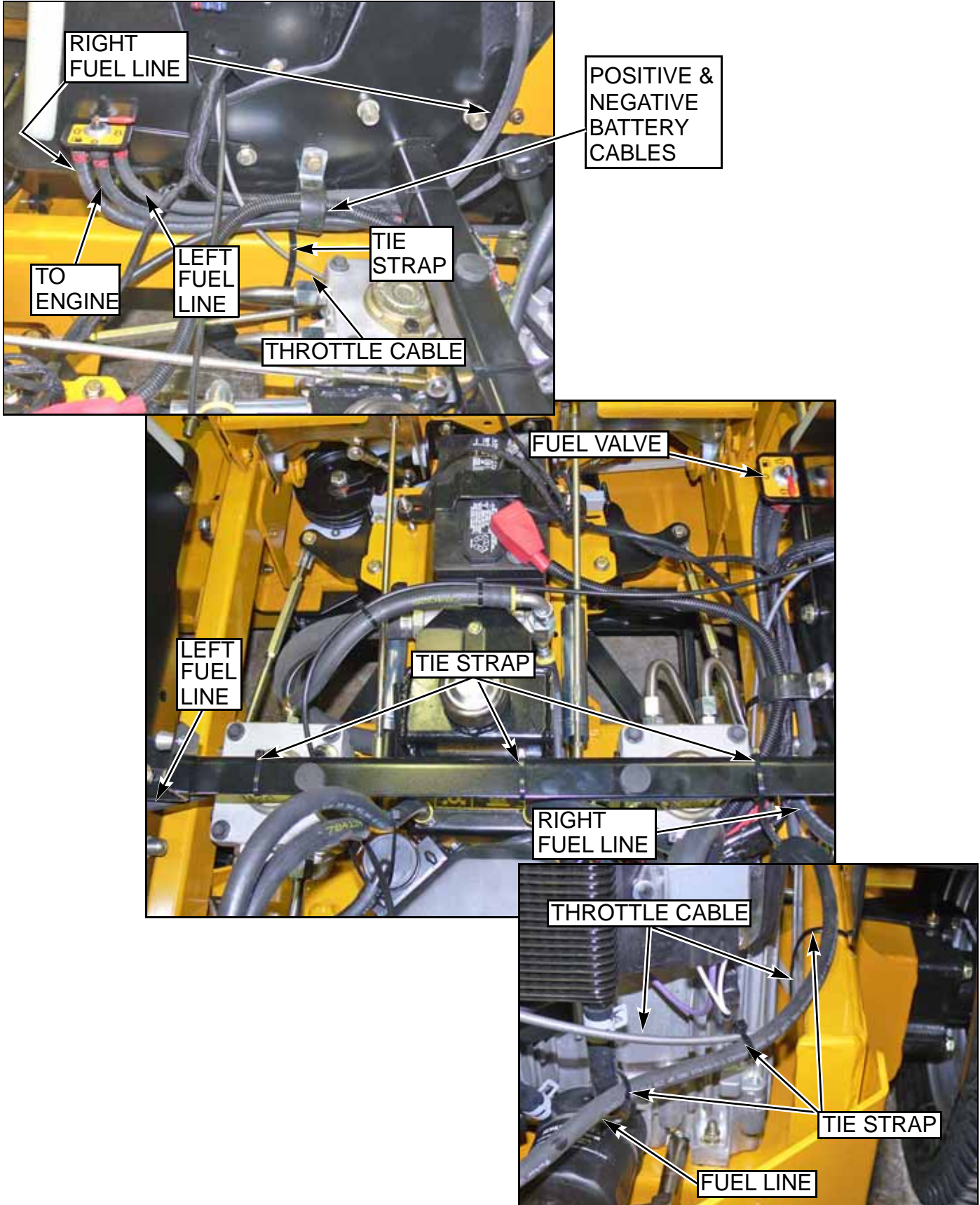


FIG. 41

Super Zs with Kohler EFI engines (28 HP):

Front and rear throttle cable routing "FIG. 42" and "FIG. 43"

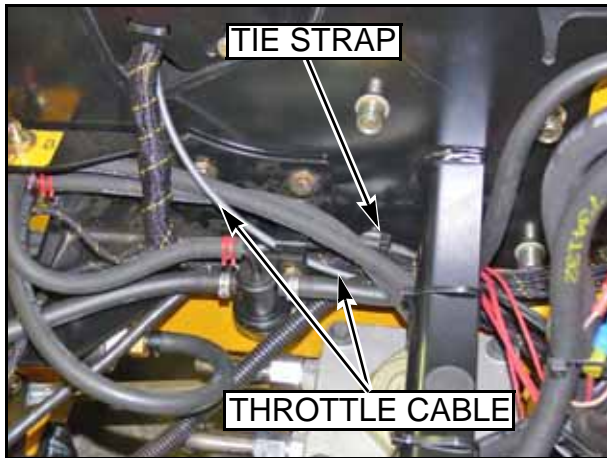


FIG. 42

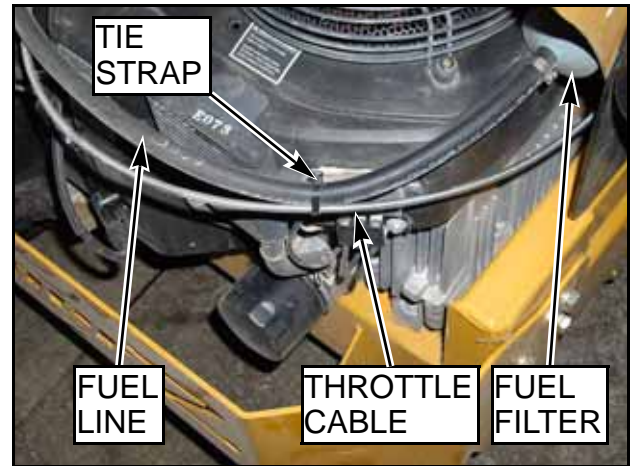


FIG. 43

Right Side Fuel line routing "FIG. 44".

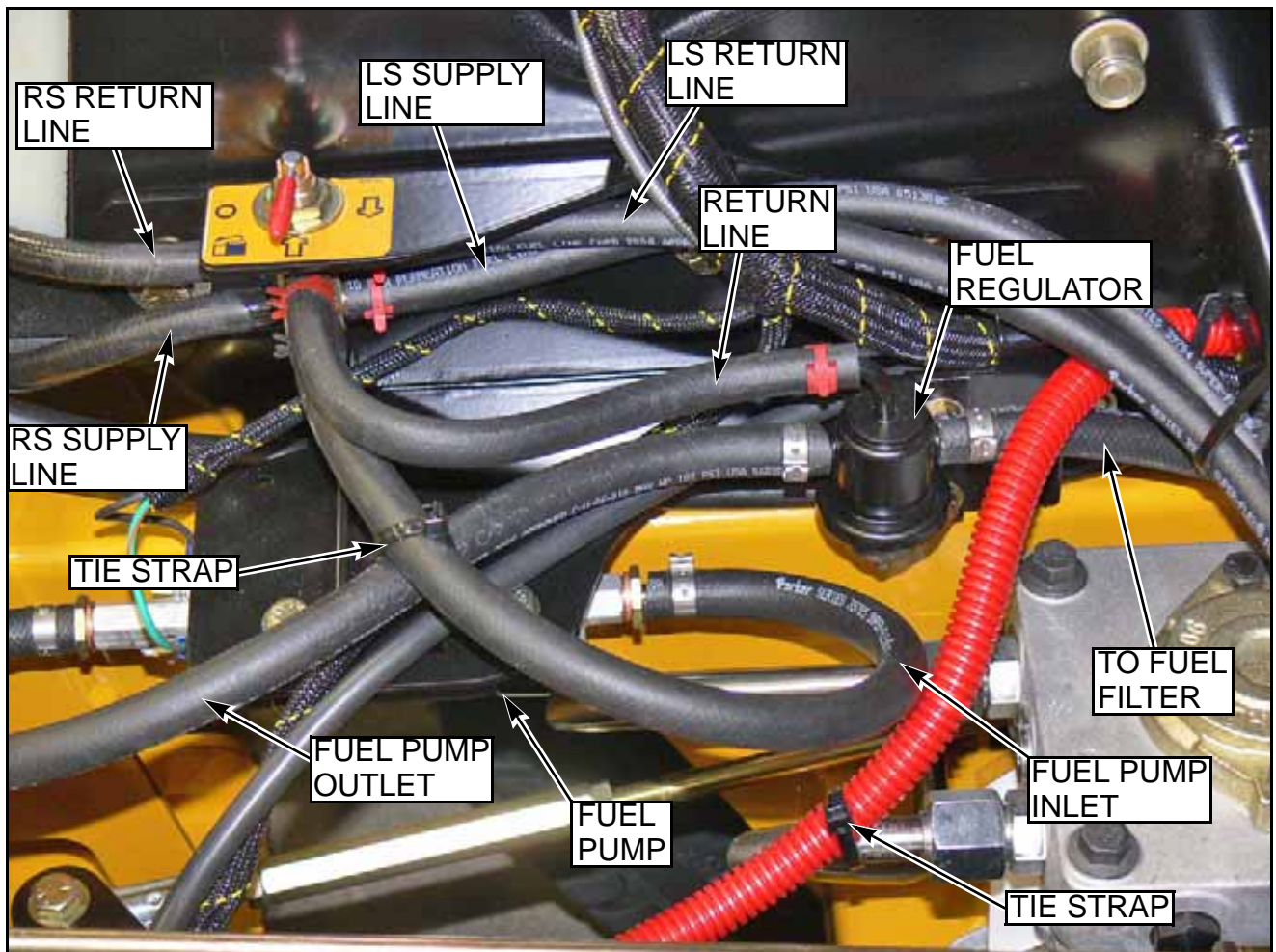


FIG. 44

Fuel pump wire harness connection"FIG. 45"

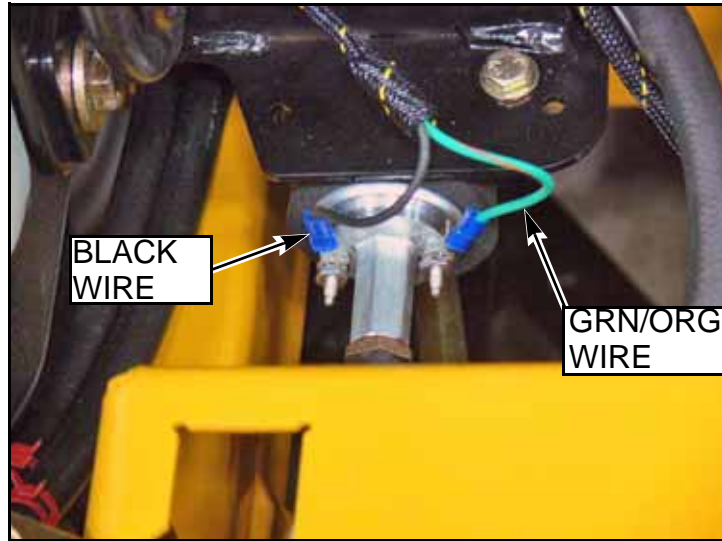


FIG. 45

Left side fuel line routing "FIG. 46"

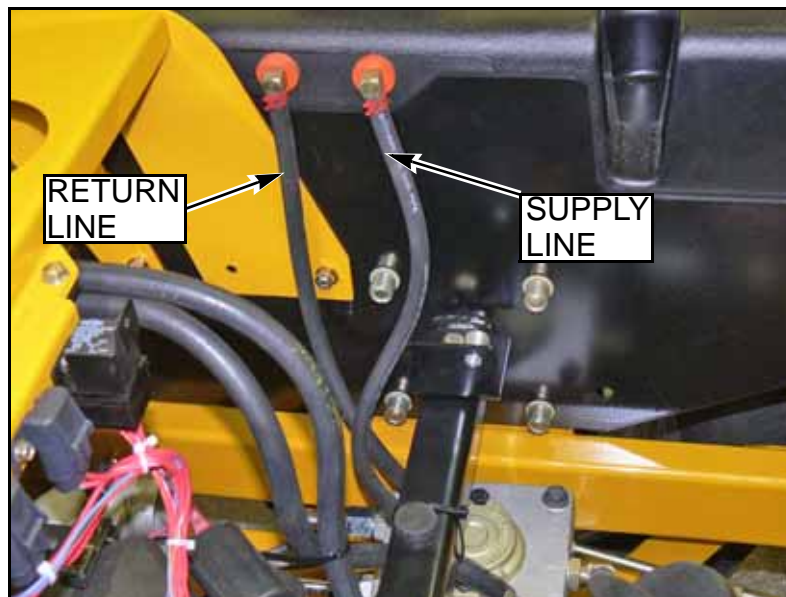


FIG. 46

Fuel line routing beneath seat support, "FIG. 47" and "FIG. 48" (as seen from rear).

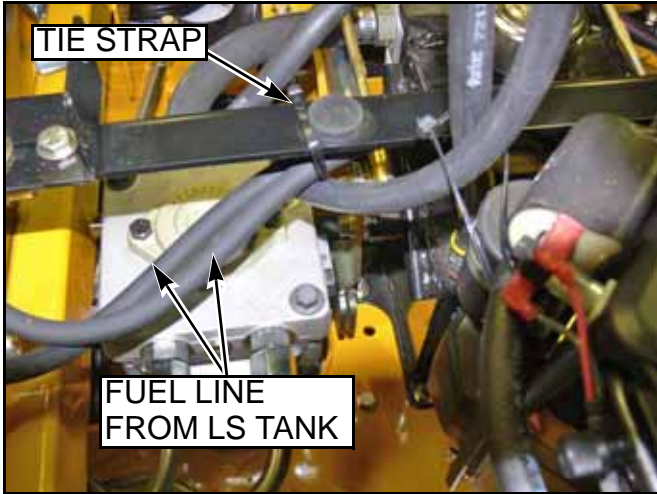


FIG. 47

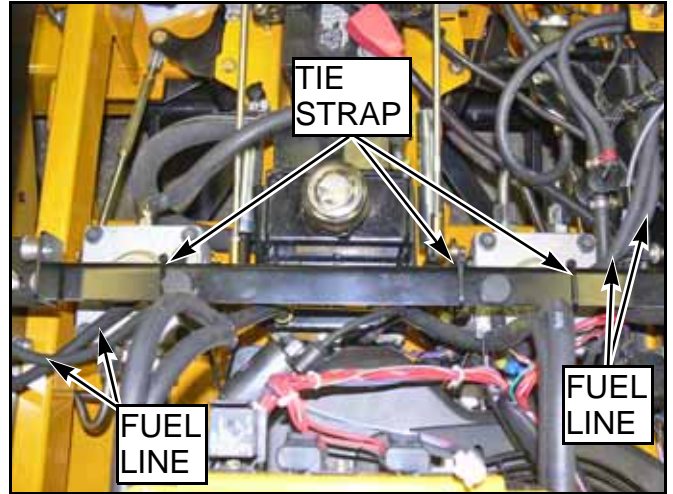


FIG. 48

Wire harness, throttle cable, and fuel line routing around battery "FIG. 49"

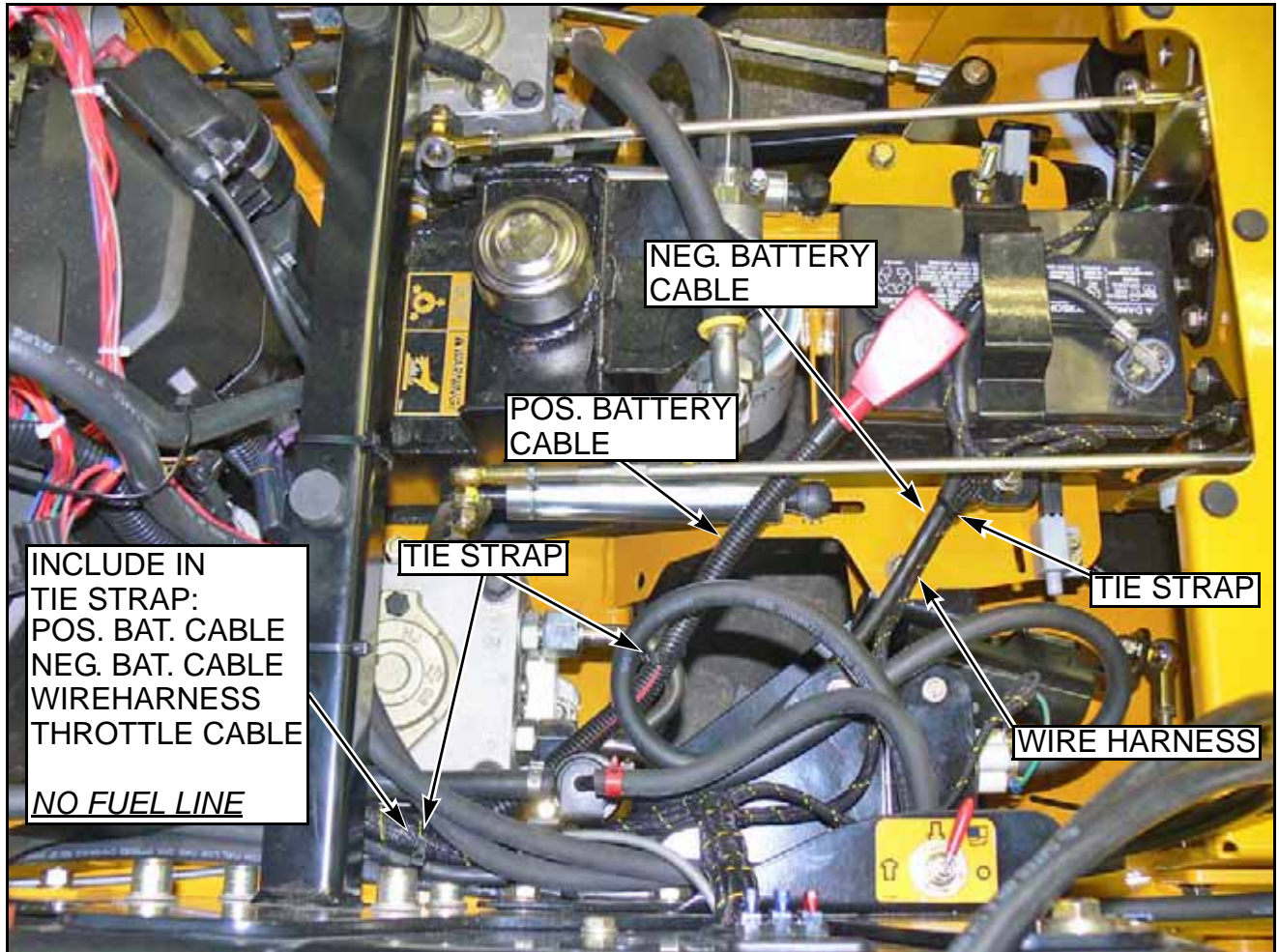


FIG. 49

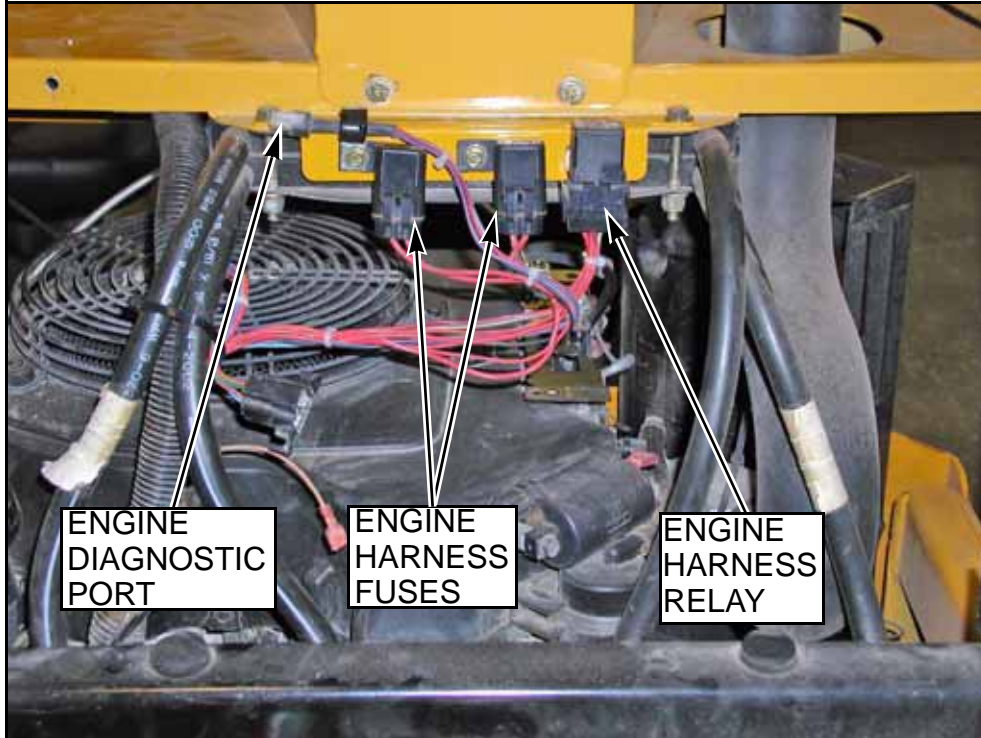


FIG. 50

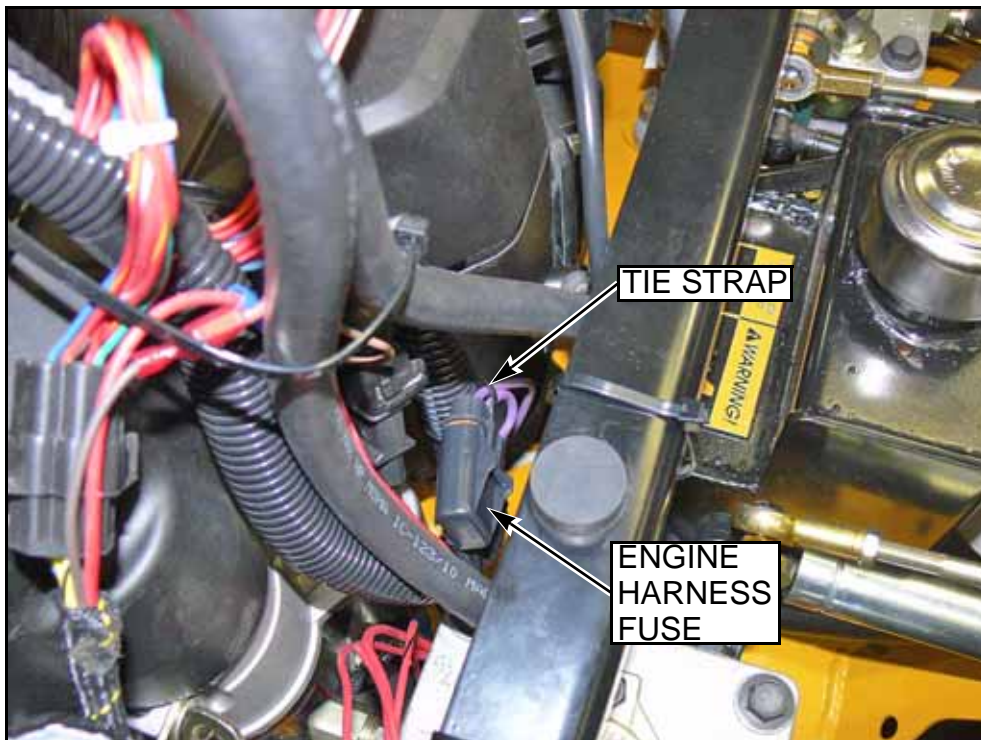
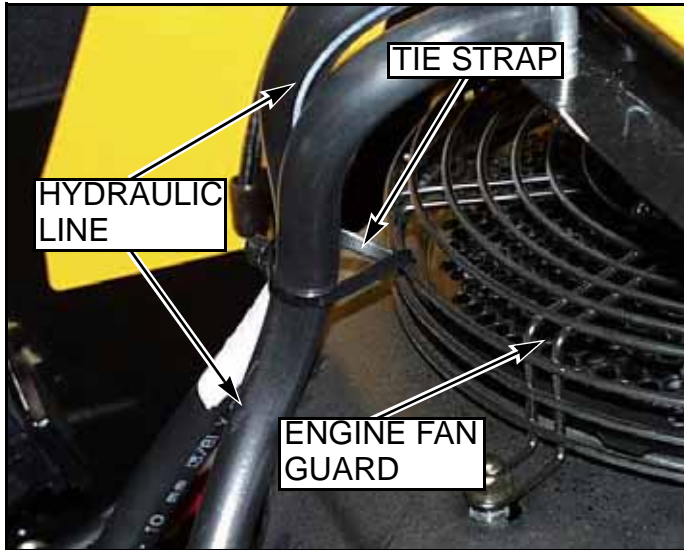


FIG. 51

Hydraulic oil heat exchanger hose ties, upper right side "FIG. 52" & "FIG. 53".



Hydraulic oil heat exchanger hose ties, right side "FIG. 54"



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.

Unless specifically required, **DO NOT** have engine running when servicing or making adjustments to mower. Place control levers in the park brake position, disengage deck clutch, remove ignition switch key and disconnect the negative battery cable. Repairs or maintenance requiring engine power should be performed by trained personnel only. To prevent carbon monoxide poisoning, be sure proper ventilation is available when engine must be operated in an enclosed area.

Follow daily and weekly checklists, making sure hoses are tightly secured and bolts are tightened.

Keep your machine clean and remove any deposits of trash and clippings, which can cause engine fires and hydraulic overheating as well as excessive belt wear. Clean up oil or fuel spillage. Allow machine to cool before storing.

Clean flammable material from machine. Prevent fires by keeping engine compartment, battery, hydraulic lines, fuel line, fuel tank and operator's station clean of accumulated trash, grass clippings, and other debris. Always clean up spilled fuel and oil.

Always wear adequate ear protection, such as earplugs, when operating this equipment as prolonged exposure to uncomfortable or loud noises can cause impairment or loss of hearing. Do not wear radios or music headphones while operating the machinery. Safe operation requires your full attention.

Never put hands or feet under any part of the machine while it is running.

Except when changing or checking belt, **always** keep belt covers on mower for safety as well as cleanliness.

Stop the engine before removing the grass catcher or unclogging the discharge chute. Never clear the discharge chute with the engine running. Turn off the engine and be sure the blades have stopped before cleaning. Use a stick to clear a plugged discharge area. **Never use your hand!**

Exercise caution when loading or unloading the machine onto a trailer or truck.

Always wear safety goggles or safety glasses with side shields when operating the mower.

Never leave machine unattended with ignition key in switch, especially with children present.

Be alert and turn the machine off if children enter the area.

Always wear adequate eye protection when servicing the battery, hydraulic system, cooling system or when grinding mower blades and removing accumulated debris.

Use extra caution when handling gasoline and other fuels. They are flammable and vapors are explosive.

Never refuel mower while engine is running; never refuel near an open flame or near devices which can create a spark. Refuel outdoors preferably, or in well ventilated areas.

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

Never run the engine in an enclosed area unless exhaust is vented to the outside. Exhaust gases contain carbon monoxide which is odorless and deadly poison.

Never attempt to make any adjustments or repairs to the mower drive system, mower deck or any attachment while the mower engine is running or deck clutch is engaged. Repairs or maintenance requiring engine power should be performed by trained personnel only.

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

Before working on or under the deck, make certain engine cannot be accidentally started. Shut engine

off and remove ignition switch key for maximum safety. Repairs or maintenance requiring engine power should be performed by trained personnel only.

Use a stick or similar instrument to clean under the mower making sure that no part of the body, especially arms and hands are under mower.

Exercise caution when working under the deck as the mower blades are extremely sharp. Wearing gloves or wrapping the blade(s) is advisable when working around or with the blades.

Do not touch hot parts of machine.

Keep nuts and bolts tight, especially the blade attachment bolts. Keep equipment in good condition.

Never tamper with safety devices. Check their proper operation regularly.

Grass collection system components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.

Use only genuine Hustler replacement parts to ensure that original standards are maintained

Using a ramp

Use extreme caution when loading and unloading a unit with a ramp.

Use only a single, full width ramp; do not use individual ramps for each side of the unit. Having a full width ramp provides a surface for the mower frame to contact if the unit starts to tip backwards. It also reduces the risk of a wheel going off and the machine tipping over.

Do not exceed a 15 degree angle between the ramp and the ground or between the ramp and the trailer or truck.

When on a ramp avoid sudden acceleration

Safety and Instruction Decals

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

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



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



Do not smoke while refueling. Do not fill tank with engine running, or while the engine is hot.

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



Part Number
727016

Avoid skin contact with battery acid. Always wear eye protection when checking the battery, acid can cause serious injury to skin and eyes. If contact occurs, flush area with clean water and call physician immediately. Acid will also damage clothing. Do not allow open flame near the battery when charging. Hydrogen gas forms inside the battery. This gas is both toxic and flammable and may cause an explosion if exposed to flame. Always remove the negative ground first and replace it last. Do not overfill battery. Electrolyte may overflow and damage paint, wiring or structure. When cleaning the battery, use soap and water. Be careful not to get soap and water into the battery. Use soda mixed in water to clean corrosion off the terminals.



Part Number
727420

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



Part Number
727438

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



Part Number
771436

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



Part Number
727453

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



Part Number
788968

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



Part Number
600899

If you lose steering control while operating the machine, place the steering control levers in the park brake position immediately. Inspect the machine and involve your Hustler dealer to resolve the problem before continuing to operate. **If pump belt fails, steering control will be lost.** Refer to owner's manual for inspection and replacement intervals and refer to above paragraph for emergency procedures.



Part Number
727008

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

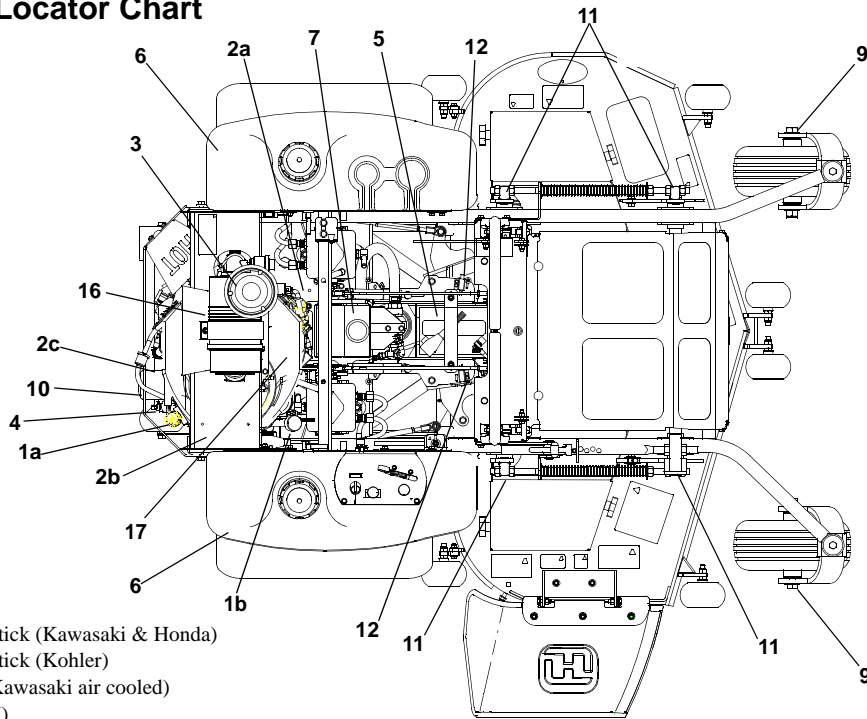


Part Number
779280

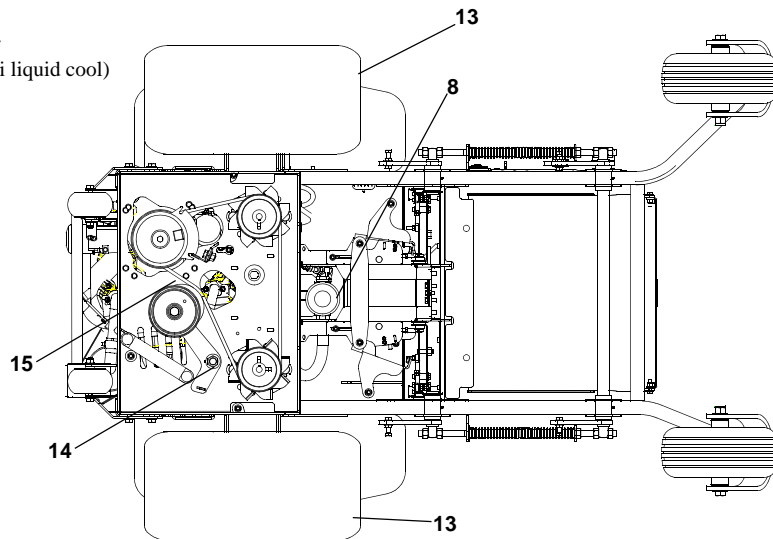
Hot surface!

Maintenance

Maintenance Locator Chart



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

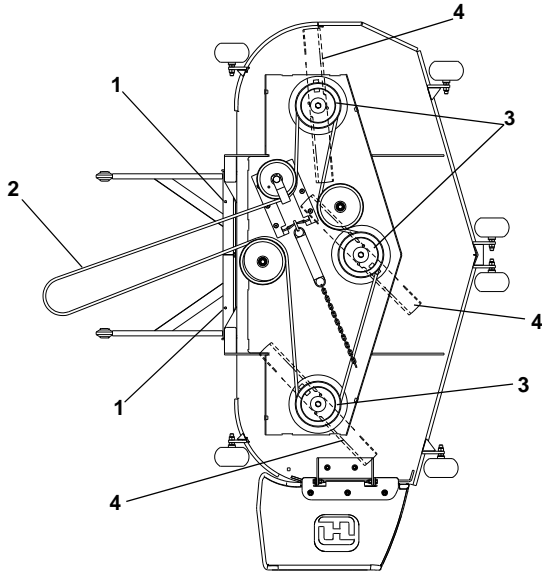


Viewed from bottom of mower

FIG. 55

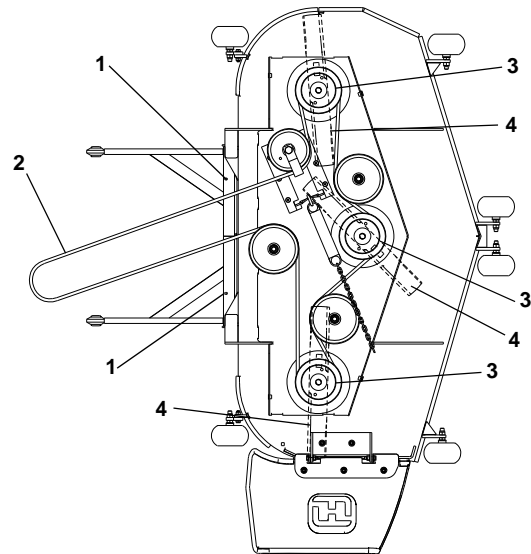
Maintenance Locator Chart

54"/66"/72" XR7 deck



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

60" XR7 deck



60"/72" RD deck

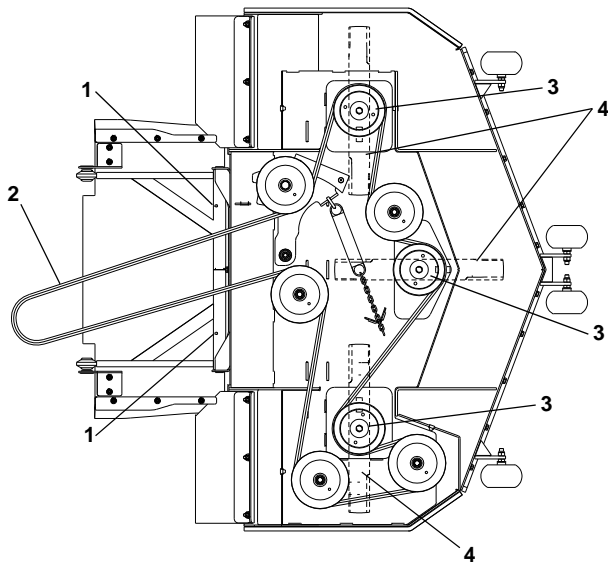


FIG. 56

SERVICE AT INTERVALS INDICATED	WEEKLY OR 50 HOURS	MONTHLY OR 100 HOURS	ANNUALLY OR 500 HOURS
Verify safety start interlock system		Daily	
Check coolant level		Daily	
Visually inspect unit for loose hardware and/or damaged parts		Daily	
Visually inspect tires		Daily	
Check oil level, engine (1)		Daily or every 4 hours	
Clean air intake screen (5)		Daily or every 4 hours	
Clean oil heat exchanger (5)		Daily or every 4 hours	
Check radiator screen (5)		Daily or every 4 hours	
Check fuel level		Daily	
Blades - sharpen & securely fastened		Daily	
Discharge chute - securely in place & in lowest position		Daily	
Clean engine and pump compartment		Daily	
Replace air cleaner paper element (5)		As needed	
Grease deck idler	X		
Grease deck pusher arms	X		
Grease pump idler	X		
Grease deck height pivots	X		
Grease gauge wheel bearings	X		
Change engine oil and filter (1) (4)	X		
Clean cylinder and head fins(a)	X		
Check battery connections	X		
Check tire pressure with a gauge	X		
Check hydraulic oil level	X		
Clean engine exterior (a)	X		
Clean & regap spark plugs (a)		X	
Check pump and deck belt tension and condition (6)		X	
Check fuel and hydraulic lines (7)		X	
Check fuel valve and grommet (7)		X	
Tighten lug nuts on wheels (2)		X	
Change fuel filter			X
Clean or replace hydraulic fill cap			X
Change hydraulic oil and filter (3)			X
Grease deck spindle housings			X
Replace spark plugs			X
Drain & replace engine coolant			X
Clean radiator core (8)			X

NOTES:

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

8. Clean more often under dirty or dusty conditions and during hot weather.

REFERENCES:

a-- Refer to Engine Owner's Manual

NOTE: After completing maintenance cycle (300 hours), repeat cycle.

INTRODUCTION

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

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

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

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

To do this it will be necessary to raise and block the deck in the full up position, using jack stands or blocks, and scrape the build-up from underneath.

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

Torque values

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



Torque values are given below:

	Ft-lbs.	Nm
Wheel (lug) nuts	65-75	88.14-101.7
Wheel motor nut	290-310	393.2-420.4
Blade spindle bolt top	65-75	88.14-101.7
Blade spindle bolt bottom	118	160.01

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

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

NOTE: 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 pressures are:

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

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

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



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

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

Always maintain the correct tire pressure and never over inflate.

Never weld or heat a wheel and tire assembly as an explosion may occur. Welding can weaken or deform a wheel.

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

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

Hour meter

To recognize when your machine needs servicing, check the hour meter and the maintenance schedule. The hour meter shows the number of hours the engine has run, and the maintenance schedule lists the service intervals. "FIG. 57".

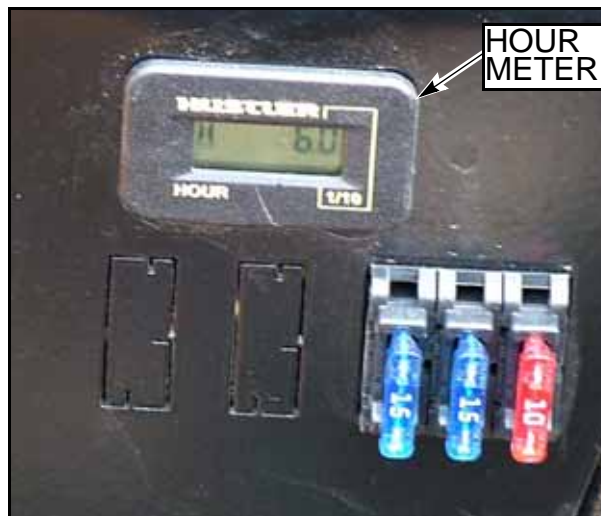


FIG. 57

Lubrication

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

Electrical system

The electrical system is a 12-volt, negative ground. Recommended battery size is a garden mower 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. 58".

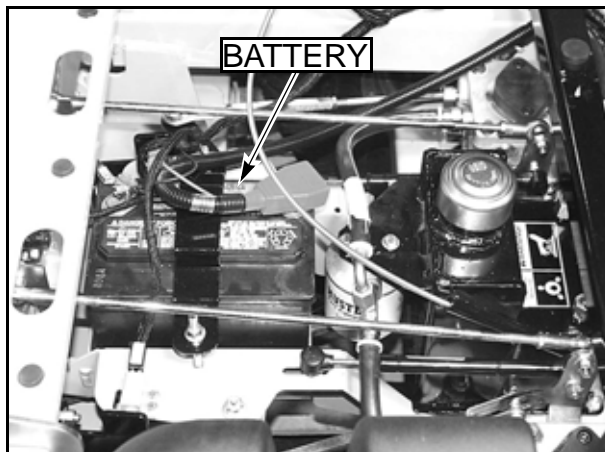


FIG. 58



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 mower 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 mower parts when removing or installing the battery.

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



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

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

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

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

Access to engine and hydraulic pumps

The hydraulic pumps are accessed by lifting the seat platform. The seat platform is hinged at the front. To raise it, release seat latch and tilt seat platform up and forward. The seat platform catch ("FIG. 59") will prevent the seat from going all the way over. However, if more access is desired under the seat platform, the seat platform catch can be raised allowing the seat to pivot more. **Make certain to place the control arms in the park brake position and pivot the arm rests upward before placing the seat platform in the full forward position to prevent arm rest damage.**

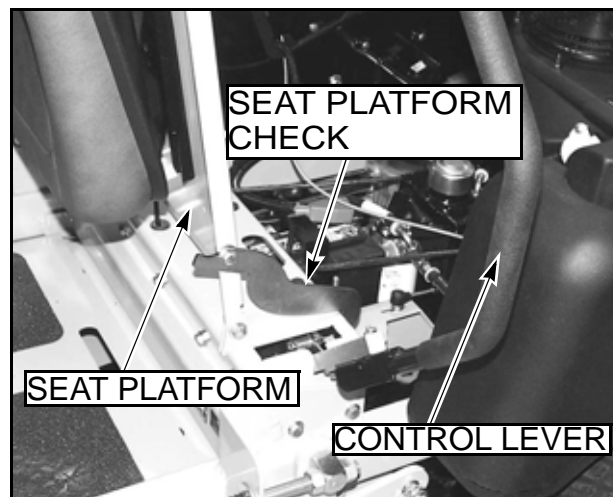


FIG. 59

Hydraulic system

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



WARNING: Hydraulic oil escaping under pressure can penetrate skin. Hydraulic oil may cause infection in a minor cut or opening in the skin. If exposed to hydraulic fluid, see a doctor at once.

Before applying pressure to hydraulic system, make sure all connections are tight and all hoses and lines are in good condition. To find a leak under pressure, use a piece of cardboard or wood — **never** use your hands. Relieve all pressure in the system before disconnecting or working on hydraulic lines. To relieve pressure, lower all attachments and shut off engine.

The 1.0 U.S. gallon (3.79 liter) hydraulic reservoir is located in front of the engine and under the operator's platform "FIG. 60".

Check oil level in hydraulic system after every 50 hours of operation or weekly, whichever occurs first.

Check more often if system appears to be leaking or otherwise malfunctioning.

Fluid level should be 1" from top of reservoir. Use only SAE 20W50 SG, SF/CC, CD service motor oil.

Change hydraulic system filter element ("FIG. 60") after first 50 hours of mower operation, then replace filter and oil in reservoir every 500 hours thereafter.

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

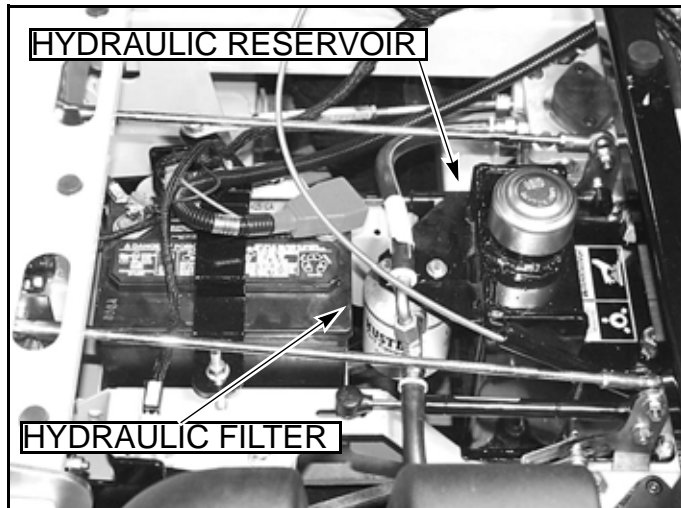


FIG. 60

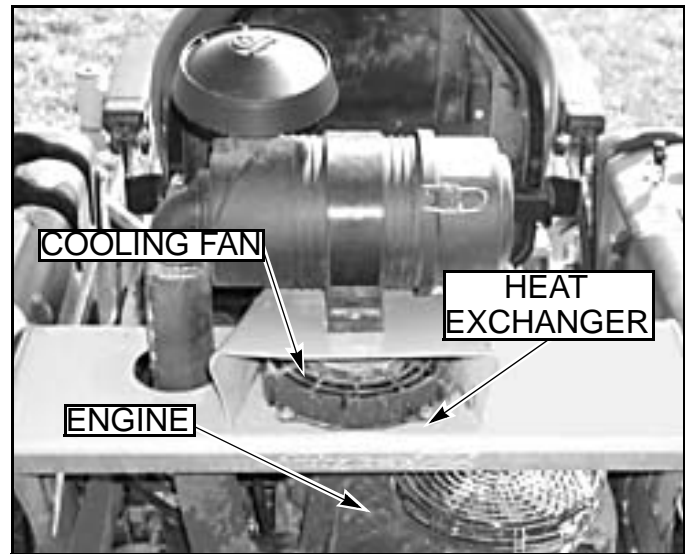


FIG. 61

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

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

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

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

This hydraulic heat exchanger is located above the engine. Air is drawn across the cooling fins by an electric fan located above the heat exchanger "FIG. 61".

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

Fuel system



DANGER: Observe usual fuel handling precautions:

Do not smoke while refueling.

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

Allow engine to cool before storing machine inside a building.

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

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

Refuel outdoors preferably, or in well ventilated areas.

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

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

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

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

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



WARNING: Gasoline is harmful or fatal if swallowed.

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

Avoid prolonged breathing of vapors.

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

Keep gas away from eyes and skin.



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



FIG. 62



FIG. 63

The fuel tanks are located in the mower's fenders. ("FIG. 62") Total capacity for the fuel tanks is 15 U.S. gallon (56.8 liter)

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

The fuel filter ("FIG. 63") is installed in the fuel line between fuel tanks and engine fuel pump. Replace filter annually or after every 500 hours of operation, whichever occurs first.

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

Super Z mowers are equipped with a fuel shutoff valve located on the right fuel tank mount ("FIG. 64"). Rotate the valve to the middle position (shown) to prevent fuel flow to the fuel pump. The forward position allows fuel to flow from the right fuel tank to the fuel pump. The rear position allows fuel to flow from the left fuel tank to the fuel pump. Close this valve to prevent fuel flow to the engine when servicing the fuel system or when transporting the unit on a trailer or truck.

NOTE: Models 928010, 928028 & 928036 are equipped with a fuel shutoff valve located on the right fuel tank mount ("FIG. 65"). Rotate the valve to the forward position to prevent fuel flow to the fuel pump. The middle position (shown) allows fuel to flow from the right fuel tank to the fuel pump. The rear position allows fuel to flow from the left fuel tank to the fuel pump.

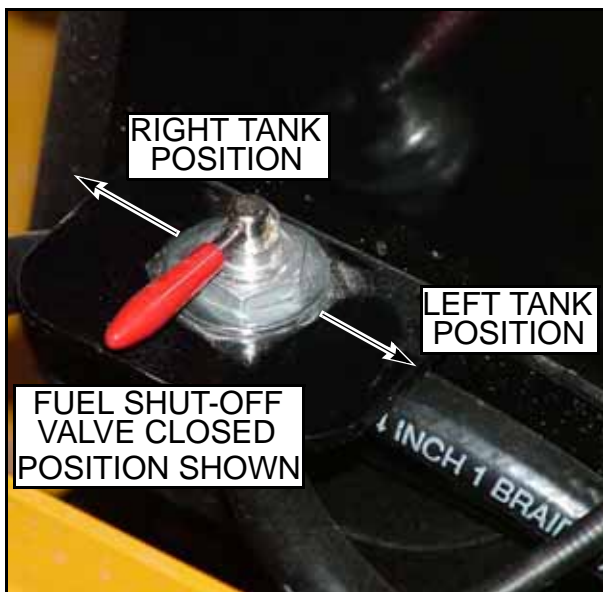


FIG. 64



FIG. 65

Engine oil and filter

Check engine oil daily and after every 4 hours of operation. Crankcase dipstick and oil filler tube are located at the rear of the machine ("FIG. 66"). Mower must be sitting level when checking oil. Refer to engine manual and maintenance schedule for oil recommendation and capacities.

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

The oil drain and oil filter are located at the rear of the engine "FIG. 66".

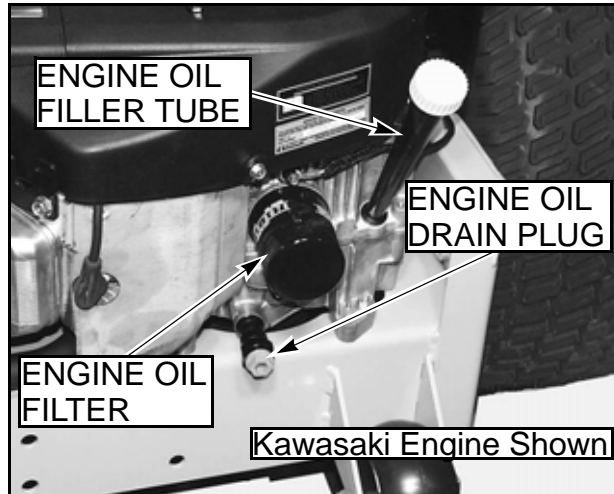


FIG. 66

Engine air filter

Perform engine air filter maintenance per the scheduled maintenance chart. See "SERVICE AT INTERVALS INDICATED" on page 10-31.

A specially designed dry filter is standard equipment on the Hustler Z and Super Z mowers and supplies clean combustion air to the engine "FIG. 67".

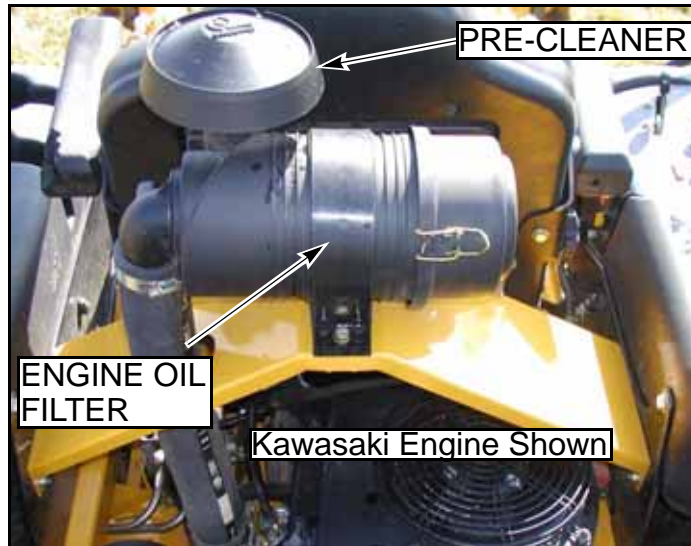


FIG. 67

SAFETY FILTER

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

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

RECOMMENDED SERVICE PROCEDURE

Many engine failures can be attributed to improper air cleaner servicing. Ingested dust and dirt will cause

cylinder, piston and bearing damage in a few hours. "Dusted" engines will result from:

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

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

Overservicing

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

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

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

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

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

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

Improper installation of an air filter element

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

Damaged filter, seals or canister

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

Incorrect air cleaner element

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

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

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

The filter element must be sufficient size and construction to withstand stresses, caused by rapid cycling of

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

Owners should be reminded that failure to use original equipment replacement parts is an "alteration" and will not be considered for warranty in the event of engine damage.

Recommended service procedure

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

Air restriction indicator

Any unit with a Kohler or Kawasaki engine will have an air restriction indicator installed in the air cleaner "FIG. 68".

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

Reset the indicator by pushing in on the yellow button after each element change "FIG. 68"

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



FIG. 68

Cooling system

Applies to models 927921, 927939, 927947 & 927954 only

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

Visually inspect the system daily prior to operating mower. Be sure the engine is level. Check the coolant level only when the system is cold. Check the coolant level only at the overflow reservoir "FIG. 69". The cooling system is a closed type. **Never open the radiator cap.** Doing so may induce air into the cooling

system and may cause overheating. The coolant level should be between the "H" and "L" marks.

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



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

The system should be drained, flushed and refilled with fresh solution after every 500 hours of operation. To drain the radiator remove the overflow reservoir cap and remove the coolant drain plug. When draining the system use a flexible funnel to keep the coolant off the muffler "FIG. 70".

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

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

The radiator screen can be removed by disengaging the latch at the rear of screen and pulling the screen towards the rear of mower.

IMPORTANT: Take special care not to bend the screen mount.

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

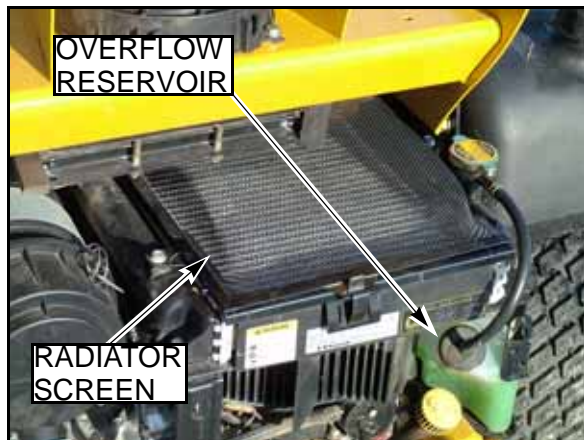


FIG. 69



FIG. 70

General engine maintenance

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

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

Belt replacement

"FIG. 71", "FIG. 72", "FIG. 73" & "FIG. 74" show diagrams and descriptions of the unit's belt drive systems. Inspect these belts frequently for wear and serviceability. Replace a belt that shows signs of severe cuts, tears, separation, weather checking and cracking, or burns caused by slipping. Slight raveling of belt covering does not indicate failure, trim ravelings with a sharp knife.

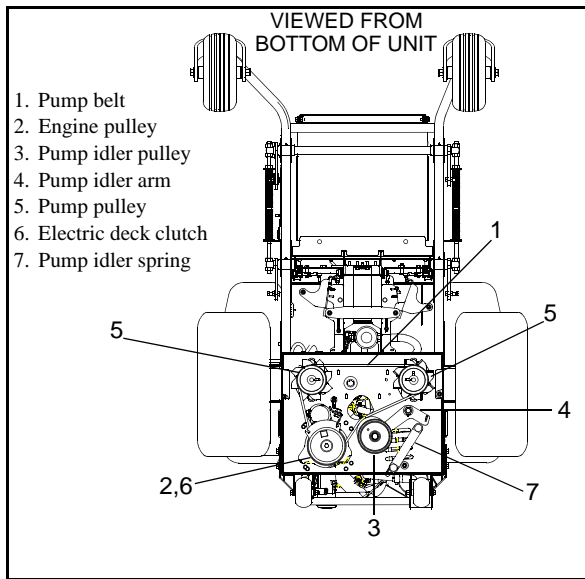


FIG. 71

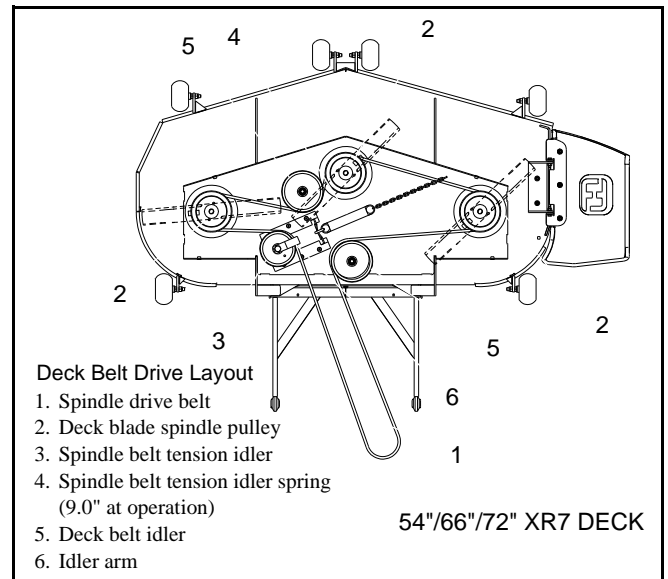


FIG. 72

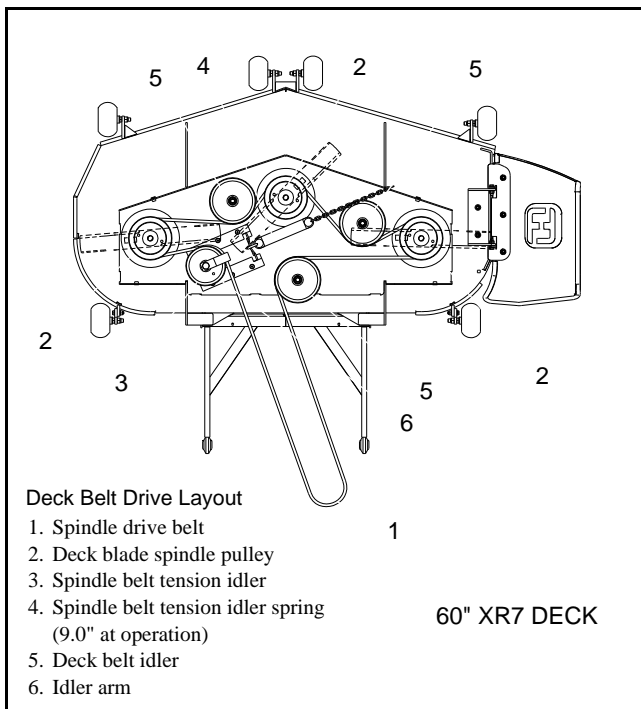


FIG. 73

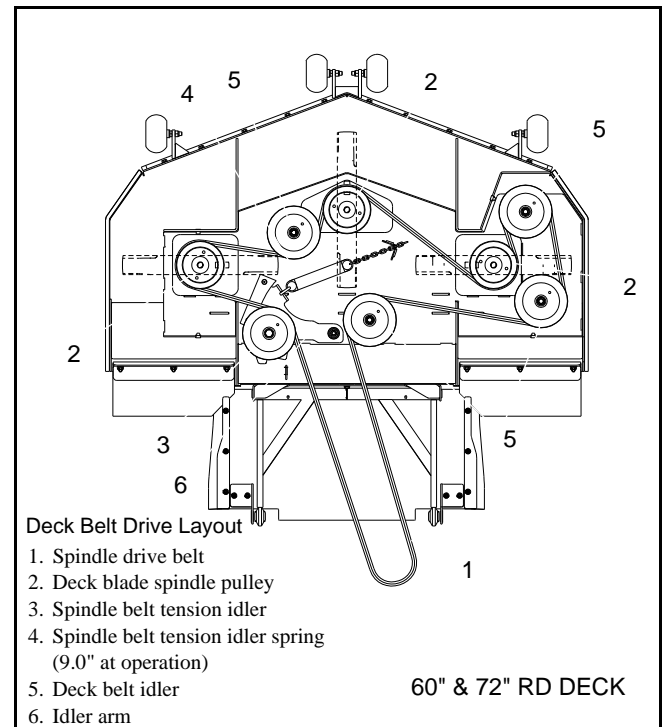


FIG. 74



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.

Mower blade maintenance

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

Replace any blade which is bent, cracked or broken.



WARNING: INever attempt to straighten a bent blade by heating, or weld a cracked or broken blade as the blade may break and cause serious injury.



DANGER: INever work with blades while engine is running or deck clutch switch is engaged (on). Always place deck clutch switch in the disengaged position, place control levers in the park brake position and turn engine off and disconnect negative battery cable. Block up mower when you must work under it. Wear gloves when handling blades. Always check for blade damage if mower strikes rock, branch or other foreign object during mowing!



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

Mower blade removal

Use a 15/16" wrench to remove the 5/8" cap screw holding the blade to the spindle shaft from underneath. Sharpen the blades on a grinder following pattern as shown "FIG. 77". Touch-up sharpening can be done with a file.

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

Lay the blade on a flat surface and check for distortion "FIG. 75" and "FIG. 76". Replace any distorted blade.

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



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



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



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

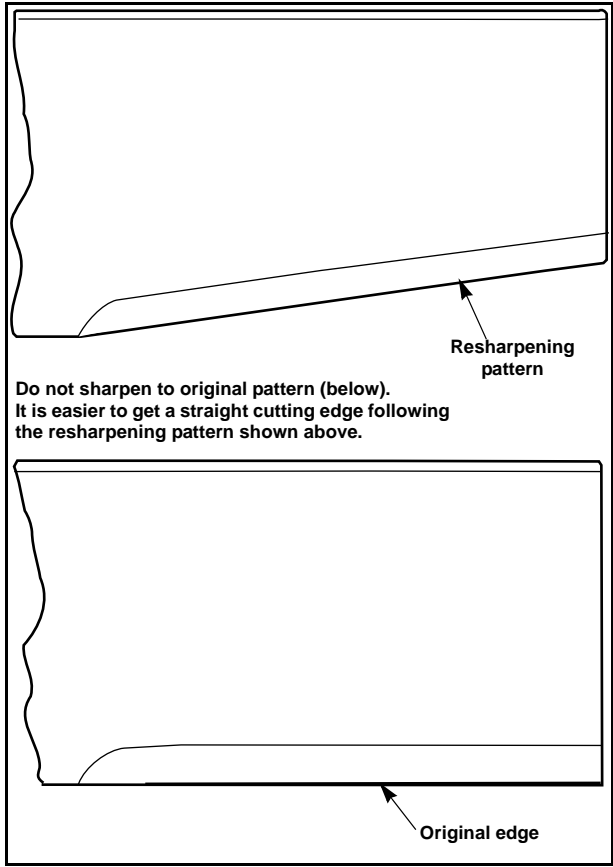


FIG. 77

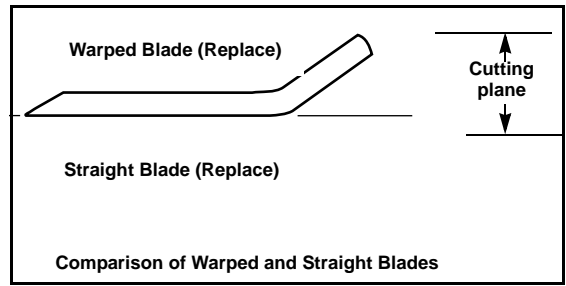


FIG. 75

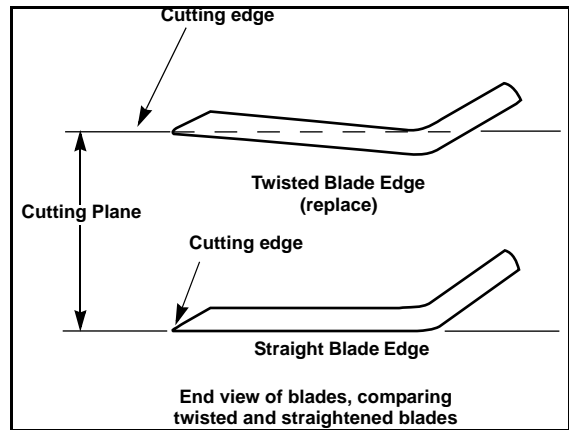


FIG. 76

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Adjustment

Introduction

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

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

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

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

Steering linkage

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

The mower steering has been factory adjusted to eliminate creeping when the control levers are in the neutral position "FIG. 78". However, should the mower begin to creep, the control lever linkage can be adjusted as follows:

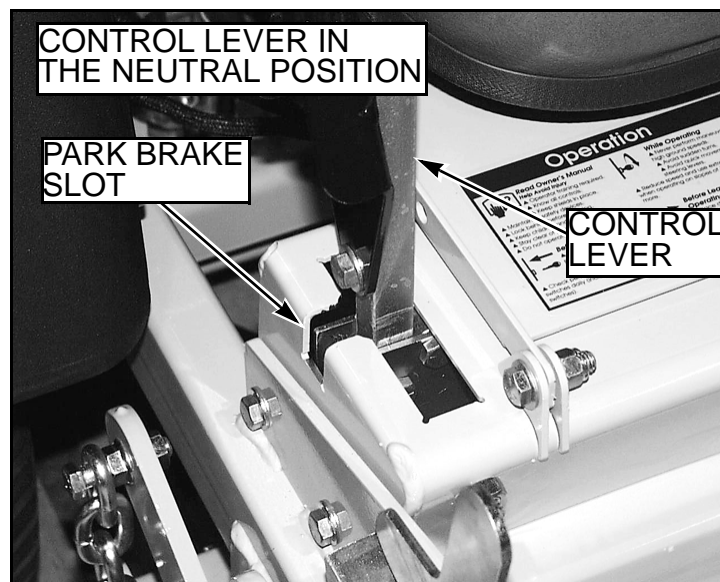


FIG. 78

Control Lever Neutral Adjustment

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

Fine adjustment to the unit's steering is made with the adjustable pump linkage rods located between the control lever and pump arms "FIG. 79".

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

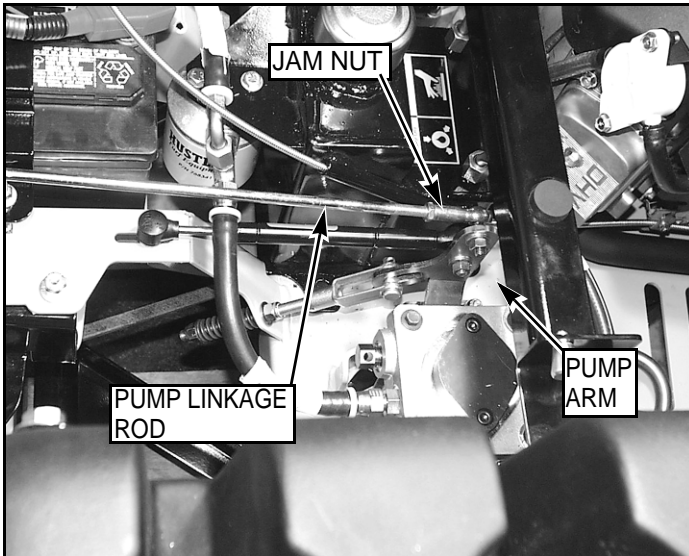


FIG. 79

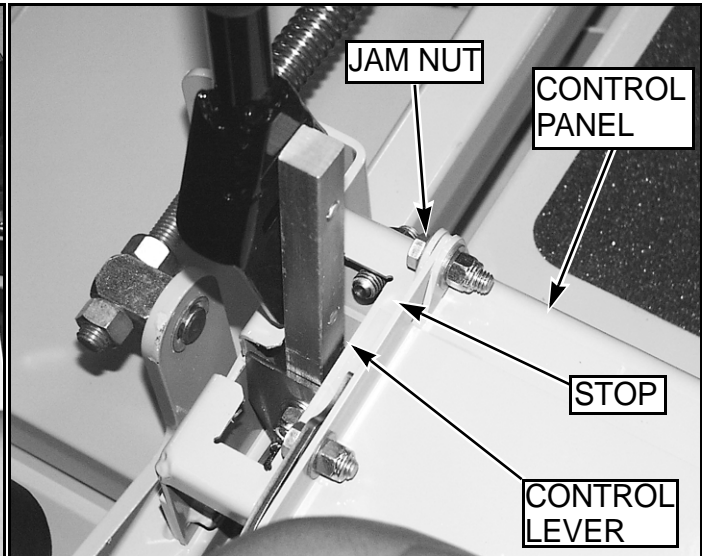


FIG. 80

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

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



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

2. Position the control lever in the neutral position. Disengage the deck clutch.
3. Start the engine and observe which way the wheels are rotating.
4. If wheel(s) are rotating forward, loosen the jam nuts on the pump linkage rods and rotate the rod to lengthen the steering control linkage until the wheel(s) come to a stop "FIG. 79". Repeat for the opposite side if necessary.

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

5. If wheel(s) are rotating in reverse then loosen the jam nuts on the pump linkage rods and rotate the rod to shorten the steering control linkage until the wheel(s) come to a stop "FIG. 79". Repeat for the opposite side if necessary.

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

6. When both wheels remain in neutral, tighten the jam nuts to lock the turnbuckle in place.
7. Test again by moving the control levers forward and backward before returning them to the neutral position. If the tires are in neutral, the unit is now ready for operation.
8. After adjusting for neutral it may be necessary to re-adjust the control lever stop "FIG. 80".

Control lever stops

The control lever stops "FIG. 80" are designed to do two things: First, and most important, they must keep the pumps from bottoming out internally. Secondly, the stops may be adjusted to help drive straight when the control levers are pushed forward against the stops.

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

1. To make the first adjustment the mower engine must NOT be running.
2. Check to make sure the control levers are against the stops before the pumps are bottomed out internally.

To do this, gently and slowly move the control levers forward and feel if there is some resistance on the pump lever before the control levers hit the stops. Check one side at a time. If you sense that the

pump arms are stopping the forward motion of the control arms, loosen the jam nut on the adjustable stop of the corresponding side and turn the stop (set screw) inward to stop the control levers slightly before the pump bottoms out. Lock in place when the adjustment is correct by re-tightening the jam nut.

3. Do this for each side.

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

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

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

Steering dampener

The steering dampener, "FIG. 81", is spring loaded to return the control levers to the neutral position from the reverse position. This gives the operator a sense of neutral during operation.

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

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

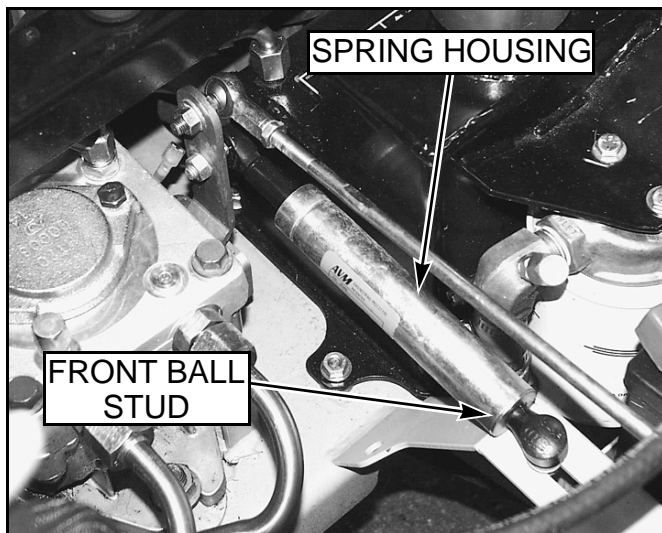


FIG. 81

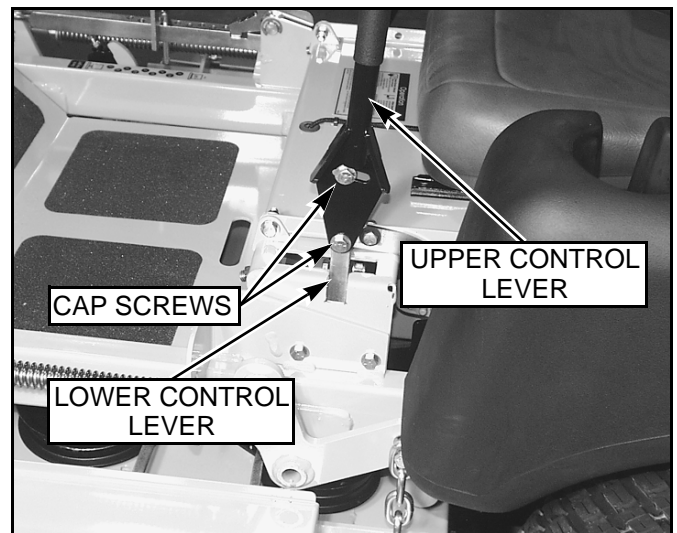


FIG. 82

Control lever adjustment

The control levers can be adjusted for operator comfort. By loosening the cap screws that attaches the upper control lever to the lower lever "FIG. 82", the upper control lever can be pivoted to fit the operator's personal preference.

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

Park brake adjustment

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

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



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

NOTE: The front brake link is not adjustable. "FIG. 83"

2. Raise and block the mower up so the drive wheels are off of the floor.
3. Open the hydraulic pump's bypass valve "FIG. 84", on the side that is being adjusted, by turning bypass valves counter clockwise one-half to one revolution. The valve stems on each hydraulic pump are located near the top and are identified as a hex stud.

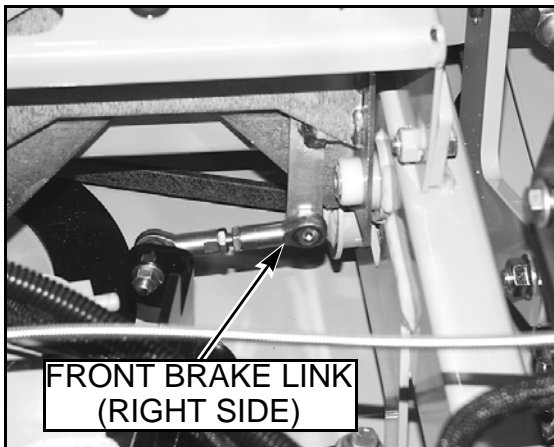


FIG. 83

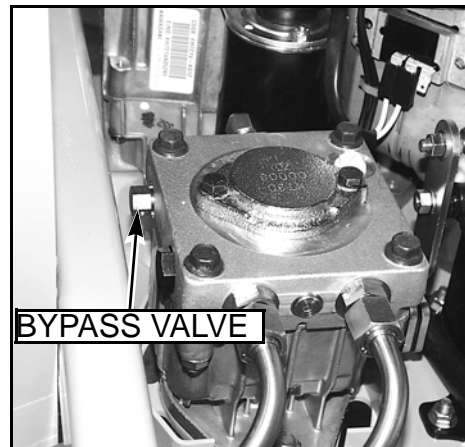


FIG. 84

4. Rotate the tire. The tire should rotate. Remember hydraulic oil resistance will prevent the tire from rotating freely even with the bypass valves open. There should be no resistance from the brakes at this point.
5. Move the control lever to where it is just inside (1/8") the park brake slot "FIG. 85".
NOTE: When the control lever is against the outside edge of the the slot, the brakes should **not** be engaged.
6. Rotate the tire. If the brake is adjusted properly the tire will still rotate but friction will start to become noticeable here. However, if no brake resistance is noticed, the brake needs adjusted as follows:
7. Loosen the brake linkage jam nuts "FIG. 86".

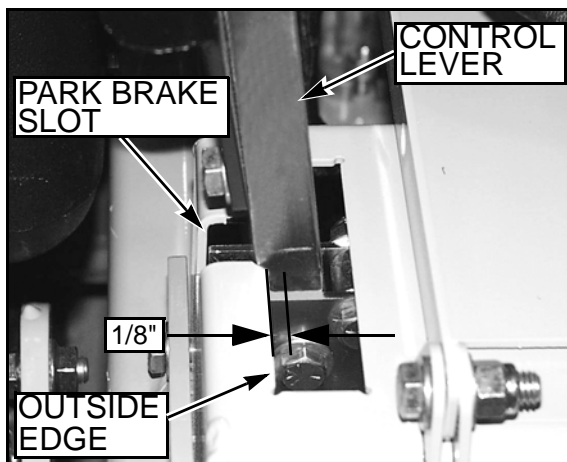


FIG. 85

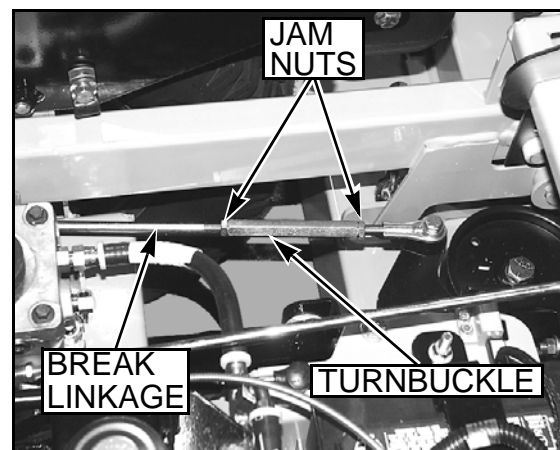


FIG. 86

8. Rotate the tire and at the same time rotate the turnbuckle to shorten the length of the brake linkage to increase the brake pressure. When you feel the brake begin to engage, stop adjusting the turnbuckle. Re-tighten the jam nuts on the turnbuckle.
9. Place the control lever in the park brake slot "FIG. 85". The tire should not rotate when the control lever is in the park brake position.
10. Place the control lever in the neutral position. The tire should rotate freely.
11. Close the hydraulic pump's bypass valve.
12. Repeat steps 3 thru 11 for the other side.
13. Remove the jack stands and lower the unit. It is now ready to operate.

Hydraulic pump belt adjustment

The pump drive belt tension remains constant by means of a tension idler and spring "FIG. 87". There is no tension adjustment of this belt.

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



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

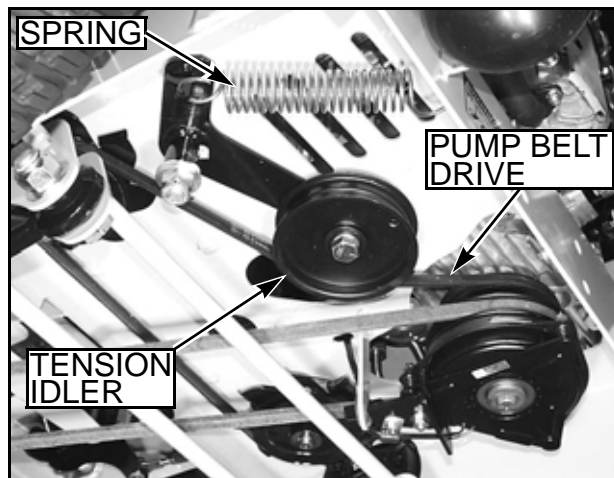


FIG. 87

Deck drive belt adjustment

The spindle belt tension remains constant by means of a tension idler and spring "FIG. 89". 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. 89". Installed spring length should be 9.0" \pm .3" (22.8 cm \pm .76 cm) originally with adjustments of .60" (15.2mm) per chain link "FIG. 88".

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



FIG. 89

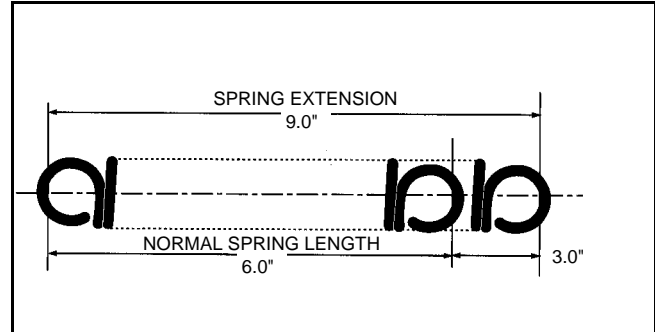


FIG. 88

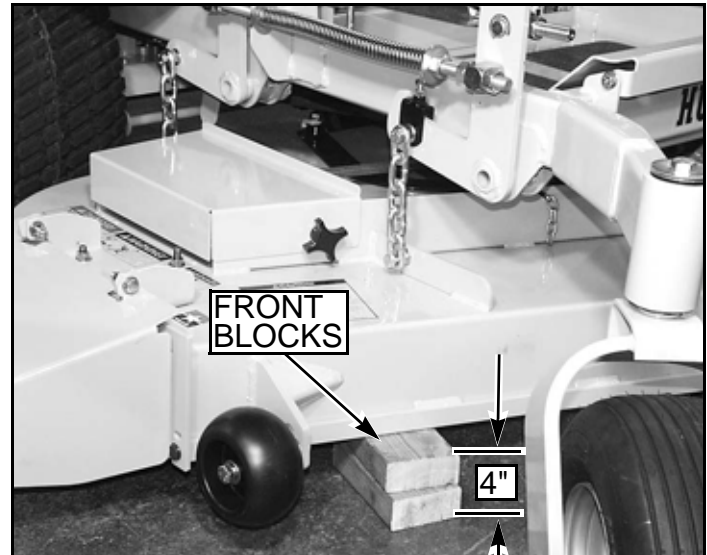


FIG. 90

Engine RPM setting

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

Deck leveling and height adjustment

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

Deck level adjustments

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

1. Check tire pressures to make certain they are properly inflated before starting to level deck. The recommended pressures are as follows:
 Drive wheels tire pressure 8 - 12 psi
 Gauge wheels tire pressure 8 - 12 psi



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

2. Park the unit on a flat surface.
3. Raise deck and place 3.25" block under the back of the deck and a 4" block under the front of the deck "FIG. 90". This will set the cutting height at 3-1/2".
NOTE: Back of deck will automatically be set approximately 1/4" higher.
4. Set cutting height at 3-1/2" in the height indicator by placing the height adjusting stop

in the 3-1/2" hole, and turning the height stop so that the pin side is against the stop handle "FIG. 91"

5. Clamp the height adjusting stop against the stop handle "FIG. 91". This will assure that the height will not move during the setting process. Otherwise, spring pressure from the deck lift springs will tend to pull the stop away from the handle.

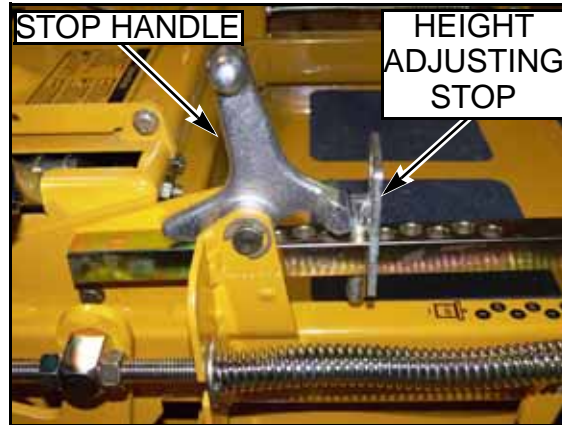


FIG. 91

6. Loosen all nuts on the deck lift threaded rods, and the hardware on the adjuster (on the right front), until all the deck lift chains are loose, and the deck is sitting tightly on all four blocks "FIG. 92", "FIG. 93", "FIG. 94".

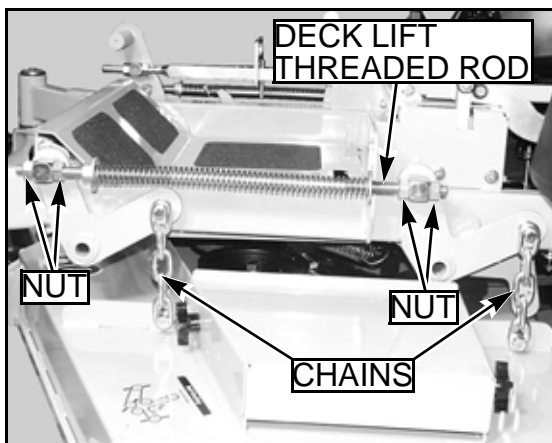


FIG. 92

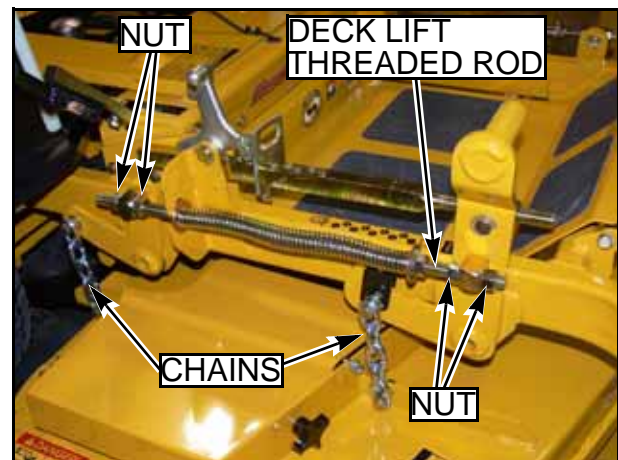


FIG. 93

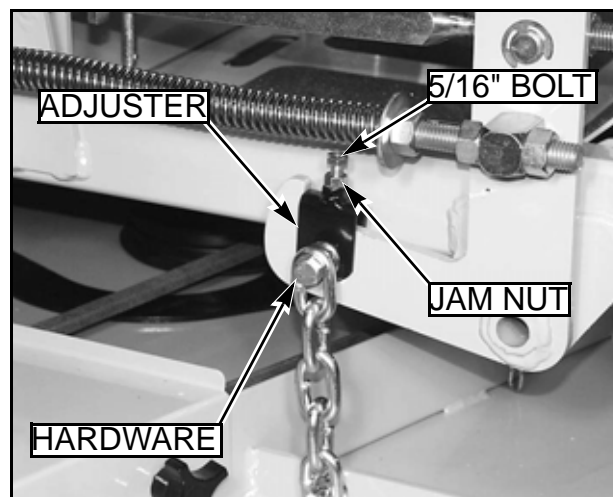


FIG. 94

7. Loosen the two nuts on the front of height indicator so that the foot pedal is free "FIG. 95".

8. Start the leveling process on the left front of the mower.
9. Set the amount of threads protruding on the deck lift rod from the lift block at approximately 1" "FIG. 96".
10. Jam both nuts against the block.
11. Push or pull on the deck lift foot pedal until the chain on the left front just becomes tight, making sure that the deck stays tight against the 4" block.
12. While keeping the chain tight, tighten the nuts against the deck lift block on the height indicator rod "FIG. 95".
13. Go to the right front of the mower.
14. Loosen the 5/16" jam nut on the adjuster lift chain "FIG. 94", and back the adjuster bolt out to allow the adjuster to move up and down freely.
15. Be sure that adjuster is free to move up and down.
16. Tighten the adjuster bolt until the chain just becomes tight, making sure that the deck stays tight against the 4" block.
17. Tighten the adjuster bolt jam nut to prevent the adjuster bolt from moving "FIG. 94".
18. Tighten the hardware holding the chain and adjuster onto the deck lift arm.
19. Go to the right rear of the mower.
20. Make sure that there is still slack in the chain. If not, loosen the two nuts on the block holding the threaded rod until there is slack in the deck lift chain "FIG. 93".
21. Tighten the appropriate nut until the chain just becomes tight, making sure that the deck stays tight against the 3" block.
22. Tighten the other nut on the opposite side of the block, and jam them tightly together against the block.
23. Go to the left rear of the mower.
24. Make sure that there is still slack in the chain. If not, loosen the two nuts on the block holding the threaded rod until there is slack in the deck lift chain "FIG. 92".
25. Tighten the appropriate nut until the chain just becomes tight.
26. Tighten the other nut on the opposite side of the block, and jam them tightly together against the block.
27. Compress the deck lift assist springs so that there is 1" of space between the front nut and on the spring and the rear nut on the deck lift block "FIG. 96". Typical both sides.
28. When completed, all chains will be tight, and deck cutting height will be set to the deck height indicator.

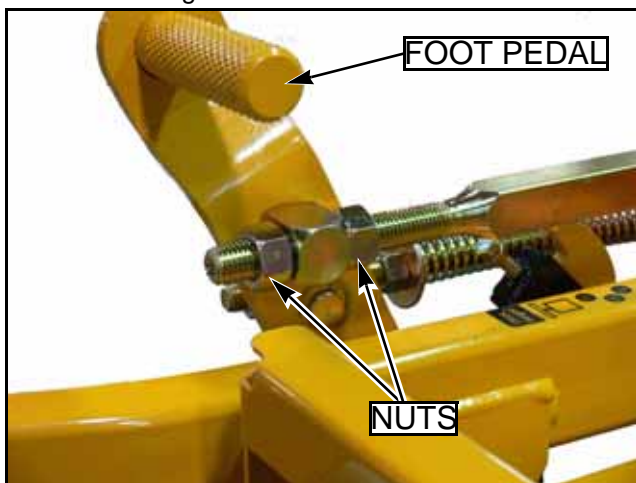


FIG. 95

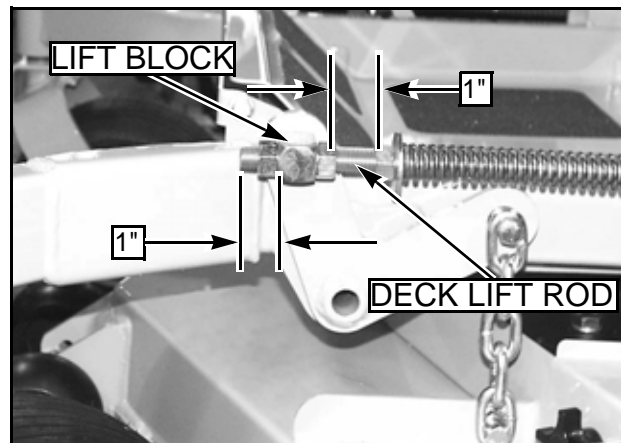


FIG. 96

Numerical Index

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