



**942832K**

**BC PROCAT KAW FX651V CARB W/52 SIDE DISCHARGE**

**942833K**

**BC PROCAT KAW FX730V CARB W/61 SIDE DISCHARGE**

**MAN 4172801**  
Rev. A 08-2015

OPERATOR'S MANUAL 4172802



[www.bobcatturf.com](http://www.bobcatturf.com)

# PARTS MANUAL

**CALIFORNIA**

**Proposition 65 Warning**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

**⚠ WARNING**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Californie Proposition 65 Avertissement**

Les échappements des moteurs diesel et certains de leurs composés sont reconnus par l'Etat de Californie pour être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.

**⚠ AVERTISSEMENT**

L'émission du moteur de ce matériel contient des produits chimiques que l'Etat de Californie considère être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.

**California Advertencia de la Proposicion 65**

El estado de California hace saber que los gases de escape de los motores diesel y algunos de sus componentes producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.

**⚠ ADVERTENCIA**

El estado de California hace saber que los gases de escape de este producto contienen productos químicos que producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.

**CALIFORNIA**

**Proposition 65 Warning**

Battery posts, terminals, wiring insulation, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.  
**WASH HANDS AFTER HANDLING.**

## IMPORTANT MESSAGE

Thank you for purchasing this Schiller Grounds Care, Inc. product. You have purchased a world class mowing product, one of the best designed and built anywhere.

This machine comes with an Operation and Safety Manual and a separate Setup, Parts and Maintenance Manual. The useful life and good service you receive from this machine depends to a large extent on how well you read and understand these manuals. Treat your machine properly, lubricate and adjust it as instructed, and it will give you many years of reliable service.

Your safe use of this Schiller Grounds Care, Inc. product is one of our prime design objectives. Many safety features are built in, but we also rely on your good sense and care to achieve accident-free operation. For best protection, study the manuals thoroughly. Learn the proper operation of all controls. Observe all safety precautions. Follow all instructions and warnings completely. Do not remove or defeat any safety features. Make sure those who operate this machine are as well informed and careful in its use as you are.

See a Schiller Grounds Care, Inc. dealer for any service or parts needed. Schiller Grounds Care, Inc. service ensures that you continue to receive the best results possible from Schiller Grounds Care, Inc. products. You can trust Schiller Grounds Care, Inc. replacement parts because they are manufactured with the same high precision and quality as the original parts.

Schiller Grounds Care, Inc. designs and builds its equipment to serve many years in a safe and productive manner. For longest life, use this machine only as directed in the manuals, keep it in good repair and follow safety warnings and instructions. You'll always be glad you did.

**Schiller Grounds Care, Inc.**  
**One Bob Cat Lane**  
**Johnson Creek, WI 53038-0469**

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**NOTICE !!!**

Unauthorized modifications may present **extreme** safety hazards to operators and bystanders and could also result in product damage.

Schiller Grounds Care, Inc. strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Schiller Grounds Care, Inc. Engineering Department. Any Schiller Grounds Care, Inc. product that is altered, modified or changed in any manner not specifically authorized after original manufacture-including the addition of "after-market" accessories or component parts not specifically approved by CGC, Inc.-will result in the Schiller Grounds Care, Inc. Warranty being voided.

Any and all liability for personal injury and/or property damage caused by any unauthorized modifications, add-on accessories or products not approved by Schiller Grounds Care, Inc. will be considered the responsibility of the individual(s) or company designing and/or making such changes. Schiller Grounds Care, Inc. will vigorously pursue full indemnification and costs from any party responsible for such unauthorized post-manufacture modifications and/or accessories should personal injury and/or property damage result.



This Operator's Manual should be regarded as part of the machine. Suppliers of both new and second-hand machines must make sure that this manual is provided with the machine.

**¡LEA EL INSTRUCTIVO!**

Si no lee Ingles, pida ayuda a alguien que si lo lea para que le traduzca las medidas de seguridad.

***Schiller Grounds Care, Inc.***

One Bobcat Lane  
Johnson Creek, WI 53038 U.S.A  
Phone: 920-699-2000  
Fax: 920-699-3683

MODEL NUMBER

SERIAL NUMBER



This symbol means:  
**ATTENTION!**  
**BECOME ALERT!**

Your safety and the safety of others is involved.

**Signal word definitions:**

The signal words below are used to identify levels of hazard seriousness. These words appear in this manual and on the safety labels attached to Schiller Grounds Care, Inc. machines. For your safety and the safety of others, read and follow the information given with these signal words and/or the symbol shown above.

**⚠ DANGER**

**DANGER** indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

**⚠ WARNING**

**WARNING** indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

**⚠ CAUTION**

**CAUTION** indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury. It may also be used to alert against unsafe practices or property damage.

**CAUTION**

**CAUTION** used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **MAY** result in property damage

**MODEL NUMBER:** This number appears on sales literature, technical manuals and price lists.

**SERIAL NUMBER:** This number appears only on your mower. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information. Located under seat plate on Frame of unit.

## TOOLS REQUIRED FOR ASSEMBLY

- Wrecking bar
- Claw hammer
- Ratchets: 3/8", e
- Sockets: 9/16", 3/4"
- Wrenches: 3/8", 9/16", 3/4"
- Straight edge
- Tire pressure gauge
- Blocks (for deck leveling)

**NOTE:** All references below to the "right" or "left" are with respect to an operator at the controls.

### 1. UNCRATE UNIT

Discard packing materials. Remove and discard shipping brackets. Tighten caster wheel axle bolts against caster axle spanner bushings.

2. **72" in. deck models:** Tires need to be installed using eight 64187-03 wheel nuts included in hardware bag. Torque nut to 75 - 110 ft./lbs.
3. Set rear tire pressures to 12 lbs/in<sup>2</sup> (0.8 kg/cm<sup>2</sup>). Tires are overinflated for shipping. Front tires should be 15 lbs/in<sup>2</sup> (1.05kg/cm<sup>2</sup>).

### 4. DECK LEVELING

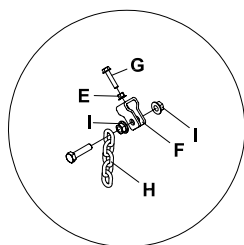
- a) Park the machine on a smooth, level surface. Raise the deck to the transport position.
- b) **SIDE DISCHARGE:** Lower the deck onto a pair of equal height blocks **A** under the rear corners of the deck. Place another pair of adjustable blocks **A** under the front of the deck so that the deck top is level.

**REAR DISCHARGE:** Lower the deck onto a pair of equal height blocks **A** under the rear corners of the deck. Place another pair of adjustable blocks **A** under the front of the deck so that the deck is level.

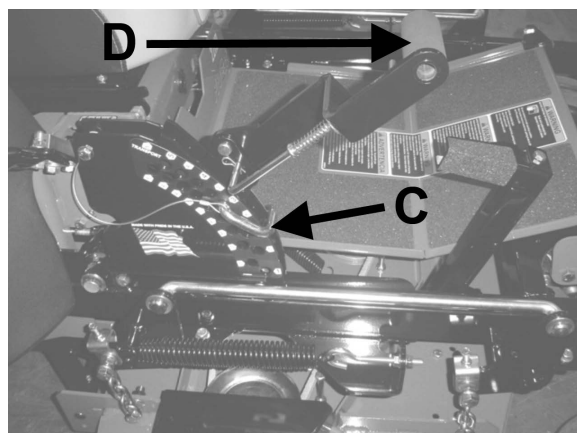
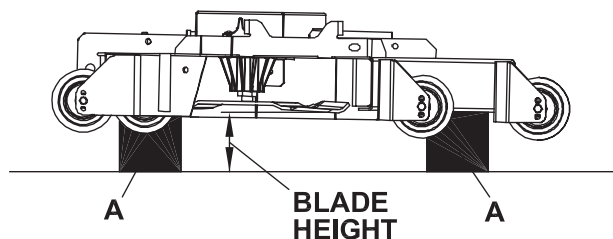
**NOTE:** The front and rear of the deck are at different heights.

- c) Measure the height of the blade cutting edge above the ground. Remove pin **C** and set the height of cut lever **D** to that height.
- d) Loosen nuts **I** at all four corners of the deck.

**NOTE:** This will relieve tension on chains **H**.

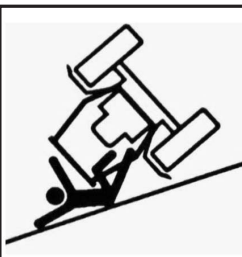
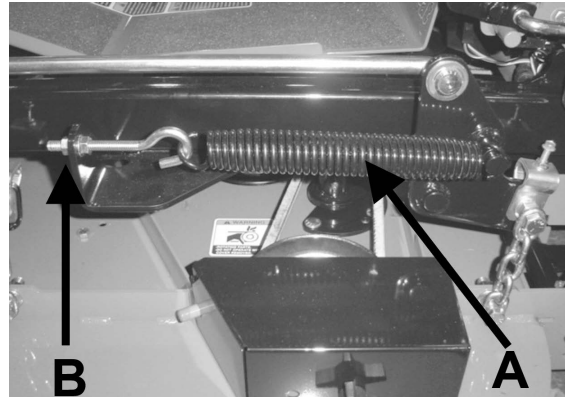


- e) Loosen the jam nuts **E** on the height of cut clips **F** and adjusting screws **G**. Turn the adjusting screws **G** until the play is taken out of the chains **H** at all four corners. Tighten the jam nuts **E** against the clips **F** and at the adjusting screws **G**. Retighten nuts **I** at this time.



## 5. COUNTERBALANCE SPRINGS

- Raise the cutterdeck all the way.
- Adjust the spring **A** with nut **B**:  
Approximately 1" of threads should be extending past the spring mounting bracket at nut **B**.  
The springs may be tightened or loosened from this point according to personal preference.



### ⚠ WARNING

SERIOUS INJURY OR DEATH MAY RESULT FROM MACHINE ROLLOVER

- DO NOT OPERATE MACHINE ON STEEP SLOPES OR NEAR DROP OFFS
- ALWAYS USE SEAT BELTS WITH ROPS IN RAISED POSITION
- AVOID SHARP AND/OR QUICK TURNS
- DO NOT EXCEED THE MACHINE WEIGHT RATING OF THE ROPS

### ⚠ WARNING

ROLLOVER MAY CAUSE PERMANENT INJURY OR DEATH.

- ROPS RAISES THE CENTER OF GRAVITY AND REDUCES STABILITY ON SLOPES.
- SUDDEN STARTS OR TURNS ON RAMPS OR SLOPES CAN CAUSE OVERTURN.
- USE GREATER CARE ON RAMPS AND AS THE SLOPE INCREASES.

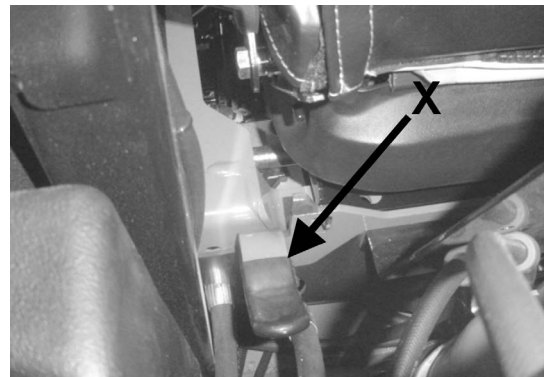
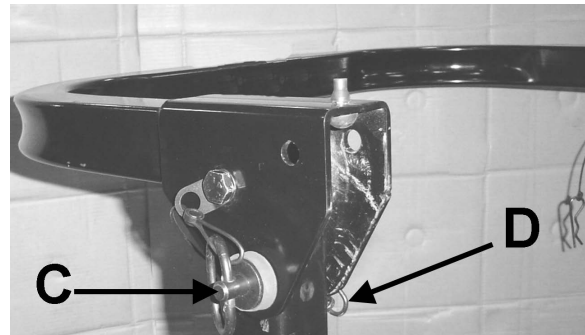
## 6. ROPS (Roll Over Protection Structure)

The ROPS reduces the risk of serious or fatal injury in the unlikely event of a tip over, although the system cannot protect the operator from all possible injuries. It is not designed, made, or intended to provide protection for a machine that is driven off an embankment, retaining wall or similar situation. A ROPS does not replace the need to exercise care when operating on slopes. **DO NOT USE SEATBELT WHEN ROPS IS IN THE LOWERED POSITON.**

IMPORTANT:

- Do not cut, drill, modify or repair a ROPS structure in any manner..
- Always replace a damaged ROPS.
- Inspect roll bar and seat belts for damage or loose hardware before use. Tighten/replace any loose/damaged hardware. Replace worn or damaged seat belts.

**SET UP:** Remove cotter pin **D** from hitch pin **C**. Pull out hitch pin **C**, rotate upper hoop to the upright position. Reinstall hitch pin **C**. Reinstall cotter Pin **D** through hitch pin **C**.



Ensure that seat plate is secured using spring-loaded latch. To flip seat forward, push down on handle **X**

### ⚠ WARNING

This ROPS is certified for use on machines with a maximum gross vehicle weight (GVW) of 2000 LB. The GVW includes the weight of the base machine, operator, fuel, ROPS and any other attachments and payloads. When attachments are added, causing the GVW of the machine to be more than 2000 LB., the ROPS may not provide adequate protection resulting in serious injury or death. Use caution when installing attachments and **DO NOT EXCEED** the GVW rating of the ROPS.



## 7. FINAL PREPARATIONS

- Check the engine and hydraulic oil levels. Top up with the correct oil if necessary. Use SAE 10W30 motor oil for the engine. Use fresh, clean SAE 15W40 or SAE 20W50 motor oil for the hydraulic system. After running for one hour, let hydraulic system oil cool. When cold check levels.
- Insure battery cables are connected properly.

### **WARNING**

Use insulated tools, wear protective glasses or goggles and protective clothing when working with batteries. Read and obey the battery manufacturer's instructions.

Be certain the ignition switch is OFF and the key has been removed before servicing the battery.

- a) Verify battery polarity before connecting or disconnecting the battery cables.
  - b) When installing the battery, always assemble the RED, positive ( + ) battery cable first and the ground, BLACK, negative ( - ) cable last.
  - c) Tighten cables securely to battery terminals and apply a light coat of silicone dielectric grease to terminals and cable ends to prevent corrosion. Keep terminal covers in place.
- Read Operation and Safety Manual before starting.
  - Deck can be adjusted to allow for the best horsepower, best quality of cut, or best priping. See deck leveling procedure in the Adjustments Section in this manual to set as desired.
  - Run engine at full RPM for 5 minutes before engaging blades to allow the engine to be fully lubricated before load is applied.
  - Check the hydrostat neutral adjustment. Neutral is set at the factory but may require readjustment if air trapped during the initial oil fill has worked out of the system. See adjustments section later in this manual.
  - Do not use the machine without an approved grass collector, the grass discharge chute or mulching plates correctly fitted.

MAINTENANCE OPERATION	Maintenance is an ongoing job. These intervals are maximum times between maintenance operations. Perform more often under severe conditions.						
	FIRST 5 HOURS	DAILY	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY 200 HOURS	EVERY 500 HOURS
<b>ENGINE</b>							
Consult the engine manual for additional information and instructions							
Check/Top Off Engine Coolant Level (Where Applicable)		X					
Check/Top Off Oil Level		X					
Check For Leaks		X					
Clean Air Intake Screen		X					
Clean Air Cleaner Precleaner			X*				
Clean Air Cleaner Element					X	X**	
Clean Cooling Fins					X		
Change Oil And Filter	X	See engine manufacturer's manual					
Check/Replace Spark Plugs						X	
* N/A IF EQUIPPED WITH HEAVY DUTY CYCLONIC AIR CLEANER							
**IF EQUIPPED WITH HEAVY DUTY CYCLONIC AIR CLEANER							
<b>HYDRAULICS</b>							
Check For Leaks	X	X					
Check/Top Off Oil Level	X				X		
Change Oil And Filter	X						X
<b>MACHINE</b>							
Check Interlock Operation		X					
Check Tire Pressures		X					
Check/Top Off Battery					X		
Lubricate All Points						X	X



NOTES

GENERAL	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS
Check Tire Pressures												
Lubricate All Points												
Check Nuts & Bolts												
ENGINE												
Check Engine Coolant Level (Where Applicable)												
Check Oil Level												
Change Oil												
Clean Air Cleaner Element												
Clean Cooling Fins												
Replace Air Cleaner Element												
Clean & Gap Spark Plugs												
NOTE: After first 5 hours of operation replace engine oil, hydraulic oil and both filters.												

## CHECK DAILY

### Operator Presence Interlock System - Start Operation

For the engine to crank, the parking brake must be on, the PTO (blades) off and traction levers in the neutral lock position. Sit in the seat and check, one by one, if the engine will crank with the parking brake off, the blades on, and either traction lever out of neutral lock. Also, make sure engine coolant temperature gauge light flashes upon turning key to the **ON** position.

### Operator Presence Interlock System - Run Operation

The operator must be in the seat for the engine to run with the parking brake off, the traction levers moved out of the neutral lock position, or the blades on. To check:

1. Start the engine and run at 1/2 throttle with the operator on the machine but raised off the seat.
2. One by one: move the parking brake to the OFF position, traction levers out of the neutral lock position (check each independently), and turn the blades on. Each check should kill the engine after 1/2 second. (A 1/2 second delay is built into the system to prevent engine cutout when traversing rough terrain.)

Repair machine before using if the Operator Presence Interlock System does not operate correctly in start or run. Contact your authorized BOB-CAT dealer.

### Hardware

Tighten any nuts and bolts found loose. Replace any broken or missing cotter pins. Repair any other problems before operating.

### Tire pressure

Rear Tires should be kept inflated at 12 lbs/in<sup>2</sup> (.84kg/cm<sup>2</sup>). Improper tire inflation can cause rapid tire wear and poor traction. Uneven inflation can cause uneven cutting. Front tires should be 15p.s.i. (1.05 kg/cm<sup>2</sup>)

## BATTERY-AGM TYPE BATTERY SUPPLIED

**⚠ WARNING** Battery acid is caustic and fumes are explosive and can cause serious injury or death. Use insulated tools, wear protective glasses or goggles and protective clothing when working with batteries. Read and obey the battery manufacturer's instructions.

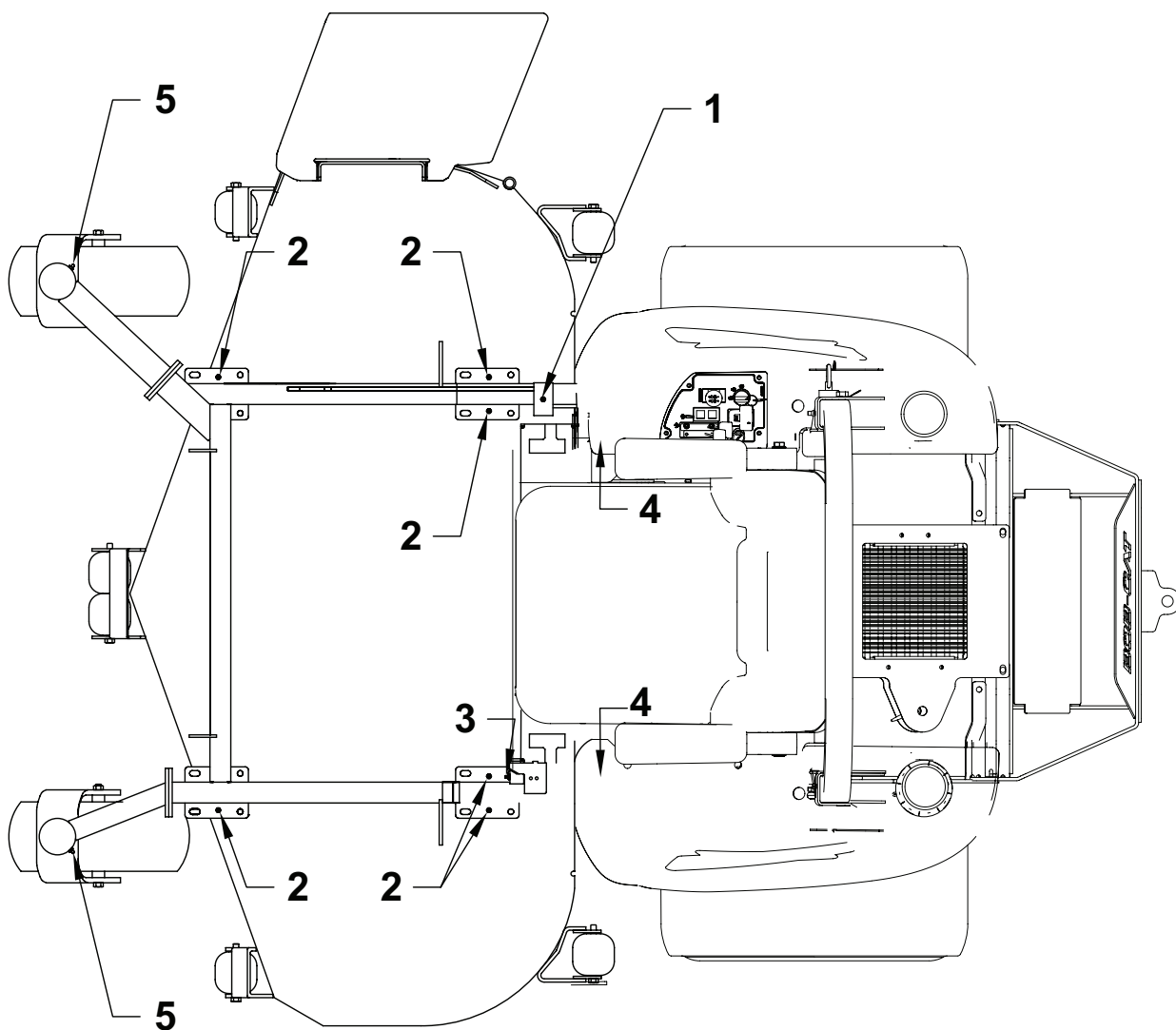
Be certain the ignition switch is OFF and the key has been removed before servicing the battery.

1. Verify battery polarity before connecting or disconnecting the battery cables.
2. When installing the battery, always assemble the RED, positive ( + ) battery cable first and the ground, BLACK, negative ( - ) cable last.
3. When removing the battery, always remove the ground, negative ( - ) cable first and the red, positive ( + ) cable last.

4. AGM type battery. **Use AGM charger when charging. P/N 4171973**

5. Clean the cable ends and battery posts with steel wool. Use a solution of baking soda and water to clean the battery. Do not allow the solution to enter into the battery cells.

6. Tighten cables securely to battery terminals and apply a light coat of silicone dielectric grease to terminals and cable ends to prevent corrosion. Keep terminal covers in place.



## LUBRICATION

Every 50 hours of operation, lubricate the following points (1-4) with grease:

1. Deck lift rockshaft (1 point)
2. Deck lift pivots (6 points)
3. Brake lever pivot (1 point)
4. Push arms (2 points located at rear of cutterdeck under each fuel tank)
5. Caster wheel pivots (2 points)  
(Lubricate every 500 hours or once a year)

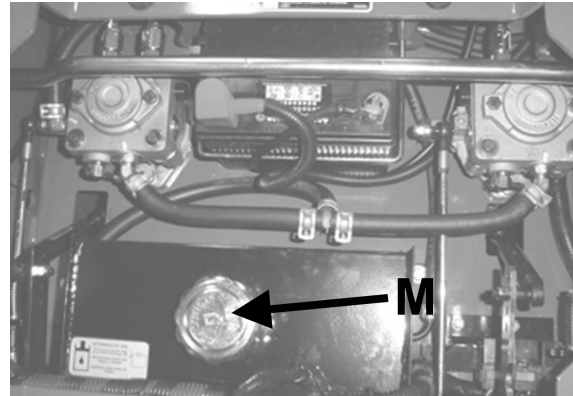
**NOTE ON BLADE SPINDLES** - The blade spindles on these machines use a superior sealed bearing that does not require re-lubrication.

## HYDRAULIC SYSTEM

Fluid level in the hydraulic system should be checked after the first 5 hours of operation, and every 100 hours thereafter, or when a leak has occurred. If the fluid is low, check all components for leaks.

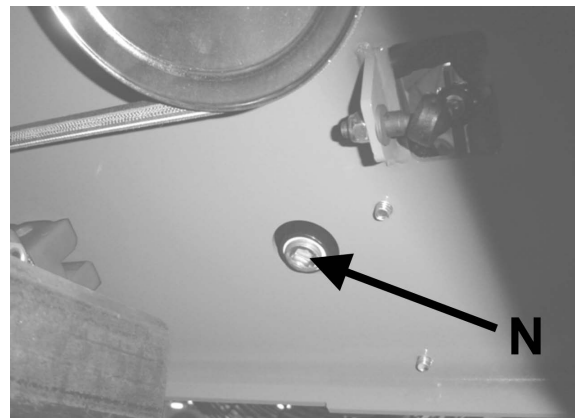
To check, remove reservoir cap **M**. The fluid level should be at the bottom of the filler tube. If low, top up (do not overfill). Use one of the oils listed below:

- SAE 15W40 motor oil
- SAE 20W50 motor oil



## AFTER FIRST FIVE (5) HOURS

1. Remove plug **N** to drain hydraulic reservoir. Dispose of used oil in accordance with local requirements.
2. Clean and replace the plug.
3. Change hydraulic oil filter **G**.
4. Fill the reservoir with fresh oil to the bottom of the reservoir filler tube, using an oil from the list above. Do not overfill.



## PERIODIC OIL CHANGES

Change the hydraulic fluid and hydraulic filter after each 500 hours of operation using the same procedure given above.

## NOTES:

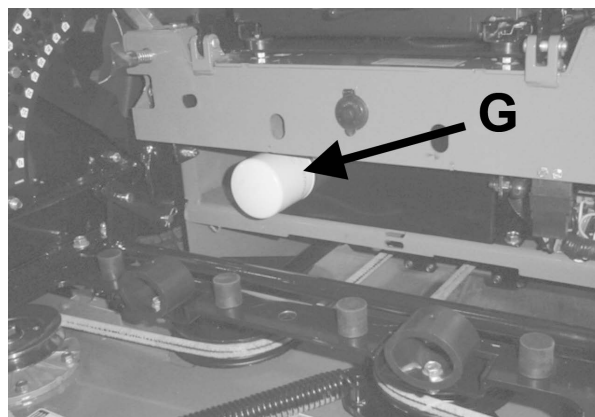
Before servicing the hydraulic system, stop the engine, disconnect spark plug wires and disengage the PTO.

- After any hydraulic line is opened, plug or cap it promptly to reduce the risk of contamination.
- Do not use sealant tape on hydraulic pipe fittings. Use a liquid sealant that will dissolve into the system.
- Make sure all hydraulic connections are tight and hydraulic hoses and lines are in good condition before applying pressure to system.

## **⚠ WARNING**

The machine's hydraulic system operates under high pressure. When checking for leaks, do not use your hands to attempt to find a leak. Instead, use cardboard or paper. Escaping hydraulic fluid can be under sufficient pressure to penetrate skin and cause serious injury. If hydraulic fluid is injected into the skin, it must be promptly removed by a doctor familiar with this form of injury or gangrene may result.

View from below machine



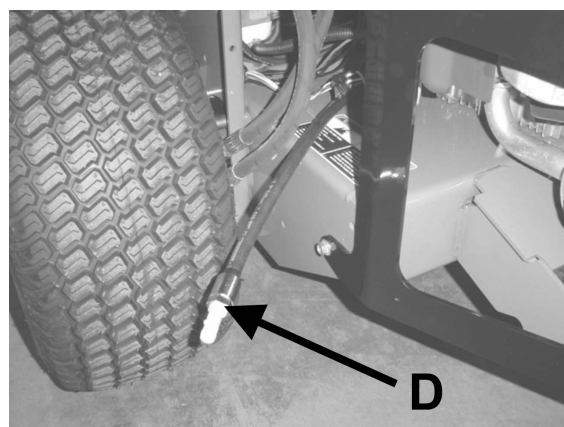
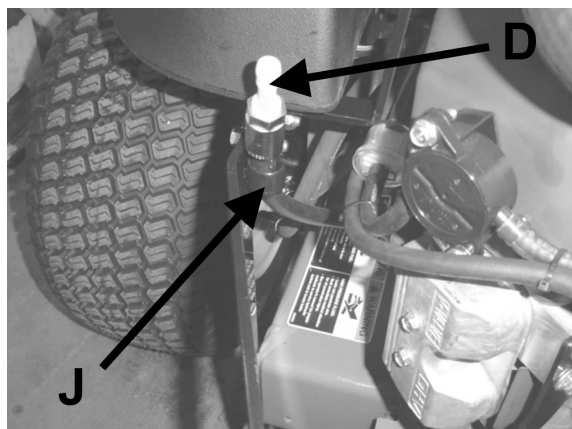
## ENGINE OIL

Do not perform engine maintenance without the engine off, spark plug wires disconnected and PTO disengaged.

### AFTER FIRST FIVE (5) HOURS

While the engine is warm:

1. Release the oil drain hose assembly from the engine clip **J**. Lay hose assembly over the frame edge.
2. Remove the rubber cap **D** from the tip of the hose assembly and turn the drain valve to allow oil to drain from the engine. Dispose of used oil in accordance with local requirements.
3. Clean drain valve and tighten the plastic portion of the drain valve back into the metal portion of the valve. Replace rubber cap over the tip of the valve. Replace hose assembly back into engine clip.
4. Change oil filter.
5. Fill the crankcase with fresh oil to the full mark. Do not overfill. See engine manual for oil specifications.



### DAILY

1. Check oil level with the dipstick.
2. If oil is needed, add fresh oil of proper viscosity and grade. See engine manual for oil specifications. Do not overfill.
3. Replace dipstick before starting engine.

### PERIODIC OIL CHANGES

1. See engine manual for oil and filter change intervals after the break-in period.
2. Follow instructions for first oil change, above.

## SPARK PLUGS

Remove each plug and check condition.

- Good operating conditions are indicated if the plug has a light coating of grey or tan deposit.
- A white blistered coating indicates overheating. A black coating indicates an “over rich” fuel mixture. Both may be caused by a clogged air cleaner or improper carburetor adjustment.
- Do not sandblast, wire brush or otherwise attempt to repair a plug in poor condition. Best results are obtained with a new plug.
- Set plug gap as specified in engine manual..

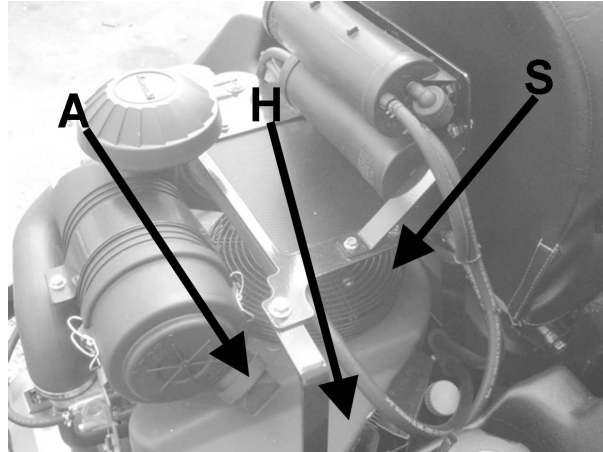
## FUEL FILTER

An in line fuel filter is located in the fuel supply line. Inspect at every oil change to make sure it is clean and unobstructed. Replace if dirty.

## ENGINE COOLING

Continued operation with a clogged cooling system will cause severe overheating and can result in engine damage.

- **Daily:** Clean air intake screen **S** on air cooled engines.
- **Every 100 hours:** Clean cooling fins beneath blower housing **H** with reference to information in the engine manufacturer's manual.

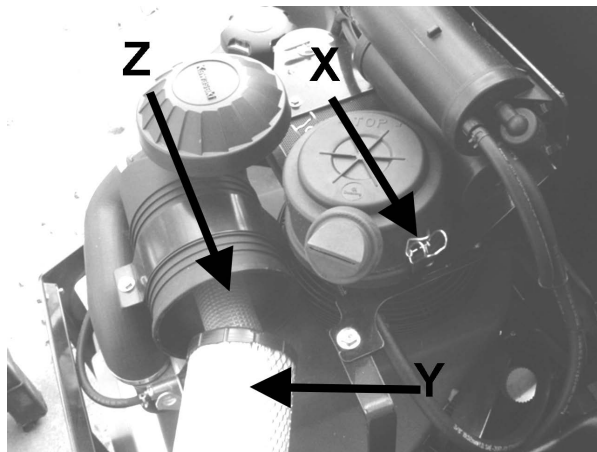


## HEAVY DUTY CYCLONIC AIR CLEANER

Clean and replace the air cleaner element as specified in the service chart. Uneven running, lack of power or black exhaust fumes may indicate a dirty air cleaner.

### To replace air cleaner elements:

1. Unclamp end cover **X** and remove existing cleaner elements.
2. Insert new elements **Y** and **Z** and replace cover. Ensure the breathing port **A** is pointing down and towards the front of the tractor.



## CLEANING MACHINE

Clean the machine after use. Compressed air is recommended. Do not use a pressure washer. The machine will run cooler and last longer if kept free of clippings and other debris. A clean machine also reduces the risk of fire due to accumulation of combustible debris and chaff.

Brush or blow clippings and debris off the cutterdeck and engine deck. DO NOT use a pressure washer.

## WASHING MACHINE

**CAUTION:** Improperly washing a machine can cause water to enter bearings and other components. This can greatly reduce component life.

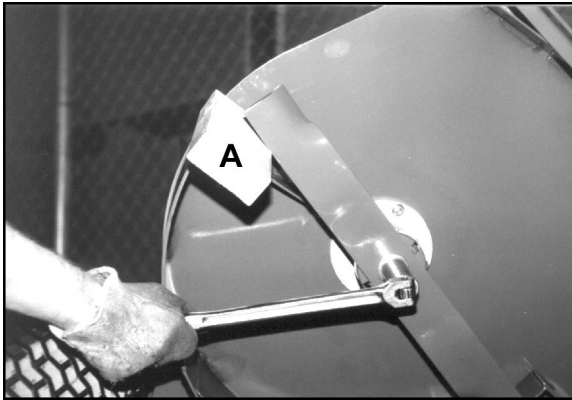
- Do not use a pressure washer. Do not direct water at bearings or seals. High pressure water can blow past seals and enter sealed bearings.
- Allow the machine to cool down before washing. Water on a warm machine can be sucked into sealed bearings as they cool.
- Avoid getting electrical connections wet. Water can cause electrical faults and corrosion of electrical components.



## BLADE REMOVAL

Follow these instructions to prevent injury during blade removal:

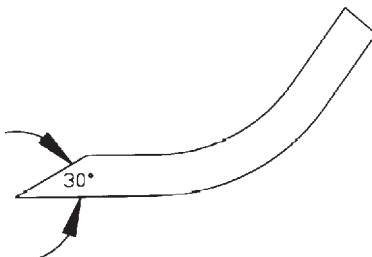
1. Loosen with a box wrench or a socket and long breaker bar. To gain additional leverage, slip a long pipe or thick-walled tube over breaker bar or wrench.
2. Insert wood block **A** as shown, with grain perpendicular to blade, to prevent blade from turning when loosening.
3. Wear thickly padded gloves. Keep hands clear of blade path. Blades may rotate when bolt releases.



## SHARPENING

Blades may be sharpened by filing or grinding.

- Inspect blades before sharpening.
- Replace bent or cracked blades.
- Replace blades when the lift portion has worn thin.
- Maintain cut angle at 30°.
- Do not overheat blades when sharpening.
- Always use BOB-CAT blades. Use of another manufacturer's blades may be dangerous.



## BLADE BALANCE

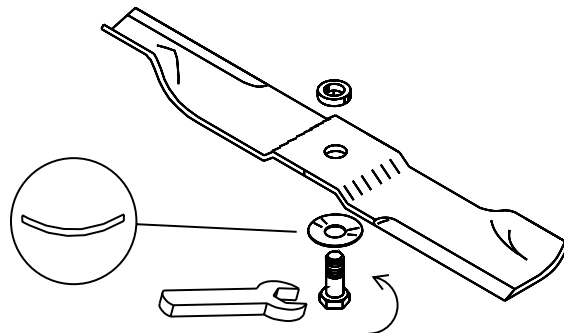
Blade balance must be maintained at 5/8 oz-in (19.4 g-cm) or less. Failure to keep blades balanced causes excess vibration, wear, and shortened life of most components of the machine.

### To balance a blade:

1. Sharpen blade first.
2. Balance the blade at the center.
3. Attach a 1/8 oz (3.9 g) weight at a distance 5" (127 mm) from center on the light end. This should make the light end the heavy end:
  - If it does, the blade is balanced.
  - If does not, file or grind the heavy end until the addition of the weight makes the light end the heavy end.

## BLADE INSTALLATION

1. Wear thickly padded gloves to prevent cuts from the sharp blade.
2. Insert the blade bolt, in order, through the conical washer (cup side toward the blade, as shown), the blade, and the blade spacer.
3. Install assembly on the blade spindle.
4. Torque the blade bolt to 70 ft-lbs.



## BELTS

All belts are tensioned by spring loaded idlers. No adjustment is required.

## DECK LEVELING

- Park the machine on a smooth, level surface. Raise the deck to the transport position.
- Lower the deck onto a pair of equal height blocks **A** under the rear corners of the deck. Place another pair of adjustable blocks **B** under the front of the deck so that the deck top is pitched forward  $1/8"$ .

A  $1/8"$  forward pitched deck provides the best horsepower.

A level deck provides the best quality of cut.

A  $1/8"$  rearward pitched deck provides the best striping.

Certain grass types and conditions may vary.

**NOTE:** The front and rear of the deck are at different heights.

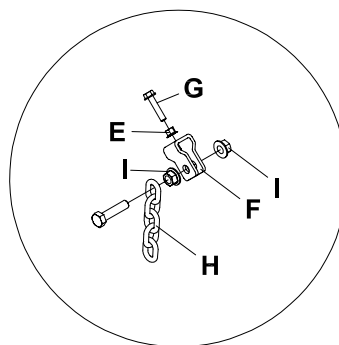
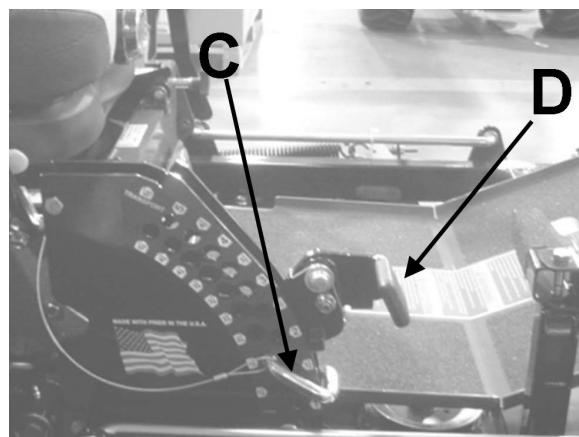
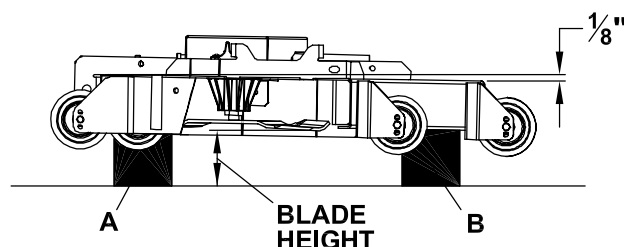
- Measure the height of the blade cutting edge above the ground. Remove pin **C** and set the height of cut lever **D** to that height.

- Loosen nuts **I** at all four corners of the deck.

**NOTE:** This will relieve tension on chains **H**.

- Loosen the jam nuts **E** on the height of cut clips **F** and adjusting screws **G**. Turn the adjusting screws **G** until the play is taken out of the chains **H** at all four corners. Tighten the jam nuts **E** against the clips **F** and at the adjusting screws **G**. Retighten nuts **I** at this time.

### FORWARD PITCH SHOWN



## HEIGHT OF CUT

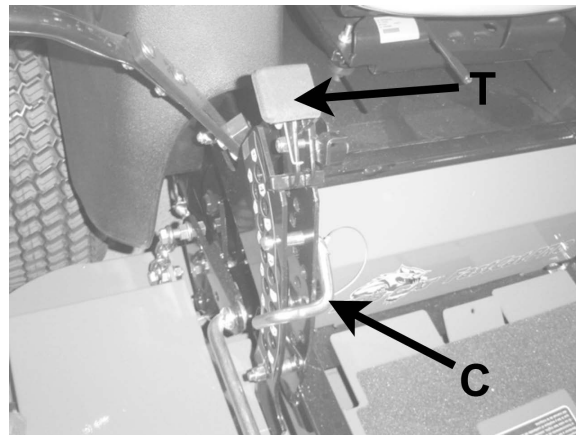
The height of cut is set by moving height of cut pin **C** to the hole designated for the height of cut desired.

To change the height of cut:

1. Lift the deck to the highest position using the foot lift pedal.
2. Move pin **C** to the selected hole.
3. Lower the deck until the latch lever **T** is stopped by the pin.

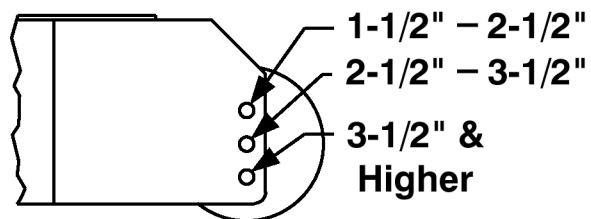
### NOTES:

- Height of cut may vary due to the amount of tread on the tires, tire diameter or inflation pressure.
- For best results, adjust the rear deck rollers for the height of cut to be used (see below).



## REAR DECK ROLLERS

The rear outside deck rollers are adjustable up and down to provide improved deck flotation and scalping protection at various heights of cut. They are not intended to ride continuously on the ground. Adjust no closer than 3/8" (10mm) to the ground.

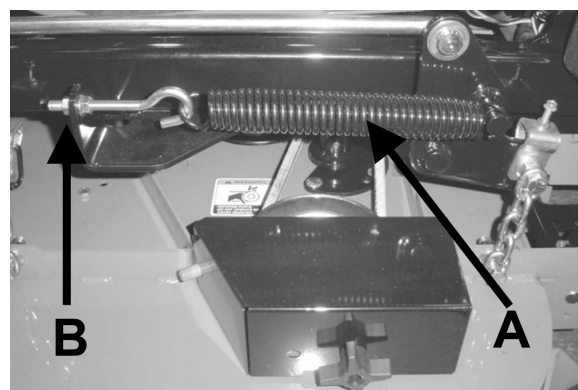


Height of cut ranges for roller adjustment

## COUNTERBALANCE SPRINGS

1. Raise the cutterdeck all the way.
2. Adjust the spring **A** with nut **B**: The spring length should be set at approximately 8-3/4", inside loop to inside loop, when in transport position.

The springs may be tightened or loosened from this point according to personal preference.



## CONTROL LEVERS

There are two mounting positions for the control levers, upper and lower. The lower position works well for most people. Taller operators may need the upper position.

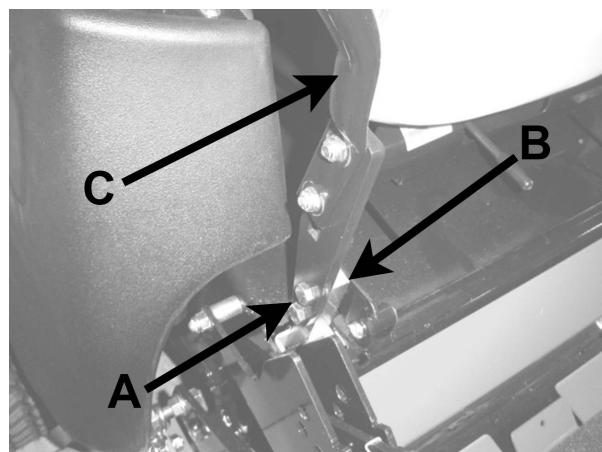
To adjust the height of the control levers:

- Remove bolts and nuts **A**.
- Align holes in control lever **C** with appropriate holes in traction lever bracket **B**.
- Install bolts and nuts **A**.

The upper mounting hole for the control levers is slotted to allow fore-aft adjustment and to allow alignment of the levers.

To adjust or align the control levers:

- Loosen nuts **A**.
- Adjust control lever position.
- Tighten nuts **A**.



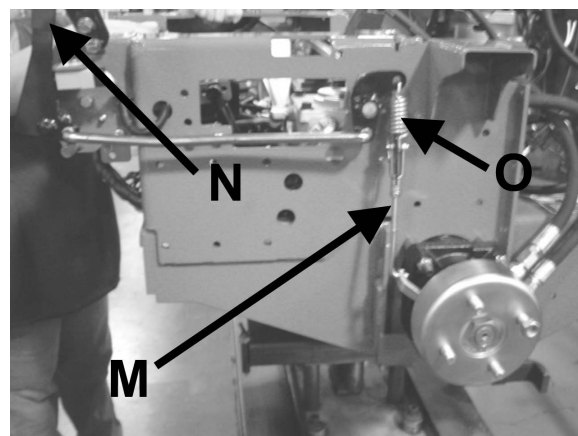
## PARKING BRAKE

Park machine on a smooth level surface.

Support the machine with the rear wheels off the ground, using jack stands or equivalent. DO NOT rely on mechanical or hydraulic jacks.

1. Remove rear wheels.
2. Measure spring length **O** with parking brake **N** in the OFF position.
3. Move parking brake **N** to the ON position and measure length of spring **O** again. When spring deflects 3/8" it is properly adjusted.
4. If adjustment is required, return parking brake **N** to the OFF position.
5. Disconnect one end of rod **M** at the brake and loosen jam nut.
6. Adjust rod **M** in or out as required until 3/8" deflection in brake spring **O** is achieved with parking brake **N** in the ON position.
7. Reconnect rod **M** and retighten jam nut.
8. Repeat steps 2-7 on opposite side of machine.
9. Replace wheels and tighten wheel nuts.

**NOTE:** Parking brake must be in the OFF position to properly seat brake drums.



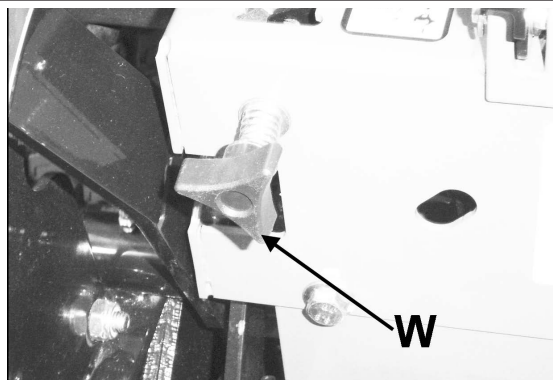
**Parking brake assembly (tire and deck not shown for clarity - brake in ON position).**

This adjustment will cause the brake springs to stretch 3/8" when the parking brake is in the ON position, providing the correct parking brake force without overloading the brake arm.

## TRACKING HANDLES

An adjustment is provided to allow the operator to adjust machine tracking during operation.

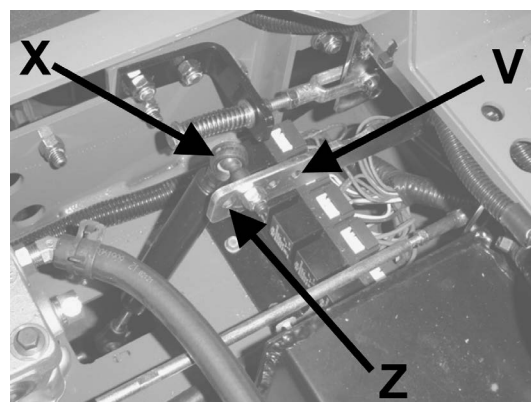
1. Turn knob **W** clockwise to shorten control lever travel.
2. Turn knob **W** counter-clockwise to increase control lever travel.



## DAMPERS

Different damper mounting holes have been provided for various operator preferences with control lever motion.

1. For a stronger resistance feel, mount the dampers **X** in the outer most hole **Z** of the motion control weldment.
2. For a lighter resistance feel, mount the dampers **X** in the inner most hole **V** of the motion control weldment.

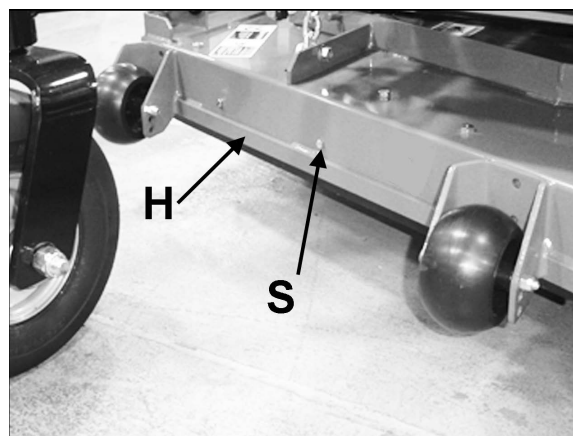


## FRONT DECK LIP

Adjustable front deck lips have been provided on 48in., 52 in. and 61 in. cutterdecks for various cutting conditions.

To revise per conditions:

1. Loosen the front bolts **S**.
2. Adjust height of **H**.
3. Retighten **S** once you have desired height.





## HYDROSTAT ADJUSTMENTS

A turnbuckle-style hydrostat neutral adjustment is provided.

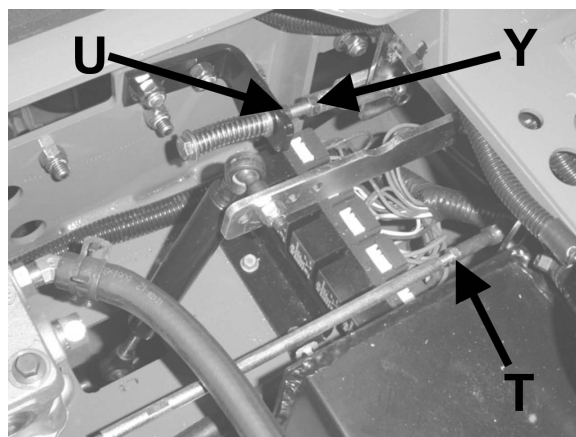
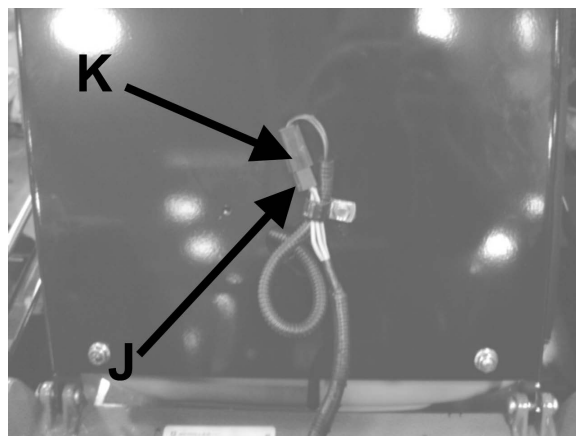
### Neutral:

1. Support the machine with the rear wheels off the ground. Use jackstands or equivalent support. Do not rely only on mechanical or hydraulic jacks.
2. Move the traction levers out into the neutral lock position and raise the seat.
3. Disconnect the seat switch wire **K** and temporarily connect the two terminals with jumper wire **J** as shown.
4. Start the engine and run at low speed.
5. Loosen jam nuts **T** at both ends of the control rod.
6. Rotate the control rod until the corresponding wheel stops turning. Lock the jam nuts. Run the engine up to high idle to check the adjustment. Readjust if necessary.
7. Repeat steps 5 and 6 for the opposite side.
8. Remove the jumper wire **J** and reconnect the seat switch.

### Reverse Return:

1. Move traction levers out to the neutral lock position and raise the seat.
2. Locknut **U** should be run on the bolt as far as it will go.
3. Loosen jam nut **Y**. Adjust the clevis yoke by turning the head of the bolt until the clevis pin just makes contact with the rear of the slot in the lever it connects with. Tighten jam nut **Y**.
4. Repeat steps 2 and 3 for the opposite side.

**NOTE:** A slight creep in reverse is acceptable provided the wheel does not turn and the hydrostat pump does not whine when the parking brake is on.



Right side adjustments

**Note:** Always use Schiller Grounds Care, Inc. replacement belts, not general purpose belts. Schiller Grounds Care, Inc. belts are specially designed for use on commercial mowers and will normally last longer.

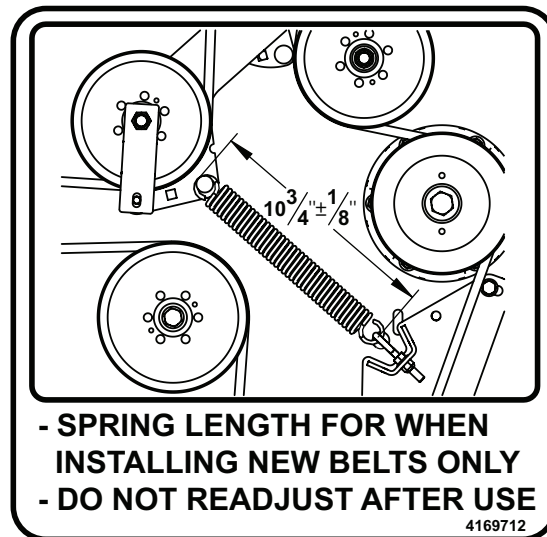
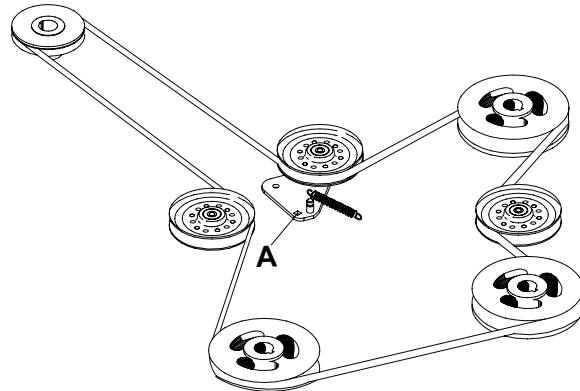
## CUTTERDECK BELT

1. Tilt floorplate all the way forward.
2. Set the cutterdeck in a middle height-of-cut position.
3. Use a 3/8" ratchet and extension to back tensioning idler off to remove belt from idler. Remove belt from cutterdeck pulleys.

**NOTE:** Use the 3/8" ratchet in the square hole **A** on the idler.

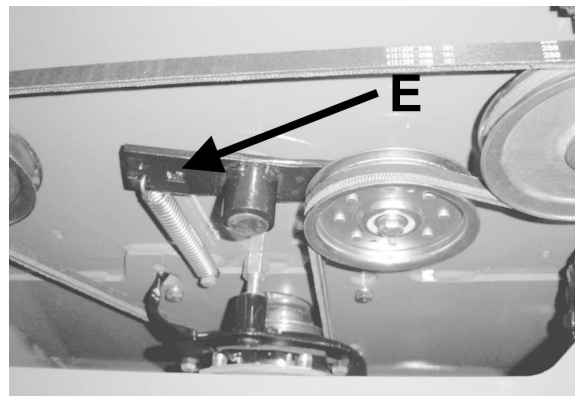
4. Remove belt from clutch pulley.
5. Install the new belt by performing these steps in reverse order.
6. If machine has eyebolt for adjusting belt tensioning spring, adjust eyebolt so the distance between the outside of the spring post on the movable idler and the inside of the eyebolt is  $10-3/4 \pm 1/8$ ".

**NOTE:** After usage of the machine, the belt will seat into the pulleys and reduce the length of the spring. **DO NOT READJUST THE EYEBOLT.** This is normal. If you do adjust the eyebolt, you will over tension the belt, greatly reducing its life.



## PUMP-DRIVE BELT

1. Remove engine-cutterdeck belt (see engine-cutterdeck belt replacement).
2. Attach an extension to a 3/8" drive ratchet. Insert the ratchet extension in the square hole of the pump drive idler arm. Use the ratchet handle to rotate it enough to remove the pump drive belt.
3. Install a new pump drive belt in the same manner as it was removed.
4. Re-install engine-cutterdeck belt (see engine-cutterdeck belt replacement).





## POWER UNITS

### ENGINES:

**Construction:** Aluminum block with cast-in cast iron sleeves. Aluminum head.

**Configuration:** 4-stroke, vertical shaft, V-twin cylinder, overhead valve, air-cooled.

### DRIVE SYSTEM:

Full hydrostatic pump and wheel motor combination for independently controlled drive wheels.

**Pump:** Hydrogear 12cc variable displacement piston pump.

**Motors:** Parker displacement MB series. Direct drive 1-1/4" (31.8mm) diameter output shaft.

**Turn Radius:** True Zero

### OPERATOR PRESENCE

#### INTERLOCK SYSTEM:

**Start:** The PTO (blades) must be off, traction levers in neutral lock, and parking brake on for engine to crank.

**Run:** Operator must be in seat to take parking brake off, to move traction levers out of the neutral lock position, or to turn the PTO (blades) on or the engine will kill. The parking brake must be off for the traction levers to move out of the neutral lock position.

The operator may leave the seat with the engine running if the parking brake is on, the PTO (blades) is off, and the traction levers are in the neutral lock position. A time delay eliminates annoying engine cutout from operation over rough terrain.

### WEIGHT:

1256 lbs (570 kg) w/52" deck

1293 lbs (587 kg) w/61" deck

### CONTROLS:

Throttle; choke; power takeoff (PTO) clutch switch; traction levers; parking brake lever; lift lever.

### FUEL SYSTEM:

One tank on each side of operator, each with a shut-off (1/4 turn). Total capacity 14 gallons (52.9 liters). Fuel selector/shutoff switch on rear cooler mounting bracket(1/4 turn). Replaceable fuel filter.

### MAXIMUM GROUND SPEEDS:

**Forward:** 12.5 mph (20.1 km/h)

**Reverse:** 4 mph (6.4 km/h)

### WHEELS & TIRES:

#### Drive wheels:

942832K: 23 X 10.5-12 4-Ply Turf Tread Tires

942833K: 24 X 12.00-12 4-Ply Turf Tread Tires

#### Casters:

**52", 61", :** 13 X 6.5-6 tires

**Pressure:** Rear tires 12 p.s.i. (.84 kg/cm<sup>2</sup>)  
Front tires 15 p.s.i. (1.05 kg/cm<sup>2</sup>)

### BRAKING:

Parker brakes. Spring applied for overload protection.

### SEAT:

High back, foam padded seat with standard armrests. Fore and aft adjusters, hinged for easy tilt-up access to pumps and battery. Internally mounted seat switch.

ENGINES		
MODEL NUMBER	942832K	942833K
MANUFACTURER	Kawaskai	Kawasaki
MODEL	FX651V	FX730V
CYLINDERS	2	2
COOLING	Air	Air
BORE/STROKE	3.1 X 3.0" (78 X 76.2 mm)	3.1 X 3.0" (78 X 76.2 mm)
DISPLACEMENT	44.3 cu. in. (726 cc)	44.3 cu. in. (726 cc)
COMPRESSION	8.2:1	8.2:1
OUTPUT POWER		
OUTPUT TORQUE	40.0 ft-lb (54.2J) @2200 rpm	42.1 ft-lb (55.4J) @2400 rpm
LUBRICATION	FULL PRESSURE	FULL PRESSURE
GOVERNOR	Mechanical	Mechanical
AIR CLEANER	Heavy Duty Cyclonic	Heavy Duty Cyclonic
IGNITION SYSTEM	Electronic	Electronic
CHARGING SYSTEM	15 amp, regulated	15 amp, regulated
BATTERY	BCI group U1	BCI group U1
FUSES	Two, 20 amp blade	Two, 20 amp blade
FUEL CONSUMPTION @ MAX LOAD/ SPEED		

GENERAL	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS
Check Tire Pressures												
Lubricate All Points												
Check Nuts & Bolts												
ENGINE												
Check Engine Coolant Level (Where Applicable)												
Check Oil Level												
Change Oil												
Clean Air Cleaner Element												
Clean Cooling Fins												
Replace Air Cleaner Element												
Clean & Gap Spark Plugs												
NOTE: After first 5 hours of operation replace engine oil, hydraulic oil and both filters.												

CUTTERDECKS		
MODEL NUMBER	942832K	942833K
TYPE	Side Discharge	Side Discharge
CUTTING WIDTH	52.5" (133cm)	61" (155cm)
WIDTH (CHUTE UP)	56.25" (143cm)	62" (157cm)
WITDH (CHUTE DOWN)	64.5" (164cm)	73" (18cm)
BLADE	high lift (low lift optional)	high lift (low lift optional)
NUMBER OF BLADES	3	3
BLADE LENGTH	18" (46cm)	21" (53cm)
BLADE THICKNESS	.205" (5.2mm)	.25" (6.35mm)
TIP SPEED	18585 ft/min 5665 m/min @3600 Engine RPM	18850 ft/min 5745 m/min @3600 Engine RPM
DAILY PRODUCTION	Up to 25.5 acres (10.3 ha)	Up to 29.5 acres (11.9 ha)

## CONSTRUCTION:

Fabricated and welded 10-gauge, double-layer steel top with 7-gauge side skirts. Full floating design.

## CUTTERDECK DRIVE SYSTEM:

Electric clutch/brake drives belt directly from engine to cutterdeck. No twists in drive belt.

## SPINDLES:

Top mounted and maintenance free, with 1" shaft in precision machined, aluminum housing

## SPECIFIC TORQUES

BLADE BOLT TORQUE: 70 FT-LBS (95 Nm)

WHEEL HUB NUTS: 225 FT-LBS (237 Nm)

ENGINE CRANKSHAFT BOLT: 50 FT-LBS (68 Nm)

LUG NUTS: 75-100 FT-LBS

## ANTI-SCALP ROLLERS:

52" SD Cutterdecks - 6 Rollers

61" SD Cutterdecks - 7 Rollers

## CUTTING HEIGHT & PRODUCTION:

**Height:** Spring assisted lever allows easy setting of cut heights from 1" to 5 1/2" in 1/4" increments. "Set and forget" feature allows height of cut to be set and returned to without searching from operator position.

# **PARTS SECTION**

# PROCAT

This is a detailed exploded view diagram of a mechanical assembly, likely a pump or motor unit. The diagram shows the following components and their assembly relationships:

- Top Assembly:** Includes a motor or pump head (1) with a cooling fan, connected to a shaft (14) and a coupling (54). A bracket (56) and a pin (26) are also shown.
- Intermediate Components:** A pin (42) connects the top assembly to a bracket (31) which holds a pin (39) and a pin (32). A pin (41) is also shown.
- Base Assembly:** A large rectangular base (3) is shown with various mounting points. A pin (15) and a pin (53) are shown connecting to the base. A pin (51) is shown connecting to a component (2) which is mounted on the base.
- Internal Components:** A pin (9) and a pin (13) are shown connecting to a component (44). A pin (33) is also shown.
- Right Side Components:** A pin (30) and a pin (4) are shown connecting to a component (10). A pin (34) and a pin (36) are shown connecting to a component (50). A pin (16) is also shown.
- Bottom Components:** A pin (21) and a pin (40) are shown connecting to a component (47). A pin (27) and a pin (43) are shown connecting to a component (19). A pin (18) and a pin (44) are shown connecting to a component (23). A pin (24) and a pin (37) are shown connecting to a component (25). A pin (28) and a pin (35) are shown connecting to a component (29). A pin (45) and a pin (22) are shown connecting to a component (46). A pin (57) is also shown.
- Other Components:** A pin (12) and a pin (17) are shown connecting to the base. A pin (20) and a pin (11) are shown connecting to a component (48). A pin (38) and a pin (50) are shown connecting to a component (6). A pin (8) and a pin (49) are shown connecting to a component (5).

# UPPER ENGINE DECK ASSY

## PROCAT

FIGURE 1

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4164366	ENG-KAW FX651V	1	34	64152-49	SCREW-SLT HH 10-24X3/4	2
	4164368	ENG-KAW FX730V		35	108208	SWITCH DBL POLE	2
	4164576	S-AIR FILTER PRIMARY		36	2188156	SWITCH-NONO DBL POLE	1
	4164577	S-AIR FILTER SAFETY		37	64197-015	BLT-TDFM 10-32X1/2 TORX	2
	4164537	FILTER-OIL		38	2188154	MODULE-DELAY	1
	4168368	FILTER-FUEL		39	69053-03	HOSE, HYDRAULIC 18"	1
				40	64163-02	WSHR .321X.59X11GA	2
2	4168656	PUMP-HYDROSTATIC 12CC (SEE FIGURE 8 FOR BREAKDOWN)	2	41	4164252-001	FITTING-3/8NPT TO 3/8	1
3	4167906	S-ENGINE DECK W/LABS	1	42	48412-01	CLAMP-J	1
4	4171099	BATTERY	1	43	64163-55	WASHER .328X.75X14 GA	4
*	4171973	CHARGER-BATTERY, AGM		44	64229-08	LOCKNUT NYLON 5/16-24	2
5	4165497.7	BRACKET-RELAY MNTG	1	45	64123-15	BOLT-3/8-16X3/4 HEX	8
6	4167655	S HYD RESERVOIR W/LABS	1	46	64197-025	BLT-TDFM 1/4-20X5/8	2
7	64262-012	BLT-FLG HD 3/8-16 X 1-1/4	4	47	38304-02	BRG, FLGD PLASTIC	2
8	64197-016	BLT-TDFM 3/8-16X1/2	4	48	4143354	BUMPER-RUBBER	2
9	64025-03	NUT-HEX 5/16-24 RH	4	49	4167240	CAP-RESERVOIR	1
10	4167239	STRAP-BATTERY	1	50	64025-15	NUT-HEX #10-24 KEPS	4
11	64141-4	NUT-WLF 3/8-16	8	51	4167343-01	ROD END-5/16 FEMALE RH	2
12	64229-03	NUT-NYLON LOCK 3/8-16	8	52	4167343-02	ROD END-5/16 FEMALE LH	2
13	4118430	ARM-PUMP	2	53	64025-33	NUT-HEX 5/16-24 LH	2
14	4164385	MUFFLER-KAW FX651V/730V	1	54	11060-9016	GASKET-MUFFLER	2
15	4167289	ROD-LINK ASSY	2	(AVAILABLE THROUGH KAWASAKI DEALER)			
16	64152-46	SCREW-SLT HH 10-24X 1/2	2	55	64263-007	BLT-FLG HD M8-1.25 X 20	6
17	64237-05	LOCKNUT-NYLON M8-1.25	4	56	4164443.7	BRKT-MUFFLER LH	1
18	2182405.7	BRKT-REVERSE RETURN	2	*	4164442.7	BRKT-MUFFLER RH	1
19	64123-50	BLT-HEX 3/8-16X1	4	57	64163-95	WSHR-.344X.688X.065	2
20	64141-6	NUT-WLF 5/16-18	2				
21	64123-205	BLT-HEX 5/16-24X4	2				
22	2188145	BEARING-.75ID SELF ALIGN	2				
23	38020N	CLEVIS YOKE, 5/16 PLATE	2				
24	64188-02	PIN, CLEVIS 5/16X1	2				
25	64168-2	COTTER-HAIRPIN.08X1.19	2				
26	64266-02	NUT-FL LOCK M8-1.25	2				
27	2188139	SPRING-COMPRESSION	2				
28	2722384	DAMPER	2				
29	4167144	WLDMT-MOTION CTRL LH	1				
	*4167143	WLDMT-MOTION CTRL RH	1				
30	64268-02	NUT-FL NYLON LOCK 5/16-18	2				
31	88042-03	CLAMP-HOSE 5/8	2				
32	4164251	VALVE-OIL DRAIN	1				
33	64192-06	SETSCR SQHD 5/16-18X3/4	2				

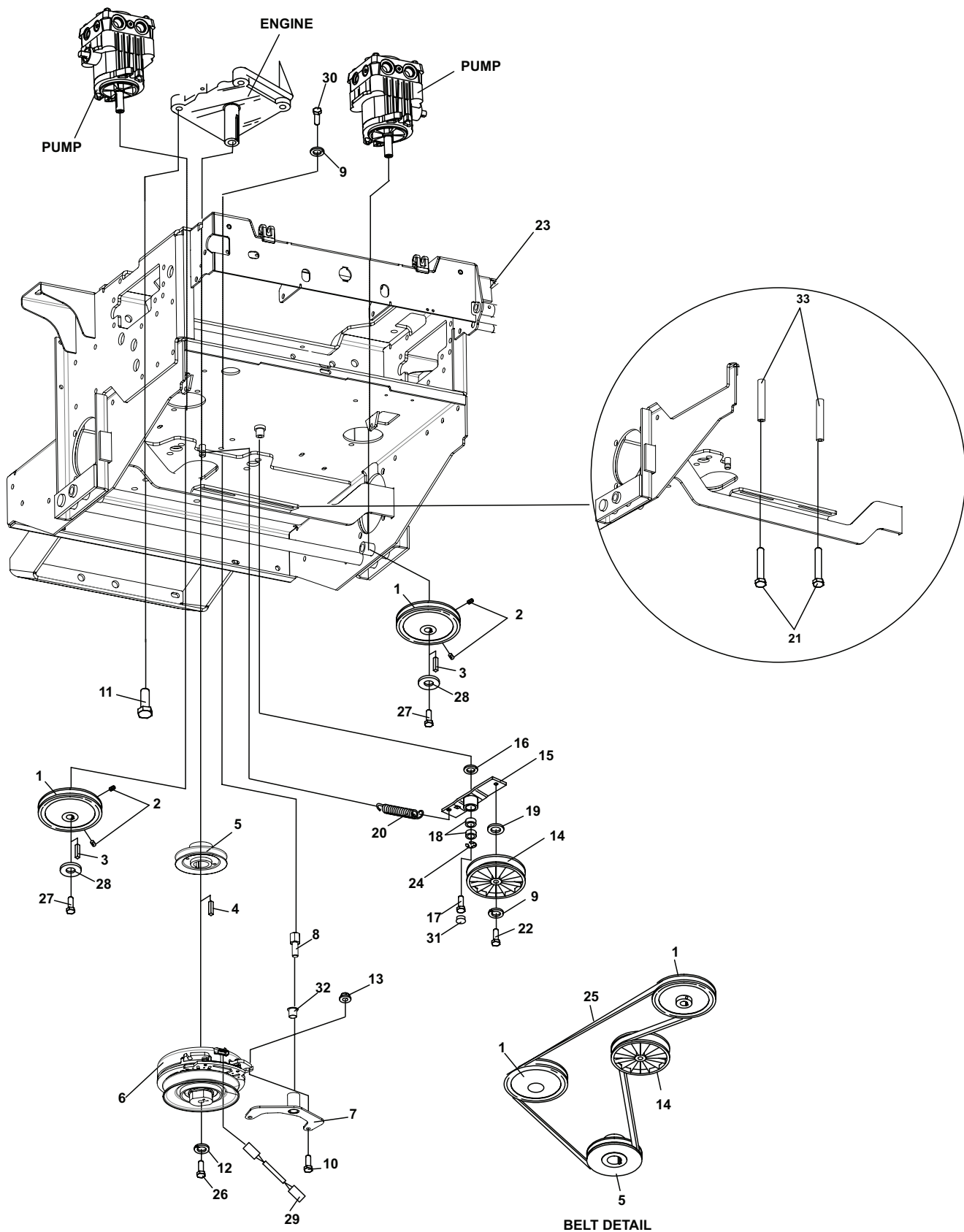
\* NOT ILLUSTRATED



# LOWER ENGINE DECK ASSY/CLUTCH

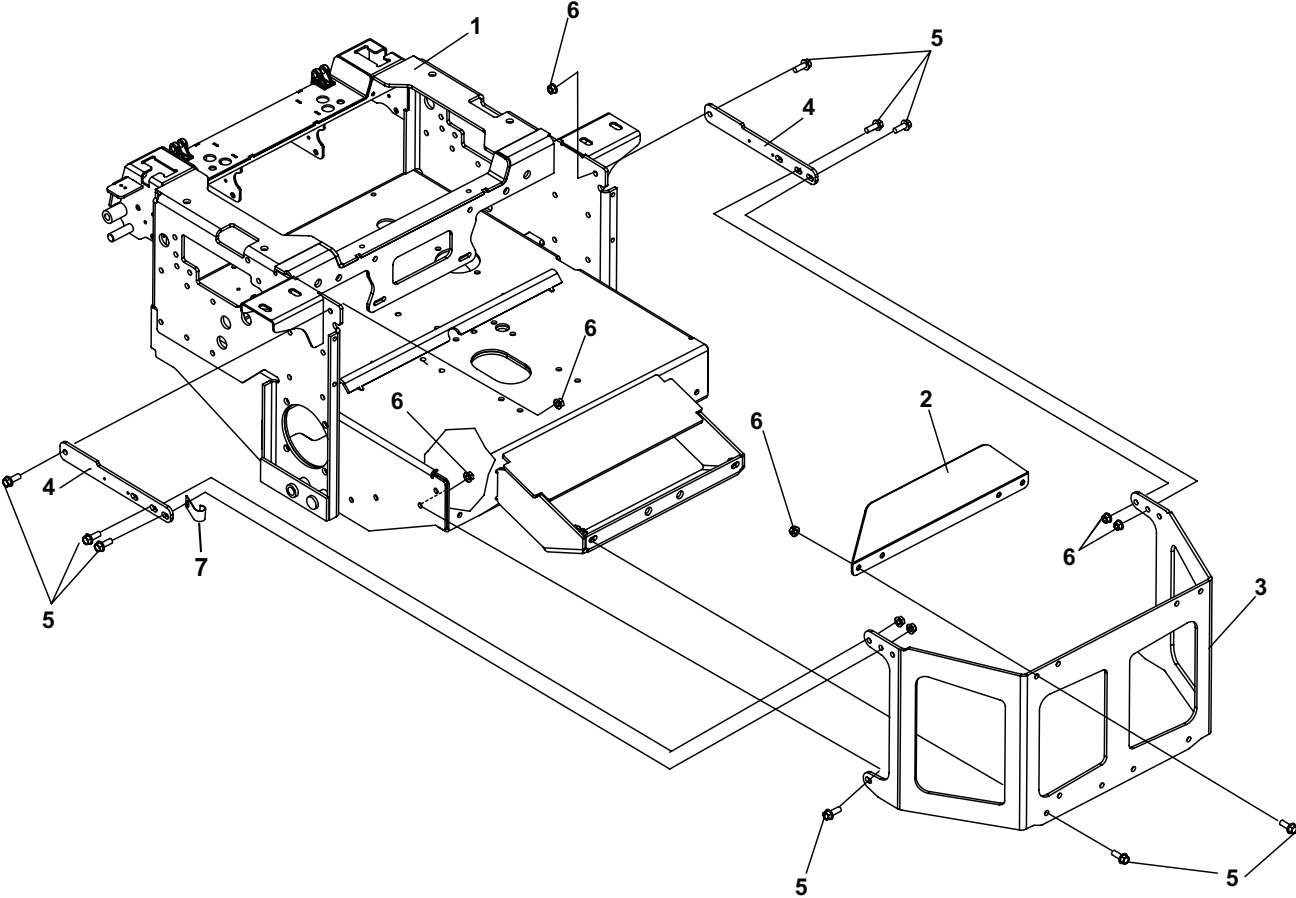
PROCAT

FIGURE 2



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4158360	PULLEY-PUMP	2				
2	64044-18	SCREW-SET 1/4-20 X 5/16	4				
3	64238-03	KEY-MET 5MM SQX28MM	2				
4	64164-12	KEY	1				
5	4165509	PULLEY- 5.25 OD X 1.126	1				
6	4165689	CLUTCH-ELECTRIC, 225	1				
7	4165570.7	WLDMT-CLUTCH STOP	1				
8	4121540	PIN-CLUTCH	1				
9	64006-03	LOCKWSHR-3/8 HELICAL	6				
10	64123-54	BLT-HEX 5/16-18X3/4	2				
11	64123-70	BLT-HEX 3/8-16X1-1/2	4				
12	64006-06	LCKWSHER-HELICAL 7/16	1				
13	64268-02	NUT-FL NYLON LCK 5/16-18	2				
14	2308000	PULLEY-IDLER 4.00 EOD	1				
15	4128923	S-ASSY-IDLER ARM PUMP	1				
		(INCLUDES ITEMS 16, 18 & 24)					
16	4127999	SEAL	1				
17	64270-01	BOLT-MET HEX M10-1.5X30	1				
18	4128004	BEARING	2				
19	33148-01	SPACER-0.379X0.750X0.25	1				
20	2188131	SPRING-EXTENSION	1				
21	64262-006	BLT-5/16-18X1	2				
22	64123-21	BLT-HEX 3/8-24X1-1/4	1				
23	4167906	S-ENGINE DECK W/LABS	1				
24	64144-40	SNAP RING	1				
25	4157920	BELT PUMP DRIVE	1				
26	64123-216	BLT-HEX 7/16-20X2-1/4	1				
27	64205-013	BLT-MET M6-1X12	2				
28	64209-09	WASHER-CONICAL SPRING	2				
29	2720949	ASSY-CLUTCH WIRE	1				
30	64123-15	BLT-HEX 3/8-16X3/4	1				
31	4128002	END CAP	1				
32	38304-03	BEARING-FLNGD PLASTIC	1				
33	4166355	PIN-BELT GUIDE	2				

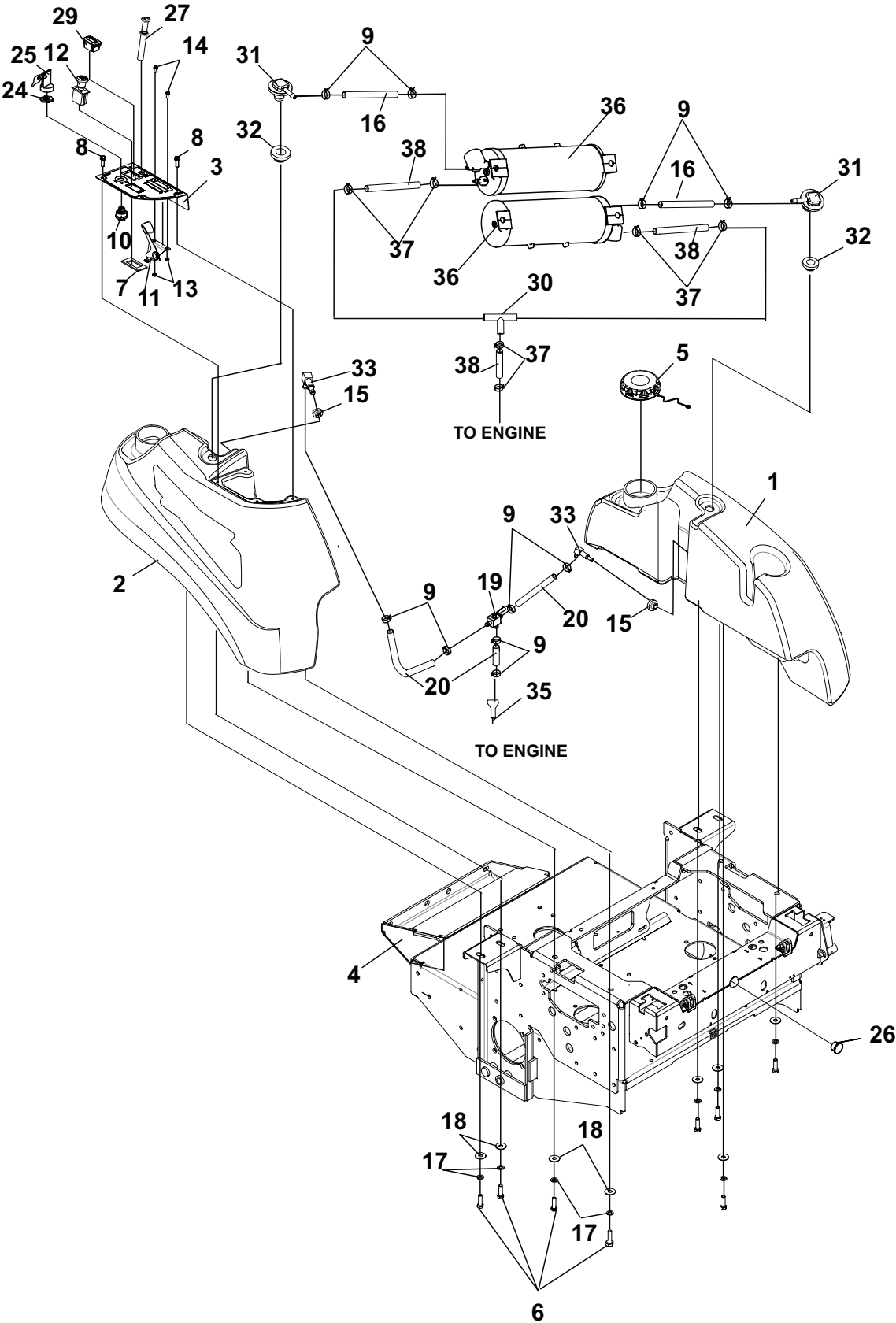
**FIGURE 3**



## FIGURE 3

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4167906	S-ENG DECK W/LABS	1				
2	4168775.7	BRKT-BUMPER, TOP	1				
3	4165490.7	WRAPPER-BUMPER	1				
4	4165492.7	STRAP-BUMPER	2				
5	64262-012	BLT-FLG HD 3/8-16 X 1-1/4	12				
6	64268-03	NUT-FL NYLON LOCK 3/8-16	12				
7	48412-01	CLIP-J	1				

FIGURE 4

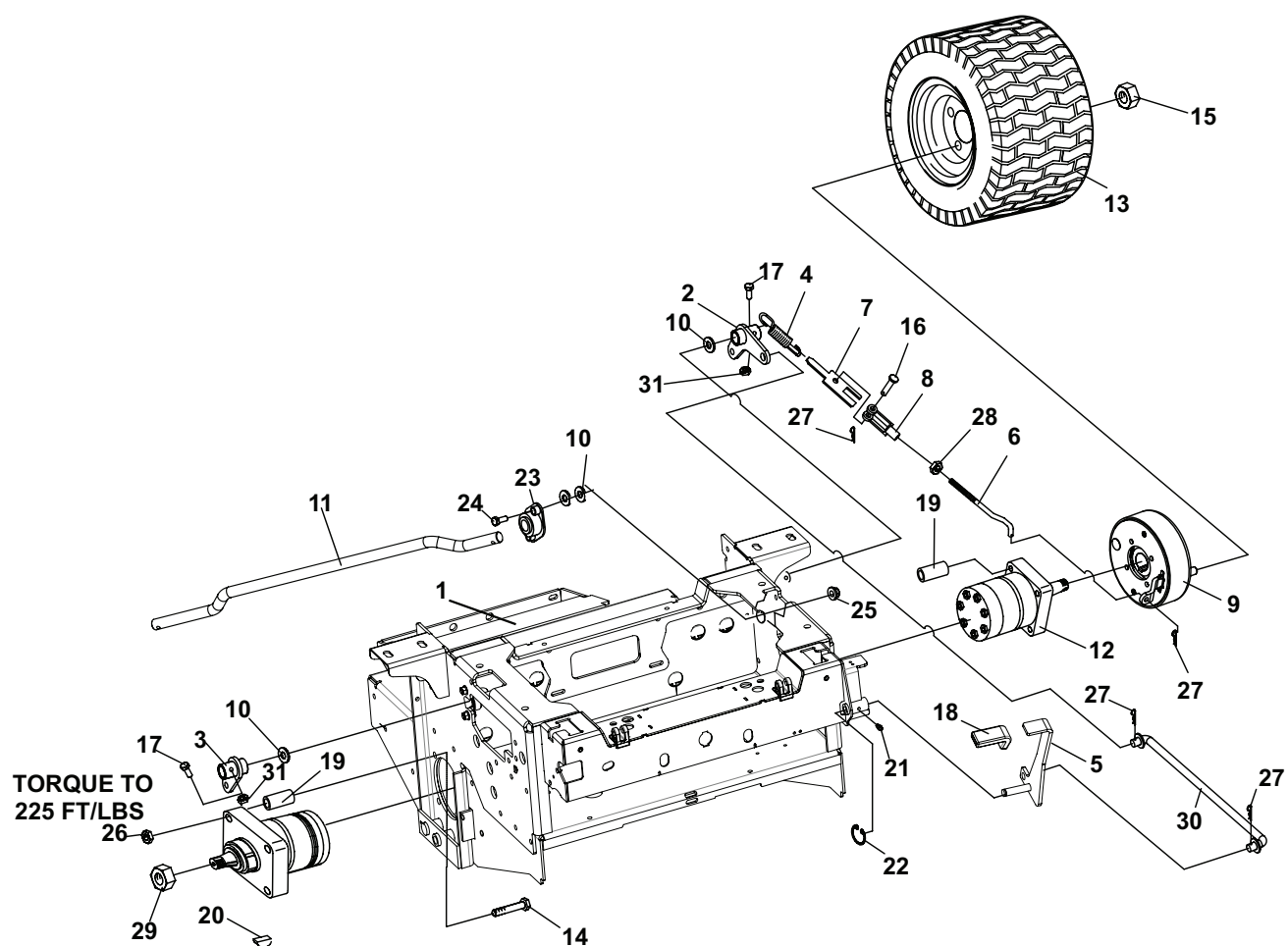


## FIGURE 4

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4165428	TANK-FUEL LH (INCLUDES ITEMS 15, 31-33, 35)	1				
2	4165429	TANK-FUEL RH (INCLUDES ITEMS 15, 31-33, 357)	1				
3	4165930	S-CONTROL PANEL	1				
4	4167906	S ENG DECK W/LABS	1				
5	4165291	CAP-FUEL, RATCHET TYPE	2				
6	64123-50	BLT-HEX 3/8-16X1	8				
7	2188178	SWITCH-RETAINER	1				
8	64262-001	BLT-FLG HD 1/4-20 X 1/2	4				
9	88042N	HOSE CLAMP	12				
10	128010	KEY-SWITCH	1				
11	118020-16	CONTROL-THROTTLE 48.0	1				
12	2721505	SWITCH-PTO	1				
13	64025-15	NUT-HEX #10-24 KEPS	2				
14	64152-46	SCR.-SLT HH #10-24X1/2	2				
15	4132325	GROMMET-FUEL TANK	2				
16	4162977-015	HOSE,.25IDX.50OD	3				
17	64006-03	LOCKWSHR-3/8 HELICAL	8				
18	64163-31	WSHR 25/64X1X12	8				
19	2188161	VALVE-TANK SELECTOR	1				
20	4162977-001	HOSE,.25IDX.50OD X	3				
21*	4165692-01	FUEL-LINE TANK	2				
22*	4165668	FILTER-FUEL	2				
23*	4166704	CLAMP-FUEL	2				
24	128010-01	S-KEY SWITCH NYLON NUT	1				
25	128010-03	S-COVERED KEY	1				
26	4167193	PLUG-PLASTIC	1				
27	108009-03	CONTROL-CHOKE 51"	1				
28*	64025-04	NUT-3/8-24 HEX (CHOKE)	1				
29	4165120	METER-HOUR	1				
30	4171551	TEE-FITING	1				
31	4165763	ROLL-OVER VENT	2				
32	4165387	GROMMET-ROLL OVER	2				
33	4165667	FITTING-BARBED 90 DEG	2				
34*	970391	KIT-LIGHT ACCESSORY	1				
35	4165864	FITTING-HOSE, 1/4" TO 3/8"	1				
36	4171036	CANISTER-CARBON, 9 GAL	2				
37	88042-01	CLAMP-HOSE 3/16	6				
38	4162989-002	HOSE, FUEL LINE 104" LONG	3				

\*NOT ILLUSTRATED

### FIGURE 5

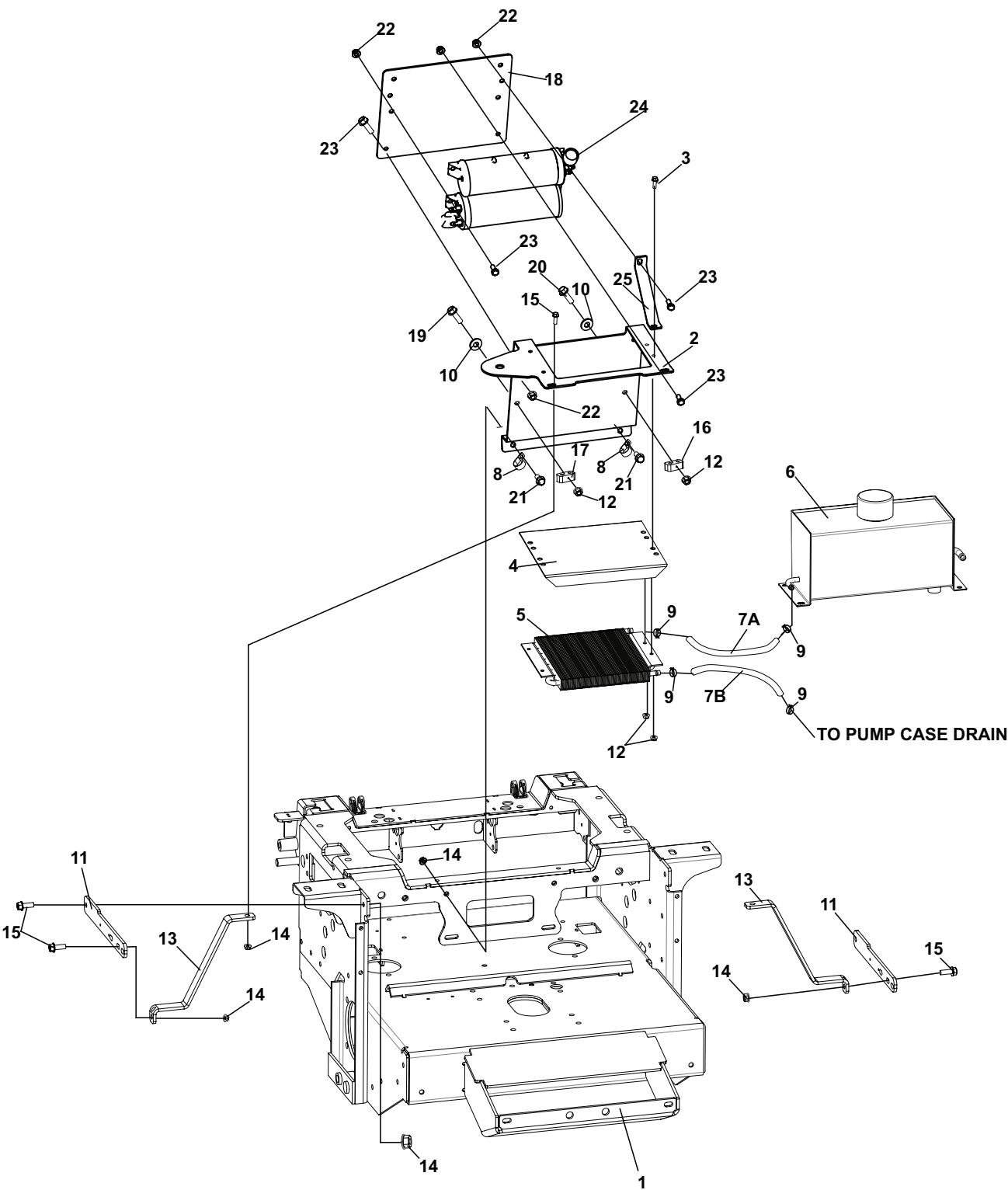




### FIGURE 5

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4167906	S-ENGINE DECK W/LABS	1	*NOT ILLUSTRATED			
2	4165701.7	WLDMT-BRAKE ARM LH	1				
3	4165700.7	WLDMT-BRAKE ARM RH	1				
4	128102	SPRING,EXTENSION	2				
5	4165449.7	WLDMT-BRAKE LEVER	1				
6	4159701	ROD-BRAKE CONTROL	2				
7	2182387.7	GUIDE-SPRING	2				
8	38020N	CLEVIS YOKE, 5/16 PLATE	2				
9	4167999	BRAKE-PARKER	2				
9A*	4167999-01	BRAKE-BACK PLATE	1				
9B*	4167999-02	BRAKE-DRUM	1				
9C*	4159281-003	BRAKE-SCREW	4				
10	64163-06	WSHR,.768/.756X1.25X14	A/R				
11	4159000	BAR-PARKING BRAKE	1				
12	4159280	MOTOR-PARKER	2				
		(INCLUDES ITEMS 20 & 29)					
*	970438	KIT-WHEEL HUB PULLER					
13	4171869	WHEEL-ASSY, 24X12.00-12	2				
	4171868-02	RIM12X8.50					
	4171869-01	TIRE-24X12.00-12					
		(61" DECKS ONLY)					
	4171868	WHEEL-ASSY, 23X10.5-12	2				
	4171868-02	RIM12X8.50					
	4171868-01	TIRE-23X10.50-12					
		(52" DECKS ONLY)					
14	64189-21	BLT-HEX SOC 1/2-13X4 1/2	8				
15	64187-03	WHEEL NUT-1/2-20	8				
16	64188-02	PIN, CLEVIS 5/16X1	2				
17	64123-07	BLT-HEX 1/4-20 X 1-1/2	2				
18	2188155	GRIP, 1/4X1X4-1/2	1				
19	2183063-01	SPACER, 32MM LONG	8				
20	64164-08	S-KEY FOR WHEEL MOTOR	2				
21	85010N	ZERK, 1/4-28 STR SLFTHRD	1				
22	64144-34	SNAP RING.50	1				
23	2188145	BEARING-.75ID SELF ALIGN	2				
24	64123-15	BOLT-3/8-16X3/4 HEX	4				
25	64141-4	NUT-WLF 3/8-16	4				
26	64229-05	NUT-NYLON LOCK 1/2-13	8				
27	64168-2	COTTER-HAIRPIN.08X1.19	4				
28	64025-03	NUT-HEX 5/16-24	2				
29	64025-31	NUT 1-20 UNSLOTTED TRW	2				
30	4159242	WLDMT-PRK BRAKE ROD	1				
31	64229-01	NUT-NYLON LCK 1/4-20	2				

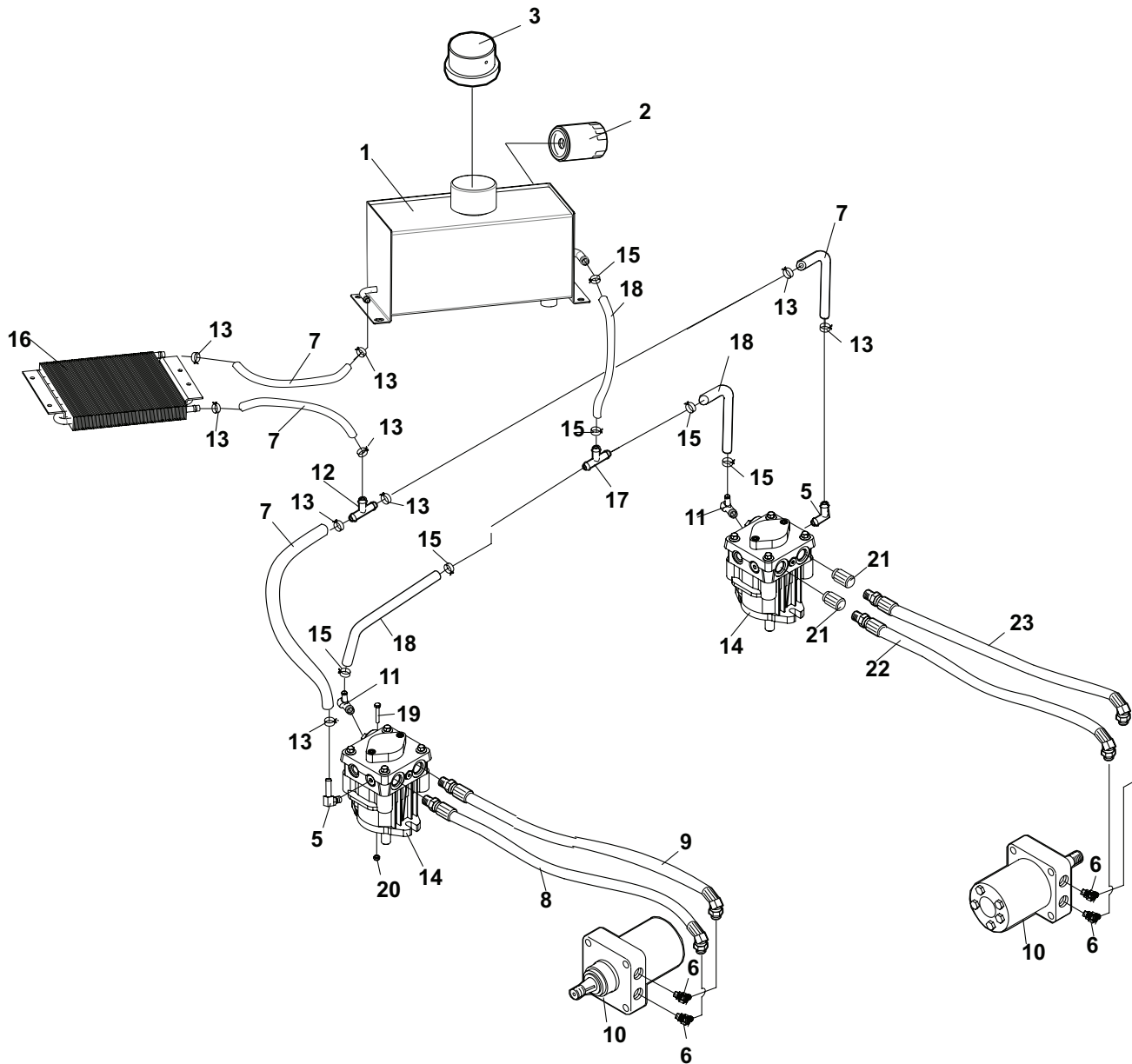
FIGURE 6



## FIGURE 6

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4167906	S ENGINE DECK W/LABS	1				
2	4166418.7	BRKT-COOLER FRONT	1				
3	64262-002	BLT-FLG HD 1/4-20 X 3/4	4				
4	2720891.7	SCREEN-OIL COOLER	1				
5	2188173	COOLER-OIL	1				
6	4167655	S HYD RSRVR W/LABS	1				
(69053-05 IS A SERVICEABLE LENGTH OF 55")							
7A	69053-05	3/8 HIGH TEMP HOSE	1				
7B	69053-05	3/8 HIGH TEMP HOSE	1				
8	48412-01	CABLE-CLIP N	2				
9	88042-04	CLAMP-3/4 CLIP	4				
10	64163-03	WSHR .256X.62X18GA	2				
11	4165492.7	ARM-BUMPER	2				
12	64229-01	NUT-NYLON LOCK 1/4-20	6				
13	4169246.7	BRKT-COOLER REAR	2				
14	64268-03	NUT-FL NYLON LOCK 3/8-16	6				
15	64262-012	BLT-FLG HD 3/8-16 X 1-1/4	6				
16	4165752	CLAMP-HOSE, 5/8IN	1				
17	4165751	CLAMP-HOSE, 1/2IN	1				
18	4171393.7	BRKT-MNTG, CARB CANISTER	1				
19	64123-07	BLT-HEX 1/4-20X1-1/2	1				
20	64123-60	BLT-HEX 1/4-20X2	1				
21	64262-011	BLT-FLG HD 3/8-16X1	2				
22	64268-02	NUT-FL NYLON LOCK 5/16-18	7				
23	64123-54	BLT-HEX 5/16-18X3/4	7				
24	4171036	CANISTER-CARBON, 9 GAL	2				
25	4171395.7	BRKT-MNTG, CARB CAN	1				

FIGURE 7

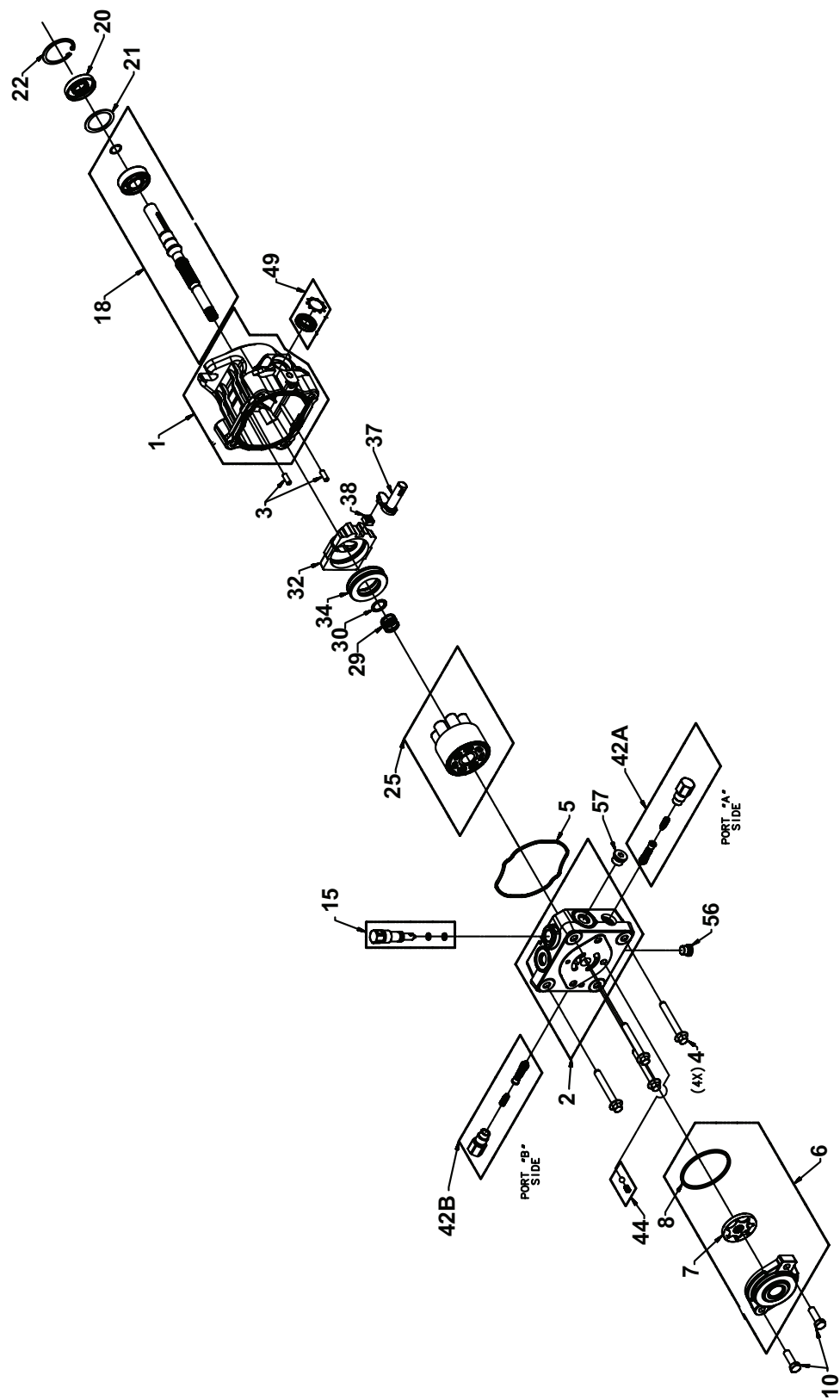


## FIGURE 7

ITEM	PART NO.	DESCRIPTION	QTY
1	4167655	S HYD RESERVOIR W/LAB	1
2	2720396	FILTER 25 MICRON	1
3	4167240	CAP-RESERVOIR	1
4	4160243	PLUG-HYDRAULIC TANK	1
5	158058-04	FTG-90 BRB 9/16-18X.38	2
6	108205-03	ELBOW-MALE 45 37-ORB	4
7	69053-05	3/8 HIGH TEMP HSE (69053-05 IS A SERVICEABLE LENGTH OF 55")	4
8	2188157-02	LH PUMP PORT B-HOSE	1
9	2720320-01	LH PUMP PORT A-HOSE	1
10	4159280	MOTOR-PARKER	2
11	2690030-02	FTG 9/16-18 ORB X 3/8	2
12	58026-01	3 WAY CONNECTOR 3/8	1
13	88042-04	CLAMP-HOSE 5/8	8
14	4168656	PUMP-HYDRO 12cc	2
15	88042-05	CLAMP-HOSE 13/16	6
16	2188173	OIL COOLER	1
17	58026-04	3 WAY CONNECTOR 3/16	1
18	4165341-02	HOSE-HYDR.	3
19	64123-60	BOLT, 1/4-20X2 HEX	2
20	64229-01	LOCKNUT-NYL 1/4-20	2
21	48089-03	FTG-STRAIGHT 8 ORB X 8	3
22	2720320-01	RH PUMP PORT B-HOSE	1
23	2720320-02	RH PUMP PORT A-HOSE	1

SAE PORT 'O' RING		
PART NUMBER	THREAD SIZE	AS-568#
158061-10	9/16-18	-906
158061-11	3/4-16	-908
158061-12	7/8-14	-910
158061-13	1-1/16-12	-912
158061-14	1-5/16-12	-916
158061-16	1-5/8-12	-920
158061-03	1-7/8-12	-924

FIGURE 8



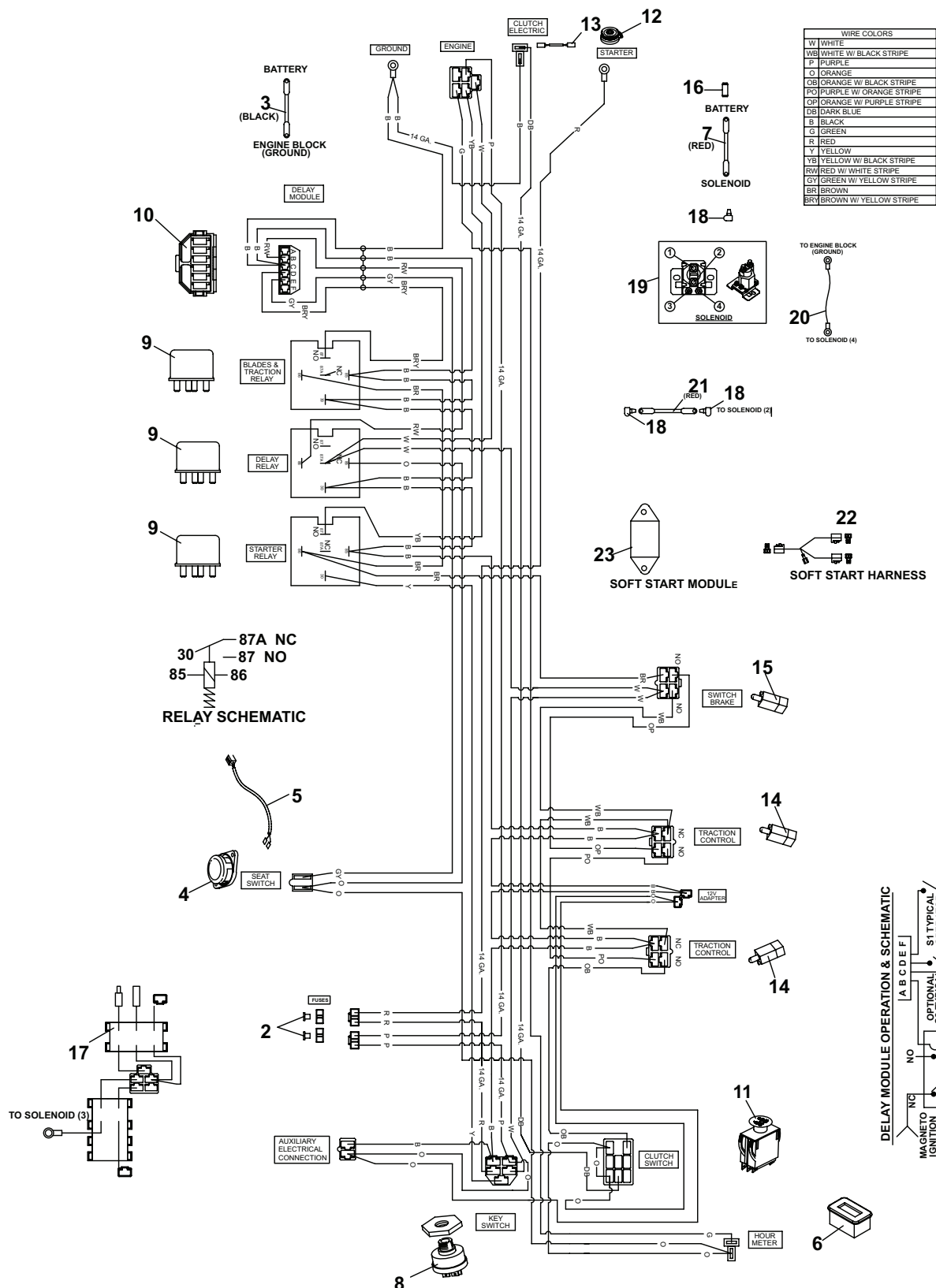
## FIGURE 8

ITEM	HYDROGEAR PART NO.	SCHILLER PART NO.	DESCRIPTION	QTY
1	70516	----	HOUSING KIT	1
2	72011	4164841-001	END CAP KIT	1
3	50641	----	STRAIGHT HEADLESS PIN	2
4	50969	2721615-01	FLANGE BOLT M8-1.25 X 60	4
5	54022	4168656-03	HOUSING O-RING	1
6	71261	4168656-01	CHARGE PUMP KIT	1
9	72254	----	KIT-CHARGE PUMP BOLT	1
15	2513030	4157242-019	BYPASS VALVE KIT (BLANK)	1
18	70522	4137278-05	PUMP SHAFT KIT	1
20	51161	----	LIP SEAL 17 x 40 x 12	1
21	50951	----	SPACER	1
22	50329	----	RETAINING RING	1
25	71971	4164841-003	CYLINDER BLOCK KIT	1
32	2003087	188059-11	SWASH PLATE	1
34	53502	4164841-004	BALL THRUST BEARING	1
37	2003005	188059-15	ARM-TRUNION	1
38	2000015	2721615-13	SLOT GUIDE	1
42A	70743	4168656-04	SHOCK VALVE KIT (.024")	1
42B	70742	4121354	SHOCK VALVE KIT (.031")	1
44	70402	4137278-07	CHARGE RELIEF VALVE KIT	1
49	2513043	2721615-17	TRUNNION SEAL/RETAIN KIT	1
57	9005110-5600	4157242-025	PLUG-9/16-20 STEEL	1

# AIR COOLED WIRE HARNESS

PROCAT

FIGURE 9

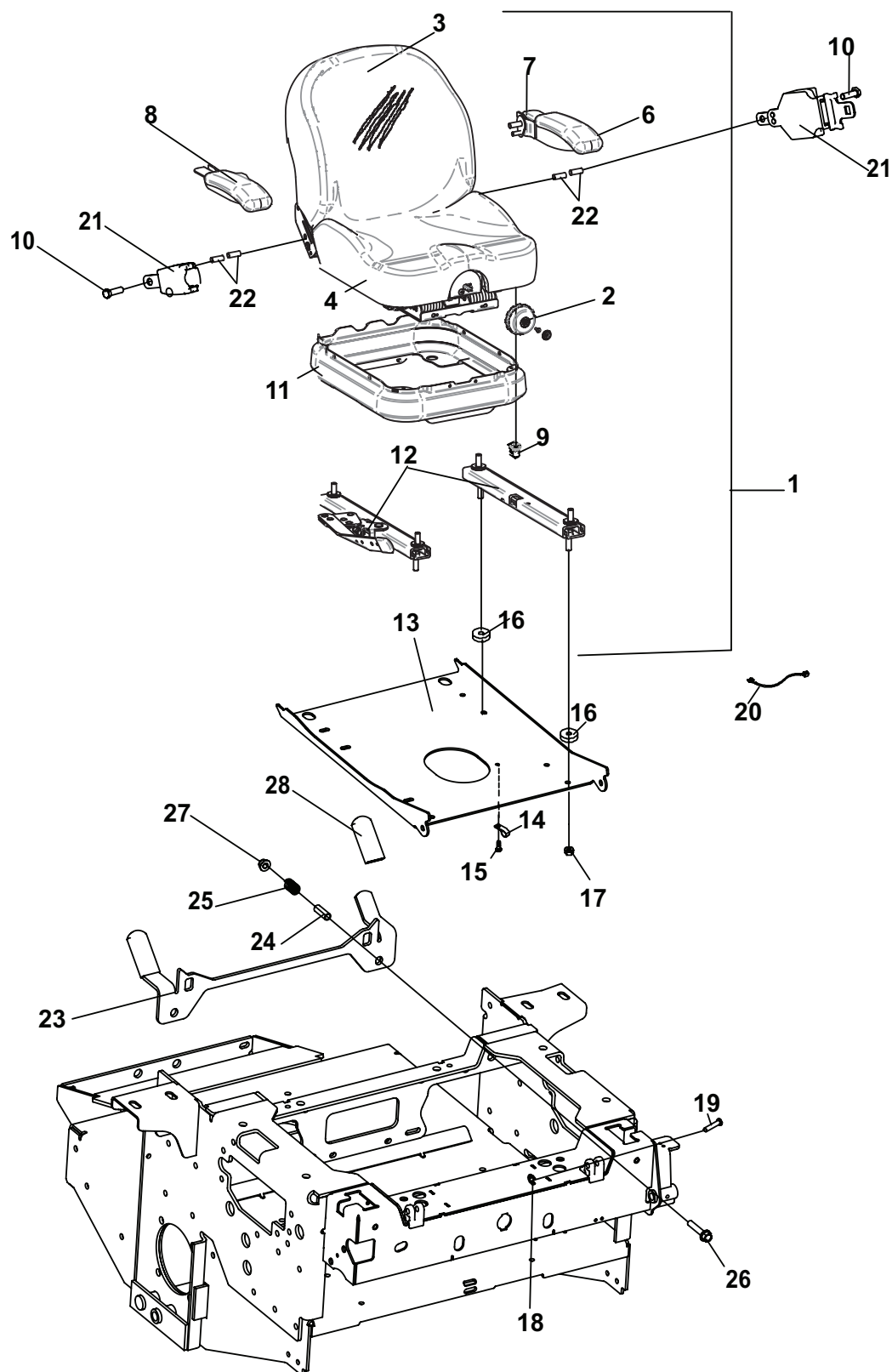




## FIGURE 9

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4165575	HARNESS-WIRING MAIN	1				
2	148082-20	FUSE-20 AMP	2				
3	108061-13	CABLE-BATTERY 36 BLACK	1				
4	4124009	SWITCH-SEAT, NO	1				
5	4143068	JUMPER-SEAT SWITCH	1				
6	4165120	METER-HOUR	1				
7	2722227-02	CABLE-BATT CONDUIT 36"	1				
		(USED ON 942833K MODEL)					
	2722227-01	CABLE-BATT CONDUIT 28"					
		(INCLUDES ITEMS 18)					
		(USED ON 942832K MODEL)					
8	128010	KEY-SWITCH	1				
9	2722325	RELAY-40AMP SEALED	3				
10	2188154	MODULE-DELAY	1				
11	2721505	SWITCH-PTO	1				
12	4165689	CLUTCH-ELECTRIC	1				
		(INCLUDES 2720949 WIRE ASSY)					
13	2720949	ASSY-CLUTCH WIRE	1				
14	108208	SWITCH-DBL POLE	2				
15	2188156	SWITCH-NONO DBL POLE	1				
16	112386	BOOT-BAT TERM POS	3				
17	2188224	HARNESS-JUMPER	1				
		(USED ON 942832K ONLY)					
	4164496	HARNESS-JUMPER	1				
		(USED ON 942833K ONLY)					
18	2308095	COVER-TERMINAL	2				
19	38665	SOLENOID	1				
		(USED ON 942832K ONLY)					
20	2188225	WIRE-GROUND	1				
		(USED ON 942832K ONLY)					
21	108061-04	CABLE-BATTERY 20 RED	1				
		(USED ON 942832K ONLY)					
22	4165923	HARNESS-SOFT START	1				
23	4169459	CONTROL-SOFT START	1				

FIGURE 10

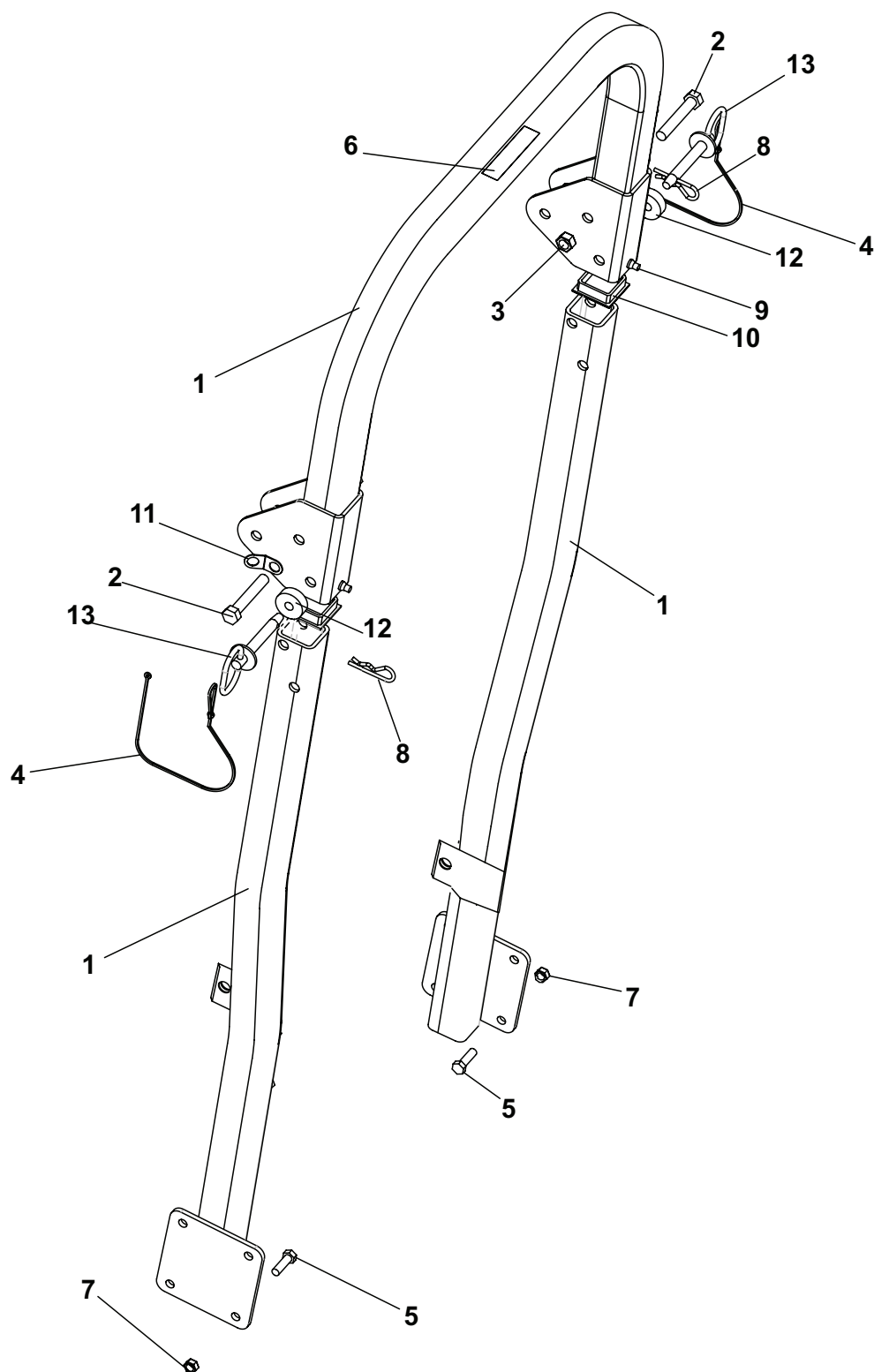


## FIGURE 10

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4169768	SEAT ASSY (INCLUDES ITEMS 2-8, 11-12)	1				
2	4169768-05	KNOB-WGHT ADJUST	1				
3	4169768-01	COVER- BACK VINYL	1				
4	4169768-06	COVER-CUSHION	1				
5*	4169768-08	KIT-ARM RH & LH (INCLUDES ITEMS 7&8)	1				
6	4165316-02	PAD-ARM SINGLE	2				
7	4169768-02	ARM KIT-LH	1				
8	4169768-07	ARM KIT-RH	1				
9	4124009	SWITCH-SEAT NO	1				
10	64123-216	BLT-7/16-20 X2-1/4	2				
11	4169768-03	BELLOWS W/HRDWR	1				
12	4169768-04	TRACK SET-SEAT	1				
13	4169779.7	PLATE-SEAT	1				
14	48228A	CABLE CLIP-INSULATED	2				
15	64152-23	SCREW 1/4-20X3/8	2				
16	2720975-07	SPACER	4				
17	64141-6	NUT-WLF 5/16-18	4				
18	64144-30	SNAP RING	2				
19	33138-09	PIN-CLEVIS	2				
20	4143068	JUMPER-SEAT SWITCH	1				
21	4169768-09	KIT-SEAT BELT (INCLUDES ITEMS 10, 22)	2				
22	4167820-02	SPACER	4				
23	4169777.2	BRKT-LATCH,SEAT	1				
24	4169778	SPACER-LATCH,SEAT	2				
25	41-053	SPRING COMP .681X1.125	2				
26	64262-014	BLT-FLANGE HD 3/8-16 X 2	2				
27	64268-03	NUT-FL NYLON LOCK 3/8-16	2				
28	4135868	COVER-HANDLE	2				

\* NOT ILLUSTRATED

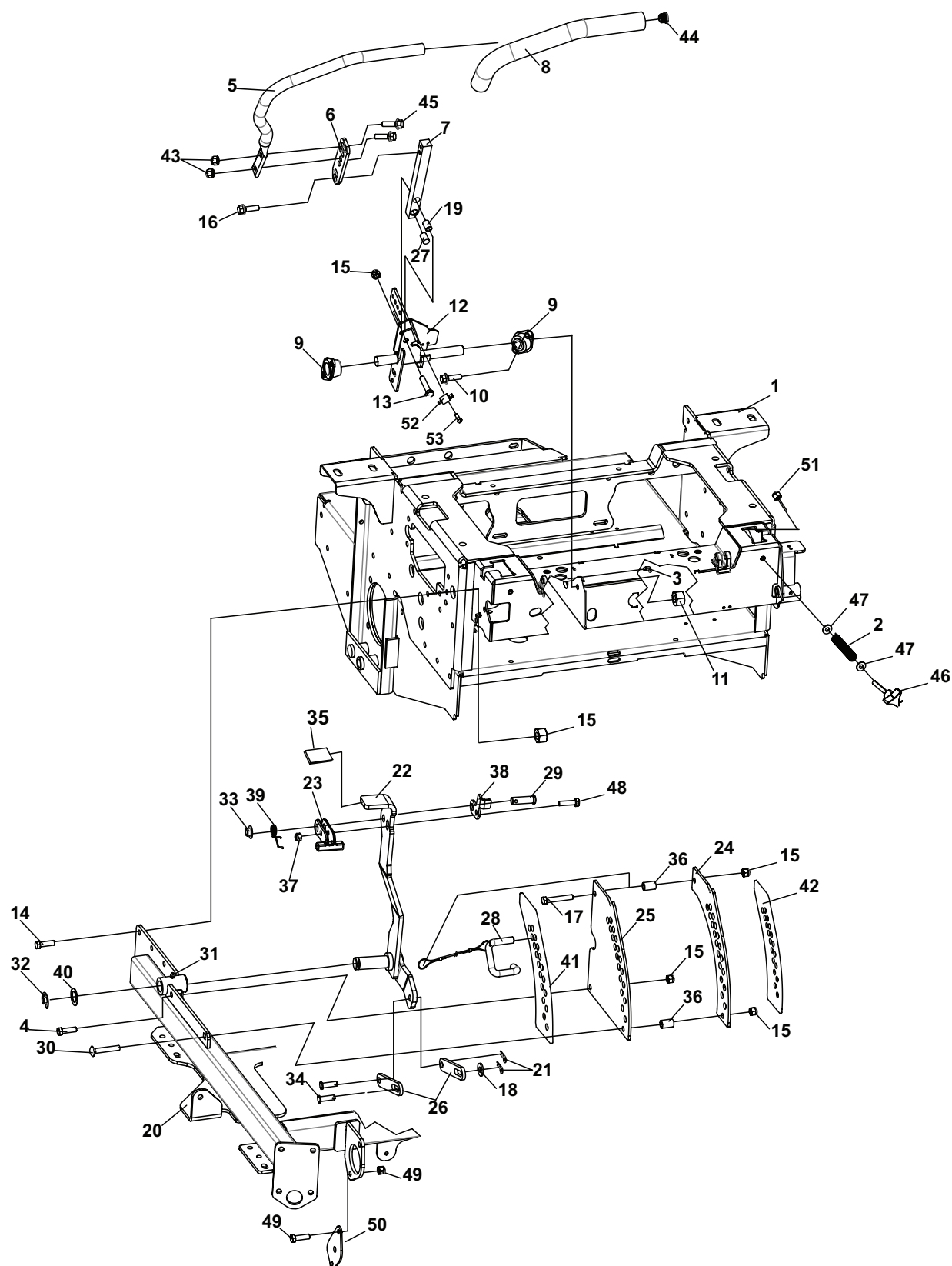
FIGURE 11



## FIGURE 11

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4168257	S-ROPS W/ LABELS (INCLUDES ITEMS 2-13)	1				
2	64123-31	BOLT-1/2-13 X 3	2				
3	64151-7	LOCKNUT- 1/2-13	2				
4	4162880	LANYARD-NYLON	2				
5	64262-011	BLT-FLG HD 3/8-16X1	8				
6	4160347	LABEL-WARNING ROPS	1				
7	64268-03	NUT-FL NYLN LOCK 3/8-16	8				
8	64168-1	PIN-COTTER	2				
9	4160343	BUMPER RUBBER	2				
10	4160344	PLUG	2				
11	4160348	WASHER-FORMED	2				
12	4162878	WASHER-RUBBER	2				
13	4162879	PIN-HITCH 1/2	2				
14*	4168073	LABEL-ROPS, TEST INFO	1				

FIGURE 12

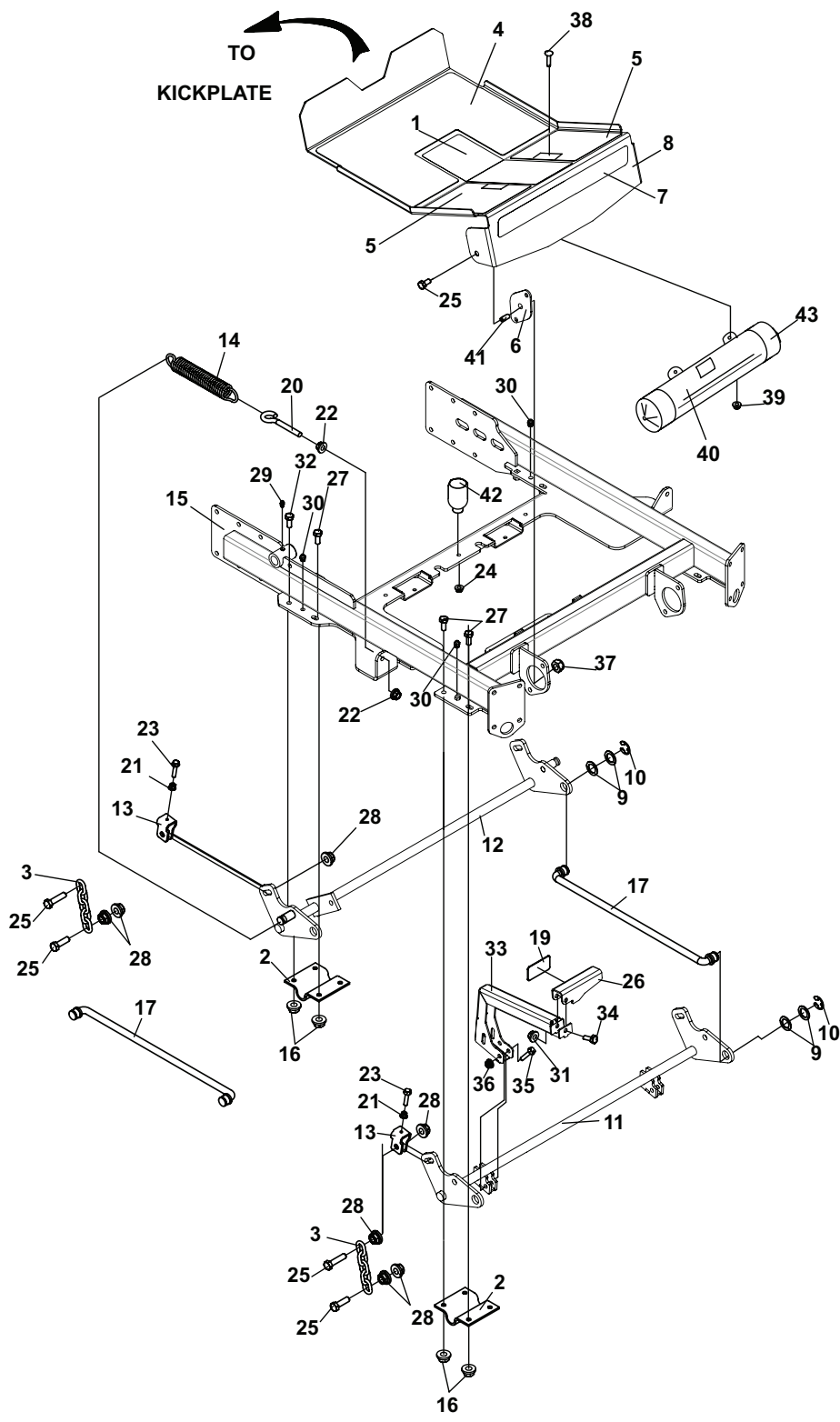


## FIGURE 12

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4167906	S ENGINE DECK W/LABS	1	31	85010N	ZERK, 1/4-28 STR SELF TH 11	
2	4163746	SPRING	2	32	64221-04	E-RING .875	1
3	4165962	ZERK-90 DEGREE	2	33	64175-05	NUT-PUSH 1/2	1
4	64123-50	BLT-HEX 3/8-16X1	1	34	64188-36	PIN, CLEVIS 7/16X1-1/4	2
5	4165426.7	LEVER-TRACTION CNTRL	2	35	4167151	GRIP	1
6	4166920.7	BRKT-TRACTION LEVER	2	36	2183071-03	SPACER-15.88X10.32X24	2
7	4169529	BAR-TRACTION CONTROL	2	37	64268-02	NUT-FL NY LOCK 5/16-18	1
8	4165432	GRIP-HANDLE	2	38	4167159.7	ARM-LATCH	1
9	2188145	BEARING-.SELF ALIGN	4	39	4167138	SPRING-TORSION	1
10	64123-15	BOLT-3/8-16X3/4 HEX	8	40	64163-65	WSHR .890X1.375X18GA	6
11	64141-4	NUT-WLF 3/8-16	8	41	4165654	LBL-ZT200 HT CUT OUTER	1
12	4167143	WLDMT-MTN CONTRL LH	1	42	4165655	LBL-ZT200 HT CUT INNER	1
*	4167144	WLDMT-MTN CONTRL RH	1	43	64268-03	NUT-FL NYLON LOCK 3/8-16	2
13	64123-87	BLT-HEX 3/8-16X1-3/4	2	44	4163692	CAP-END	2
14	64123-16	BLT-HEX 3/8-16X1-1/4	12	45	64018-7	BLT-CRG 3/8-16X1-1/4	4
15	64229-03	NUT-NYLON LOCK 3/8-16	20	46	4163446	KNOB	2
16	64262-011	BLT-FLG HD 3/8-16 X 1	8	47	64163-55	WSHR .328X.75X14 GA	4
17	64123-67	BLT-HEX 3/8-16X2	1	48	64123-47	BLT-HEX 5/16-18X1-1/4	2
18	64163-43	WSHR.443/.454X1X11GA	1	49	64229-03	NUT-NYLON LOCK 3/8-16	4
19	4165474	SPACER	2	50	4167139.7	PLATE-FOOT PLATE MNTNG	2
20	4165390.7	WLDMT-CRADLE	1	51	64229-02	NUT-NYLON LOCK 5/16-18	2
21	64168-2	COTTER-HAIRPIN.08X1.19	2	52	108208	SWITCH DBL POLE NC/NO	2
22	4167153.7	WLDMT-DECK LIFT LEVER	1	53	64197-015	BLT-TDFM 10-32X1/2 TORX	4
23	4162904.7	WLDMT-LVR STOP LATCH	1				
24	4165384.7	BRKT-INNER DECK LIFT	1				
25	4165385.7	BRKT-OUTER DECK LIFT	1				
26	4165389.7	BRACKET-LIFT LINK	2				
27	4162999	SPACER	2				
28	4165656	ASSY, PIN & LANYARD	1				
29	64188-76	PIN-CLEVIS 1/2X1-3/8	1				
30	64018-38	BOLT-CRG 3/8-16 X 2-1/4	1				

\*NOT ILLUSTRATED

FIGURE 13

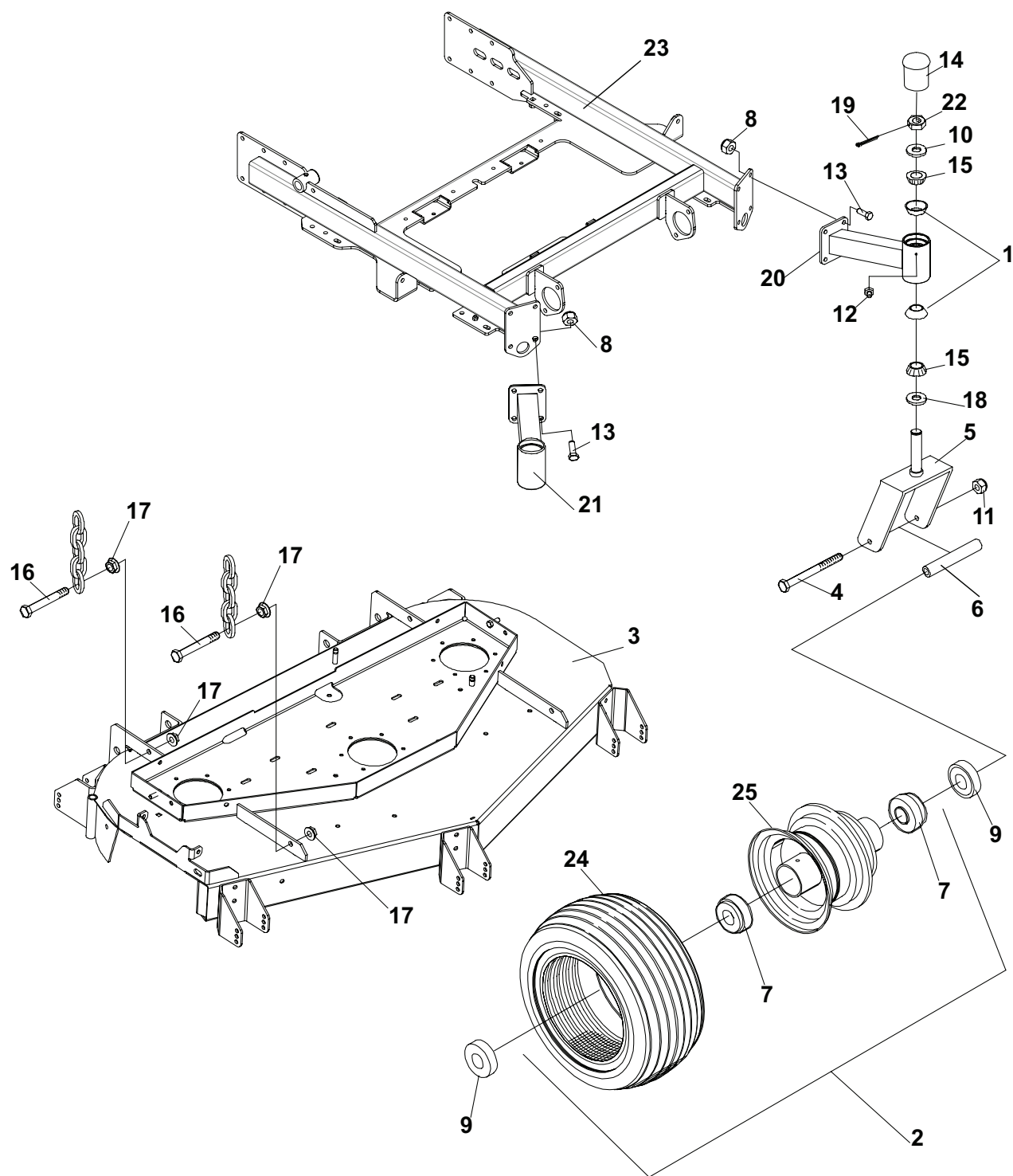




ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4165610	LABEL-WARNING	1				
2	2182356.7	BRACKET-SHAFT HANGER	4				
3	2188127	CHAIN-6.35 (.250) 5 LINKS	4				
4	4165647	MAT-FOOT PLATE LOWER	1				
5	4166266	MAT-FOOT PLATE UPPER	2				
6	4167139.7	PLATE-FOOTPLATE MNTG	2				
7	4165657	LABEL-PROCAT	1				
8	4166267	S-FOOT PLATE (BOBCAT) (INCLUDES ITEMS 4-7)	1				
9	64163-65	WASHER-.890X1.375X18GA	8				
10	64221-04	E-RING.875	4				
11	4165379.7	WLDMT-DECK LIFT, FRONT	1				
12	4165427.7	WLDMT-DECK LIFT, REAR	1				
13	2722630	CLIP-DECK HEIGHT ADJ	4				
14	4165675	SPRING-DECK LIFT	2				
15	4165390.7	WLDMT-CRADLE	1				
16	64268-03	NUT-FL NYLN LCK 3/8-16	16				
17	4167826	ROD-DECK LIFT	2				
18 *	4111842.7	BRKT-SPRING ANCHOR LH	1				
19	4165556	MAT-FOOT LIFT	1				
20	4113682	ROD-SPRING MOUNT	2				
21	64141-2	NUT-WLF 1/4-20	4				
22	64141-4	NUT-WLF 3/8-16	4				
23	64197-020	BLT-TDFM 1/4-20X1-1/2	4				
24	64268-02	NUT-FL NYLON LOCK 5/16-18	3				
25	64123-281	BLT-HEX 1/2-13X2 FL THRD	10				
26	4165596.7	BRKT-FOOT, LIFT LEVER	1				
27	64262-011	BLT-FLG HD 3/8-16 X 1	16				
28	64141-13	NUT WLF 1/2-13	16				
29	85010N	ZERK, 1/4-28 STR SLFTHRD	1				
30	85051	ZERK-1/8 PIPE	6				
31	64229-03	NUT-NYLON LOCK 3/8-16	1				
32	64018-3	BLT-CRG 3/8-16X1	2				
33	4165593.7	WLDMT-FOOT PEDAL	1				
34	64123-100	BLT-HEX 3/8-16X2-1/4	1				
35	64123-67	BLT-HEX 3/8-16X2	2				
36	64001-6	NUT-HEX JAM 3/8-16	2				
37	64229-05	NUT-NYLON LOCK 3/8	2				
38	64018-2	BLT-CRG 1/4-20X3/4	2				
39	64268-01	NUT-FL NYLON LOCK 1/4-20	2				
40	4160281	DOCUMENT TUBE	1				
41	4163802-01	SPACER-1.0 X .516 X .75	2				
42	4164210	BUMPER-RUBBER	3				
43	38061A	CAP-DOCUMENT TUBE	1				

\*NOT ILLUSTRATED

FIGURE 14

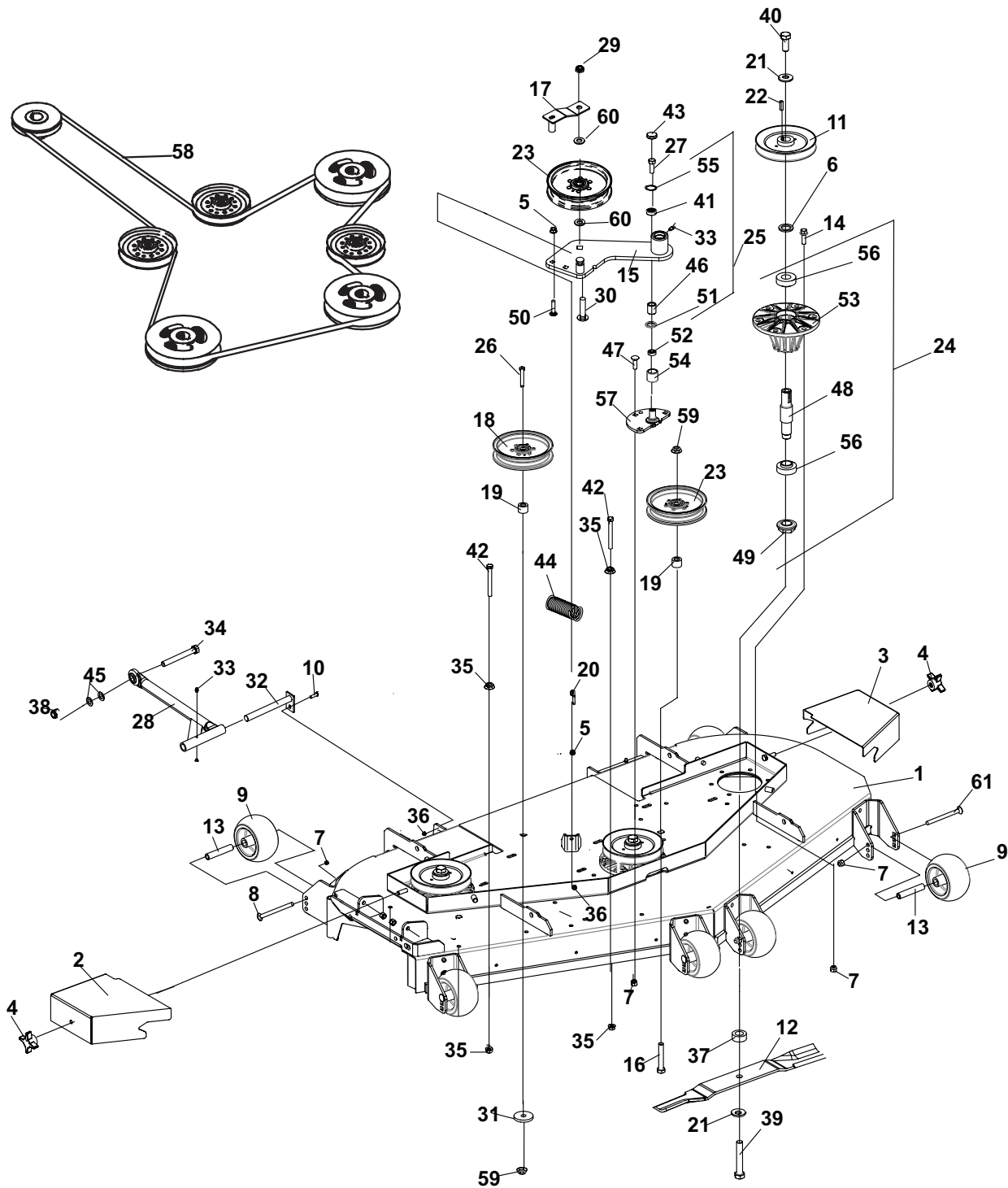


ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	48043-03C	CUP, OUTER BEARING	4				
2	2722326	ASSY-WHL 13X6.5-6 (INCLUDES ITEMS 7, 24, & 25)	2				
3		DECK/W LABS					
4	64123-223	BOLT-3/4-10 X 10	2				
5	4171883.7	WLDMT-CASTER YOKE	2				
6	2722230-03	SPANNER	2				
7	2722228-03	BEARING	2				
8	64229-03	NUT-NYLON LOCK 3/8-16	8				
9	2722231	SPACER-END	4				
10	64163-26	WASHER	2				
11	64229-07	LOCKNUT-NYLON 3/4-10	2				
12	85010N	ZERK, 1/4-28 STR SLF THD	2				
13	64262-011	BLT-HEX 3/8-16X1	8				
14	4162986	END CAP	2				
15	48043-04C	CONE, OUTER BEARING	4				
16	64123-281	BLT-HEX 1/2-13X2 FLLTHD	8				
17	64141-13	NUT WLF 1/2-13	16				
18	48480	SEAL CR 12411	2				
19	64140-5	COTTER PIN	2				
20	4171076.7	WLDMT-CSTR ARM 52 LH (USED WITH 52" DECKS)	1				
	4169814.7	WLDMT-CSTR ARM 61 LH (USED WITH 61" DECKS)					
21	4171073.7	WLDMT-CSTR ARM 52 RH (USED WITH 52" DECKS)	1				
	4169832.7	WLDMT-CSTER ARM 61 RH (USED WITH 61" DECKS)					
22	64025-20	NUT-HEX 3/4-16 SLOT U	2				
23	4165390.7	WLDMT-CRADLE	1				
24	2722326-01	TIRE-13X6.50-6 SMTH TRD	2				
25	2722326-02	RIM ASM-W/VALVE	2				

# 52" SIDE DISCHARGE

PROCAT

FIGURE 15



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4170629	S-DECK W/ LABELS 52" ZT2	1	45	64163-93	WSHR-.635 X 1.12 X.062	4
2	4165608.7	COVER-BELT RH	1	46	548138	BRG NDL .88 1.21	1
3	4165609.7	COVER-BELT LH	1	47	64018-7	BOLT-CRG 3/8-16 C 1-1/4	3
4	38524	KNOB-4 PRONG 3/8-16	2	48	2183070-02	SHAFT-SPINDLE	3
5	64141-6	NUT-WLF 5/16-18	2	49	38315	NUT-SPINDLE	3
6	64163-64	WSHR 1.015X1.500X14GA	3	50	64018-34	BLT-CRG 5/16-18 x 1-1/2	1
7	64229-03	NUT-NYLON LOCK 3/8-16	28	51	521438	GREASE SEAL	1
8	64123-173	BLT-HEX 3/8-16X4-1/2	3	52	4163014	SPACER	1
9	2721512	ROLLER-5X2.75 CENTERED	6	53	4164948	HOUSING-SPINDLE 6 HOLE	3
10	64123-68	BLT-HEX 5/16-18X1	2	54	4163155	INNER RING	1
11	4165646	PULLEY-5.25 DEEP GRVE	3	55	64144-40	SNAP RING-2NTERNL	1
12	112111-02	BLADE 18.00 OFFST HLFT	3	56	4167554-01	BEARING-SPINDLE SEALED	6
13	2720685	SPACER-ROLLER	6	57	4170021.7	WLDMT-IDLER PIN	1
14	64262-012	BLT-FLG HD 3/8-16 X 1-1/4	18	58	4169640	BELT-CUTTERDECK 52"	1
15	4168888.7	WLDMT-IDLER ARM	1	59	64268-05	NUT-FL NYLON LOCK 1/2-13	2
16	64018-46	BLT-CRG 1/2-13X3-1/2	1	60	64163-67	WSHR-5/16 X 1X 12 GA	2
17	4168884.7	GUIDE, BELT	1	61	64018-30	BLT-CRG 3/8-16 X 4-1/2	3
18	4165953	PULLEY-IDLER, 6.0	1				
19	4152578-02	SPACER-2.0 X .515 X1.07	2				
20	4169597	EYE BOLT-5/16-18 X 1-1/2	1				
21	64209-03	SPRING WASHER.67 ID	6				
22	64164-12	KEY-1/4X1 SQ	3				
23	128169	PULLEY IDLER 5.50	2				
24	4171231	ASSY-CTTERDECK SPNDL (INCLUDES ITEMS 48, 53, & 56)	3				
25	4168886	ASSY-IDLER ARM 48-52 (INCLUDES ITEMS 15, 33, 41, 46, 51, & 55)	1				
26	90-0828	S/B BOLT 1/2-13X3 1/2 NC	1				
27	64270-02	BLT-HEX M10-1.5x30 ISO	1				
28	4133155.7	WLDMT-PUSH ARM ZT2	2				
29	64151-37	NUT-HEX, 1/2-13NYLON JAM	1				
30	64018-45	BLT-CRG, 1/2-13 X 2-1/4	1				
31	64163-74	WSHR-.516X2.00X.25 PLT	1				
32	2186125	WLDMT-LOCK PUSHBAR	2				
33	85010N	ZERK 1/4-28 STR SLF THRD	5				
34	64123-152	BLT-HEX 5/8-11X5	2				
35	64141-4	NUT-WLF 3/8-16	4				
36	64229-02	NUT-NYLON LOCK 5/16-18	3				
37	4118314	SPACER-BLADE 16MM	3				
38	64229-06	NUT-NYLON LOCK 5/8-11	2				
39	64123-187	BLT-HEX 5/8-18 X 3 3/4	3				
40	64123-208	BLT-HEX 5/8-18X1-1/2	3				
41	4128004	BEARING-BALL 10 X 26 X 8	1				
42	64123-171	BLT-HEX 3/8-16X3-1/2	2				
43	4128002	CAP-26 X 7 END	1				
44	4168493	SPRING-EXTENSION	1				

\* NOT ILLUSTRATED

# PROCAT

This diagram is an exploded view of a mechanical assembly, likely a piece of industrial machinery. It features numerous numbered components (1 through 61) that are shown in their relative positions for assembly. The main body of the machine is a large, complex structure with various mounting points and internal components. Key parts include:
 

- Top Section:** A large circular component (11) with a central hub and spokes, connected to a vertical shaft (21) and a horizontal shaft (22). A large pulley (53) is also visible.
- Drive Mechanism:** A series of pulleys and belts (58) are shown at the top left, connected to a motor or drive unit (2).
- Internal Components:** Various gears, bearings, and shafts (e.g., 17, 18, 19, 20, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 54, 55, 56, 57, 59, 60) are shown in their relative positions.
- Base and Support:** The entire assembly is mounted on a base (1) with four wheels (9) for mobility. A large rectangular block (3) is also shown.
- Assembly Instructions:** The diagram includes various callouts and lines indicating the correct assembly sequence and orientation for each part.

## FIGURE 16

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4172470	S-DECK W/ LABELS 61"	1	46	548138	BRG NDL .88 1.21	1
2	4165456.7	BELT COVER-RH	1	47	64018-7	BOLT-CRG 3/8-16 C 1-1/4	3
3	4165455.7	BELT COVER-LH	1	48	2183070-02	SHAFT-SPINDLE	3
4	38524	KNOB-4 PRONG 3/8-16	2	49	38315	NUT-SPINDLE	3
5	64141-6	NUT-WLF 5/16-18	2	50	64018-34	BLT-CRG 5/16-18 x 1-1/2	1
6	64163-68	WSHR-1.015X1.5X9GA	6	51	521438	GREASE SEAL	1
7	64229-03	NUT-NYLON LOCK 3/8-16	27	52	4163014	SPACER	1
8	64123-173	BLT-HEX 3/8-16X4-1/2	3	53	4164948	HOUSING-SPINDLE 6 HOLE	3
9	2721512	ROLLER-5X2.75 CENTERED	7	54	4163155	INNER RING	1
10	64123-68	BLT-HEX 5/16-18X1	2	55	64144-40	SNAP RING-2NTERNL	1
11	2308140	PULLEY-ENGINE	3	56	4167554-01	BEARING-SPINDLE SEALED	6
12	112111-03	BLADE 21.00 OFFST HLFT	3	57	4170021.7	WLDMT-IDLER PIN	1
13	2720685	SPACER-ROLLER	7	58	4169463	BELT-CUTTERDECK 61"	1
14	64262-012	BLT-FLG HD 3/8-16 X 1-1/4	18	59	64268-05	NUT-FL NYLON LOCK 1/2-13	2
15	4168888.7	WLDMT-IDLER ARM	1	60	64163-67	WSHR-5/16 X 1X 12 GA	2
16	64018-46	BLT-CRG 1/2-13X3-1/2	3	61	64018-30	BLT-CRG 3/8-16 X 4-1/2	4
17	4168884.7	GUIDE, BELT	1				
18	4165953	PULLEY-IDLER, 6.0	1				
19	4152578-02	SPACER-2.0 X .515 X1.07	2				
20	4169597	EYE BOLT-5/16-18 X 1-1/2	1				
21	64209-03	SPRING WASHER.67 ID	6				
22	64164-12	KEY-1/4X1 SQ	3				
23	128169	PULLEY IDLER 5.50	2				
24	4171231	ASSY-CTTERDECK SPNDL	3				
		(INCLUDES ITEMS 48, 50, 53, & 56)					
25	4168886	ASSY-IDLER ARM 48-52	1				
		(INCLUDES ITEMS 15, 33, 41, 46, 51, & 55)					
26	90-0828	S/B BOLT 1/2-13X3 1/2 NC	1				
27	64270-02	BLT-HEX M10-1.5x30 ISO	1				
28	4133155.7	WLDMT-PUSH ARM ZT2	2				
29	64151-37	NUT-HEX, 1/2-13NYLON JAM	1				
30	64018-45	BLT-CRG, 1/2-13 X 2-1/4	1				
31	64163-74	WSHR-.516X2.00X.25 PLT	1				
32	2186125	WLDMT-LOCK PUSHBAR	2				
33	85010N	ZERK 1/4-28 STR SLF THRD	5				
34	64123-152	BLT-HEX 5/8-11X5	2				
35	64141-4	NUT-WLF 3/8-16	4				
36	64229-02	NUT-NYLON LOCK 5/16-18	3				
37	4118314	SPACER-BLADE 16MM	3				
38	64229-06	NUT-NYLON LOCK 5/8-11	2				
39	64123-187	BLT-HEX 5/8-18 X 3 3/4	3				
40	64123-208	BLT-HEX 5/8-18X1-1/2	3				
41	4128004	BEARING-BALL 10 X 26 X 8	1				
42	64123-171	BLT-HEX 3/8-16X3-1/2	2				
43	4128002	CAP-26 X 7 END	1				
44	4168493	SPRING-EXTENSION	1				
45	64163-93	WSHR-.635 X 1.12 X.062	4				

\* NOT ILLUSTRATED

FIGURE 17

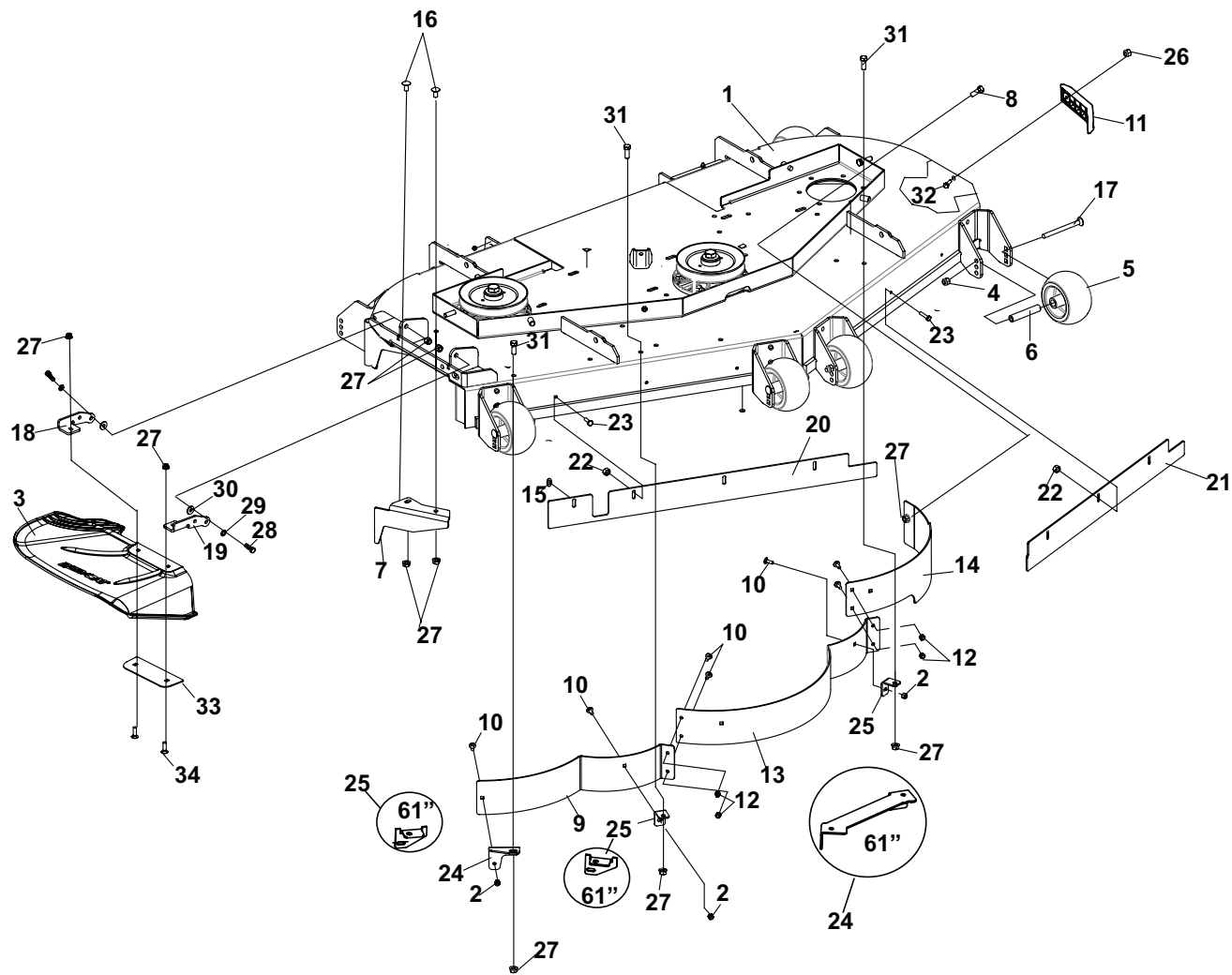




FIGURE 17

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4172470	S-DECK W/ LABELS 61"	1	22	64141-2	NUT-WLF 1/4-20	7
2	64268-01	NUT-FL NYLON LOCK 1/4-20		23	64123-114	BLT-HEX 1/4-20X1	7
		QTY 3 ON 52"		24	4172236.2	BRKT-BAFFLE MNTG 61"	1
		QTY 4 ON 61"			4168515.2	BRKT-BAFFLE MNTG 52"	1
3	4172328	CHUTE-ASSY	1	25	4172234.2	BRKT-BAFFLE MNTG 61"	2
4	64229-03	NUT-NYLON LOCK 3/8-16	7		4168514.2	BRKT-BAFFLE MNTG 52"	2
5	2721512	ROLLER-5X2.75 CENTERED	7	26	64268-02	NUT-FL NYLON LOCK 5/16-18	2
6	2720685	SPACER-ROLLER	7	27	64268-03	NUT-FL NYLON LOCK 3/8-16	
7	4173420.2	BAFFLE-DISCHARGE 52"	1			QTY 11 ON 52"	
	4172979.2	BAFFLE-DISCHARGE 61"				QTY 12 ON 61"	
8	64123-50	BLT-HEX 3/8-16X1		28	64123-16	BLT-HEX 3/8-16 X 1-1/4	2
		QTY 1 ON 52"		29	4169871	WSHR-BELLVILLE .382 UD	2
		QTY 2 ON 61"		30	4169895	WSHR-FRICTION, UHMW	2
9	4172360.7	BAFFLE-FRONT,RH 61IN	1	31	64123-15	BLT-HEX 3/8-16X3/4	4
	4168516.7	BAFFLE-FRONT,RH 52IN	1	32	64018-9	BLT-CRG 5/16-18X3/4 G5	2
10	64018-2	BLT-CRG 1/4-20X3/4		33	4173063.7	PLATE-CUTE	1
		QTY 7 ON 52"		34	64018-49	BLT-CRG 3/8-16 X 1-1/2	2
		QTY 8 ON 61"					
11	4172339	PAD-WEAR, TRIM SIDE	1				
12	64229-01	NUT-NYLON LOCK 1/4-20	7				
13	4172361.7	BAFFLE-FRONT,CNTR 61IN	1				
	4165966.7	BAFFLE-FRONT,CNTR 52IN	1				
14	4172362.7	BAFFLE-FRONT,LH 61IN	1				
	4165965.7	BAFFLE-FRONT,LH52IN	1				
15	64163-55	WSHR .328X.75X14 GA	1				
16	64018-23	BLT-CRG 3/8-16X3/4	2				
17	64018-30	BLT-CRG 3/8-16 X 4-1/2	4				
18	4172461.7	BRKT-CHUTE, REAR	1				
19	4172460.7	BRKT-CHUTE, FRONT	1				
20	4172771.2	EXTENSION-61"RH	1				
	4166478.2	EXTENSION-52"RH	1				
21	4166481.2	EXTENSION-61"LH	1				
	4166479.2	EXTENSION-52"LH	1				

FIGURE 18

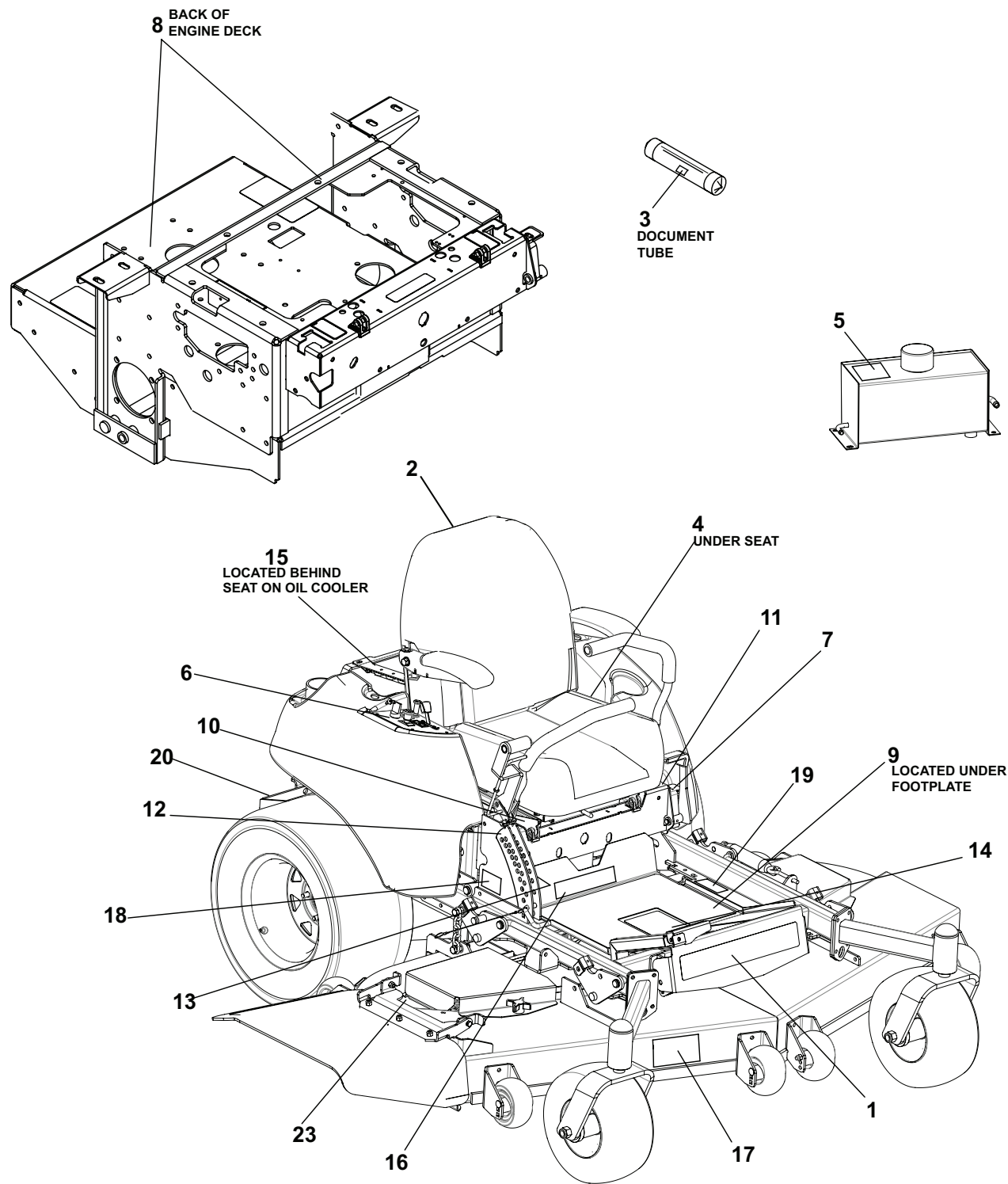


FIGURE 18

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4165657	LABEL-PROCAT	1				
2	2000577	LABEL WARNING LOCATED ON DECK TOP	3				
3	2000735	LABEL-OPER MAN	1				
4	2000590	LABEL, WARN BATTERY	1				
5	4165722	LABEL - HYDR OIL FILL	1				
6	4165639	LABEL-CONTROL PANEL	1				
7	2000693	LABEL - PARK BRAKE	1				
8	2000698	LABEL(DBL) - FUEL/LEAKS	2				
9	4171486	LABEL-ZT INFORMATION	2				
10	4165615	LABEL - RH TRACTION	1				
11	4165616	LABEL - LH TRACTION	1				
12	4165654	LABEL-HT CUT OUTER	1				
13	4165655	LABEL-HT CUT INNER	1				
14	4165610	LABEL-WARNING	1				
15	4147617	LABEL-FUEL	1				
16	4165865	LABEL-PROCAT	1				
17	4162915	LABEL-DECK SIZE, 52"	1				
	4162916	LABEL-DECK SIZE, 61"					
18	4116761	LABEL-MADE IN USA	1				
19	4165730	LABEL-MANUAL LOCATION	1				
20	4164946	DECAL-BOB-CAT	1				
21*	4169712	DECAL-SPRING LENGTH	1				
22*	4168522	MAT-CLAW MARKS	1				
23	4164269	LABEL-WARN THROWN OB	1				

\*NOT ILLUSTRATED

# **CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT**

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## **YOUR WARRANTY RIGHTS AND OBLIGATIONS**

The California Air Resources Board and Schiller Grounds Care, Inc. are pleased to explain the evaporative emission control system ("EECS") warranty on your 2015 model year BOB-CAT mower. In California, new mowers must be designed, built and equipped to meet the State's stringent anti-smog standards. Schiller Grounds Care, Inc. must warrant the EECS on your BOB-CAT mower for the period of time listed below provided there has been no abuse, neglect or improper maintenance of your mower.

Your EECS may include parts such as the carburetor, fuel-injection system, the ignition system, catalytic converter, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated emission related components.

Where a warrantable condition exists, Schiller Grounds Care, Inc. will repair your mower at no cost to you including diagnosis, parts and labor.

## **MANUFACTURER'S WARRANTY COVERAGE**

This EECS is warranted for two years. If any evaporative emission-related part on your equipment is defective, the part will be repaired or replaced by Schiller Grounds Care, Inc.

## **OWNER'S WARRANTY RESPONSIBILITIES**

As the mower owner, you are responsible for performance of the required maintenance listed in your Operator's Manual. Schiller Grounds Care, Inc. recommends that you retain all receipts covering maintenance on your mower, but Schiller Grounds Care, Inc. cannot deny warranty solely for the lack of receipts.

As the mower owner, you should however be aware that Schiller Grounds Care, Inc. may deny you warranty coverage if your mower or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.

You are responsible for presenting your mower to an authorized BOB-CAT dealer as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have a question regarding your warranty coverage, you should contact Schiller Grounds Care, Inc. at (866) 469-1242.

## **GENERAL EMISSIONS WARRANTY COVERAGE**

Schiller Grounds Care, Inc. warrants to the ultimate purchaser and each subsequent purchaser that the BOB-CAT mower is:

- Designed, built and equipped so as to conform with all applicable regulations; and
- Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to that part as described in Schiller Grounds Care, Inc.'s application for certification.

The warranty period begins on the date the BOB-CAT mower is delivered to an ultimate purchaser or first placed into service. The warranty period is two years.

Subject to certain conditions and exclusions as stated below, the warranty on emission-related parts is as follows:

- (1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions supplied, is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by Schiller Grounds Care, Inc. according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period.
- (2) Any warranted part that is scheduled only for regular inspection in the written instructions supplied is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.
- (3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions supplied is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by Schiller Grounds Care, Inc. according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.

(4) Repair or replacement of any warranted part under the warranty provisions herein must be performed at an authorized BOB-CAT dealer at no charge to the owner.

(5) Notwithstanding the provisions herein, warranty services or repairs will be provided at all of our authorized BOB-CAT dealer that are franchised to service the subject engines or equipment.

(6) The mower owner will not be charged for diagnostic labor that is directly associated with diagnosis of a defective, emission-related warranted part, provided that such diagnostic work is performed at an authorized BOB-CAT dealer.

(7) Schiller Grounds Care, Inc. is liable for damages to other engine or equipment components proximately caused by a failure under warranty of any warranted part.

(8) Throughout the mower warranty period stated above, Schiller Grounds Care, Inc. will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.

(9) Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of Schiller Grounds Care, Inc.

(10) Add-on or modified parts that are not approved by Schiller Grounds Care, Inc. may not be used. The use of any non approved add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claim. Schiller Grounds Care, Inc. will not be liable to warrant failures of warranted parts caused by the use of a non-approved add-on or modified parts.

#### **WARRANTED PARTS**

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such warranty coverage if Schiller Grounds Care, Inc. demonstrates that the BOB-CAT mower has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment limiting device is still eligible for warranty coverage. The following emission warranty parts list are covered:

- 1) Fuel System Parts
  - Fuel tank, cap and tether
  - Fuel lines, fittings, and clamps
  - Carbon canister
  - Vapor hoses, fittings, and clamps
- 2) Miscellaneous Items Used in Emission Control System
  - Valves, switches, and linkages
  - Connectors, fittings, and brackets

**SCHILLER GROUNDS CARE, INC.**  
**ONE BOB-CAT LANE**  
**P.O. BOX 469**  
**JOHNSON CREEK, WI 53038**  
**920-699-2000**  
**[www.schillergc.com](http://www.schillergc.com)**



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