



**933305G**

**36 HYDRO MID-FS481V KAW FS**

**933307G**

**36 HYDRO MID-FS541V ES KAW FS**

**934306G**

**48 HYDRO MID-FS541V KAW FS**

**934307G**

**48 HYDRO MID-FS541V ES KAW FS**

**935308G**

**54 HYDRO MID-FS600V KAW FS**

**935309G**

**54 HYDRO MID-FS600V ES KAW FS**

**MAN 4166108**  
Rev. A 11-2010

OPERATOR'S MANUAL 4166109



# 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.

**California Advertencia**

 **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.

**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.

BOB\_CAT 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**

| TABLE OF CONTENTS                     | FIGURES         | PAGE   |
|---------------------------------------|-----------------|--------|
| SAFETY.....                           |                 | 2      |
| ASSEMBLY/SET-UP INSTRUCTIONS .....    |                 | 3-13   |
| LUBRICATION.....                      |                 | 14, 15 |
| MAINTENANCE .....                     |                 | 16-18  |
| SERVICE CHART.....                    |                 | 19     |
| SERVICE RECORD .....                  |                 | 20     |
| ADJUSTMENTS .....                     |                 | 20-24  |
| BELT REPLACEMENT .....                |                 | 25     |
| PAGE INTENTIONALLY LEFT BLANK .....   |                 | 26     |
| PARTS SECTION.....                    |                 | 27     |
| UPPER ENGINE DECK ASSY .....          | FIGURE 1 .....  | 28, 29 |
| LOWER ENGINE DECK ASSY/CLUTCH.....    | FIGURE 2 .....  | 30, 31 |
| DRIVE WHEELS .....                    | FIGURE 3 .....  | 32, 33 |
| PARKING BRAKE / DOCUMENT TUBE .....   | FIGURE 4 .....  | 34, 35 |
| RECOIL START UPPER HANDLE.....        | FIGURE 5 .....  | 36, 37 |
| ELECTRIC START UPPER HANDLE .....     | FIGURE 6 .....  | 38, 39 |
| TRACTION CONTROLS .....               | FIGURE 7 .....  | 40, 41 |
| ELECTRIC START BATTERY .....          | FIGURE 8 .....  | 42, 43 |
| HYDRAULICS .....                      | FIGURE 9 .....  | 44, 45 |
| POWER UNIT DECALS .....               | FIGURE 10 ..... | 46, 47 |
| WIRE DIAGRAM-RECOIL START .....       | FIGURE 11 ..... | 48, 49 |
| WIRE DIAGRAM-ELECTRIC START .....     | FIGURE 12 ..... | 50, 51 |
| WIRING SCHEMATIC-RECOIL START .....   | FIGURE 13 ..... | 52     |
| WIRING SCHEMATIC-ELECTRIC START ..... | FIGURE 14 ..... | 53     |
| CUTTERDECK MOUNTINGQ.....             | FIGURE 15 ..... | 54, 55 |
| HYDROGEAR PUMP .....                  | FIGURE 16 ..... | 56, 57 |
| MOUNTING-36" FIXED DECK.....          | FIGURE 17 ..... | 58, 59 |
| MOUNTING-48" FIXED DECK.....          | FIGURE 18 ..... | 60, 61 |
| MOUNTING-54" FIXED DECK.....          | FIGURE 19 ..... | 62, 63 |
| BAFFLES.....                          | FIGURE 20 ..... | 64, 65 |
| CASTER ASSY-FIXED DECKS.....          | FIGURE 21 ..... | 66, 67 |
| SPINDLE ASSEMBLY .....                | FIGURE 22 ..... | 68, 69 |
| CUTTERDECK DECALS.....                | FIGURE 23 ..... | 70, 71 |
| WEIGHTS.....                          | FIGURE 24 ..... | 72, 73 |

## 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.'s 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 Schiller Grounds Care, 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 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.

## *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

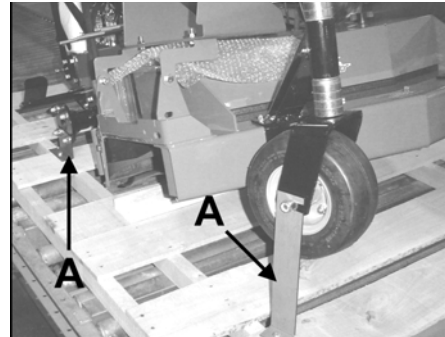
**MODEL NUMBER:** This number appears on sales literature, technical manuals and price lists.

**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 on engine deck top, left side.

**GENERAL NOTE: FRONT, REAR, RIGHT HAND AND LEFT HAND REFERENCES BELOW ARE WITH RESPECT TO AN OPERATOR AT THE CONTROLS.**

1. UNCRATE - Place shipping crate on a level surface and remove sides and top.

2. Remove screws securing shipping brackets A to pallet. Remove 2 front shipping brackets and tighten front axle bolts.



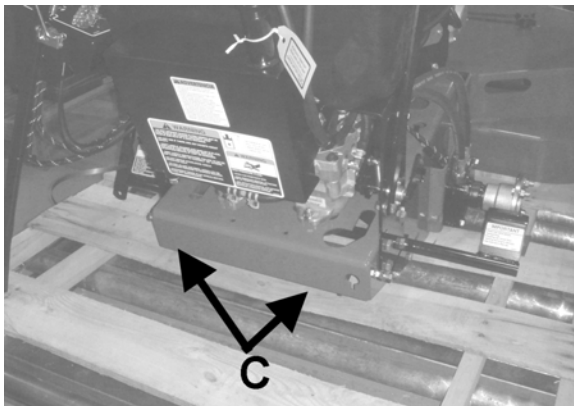
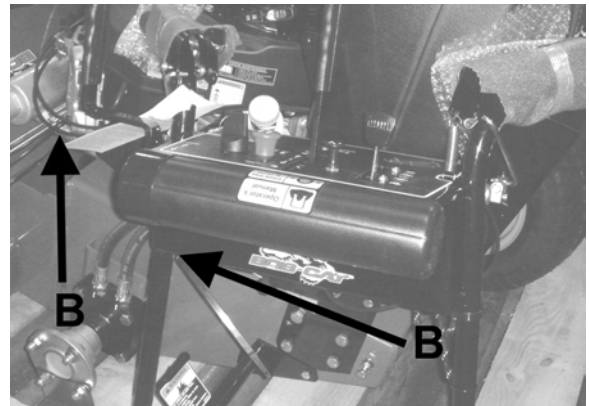
3. Remove wire ties B securing tires, upper handle, rods, and parts bag.

Raise rear of machine and support at location C on jackstands. Remove rear shipping brackets. Keep nuts. install drive wheels using the nuts removed from the shipping brackets. Torque to 85 ft./lbs.

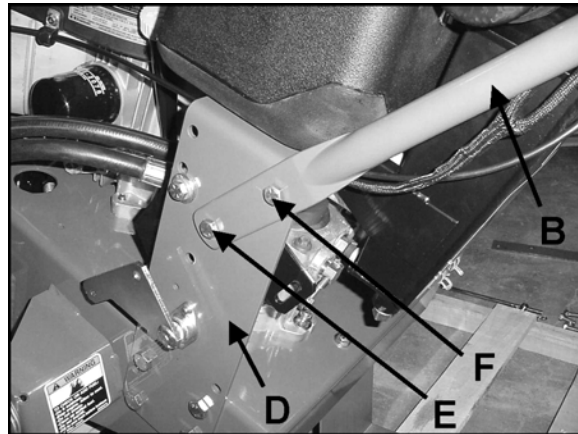
NOTE: One side of the wheel is dished deeper than the other.

On 36" units install with the deep dish to the inside.  
on the 48" & 52" units, install with the deep dish on the outside.

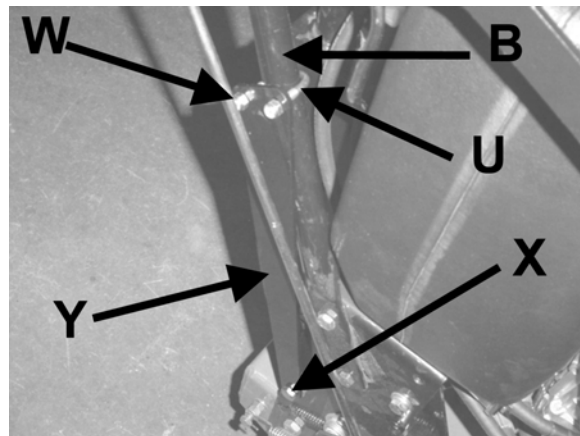
Tighten wheel nuts securely. Torque to 85ft./lbs.



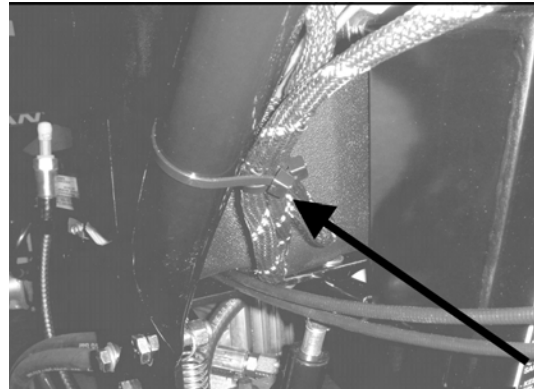
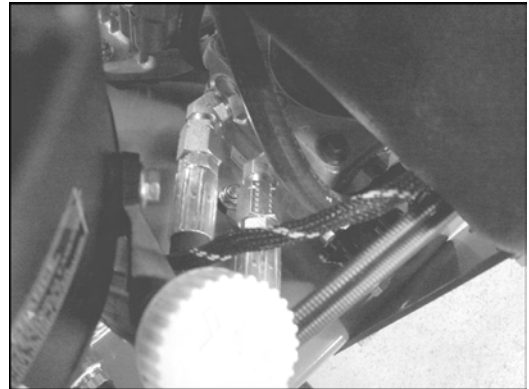
4. Install upper handle **B** to lower handle **D** using (2) 3/8-16 X 1-1/2" bolts and (2) 3/8-16 serrated flange nuts through upper holes **F**. Install (2) 3/8-16 X 1 bolts and (2) 3/8-16 locknuts through hole **E** and one of the three holes on **D** to give desired handle height.



5. Loosen bolt X connecting the Brace Y to lower handles. Align top of brace so the upper handle B is between the slot and hole.
6. Install U bolt U around upper handle and through hole and slot in the brace.
7. Install nylock nuts W on both ends of U-bolt and tighten. Repeat on other side.



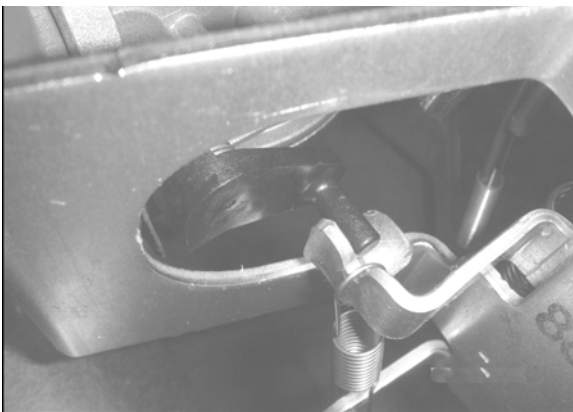
8. Route cables and wires as shown, and tie harness to upper handles as shown.



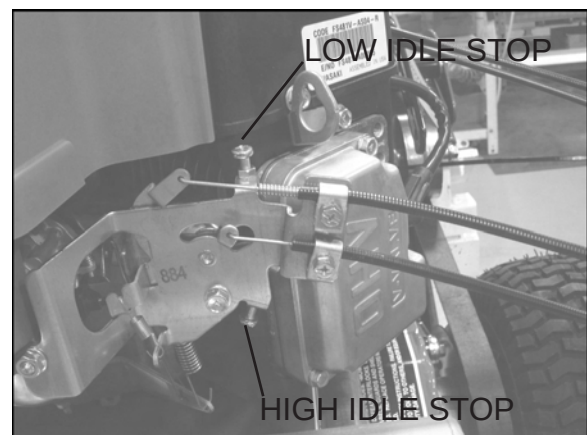
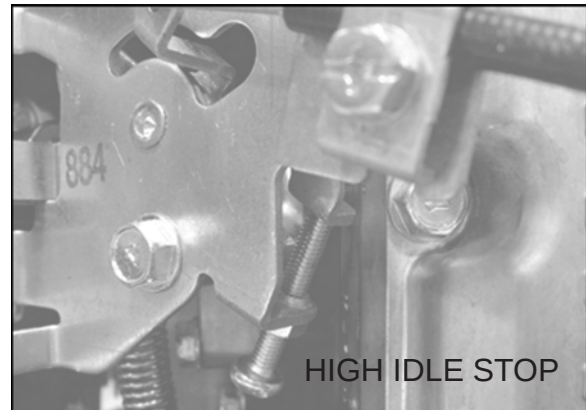
9. After installing handles, make sure to check the throttle and choke setting are correct.

Check the throttle at idle and full throttle. The lever should contact the upper stop at idle and the lower stop at full throttle.

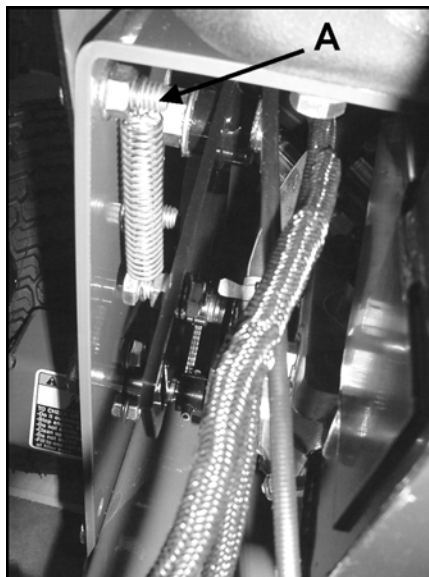
Make sure the choke is fully open with the choke cable pushed all of the way in, and fully choked with the cable pulled all of the way out.



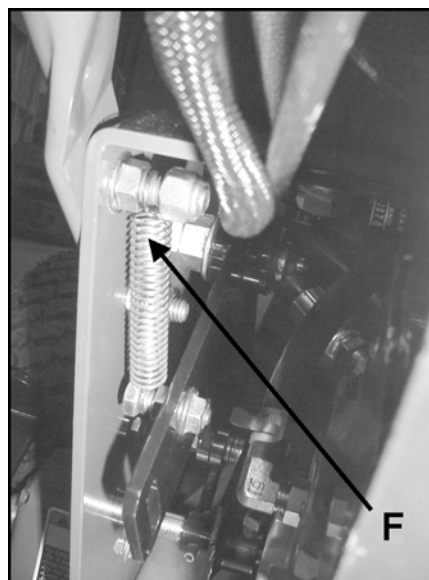
WITH THE CHOKE CABLE PUSHED IN, THE TWO LEVERS SHOULD ALMOST TOUCH.



10. Install spring on bolt **A**. Repeat for other side.



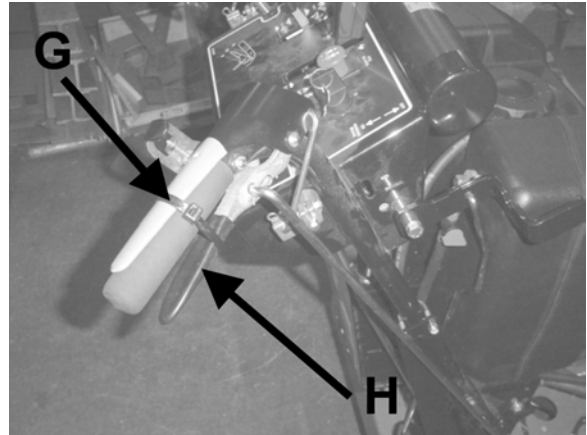
11. Install 3/8-16 nylon locknut to end of bolt on both sides as shown.



12. Open the bypass valves **X** on each pump by rotating handle counter-clockwise two turns.

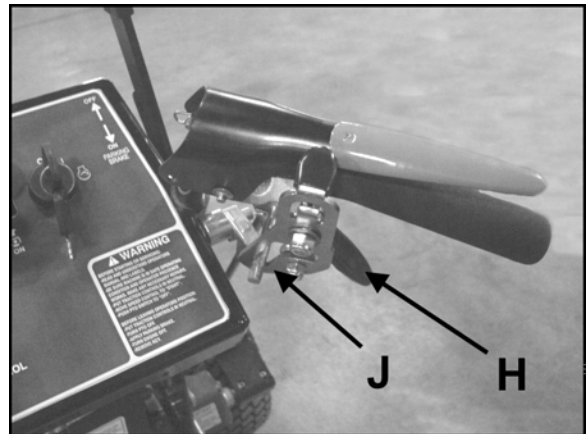


13. Cut and remove tie wrap **G** from the traction control lever **H**.



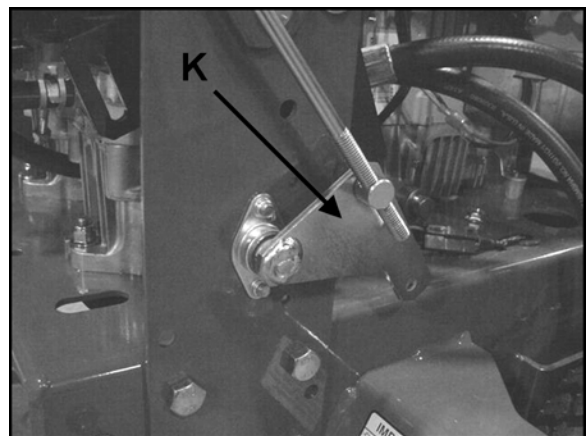
14. Locate the two longest rods removed in Step 3. Install the two traction control rods through the traction control lever **H**, flatwasher and traction lock **J** and secure with hairpins. Repeat on other side of upper handle.

**NOTE:** The flat washer in the inside of the traction control lever.

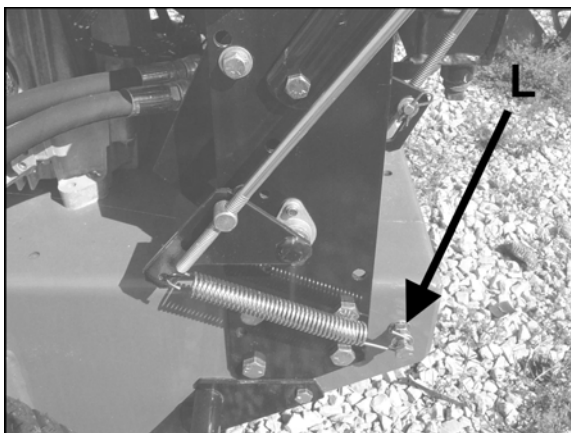


15. With the traction locks **J** in the neutral position, apply tension to the traction control rod to remove any slack and align swivel on traction control rod with the hole in pump arm **K** and install washer and hairpin clip. Repeat for other side.

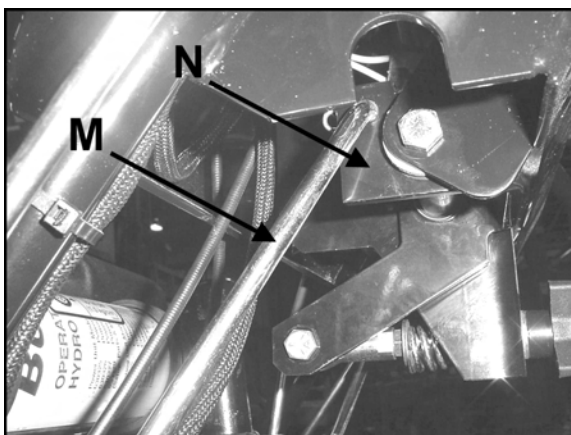
**NOTE:** The pump arm has some rotational play. Adjust the swivel on the traction control rod to the center of this play and secure to the pump arm with a flatwasher and hairpin as shown.



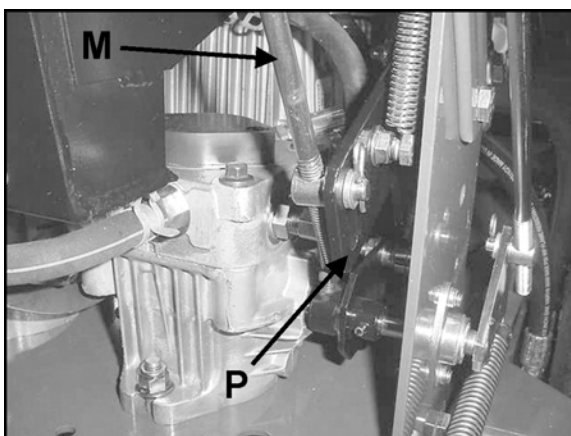
16. Attach spring to pump arm and then to bolt **L**. Repeat for other side.



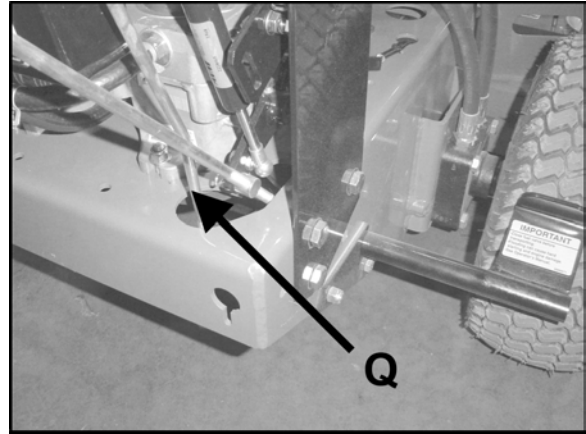
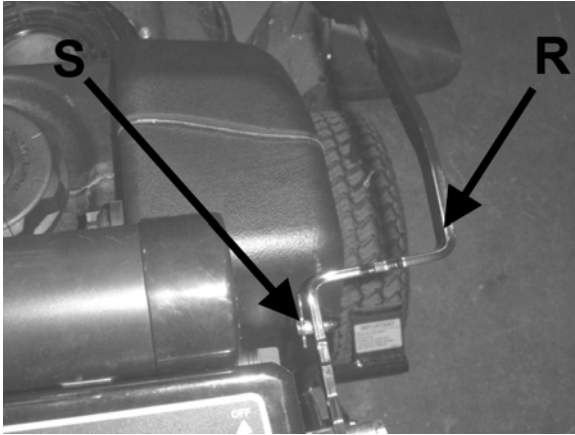
17. Connect speed control rod **M** to the speed control lever **N** and secure with hairpin. Repeat for other side. Install swivel to lower end of rods.



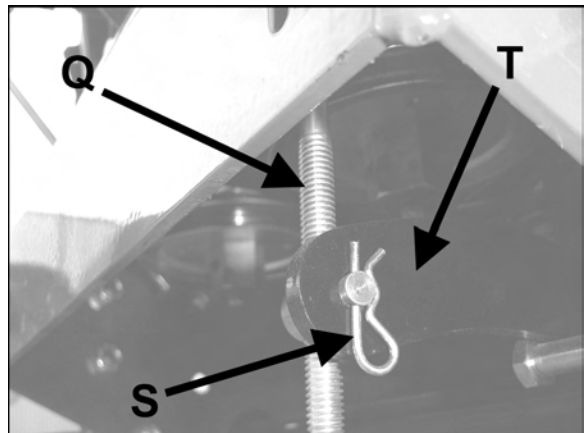
18. Set the speed control levers to neutral and adjust the swivel on the lower end of the speed control rod **M** so they engage the very top of the slot on the neutral plates **P** and secure with flatwasher and hairpin as shown. Repeat for other side.



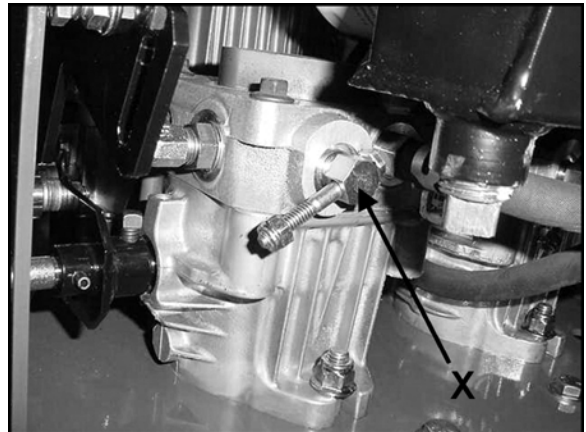
19. Insert threaded end of brake rod **Q** through the slot on the engine deck and attach the other end to the brake control arm **R** and secure in place with hairpin **S** as shown.



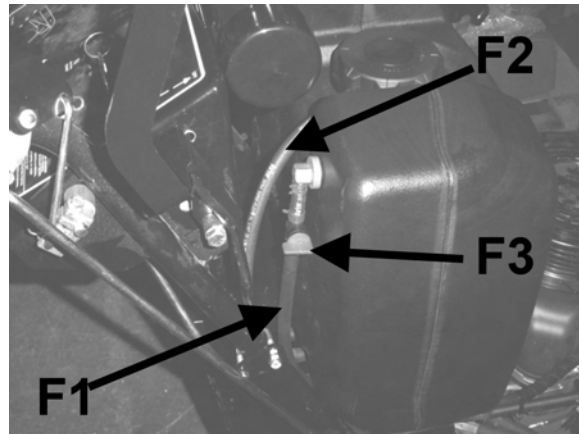
20. Connect swivel on threaded end of brake rod **Q** to the brake arm **T** and secure in place with hairpin **S** as shown. Adjust swivel to provide adequate braking when the brake control arm is engaged. See adjustment section of this manual.



21. Close bypass valve **X** by rotating clockwise until firmly seated.



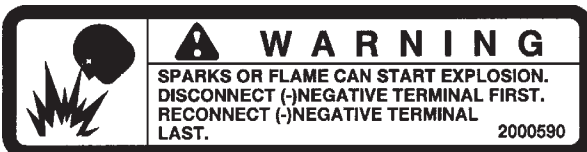
22. Install fuel line **F1** from the engine fuel filter side to the fuel pick-up fitting as shown. Ensure in-line fuel valve **F3** is open before starting. Install purge fuel line, **F2**, from engine carb purge port to vent on top the fuel tank.



**23. On Electric Start Models Only**

Batteries come with acid. Check level and charge before startup.

Remove the battery cover and the battery from the machine. Fill the battery to the bottom of the vent wells with electrolyte and trickle charge for several hours. Replace the battery in the machine and make the connections, red to positive first, then black (ground) to negative. Install battery cover and secure with previously removed nuts.



24. Fill engine with oil. (See engine manual for specifications.)

25. Fill fuel tank with clean, fresh unleaded fuel.



GASOLINE IS HIGHLY FLAMMABLE!

- Fill fuel tank with good quality, clean, regular unleaded gasoline.
- Do not use hi-test fuel.
- Do not smoke.
- Do not spill fuel.
- Fill outdoors.
- Do not overfill. Fill to 1" below bottom of filler neck to allow room for expansion.
- USE A FUNNEL TO FILL GAS TANK

26. Check oil level in hydraulic oil reservoir and adjust as necessary.

27. Adjust tire pressure in drive wheels and casters to 14 psi (1 kg/cm<sup>2</sup>).

28. Before attempting to start the mower, read and understand all sections of the Operation & Safety manual.

29. Inspect safety circuit so that works properly.

**NOTICE:** Special setup instructions.

- Before engaging the cutterdeck, run the engine for five minutes at full RPM. This is recommended for new engine installation to permit complete engine lubrication prior to load.
- Do not engage the cutterdeck at full throttle. Set the throttle half way between the highest and lowest engine speed, engage the PTO switch and increase the engine speed to full before cutting.



Do not use this machine without an approved grasscatcher, grass discharge chute or mulching plate(s) correctly fitted.

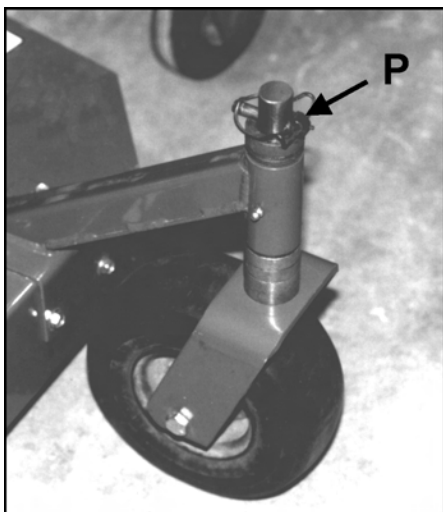
Make all adjustments with the engine shut off, spark plug wire disconnected and mower drive disengaged.

## FIXED CUTTERDECK HEIGHT OF CUT

The cutting height is determined by the position of the blades in relation to the wheels. Variation to this height may be made at THREE points. (See Height of Cut Charts below).

### 1. THE CASTER WHEELS

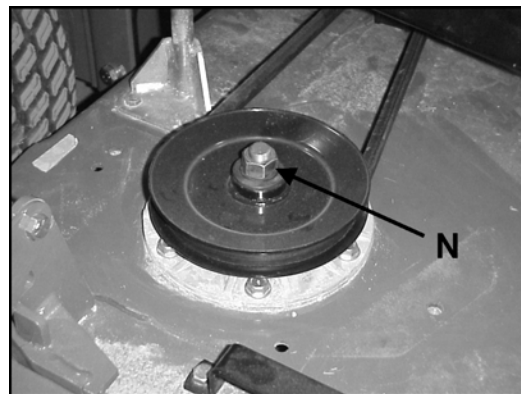
1. Remove the quick pin **P** from the top of the caster wheel pivot spindle.
2. Place required spacers above or below wheel support bracket and replace the quick pin **P**.



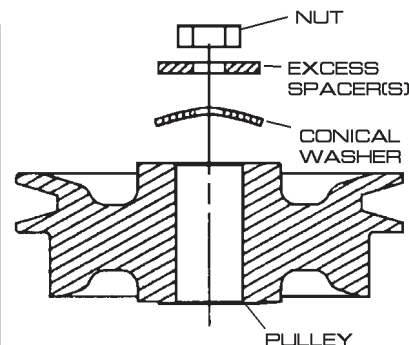
### 2. CUTTERDECK BLADE SPINDLES

**NOTE:** See MAINTENANCE section of the Setup, Parts & Maintenance manual for blade removal and replacement procedures.

1. Remove belt cover.
2. Remove nut **N** from the top of the cutter spindle bolt.
3. Withdraw the cutterdeck spindle bolt (from bottom) complete with washer, blade and spacers
4. Place the required number of spacers (no more than 2) on the cutterdeck spindle bolt below the cutterdeck, between blade and spindle shaft.
5. Fit any excess spacers on the cutterdeck spindle bolt above the deck, between the conical washer and the nut. Replace nut and tighten to 70 ft-lbs.



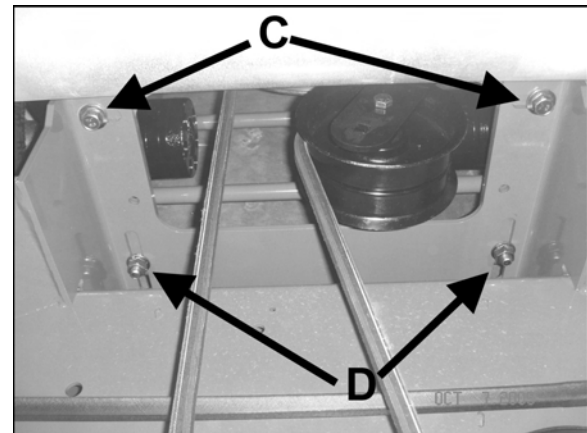
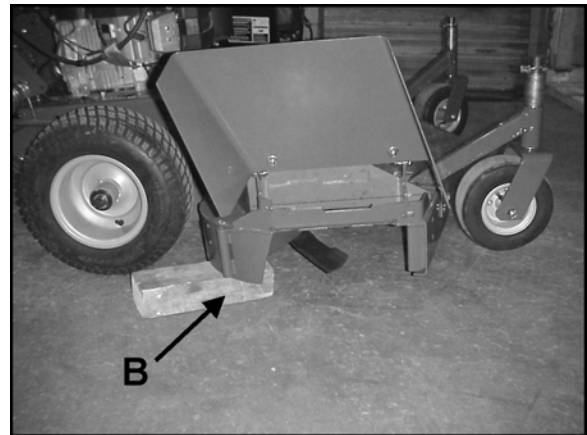
| CUTTING HEIGHT |     | A(1/8")<br>B(1/4")<br>C(1/2") |   |   | UPPER BOLT POSITION |  | NUMBER OF SPACERS BETWEEN SPINDLE AND BLADE (1/4" THICK) |  |
|----------------|-----|-------------------------------|---|---|---------------------|--|----------------------------------------------------------|--|
| IN             | MM  | A                             | B | C |                     |  |                                                          |  |
| 1.375          | 35  | 1                             | 1 | 0 | 5                   |  | 2                                                        |  |
| 1.625          | 41  | 1                             | 1 | 0 | 5                   |  | 1                                                        |  |
| 1.875          | 48  | 1                             | 1 | 0 | 5                   |  | 0                                                        |  |
| 2.125          | 54  | 1                             | 0 | 2 | 4                   |  | 2                                                        |  |
| 2.375          | 60  | 1                             | 0 | 2 | 4                   |  | 1                                                        |  |
| 2.625          | 67  | 1                             | 0 | 2 | 4                   |  | 0                                                        |  |
| 2.875          | 73  | 1                             | 1 | 3 | 3                   |  | 2                                                        |  |
| 3.125          | 79  | 1                             | 1 | 3 | 3                   |  | 1                                                        |  |
| 3.375          | 86  | 1                             | 1 | 3 | 3                   |  | 0                                                        |  |
| 3.625          | 92  | 1                             | 0 | 5 | 2                   |  | 2                                                        |  |
| 3.875          | 98  | 1                             | 0 | 5 | 2                   |  | 1                                                        |  |
| 4.125          | 105 | 1                             | 0 | 5 | 2                   |  | 0                                                        |  |
| 4.375          | 111 | 1                             | 1 | 6 | 1                   |  | 2                                                        |  |
| 4.625          | 118 | 1                             | 1 | 6 | 1                   |  | 1                                                        |  |



### SETTING CUTTERDECK HEIGHT CUTTERDECK POSITION

1. Support rear of power unit.
2. Place blocks under both outside edges of cutter-deck at **B**. See Block chart below.

| CUTTING HEIGHT                                       | HOLE POSITION ON ENGINE DECK* | BLOCK HEIGHT AT REAR OF DECK (B) |
|------------------------------------------------------|-------------------------------|----------------------------------|
| 1.375" - 1.625"                                      | 5                             | 1.25"                            |
| 1.875" - 2.375"                                      | 4                             | 2.00"                            |
| 2.625" - 3.125"                                      | 3                             | 2.75"                            |
| 3.375" - 3.875"                                      | 2                             | 3.50"                            |
| 4.125" - 4.625"                                      | 1                             | 4.25"                            |
| * Position 1 is the highest hole on the engine deck. |                               |                                  |



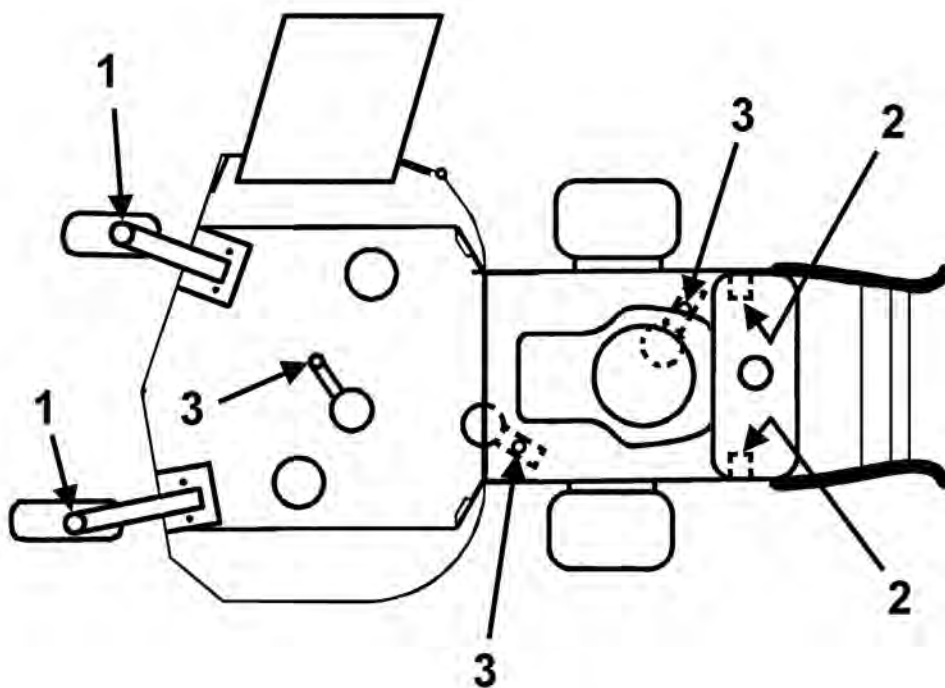
3. Remove (2) upper deck mounting bolts **C**.
4. Loosen (2) lower deck mounting bolts **D** several turns. Loosen enough to allow easy movement of the rear of cutterdeck. Allow deck to set down on blocks or if deck is being raised, allow the front casters to sit on the floor.
5. Reinstall upper deck mounting bolts **C** according to the chart for the cut height desired.
6. Tighten all bolts and reinstall belt cover.
7. Remove rear support and blocks under the deck.
8. Your side discharge mower will give you the best cut if the very tip of the front blade is 1/8" to 1/4" lower than the rear of the rear blade.

## MACHINE LUBRICATION

Every 50 Working Hours - Lubricate the following points with grease:

- 1) Caster wheel pivots (2 points)
- 2) Neutral eccentric pin (2 points)
- 3) Idler pivot bearings:
  - a) Engine to cutterdeck belt tensioner
  - b) Cutterdeck belt tensioner
  - c) Hydro drive belt tensioner

**NOTE:** The spindles used on these machines use a superior sealed bearing which does not require relubrication.



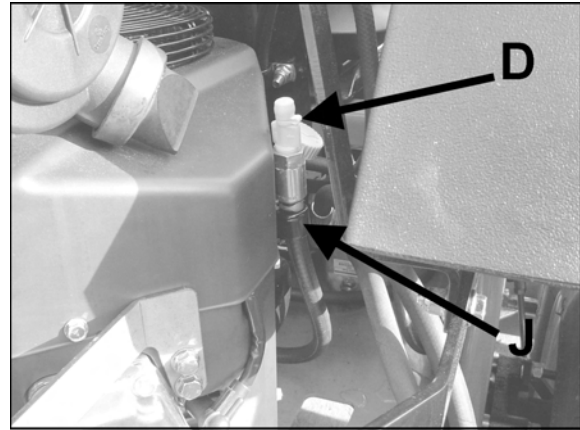
### ENGINE OIL

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 or through the frame cutout, which ever is most convenient.
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.



#### 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.

#### 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.

## ENGINE - KAWASAKI

The maintenance schedule detailed is for average operating conditions. Under extreme conditions (dusty, dirty or more than 8 hrs continuous use) maintain more frequently.

### Cooling Fins and Air Intake screen (daily)

Ensure that the cooling fins and air intake screen **W** are cleaned daily. Continued operation with a clogged cooling system will cause severe overheating and result in engine damage. You can use compressed air to clean.

### Air Cleaner

Dual element air cleaners have a paper air cleaner element **Z** with an oiled, foam precleaner element **V** on the dirty side of the paper element. Both should be inspected regularly and maintained.

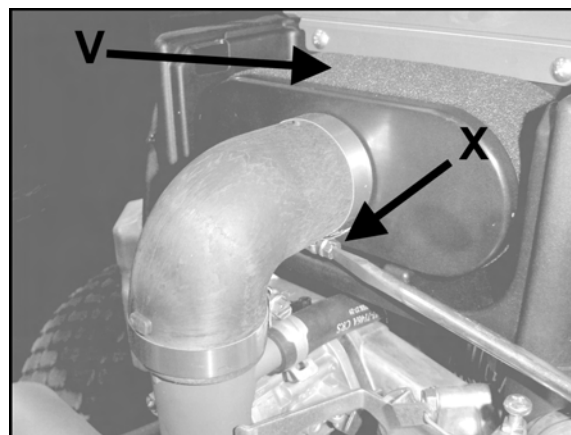
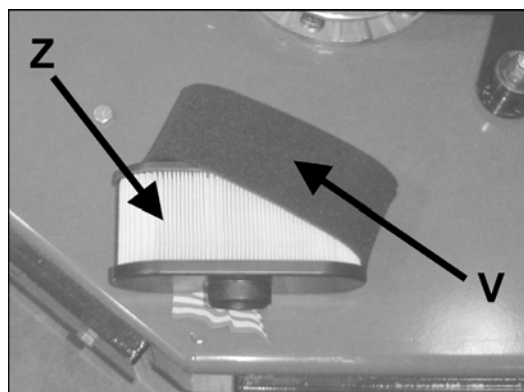
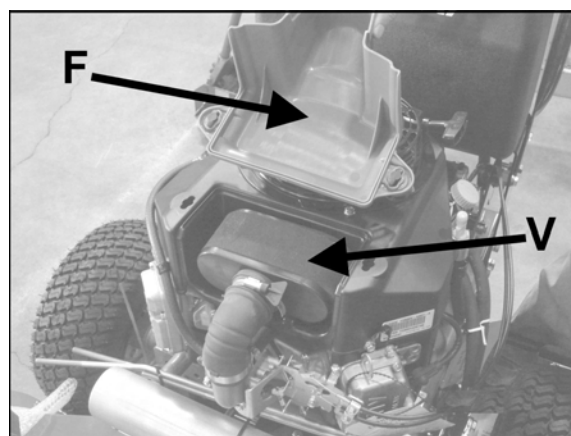
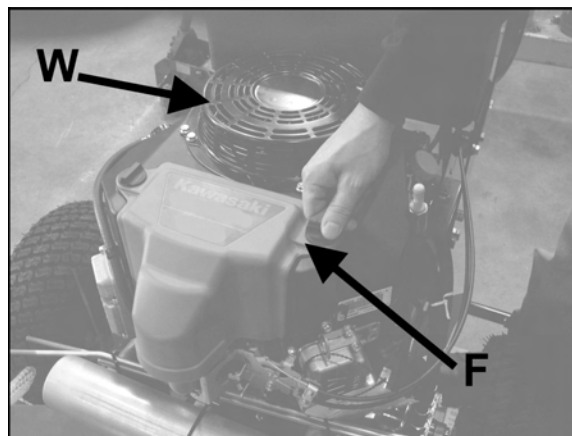
Clean and re-oil precleaner element every 25 hours (more often under dusty conditions).

1. Turn knobs 1/4 turn counter-clockwise to remove air cleaner cover **F**.
2. Loosen clamp **X** to remove air cleaner assembly.
3. Remove and wash precleaner **V** with kerosene or liquid detergent and water.
4. Wrap precleaner **V** in a cloth and squeeze to remove excess cleaning agent.
5. Saturate precleaner **V** with new engine oil and squeeze to remove excess oil.

Every 100 hours (more often under very dusty or dirty conditions), check the paper cartridge **Z**.

- Clean by tapping gently.
- Do not wash the cartridge or use compressed air
- Replace when cartridge is dirty, bent or damaged.

6. Reinstall precleaner **V** over paper cartridge **Z**, reinstall air cleaner assembly, tighten clamp **X**, and reinstall cover **F**.



### Blade Sharpening

Blades may be sharpened by filing or grinding, but with either method the balance of the blades must be maintained at 5/8 oz/in or less. Failure to maintain balance causes excess vibration, wear and shortened life of not only the blades, but most all components of the machine. To balance a blade after sharpening: attach 1/8 oz of weight 5" from center on the light end. This should make the light end the heavy end. If it does not: File or grind the heavy end until the addition of weight makes the light end the heavy end.

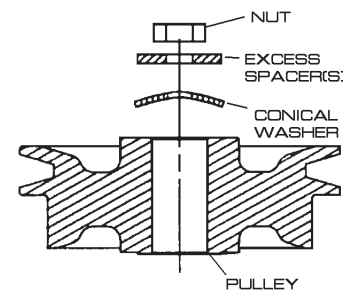
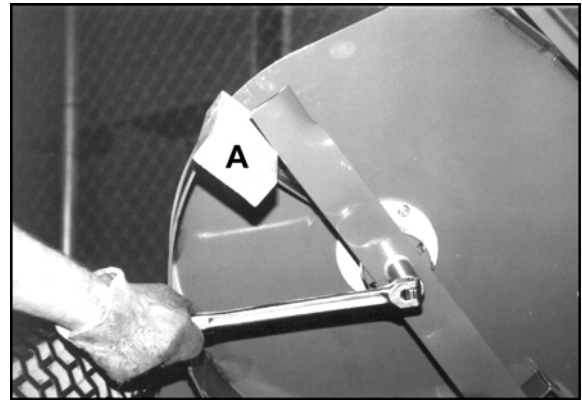
#### NOTE:

- Do not overheat or weaken the blades.
- Do not straighten bent blades. Replace with new BOB-CAT blades.  
If lift portion of blade is worn thin replace with a new BOB-CAT blade.
- ALWAYS replace with BOB-CAT blades—do not use another manufacturer's blades as this could be dangerous.
- Replace cracked or bent blades.

### BLADE REMOVAL

1. Use a box wrench or socket with a long breaker bar to remove spindle bolt under cutterdeck.
2. Slip tube over breaker bar or wrench if necessary to gain leverage.
3. Keep hands clear as blades may rotate when bolt releases.
4. When changing blades, wear thickly padded gloves.
5. Block blades from turning by using a piece of wood.
6. Follow these instructions to prevent injury when bolt releases.

**NOTE:** To prevent blade from turning, place block of wood at **A**, with grain perpendicular to blade.



**Cutterdeck Pulley Assembly**

### BLADE RE-INSTALLATION

1. Place the desired number of spacers (no more than 2) on the spindle bolt below the cutterdeck between the blade and spindle shaft.
2. Insert the cutter spindle bolt (from bottom) complete with washer, blade and spacers.
3. Place remaining spacer(s) on the spindle bolt above the cutterdeck between the conical washer and nut (as shown). Replace nut and tighten to 70 ft-lbs.

## SPARK PLUG

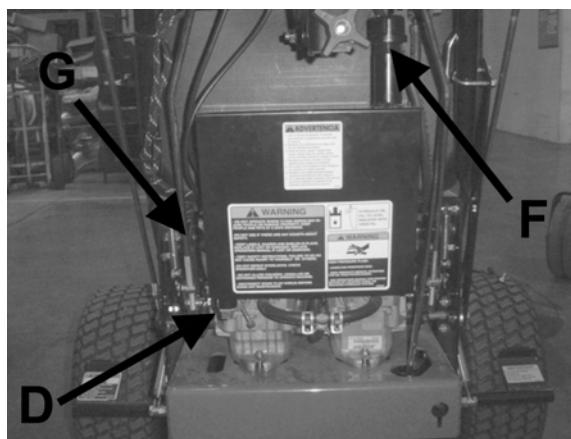
- Remove plug and check condition.
- Good operating conditions are indicated if the plug has a light grey or tan deposit. A white blistered coating may indicate overheating. A black coating usually means an “over rich” fuel mixture caused by a clogged air cleaner or improper carburetor adjustment. Do not sandblast, wire brush or otherwise try to clean a dirty plug. Best results are obtained with a new plug.
- See engine manufacturers manual for proper spark plug gap.

## HYDRAULIC RESERVOIR CHECK, DRAIN AND FILL

Check level every 100 hours or when a leak has occurred. To check level: Remove reservoir cap. Add 10W30 oil until the oil level reaches the bottom of the filler tube. Do not overfill.

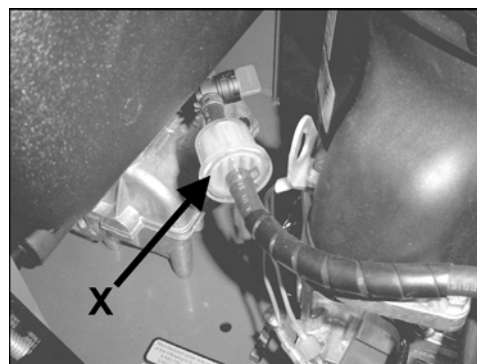
### EVERY 500 HOURS:

Change hydraulic oil and filter. Remove plug **D** to drain reservoir. Remove and replace filter. Filter is located on front of tank at **G**. Reinstall plug and fill with 10W30 oil to the bottom of the filler tube **F**.



## In-Line Fuel Filter

When required, the fuel filter **X** may be replaced. See the Setup, Parts & Maintenance manual for service part numbers.



**NOTE: CHANGE ENGINE OIL AND FILTER AFTER FIRST 5 HOURS OF OPERATION.**

| SERVICE OPERATION              | FIRST 5 HOURS                    | DAILY                             | EVERY 25 HOURS | EVERY 50 HOURS | EVERY 100 HOURS | EVERY 500 HOURS |
|--------------------------------|----------------------------------|-----------------------------------|----------------|----------------|-----------------|-----------------|
| <b>ENGINE</b>                  |                                  |                                   |                |                |                 |                 |
| Check Oil Level                |                                  | X                                 |                |                |                 |                 |
| Check for Oil & Air Leaks      |                                  | X                                 |                |                |                 |                 |
| Clean Air Intake               |                                  | X                                 |                |                |                 |                 |
| Clean Air Cleaner              |                                  | X                                 |                |                |                 |                 |
| Change Oil & Filter*           | X                                | SEE ENGINE MANUFACTURER'S MANUAL* |                |                |                 |                 |
| Clean Fuel Sediment Bowl       |                                  |                                   |                | X              |                 |                 |
| Replace/Adjust Spark Plug      | SEE ENGINE MANUFACTURER'S MANUAL |                                   |                |                |                 |                 |
| <b>HYDRAULIC OIL RESERVOIR</b> |                                  |                                   |                |                |                 |                 |
| Check Oil Level                |                                  | X                                 |                |                |                 |                 |
| Change Hydraulic Oil           |                                  |                                   |                |                |                 | X               |
| <b>MACHINE</b>                 |                                  |                                   |                |                |                 |                 |
| Check Tire Pressures           |                                  | X                                 |                |                |                 |                 |
| Lubricate All Points           |                                  |                                   |                | X              |                 |                 |

Consult the manufacturer's manual for your engine for further information and instructions.

---



---



---



---

---



---



---



---

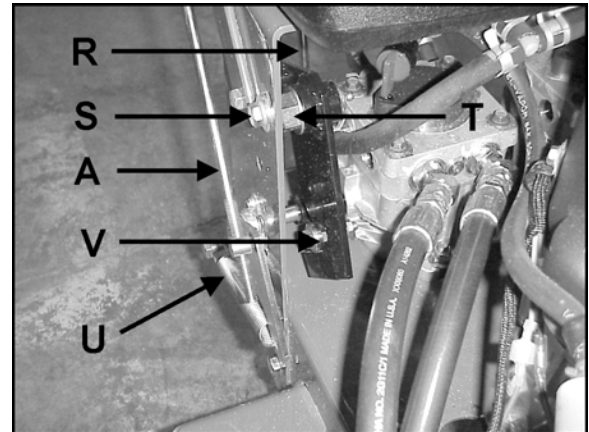
## This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

20

**TRACTION DRIVE HYDROSTAT ADJUSTMENTS:** The following adjustments must be done in order.

### STEP 1 - Set Neutral

Neutral is set at the factory. If it should require adjustment, raise the wheels off the ground by setting the machine on jackstands or blocks. Disconnect the traction control rod **A** and speed control rod **R** at each pump end. Disconnect pump arm spring **U** from bolt on engine deck. Loosen bolt **S** securing the neutral plate eccentric shaft just enough to turn the shaft. Start the engine and run at low speed. Turn eccentric shaft **T** to raise or lower the point at which the follower bearing is held in the center of the "V" until the wheels stop turning. Tighten the eccentric shaft bolt. Increase the throttle setting and check the adjustment. Readjust if necessary. Shut the engine off before proceeding to steps 2 and 3.



### STEP 2 - Adjust Speed Control Rods

First adjust neutral, as outlined in Step 1. Set speed control levers to neutral. Adjust swivels on lower ends of speed control rods **R** so they just go into the top of the slots on the neutral plates.

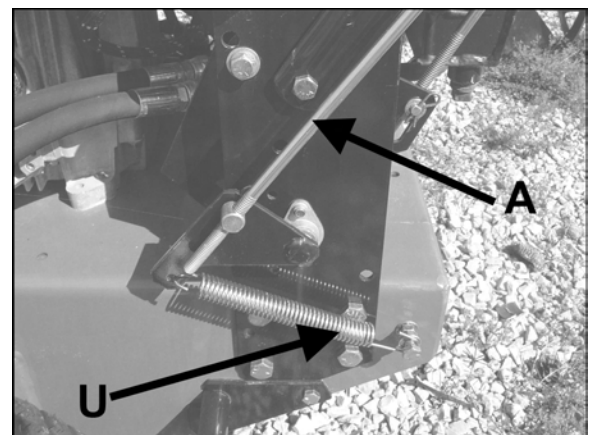
**NOTE:** If the speed control levers do not have adequate tracking adjustment, the swivel on one of the rods needs to be turned 1 turn.



### STEP 3 - Adjust Traction Levers

Set neutral and adjust speed control rods as outlined in Steps 1 and 2. Set traction locks in the neutral position. Grasp traction rod **A** and pull down on it to take out any slack. The pump control arm has some back and forth play. Adjust the swivel to the center of the control arm play. Connect the swivel to the control arm. Reattach pump arm spring **U** to bolt on engine deck.

**NOTE:** More reverse speed may be gained by adjusting the swivel to the rear of the control arm play. A minimum of 1/16" play is required so the traction controls can be put in neutral without the machine backing up.



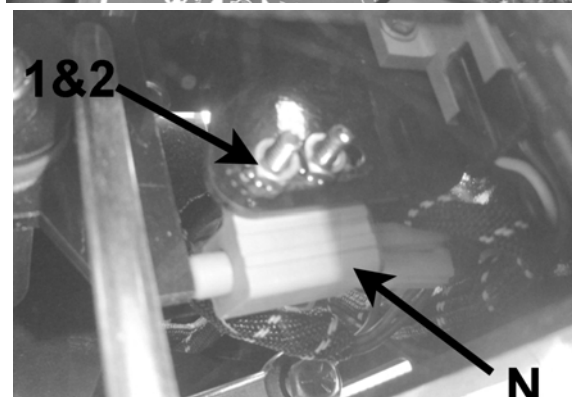
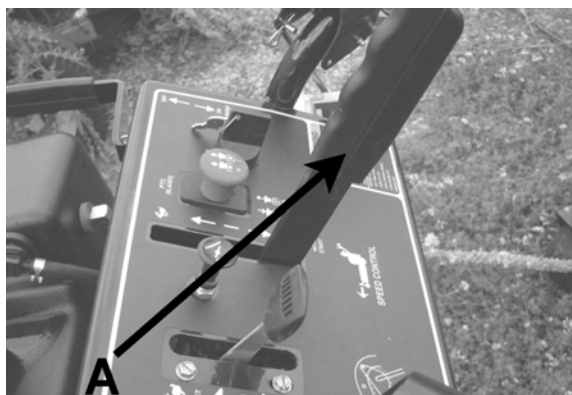
Make all adjustments with the engine shut off, spark plug wire disconnected and mower drive disengaged.

### NEUTRAL SWITCH ADJUSTMENT

The neutral switch **N** should be adjusted so that it is engaged by the speed control lever **C** when in the neutral position, and disengaged just before the wheels being to move by adjusting the speed control lever **C** from the neutral position to the forward position.

#### TO ADJUST:

1. Complete the traction drive adjustments.
2. Place the machine on jack stands or blocks such that the drive wheels are off the ground and the machine is stable.
3. Adjust the speed control lever **C** to the neutral position.
4. Adjust the neutral switch **N** to a position where it will disengage just before the wheels move by adjusting the speed control lever **C** from the neutral position to the forward position.



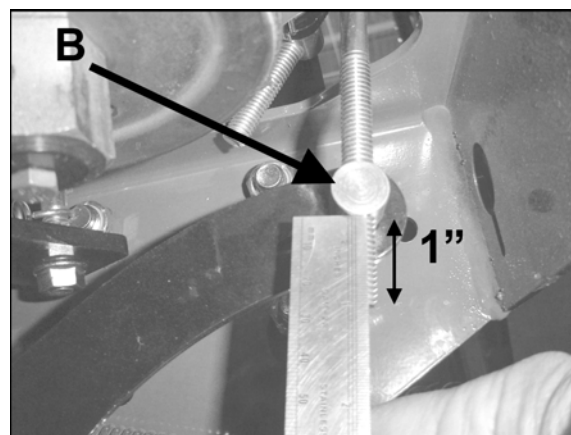
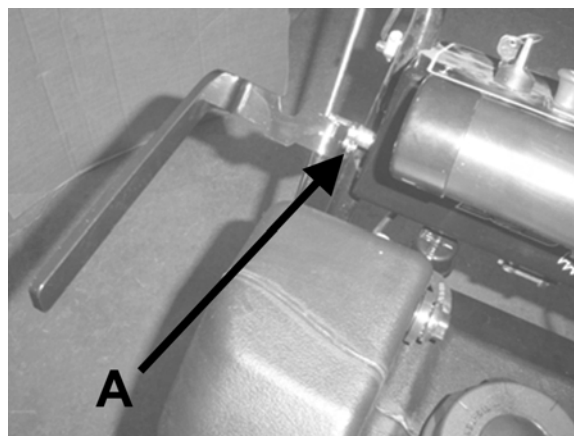
**PARKING BRAKE** - Apply parking brakes and open the bypass valves on the hydraulic pumps. Try to push the machine forward. If wheels rotate, adjust brakes as follows.

#### TO ADJUST:

1. Remove the hairpin cotter **A** from the brake rod at the brake lever as shown.
2. Slide the brake rod out of the brake lever and turn the rod in or out of the brake swivel **B** as needed.

**NOTE:** The brake should initially be adjusted so that the brake rod extends through swivel **B** 1" as shown. If more brake pressure is required adjust as necessary.

3. Reassemble brake rod to the brake lever using hairpin **A**.
4. Apply parking brakes and try to push the machine forward. If wheels rotate, readjust brakes.
5. Close bypass valves on the hydraulic pumps.

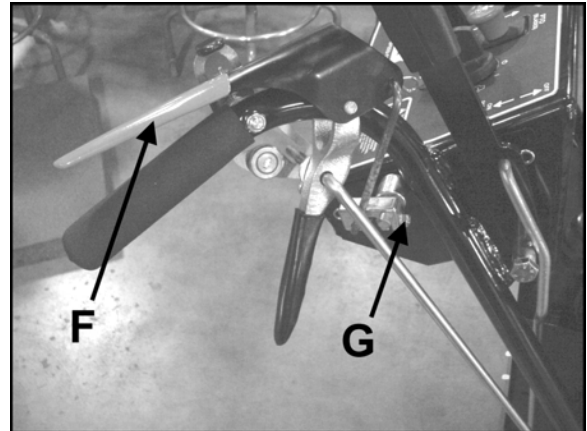


### OPERATOR PRESENT CONTROLS

The operator present (OP) controls should be adjusted to control the operation of the plunger of the operator present switch (located under the right side of the control panel). Depressing OP levers **F** should depress the plunger; releasing the levers should extend it.

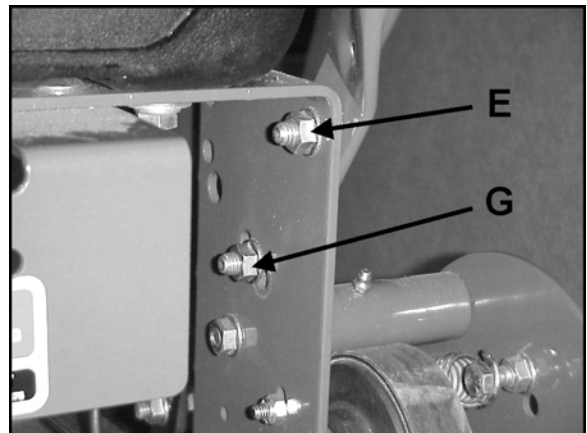
#### TO ADJUST:

1. Loosen clamp bolts **G** on both ends, so clamps can rotate on shaft.
2. Rotate actuator lever to depress switch plunger. Keep OP levers against handles and tighten bolts **G**.
3. When released, the OP levers should rise and the actuator lever should rotate away from the switch, allowing the switch plunger to extend completely.



### HANDLE BAR HEIGHT ADJUSTMENT

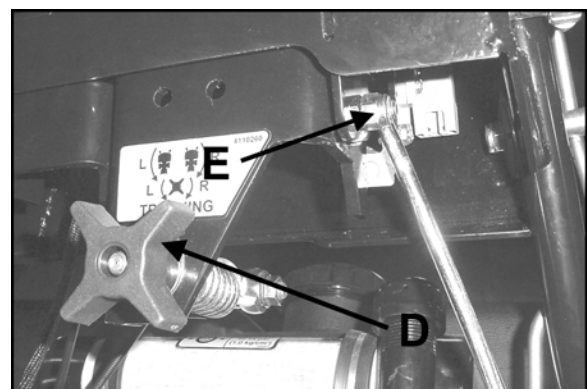
To adjust handle bar height: Remove bolts **G** and loosen bolts **E** on each side of handlebars. Raise or lower as required. Reposition upper handle and reinsert bolts **G** into appropriate hole in lower handle and tighten. Readjust traction control rods, parking brakes and speed control rods.



### Speed Control Lever Friction

The speed control lever is held where set by friction pads. If the setting will not hold, tighten nuts **E** to increase friction on the speed control lever.

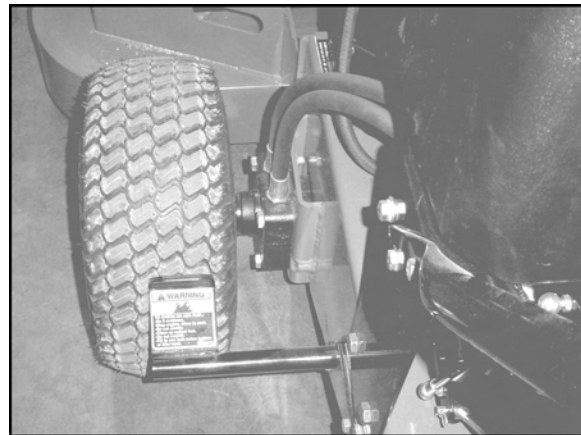
Adjust Knob **D** to get machine to track in a straight line.



### TRACK WIDTH ADJUSTMENT

The track width originally set from the factory can be increased an additional 3-1/4" overall by performing the following steps.

1. Loosen wheel lug nuts on both drive tires.
2. Raise rear of unit so that drive tires are off the ground. Support the unit with jack stands.
3. Remove wheel lug nuts and wheels. Reattach wheels with the tires rotated so the wheel offset is the opposite of when they were previously installed. Reinstall and tighten lug nuts until they are snug.
4. Lower machine off of the jack stands and torque wheel lug nuts to 85 ft-lbs.



### TIRE PRESSURE ADJUSTMENT

Tire pressures should be maintained at 14 psi (1.0 kg/cm<sup>2</sup>).



### PTO BELT

1. Rotate idler arm using a 3/8" ratchet or breaker bar and remove belt.



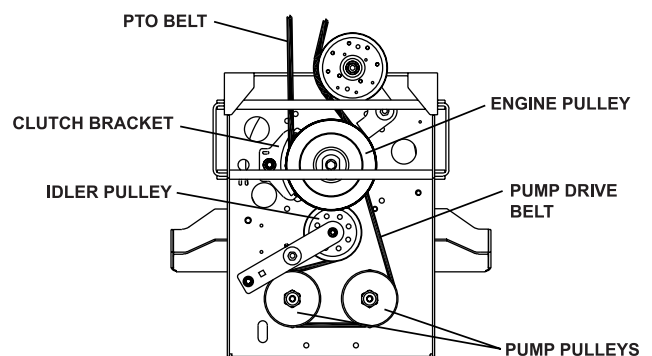
### CUTTERDECK BELT

1. Remove PTO belt.
2. Rotate idler arm using a 3/8" ratchet or breaker bar and remove belt.
3. Replace in the reverse order.



### PUMP-DRIVE BELT

1. Remove PTO belt from the engine clutch.
2. Disconnect the clutch wire harness.
3. Unbolt clutch bracket from clutch and rotate the clutch to allow enough clearance to remove the clutch bracket.
4. Rotate idler arm using a 3/8" ratchet or breaker bar inserted into the square hole in the idler arm.
5. Remove pump drive belt.
6. Replace by following steps in reverse order.



View under engine deck

**THIS PAGE  
INTENTIONALLY LEFT  
BLANK**

# **PARTS SECTION**

---

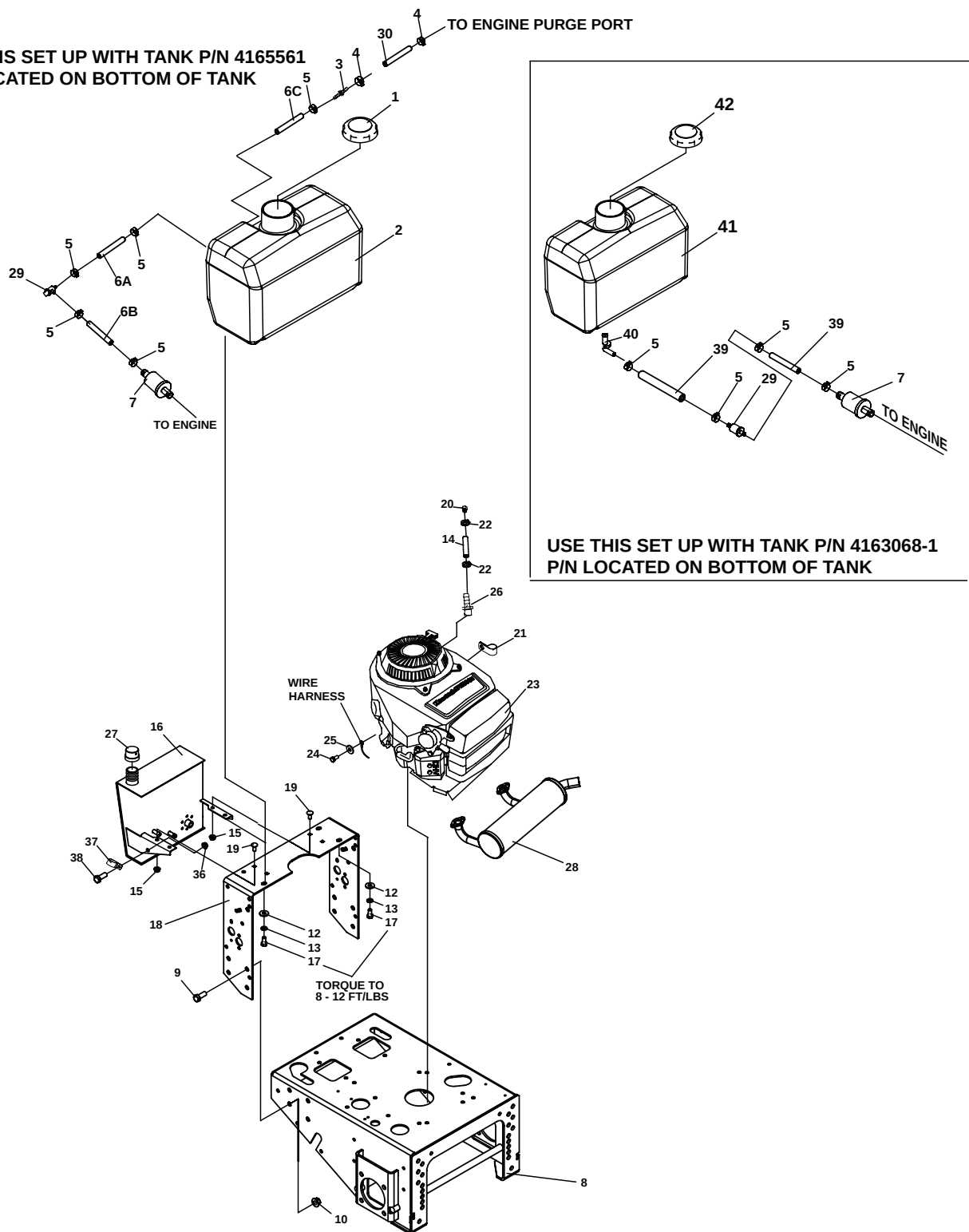
---

---

---

## Midsize

**USE THIS SET UP WITH TANK P/N 4165561  
P/N LOCATED ON BOTTOM OF TANK**



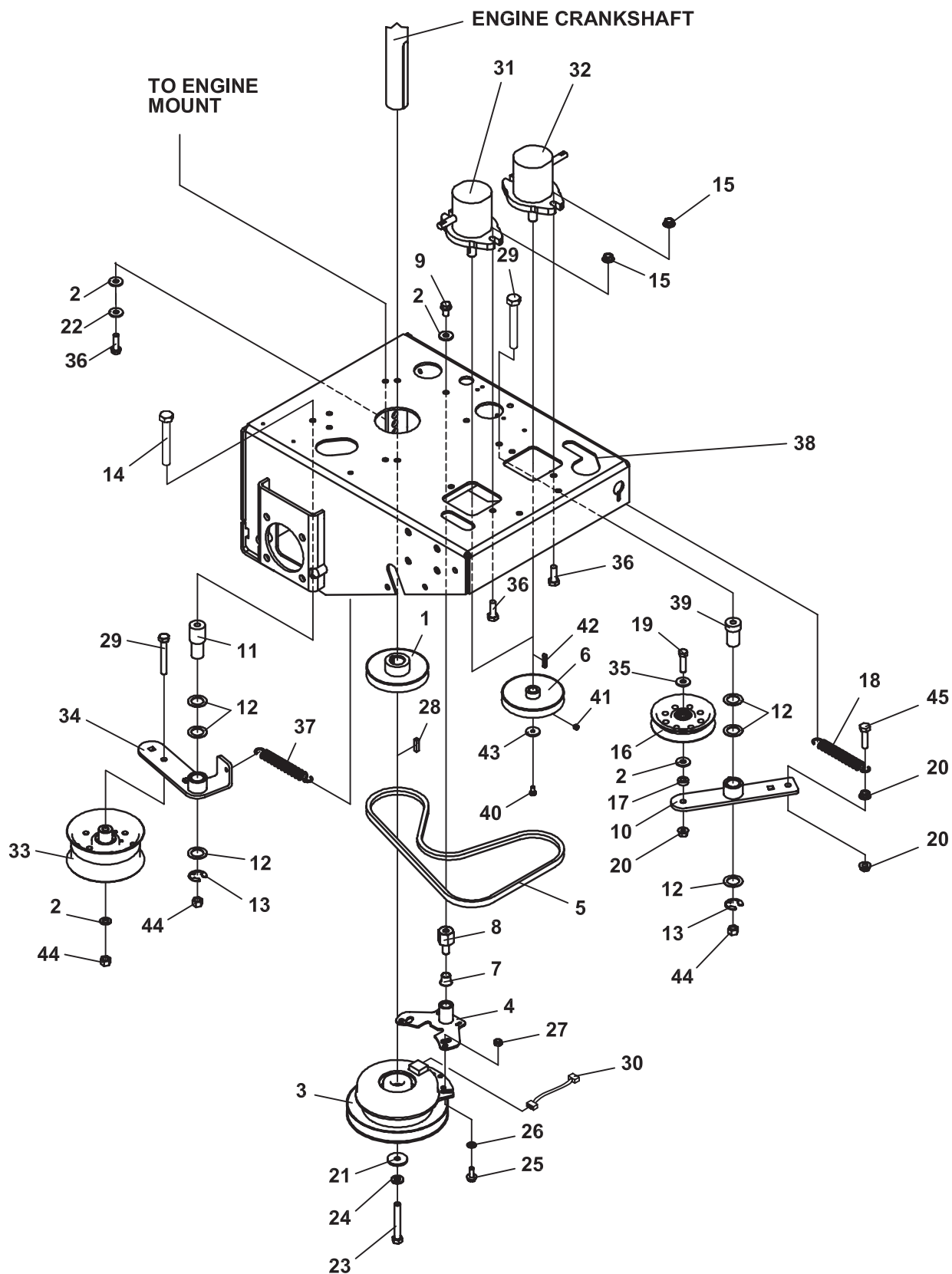
# Hydro Midsize

## UPPER ENGINE DECK ASSY

FIGURE 1

| ITEM | PART NO.        | DESCRIPTION               | QTY | ITEM                                                                              | PART NO.            | DESCRIPTION           | QTY |
|------|-----------------|---------------------------|-----|-----------------------------------------------------------------------------------|---------------------|-----------------------|-----|
| 1    | 4165291         | CAP-FUEL GASOLINE 3.5     | 1   | 36                                                                                | 64141-6             | NUT-WLF 5/16-18       | 1   |
| 2^   | 4165561         | TANK-FUEL                 | 1   | 37                                                                                | 48228-12            | CLIP-CABLE, ISULATED  | 1   |
| 3    | 4165864         | VALVE-INLINE FUEL         | 1   | 38                                                                                | 64123-54            | BLT-HEX 5/16-18X3/4   | 1   |
| 4    | 88042-1         | CLAMP-HOSE 3/16           | 2   | <b>ITEMS 39-40 ARE USED WITH GAS TANK P/N 4163068-1</b>                           |                     |                       |     |
| 5    | 88042N          | HOSE CLAMP                | A/R | 39                                                                                | 4162977-007         | S HOSE-FUEL LINE 8"   | 2   |
| 6    | 4162977-001     | HOSE,FUEL LINE 56"        | 1   | 40                                                                                | 4163012             | FITTING-90° FACE SEAL | 1   |
|      | 6A CUT TO 2"    |                           |     | 41^                                                                               | 4163068-1           | TANK-FUEL             | 1   |
|      | 6B CUT TO 18.5" |                           |     |                                                                                   | (INCLUDES ITEMS 40) |                       |     |
|      | 6C CUT TO 36.5" |                           |     | 42                                                                                | 4130320             | CAP-FUEL GASOLINE 3.5 | 1   |
| 7    | 4168368         | FILTER, FUEL              | 1   | <b>^GAS TANK P/N IS LOCATED ON THE BOTTOM OF THE GAS TANK ONCE IT IS REMOVED.</b> |                     |                       |     |
| 8    | 4131068.2       | DECK-ENGINE HYDRO         | 1   | <b>*NOT ILLUSTRATED</b>                                                           |                     |                       |     |
| 9    | 64123-39        | BOLT-HEX 1/2-13X1-1/4     | 8   |                                                                                   |                     |                       |     |
| 10   | 64229-05        | LOCKNUT, 1/2-13 NYLON     | 8   |                                                                                   |                     |                       |     |
| 11   | 2306144         | S DOCU TUBE W/LAB         | 1   |                                                                                   |                     |                       |     |
| 12   | 64163-31        | WASHER                    | 4   |                                                                                   |                     |                       |     |
| 13   | 64006-03        | LOCKWSHR-HELICAL 3/8      | 4   |                                                                                   |                     |                       |     |
| 14   | 69053-03        | HOSE-HYDR 3/8X17"         | 1   |                                                                                   |                     |                       |     |
| 15   | 64229-02        | LOCKNUT-NYLON 5/16-18     | 4   |                                                                                   |                     |                       |     |
| 16   | 2306127         | S-HYD RESEVOIR W/LABS     | 1   |                                                                                   |                     |                       |     |
| 17   | 64123-15        | BLT-HEX 3/8-16X3/4        | 4   |                                                                                   |                     |                       |     |
| 18   | 4164391.7       | HANDLE-LOWER P-GRIP       | 1   |                                                                                   |                     |                       |     |
| 19   | 64018-9         | BLT-CRG 5/16-18 X 3/4     | 4   |                                                                                   |                     |                       |     |
| 20   | 4164251         | VALVE-OIL DRAIN           | 1   |                                                                                   |                     |                       |     |
| 21   | 48412           | CLIP-J CABLE 5/8X8.74     | 1   |                                                                                   |                     |                       |     |
| 22   | 88042-03        | CLAMP--HOSE               | 2   |                                                                                   |                     |                       |     |
| 23   | 4164361         | ENG- KAW FS481V           | 1   |                                                                                   |                     |                       |     |
|      | 4164362         | ENG- KAW FS541V           | 1   |                                                                                   |                     |                       |     |
|      | 4164363         | ENG- KAW FS600V           | 1   |                                                                                   |                     |                       |     |
|      | 4164382         | ENG- KAW FS541V ES        | 1   |                                                                                   |                     |                       |     |
|      | 4164383         | ENG- KAW FS600V ES        | 1   |                                                                                   |                     |                       |     |
|      | 4164537         | FILTER-OIL KAW 49065-7007 |     |                                                                                   |                     |                       |     |
|      | 4164535         | FILTER-AIR ELEMENT        |     |                                                                                   |                     |                       |     |
|      | 4164586         | FILTER-PRE ELEMENT        |     |                                                                                   |                     |                       |     |
| 24   | 64205-018       | BLT MET M8-1.25X15        | 1   |                                                                                   |                     |                       |     |
| 25   | 64002-04        | LOCKWASHER, EXT. 5/16     | 1   |                                                                                   |                     |                       |     |
| 26   | 4164252-01      | FITTING-3/8NPT-3/8 BARB   | 1   |                                                                                   |                     |                       |     |
| 27   | 69216.7         | CAP-RESERVOIR             | 1   |                                                                                   |                     |                       |     |
| 28   | 4164359         | MUFFLER-MIDSIZE FS600     | 1   |                                                                                   |                     |                       |     |
| 29   | 4163016         | VALVE-FUEL                | 1   |                                                                                   |                     |                       |     |
| 30   | 4162989-001     | HOSE-FUEL                 | 1   |                                                                                   |                     |                       |     |
| 31*  | 4132325         | GROMMET-FUEL TANK         | 1   |                                                                                   |                     |                       |     |
| 32*  | 4165387         | GROMMET-ROLLOVER VNT      | 1   |                                                                                   |                     |                       |     |
| 33*  | 4165763         | VENT-FUEL TANK            | 1   |                                                                                   |                     |                       |     |
| 34*  | 4165668         | FILTER-FUEL IN TANK       | 1   |                                                                                   |                     |                       |     |
| 35*  | 4165667         | FITTING-BARB              | 1   |                                                                                   |                     |                       |     |

FIGURE 2



# Hydro Midsize

## LOWER ENGINE DECK ASSY/CLUTCH

FIGURE 2

| ITEM | PART NO.  | DESCRIPTION                           | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|-----------|---------------------------------------|-----|------|----------|-------------|-----|
| 1    | 2721647   | PULLEY-4.50E.O.D.                     | 1   |      |          |             |     |
| 2    | 64163-31  | WASHER, 25/64 X 1 X 12                | 9   |      |          |             |     |
| 3    | 2721110   | CLUTCH-ELECTRIC<br>(INCLUDES ITEM 30) | 1   |      |          |             |     |
| 4    | 2721331.7 | WLDMT-CLUTCH STOP MID                 | 1   |      |          |             |     |
| 5    | 2721642   | BELT-HA 49.0                          | 1   |      |          |             |     |
| 6    | 2722244   | PULLEY- A SECTION 4.50                | 2   |      |          |             |     |
| 7    | 38304-03  | BRG-FLANGED PLASTIC                   | 1   |      |          |             |     |
| 8    | 4121540   | PIN-CLUTCH                            | 1   |      |          |             |     |
| 9    | 64123-15  | BOLT-3/8-16X3/4 HEX                   | 1   |      |          |             |     |
| 10   | 2721641.7 | WLDMT-IDLER ARM                       | 1   |      |          |             |     |
| 11   | 4116712   | PIN-PIVOT                             | 1   |      |          |             |     |
| 12   | 64163-65  | WASHER 0.890 X 1.375                  | 6   |      |          |             |     |
| 13   | 64221-04  | E-RING.875                            | 2   |      |          |             |     |
| 14   | 64123-138 | BLT-HEX 3/8-16X3-3/4                  | 1   |      |          |             |     |
| 15   | 64268-03  | NUT-FL NYL LOCK 3/8-16                | 4   |      |          |             |     |
| 16   | 2308000   | PULLEY-IDLER 4.00 EOD                 | 1   |      |          |             |     |
| 17   | 33148-01  | SPACER                                | 1   |      |          |             |     |
| 18   | 38219     | SPRING-TENSION                        | 1   |      |          |             |     |
| 19   | 64123-87  | BLT-HEX 3/8-16 X 1-3/4                | 1   |      |          |             |     |
| 20   | 64141-4   | NUT-WLF 3/8-16                        | 3   |      |          |             |     |
| 21   | 64163-51  | WSHR.453 X 1.38 X 7GA                 | 1   |      |          |             |     |
| 22   | 64006-03  | WASHER-LOCK                           | 4   |      |          |             |     |
| 23   | 64123-155 | BLT-HEX 7/16-20 X 3                   | 1   |      |          |             |     |
| 24   | 64006-06  | LOCKWSHR-HELICAL 7/1                  | 1   |      |          |             |     |
| 25   | 64123-54  | BOLT, 5/16-18X3/4 HEX                 | 2   |      |          |             |     |
| 26   | 64163-55  | WASHER .328X.75X14 GA                 | 4   |      |          |             |     |
| 27   | 64229-02  | LOCKNUT-NYLON 5/16-18                 | 2   |      |          |             |     |
| 28   | 64164-12  | 1/4X1/4X1 SQ END KEY                  | 1   |      |          |             |     |
| 29   | 64123-75  | BOLT, 3/8-16X3 HEX                    | 2   |      |          |             |     |
| 30   | 2720949   | ASSY-CLUTCH WIRE                      | 1   |      |          |             |     |
| 31   | 4163316   | PUMP-HYDRO LH                         | 1   |      |          |             |     |
| 32   | 4163317   | PUMP-HYDRO RH                         | 1   |      |          |             |     |
| 33   | 2721541   | PULLEY-IDLER 5 IN                     | 1   |      |          |             |     |
| 34   | 2721401.7 | WLDMT-IDLER ARM                       | 1   |      |          |             |     |
| 35   | 64163-61  | WSHR .81X.406X16GA                    | 1   |      |          |             |     |
| 36   | 64123-16  | BLT-HEX 3/8-16X1-1/4                  | 8   |      |          |             |     |
| 37   | 2188131   | SPRING-EXTENSION                      | 1   |      |          |             |     |
| 38   | 4131068.2 | DECK-ENGINE HYDRO                     | 1   |      |          |             |     |
| 39   | 4116691   | PIN-PIVOT                             | 1   |      |          |             |     |
| 40   | 64205-013 | BLT-MET M6-1 X 12                     | 2   |      |          |             |     |
| 41   | 64044-6   | SCREW-SET 5/16-18X1/4                 | 4   |      |          |             |     |
| 42   | 64238-03  | KEY-MET 5MM SQ X 28                   | 2   |      |          |             |     |
| 43   | 64209-09  | WASHER-CONICAL SPRING                 | 2   |      |          |             |     |
| 44   | 64229-03  | LOCKNUT-NYLON 3/8-16                  | 3   |      |          |             |     |
| 45   | 64123-70  | BOLT-HEX 3/8-16X1-1/2                 | 1   |      |          |             |     |

FIGURE 3

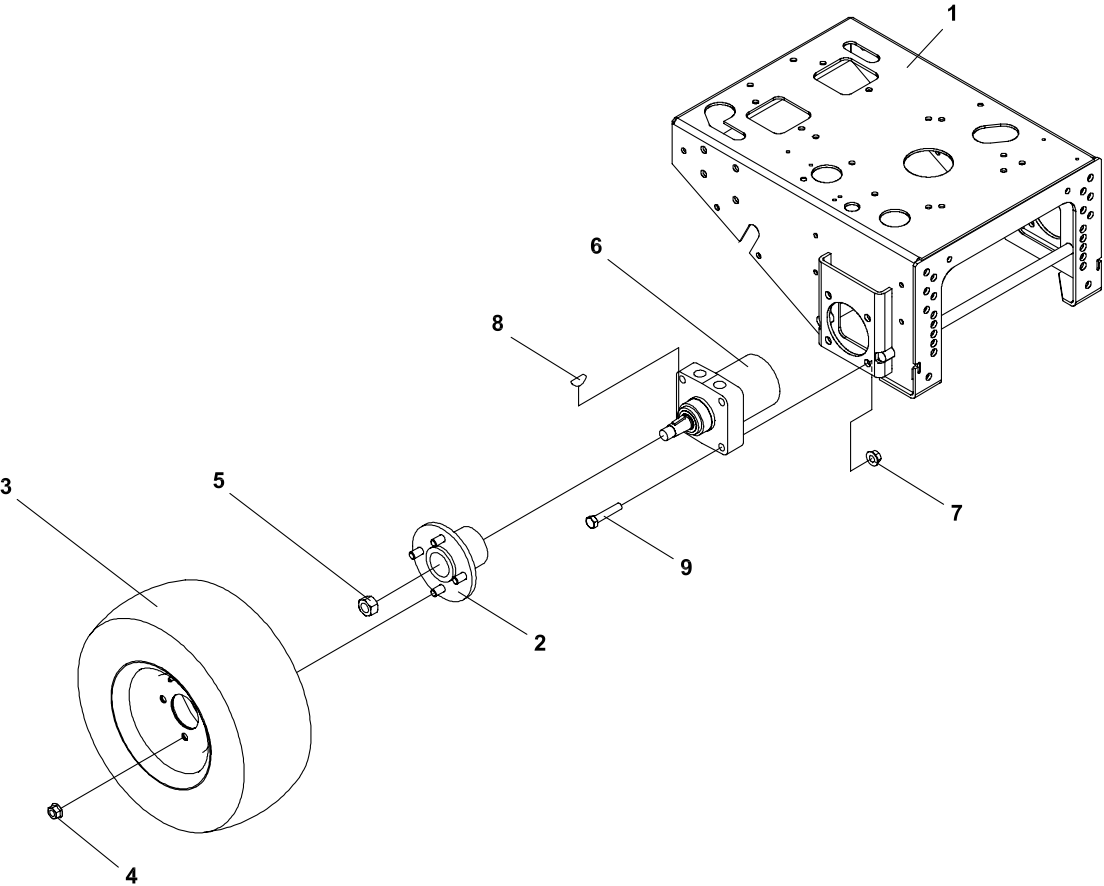


FIGURE 3

| ITEM | PART NO.   | DESCRIPTION               | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|------------|---------------------------|-----|------|----------|-------------|-----|
| 1    | 4131068.2  | DECK-ENGINE HYDRO         | 1   |      |          |             |     |
| 2    | 2721620    | WLDMT-HUB                 | 2   |      |          |             |     |
| 3    | 2721956    | ASSY-WHEEL 16 X 7.50 X 8  | 2   |      |          |             |     |
|      | 2721956-01 | TIRE-16X7.50 X 8 MLTI TRC | 1   |      |          |             |     |
|      | 2721956-02 | WHEEL W/ DUAL VALVES      | 1   |      |          |             |     |
| 4    | 64267-01   | NUT-HEX FLANGED 1/2-20    | 8   |      |          |             |     |
| 5    | 64025-06   | NUT-HEX 3/4-16 2A         | 2   |      |          |             |     |
| 6    | 2308051    | MOTOR-WHEEL ROSS MF       | 2   |      |          |             |     |
| 7    | 64141-13   | NUT WLF 1/2-13            | 8   |      |          |             |     |
| 8    | 64164-28   | #808 WOODRUFF KEY         | 2   |      |          |             |     |
| 9    | 64123-72   | BLT-HEX 1/2-13X2-1/2      | 8   |      |          |             |     |

FIGURE 4

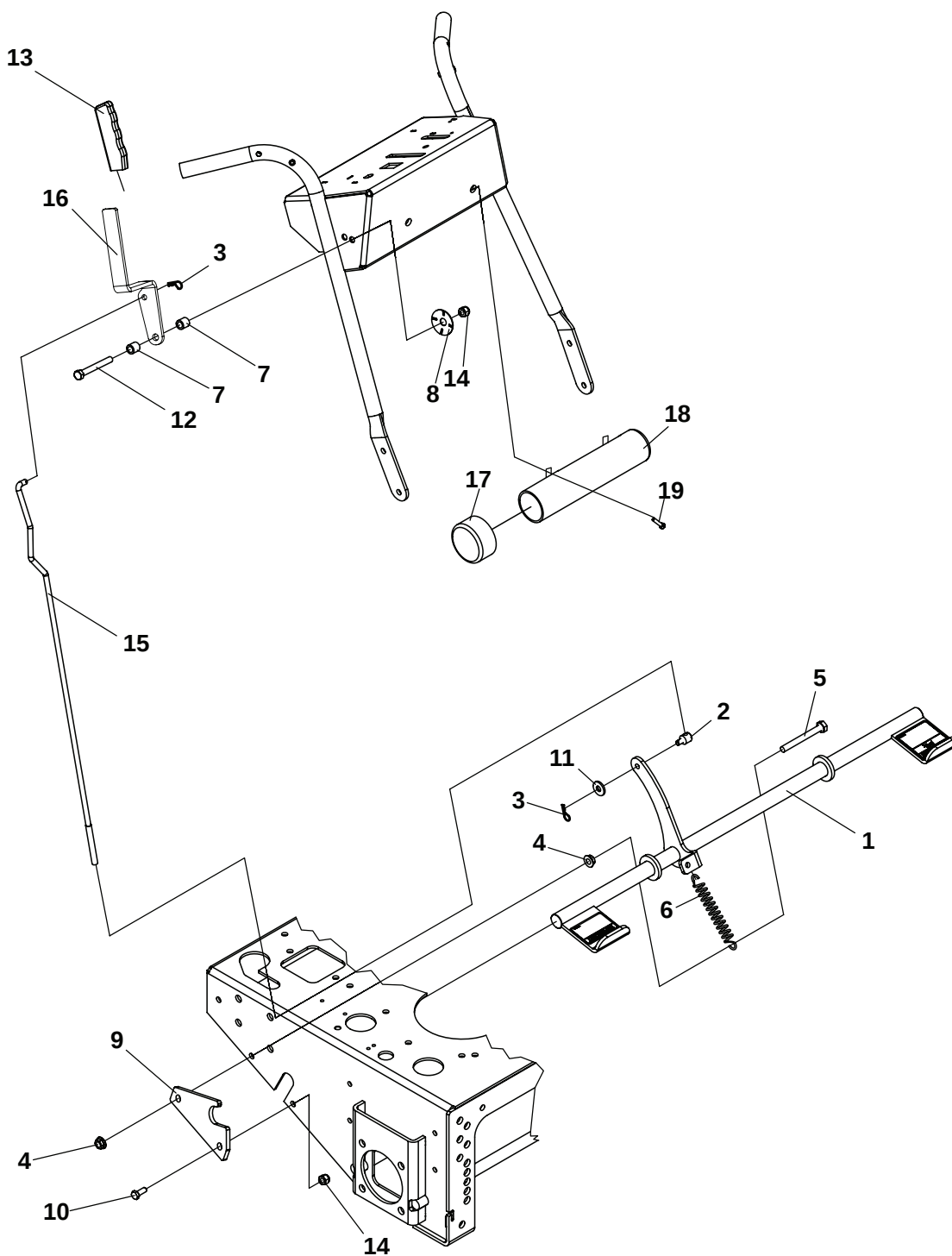


FIGURE 4

| ITEM | PART NO.   | DESCRIPTION             | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|------------|-------------------------|-----|------|----------|-------------|-----|
| 1    | 4131746    | BRAKE SHAFT W/LABS      | 1   |      |          |             |     |
| 2    | 33103      | SWIVEL                  | 1   |      |          |             |     |
| 3    | 64168-2    | COTTER-HAIRPIN.08X1.19  | 2   |      |          |             |     |
| 4    | 64001-6    | NUT-HEX JAM,3/8-16      | 2   |      |          |             |     |
| 5    | 64123-138  | BLT-HEX 3/8-16X3-3/4    | 1   |      |          |             |     |
| 6    | 2188131    | SPRING-EXTENSION        | 1   |      |          |             |     |
| 7    | 2183071-01 | SPACER-15.88X10.32X16   | 2   |      |          |             |     |
| 8    | 64171-2    | WAVE WASHER             | 1   |      |          |             |     |
| 9    | 4131072.7  | PLATE-BRK SHFT RETNR    | 2   |      |          |             |     |
| 10   | 64123-50   | BOLT-HEX 3/8-16X1       | 3   |      |          |             |     |
| 11   | 64163-02   | WSHR-.325 X .596 X 11GA | 1   |      |          |             |     |
| 12   | 64123-82   | BOLT-HEX 3/8-16X2-1/2   | 1   |      |          |             |     |
| 13   | 38404-01   | GRIP-CONTROL LEVER      | 1   |      |          |             |     |
| 14   | 64229-03   | LOCKNUT-NYLON 3/8-16    | 5   |      |          |             |     |
| 15   | 4132134    | ROD-PARK BRAKE          | 1   |      |          |             |     |
| 16   | 4166033.7  | LEVER-BRAKE             | 1   |      |          |             |     |
| 17   | 38061A     | CAP-DOCUMENT TUBE       | 1   |      |          |             |     |
| 18   | 4129802    | TUBE-DOCUMENT           | 1   |      |          |             |     |
| 19   | 64152-27   | SCREW-1/4-20X5/8 SP LG  | 2   |      |          |             |     |

# RECOIL START UPPER HANDLE

Hydro  
Midsize

FIGURE 5

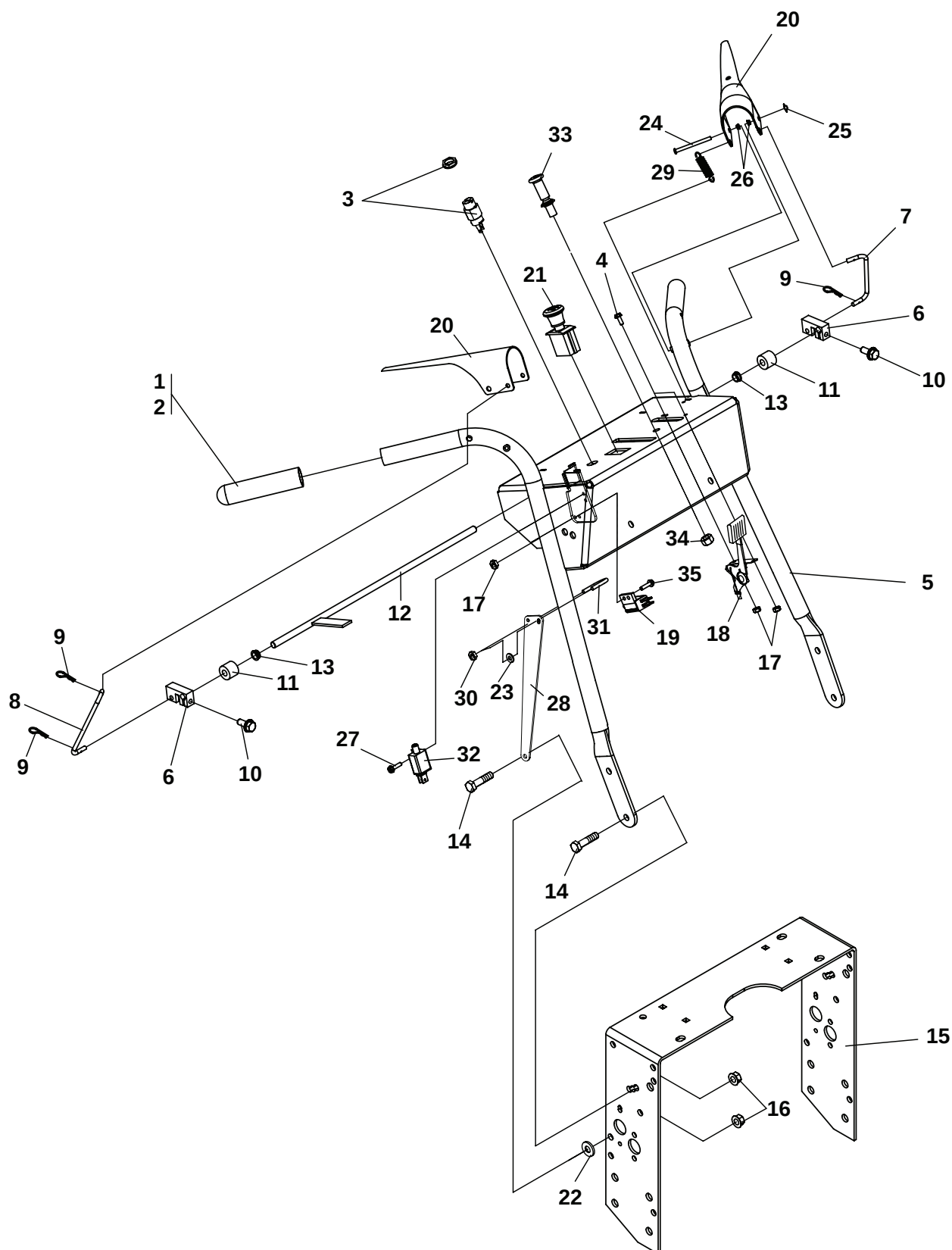


FIGURE 5

| ITEM | PART NO.  | DESCRIPTION                                    | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|-----------|------------------------------------------------|-----|------|----------|-------------|-----|
| 1    | PL5029    | GRIP-HANDLE                                    | 2   |      |          |             |     |
| 2 *  | 2308121   | ADHESIVE-3 GRAM TUBE<br>(USE WITH PL5029 GRIP) | 1   |      |          |             |     |
| 3    | 38148     | SWITCH-ENGINE STOP                             | 1   |      |          |             |     |
| 4    | 64152-46  | SCR-SLT HH 10-24X1/2                           | 2   |      |          |             |     |
| 5    | 4166101   | S UPR HNDL HYD W/CHK                           | 1   |      |          |             |     |
| 6    | 2303023   | CONNECTOR-OP                                   | 2   |      |          |             |     |
| 7    | 4122104   | ROD-HANDLE LINK, LH                            | 1   |      |          |             |     |
| 8    | 4122107   | ROD-HANDLE LINK, RH                            | 1   |      |          |             |     |
| 9    | 64168-2   | COTTER-HAIRPIN.08X1.19                         | 4   |      |          |             |     |
| 10   | 64197-002 | BLT-TDFM 1/4-20X3/4                            | 2   |      |          |             |     |
| 11   | 33030-09  | IDLER-BUSHING                                  | 2   |      |          |             |     |
| 12   | 4122056   | WLDMT-OP PRESENCE                              | 1   |      |          |             |     |
| 13   | 38371-01  | BRG-NYLINER 3/8                                | 2   |      |          |             |     |
| 14   | 64123-50  | BOLT-HEX 3/8-16X1                              | 4   |      |          |             |     |
| 15   | 4164391.7 | HANDLE-LOWER P-GRIP                            | 1   |      |          |             |     |
| 16   | 64141-4   | NUT-WLF 3/8-16                                 | 4   |      |          |             |     |
| 17   | 64025-15  | NUT-HEX #10-24 KEPS                            | 4   |      |          |             |     |
| 18   | 38357-09  | CONTROL-THROTTLE                               | 1   |      |          |             |     |
| 19   | 38383     | SWITCH-N.C.                                    | 2   |      |          |             |     |
| 20   | 2302152.7 | HNDL-OP PRESENT                                | 2   |      |          |             |     |
| 21   | 2721505   | SWITCH-PTO                                     | 1   |      |          |             |     |
| 22   | 64163-83  | WASHER-.406 X 1.00 X.25                        | 2   |      |          |             |     |
| 23   | 64163-03  | WSHR-.256IDX.62ODX18GA                         | 2   |      |          |             |     |
| 24   | 64188-44  | PIN-CLEVIS 3/16 X 2.25                         | 2   |      |          |             |     |
| 25   | 64175-01  | PUSHNUT-3/16 ROD                               | 2   |      |          |             |     |
| 26   | 38371-03  | BRG-NYLINER 3/16                               | 4   |      |          |             |     |
| 27   | 64197-015 | BLT-TDFM 10-32X1/2                             | 2   |      |          |             |     |
| 28   | 4166096.7 | BRACE-HANDLE                                   | 2   |      |          |             |     |
| 29   | 2308065   | SPRING-TENSION                                 | 2   |      |          |             |     |
| 30   | 64229-01  | LOCKNUT-NYLON 1/4-20                           | 4   |      |          |             |     |
| 31   | 64225-03  | U-BOLT                                         | 2   |      |          |             |     |
| 32   | 108208    | SWITCH DBL POLE NC/NO                          | 1   |      |          |             |     |
| 33   | 108009-03 | CONTROL CHOKE 51"                              | 1   |      |          |             |     |
| 34   | 64025-04  | NUT-HEX 3/8-24                                 | 1   |      |          |             |     |
| 35   | 64152-49  | SCRW-SLT HH #10-24X3/4                         | 2   |      |          |             |     |

\* NOT ILLUSTRATED

# ELECTRIC START UPPER HANDLE

Hydro  
Midsize

FIGURE 6

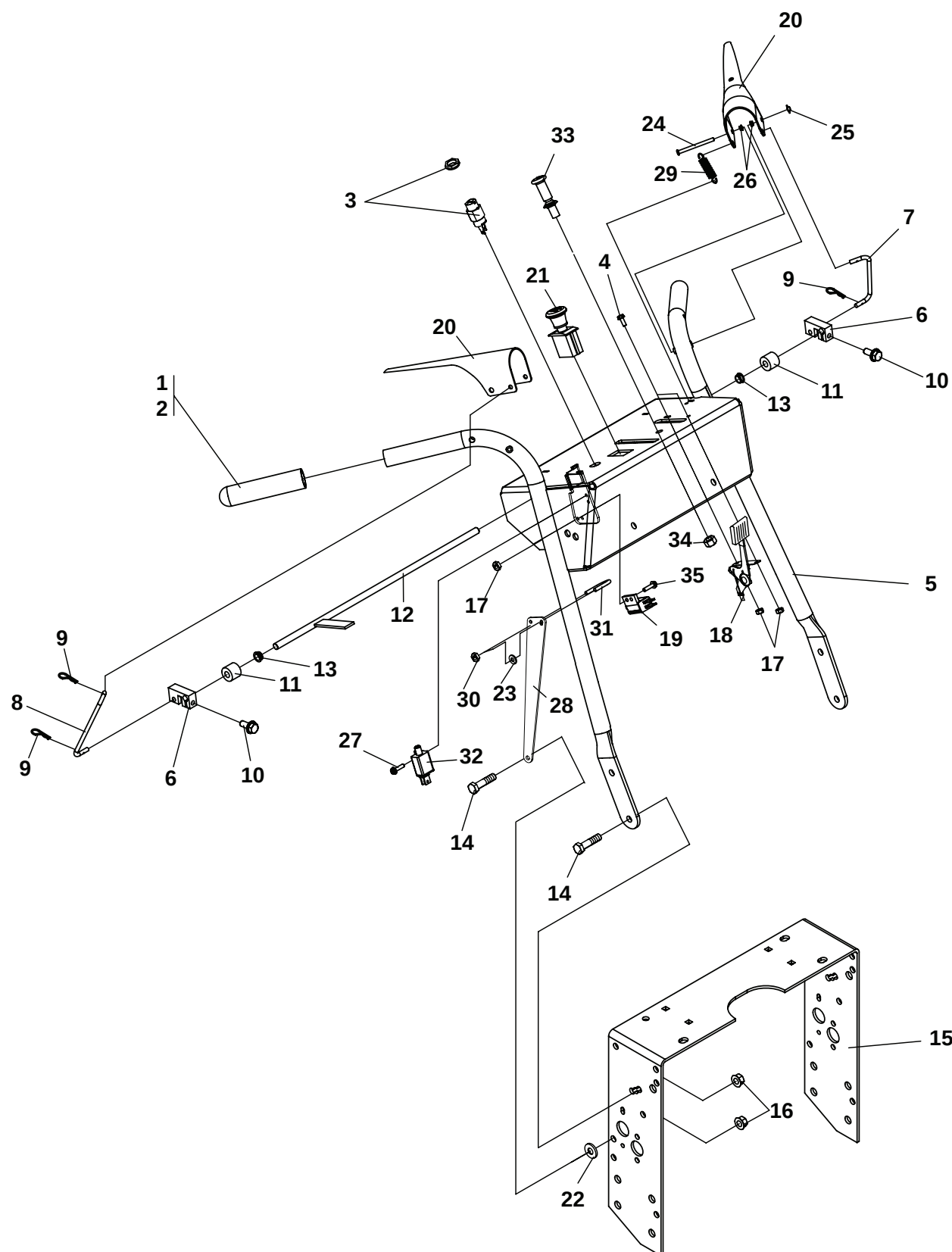


FIGURE 6

| ITEM | PART NO.  | DESCRIPTION                                    | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|-----------|------------------------------------------------|-----|------|----------|-------------|-----|
| 1    | PL5029    | GRIP-HANDLE                                    | 2   |      |          |             |     |
| 2 *  | 2308121   | ADHESIVE-3 GRAM TUBE<br>(USE WITH PL5029 GRIP) | 1   |      |          |             |     |
| 3    | 128010    | SWITCH-ENGINE                                  | 1   |      |          |             |     |
| 4    | 64152-46  | SCR-SLT HH 10-24X1/2                           | 2   |      |          |             |     |
| 5    | 4166161   | S UPR HNDL HYD W/CHK                           | 1   |      |          |             |     |
| 6    | 2303023   | CONNECTOR-OP                                   | 2   |      |          |             |     |
| 7    | 4122104   | ROD-HANDLE LINK, LH                            | 1   |      |          |             |     |
| 8    | 4122107   | ROD-HANDLE LINK, RH                            | 1   |      |          |             |     |
| 9    | 64168-2   | COTTER-HAIRPIN.08X1.19                         | 4   |      |          |             |     |
| 10   | 64197-002 | BLT-TDFM 1/4-20X3/4                            | 2   |      |          |             |     |
| 11   | 33030-09  | IDLER-BUSHING                                  | 2   |      |          |             |     |
| 12   | 4122056   | WLDMT-OP PRESENCE                              | 1   |      |          |             |     |
| 13   | 38371-01  | BRG-NYLINER 3/8                                | 2   |      |          |             |     |
| 14   | 64123-50  | BOLT-HEX 3/8-16X1                              | 4   |      |          |             |     |
| 15   | 4164391.7 | HANDLE-LOWER P-GRIP                            | 1   |      |          |             |     |
| 16   | 64141-4   | NUT-WLF 3/8-16                                 | 4   |      |          |             |     |
| 17   | 64025-15  | NUT-HEX #10-24 KEPS                            | 4   |      |          |             |     |
| 18   | 38357-09  | CONTROL-THROTTLE                               | 1   |      |          |             |     |
| 19   | 2308094   | SWITCH-N.C.NC DBL POLE                         | 2   |      |          |             |     |
| 20   | 2302152.7 | HNDL-OP PRESENT                                | 2   |      |          |             |     |
| 21   | 2721505   | SWITCH-PTO                                     | 1   |      |          |             |     |
| 22   | 64163-83  | WASHER-.406 X 1.00 X.25                        | 2   |      |          |             |     |
| 23   | 64163-03  | WSHR-.256IDX.62ODX18GA                         | 2   |      |          |             |     |
| 24   | 64188-44  | PIN-CLEVIS 3/16 X 2.25                         | 2   |      |          |             |     |
| 25   | 64175-01  | PUSHNUT-3/16 ROD                               | 2   |      |          |             |     |
| 26   | 38371-03  | BRG-NYLINER 3/16                               | 4   |      |          |             |     |
| 27   | 64197-015 | BLT-TDFM 10-32X1/2                             | 2   |      |          |             |     |
| 28   | 4166096.7 | BRACE-HANDLE                                   | 2   |      |          |             |     |
| 29   | 2308065   | SPRING-TENSION                                 | 2   |      |          |             |     |
| 30   | 64229-01  | LOCKNUT-NYLON 1/4-20                           | 4   |      |          |             |     |
| 31   | 64225-03  | U-BOLT                                         | 2   |      |          |             |     |
| 32   | 108208    | SWITCH DBL POLE NC/NO                          | 1   |      |          |             |     |
| 33   | 108009-03 | CONTROL CHOKE 51"                              | 1   |      |          |             |     |
| 34   | 64025-04  | NUT-HEX 3/8-24                                 | 1   |      |          |             |     |
| 35   | 64152-49  | SCRW-SLT HH #10-24X3/4                         | 2   |      |          |             |     |

\* NOT ILLUSTRATED

FIGURE 7

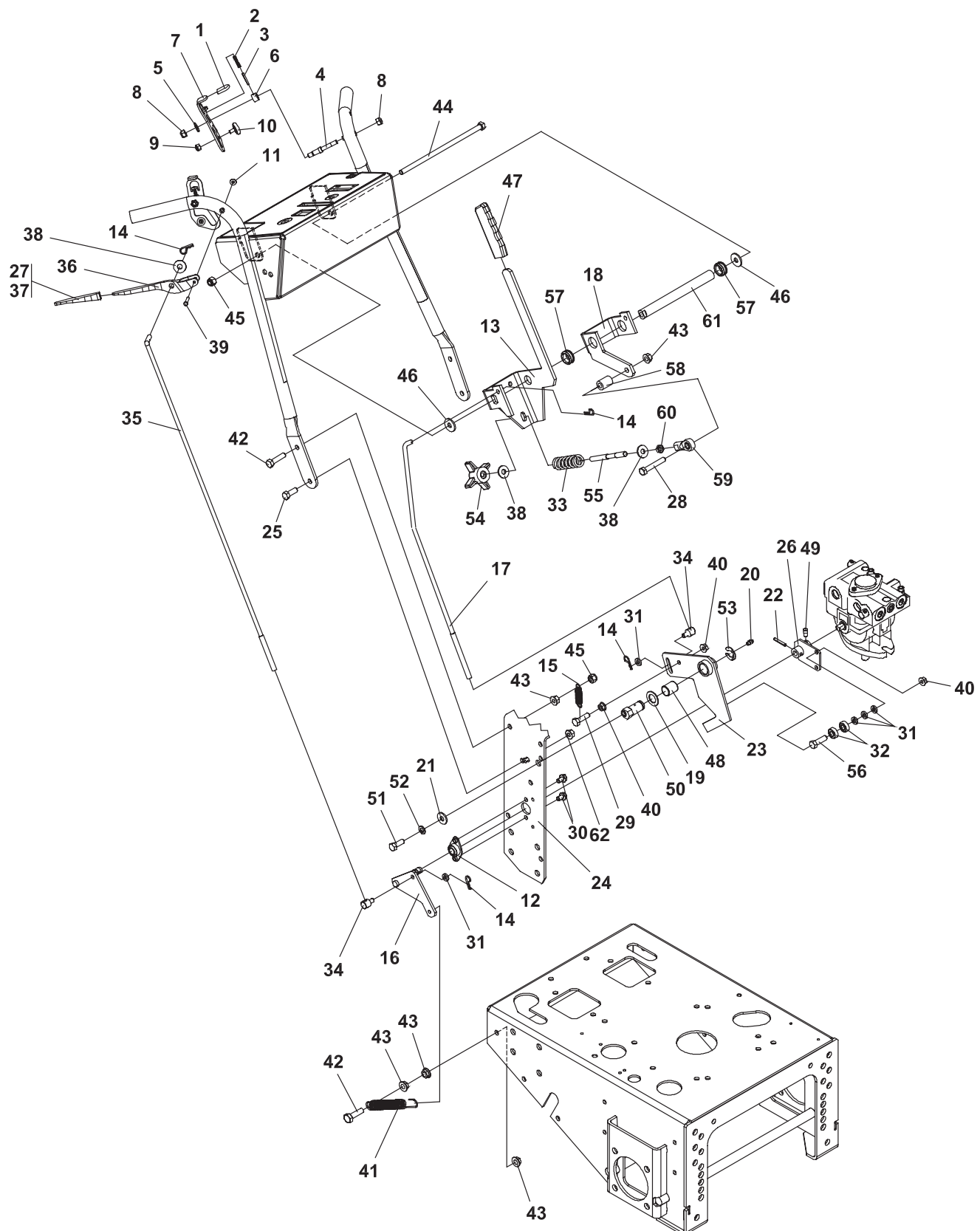


FIGURE 7

| ITEM | PART NO.               | DESCRIPTION             | QTY | ITEM                                    | PART NO.   | DESCRIPTION               | QTY |
|------|------------------------|-------------------------|-----|-----------------------------------------|------------|---------------------------|-----|
| 1    | 2722426                | GRIP-TRACTION LOCK      | 2   | 41                                      | 4117212    | SPRING EXTENSION          | 2   |
| 2    | 38189                  | SPRING-COMPRESSION      | 2   | 42                                      | 64123-70   | BOLT-HEX 3/8-16X1-1/2     | 4   |
| 3    | 64061-37               | ROLL PIN-1/8 X 1.00 SS  | 2   | 43                                      | 64141-4    | NUT-WLF 3/8-16            | 11  |
| 4    | 2303076                | STUD-DOUBLE ENDED       | 2   | 44                                      | 64123-202  | BLT-HEX 3/8-16 X 9        | 1   |
| 5    | 62464-5A               | WASHER, THRUST 5/16X3/4 | 2   | 45                                      | 64229-03   | NUT-NYLOCK 3/8-16         | 3   |
| 6    | 33243                  | SPACER                  | 2   | 46                                      | 2308066    | FRICTION WASHER           | 2   |
| 7    | 2722242                | LATCH-ROLLER LH HYDRO   | 1   | 47                                      | 38404-01   | GRIP, CONTROL LEVER       | 1   |
| *    | 2722243                | LATCH-ROLLER RH HYDRO   | 1   | 48                                      | 2308076-02 | BEARING-PLASTIC           | 2   |
| 8    | 64229-02               | 5/16-18 NYLON LOCKNUT   | 4   | 49                                      | 64192-04   | SET SCREW 5/16-18X5/8     | 2   |
| 9    | 64229-01               | LOCKNUT NYL 1/4-20      | 2   | 50                                      | 2303058    | ECCENTRIC SHAFT W/ZRK     | 2   |
| 10   | 2308002                | BRG-RADIAL W/THD STUD   | 2   | 51                                      | 64123-02   | BLT HEX 3/8-24 X 1        | 2   |
| 11   | 64175-01               | PUSH NUT                | 2   | 52                                      | 64006-03   | WASHER, 3/8 HELICL LCK    | 2   |
| 12   | 2308080                | BEARING SELF ALIGNED    | 2   | 53                                      | 64144-16   | RING, CLIP-.75X.062       | 2   |
| 13   | 2721843.7              | ARM-RH SPEED CONTROL    | 1   | 54                                      | 38524      | KNOB-4 PRONG 3/8-16       | 1   |
| 14   | 64168-2                | HAIRPIN COTTER          | 7   | 55                                      | 2721854    | STUD-3/8-16X 3/8-24 4.5LG | 1   |
| 15   | 2308065                | SPRING EXTENSION        | 2   | 56                                      | 64123-69   | BOLT-5/16-18X1-1/2 HEX    | 2   |
| 16   | 2721660.7              | WLDMT-PUMP ARM RH       | 1   | 57                                      | 118047-09  | BUSHING-FLIP LOK.75ID     | 2   |
| *    | 2721622.7              | WLDMT-PUMP ARM LH       | 1   | 58                                      | 33030-08   | BUSHING-IDLER7/8X3/8X1    | 1   |
| 17   | 2722305                | ROD-SPEED CONTROL       | 2   | 59                                      | 138011     | BALL JOINT                | 1   |
| 18   | 2721842.7              | ARM-LH SPEED CONTROL    | 1   | 60                                      | 64001-2    | NUT 3/8-16                | 1   |
| 19   | 64163-06               | WSHR.768/.756X1.25X14GA | 2   | 61                                      | 2721844    | BUSHING-SPEED CONTROL     | 1   |
| 20   | 85010N                 | ZERK, 1/4-28 STR        | 2   | 62                                      | 64268-03   | NUT-FLG LYLOCK 3/8-16     | 2   |
| 21   | 64163-61               | WSHR .81X.406X16GA      | 2   | TRACTION LOCK ASSY'S ARE ALSO AVAILABLE |            |                           |     |
| 22   | 64061-28               | ROLL PIN 3/16 X 1 1/4   | 2   | <b>4113565</b> S-TRCTN LOCK ASSY RH 1   |            |                           |     |
| 23   | 2721617.7              | WLDMT-SPEED CONTROL     | 2   | (INCLUDES ITEMS 1-4, 6, 7, 9-12)        |            |                           |     |
| 24   | 4164391.7              | HANDLE-LOWER P-GRIP     | 1   | <b>4113564</b> S-TRCTN LOCK ASSY LH 1   |            |                           |     |
| 25   | 64123-50               | BOLT, 3/8-16X1 HEX      | 2   | (INCLUDES ITEMS 1-4, 6, 7, 9-12)        |            |                           |     |
| 26   | 2306081.7              | WLDMT PUMP ARM          | 2   |                                         |            |                           |     |
| 27 * | 2308121                | ADHESIVE                | 1   |                                         |            |                           |     |
|      | (USE WITH 38009N GRIP) |                         |     |                                         |            |                           |     |
| 28   | 64123-100              | BOLT-3/8-16X2-1/4 HEX   | 1   |                                         |            |                           |     |
| 29   | 64123-68               | BLT-HEX 5/16-18 X 1     | 2   |                                         |            |                           |     |
| 30   | 64139-13               | BLT-WLF 5/16-18X1/2     | 4   |                                         |            |                           |     |
| 31   | 64163-02               | WSHR 21/64X19/32X11 GA  | 11  |                                         |            |                           |     |
| 32   | 38372                  | BEARING BALL            | 4   |                                         |            |                           |     |
| 33   | 2720312                | SPRING-COMP IDLER PLT   | 1   |                                         |            |                           |     |
| 34   | 33103                  | SWIVEL                  | 4   |                                         |            |                           |     |
| 35   | 4122108                | ROD-TRCTN CNTRL, HYDRO  | 2   |                                         |            |                           |     |
| 36   | 31032                  | LEVER TRACTION CNTRL    | 2   |                                         |            |                           |     |
| 37   | 38009N                 | GRIP TRACTION CNTRL     | 2   |                                         |            |                           |     |
| 38   | 64163-31               | WASH 25/64X1X12 GA      | 4   |                                         |            |                           |     |
| 39   | 64188-44               | PIN-CLEVIS 3/16 X 2.25  | 2   |                                         |            |                           |     |
| 40   | 64141-6                | NUT-WLF 5/16-18         | 6   |                                         |            |                           |     |

\* NOT ILLUSTRATED

FIGURE 8

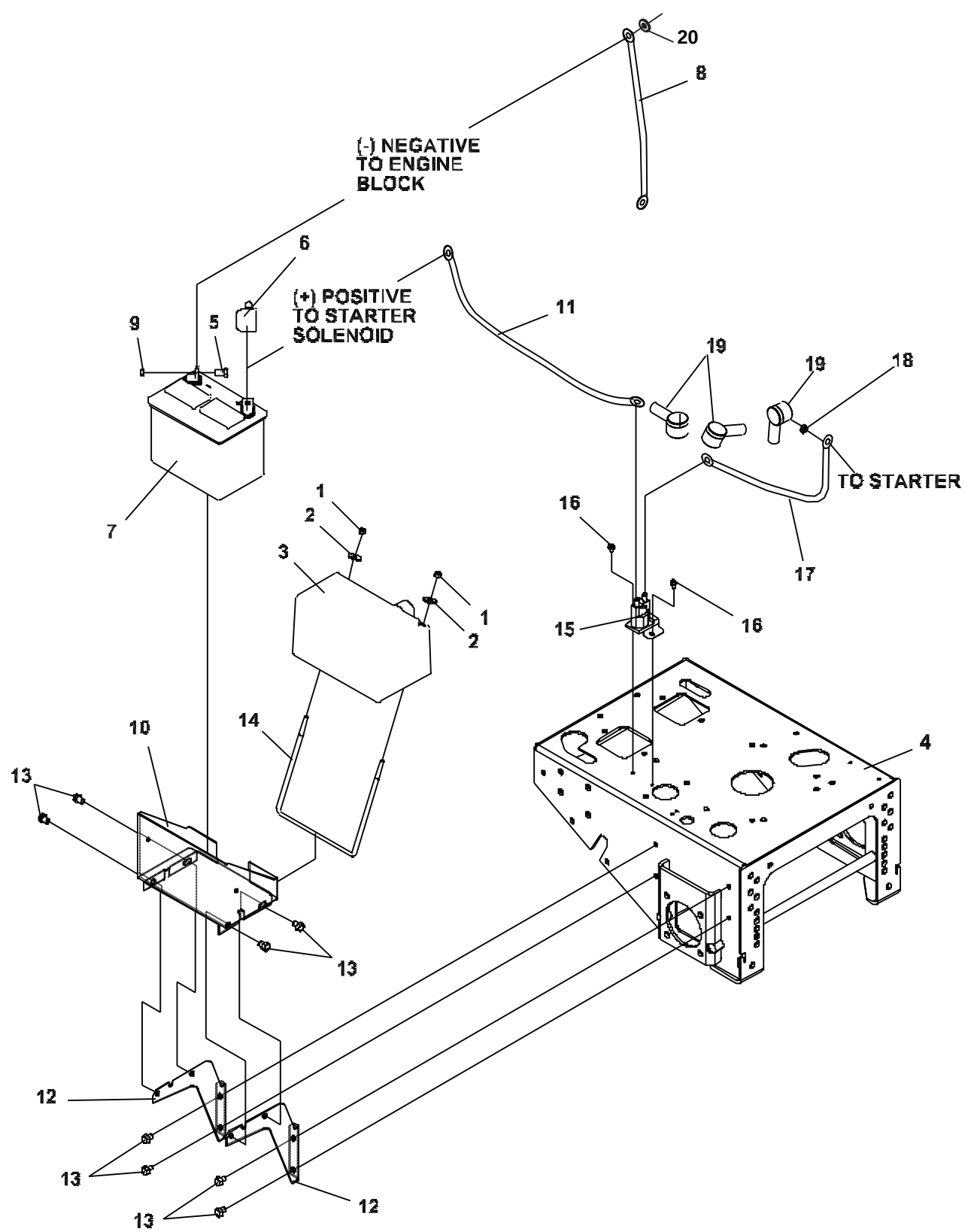


FIGURE 8

| ITEM | PART NO.   | DESCRIPTION            | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|------------|------------------------|-----|------|----------|-------------|-----|
| 1    | 64229-02   | LOCKNUT-NYLON 5/16-18  | 2   |      |          |             |     |
| 2    | 64163-29   | WASHER                 | 2   |      |          |             |     |
| 3    | 128035     | COVER-BATTERY          | 1   |      |          |             |     |
| 4    | 4131068.2  | DECK-ENGINE HYDRO      | 1   |      |          |             |     |
| 5    | 64123-54   | BLT-HEX 5/16-18X3/4    | 2   |      |          |             |     |
| 6    | 112386     | BOOT-BATTERY TERM POS  | 1   |      |          |             |     |
| 7    | 108055     | BATTERY                | 1   |      |          |             |     |
| 8    | 108061-16  | CABLE-BTTRY 31.5 BLACK | 1   |      |          |             |     |
| 9    | 64025-02   | NUT-HEX 5/16-18        | 2   |      |          |             |     |
| 10   | 4113741    | S-TRAY, BATTERY        | 1   |      |          |             |     |
| 11   | 2722227-03 | CABLE-BTTRY W/CONDUIT  | 1   |      |          |             |     |
| 12   | 2722202.7  | SUPPORT-BATT TRAY      | 2   |      |          |             |     |
| 13   | 64197-016  | BLT-TDFM 3/8-16X1/2    | 8   |      |          |             |     |
| 14   | 123026     | ROD,BATTERY HLD DWN    | 1   |      |          |             |     |
| 15   | 38665      | SOLENOID               | 1   |      |          |             |     |
| 16   | 64152-23   | 1/4-20X3/8 LG SP SCREW | 2   |      |          |             |     |
| 17   | 108061-15  | CABLE-BATTERY 6.5 RED  | 1   |      |          |             |     |
| 18   | 64141-2    | NUT-WLF 1/4-20         | 1   |      |          |             |     |
| 19   | 2308095    | COVER, TERMINAL        | 3   |      |          |             |     |
| 20   | 64163-03   | WSHR-.256X.62X18GA     | 2   |      |          |             |     |

FIGURE 9

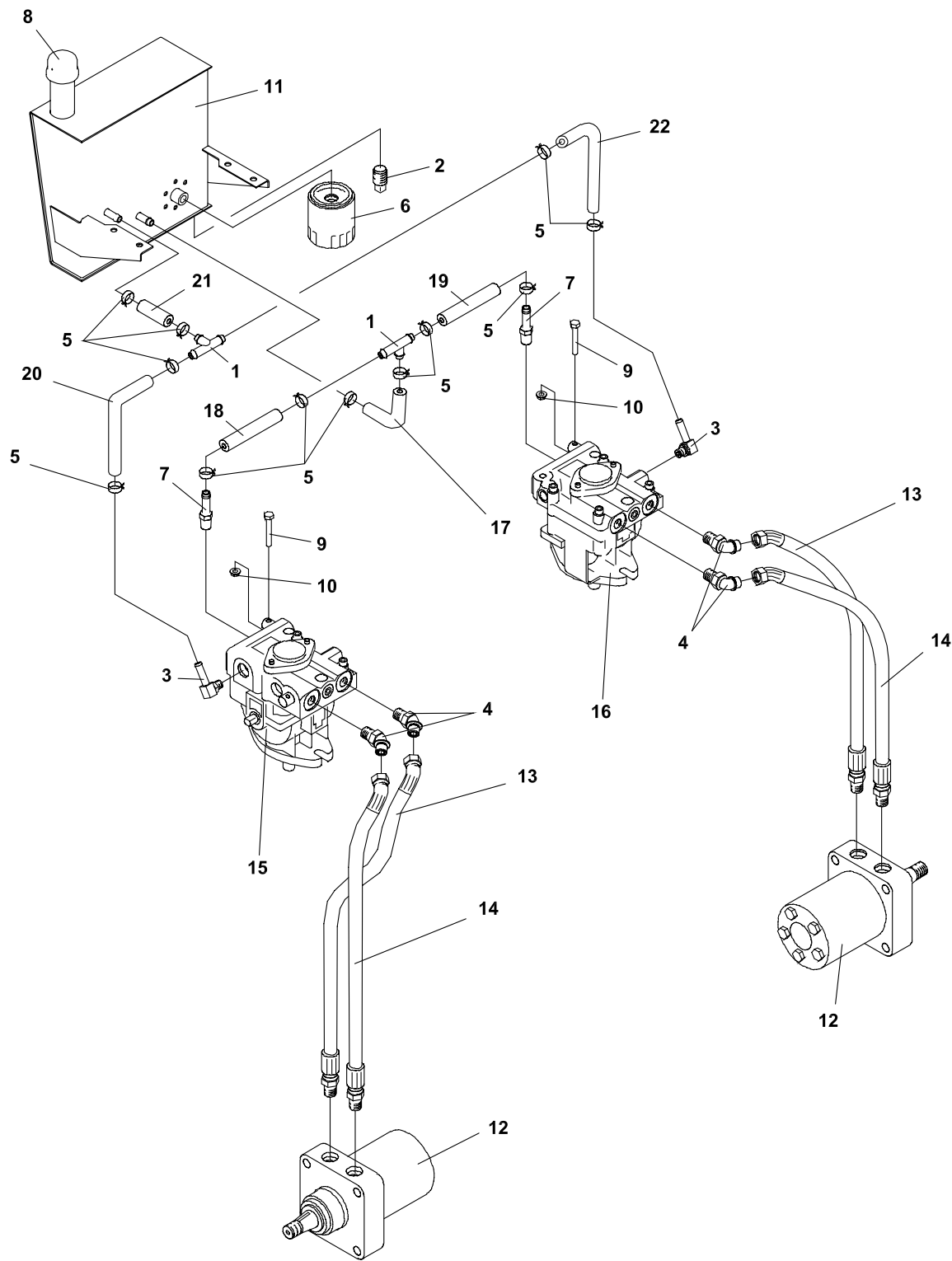


FIGURE 9

| ITEM                                      | PART NO.   | DESCRIPTION                                       | QTY |
|-------------------------------------------|------------|---------------------------------------------------|-----|
| 1                                         | 58026-01   | 3-WAY CONNECTOR                                   | 2   |
| 2                                         | 108029     | PLUG, MAGNETIC                                    | 1   |
| 3                                         | 158058-04  | FITTING-90 BARB, ADJ.                             | 2   |
| 4                                         | 108205-02  | ELBW-MALE 45 8X8 37-ORB                           | 4   |
| 5                                         | 88042-04   | CLAMP-HOSE 5/8"                                   | 12  |
| 6                                         | 2720396    | FLTR, 25 MCRN SM CAM                              | 1   |
| 7                                         | 69060-01   | FTG-BARB 9/16 X 3/8 ST                            | 2   |
| 8                                         | 69216.7    | CAP-RESERVOIR                                     | 1   |
| 9                                         | 64123-60   | BOLT, 1/4-20X2 HEX                                | 2   |
| 10                                        | 64229-01   | LOCKNUT-NYLON 1/4-20                              | 2   |
| 11                                        | 2306127    | S HYD RESER W/LABS                                | 1   |
| 12                                        | 2308051    | MOTOR WHEEL ROSS                                  | 2   |
| 13                                        | 2692300-01 | HOSE-1/2 37/ORB X 18.5 LG                         | 2   |
| 14                                        | 2692300-02 | HOSE-1/2 37/ORB X 20.5 LG                         | 2   |
| 15                                        | 4163317    | PUMP-HYDRO RH<br>(SEE FIG 16 FOR PARTS BREAKDOWN) | 1   |
| 16                                        | 4163316    | PUMP-HYDRO LH<br>(SEE FIG 16 FOR PARTS BREAKDOWN) | 1   |
| (69053-05 IS A SERVICEABLE LENGTH OF 55") |            |                                                   |     |
| 17                                        | 69053-05   | 3/8 HI TEMP HOSE 17.0"                            | 1   |
| 18                                        | 69053-05   | 3/8 HI TEMP HOSE 5.0"                             | 1   |
| 19                                        | 69053-05   | 3/8 HI TEMP HOSE 5.0"                             | 1   |
| 20                                        | 69053-05   | 3/8 HI TEMP HOSE 7.5"                             | 1   |
| 21                                        | 69053-05   | 3/8 HI TEMP HOSE 6.8"                             | 1   |
| 22                                        | 69053-05   | 3/8 HI TEMP HOSE 12.0"                            | 1   |

## SERVICEABLE HYDRAULIC O-RINGS

| 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    |

**NOTE:**  
**DO NOT** use teflon tape on any hydraulic fittings.  
 Use a liquid pipe sealant.

FIGURE 10

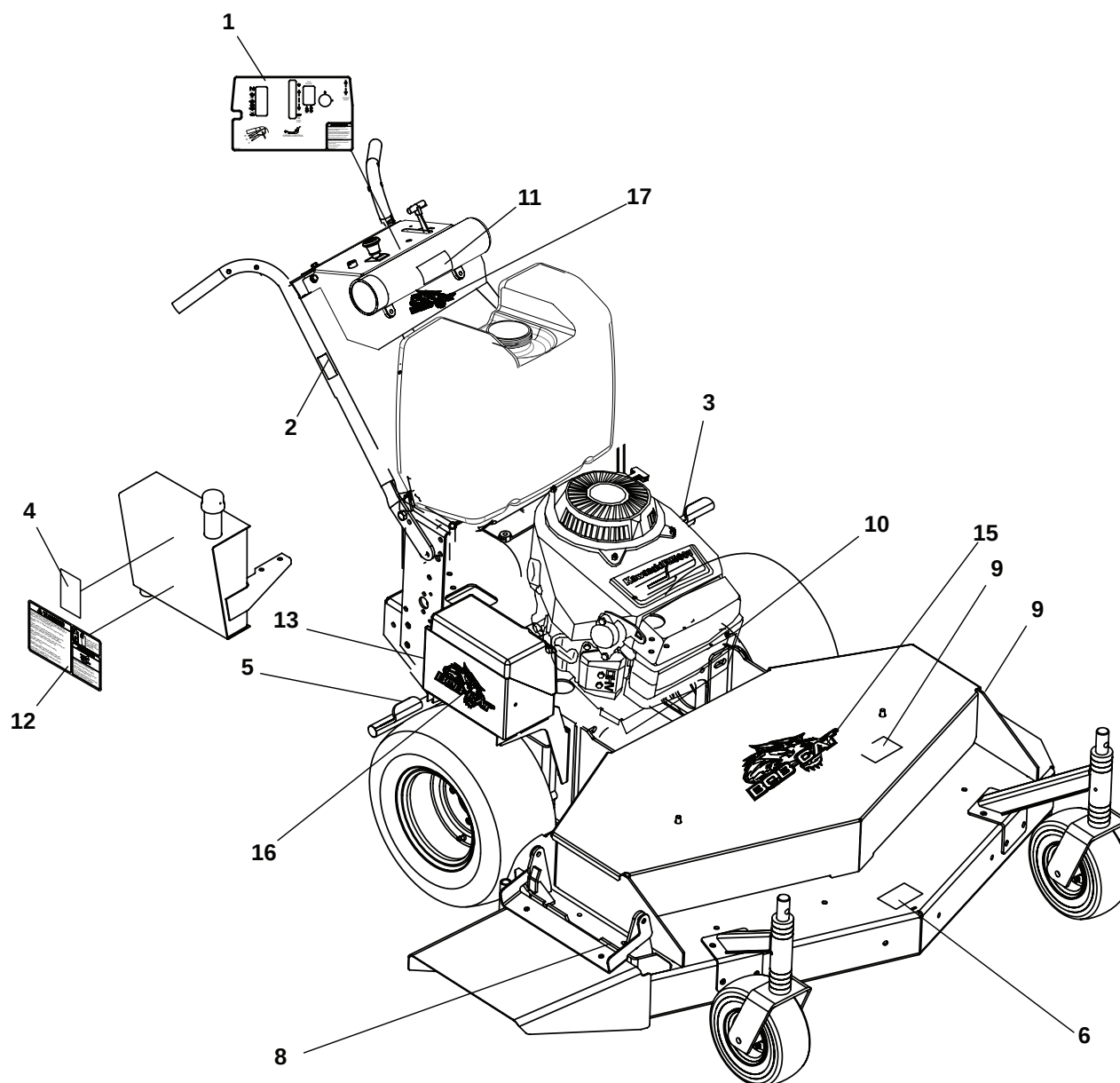


FIGURE 10

| ITEM | PART NO. | DESCRIPTION                | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|----------------------------|-----|------|----------|-------------|-----|
| 1    | 4164567  | LABEL-CONTROL PNL W/CHK    | 1   |      |          |             |     |
|      | 4122167  | LABEL-CONTROL PNL HYD      | 1   |      |          |             |     |
| 2    | 2000672  | LABEL-PARKING BRAKE        | 1   |      |          |             |     |
| 3    | 2000570  | LABEL-WARN FUEL PICT       | 1   |      |          |             |     |
| 4    | 340830   | LABEL-CAUTION SPANISH      | 1   |      |          |             |     |
| 5    | 2000571  | LABEL-IMPORTANT            | 1   |      |          |             |     |
| 6    | 4116761  | LABEL-MADE IN USA          | 1   |      |          |             |     |
| 7    | 2000572  | LABEL-WARNING BLADES       | 1   |      |          |             |     |
| 8    | 2000677  | LABEL-DANGER/WARNING       | 1   |      |          |             |     |
| 9    | 4164269  | LABEL-ROT PRTS/B-WSHR      | 1   |      |          |             |     |
|      |          | (LOCATED UNDER BELT COVER) |     |      |          |             |     |
| 10   | 2000704  | LABEL-MIDSIZE PATENT       | 1   |      |          |             |     |
| 11   | 2000673  | LABEL - OP MAN/TIRES       | 1   |      |          |             |     |
| 12   | 2000661  | LABEL-HYD TANK WARN        | 1   |      |          |             |     |
| 13   | 2000590  | LABEL-WARNING BATTERY      | 1   |      |          |             |     |
| 14*  | 4110260  | LABEL-TRACKING CNTRL       | 1   |      |          |             |     |
| 15   | 4158401  | LABEL-BOBCAT, LARGE        | 1   |      |          |             |     |
| 16   | 4158400  | LABEL-BOBCAT, MEDIUM       | 1   |      |          |             |     |
| 17   | 4158402  | LABEL-BOBCAT, SMALL        | 1   |      |          |             |     |

\* NOT ILLUSTRATED

# WIRE DIAGRAM-RECOIL START

Hydro  
Midsized

FIGURE 11

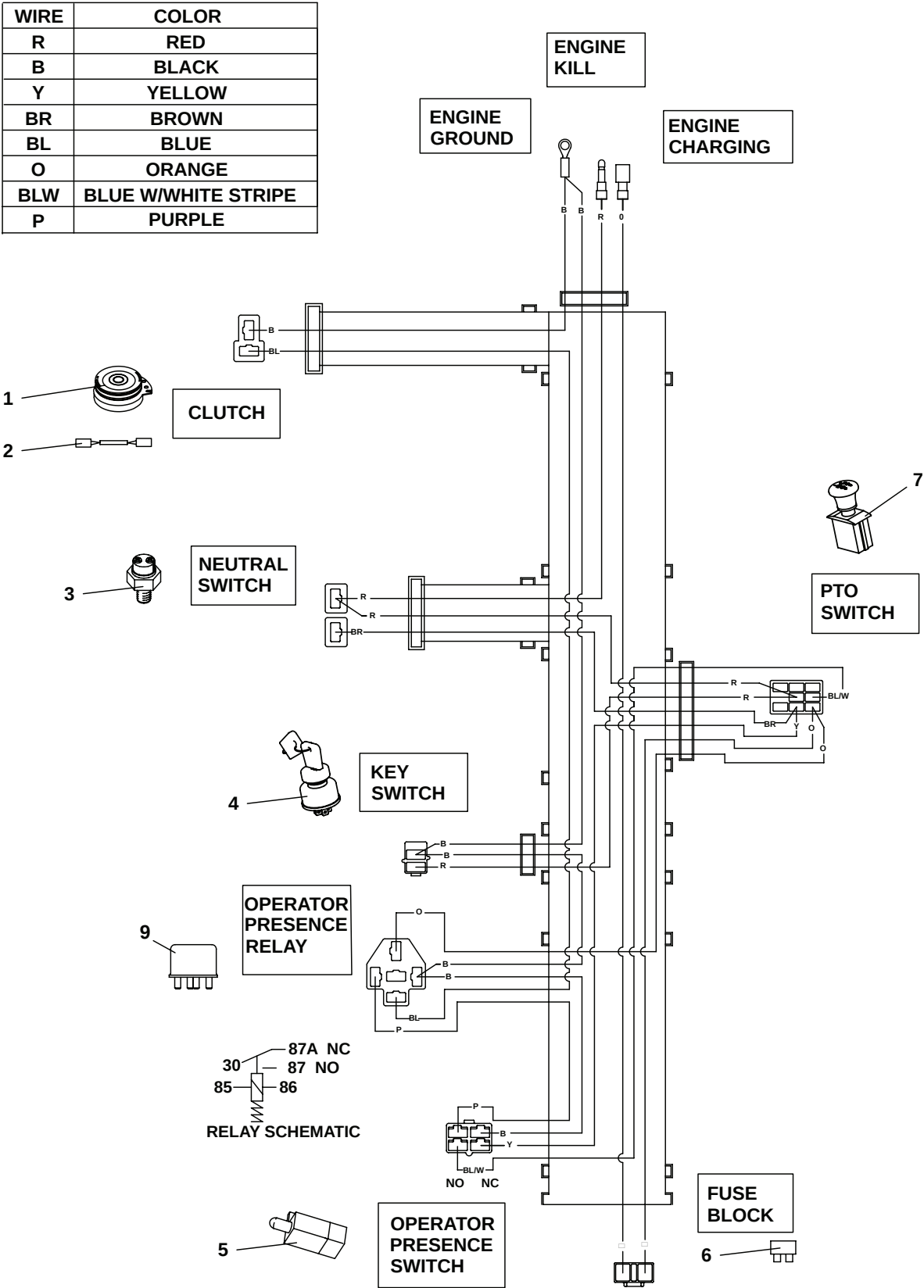


FIGURE 11

| ITEM | PART NO.  | DESCRIPTION                                   | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|-----------|-----------------------------------------------|-----|------|----------|-------------|-----|
| 1    | 2721110   | CLUTCH-ELECTRIC<br>(INCLUDES ITEM 2)          | 1   |      |          |             |     |
| 2    | 2720949   | ASSY-CLUTCH WIRE                              | 1   |      |          |             |     |
| 3    | 2722033   | SWITCH-NEUTRAL                                | 1   |      |          |             |     |
| 4    | 38148     | SWITCH-ENGINE STOP                            | 1   |      |          |             |     |
| 5    | 108208    | SWITCH DBL POLE NC/NO                         | 1   |      |          |             |     |
| 6    | 148082-10 | FUSE 10 AMP                                   | 1   |      |          |             |     |
| 7    | 2721505   | SWITCH-PTO                                    | 1   |      |          |             |     |
| 8    | 4166845   | HARNESS-MID GEAR DRV<br>(INCLUDES ITEM 6 & 9) | 1   |      |          |             |     |
| 9    | 2722325   | RELAY-40 AMP SEALED                           | 1   |      |          |             |     |

# WIRE DIAGRAM-ELECTRIC START

Hydro  
Midsized

FIGURE 12

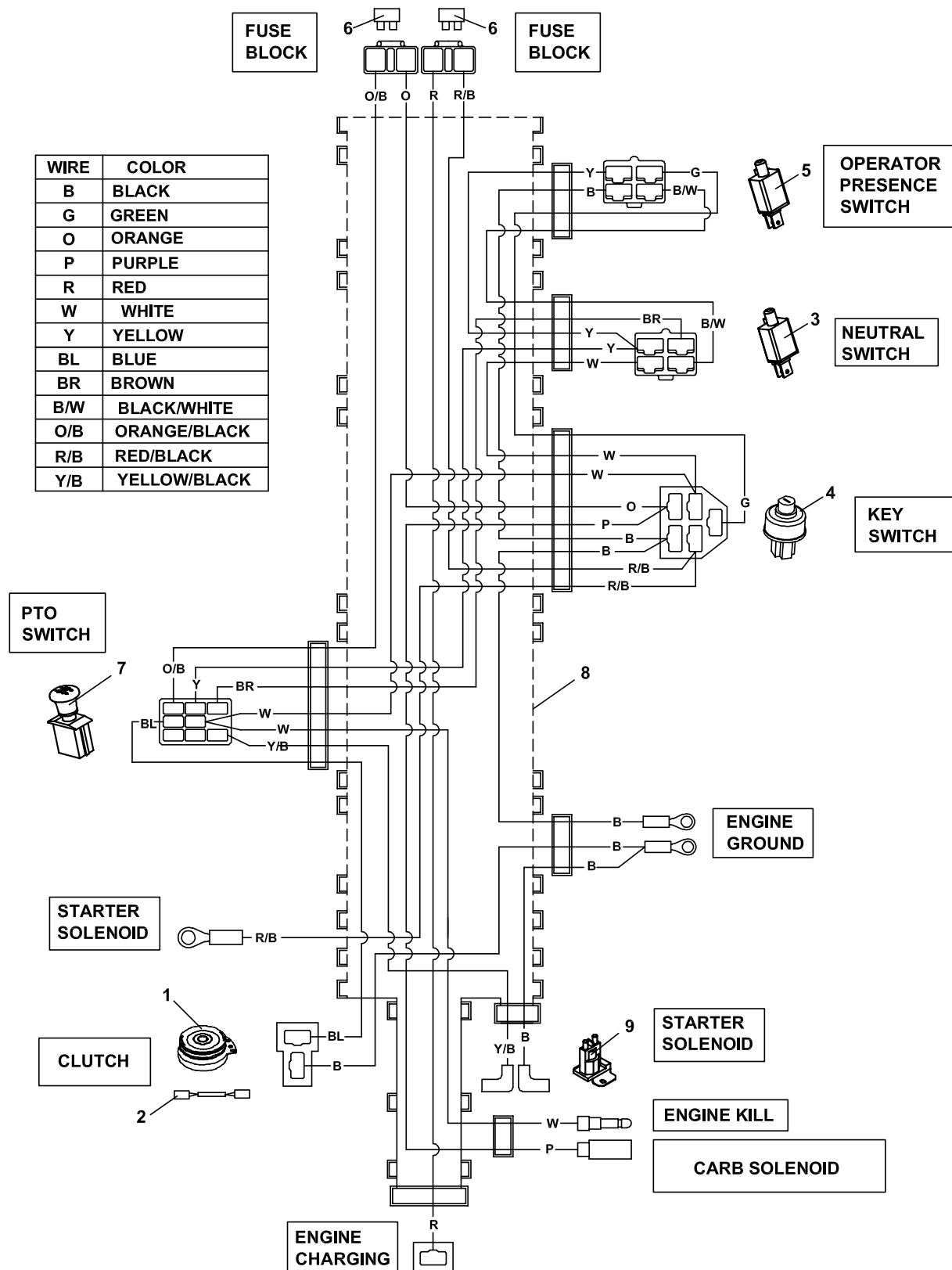


FIGURE 12

| ITEM | PART NO.   | DESCRIPTION                                                                          | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|------------|--------------------------------------------------------------------------------------|-----|------|----------|-------------|-----|
| 1    | 2721110    | CLUTCH-ELECTRIC<br>(INCLUDES ITEM 2)                                                 | 1   |      |          |             |     |
| 2    | 2720949    | ASSY-CLUTCH WIRE                                                                     | 1   |      |          |             |     |
| 3    | 108208     | SWITCH DBL POLE                                                                      | 1   |      |          |             |     |
| 4    | 128010     | KEY SWITCH                                                                           | 1   |      |          |             |     |
| 5    | 2308094    | SWITCH-NCNC DBL POLE                                                                 | 1   |      |          |             |     |
| 6    | 148082-20  | FUSE 20 AMP                                                                          | 2   |      |          |             |     |
| 7    | 2721505    | SWITCH-PTO                                                                           | 1   |      |          |             |     |
| 8    | 4128561    | HARNESS-HYDRO MAIN<br>(INCLUDES QTY OF 2 OF ITEM 6)                                  | 1   |      |          |             |     |
| 9    | 38665      | SOLENOID-STARTER                                                                     | 1   |      |          |             |     |
| 10*  | 108061-15  | CABLE-BATTERY 6.5 RED<br>(FROM STARTER SOLENOID TO STARTER)                          | 1   |      |          |             |     |
| 11*  | 2722227-03 | CABLE-BTTRY W/CONDUIT<br>(FROM (+) POSITIVE BATTERY TERMINAL<br>TO STARTER SOLENOID) | 1   |      |          |             |     |
| 12*  | 108061-16  | CABLE-BTTRY 31.5 BLACK<br>(FROM (-) NEGATIVE BATTERY TERMINAL<br>TO ENGINE BLOCK)    | 1   |      |          |             |     |

\* NOT ILLUSTRATED

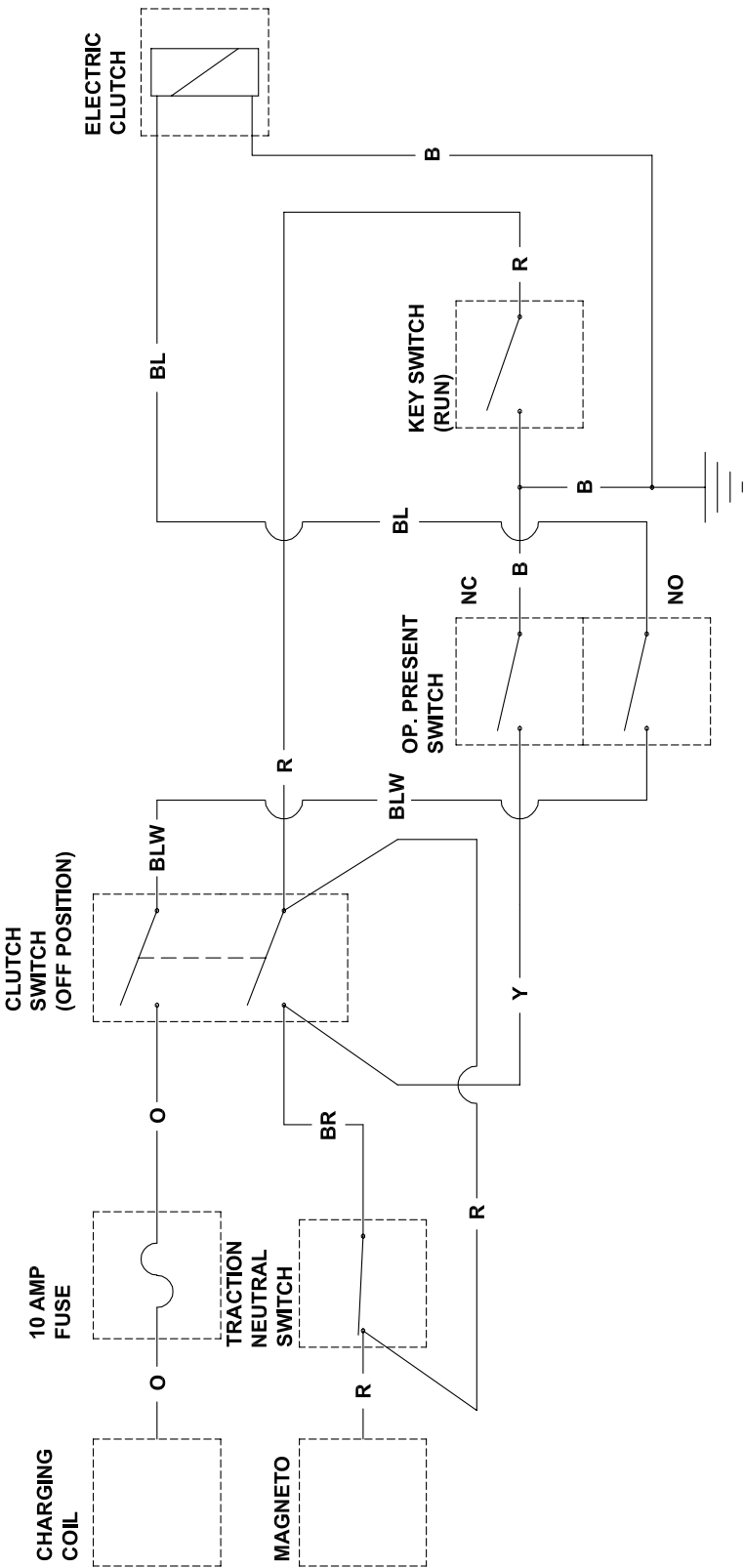
# WIRING SCHEMATIC-RECOIL START

Hydro  
Midsized

FIGURE 13

REF. 4115548

| WIRE | COLOR               |
|------|---------------------|
| R    | RED                 |
| B    | BLACK               |
| Y    | YELLOW              |
| BR   | BROWN               |
| BL   | BLUE                |
| O    | ORANGE              |
| BLW  | BLUE W/WHITE STRIPE |



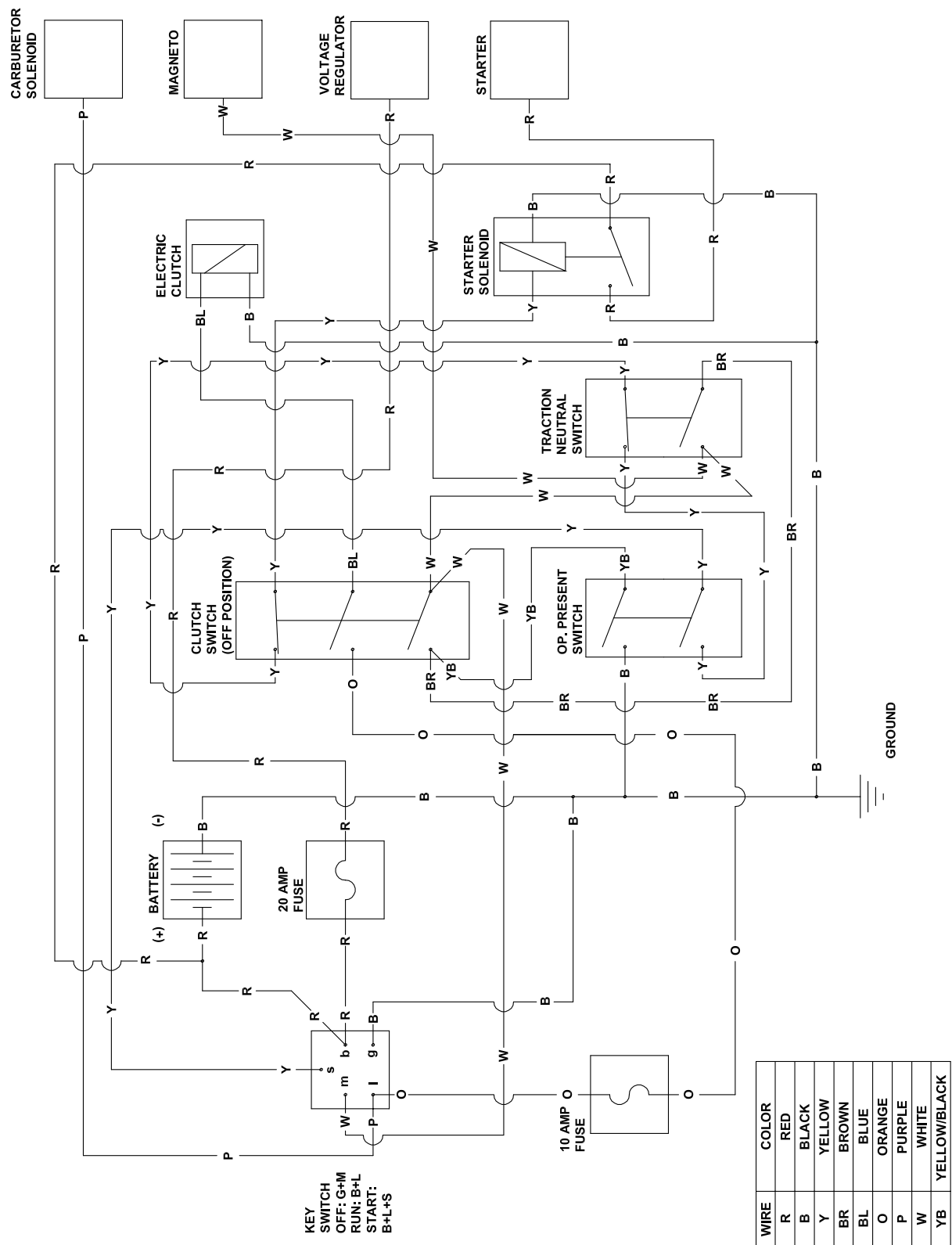


FIGURE 15

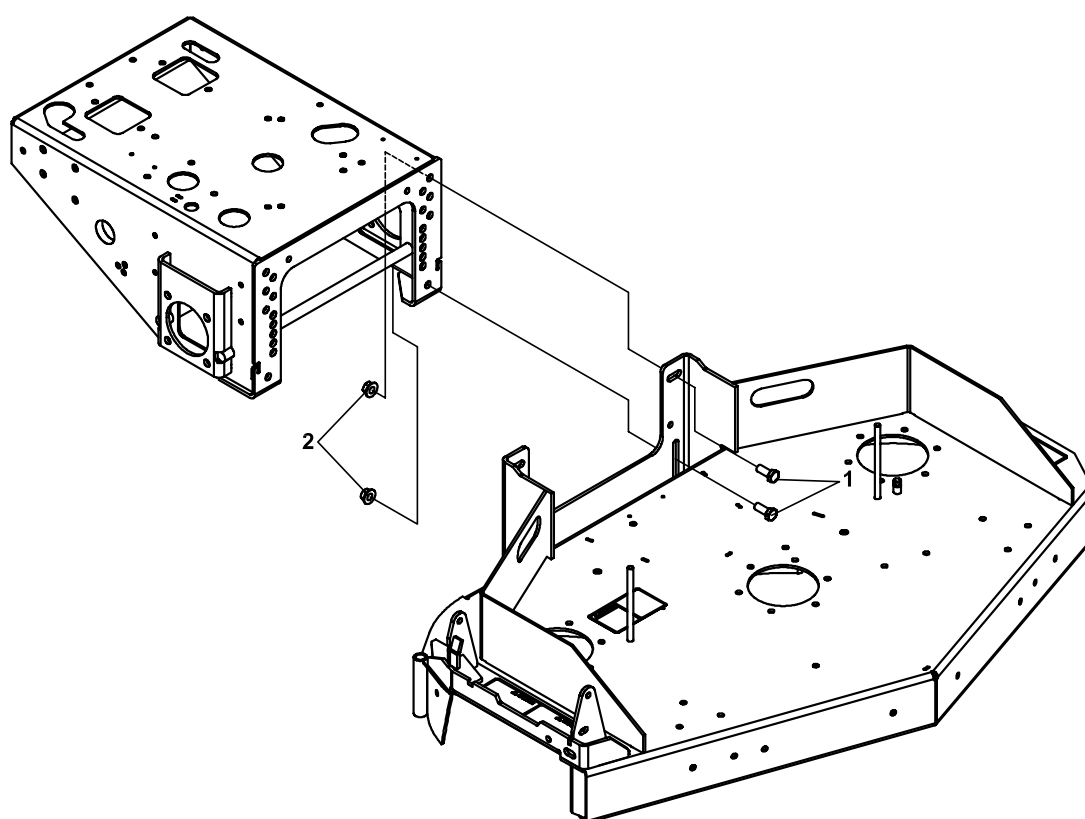
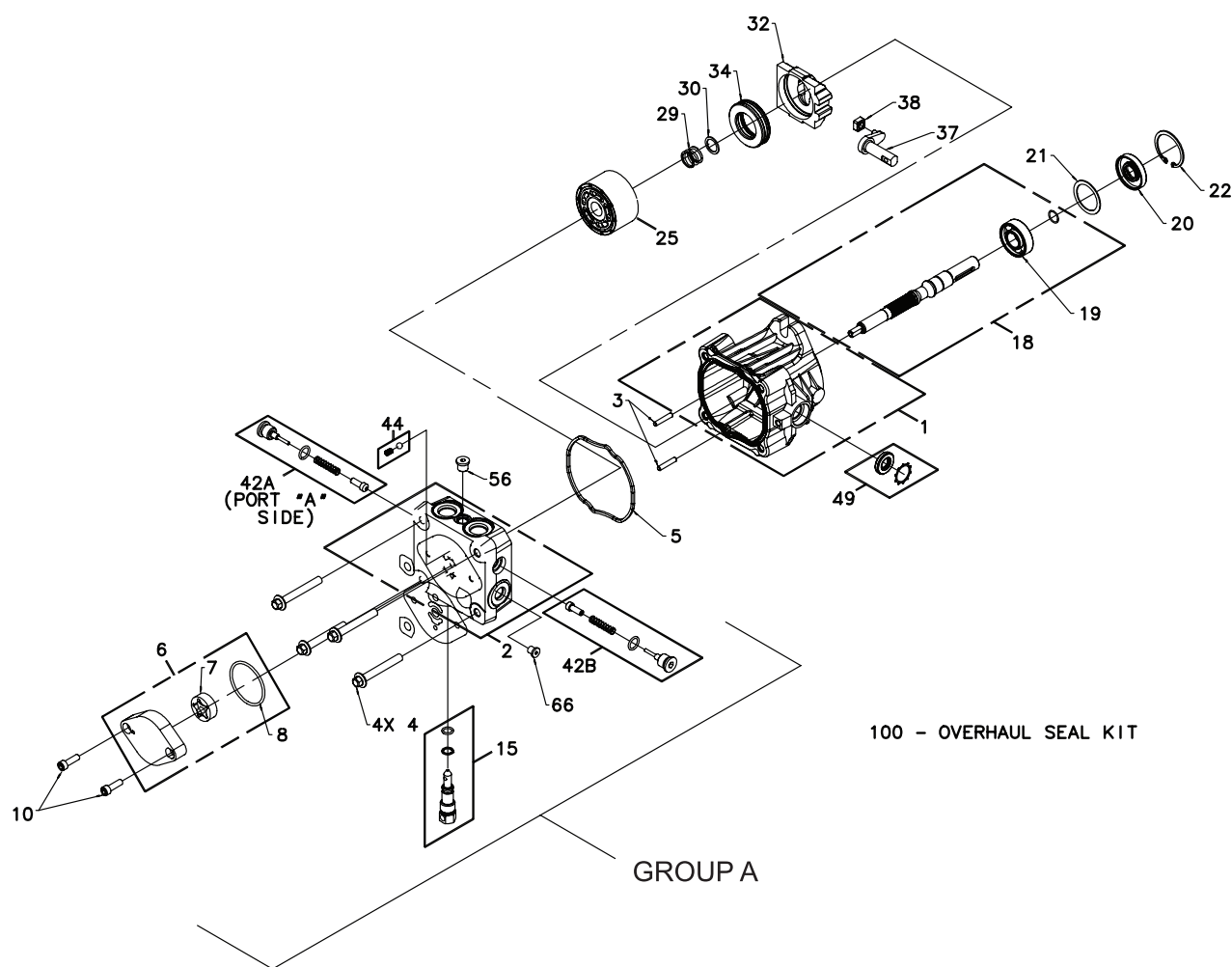


FIGURE 15

| ITEM | PART NO.  | DESCRIPTION              | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|-----------|--------------------------|-----|------|----------|-------------|-----|
| 1    | 64263-018 | BLT-FLG HD M12-1.75 X 30 | 4   |      |          |             |     |
| 2    | 64246-04  | NUT-WHIZ M12-1.75        | 4   |      |          |             |     |

FIGURE 16



4112782 & 4163317 PUMP-HYDRO RH ILLUSTRATED AS SHOWN

2721615 & 4163316 PUMP-HYDRO LH ILLUSTRATED AS SHOWN EXCEPT GROUP A IS ROTATED  
180° AROUND THE CENTERLINE OF THE PUMP.

| ITEM | HYDROGEAR PART NO. | PART NO.   | DESCRIPTION                | QTY |
|------|--------------------|------------|----------------------------|-----|
| 1    | 70516              | -----      | HOUSING KIT                | 1   |
| 2    | 71615              | ----       | END CAP KIT                | 1   |
| 3    | 50641              | -----      | STRAIGHT HEADLESS PIN      | 2   |
| 4    | 50969              | 2721615-01 | FLANGE BOLT M8-1.25 X 60   | 4   |
| 5    | 52629              | 4163316-01 | HOUSIGN O-RING             | 1   |
| 6    | 2513027            | 2721615-03 | CHARGE PUMP KIT (STD)      | 1   |
| 7    | 50273              | 2721615-04 | STD GEROTOR ASSEMBLY       | 1   |
| 8    | 9004101-1340       | 2721615-05 | O-RING                     | 1   |
| 10   | 50975              | 4163316-02 | SOCKET HEAD M6-1/0 X 20    | 2   |
| 15   | 2513030            | -----      | BYPASS VALVE KIT (BLANK)   | 1   |
| 18   | 70521              | 2721615-07 | PUMP SHAFT KIT             | 1   |
| 19   | 50315              | -----      | BALL BEARING 17 X 40 X 12  | 1   |
| 20   | 51161              | -----      | LIP SEAL 17 x 40 x 12      | 1   |
| 21   | 50951              | -----      | SPACER                     | 1   |
| 22   | 50329              | -----      | RETAINING RING             | 1   |
| 25   | 70723              | 4163316-03 | CYLINDER BLOCK KIT         | 1   |
| 29   | 2003014            | -----      | BLOCK SPRING               | 1   |
| 30   | 2003017            | -----      | BLOCK THRUST WASHER        | 1   |
| 31   | 51246              | 2721615-09 | VALVE PLATE                | 1   |
| 32   | 2003087            | 2721615-10 | SWASHPLATE                 | 1   |
| 34   | 50551              | 2721615-11 | BALL THRUST BEARING        | 1   |
| 37   | 2003005            | 2721615-12 | TRUNNION ARM               | 1   |
| 38   | 2000015            | 2721615-13 | SLOT GUIDE                 | 1   |
| 42A  | 2510027            | 2721615-14 | CHECK VALVE KIT (.031")    | 1   |
| 42B  | 2510050            | 2721615-15 | CHECK VALVE KIT (BLANK)    | 1   |
| 44   | 70402              | 4163316-04 | CHARGE RELIEF VALVE KIT    | 1   |
| 49   | 2513043            | 2721615-17 | TRUNNION SEAL/RETAINER KIT | 1   |
| 56   | 9005110-4400       | -----      | STRAIGHT THREAD PLUG       | 1   |
| 66   | 9005110-3100       | -----      | 5/16 SAE PLUG              | 1   |
| 100  | 70525              | 2721615-18 | OVERHAUL SEAL KIT          | 1   |

FIGURE 17

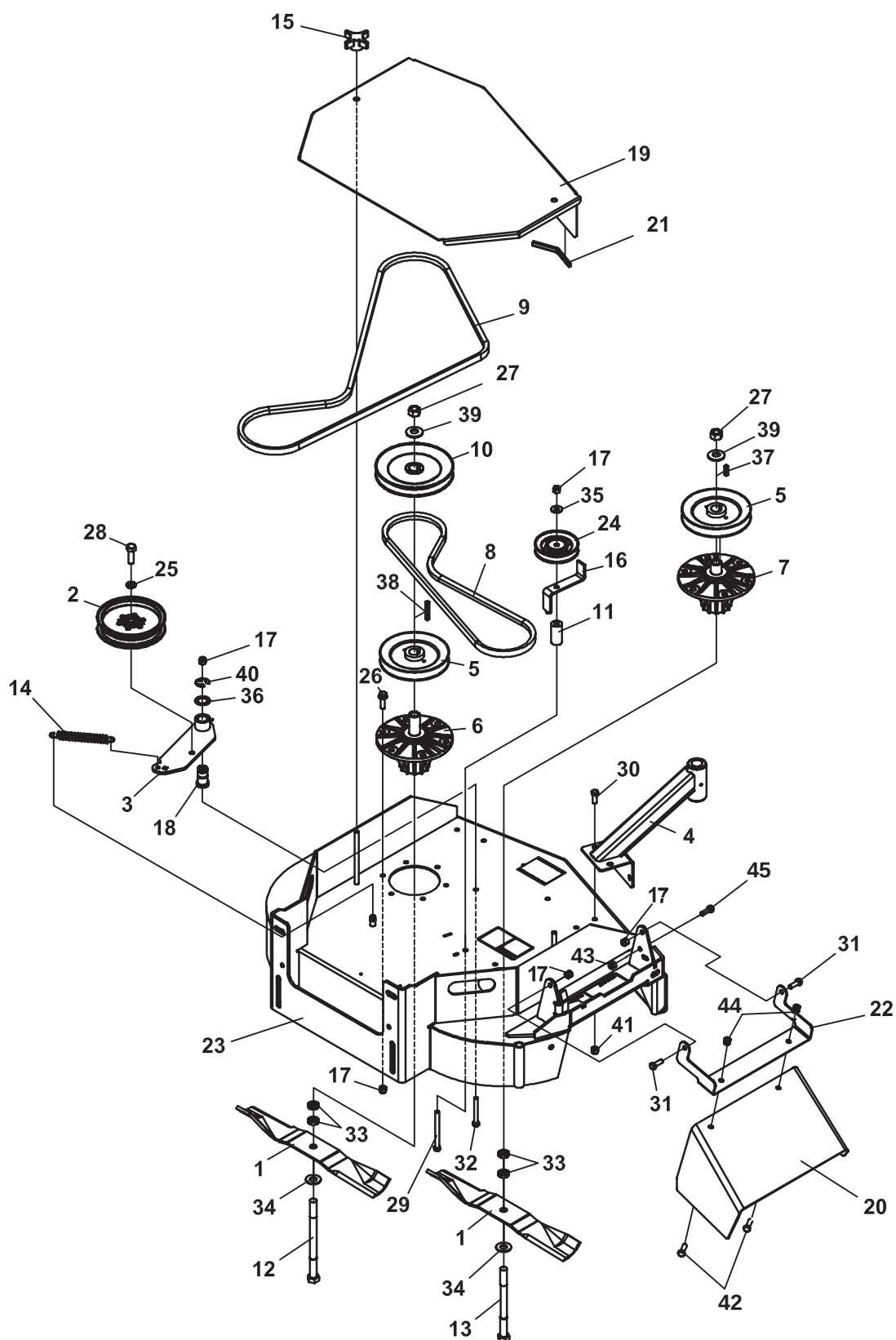


FIGURE 17

| ITEM | PART NO.  | DESCRIPTION               | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|-----------|---------------------------|-----|------|----------|-------------|-----|
| 1    | 112111-02 | BLADE 18.00 OFFST HLFT    | 2   |      |          |             |     |
| 2    | 128169    | PULLEY, IDLER 5.50        | 1   |      |          |             |     |
| 3    | 4163871.7 | WLDMT-DECK IDLER          | 1   |      |          |             |     |
| 4    | 4124108   | S CASTER SUPPORT          | 2   |      |          |             |     |
| 5    | 2308140   | PULLEY-ENGINE             | 2   |      |          |             |     |
| 6    | 2721097   | S-ASSY SPINDLE 6 LONG     | 1   |      |          |             |     |
| 7    | 2721323   | S-ASSY SPINDLE 6 SHORT    | 1   |      |          |             |     |
| 8    | 2721477   | BELT-HB 56.75             | 1   |      |          |             |     |
| 9    | 2721478   | BELT-HB 85.25             | 1   |      |          |             |     |
| 10   | 2721479   | PULLEY-6.75               | 1   |      |          |             |     |
| 11   | 2721485   | SPACER-IDLER              | 1   |      |          |             |     |
| 12   | 64123-77  | BLT-HEX 5/8-18X8 1/2      | 1   |      |          |             |     |
| 13   | 64123-265 | BLT-HEX HD 5/18-18X7 1/2  | 1   |      |          |             |     |
| 14   | 38219     | SPRING-TENSION            | 1   |      |          |             |     |
| 15   | 38524     | KNOB-4 PRONG 3/8-16       | 2   |      |          |             |     |
| 16   | 4115420.7 | GUIDE-BELT                | 1   |      |          |             |     |
| 17   | 64229-03  | LOCKNUT-NYLON 3/8-16      | 16  |      |          |             |     |
| 18   | 4116661   | PIN-PIVOT                 | 1   |      |          |             |     |
| 19   | 4119064.2 | COVER-BELT, 36 FIXED      | 1   |      |          |             |     |
| 20   | 4147115   | CHUTE-DECK, 32-54 SD      | 1   |      |          |             |     |
| 21   | 108074-13 | FLEX TRIM 44.38           | 1   |      |          |             |     |
| 22   | 4164932.7 | BRKT-CHUTE SUPPORT        | 1   |      |          |             |     |
| 23   | 4121969   | S-36SDFIXED DK W/ LABS    | 1   |      |          |             |     |
| 24   | 4135265   | PULLEY-V IDLER            | 1   |      |          |             |     |
| 25   | 64006-05  | LOCKWSHR-HELICAL 1/2      | 1   |      |          |             |     |
| 26   | 64262-012 | BLT-FLG HD 3/8-16 X 1-1/4 | 12  |      |          |             |     |
| 27   | 64025-16  | NUT-HEX 5/8-18            | 2   |      |          |             |     |
| 28   | 64123-05  | BLT-HEX 1/2-20X1-1/2      | 1   |      |          |             |     |
| 29   | 64123-139 | BOLT-3/8-16X4 HEX         | 1   |      |          |             |     |
| 30   | 64262-010 | BLT-FLG HD 3/8-16 X 3/4   | 8   |      |          |             |     |
| 31   | 64123-50  | BOLT-HEX 3/8-16X1         | 2   |      |          |             |     |
| 32   | 64123-88  | BOLT, 3/8-16X2-3/4 HEX    | 1   |      |          |             |     |
| 33   | 64163-12  | .635/.640X1.0X.25 WASH    | 4   |      |          |             |     |
| 34   | 64163-16  | WSHR-41/64X1-3/8X12GA     | 2   |      |          |             |     |
| 35   | 64163-31  | WASHER, 25/64X1X12        | 1   |      |          |             |     |
| 36   | 64163-65  | WASHER-.890X1.375X18GA    | 1   |      |          |             |     |
| 37   | 64164-12  | KEY-1/4X1/4X1 SQ END      | 1   |      |          |             |     |
| 38   | 64164-13  | 1/4X1/4X2 SQ KEY          | 1   |      |          |             |     |
| 39   | 64209-03  | SPRING WASHER.67 ID       | 2   |      |          |             |     |
| 40   | 64221-04  | E-RING.875                | 1   |      |          |             |     |
| 41   | 64141-4   | NUT-WLF 3/8-16            | 10  |      |          |             |     |
| 42   | 64139-24  | BLT-WLF 3/8-16 X 1        | 2   |      |          |             |     |
| 43   | 64141-2   | NUT-WLF 1/4-20            | 1   |      |          |             |     |
| 44   | 64268-03  | NUT-FL NYLON LOCK 3/8-16  | 2   |      |          |             |     |
| 45   | 64123-89  | BLT-HEX 1/4-20X3/4        | 1   |      |          |             |     |

FIGURE 18

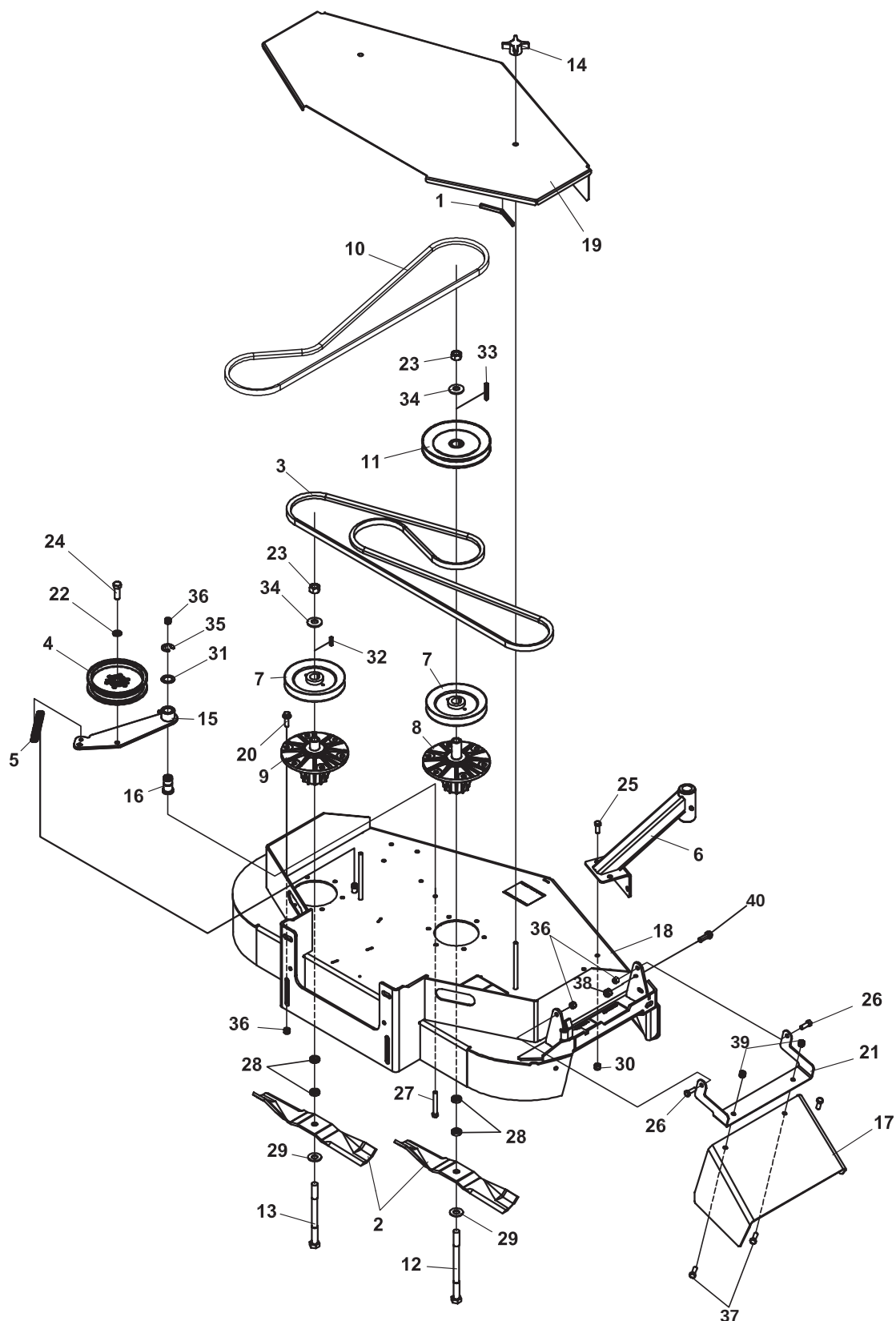


FIGURE 18

| ITEM | PART NO.  | DESCRIPTION               | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|-----------|---------------------------|-----|------|----------|-------------|-----|
| 1    | 108074-09 | S CHANNEL-FLEX TRIM 7.12  | 1   |      |          |             |     |
| 2    | 112111-01 | BLADE 16.25 OFFST HLFT    | 3   |      |          |             |     |
| 3    | 128110    | BELT-CUTTERDECK           | 1   |      |          |             |     |
| 4    | 128169    | PULLEY, IDLER 5.50        | 1   |      |          |             |     |
| 5    | 2188131   | SPRING-EXTENSION          | 1   |      |          |             |     |
| 6    | 4124108   | S CASTER SUPPORT          | 2   |      |          |             |     |
| 7    | 2308140   | PULLEY-ENGINE             | 3   |      |          |             |     |
| 8    | 2721097   | S-ASSY SPINDLE 6 LONG     | 1   |      |          |             |     |
| 9    | 2721323   | S-ASSY SPINDLE 6 SHORT    | 2   |      |          |             |     |
| 10   | 2722160   | BELT-HB 73.00             | 1   |      |          |             |     |
| 11   | 2722161   | PULLEY-6.75 EOD           | 1   |      |          |             |     |
| 12   | 64123-77  | BLT-HEX 5/8-18X8 1/2      | 1   |      |          |             |     |
| 13   | 64123-265 | BLT-HEX HD 5/18-18X7 1/2  | 2   |      |          |             |     |
| 14   | 38524     | KNOB-4 PRONG 3/8-16       | 2   |      |          |             |     |
| 15   | 4110580.7 | WLDMT-IDLER               | 1   |      |          |             |     |
| 16   | 4116661   | PIN-PIVOT                 | 1   |      |          |             |     |
| 17   | 4147115   | CHUTE-DECK, 32-54 SD      | 1   |      |          |             |     |
| 18   | 4119381   | S 48 SD FIXED DK W/LABS   | 1   |      |          |             |     |
| 19   | 4119515.2 | COVER-BELT FIXED 48       | 1   |      |          |             |     |
| 20   | 64262-012 | BLT-FLG HD 3/8-16 X 1-1/4 | 18  |      |          |             |     |
| 21   | 4164932.7 | BRKT-CHUTE SUPPORT        | 1   |      |          |             |     |
| 22   | 64006-05  | LOCKWSHR-HELICAL 1/2      | 1   |      |          |             |     |
| 23   | 64025-16  | NUT-HEX 5/8-18            | 3   |      |          |             |     |
| 24   | 64123-05  | BLT-HEX 1/2-20X1-1/2      | 1   |      |          |             |     |
| 25   | 64262-010 | BLT-FLG HD 3/8-16 X 3/4   | 8   |      |          |             |     |
| 26   | 64123-50  | BOLT-HEX 3/8-16X1         | 2   |      |          |             |     |
| 27   | 64123-88  | BOLT, 3/8-16X2-3/4 HEX    | 1   |      |          |             |     |
| 28   | 64163-12  | .635/.640X1.0X.25 WASH    | 6   |      |          |             |     |
| 29   | 64163-16  | WASHR-41/64X1, 3/8X12GA   | 3   |      |          |             |     |
| 30   | 64141-4   | NUT-WLF 3/8-16            | 10  |      |          |             |     |
| 31   | 64163-65  | WASHER-.890X1.375X18GA    | 1   |      |          |             |     |
| 32   | 64164-12  | KEY-1/4X1/4X1 SQ END      | 2   |      |          |             |     |
| 33   | 64164-13  | 1/4X1/4X2 SQ KEY          | 1   |      |          |             |     |
| 34   | 64209-03  | SPRING WASHER.67 ID       | 3   |      |          |             |     |
| 35   | 64221-04  | E-RING.875                | 1   |      |          |             |     |
| 36   | 64229-03  | LOCKNUT-NYLON 3/8-16      | 21  |      |          |             |     |
| 37   | 64139-24  | BLT-WLF 3/8-16 X 1        | 2   |      |          |             |     |
| 38   | 64141-2   | NUT-WLF 1/4-20            | 1   |      |          |             |     |
| 39   | 64268-03  | NUT-FL NYLON LOCK 3/8-16  | 2   |      |          |             |     |
| 40   | 64123-89  | BLT-HEX 1/4-20X3/4        | 1   |      |          |             |     |

FIGURE 19

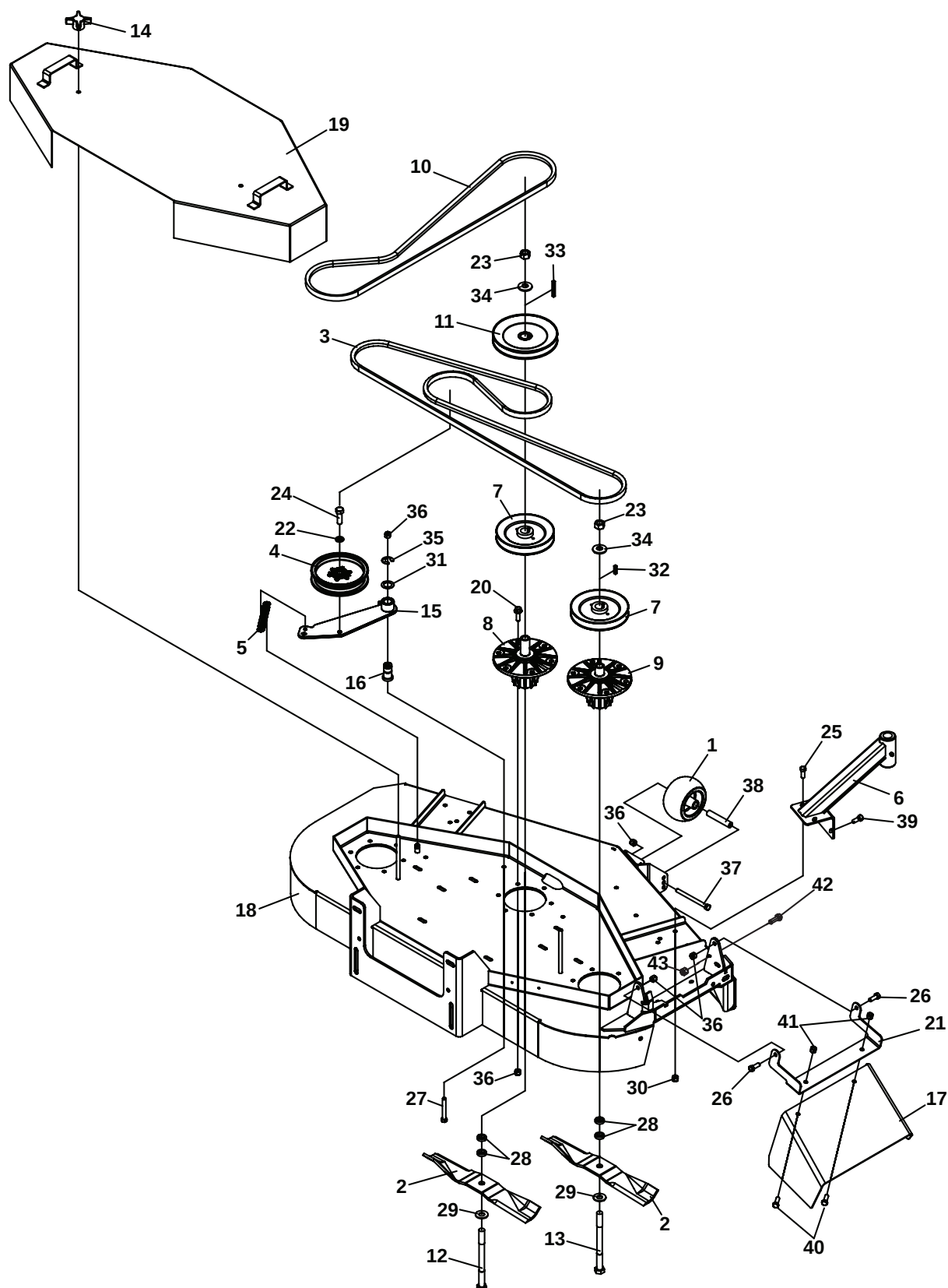
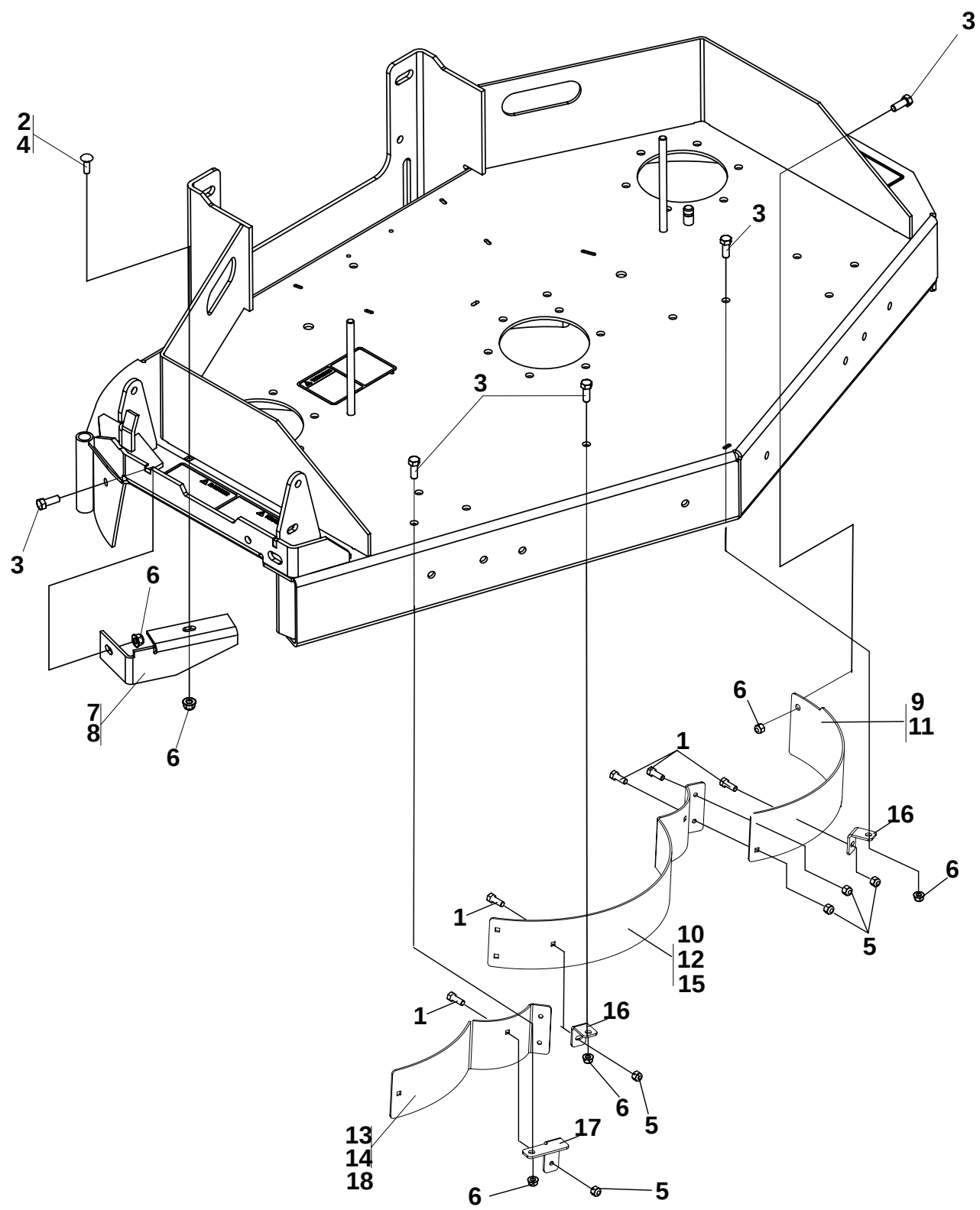


FIGURE 19

| ITEM | PART NO.  | DESCRIPTION               | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|-----------|---------------------------|-----|------|----------|-------------|-----|
| 1    | 2721512   | ROLLER-5X2.75 CENTERED    | 1   |      |          |             |     |
| 2    | 112111-02 | BLADE 18.00 OFFST HLFT    | 3   |      |          |             |     |
| 3    | 2188176   | BELT-CUTTERDECK 54        | 1   |      |          |             |     |
| 4    | 128169    | PULLEY, IDLER 5.50        | 1   |      |          |             |     |
| 5    | 2188131   | SPRING-EXTENSION          | 1   |      |          |             |     |
| 6    | 4124108   | S-CASTER SUPPORT 9 IN.    | 2   |      |          |             |     |
| 7    | 2308140   | PULLEY-ENGINE             | 3   |      |          |             |     |
| 8    | 2721097   | S-ASSY SPINDLE 6 LONG     | 1   |      |          |             |     |
| 9    | 2721323   | S-ASSY SPINDLE 6 SHORT    | 2   |      |          |             |     |
| 10   | 2722570   | BELT-HB 75.75             | 1   |      |          |             |     |
| 11   | 2722161   | PULLEY-6.75 EOD           | 1   |      |          |             |     |
| 12   | 64123-77  | BLT-HEX 5/8-18X8 1/2      | 1   |      |          |             |     |
| 13   | 64123-265 | BLT-HEX HD 5/18-18X7 1/2  | 1   |      |          |             |     |
| 14   | 38524     | KNOB-4 PRONG 3/8-16       | 2   |      |          |             |     |
| 15   | 4110580.7 | WLDMT-IDLER               | 1   |      |          |             |     |
| 16   | 4116661   | PIN-PIVOT                 | 1   |      |          |             |     |
| 17   | 4147115   | CHUTE-DECK, 32-54 SD      | 1   |      |          |             |     |
| 18   | 4128849   | S 54 SD CUT DECK W/ LABS  | 1   |      |          |             |     |
| 19   | 4129134.2 | WLDMT-COVER BELT 54       | 1   |      |          |             |     |
| 20   | 64262-012 | BLT-FLG HD 3/8-16 X 1-1/4 | 18  |      |          |             |     |
| 21   | 4164932.7 | BRKT-CHUTE SUPPORT        | 1   |      |          |             |     |
| 22   | 64006-05  | LOCKWSHR-HELICAL 1/2      | 1   |      |          |             |     |
| 23   | 64025-16  | NUT-HEX 5/8-18            | 3   |      |          |             |     |
| 24   | 64123-05  | BLT-HEX 1/2-20X1-1/2      | 1   |      |          |             |     |
| 25   | 64262-011 | BLT-FLG HD 3/8-16 X 1     | 8   |      |          |             |     |
| 26   | 64123-50  | BOLT-HEX 3/8-16X1         | 2   |      |          |             |     |
| 27   | 64123-88  | BOLT, 3/8-16X2-3/4 HEX    | 1   |      |          |             |     |
| 28   | 64163-12  | .635/.640X1.0X.25 WASH    | 6   |      |          |             |     |
| 29   | 64163-16  | WASHR-41/64X1, 3/8X12GA   | 3   |      |          |             |     |
| 30   | 64141-4   | NUT-WLF 3/8-16            | 10  |      |          |             |     |
| 31   | 64163-65  | WASHER-.890X1.375X18GA    | 1   |      |          |             |     |
| 32   | 64164-12  | KEY-1/4X1/4X1 SQ END      | 2   |      |          |             |     |
| 33   | 64164-13  | 1/4X1/4X2 SQ KEY          | 1   |      |          |             |     |
| 34   | 64209-03  | SPRING WASHER.67 ID       | 3   |      |          |             |     |
| 35   | 64221-04  | E-RING.875                | 1   |      |          |             |     |
| 36   | 64229-03  | LOCKNUT-NYLON 3/8-16      | 22  |      |          |             |     |
| 37   | 64123-173 | BLT-HEX 3/8-16X4-1/2      | 1   |      |          |             |     |
| 38   | 2720685   | SPACER-ROLLER             | 1   |      |          |             |     |
| 39   | 64139-24  | BLT-WLF 3/8-16 X 1        | 2   |      |          |             |     |
| 40   | 64141-2   | NUT-WLF 1/4-20            | 1   |      |          |             |     |
| 41   | 64268-03  | NUT-FL NYLON LOCK 3/8-16  | 2   |      |          |             |     |
| 42   | 64123-89  | BLT-HEX 1/4-20X3/4        | 1   |      |          |             |     |

FIGURE 20



### FIGURE 20

| ITEM | PART NO.  | DESCRIPTION                                                | QTY | ITEM | PART NO.  | DESCRIPTION                                      | QTY |
|------|-----------|------------------------------------------------------------|-----|------|-----------|--------------------------------------------------|-----|
| 1    | 64018-2   | BLT-CRG 1/4-20X3/4<br>(NOT USED ON 36" DECKS)              | 4   | 18   | 4134343.7 | BAFFLE-RIGHT FRONT 36<br>(USED ON 36" DECK ONLY) | 1   |
| 2    | 64018-3   | BLT-CRG 3/8-16X1<br>(NOT USED ON 48" DECKS)                | 1   |      |           |                                                  |     |
| 3    | 64123-50  | BOLT-HEX 3/8-16X1                                          | 5   |      |           |                                                  |     |
| 4    | 64262-012 | BLT-FLG HD 3/8-16 X 1-1/4<br>QTY USED ON 48" DECK          | 1   |      |           |                                                  |     |
| 5    | 64229-01  | LOCKNUT-1/4-20 NYLON<br>(NOT USED ON 48" & 54" DECKS)      | 6   |      |           |                                                  |     |
| 6    | 64268-03  | NUT-FL NYLON LOCK 3/8-16<br>USED ON 36" DECK ONLY          | 6   |      |           |                                                  |     |
| 7    | 4115864.7 | BAFFLE-DISCHARGE<br>(USED ON 36", 54" DECK)                | 1   |      |           |                                                  |     |
| 8    | 4120208.7 | BAFFLE-DISCHARGE 32-48<br>(USED ON 48" DECKS ONLY)         | 1   |      |           |                                                  |     |
| 9    | 4165971.7 | BAFFLE-48 FRONT LH<br>(USED ON 48" DECKS ONLY)             | 1   |      |           |                                                  |     |
| 10   | 4165972.7 | BAFFLE-FRONT CTR<br>(USE ON 48" DECKS ONLY)                | 1   |      |           |                                                  |     |
| 11   | 4165965.7 | BAFFLE-FRONT LH<br>(USED ON 54" DECKS ONLY)                | 1   |      |           |                                                  |     |
| 12   | 4165966.7 | BAFFLE-FRONT CTR<br>(USED ON 54" DECKS ONLY)               | 1   |      |           |                                                  |     |
| 13   | 4168516.7 | BAFFLE-RIGHT FRONT<br>(USED ON 54" DECKS ONLY)             | 1   |      |           |                                                  |     |
| 14   | 4165973.7 | BAFFLE-RIGHT FRONT<br>(USED ON 48" DECKS ONLY)             | 1   |      |           |                                                  |     |
| 15   | 4147035.7 | BAFFLE-FRONT DECK<br>(USED ON 36" DECKS ONLY)              | 1   |      |           |                                                  |     |
| 16   | 4168523.2 | MOUNT-BAFFLE<br>(QTY 3 ON 48" DECK)<br>(QTY 2 ON 54" DECK) |     |      |           |                                                  |     |
| 17   | 4168515.2 | MOUNT-BAFFLE<br>(USED ON 54" DECK)                         | 1   |      |           |                                                  |     |

FIGURE 21

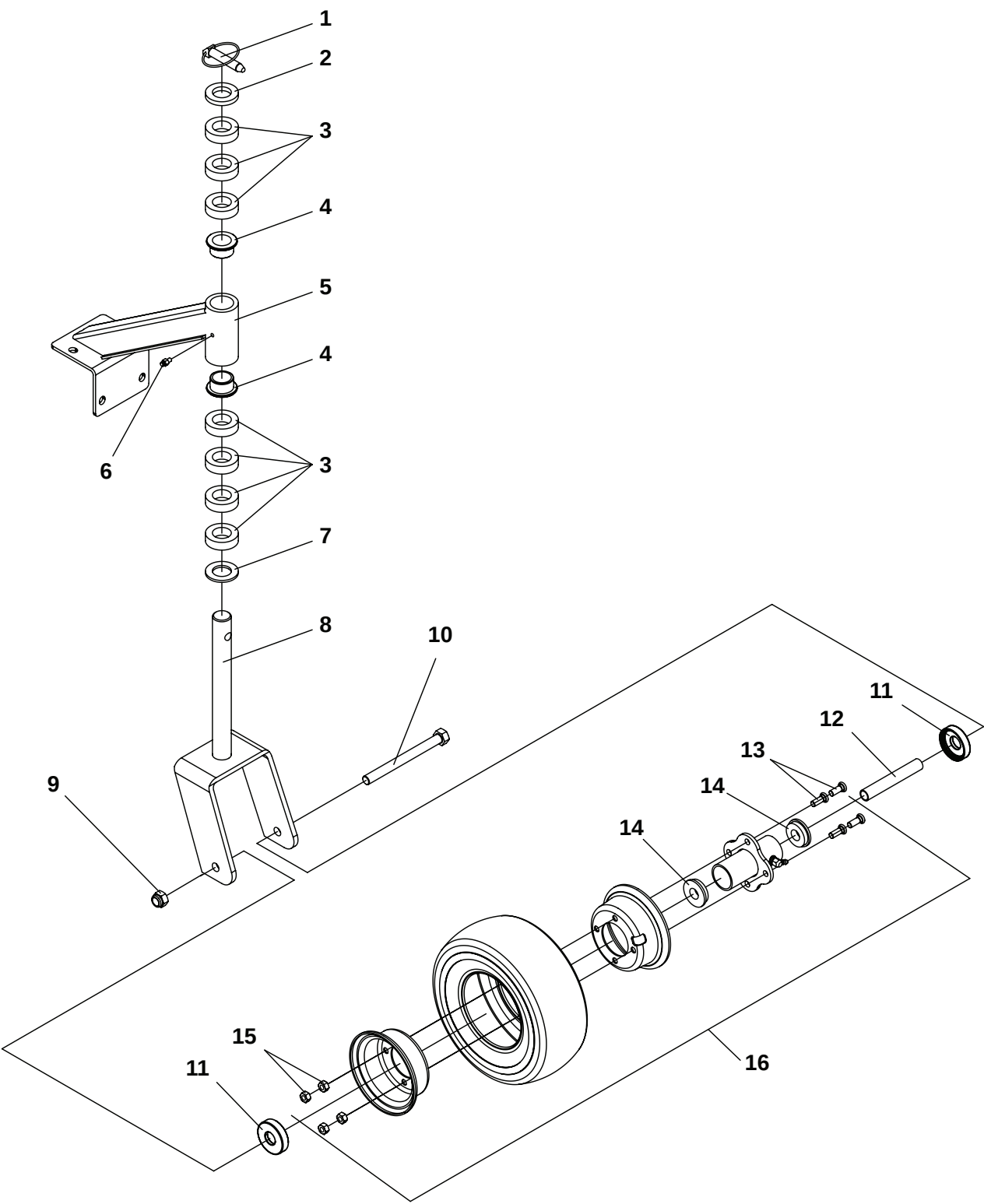


FIGURE 21

| ITEM | PART NO.   | DESCRIPTION                                 | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|------------|---------------------------------------------|-----|------|----------|-------------|-----|
|      | 4124110    | ASSY-CASTER 9IN BOBCAT                      | 2   |      |          |             |     |
|      |            | (INCLUDES ITEMS 1-3, 7-12 & 16 QTYs LISTED) |     |      |          |             |     |
|      |            | (NOTE 2 ASSYS REQUIRED PER MACHINE)         |     |      |          |             |     |
| 1    | 64173-04   | QUICK PIN                                   | 1   |      |          |             |     |
| 2    | 64163-07   | 1-1/32X1-3/4X1/4 WASH                       | 1   |      |          |             |     |
| 3    | 64163-22   | 1-1/32X1-3/4X1/2 WASHR                      | 7   |      |          |             |     |
| 4    | 4129801    | BUSHING-FLANGED                             | 2   |      |          |             |     |
| 5    | 4124108    | S CASTER SUPPORT                            | 1   |      |          |             |     |
|      |            | (INCLUDES ITEMS 4 & 6, QTYs LISTED)         |     |      |          |             |     |
| 6    | 85010N     | ZERK GREASE FITTING                         | 1   |      |          |             |     |
| 7    | 64163-84   | WSHR-1.015 X 1.75 X .125                    | 1   |      |          |             |     |
| 8    | 2721484.7  | WLDMT-CASTER YOKE                           | 1   |      |          |             |     |
| 9    | 64229-05   | LOCKNUT-NYLON 1/2-13                        | 1   |      |          |             |     |
| 10   | 64123-166  | BLT-HEX 1/2-13X5-1/2                        | 1   |      |          |             |     |
| 11   | 2722591    | SPACER-3/4 INCH BRG                         | 2   |      |          |             |     |
| 12   | 2722230-04 | SPANNER                                     | 1   |      |          |             |     |
| 13   | 64123-01   | BLT-HEX 5/16-24X3/4                         | 4   |      |          |             |     |
| 14   | 2722682    | BEARING-9" WHEEL                            | 2   |      |          |             |     |
| 15   | 4165543    | ASSY-9" WHEEL                               | 1   |      |          |             |     |
|      |            | (INCLUDES ITEM 17)                          |     |      |          |             |     |
| 17*  | 4165543-01 | S-WHEEL HUB ASSY                            | 1   |      |          |             |     |
|      |            | (INCLUDES ITEMS 13-15 AND HUB ASSY)         |     |      |          |             |     |

\* NOT ILLUSTRATED

FIGURE 22

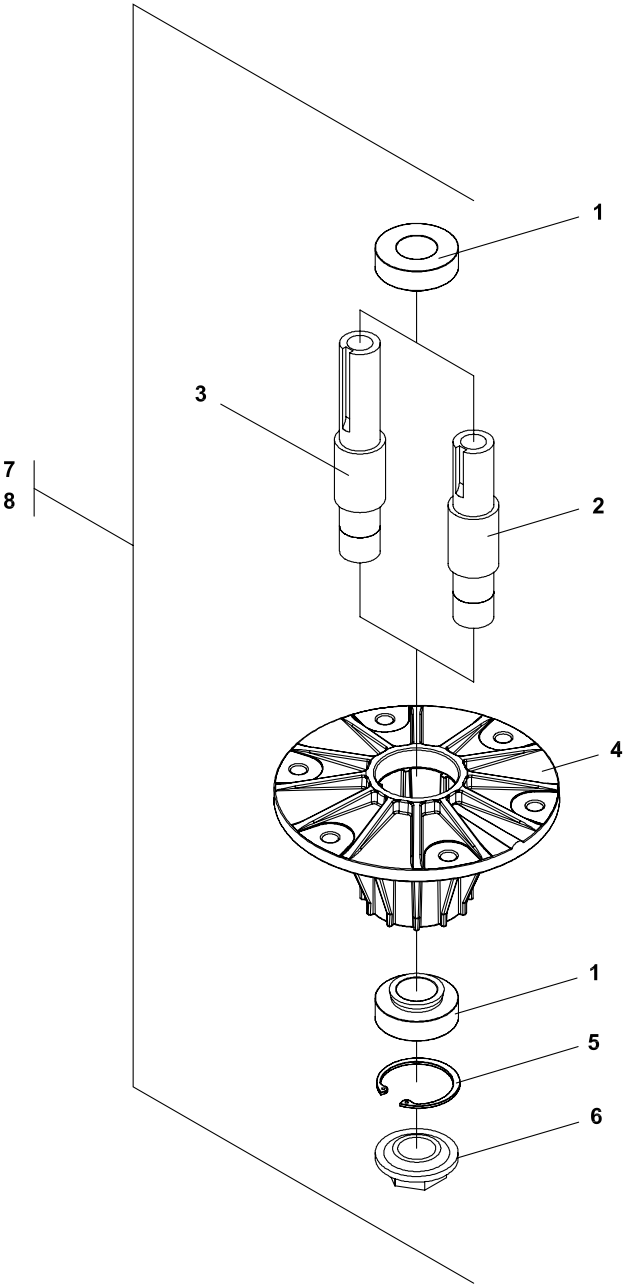


FIGURE 22

| ITEM | PART NO. | DESCRIPTION                                      | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|--------------------------------------------------|-----|------|----------|-------------|-----|
| 1    | 38348-01 | BEARING-SPINDLE SEALED                           | 2   |      |          |             |     |
| 2    | 33179-02 | SPINDLE-SHORT<br>(USED IN ITEM 8)                | 1   |      |          |             |     |
| 3    | 33179-01 | SPINDLE-LONG<br>(USED IN ITEM 7)                 | 1   |      |          |             |     |
| 4    | 2721096  | HOUSING-SPINDLE 6 HOLE                           | 1   |      |          |             |     |
| 5    | 64144-38 | SNAP-RING                                        | 1   |      |          |             |     |
| 6    | 38315    | NUT-SPINDLE                                      | 1   |      |          |             |     |
| 7    | 2721097  | ASSY-SPINDLE LONG<br>(INCLUDES ITEMS 1, 3, 4-6)  | 1   |      |          |             |     |
| 8    | 2721323  | ASSY-SPINDLE SHORT<br>(INCLUDES ITEMS 1, 2, 4-6) | 1   |      |          |             |     |

FIGURE 23

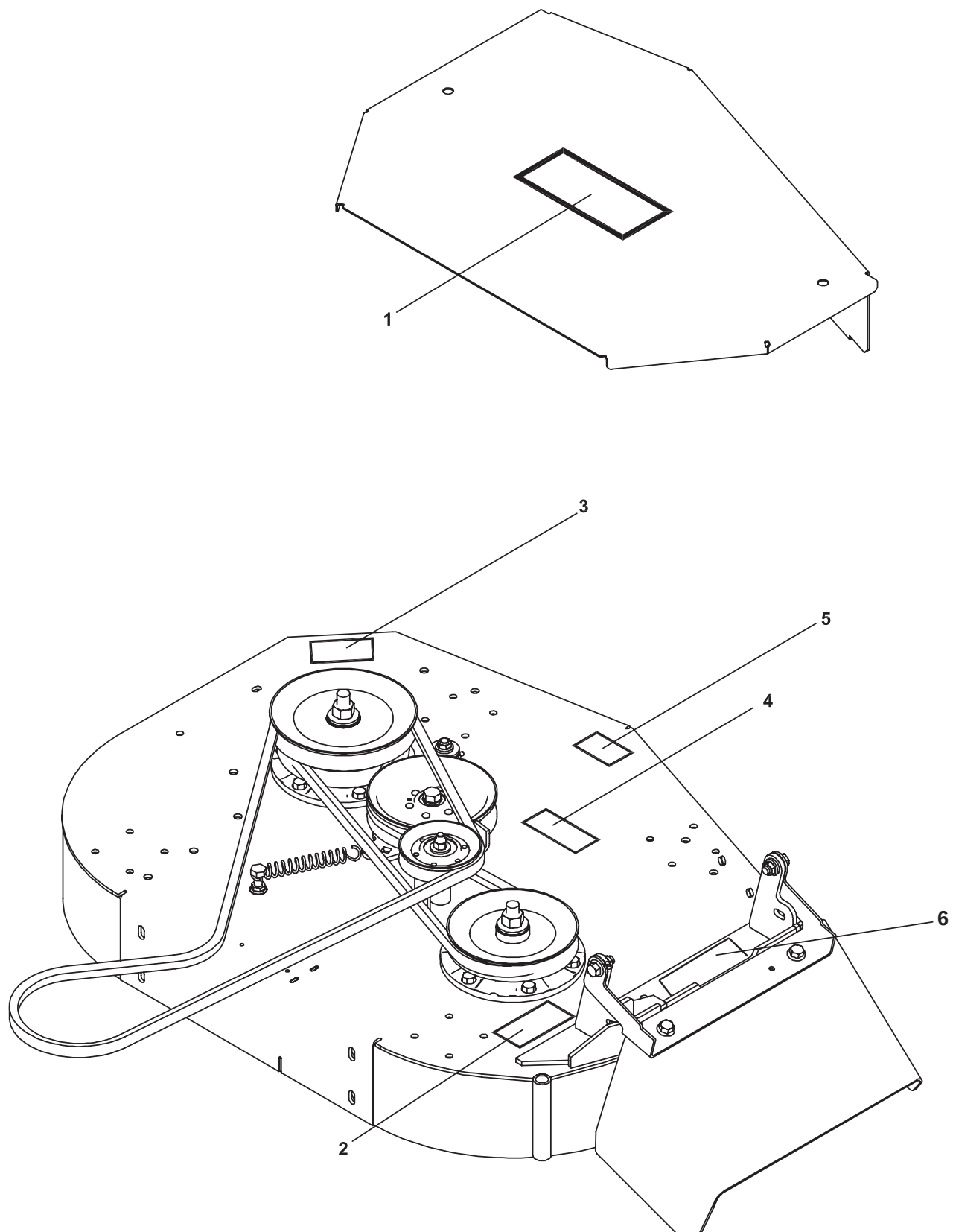


FIGURE 23

| ITEM | PART NO. | DESCRIPTION            | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|------------------------|-----|------|----------|-------------|-----|
| 1    | 4158401  | LABEL-BOBCAT, LARGE    | 1   |      |          |             |     |
| 2    | 2000677  | LABEL-DANGER/WARNING   | 1   |      |          |             |     |
| 3    | 2000572  | LABEL-WARNING BLADES   | 1   |      |          |             |     |
| 4    | 2000678  | LABEL-ROT PARTS/B-WSHR | 1   |      |          |             |     |
|      |          | QTY FOR 36" DECK       | 1   |      |          |             |     |
|      |          | QTY FOR 48", 54" DECK  | 2   |      |          |             |     |
| 5    | 4116761  | LABEL-MADE IN USA      | 1   |      |          |             |     |
| 6    | 4164269  | LABEL-ROTATING BLADES  | 1   |      |          |             |     |

FIGURE 24

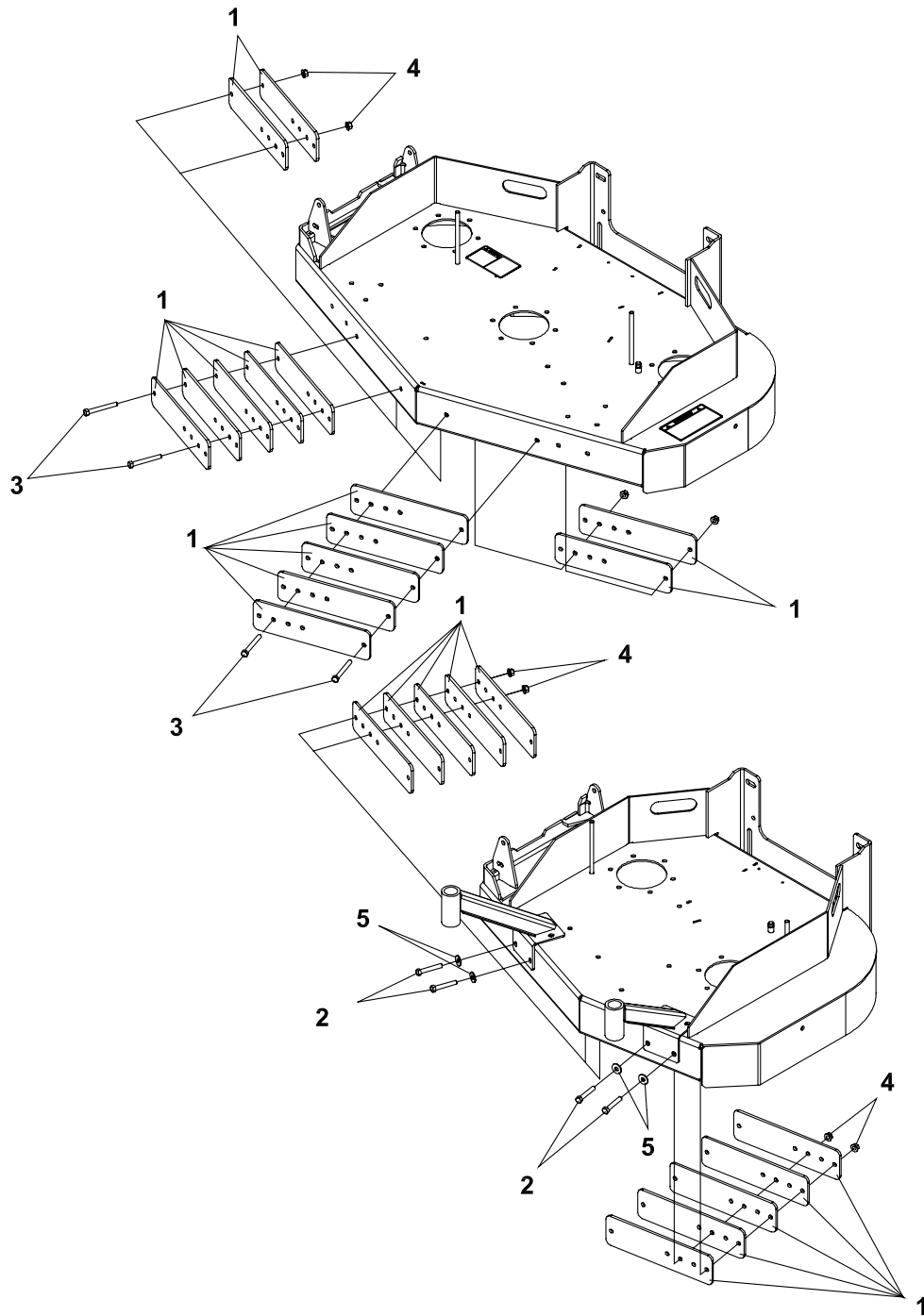


FIGURE 24

| ITEM | PART NO.  | DESCRIPTION                                                        | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|-----------|--------------------------------------------------------------------|-----|------|----------|-------------|-----|
| 1    | 4162891.7 | WEIGHT<br>(QTY 10 USED ON 36" DECKS)<br>(QTY 14 USED ON 48" DECKS) |     |      |          |             |     |
| 2    | 64123-100 | BOLT-3/8-16X2-1/4 HEX<br>(USED ON 36" DECKS ONLY)                  | 4   |      |          |             |     |
| 3    | 64123-75  | BOLT, 3/8-16X3 HEX<br>(USED ON 48" DECKS ONLY)                     | 4   |      |          |             |     |
| 4    | 64141-4   | NUT-WLF 3/8-16                                                     | 8   |      |          |             |     |
| 5    | 64163-31  | WASHER, 25/64X1X12<br>(USED ON 36" DECKS ONLY)                     | 4   |      |          |             |     |

**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)**



©Schiller Grounds Care, Inc. 2010