



MODELS:
933007CA

FS481V KAWASAKI 36" CLASSIC PRO

PARTS MANUAL

MAN 4171135
Rev. A 10-2014



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 Proposición 65

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

⚠ ADVERTENCIA

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

CALIFORNIA

Proposition 65 Warning

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

IMPORTANT MESSAGE

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

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

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

See a 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

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NOTICE !!!

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

Schiller Grounds Care, Inc. strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Schiller Grounds Care, Inc.'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
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MODEL NUMBER

SERIAL NUMBER

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

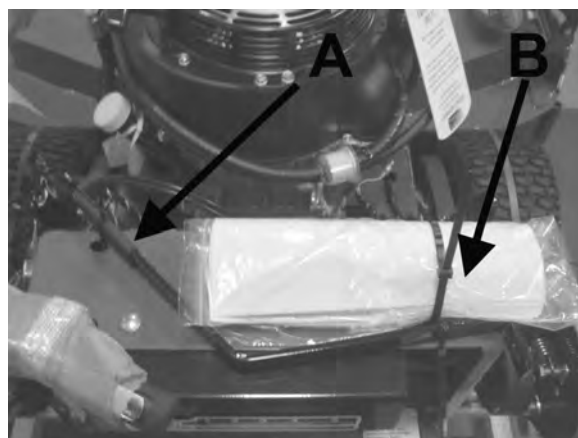
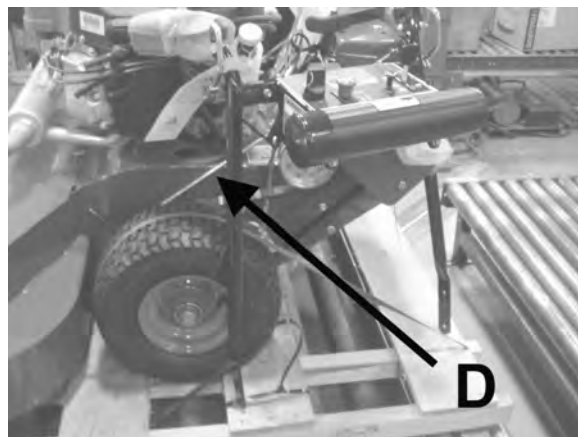
SERIAL NUMBER: This number appears only on your mower. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information.

Located on the right hand side of the engine deck face up.

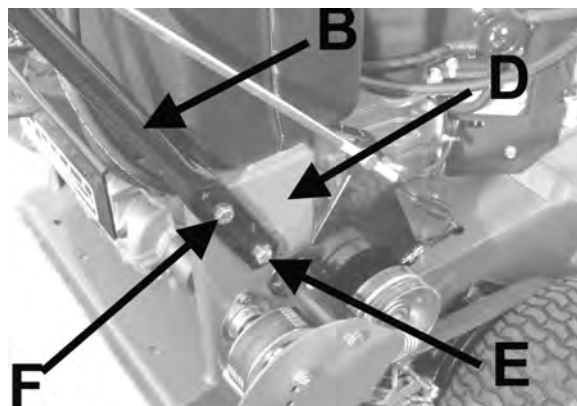
NOTE: FRONT, REAR, RIGHT HAND AND LEFT HAND REFERENCES BELOW ARE WITH RESPECT TO AN OPERATOR AT THE CONTROLS.

1. **UNCRATE** - Discard the sides and top of the crate. Remove the loose parts from the crate. Discard the rest of the packing material.

2. Remove all tie wraps and banding. Remove traction control rods **D**, gear shift lever **A** and parts bag **B**. Set aside for later use. Remove fuel tank from the crate.



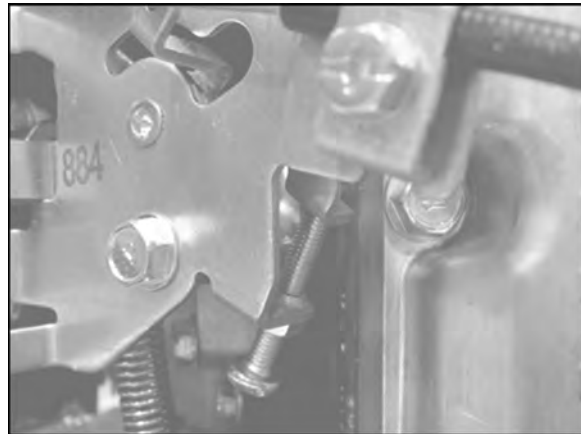
3. Install upper handle **B** to lower handle **D** using (2) 3/8-16 X 1" bolts and (2) 3/8-16 nylon lock nuts through upper holes **F** and also installing (2) 3/8-16 X 1" bolts and (2) 3/8-16 Inylon lock nuts through holes **E** in the upper handle and one of the three holes available to give the desired handle height.



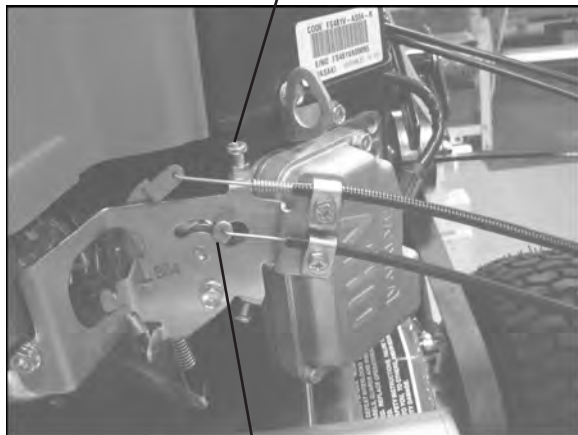
4. After installing handles, make sure to check the throttle and choke setting are correct.

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.

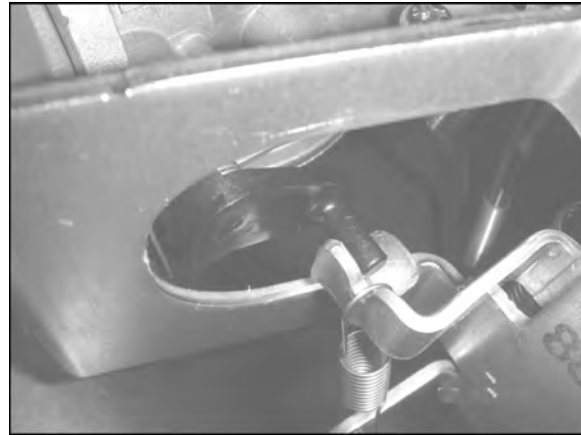


HIGH IDLE STOP



LOW IDLE STOP

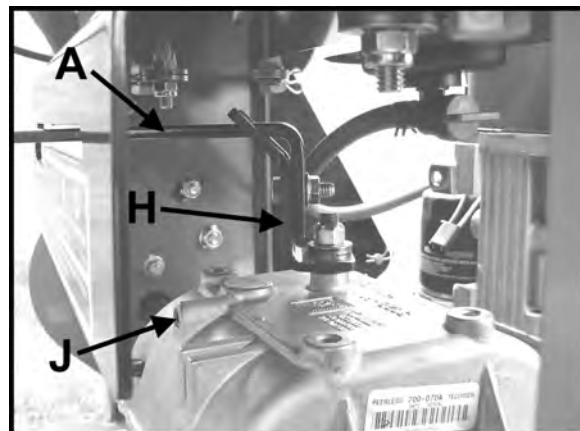
HIGH IDLE STOP



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

5. Attach gear shift lever **A** removed in Step 2 to the lower shift arm **H** using (1) 5/16-18x1 bolt and (1) 5/16-18 whizlock nut. Shift the lever to the neutral position and verify that the lever is centered in the slot. If not, loosen the bolt and reposition lever. Retighten bolt.

GEARBOX ADJUSTMENT NOTE: The detents between gears and at neutral may be made more positive by turning set screw **J** clockwise. Do not turn set screw more than two turns below flush with the housing.

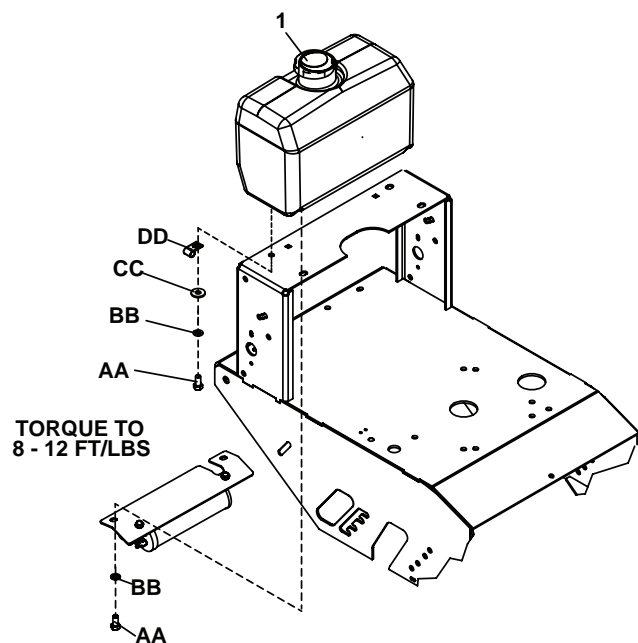
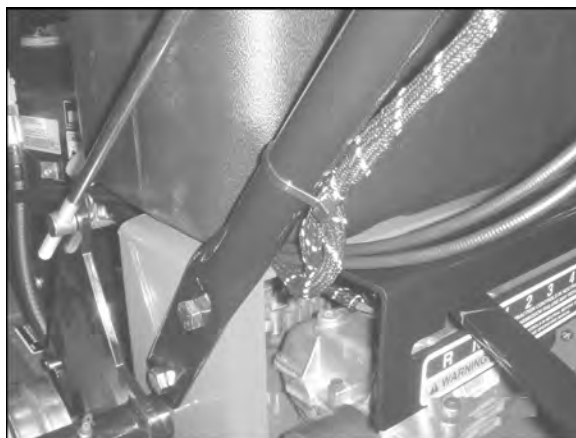
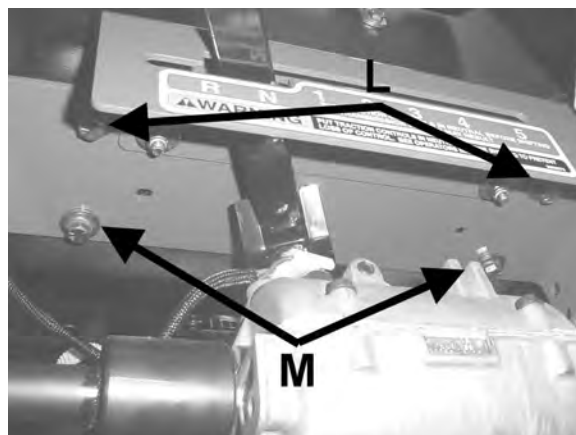
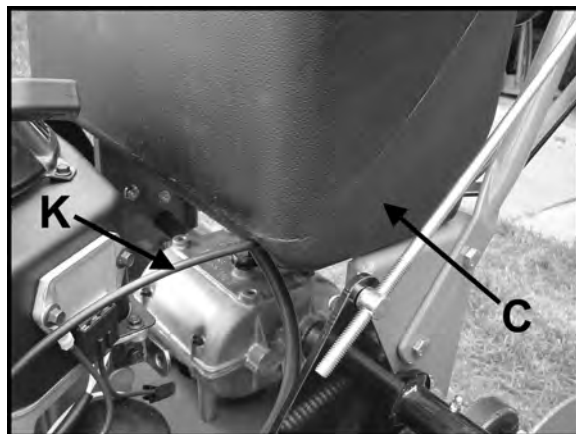


6. Route the throttle cable **K** across the top left side of the lower handle under the fuel tank **C**.

NOTE: Route the wiring harness on the left side, under the tank recessed area. Verify bolts are 3/4" long. Any longer bolt will damage the tank.

7. Remove the carb canister from the lower handle and discard the hardware. Using two bolts **AA** and two lockwashers **BB** reattach the carb canister and mounting bracket under the top of the lower handle and the fuel tank to the top of the lower handle at location **M**. Bolt rear of the fuel tank to lower handle using two bolts **AA**, two lockwashers **BB**, two washers **CC** and one cable clip **DD** (on the right side) at location **L**. Torque to 8-12ft./lbs.

NOTE: Tighten all fuel tank bolts firmly but do not overtighten or damage to the fuel tank may result.



8. **TANK P/N 4165561:** Connect the fuel line F1 from the engine fuel line to the pick-up fitting on the back of the tank. Connect the purge fuel line, F2, from the purge port on the carb canister to the vent at the top of the tank as shown in Figure 1.

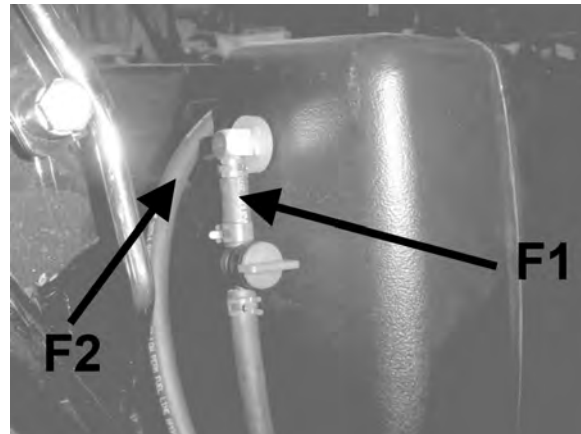


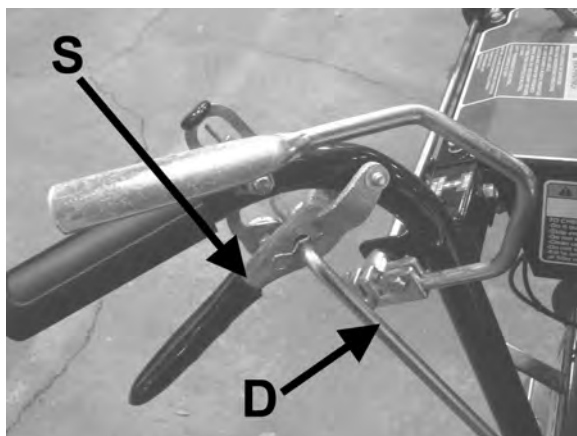
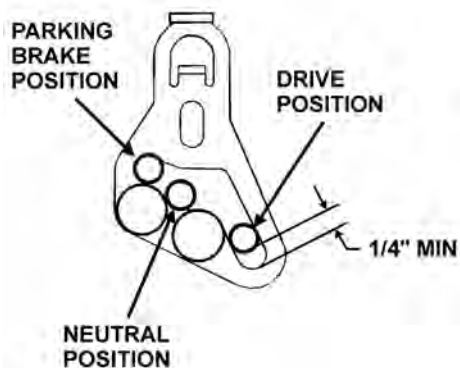
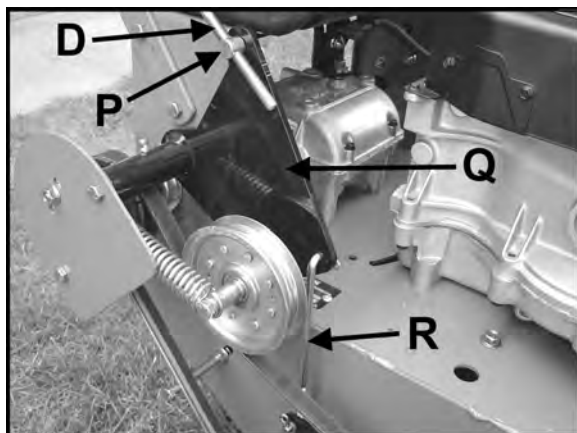
FIGURE 1

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



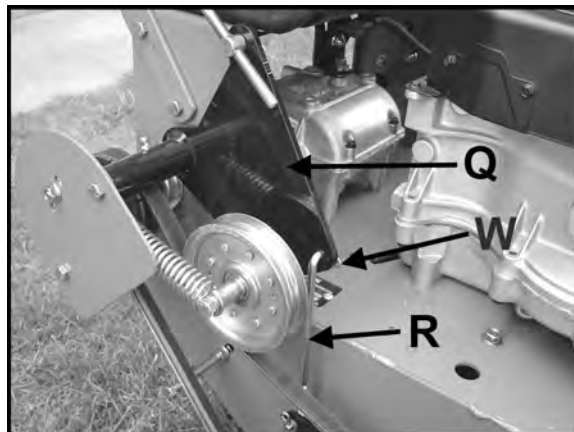
10. Attach traction control rods **D** by inserting the swivel **P** through the upper hole in the bellcranks **Q** and the other end of the traction control rods through the traction control lever **S** on the handlebar. Secure with washers and hairpins, with the washers to the inside.

11. To adjust traction control rods, remove the traction control rod swivel **P** and the brake rod **R** from the bellcrank **Q** and adjust swivel up or down the control rod so that once reinstalled there is a 1/4" (6.35mm) gap between the bottom of the rod and the bottom of the traction lock with the traction lock pushed down in the drive position, shown below.



12. To adjust the brakes, remove the brake rod **R** from the bottom of bellcrank **Q** and set the traction control lever in the neutral position. Adjust the brake rod by turning it in or out of the swivel **W** in the brake arm until it just goes into the hole on the bellcrank. Secure with hairpin.

NOTE: The machine should not move with the traction control levers in the parking brake position. If machine moves in the parking brake position, readjust brake rod length. Verify that machine can be moved easily when the traction control levers are placed in the neutral position.



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

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

⚠ WARNING 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.

15. Adjust tire pressure in drive wheels and casters to 14 psi (96 kPa).

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

17. Verify that the safety circuits work 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.

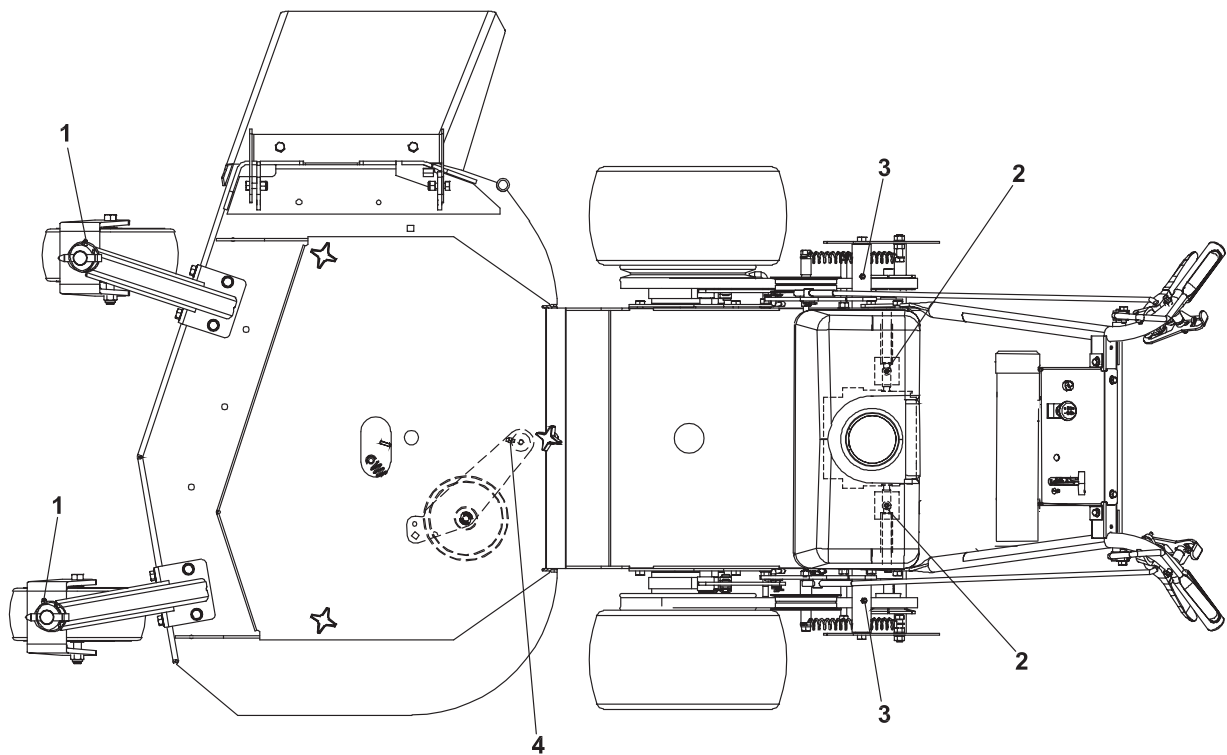
⚠ WARNING

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

MACHINE LUBRICATION

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

- 1) Caster wheel pivots (2 points)
- 2) Shaft Couplers (2 points)
- 3) Drive Wheel Bellcranks (2 points)
- 4) Idler pivot bearing



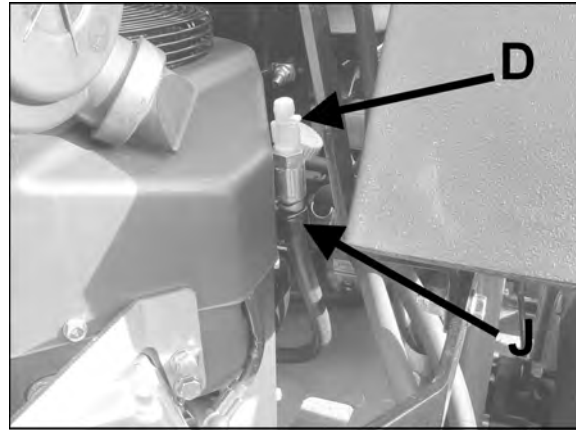
ENGINE OIL

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. Compressed air may be used to clean the intake.

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.

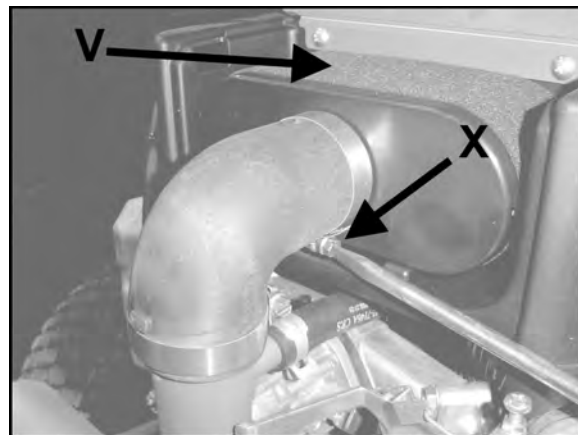
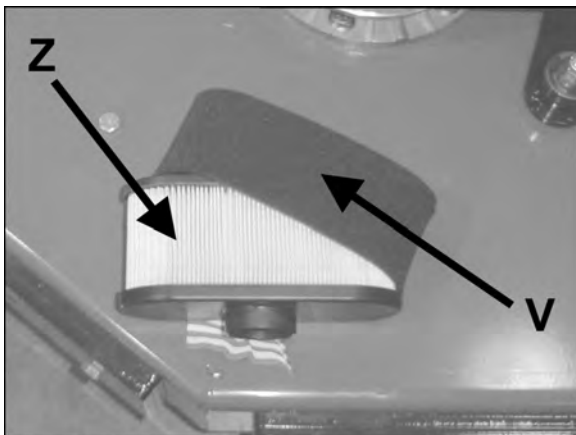
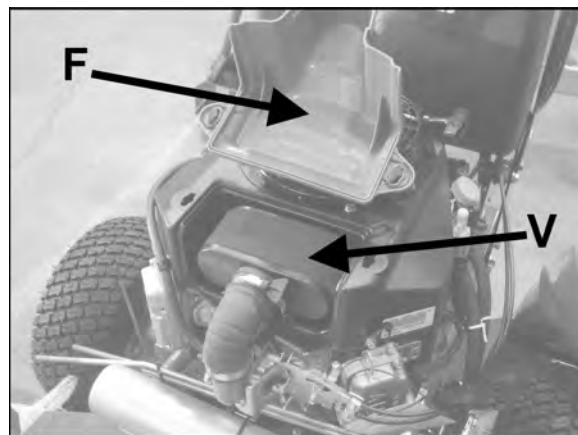
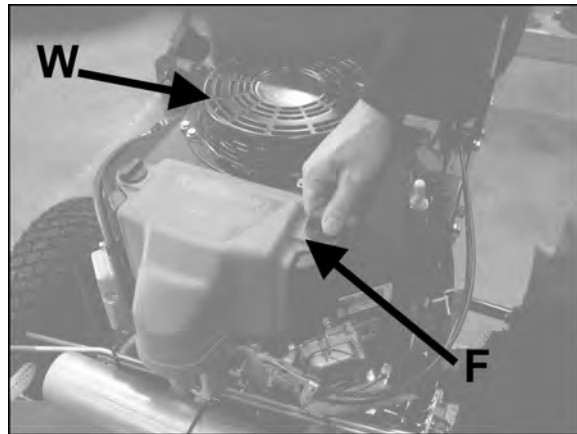
Clean and re-oil precleaner element every 25 hours (more often under dusty conditions).

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**.



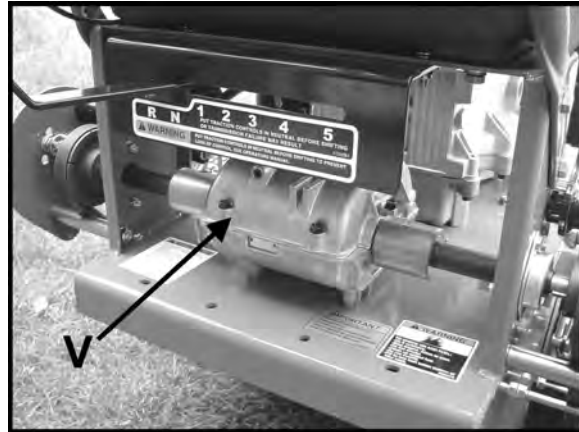
GEARBOX

Check every 500 hours to ensure proper lubrication. 12 oz. is capacity of gearbox.

To check level:

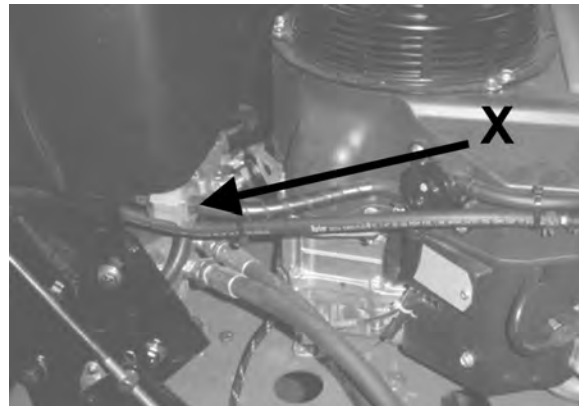
Remove top cover **V**, 12 oz. of grease will fill 1/3-1/2 of the bottom 1/2 of gearbox. Only add Bentonite grease-available from your Peerless dealer.

If you are not comfortable with the steps above, contact your BOB-CAT dealer.



INLINE FUEL FILTER

When required, the fuel filter **X** may be replaced. See the Parts Section for service part numbers.



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.

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.

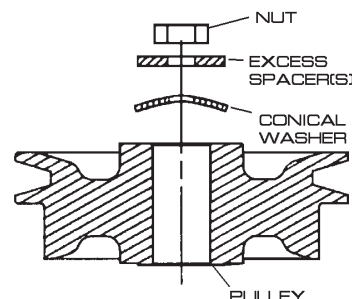
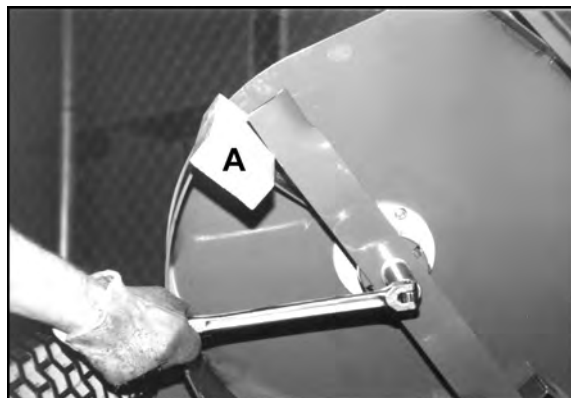
NOTE:

- 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 location **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.

SERVICE CHART

**Classic
Pro**

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
ENGINE						
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*				
Check Fuel Filter				X		
Replace/Adjust Spark Plug	SEE ENGINE MANUFACTURER'S MANUAL					
GEARBOX						
Check Oil Level						X
MACHINE						
Check Tire Pressures		X				
Check Belt Tensions	CHECK AFTER FIRST 1/2 HR AND AFTER FIRST 4 HRS			X		
Lubricate All Points				X		

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

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NOTE: After first 5 hours of operation replace engine oil and filters.

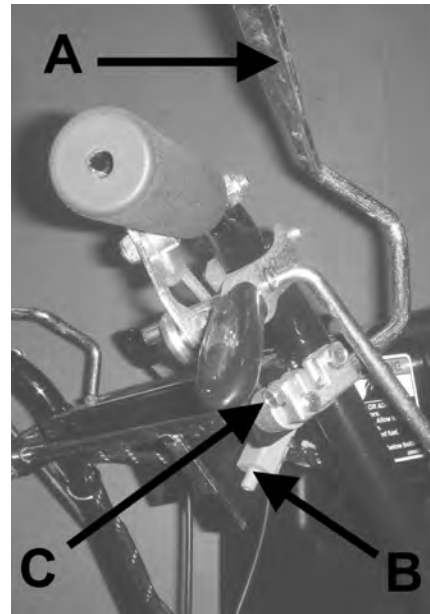
Make all adjustments with the engine shut off, spark plug wire disconnected and mower drive disengaged.

OPERATOR PRESENT CONTROL LEVERS

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

TO ADJUST:

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



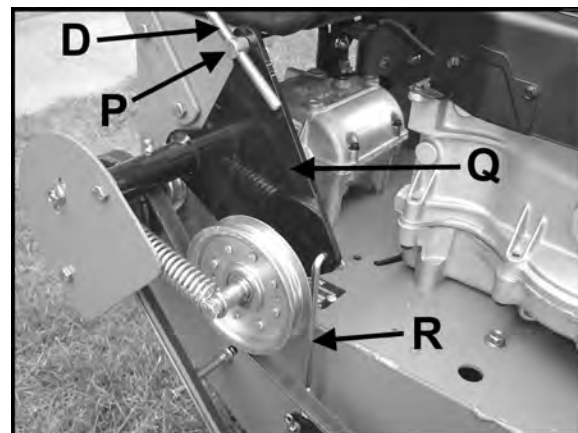
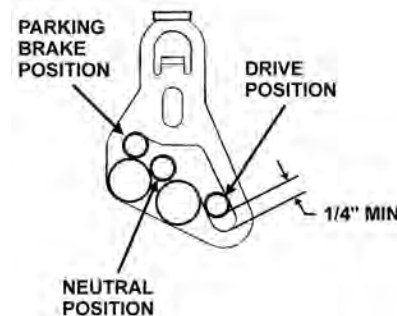
TRACTION RODS AND WHEEL BELT TENSION

There should be a 1/4" minimum gap between the traction control rod and the bottom of the drive slot when the drive is engaged and the traction control lever is pushed down. If there is no gap the rod will hold the wheel belt idler up and the belt may slip. Too much gap makes it difficult to get adequate braking and free-wheeling neutral when traction locks are in the neutral position. The gap may be increased from 1/4" as long as the machine will free wheel in neutral. Increasing the gap reduces the reach to the traction lever.

TO ADJUST:

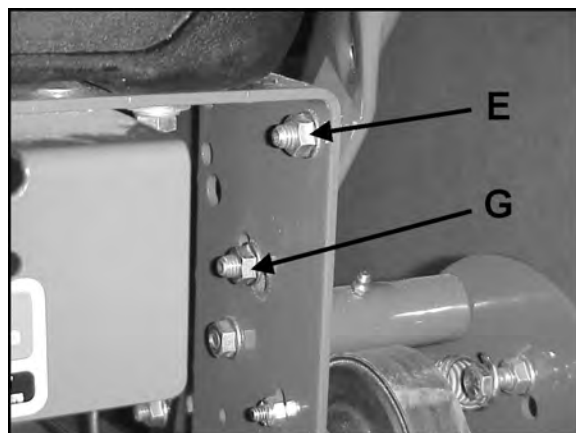
1. Disconnect the brake rod **R** with the traction control lever in the drive position.
2. Remove hairpin cotter from the swivel **P** on the traction control rod **D**.
3. Lift out the rod and turn the swivel in or out obtain a 1/4" gap on the traction control lever in the drive position.
4. Refit the swivel to the idler bellcrank **Q** and replace the hairpin cotter.
5. Check the gap with traction control lever pressed down in the drive position. If it is still not 1/4", repeat the procedure until an approximate 1/4" gap is obtained.

6. Reconnect the brake rod. (See Traction Brake section).



UPPER HANDLE HEIGHT ADJUSTMENT

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

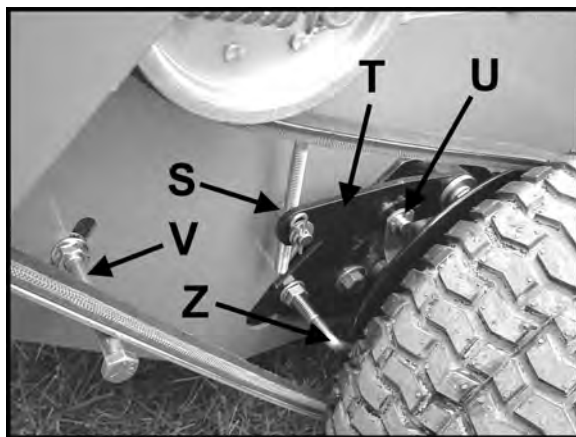
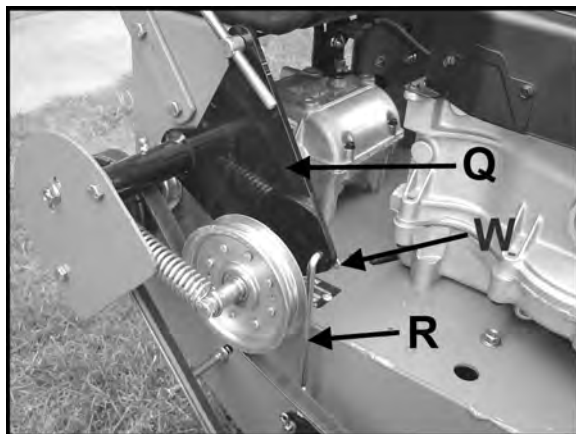


TRACTION BRAKES/PARKING BRAKES

With the traction control rods properly adjusted, apply both parking brakes and try to push the machine forward. If one or both wheels rotate, adjust the corresponding brake(s).

TO ADJUST:

1. Set the traction control lever in the neutral position.
2. Remove the hairpin cotter **W** from the brake rod **R** on idler bellcrank **Q**.
3. Adjust the brake rod by turning it in or out of the swivel pin on the brake arm until it just goes into the bellcrank hole.
4. Reassemble the brake rod to the bellcrank.
5. Check the adjustment. **DO NOT OVER ADJUST.** If necessary, repeat the procedure until the correct adjustment is achieved.
6. If adequate adjustment can not be achieved with the brake rod, the links **U** between the brake arm **T** and brake band may be moved to a different hole in the brake arm.
7. Adjust belt guide **V** to remove any sag in the drive belt between the drive pulley and the wheel pulley.



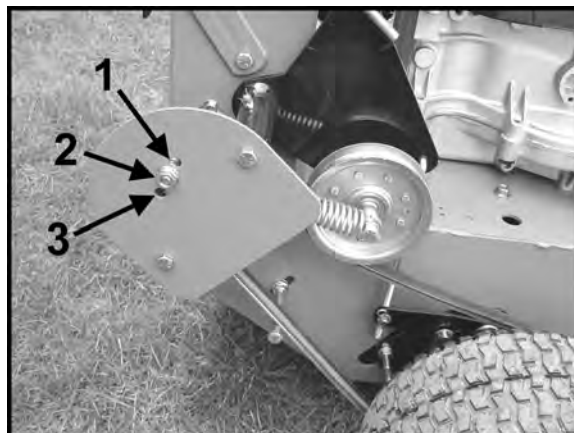
When the brakes are properly adjusted the machine can be freely maneuvered with the traction control levers in the neutral position. If not, the brakes have been over-adjusted and have to be backed off.

NOTE: Clean inner groove of wheel drive pulley and belt daily for better drive and neutral. Accumulation of grass, mud or other debris in pulley groove can affect declutching. Set mud scraper **Z** at each wheel drive pulley to angle down to catch debris.

DRIVE BELT TENSION ADJUSTMENT

Drive belt tension can be adjusted to one of three settings to account for various mowing conditions.

1. Adjust by moving the spring anchor bolt to position 1, 2 or 3.
 - Position 1 will provide the least amount of hand effort and wheel traction.
 - Position 3 will provide the highest amount of hand effort and wheel traction.



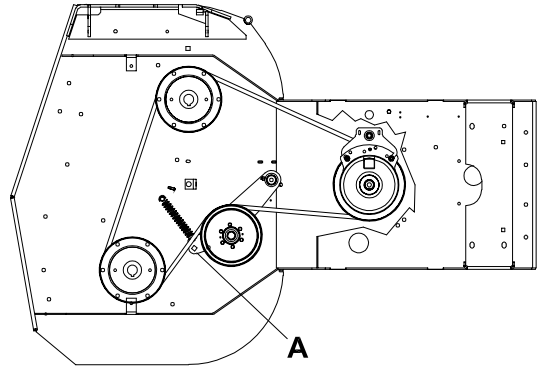
TIRE PRESSURE ADJUSTMENT

Tire pressures should be maintained at 14 psi (96 kPa).

NOTE: Adjusting tire pressure between 10 psi (69 kPa) and 28 psi (193 kPa) can improve tracking. Increase pressure on the side the machine tracks toward and decrease it on the other side.

36" CUTTERDECK PTO BELT

1. Rotate idler arm **A** counterclockwise using a 3/8" ratchet or breaker bar and remove belt.
2. Install belt as shown.

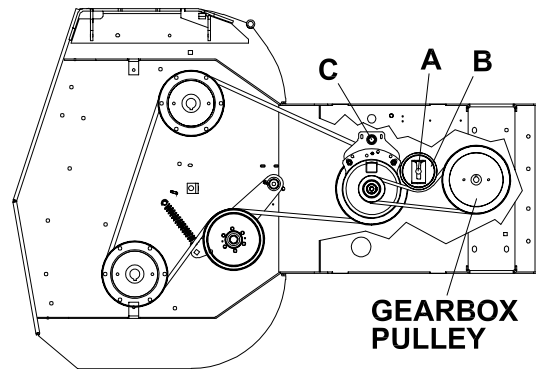


BELT REPLACEMENT

GEARBOX-DRIVE BELT

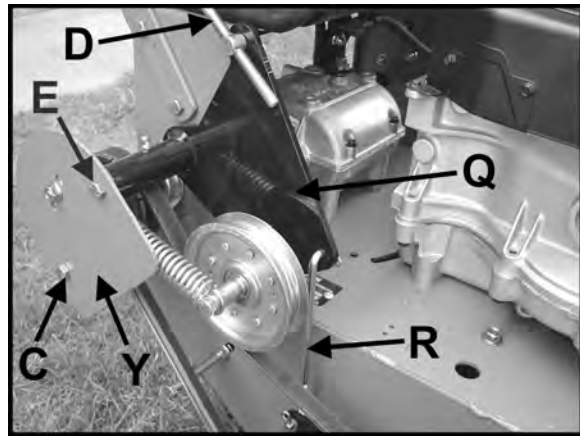
1. Loosen nut on carriage bolt **A**.
2. Slide idler pulley **B** away from belt.
3. Unbolt clutch stop pin **C**.
4. Remove PTO belt.
5. Remove gearbox drive belt.
6. Replace by following steps in reverse order.

NOTE: Push idler pulley B toward gearbox drive belt until gearbox drive belt is snug.



WHEEL-DRIVE BELT

Remove brake rod **R** and traction control rod **D** from bellcrank **Q**. Remove bottom bolt **C** and spacer from fender **Y** and loosen the bolt **E** that holds bellcrank. Rotate bellcrank and idler up and out of the way. The wheel drive belt will be slack enough to be removed from its pulleys and passed over the drive wheel. Replace in the reverse order, readjust traction control rod and brake rod. (Also see Traction Rods and Wheel Belt Tension in ADJUSTMENTS section.)



PARTS SECTION

ENGINE DECK ASSEMBLY

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FIGURE 1

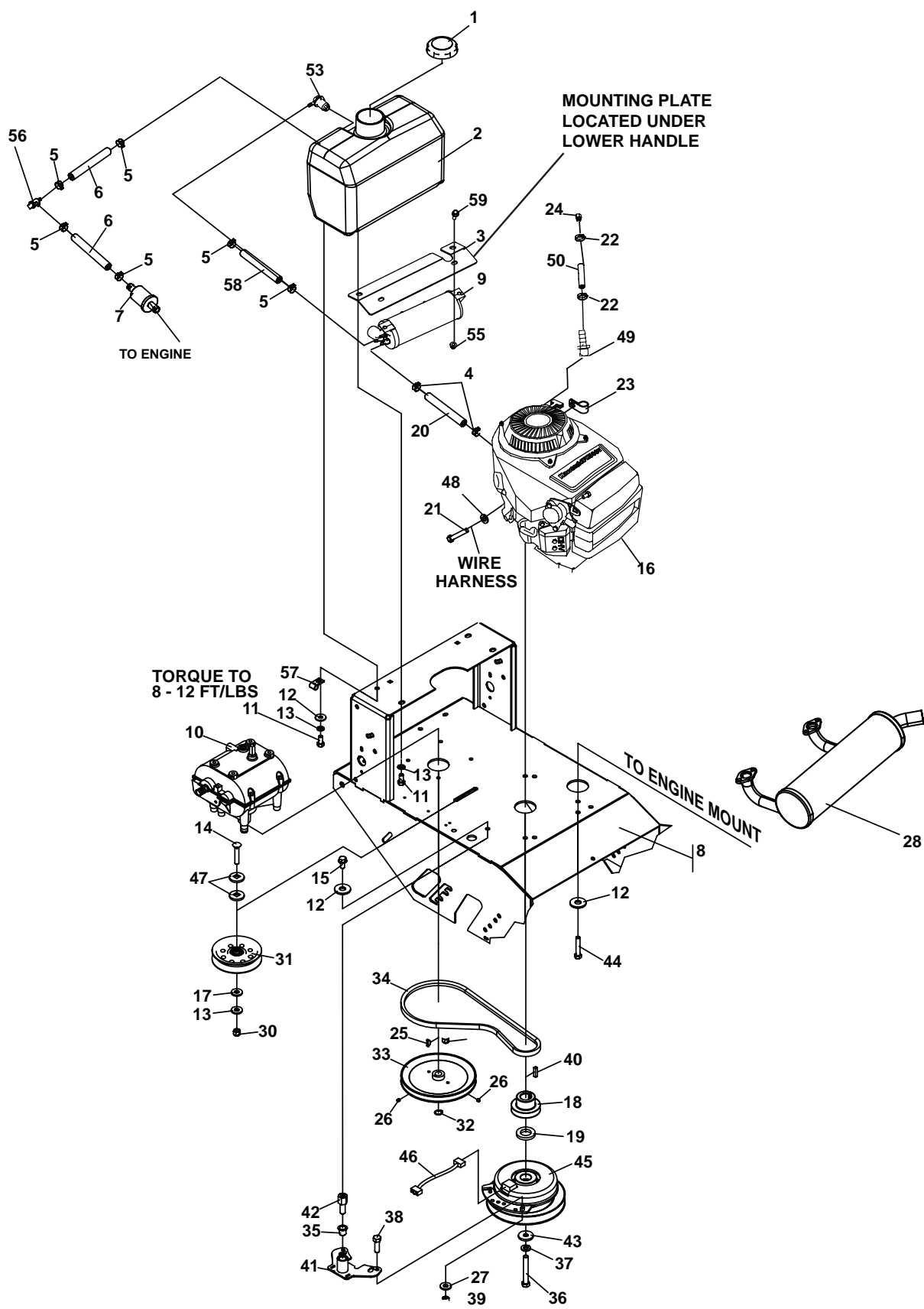


FIGURE 1

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4167989	CAP-FUEL GASOLINE 3.5	1	44	64123-16	BLT-HEX 3/8-16X1-1/4	4
2	4165561	TANK-FUEL (INCLUDES ITEMS 51-54)	1	45	2721110	CLUTCH-ELECTRIC (INCLUDES ITEM 46)	1
3	4171081.7	BRKT-CARB MOUNTING	1	46	2720949	ASSY-CLUTCH WIRE	1
4	88042-01	HOSE CLAMP 3/16	2	47	64163-46	WASHER	2
5	88042N	HOSE CLAMP	6	48	64002-04	LOCKWASHER, EXT. 5/16	1
6	4162977-015	S HOSE-FUEL LINE	2	49	4164252-001	FITTING-3/8NPT-3/8 BARB	1
7	4168368	FILTER, FUEL	1	50	69053-03	HOSE-HYD 3/8X17"	1
8	4137390	S-36 FRAME WLDMT	1	51*	4132325	GROMMET-FUEL TANK	1
9	4171036	CARB-CANISTER 9 GAL	1	52*	4165387	GROMMET-ROLLOVER VENT	1
10	4127203	TRANSMISSION-5 SPD	1	53	4165763	VENT-TANK	1
11	64123-15	BLT-HEX 3/8-16X3/4	4	54*	4165561-2	TUBE-FUEL, PICK UP	1
12	64163-31	WASHER	7	55	64268-02	NUT-FL NYLON LOCK 5/16-18	2
13	64006-03	LOCKWSHR-HELICAL 3/8	9	56	4163016	VALVE-FUEL, IN-LINE	1
14	64018-18	BOLT-CRG 3/8-16X2	1	57	48228-12	CLIP-CABLE, ISULATED	1
15	64123-15	BOLT-3/8-16X3/4 HEX	1	58	4162977-001	S HOSE-FUEL LINE	1
16	4164361	ENG-KAW FS481V	1	59	64262-006	BLT-FLG HD 5/16-18 X 3/4	2
	4164537	OIL FILTER					
	4164535	AIR FILTER PAPER ELEMENT					
	4164536	FILTER FOAM PRECLEANER					
17	64163-61	WASHER	1				
18	38460	PULLEY-ENGINE	1				
19	64163-07	1-1/32X1-3/4X1/4 WASH	1				
20	4162989-001	FUEL SUB-ASSEMBLY	2				
21	64006-01	LOCKWSHR-HELICAL 1/4	2				
22	88042-03	CLAMP-HOSE	2				
23	48412	CLIP-CABLE 5/8 J-HOOK	1				
24	4164251	VALVE-OIL DRAIN	11				
25	64164-19	KEY WOODRUFF.19X.75 #9	1				
26	64044-1	SCREW-SET 1/4-20X1/4	2				
27	64163-55	WASHER	2				
28	4164359	MUFFLER-MIDSIZE KAW	1				
29*	4121560	KIT-BRK POLE RPLCMNT	1				
30	64025-05	NUT-3/8-16 HEX	1				
31	38010-2A	IDLER PULLEY	1				
32	64144-01	SNAP RING 5/8	1				
33	128175	PULLEY-SNGL GRV 7 ED	1				
34	2721796	BELT-MIDSIZE GEARBOX	1				
35	38304-03	BRG-FLANGED PLASTIC	1				
36	64123-155	BLT-HEX 7/16-20 X 3	1				
37	64006-06	LOCKWSHR-HELICAL 7/16	1				
38	64123-54	BOLT, 5/16-18X3/4 HEX	2				
39	64229-02	LOCKNUT-NYLON 5/16-18	2				
40	64164-12	1/4X1/4X1 SQ END KEY	1				
41	2721331.7	WLDMT-CLUTCH STOP MID	1				
42	4121540	PIN-CLUTCH	1				
43	64163-51	WSHR.453X1.38X7GA	1				

FIGURE 2

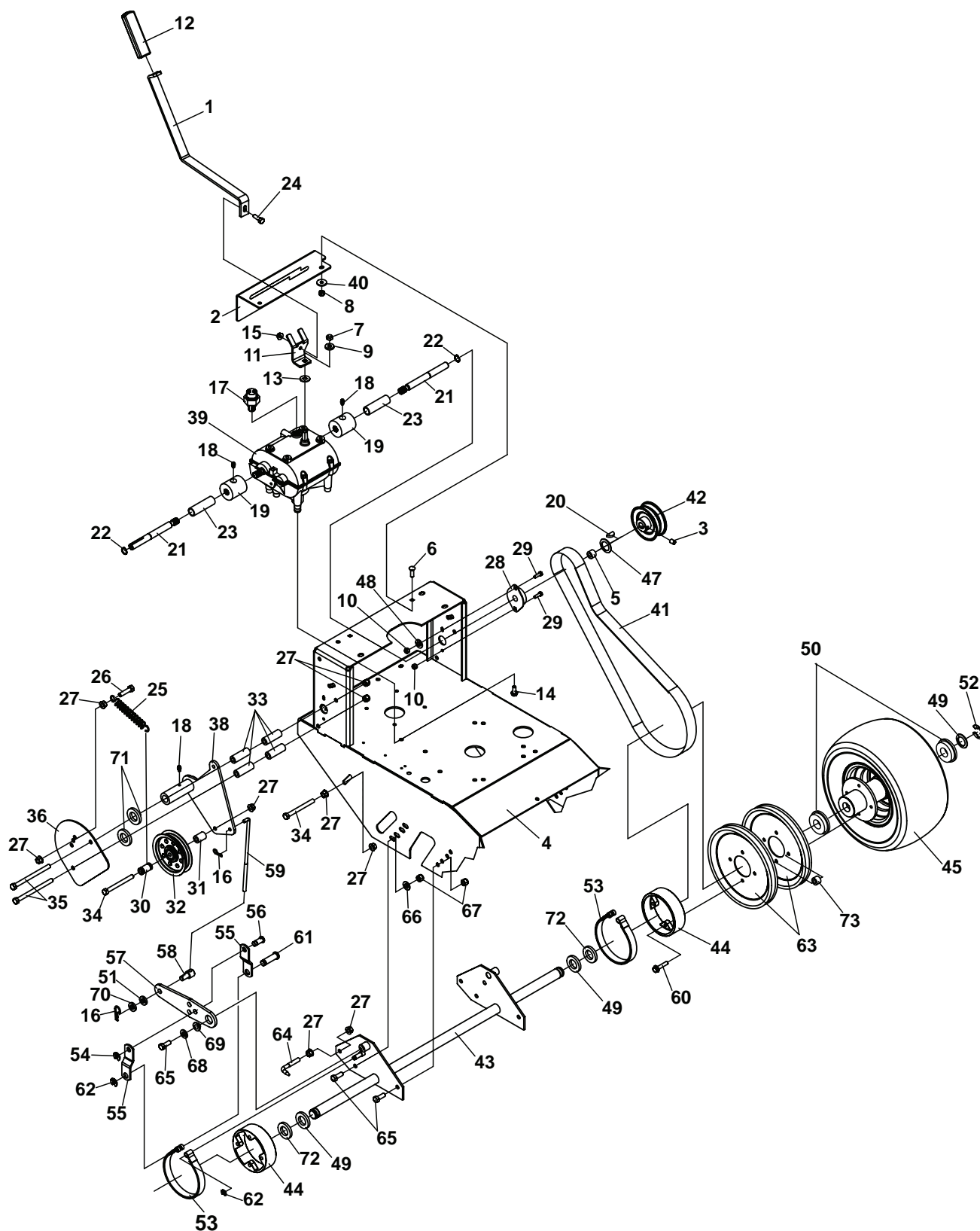


FIGURE 2

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	2721382.7	LEVER-SHIFT	1	40	64163-29	21/64x1x11GA.WASHER	10
2	2722621	S-GEAR SELECTOR PLATE	1	41	38212	BELT-BANDED A EL-55.75	2
3	64044-6	SCREW-SET 5/16-181/4	2	42	4121312	PULLEY-DOUBLE GROOVE	2
4	4130483	S-36 FRAME WLDMT	1	43	4160483.7	WLDMT-CLASSIC AXLE	1
	4130482	S-48 FRAME WLDMT	1	44	4124853	DRUM-BRAKE	2
5	4130974-01	SPACER	2	45	4157780	ASSY-WHEEL 13 X 6.50-6	2
6	64018-15	BLT-CRG 5/16-18X1	2		4157780-01	RIM-6 X 4.5, RED	2
7	64151-3	3/8-24 HH LOCKNUT	1			(INCLUDES ITEM 46)	
8	64229-02	LOCKNUT-NYLON 5/16-18	2	46	38098A	S TIRE 13X6.5X6 4-PLY	1
9	64163-46	WSHR.383/.393X.88X7GA	1	47*	64163-12	WASHER	2
10	64229-01	LOCKNUT-NYLON 1/4-20	4	48	64163-03	WSHR-.256IDX.62DX18GA.	2
11	2721381.7	LEVER-SHIFT LOWER	1	49	64163-64	WASHER	A/R
12	2188155	GRIP-1/4X1X4-1/2	1	50	4128899-03	BEARING-WHEEL	4
13	128108	WASHER PEERLESS	1	51	64163-02	WASHER-11GA	2
14	64139-08	BLT-WLF 5/16-18X3/4	4	52	64221-1	E CLIP	2
15	64141-6	NUT, 5/16-18	1	53	38534	BAND-BRAKE	2
16	64168-2	COTTER-HAIRPIN .08X1.19	4	54	64144-31	SNAP RING	2
17	2722033	SWITCH-NEUTRAL	1	55	4117094	LINK-BRAKE	4
18	85010N	ZERK, 1/4-28 SELF THREAD	4	56	33138-01	PIN, CLEVIS .47	2
19	2308135	COUPLER	2	57	4130590	ARM-BRAKE	2
20	64164-19	KEY WOODRUFF.19X.75 #9	2	58	33004A	SWIVEL	2
21	4130099	SHAFT-CONNECTOR	2	59	33135-01	ROD-BRAKE	2
22	64144-01	SNAP RING 5/8	2	60	64197-021	BLT-TDFM 5/16-18 X 1.75	8
23	35033-5A	JACKSHAFT SHLD 3	2	61	33138-07	PIN-CLVS GRVD .38 X 1.25	2
24	64123-68	BOLT-HEX 5/16-18X1	1	62	64144-30	SNAP RING.375	4
25	2308133	SPRING-EXTENSION	2	63	36271	WHEEL PULLEY ASSY	4
26	64123-70	BLT-HEX 3/8-16X1-1/2	2	64	36896	SCRAPER-DOUBLE EDGE	2
27	64141-4	NUT-WLF 3/8-16	18	65	64123-50	BOLT-HEX 3/8-16X1	6
28	4130975	BRG-BALL 5/8	2	66	64163-31	WASHER, 25/64X1X12	4
29	64123-89	BLT-HEX 1/4-20 X 3/4	4	67	64229-03	LOCKNUT-NYLON 3/8-16	4
30	2303056	SPACER-SPRING	2	68	64006-03	WASHER, 3/8 HELICAL LCK	2
31	33030-09	SPACER	2	69	4130588	SPACER-BRAKE	2
32	38184-2	PULLEY-IDLER	2	70	64163-55	WSHR .328X.75X14 GA	2
33	4136715	SPACER-FENDER	8	71	64163-82	WASHER	4
34	64123-139	BLT-HEX 3/8-16X4	4	72	64163-22	WASHER	2
35	64123-130	BLT-HEX 3/8-16X5-1/2	4	73	103044	SPACER	8
36	2721369.7	COVER-BELT BOBCAT	2				
37*	2721365.7	WLDMT-LH BELLCRANK	1				
38	2721364.7	WLDMT-RH BELLCRANK	1				
39	4127203	TRNSMSN-5 SPD W/ REV	1				

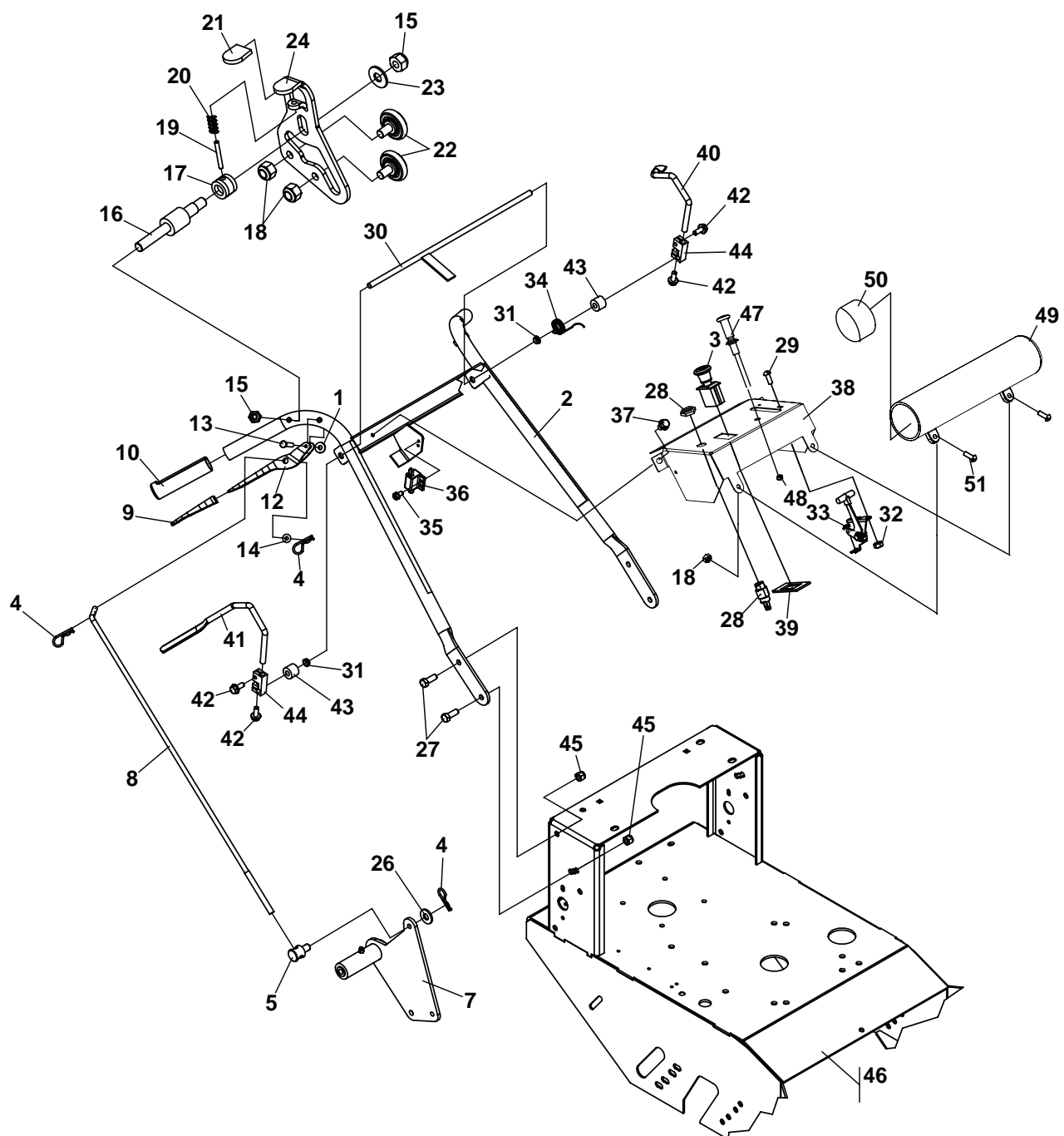
(SEE FIGURE 4 FOR PARTS BREAKDOWN)

* NOT ILLUSTRATED

UPPER HANDLE ASSEMBLY

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FIGURE 3



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	64175-01	PUSHNUT-3/16 ROD	2	41	2308153	LEVER-OP RH	1
2	4164545	S-HANDLE, UPPER CLASSIC	1	42	64197-002	BLT-TDFM 1/4-20X3/4	4
3	2721505	SWITCH-PTO	1	43	33030-09	IDLER-BUSHING	2
4	64168-2	HAIRPIN COTTER	6	44	2303023	CONNECTOR-OP	2
5	33103	SWIVEL	2	45	64229-03	LOCKNUT-NYL 3/8-16	4
6 *	2721365.7	WLDMT-LH BELLCRANK	1	46	4137390	S-36 FRAME WLDMT	1
7	2721364.7	WLDMT-RH BELLCRANK	1	47	108009-03	CABLE-CHOKE	1
8	4122110	ROD-TRACTION CNTRL GD	2	48	64025-04	NUT-HEX 3/8-24	1
9	38009N	GRIP, TRACTION CNTRL	2	49	4129802	TUBE-DOCUMENT	1
10	38360	GRIP-RECESSED 1 IN	2	50	38061A	CAP-DOC TUBE	1
11 *	2308121	ADHESIVE-3 GRAM TUBE (USE WITH ITEM 10)	1	51	64262-003	BLT-HEX FLG 1/4-20X1"	2
12	31032	LEVER,TRACTION CNTRL	2	<p>* NOT ILLUSTRATED</p> <p>TRACTION LOCK ASSY'S ARE ALSO AVAILABLE P/N 2722685 RH & P/N 2722684 LH (INCLUDES ITEMS 15-23 & 24 OR 25)</p>			
13	64188-34	PIN-CLEVIS 3/16 X 2	2				
14	64163-31	WASHER	2				
15	64229-02	LOCKNUT-NYL 5/16-18	4				
16	33288	STUD-DOUBLE ENDED	2				
17	33243	SPACER	2				
18	64229-01	LOCKNUT NYL 1/4-20	6				
19	64061-37	PIN-ROLL	2				
20	38189	SPRING COMPRESSION	2				
21	2722426	GRIP-TRACTION LOCK	2				
22	2308002	BRG-RADIAL W/THD STD	4				
23	62464-5A	WASHER,THRUST 5/16x3/4	2				
24	2722722	LATCH-ROLLER RH GD	1				
25 *	2722721	LATCH-ROLLER LH GD	1				
26	64163-55	WASHER .328X.75X14 GA	2				
27	64123-50	BLT-HEX 3/8-16 X 1	4				
28	38148	SWITCH-ENGINE STOP	1				
29	64152-46	SCREW-SLT HH 10-24X1/2	2				
30	2306097	WLDMT-ACTUATOR - PLTD	1				
31	38371-01	BRG-NYLINER 3/8	2				
32	64025-15	NUT-HEX #10-24 KEPS	2				
33	38357-09	CONTROL-THROTTLE	1				
34	2308037	SPRING, TORSION OP	1				
35	64197-015	BLT-TDFM 10-32X1/2 TORX	2				
36	108208	SWITCH-N.C.	1				
37	64152-23	1/4-20X3/8 LG SP SCREW	4				
38	4166085	S-CONTROL PANEL W/CHK	1				
39	2188178	SWITCH-RETAINER	1				
40	2308152	LEVER-OP LH	1				

FIGURE 4

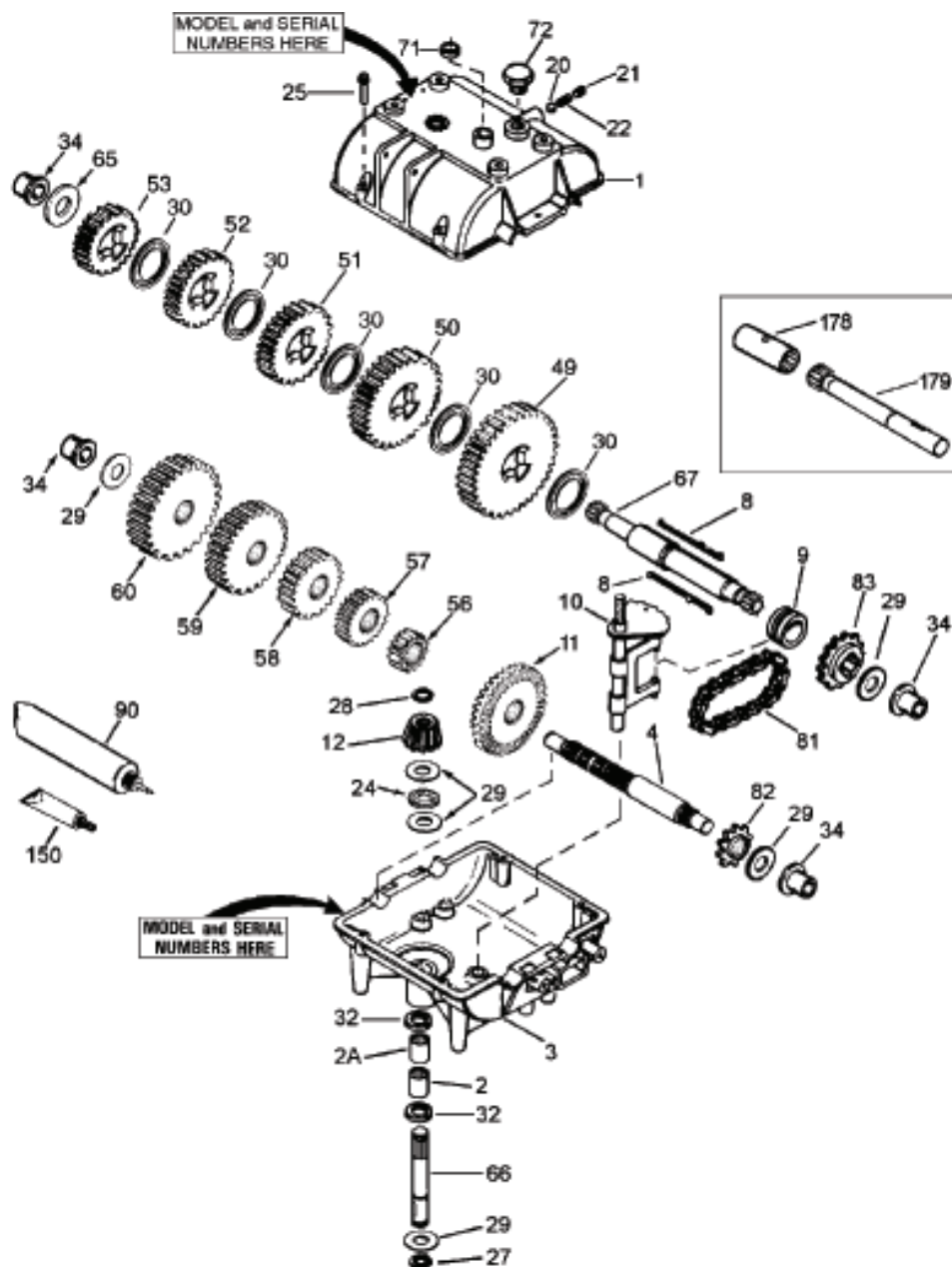


FIGURE 4

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
4127203 PEERLESS TRANS MODEL 700-070A (COMPLETE UNIT AVAILABLE THRU SCHILLER GROUNDS CARE, INC.)				72	792074	THREADED PLUG	1
(INDIVIDUAL COMPONENTS AVAILABLE THROUGH PEERLESS 1-800-558-5402)				81	786081	CHAIN, ROLLER #41	1
1	772083A	COVER, TRANSMISSION	1	82	786082	SPROCKET (9 TEETH)	1
2	780086A	BEARING, NEEDLE	1	83	786083	SPROCKET (18 TEETH)	1
2A	780142	BEARING, NEEDLE	1	90	788067B	GREASE (32 OZ BENTONITE)	
3	770061A	CASE, TRANSMISSION	1	150	510334	GASKET ELIMINATOR (LOCKTITE #515)	
4	776134	COUNTERSHAFT	1	178	2380135	COUPLING	1
8	792089A	SHIFT KEY	4	179	4130099	CONNECTOR SHAFT	1
9	784266	COLLAR, SHIFT	1	(ITEMS 178 & 179 ARE AVAILABLE THRU SCHILLER GROUNDS CARE, INC.)			
10	784376	ROD & FORK ASSY, SHIFT	1	* NOT ILLUSTRATED			
11	778154	GEAR, BEVEL (42 TEETH)	1	SEE YOUR PEERLESS DEALER FOR REPLACEMENT PARTS.			
12	778176	PINION, BEVEL (14 TH ST)	1				
20	792077A	BALL, STEEL, 5/16"	1				
21	792078	SET SCREW, 3/8-16 X 3/8	1				
22	792079	SPRING	1				
24	780071	BEARING, THRUST	1				
25	792073A	SCREW, 1/4-20 X 1-1/4	6				
27	792035	RING, RETAINING	1				
28	788040	RING, RETAINING	1				
29	780072	WASHER	6				
30	780108	WASHER	5				
32	792001	"O" RING	2				
34	780105A	BUSHING, FLANGED	2				
45 *	2308007	NEUTRAL SWITCH NC	1				
49	778146A	GEAR, SPUR (37 TEETH)	1				
50	778125	GEAR, SPUR (35 TEETH)	1				
51	778239A	GEAR, SPUR (32 TH ST)	1				
52	778124A	GEAR, SPUR (30 TEETH)	1				
53	778123A	GEAR, SPUR (25 TEETH)	1				
56	778145	GEAR, SPUR (12 TH ST)	1				
57	778151	GEAR, SPUR (15 TEETH)	1				
58	778240	GEAR, SPUR (18 TH ST)	1				
59	778126A	GEAR, SPUR (20 TEETH)	1				
60	778127A	GEAR, SPUR (25 TEETH)	1				
65	780139	WASHER, THRUST	1				
66	776135	SHAFT, INPUT (3-11/16")	1				
67	776402	SHIFTER & BRAKE SHAFT	1				
71	788069	SEAL, SQUARE CUT	1				

FIGURE 5

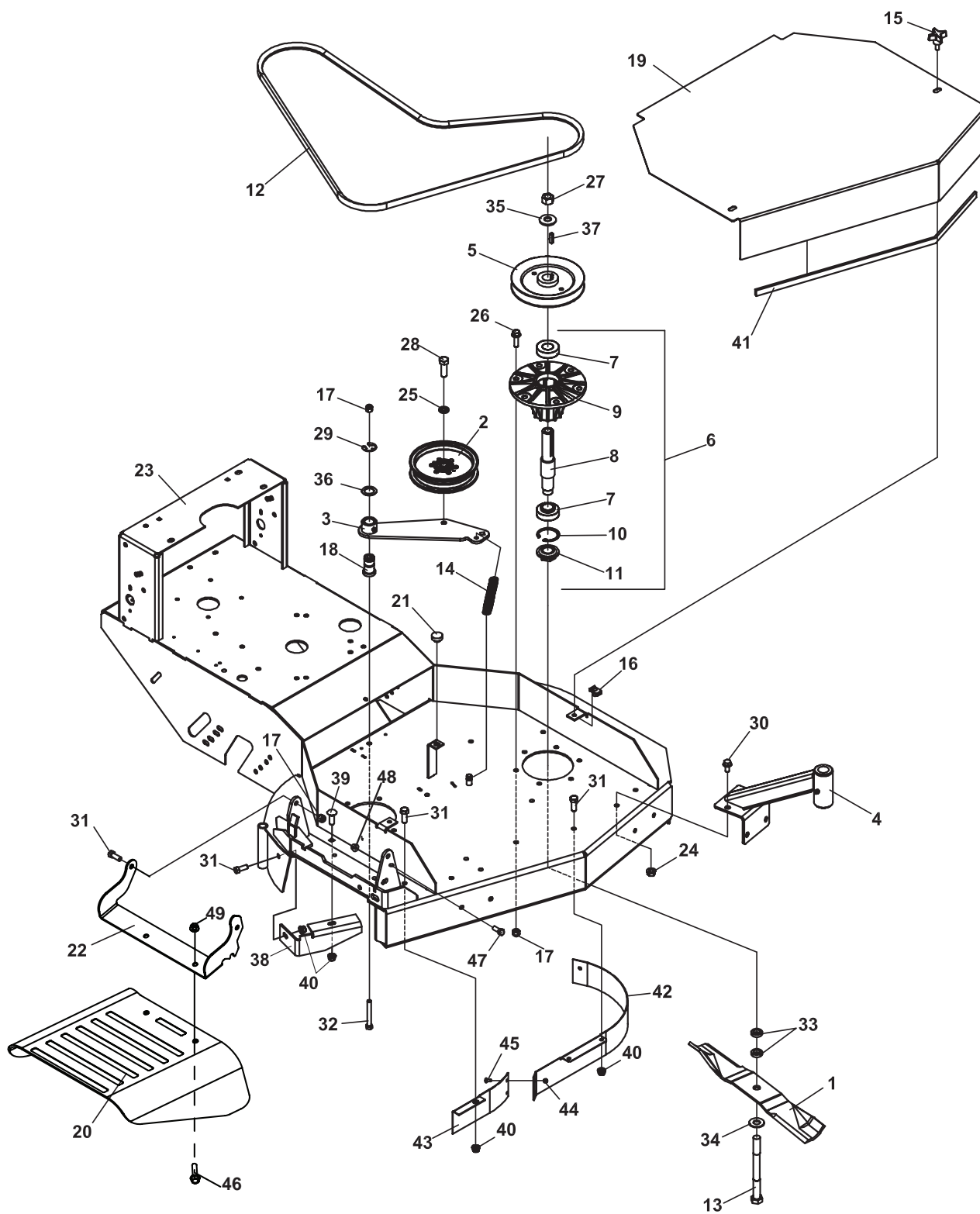


FIGURE 5

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	112111-02	BLADE 18.00 OFFST HLFT	2	42	4147035.7	BAFFLE-FRT CENTER	1
2	128169	PULLEY, IDLER 5.50	1	43	4134343.7	BAFFLE-RT FRONT	1
3	4110580.7	WLDMT-IDLER	1	44	64229-01	LOCKNUT-1/4-20 NYLON	2
4	4124108	S CASTER SUPPORT	2	45	64018-2	BLT-CRG 1/4-20 X 3/4	2
5	4130209	PULLEY-B, 6.13 E.O.D.	2	46	64139-24	BLT-WLF 3/8-16 X 1	2
6	4171184	S-ASSY SPINDLE 6 SHORT (INCLUDES ITEMS 7-11)	2	47	64123-89	BLT-HEX 1/4-20X3/4	1
7	4167554-01	BEARING-SPINDLE SEALED	2	48	64141-2	NUT-1/4-20	1
8	33179-02	SPINDLE-SHORT	1	49	64268-03	NUT-FL NYLON LOCK 3/8-16	2
9	2721323	HOUSING-SPINDLE 6 HOLE	2				
10	64144-38	SNAP RING	1				
11	38315	NUT-SPINDLE	1				
12	4128848	BELT-36 MIDSIZE	1				
13	64123-265	BLT-HEX HD 5/18-18X7 1/2	2				
14	38219	SPRING-TENSION	1				
15	2722458	KNOB-4 PRONG 5/16-18	3				
16	64259-01	U-NUT MULTITHREAD 5/16	3				
17	64229-03	LOCKNUT-NYLON 3/8-16	15				
18	4116661	PIN-PIVOT	1				
19	4159321.2	COVER-36 BELT	1				
20	4147115	CHUTE-DECK, 32-54 SD	1				
21	810149	BUMPER, RUBBER	1				
22	4164932.7	BRKT-CHUTE SUPPORT	1				
23	4137390	S-36 FRAME WLDMT	1				
24	64141-4	NUT-WLF 3/8-16	10				
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	64221-04	E-RING.875	1				
30	64262-010	BLT-FLG HD 3/8-16 X 3/4	8				
31	64123-50	BOLT-HEX 3/8-16X1	9				
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	64209-03	SPRING WASHER.67 ID	2				
36	64163-65	WASHER-.890X1.375X18GA	1				
37	64164-12	KEY-1/4X1/4X1 SQ END	2				
38	4115864.7	BAFFLE-DISCHARGE	1				
39	64018-3	BOLT-3/8-16X1 CARRIAGE	1				
40	64268-03	NUT-FL NYLON LCK 3/8-16	6				
41	108074-13	FLEX TRIM 44.38" (USE 26" ON 36" DECKS)	1				

CASTER ASSEMBLY

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FIGURE 6

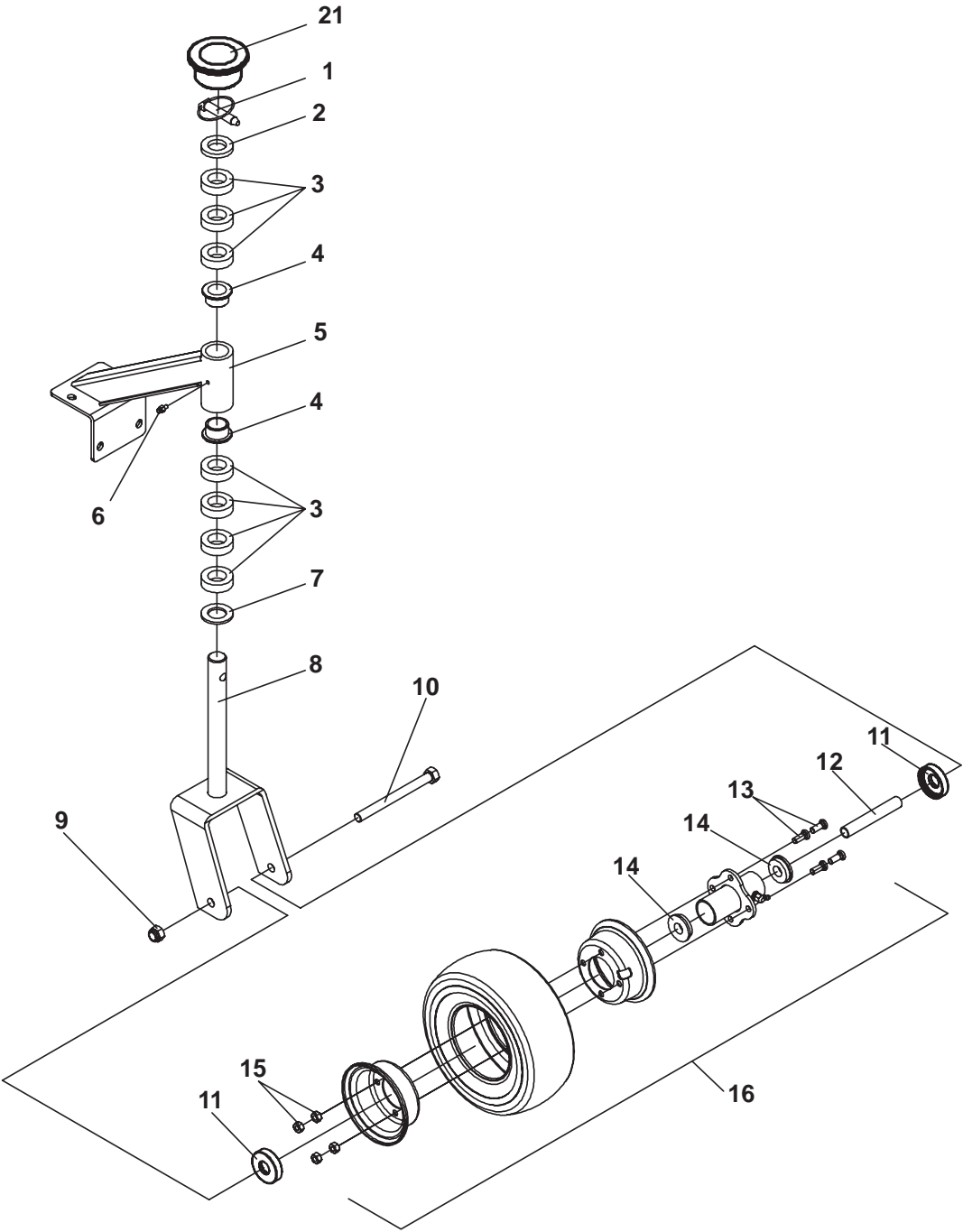


FIGURE 6

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	64173-04	QUICK PIN	1				
2	64163-84	WSHR-1.015 X 1.75 X .125	1				
3	64163-22	1-1/32X1-3/4X1/2 WASHR	7				
4	4129801	BUSHING	2				
5	4124108	S CASTER SUPPORT	1				
	(INCLUDES ITEMS 4 & 6)						
6	85010N	ZERK GREASE FITTING	1				
7	64163-07	1-1/32X1-3/4X1/4 WASH	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	64141-1	NUT-WLF 5/16-24	4				
16	4165544	WHEEL-ASSY, 9X3.5-4	1				
	(INCLUDES ITEMS 13-15)						

* NOT ILLUSTRATED

ELECTRICAL DIAGRAM

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FIGURE 7

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

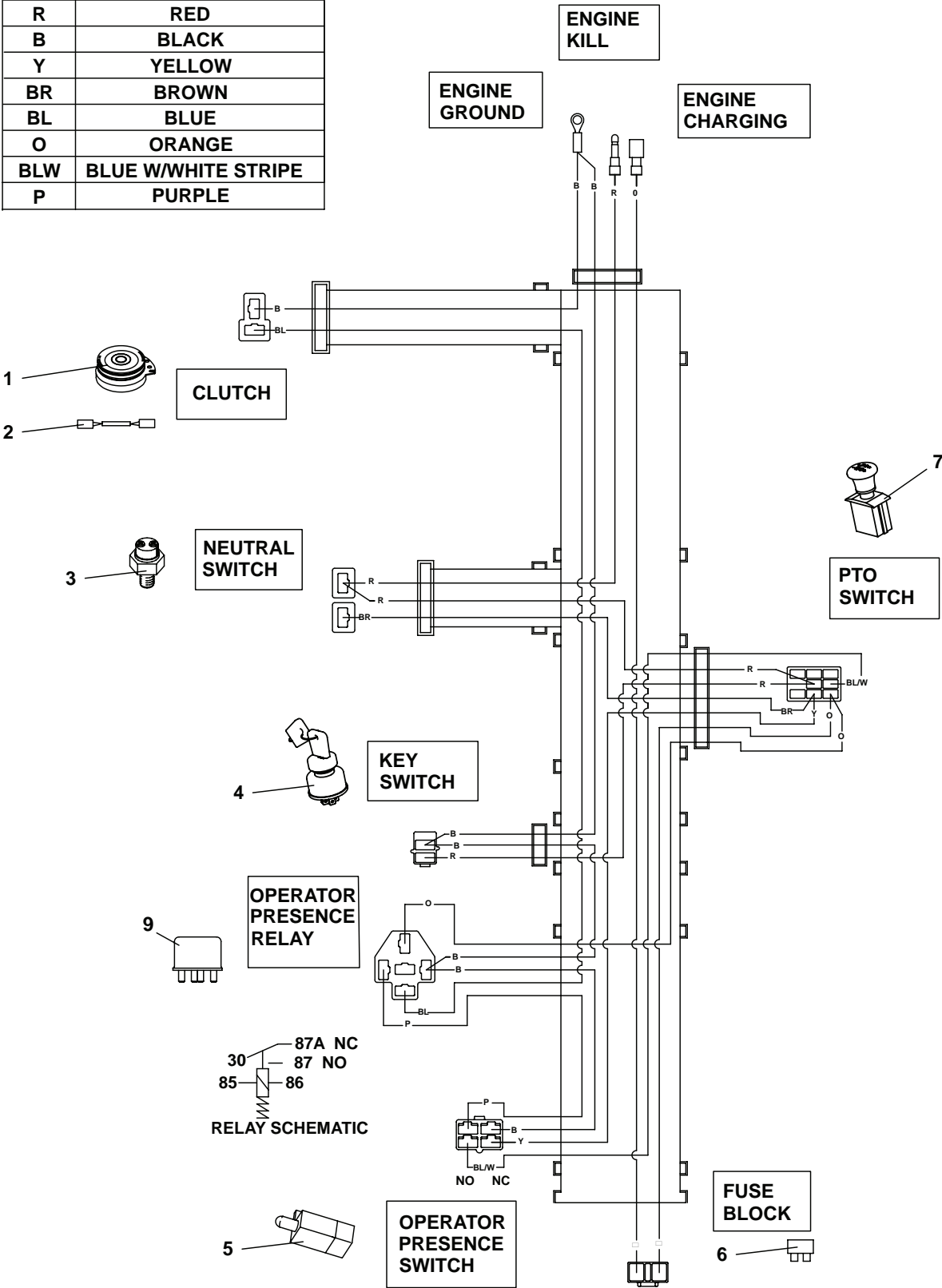
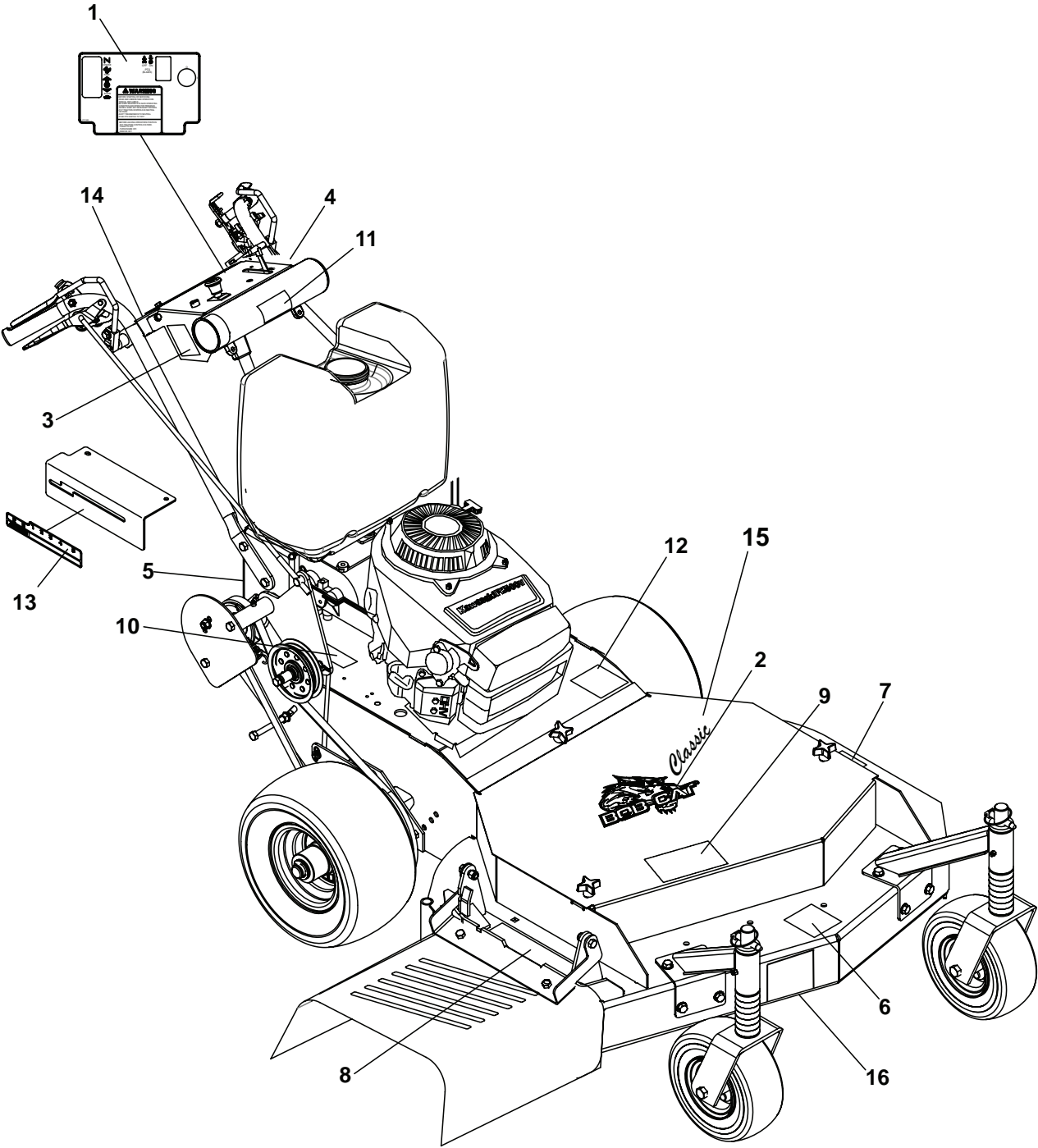


FIGURE 7

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	2721110	CLUTCH-ELECTRIC (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 (INCLUDES ITEM 6 & 9)	1				
9	2722325	RELAY-40 AMP SEALED	1				

FIGURE 8



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4164566	LABEL-CONTROL PANEL	1				
2	4158401	LABEL-BOBCAT, LRG	1				
3	2000570	LABEL-WARN FUEL PICT	1				
4	340830	DECAL-CAUTION SPANISH	1				
5	2000571	LABEL-IMPORTANT	1				
6	4116761	LABEL-MADE IN USA	1				
7	2000572	LABEL-WARNING BLADES	1				
8	4164269	LABEL-DANGER/WARNING	1				
9	2000678	LABEL-ROT PARTS/WSHR	1				
10	2000704	LABEL-MIDSIZE PATENT	1				
11	2000673	DECAL - OP MAN/TIRES	1				
12	2000575	LABEL-WARNING	1				
13	4124261	LBL(DBL)-GEAR SEL/WARN	1				
14	2000569	LABEL-PARK NTRL DRIVE	2				
15	4130725	LABEL-CLASSIC	1				
16	4162912	LABEL-DECK SIZE, 36"	1				

FIGURE 9

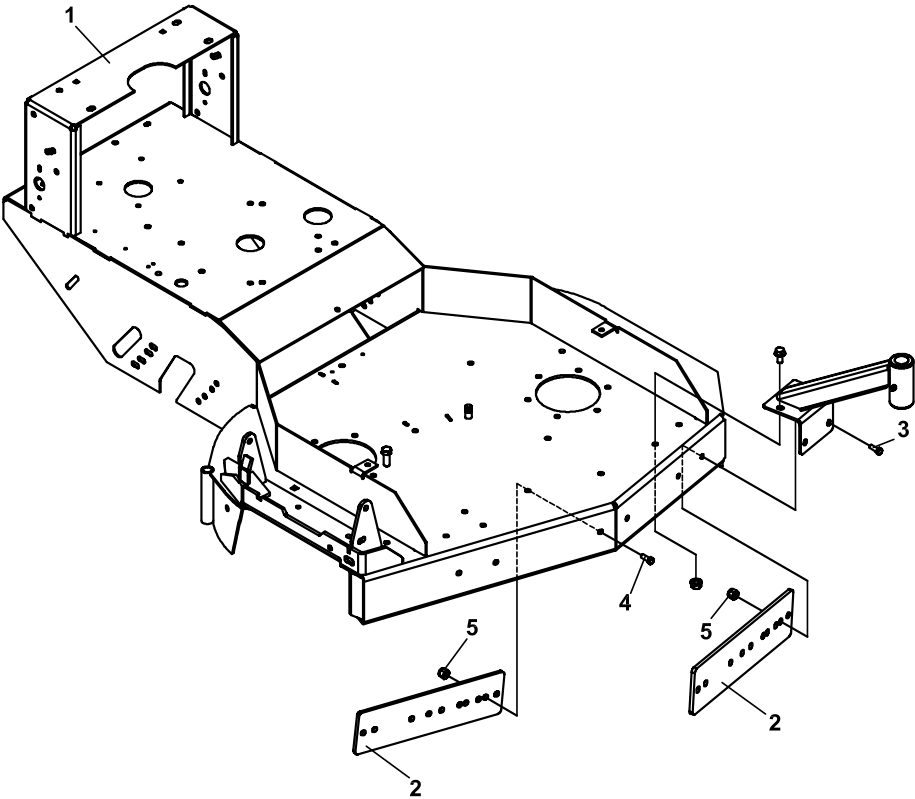


FIGURE 9

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4137390	S-36 FRAME WLDMT	1				
2	4162891.7	WEIGHT	4				
3	64262-012	BLT-FLG HD 3/8-16 X 1-1/4	4				
4	64123-50	BOLT-HEX 3/8-16X1	2				
5	64229-03	LOCKNUT-NYLON 3/8-16	6				

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