

SETUP, PARTS & MAINTENANCE MANUAL HYDRO MIDSIZE

Power Unit Models:

630322A Power Unit 15HP Kawasaki Hydro 630323A Power Unit 17HP Kawasaki Hydro 630328A Power Unit 17HP Kawasaki Hydro ES



WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.

Operation & Safety Manual: 4144174



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.



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.



A AVERTISSEMENT

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

California Advertencia de la Proposicion 65

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



ADVERTENCIA

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

CALIFORNIA Proposition 65 Warning

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

IMPORTANT MESSAGE

Thank you for purchasing this Bunton 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 Bunton 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 Bunton dealer for any service or parts needed. Bunton service ensures that you continue to receive the best results possible from Bunton's products. You can trust Bunton replacement parts because they are manufactured with the same high precision and quality as the original parts.

Bunton 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.

Jacobsen, a Textron Company One Bob Cat Lane Johnson Creek, WI 53038-0469

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4-2006 **1**

NOTICE !!!

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

Jacobsen, a Textron Company strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Jacobsen's Engineering Department. Any Jacobsen 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 Jacobsen—will result in the Jacobsen 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 Jacobsen will be considered the responsibility of the individual(s) or company designing and/or making such changes. Jacobsen 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 Jacobsen 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.

ADANGER

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

AWARNING

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

ACAUTION

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.

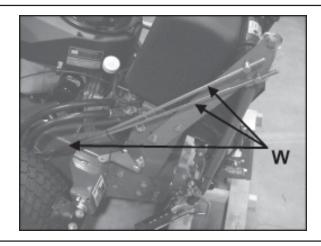
TEXTRON GOLF, TURF & SPECIALTY PRODUCTS MODEL NUMBER SERIAL NUMBER JOHNSON CREEK, WI MADE IN U.S.A

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.

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

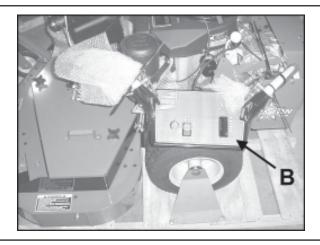
- 1. UNCRATE Place both power unit and cutterdeck crates on a level surface. Remove sides and top from both the power unit and cutterdeck crates.
- 2. Remove three rods **W** on left and two rods **W** on the right from the upper handle shipping bracket and set them aside for later use.



3. Remove spring from bolt **A**. Repeat for other side.

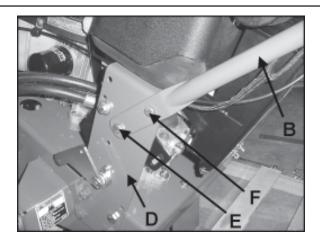


4. Remove tie wraps that hold the upper handle **B** and set the upper handle aside.

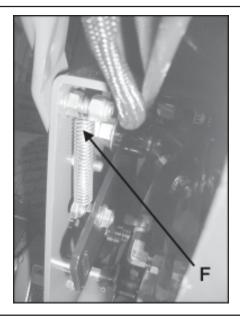


Bolt upper handle B to lower handle D with

 (2) 3/8-16 X 1" bolts and nuts at location E using fasteners supplied in parts bag and
 (2) 3/8-16 X 1-1/2" bolts and nuts at location F.



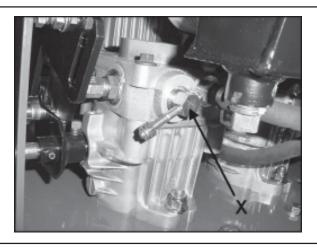
6. Reinstall spring **F**, removed in Step 3, to bolt on both sides. Install 3/8-16 nylon locknut to end of bolt on both sides as shown.



7. Unbolt shipping brackets from crate.



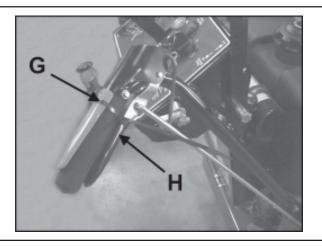
8. Open the bypass valves **X** on each pump by rotating handle counter-clockwise two turns.



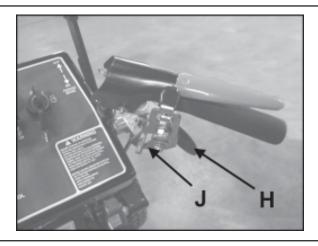
- Remove the power unit from the crate and support the rear of the power unit with a jack stand.
- 10. Unbolt shipping bracket **Y** from power unit and discard.



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

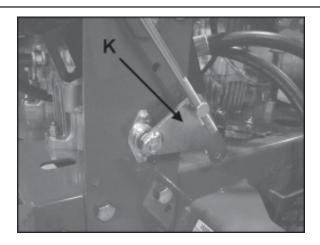


12. Locate the two longest rods removed in Step 2. Install the two traction control rods through the traction control lever H, flatwasher and traction lock J and secure with hairpins. Repeat on other side of upper handle.

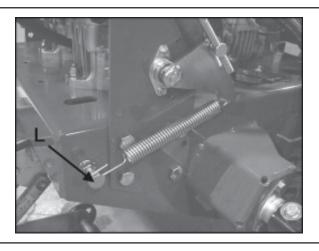


13. With the traction locks J in the neutral position, apply tension to the traction control rod to remove any slack and align swivel on traction control rod with the hole in pump arm K. Repeat for other side.

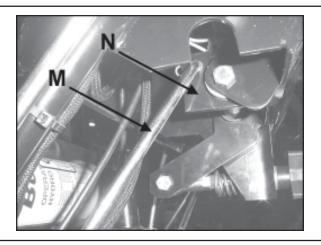
NOTE: The pump arm has some rotational play. Adjust the swivel on the traction control rod to the center of this play and secure to the pump arm with a flatwasher and hairpin as shown.



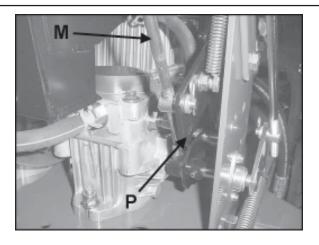
14. Attach spring to pump arm and then to bolt **L**. Repeat for other side.



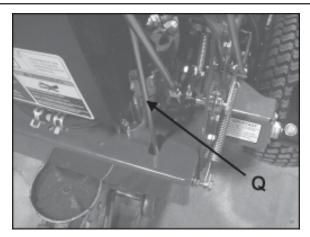
15. Connect speed control rod **M** to the speed control lever **N** and secure with hairpin. Repeat for other side.

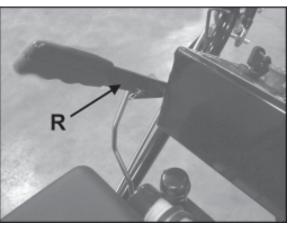


16. Set the speed control levers to neutral and adjust the swivel on the lower end of the speed control rod M so they engage the very top of the slot on the neutral plates P and secure with flatwasher and hairpin as shown. Repeat for other side.

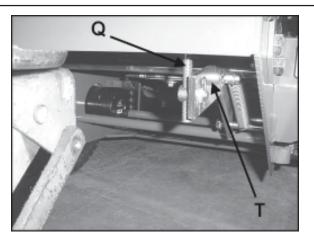


17. Insert threaded end of brake rod **Q** through the slot on the engine deck and attach the other end to the brake control arm **R** and secure in place with hairpin as shown.





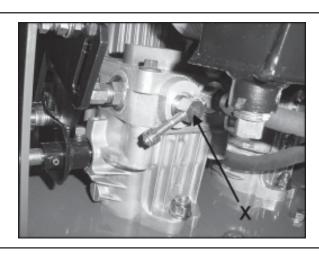
18. Connect swivel on threaded end of brake rod Q to the brake arm T and secure in place with flatwasher and hairpin as shown. Adjust swivel to provide adequate braking when the brake control arm R is engaged. See adjustment section of this manual.



ASSEMBLY/SET-UP INSTRUCTIONS

Hydro Midsize

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



ASSEMBLY/SET-UP INSTRUCTIONS



- 20. Attach cutterdeck per the instructions on the following pages then return to Step 22 of this section.
- 21. Fill engine with oil. (See engine manual for specifications.)
- 22. Fill fuel tank with clean, fresh unleaded fuel.

AWARNING 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
- 23. Check oil level in hydraulic oil reservoir and adjust as necessary.
- 24. Adjust tire pressure in drive wheels and casters to 14 psi (1 kg/cm²).
- Before attempting to start the mower, read and understand all sections of the Operation & Safety manual.

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.

AWARNING

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

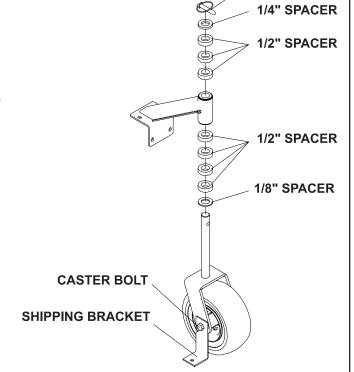
CUTTERDECK ATTACHMENT: Two types of cutterdeck mounting systems are available, fixed and floating. Fixed mounting rigidly attaches the cutterdeck to the power unit. Floating mounting allows the cutterdeck to move independent of the power unit providing a more uniform cut. Follow the appropriate instructions below for the type of cutterdeck being attached to the power unit.

FIXED CUTTERDECK ATTACHMENT

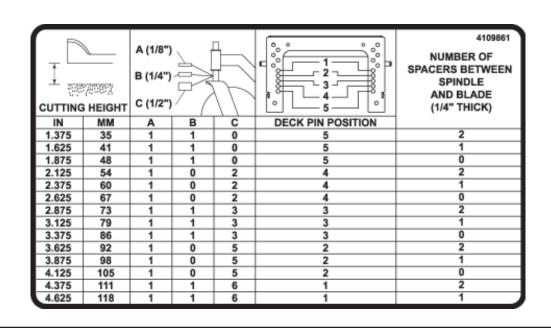
- 1. Remove the cutterdeck from the crate.
- 2. Unbolt the caster wheels and the shipping brackets from the crate.
- Remove the shipping bracket from the caster wheel by loosening the caster bolt and sliding the shipping bracket off and retighten caster bolt.
- 4. Remove quick pin and remove the appropriate number of spacers for the desired height of cut. See height of cut chart below.

NOTE: Height of cut chart is also located on bottom of belt cover or in the Operation & Safety Manual.

5. Repeat for other caster wheel assembly.



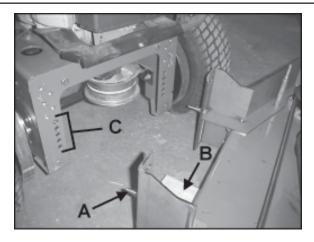
QUICK PIN

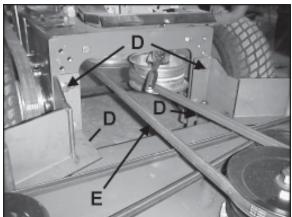


- 6. Remove belt cover and set aside.
- 7. Block the rear of the cutterdeck with the appropriate height block for the desired height of cut **B**. See Support Block Chart below.

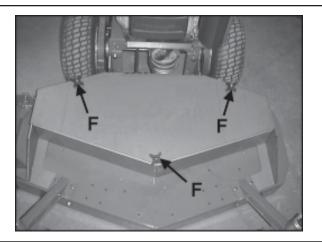
CUTTING HEIGHT	HOLE POSITION ON ENGINE DECK*	BLOCK HEIGHT AT REAR OF DECK (B)				
1.375" - 1.625"	5	1.25"				
1.875" - 2.375"	4	2.00"				
2.625" - 3.125"	3	2.75"				
3.375" - 3.875"	2	3.50"				
4.125" - 4.625"	1	4.25"				
* Position 1 is the highest hole on the engine deck.						

- 8. Position the power unit behind the cutterdeck.
- Move the power unit towards the cutterdeck until the guide pins A engage the appropriate hole C on the power unit for the desired height of cut. Fasten with (4) M12-1.75 X 30 bolts D.
- Loop the PTO belt E around the electric clutch pulley. Using a 3/8" ratchet wrench or 3/8" breaker bar rotate the PTO belt idler while looping the PTO belt around the cutterdeck pulley.



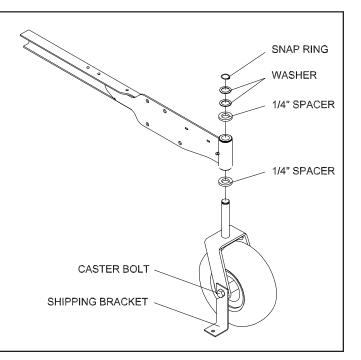


- 11. Reinstall belt cover and fasten in place with knobs **F**.
- 12. Remove support block from the rear of cutterdeck.
- 13. Remove support from the rear of the power unit.

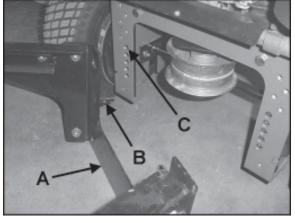


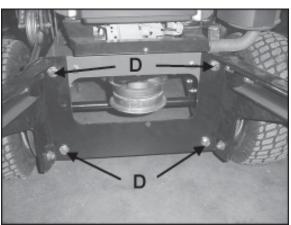
FLOATING CUTTERDECK ATTACHMENT

- 1. Unbolt the caster wheels and the shipping brackets from the crate.
- 2. Remove the shipping bracket from the caster wheel by loosening the caster bolt and sliding the shipping bracket off and retighten caster bolt.
- 3. Remove snap ring, (2) washers and (1) 1/4" spacer from one caster wheel assembly.
- 4. Insert caster yoke through cradle bushing from the bottom up and place (2) washers and (1) 1/4" spacer removed in Step 3 back onto the shaft above the cradle bushing and secure using the snap ring removed in Step 3 as shown.
- 5. Repeat for other caster wheel assembly.



- 6. Remove belt cover from cutterdeck cradle.
- 7. Remove the cutterdeck cradle **A** from the crate and insert guide pins **B** into top hole **C** in power unit.
- Attach cutterdeck cradle to power unit using (4) M12-1.75 X 35 bolts **D** and tighten securely.
- 9. Remove support from rear of power unit.

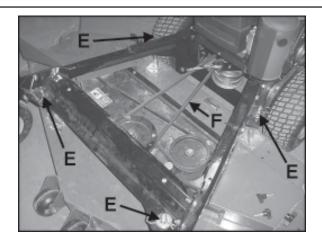




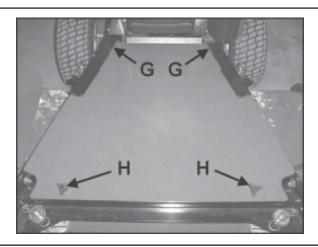
- 10. Position power unit behind the crate and cutterdeck.
- 11. With the cradle raised above the cutterdeck, roll the front of the cradle and power unit up and over the cutterdeck and crate.
- 12. Align height of cut pins **E** on cutterdeck with the bushings on the cradle and lower the cradle so pins pass through bushings.
- Install washers and hairpins through the height of cut pins at the appropriate hole for the desired height of cut.

NOTE: Height of cut chart is located under the belt cover on the cutterdeck or in the Operation & Safety Manual.

14. Loop the PTO belt **F** around the electric clutch pulley. Using a 3/8" ratchet wrench or 3/8" breaker bar rotate the PTO belt idler while looping the PTO belt around the cutterdeck pulley.



15. Install belt cover by inserting tabs at the rear of the belt cover underneath the side rails at **G** and fasten with knobs **H**.



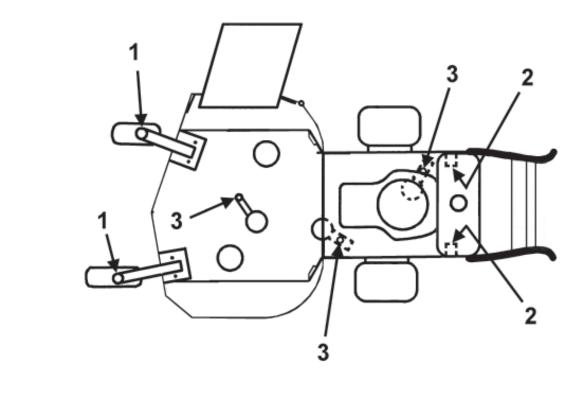


MACHINE LUBRICATION

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

DAILY

Remove the dipstick **S** and check that the oil level reaches the full mark. If necessary, top off with fresh oil. To obtain the correct oil level, the machine must be level. See engine manufacturer's manual for proper oil viscosity and grade. DO NOT OVER FILL!

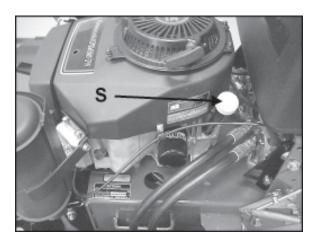
AFTER THE FIRST 5 WORKING HOURS

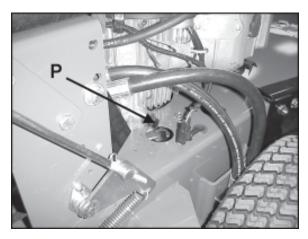
While the engine is warm, remove the drain plug **P** and drain the crankcase. Replace oil filter. Clean and replace the plug. Fill the crankcase through the filler hole with fresh oil to the full mark. See engine manufacturers manuals for oil and filter change intervals.

Engine operator's manuals are shipped with each machine. Shop manuals for the engines are available from your local engine dealer/distributor.

For Kawasaki FH641V, order: 99924-2045-03.
 For Kawasaki FH500V, order: 99924-2045-03.

For Kawasaki FH451V, order: 99924-2045-03.





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

Engine (daily)

Check the engine for oil leaks.

Cooling Fins and Air Intake screen (daily)

Ensure that the cooling fins and air intake screen I are cleaned daily. Continued operation with a clogged cooling system will cause severe overheating and result in engine damage.

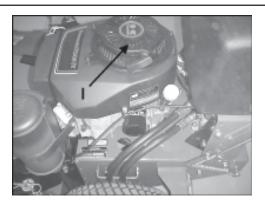
Air Cleaner (every 25 hours)

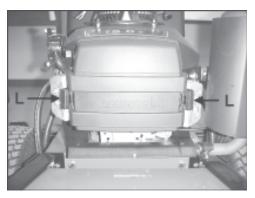
Service more frequently if operating in very dusty or dry conditions. Extensive damage will result from operating with a dirty air cleaner.

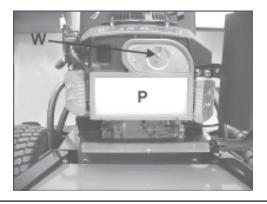
- 1. Remove the air cleaner cover by releasing latches **L**.
- 2. Remove the foam precleaner **P** by sliding it off the paper cartridge. Wash in kerosene or detergent and water. Dry thoroughly. Saturate in engine oil. Squeeze to remove excess oil.
- 3. Reinstall all parts.

NOTES:

- Every 50 hours remove the paper element by loosening wing nut **W**. If dirty, replace.
- DO NOT use petroleum solvents to clean the paper element. They may cause it to deteriorate.
- DO NOT use pressurized air to clean or dry element.
- See the Setup, Parts & Maintenance manual for service part numbers.

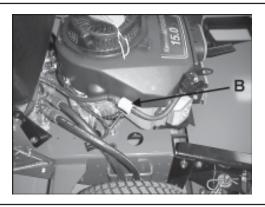






In-Line Fuel Filter

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





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

BLADE REMOVAL

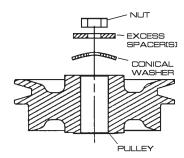
- 1. Use a box wrench or socket with a long breaker bar to remove spindle bolt under cutterdeck.
- 2. Slip tube over breaker bar or wrench if necessary to gain leverage.
- 3. Keep hands clear as blades may rotate when bolt releases.
- 4. When changing blades, wear thickly padded gloves.
- 5. Block blades 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.

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.
- 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.





Cutterdeck Pulley Assembly

SPARK PLUG

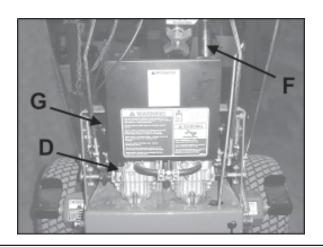
- Remove plug and check condition.
- Good operating conditions are indicated if the plug has a light grey or tan deposit. A white blistered coating may indicate overheating. A black coating usually means an "over rich" fuel mixture caused by a clogged air cleaner or improper carburetor adjustment. Do 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**.





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		Х						
Check For Oil & Air Leaks		х						
Clean Air Intake		Х						
Clean Air Cleaner		Х						
Change Oil & Filter*	X SEE ENGINE MANUFACTURER'S MANUAL*							
Clean Fuel Sediment Bowl				х				
Replace/Adjust Spark Plug	SEE ENGINE MANUFACTURER'S MANUAL							
HYDRAULIC OIL RESEVOIR								
Check Oil Level					х			
MACHINE								
Check Tire Pressures		х						
Check Belt Tensions	CHECK AFTER FIRST 1/2 HR AND AFTER FIRST 4 HRS							
Lubricate All Points				X				

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



NOTES

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

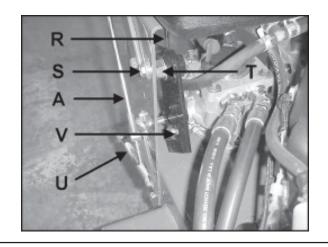


NOTE: Make all adjustments with the engine shut off, spark plug wire disconnected and mower drive disengaged.

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

STEP 1 - Set Neutral

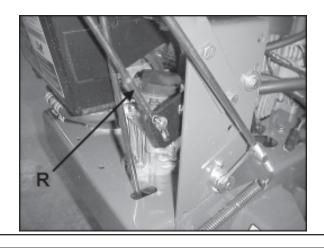
Neutral is set at the factory. If it should require adjustment, raise the wheels off the ground by setting the machine on jackstands or blocks. Disconnect the traction control rod **A** and speed control rod **R** at each pump end. Disconnect pump arm spring **U** from bolt on engine deck. Loosen bolt **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 slots on the neutral plates.

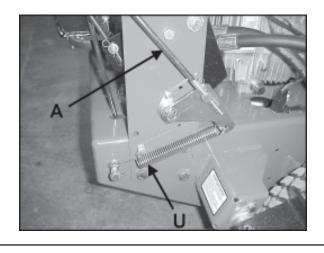
NOTE: If the speed control levers do not have adequate tracking adjustment, the swivel on one of the rods needs to be turned 1 turn.



STEP 3 - Adjust Traction Levers

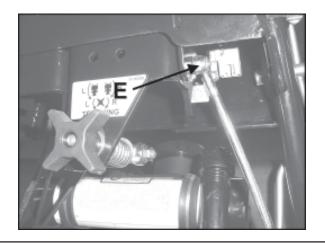
Set neutral and adjust speed control rods as outlined in Steps 1 and 2. Set traction locks in the neutral position. Grasp traction rod **A** and pull down on it to take out any slack. The pump control arm has some back and forth play. Adjust the swivel to the center of the control arm play. Connect the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



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.



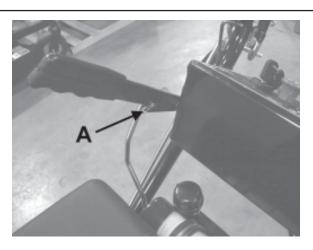
PARKING BRAKE - Apply parking brakes and open the bypass valves on the hydraulic pumps. Try to push the machine forward. If wheels rotate, adjust brakes as follows.

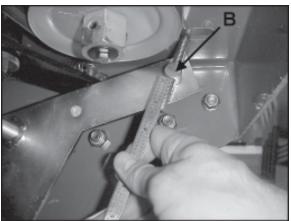
TO ADJUST:

- 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** 1-1/4" as shown. If more brake pressure is required adjust as necessary.

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



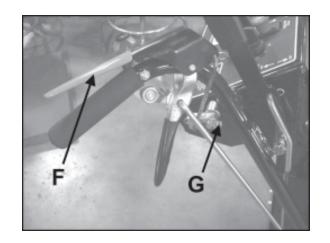


OPERATOR PRESENT CONTROLS

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.

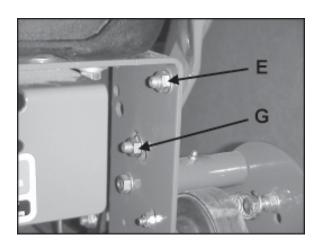
TO ADJUST:

- 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**.
- 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.



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.
- 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/cm²).





PTO BELT

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



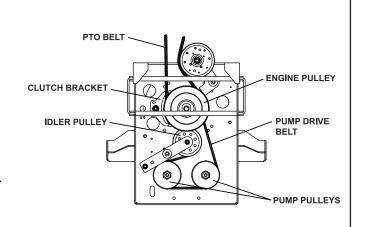
CUTTERDECK BELT

- 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.



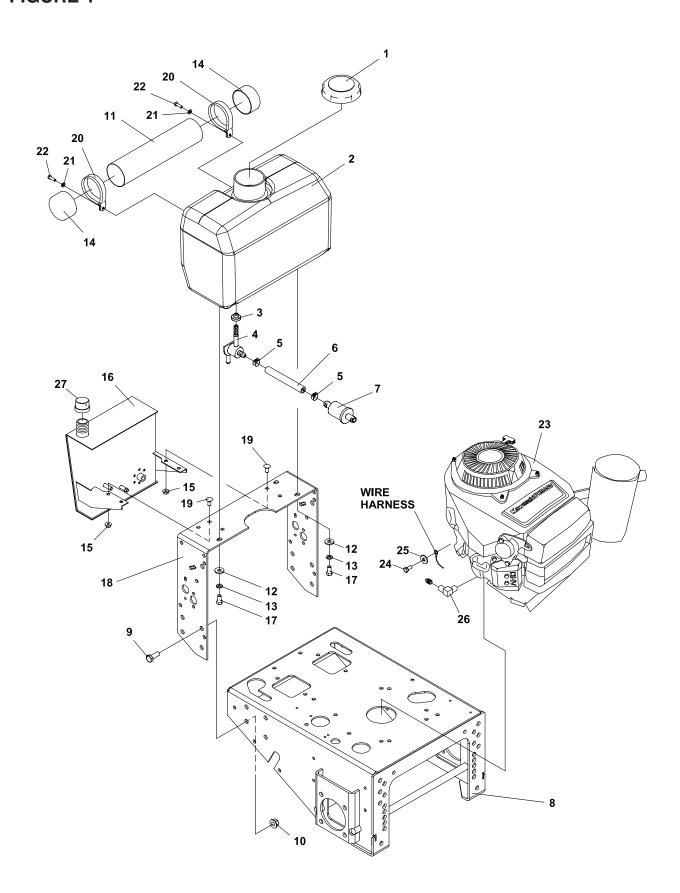
PUMP-DRIVE BELT

- 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.



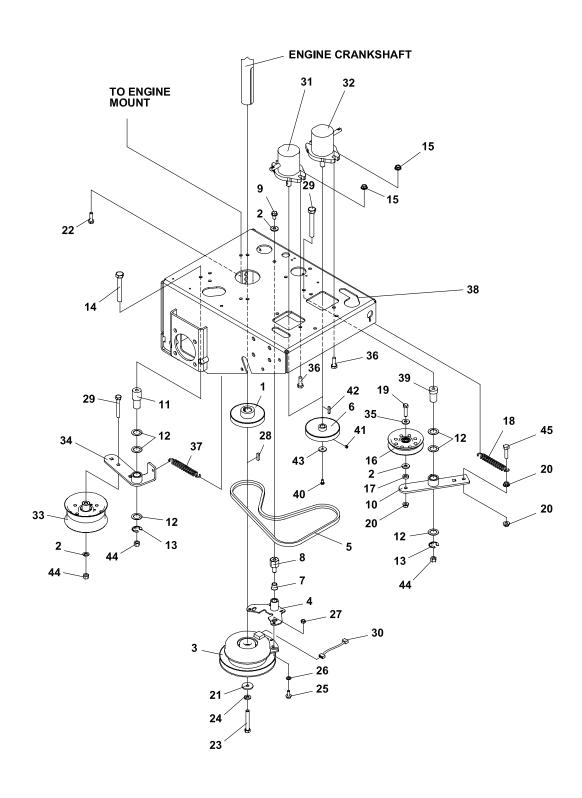
View under engine deck

PARTS SECTION



ITEM PART	NO. DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1-1 4130320 1-2 4128633 (INCLUD		5 1				
,	S FUEL SHUT-OFF VALV HOSE CLAMP A HOSE,.25IDX.50ODX22"L H ON 15HP & 17HP MODELS	/ 1 2 - 1 16.5")				
1-7 38666 1-8 4131068 1-9 64123-39 1-10 64229-05 1-11 2306144 1-12 64163-31 1-13 64006-03 1-14 38061A 1-15 64229-02 1-16 2306127 1-17 64123-15 1-18 2722269 1-19 64018-9 1-20 38542 1-21 64006-03 1-22 64123-85 1-23 2721377 2721378 4117020 2722214 2722207 2722208	BOLT-HEX 1/2-13X1-1/4 LOCKNUT, 1/2-13 NYLON S DOCU TUBE W/LAB WASHER LOCKWSHR-HELICAL 3/2 COVER LOCKNUT-NYLON 5/16-1 S-HYD RESEVOIR W/LAB BLT-HEX 3/8-16X3/4 .7 HANDLE-LOWER HYD BLT-CRG 5/16-18 X 3/4 CLAMP-DOCU TUBE LOCKWSHR-HELICAL 1/2 BLT-HEX 1/4-20 X 3/4 ENG-15HP KAW W/CHAB ENG-17HP KAW W/CHAB ENGINE-17HP KAW ES FILTER-OIL FILTER-AIR FILTER-PRE	1 4 8 4 2 8 4 1 4 2 4 2 2 RG 1 RG 1				
* (SERVI	CE MANUAL 15HP & 17HP KA #99924-2045-03)	W				
1-24 64205-0 1-25 64002-0 1-26 48255-0 1-27 69216.7	LOCKWASHER, EXT. 5/1					

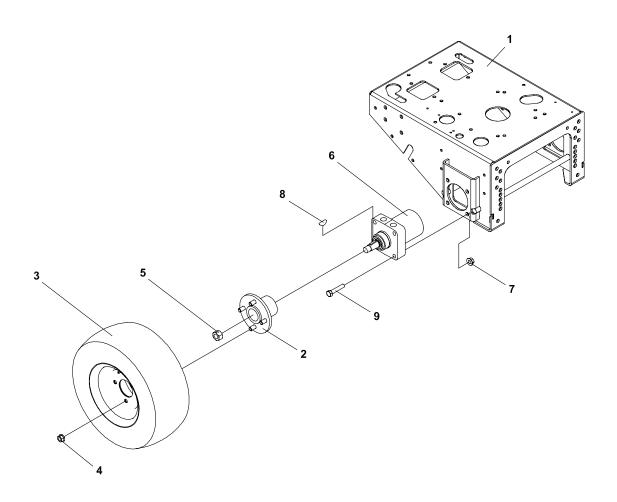
^{*} AVAILABLE THROUGH KAWASAKI DEALER



LOWER ENGINE DECK ASSY/CLUTCH

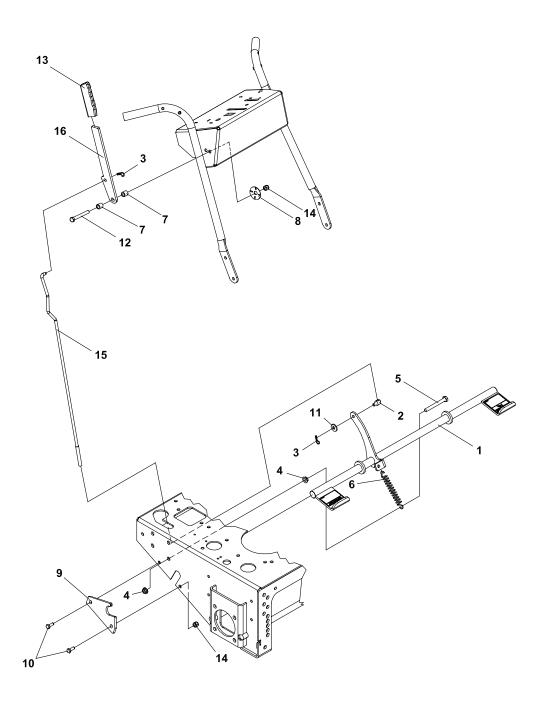
Hydro Midsize

ITEN	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
2-1	2721647	PULLEY-4.50E.O.D.	1				
2-2	64163-31	WASHER, 25/64 X 1 X 12	3				
2-3	2721110	CLUTCH-ELECTRIC	1				
	(INCLUDES	ITEM 30)					
2-4	2721331.7	WLDMT-CLUTCH STOP M	IID 1				
2-5	2721642	BELT-HA 49.0	1				
2-6	2722244	PULLEY- A SECTION 4.50					
2-7	38304-03	BRG-FLANGED PLASTIC	1				
	4121540	PIN-CLUTCH	1				
	64123-15	BOLT-3/8-16X3/4 HEX	1				
	2721641.7	WLDMT-IDLER ARM	1				
	4116712	PIN-PIVOT	1				
	64163-65	WASHER 0.890 X 1.375	6				
	64221-04	E-RING.875	2				
	64123-138	BLT-HEX 3/8-16X3-3/4	1				
	64268-03	NUT-FL NYL LOCK 3/8-16					
	2308000	PULLEY-IDLER 4.00 EOD					
	33148-01	SPACER	1				
	38219	SPRING-TENSION	1				
	64123-87	BLT-HEX 3/8-16 X 1-3/4	1				
		NUT-WLF 3/8-16	3				
	64163-51	WSHR.453 X 1.38 X 7GA	1				
	64197-005	BLT-TDFM 3/8-16X1-1/4	4				
	64123-155	BLT-HEX 7/16-20 X 3	1				
	64006-06	LOCKWSHR-HELICAL 7/1	1				
	64123-54	BOLT, 5/16-18X3/4 HEX	2				
	64163-55	WASHER .328X.75X14 GA					
	64229-02	LOCKNUT-NYLON 5/16-18	1				
	64164-12 64123-75	1/4X1/4X1 SQ END KEY	2				
	2720949	BOLT, 3/8-16X3 HEX ASSY-CLUTCH WIRE	1				
	2721615		1				
	4112782	PUMP-HYDRO LH PUMP-HYDRO RH	1				
	2721541	PULLEY-IDLER 5 IN	1				
	2721401.7	WLDMT-IDLER ARM	1				
	64163-61	WSHR .81X.406X16GA	1				
	64123-16	BLT-HEX 3/8-16X1-1/4	4				
	2188131	SPRING-EXTENSION	1				
	4131068.5	DECK-ENGINE HYDRO	1				
	4116691	PIN-PIVOT	1				
	64205-013	BLT-MET M6-1 X 12	2				
	64044-6	SCREW-SET 5/16-18X1/4	4				
	64238-03	KEY-MET 5MM SQ X 28	2				
	64209-09	WASHER-CONICAL SPRII	_				
	64229-03	LOCKNUT-NYLON 3/8-16	3				
	64123-70	BOLT-HEX 3/8-16X1-1/2	1				
0			•				



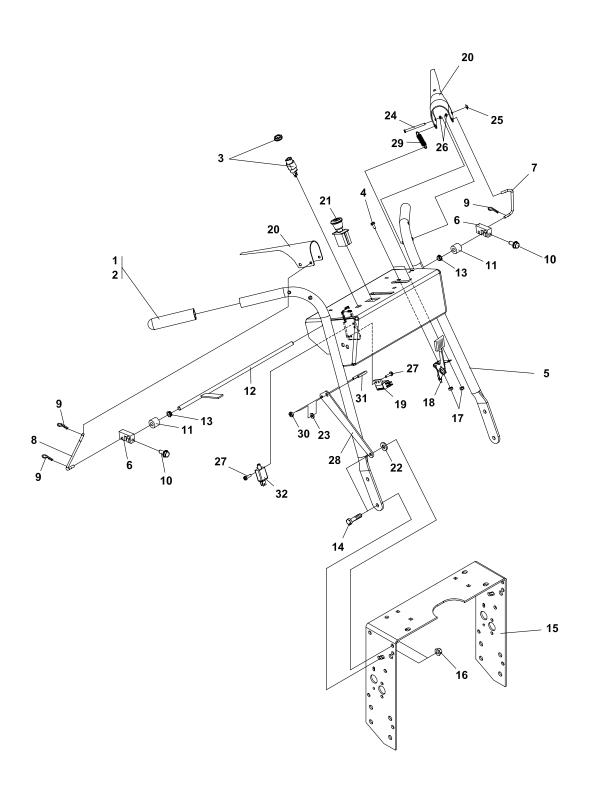


ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
3-1	4131068.5	DECK-ENGINE HYDRO	1				
3-2	2721620.7	WLDMT-HUB	2				
3-3	2721956	ASSY-WHEEL 16 X 7.50 X 8	3 2				
	2721956-01	TIRE-16X7.50 X 8 MLTI TRO	2 1				
	2721956-02	WHEEL W/ DUAL VALVES	1				
3-4	64267-01	NUT-HEX FLANGED 1/2-20	8				
3-5	64025-06	NUT-HEX 3/4-16 2A	2				
3-6	2308051	MOTOR-WHEEL ROSS MF	2				
3-7	64141-13	NUT WLF 1/2-13	8				
3-8	64164-28	#808 WOODRUFF KEY	2				
3-9	64123-72	BLT-HEX 1/2-13X2-1/2	8				



Hydro Midsize

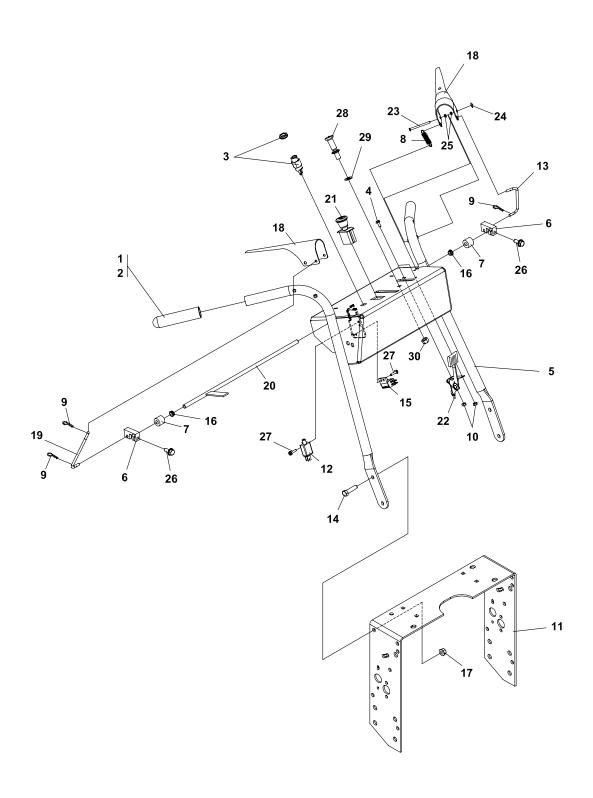
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
4-1	4131746	BRAKE SHAFT W/LABS	1				
4-2	33103	SWIVEL	1				
4-3	64168-2	COTTER-HAIRPIN.08X1.19	2				
4-4	64001-6	NUT-HEX JAM,3/8-16	2				
4-5	64123-138	BLT-HEX 3/8-16X3-3/4	1				
4-6	2188131	SPRING-EXTENSION	1				
4-7	2183071-01	SPACER-15.88X10.32X16	2				
4-8	64171-2	WAVE WASHER	1				
4-9	4131072.7	PLATE-BRK SHFT RETNR	2				
4-10	64123-50	BOLT-HEX 3/8-16X1	4				
4-11	64163-02	WSHR325 X .596 X 11GA	. 1				
4-12	64123-82	BOLT-HEX 3/8-16X2-1/2	1				
4-13	38404-01	GRIP-CONTROL LEVER	1				
4-14	64229-03	LOCKNUT-NYLON 3/8-16	5				
4-15	4132134	ROD-PARK BRAKE	1				
4-16	2721632.7	LEVER-BRAKE	1				





ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
5-1	PL5029	GRIP-HANDLE	2				
5-2	*2308121	ADHESIVE-3 GRAM TUBE	1				
	(USE WITH F	PL5029 GRIP)					
5-3	38148	SWITCH-ENGINE STOP	1				
	64152-46	SCR-SLT HH 10-24X1/2	2				
	4122150	S UPR HNDL W/LABS, HYD					
	2303023	CONNECTOR-OP	2				
	4122104	ROD-HANDLE LINK, LH	1				
	4122107	ROD-HANDLE LINK, RH	1				
	64168-2	COTTER-HAIRPIN.08X1.19					
	64197-002	BLT-TDFM 1/4-20X3/4	2				
	33030-09	IDLER-BUSHING	2				
	4122056	WLDMT-OP PRESENCE	1				
	38371-01	BRG-NYLINER 3/8	2				
	64123-50	BOLT-HEX 3/8-16X1	4				
	2722269.7	HANDLE-LOWER	1				
	64141-4	NUT-WLF 3/8-16	4				
	64025-15	NUT-HEX #10-24 KEPS	2				
5-18	38357-09	CONTROL-THROTTLE	1				
	38383	SWITCH	1				
	2302152.7	HNDL-OP PRESENT	2				
5-21	2721505	SWITCH-PTO	1				
	64163-83	WASHER406 X 1.00 X.25					
	64163-03	WSHR256IDX.620DX18G	A 2				
5-24	64188-44	PIN-CLEVIS 3/16 X 2.25	2				
5-25	64175-01	PUSHNUT-3/16 ROD	2				
5-26	38371-03	BRG-NYLINER 3/16	4				
5-27	64197-015	BLT-TDFM 10-32X1/2	4				
	2722062.7	BRACE-HANDLE	2				
5-29	4122096	SPRING-TENSION	2				
5-30	64229-01	LOCKNUT-NYLON 1/4-20	4				
	64225-03	U-BOLT	2				
5-32	108208	SWITCH DBL POLE	1				

* NOT ILLUSTRATED



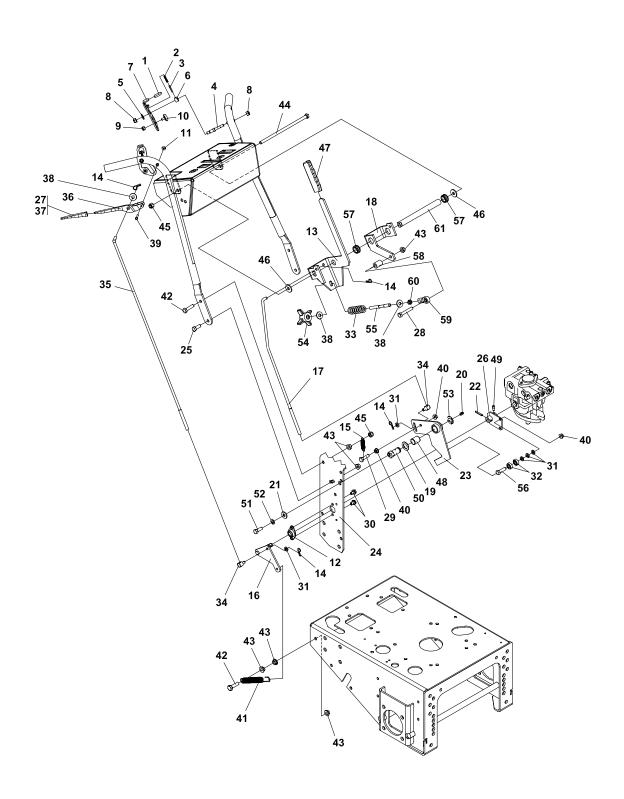
ELECTRIC START UPPER HANDLE



FIGURE 6

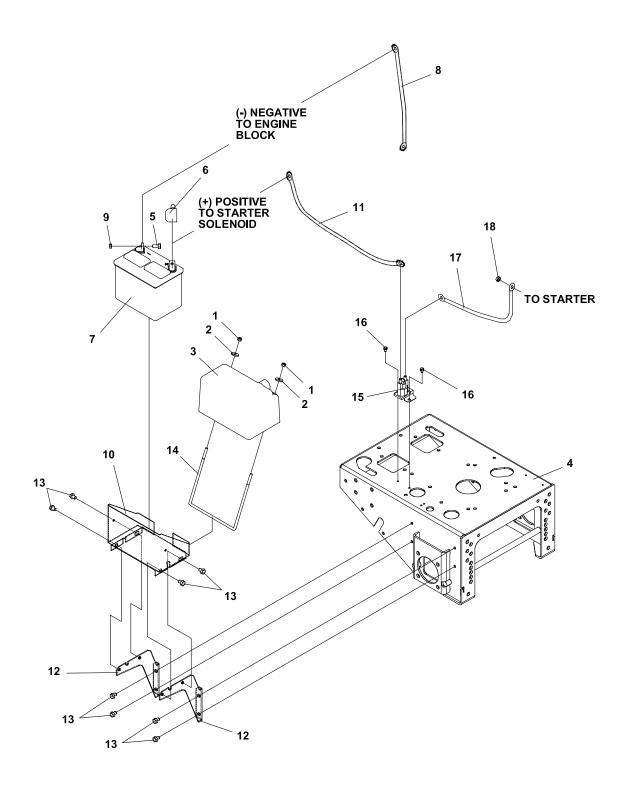
ITEN	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
6-1 6-2	PL5029 *2308121 (USE WITH F	GRIP-HANDLE ADHESIVE-3 GRAM TUBE PL5029 GRIP)	2				
6-3 6-4 6-5	,	SWITCH-ENGINE STOP SCR-SLT HH 10-24X1/2 S UPRHNDL W/LABS W/CI 30324A ONLY)					
	4122150 (USED ON 6	S UPR HNDL W/LABS, HYI 30328A ONLY)	D 1				
6-10 6-11 6-12 6-13 6-14 6-15 6-16 6-17 6-18 6-19 6-20 6-21 6-22 6-23 6-24 6-25 6-26	2303023 33030-09 2308065 64168-2 64025-15 2722269.7 2308094 4122104 64123-50 108208 38371-01 64141-4 2302152.7 4122107 4122056 2721505 118020-16 64188-44 64175-01 38371-03 64197-015	PUSHNUT-3/16 ROD BRG-NYLINER 3/16 BLT-TDFM 1/4-20X3/4 BLT-TDFM 10-32X1/2	2 1 1 1 4 1 2 4 2 1 1 1 2 2 4 2 4 2 4 2				
6-29	108009-03	0 USED ON 930324A ONLY) CONTROL-CHOKE 51 WASHER, 25/64X1X12 NUT-3/8-24 HEX	1 1 1				

* NOT ILLUSTRATED



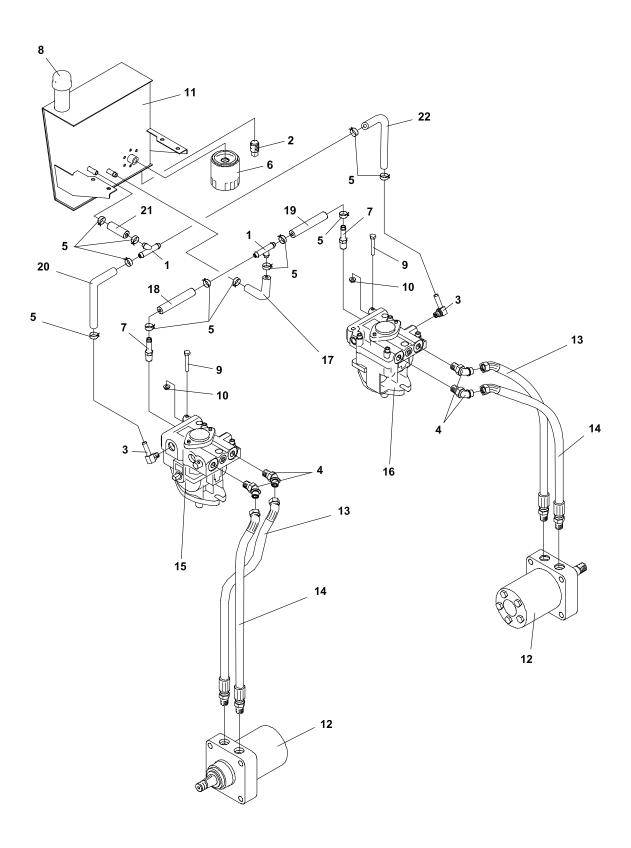
Hydro Midsize

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
7-1	2722426	GRIP-TRACTION LOCK	2	7-41	4117212	SPRING EXTENSION	2
7-2	38189	SPRING-COMPRESSION	2	7-42	64123-70	BOLT-HEX 3/8-16X1-1/2	4
7-3	64061-37	ROLL PIN-1/8 X 1.00 SS	2	7-43	64141-4	NUT-WLF 3/8-16	11
7-4	2303076	STUD-DOUBLE ENDED	2	7-44	64123-202	BLT-HEX 3/8-16 X 9	1
7-5	62464-5A	WASHER, THRUST 5/16X3	/4 2	7-45	64229-03	NUT-NYLOCK 3/8-16	3
7-6	33243	SPACER	2	7-46	2308066	FRICTION WASHER	2
7-7	2722242	LATCH-ROLLER LH HYDF	0 1	7-47	38404-01	GRIP,CONTROL LEVER	1
,	*2722243	LATCH-ROLLER RH HYDF	RO 1	7-48	2308076-02	BEARING-PLASTIC	2
				7-49	64192-04	SET SCREW 5/16-18X5/8	2
7-8	64229-02	5/16-18 NYLON LOCKNUT	4	7-50	2303058	ECCENTRIC SHAFT W/ZR	K 2
7-9	64229-01	LOCKNUT NYL 1/4-20	2	7-51	64123-02	BLT HEX 3/8-24 X 1	2
7-10	2308002	BRG-RADIAL W/THD STU	D 2	7-52	64006-03	WASHER, 3/8 HELICL LCF	(2
7-11	64175-01	PUSH NUT	2	7-53	64144-16	RING,CLIP75X.062	2
7-12	2308080	BEARING SELF ALIGNED	2	7-54	38524	KNOB-4 PRONG 3/8-16	1
7-13	2721843.7	ARM-RH SPEED CONTRO	L 1	7-55	2721854	STUD-3/8-16X 3/8-24 4.5L0	3 1
7-14	64168-2	HAIRPIN COTTER	7	7-56	64123-69	BOLT-5/16-18X1-1/2 HEX	2
7-15	2308065	SPRING EXTENSION	2	7-57	118047-09	BUSHING-FLIP LOK.75ID	2
7-16	2721660.7	WLDMT-PUMP ARM RH	1	7-58	33030-08	BUSHING-IDLER7/8X3/8X1	1
•	*2721622.7	WLDMT-PUMP ARM LH	1	7-59	138011	BALL JOINT	1
					64001-2	NUT-JAM 3/8-24	1
7-17	2722305	ROD-SPEED CONTROL	2	7-61	2721844	BUSHING-SPEED CNTRL	1
7-18	2721842.7	ARM-LH SPEED CONTRO	L 1				
7-19	64163-06	WSHR.768/.756X1.25X140	A 2	TRAC	CTION LOCK	ASSY'S ARE ALSO AVAILAB	LE
7-20	85010N	ZERK, 1/4-28 STR	2		4113565	S-TRCTN LOCK ASSY RH	1
7-21	64163-61	WSHR .81X.406X16GA	2		(INCLUDES	ITEMS 1-4, 6, 7, 9-12)	
7-22	64061-28	ROLL PIN 3/16 X 1-1/4	2				
7-23	2721617.7	WLDMT-SPEED CONTRO	L 2		4113564	S-TRCTN LOCK ASSY LH	1
	2722269.7	HANDLE-LOWER	1		(INCLUDES	ITEMS 1-4, 6, 7, 9-12)	
	64123-50	BOLT, 3/8-16X1 HEX	2				
	2306081.7	WLDMT PUMP ARM	2				
7-27*	2308121	ADHESIVE	1		* NO	OT ILLUSTRATED	
	(USE WITH S	38009N GRIP)					
7-28	64123-100	BOLT-3/8-16X2-1/4 HEX	1				
7-29	64123-68	BLT-HEX 5/16-18 X 1	2				
7-30	64139-13	BLT-WLF 5/16-18X1/2	4				
7-31	64163-02	WSHR 21/64X19/32X11 G/	A 11				
7-32	38372	BEARING BALL	4				
7-33	2720312	SPRING-COMP IDLER PL	Γ 1				
7-34	33103	SWIVEL	4				
7-35	4122108	ROD-TRCTN CNTRL,HYD	2				
7-36	31032	LEVER TRACTION CNTRL	. 2				
7-37	38009N	GRIP TRACTION CNTRL	2				
7-38	64163-31	WASH 25/64X1X12 GA	4				
7-39	64188-44	PIN-CLEVIS 3/16 X 2.25	2				
7-40	64141-6	NUT-WLF 5/16-18	6				





ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
8-1	64229-02	LOCKNUT-NYLON 5/16-18	2				
8-2	64163-29	WASHER	2				
8-3	128035	COVER-BATTERY	1				
8-4	4131068.5	DECK-ENGINE HYDRO	1				
8-5	64123-54	BOLT, 5/16-18X3/4 HEX	2				
8-6	112386	BOOT-BATTERY TERM PO	S 1				
8-7	108055	BATTERY	1				
8-8	108061-16	CABLE-BTTRY 31.5 BLACK	. 1				
8-9	64025-02	NUT-HEX 5/16-18	2				
8-10	4113742	S-TRAY, BATTERY	1				
8-11	2722227-03	CABLE-BTTRY W/CONDUI	T 1				
8-12	2722202.7	SUPPORT-BATT TRAY	2				
8-13	64197-016	BLT-TDFM 3/8-16X1/2	8				
8-14	123026	ROD,BATTERY HLD DWN	1				
8-15	38665	SOLENOID	1				
8-16	64152-23	1/4-20X3/8 LG SP SCREW	2				
8-17	108061-15	CABLE-BATTERY 6.5 RED	1				
8-18	64141-2	NUT-WLF 1/4-20	1				
				1			



Hydro Midsize

FIGURE 9

QTY

ITEM	PART NO.	DESCRIPTION	QTY
9-1	58026-01	3-WAY CONNECTOR	2
9-2	108029	PLUG, MAGNETIC	1
9-3	158058-04	FITTING-90 BARB, ADJ.	2
9-4	108205-02	ELBW-MALE 45 8X8 37-OR	B4
9-5	88042-04	CLAMP-HOSE 5/8"	12
9-6	2720396	FLTR, 25 MCRN SM CAM	1
9-7	69060-01	FTG-BARB 9/16 X 3/8 ST	2
9-8	69216.7	CAP-RESERVOIR	1
9-9	64123-60	BOLT, 1/4-20X2 HEX	2
9-10	64229-01	LOCKNUT-NYLON 1/4-20	2
9-11	2306127	S HYD RESER W/LABS	1
9-12	2308051	MOTOR WHEEL ROSS	2
9-13			_
		HOSE-1/2 37/ORB X 18.5 L	G 2
9-15	_	PUMP-HYDRO RH	1
	(SEE FIG 16	FOR PARTS BREAKDOWN)	
9-16	2721615	PUMP-HYDRO LH	1
	(SEE FIG 14	FOR PARTS BREAKDOWN)	
(6905	3-05 IS A SEF	RVICEABLE LENGTH OF 55")
9-17	69053-05	3/8 HI TEMP HOSE 17.0"	1
9-18	69053-05	3/8 HI TEMP HOSE 5.0"	1
9-19	69053-05	3/8 HI TEMP HOSE 5.0"	1
9-20	69053-05	3/8 HI TEMP HOSE 7.5"	1
9-21	69053-05	3/8 HI TEMP HOSE 6.8"	1
9-22	69053-05	3/8 HI TEMP HOSE 12.0"	1

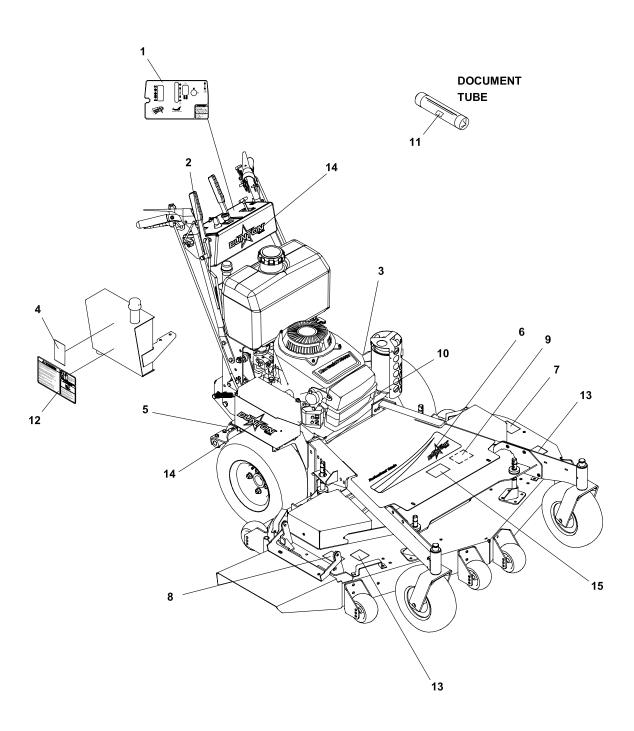
SERVICEABLE HYDRAULIC O-RINGS

DESCRIPTION

ITEM PART NO.

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					

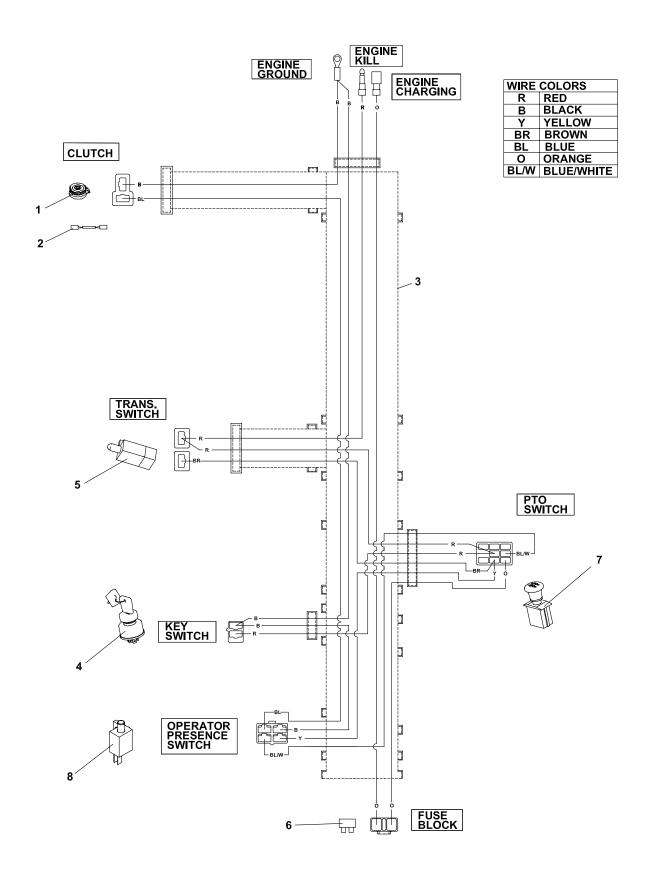
NOTE: <u>DO NOT</u> use teflon tape on any hydraulic fittings. Use a liquid pipe sealant.



DECALS



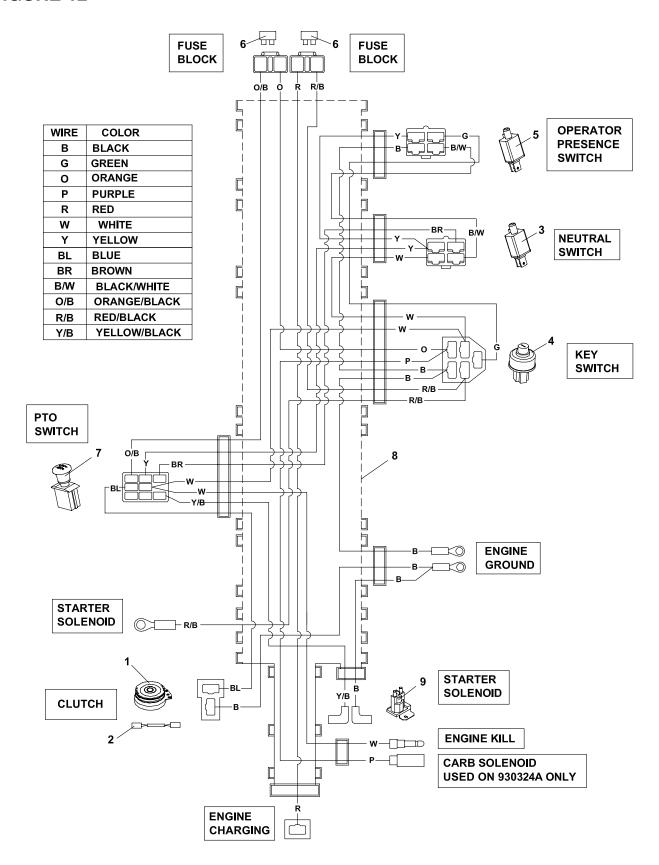
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
10-1	4122168	LABEL-CONTROL PNL HY	D 1				
10-2	2000672	LABEL-PARKING BRAKE	1				
10-3	2000570	LABEL-WARN FUEL PICT	1				
10-4	340830	DECAL-CAUTION SPANISH	1 1				
10-5	2000571	LABEL-IMPORTANT	1				
10-6	4124250	LABEL-DECK COVER	1				
10-7	2000572	LABEL-WARNING BLADES	1				
10-8	2000677	LABEL-DANGER/WARNING	G 1				
10-9	2000678	LABEL-ROT PRTS/B-WSHI	₹ 1				
	(LOCATED L	INDER BELT COVER)					
10-10	2000704	LABEL-MIDSIZE PATENT	1				
	2000673	DECAL - OP MAN/TIRES	1				
	22000661	LABEL-HYD TANK WARN	1				
	34109863	LABEL-H.O.C. FLOATING	2				
	14124265	LABEL-BUNTON, 7.5	2				
10-15	4116761	LABEL-MADE IN USA	1				





ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
11-1	2721110 (INCLUDES	CLUTCH-ELECTRIC TEM 2)	1				
	2720949 4131438 (INCLUDES	ASSY-CLUTCH WIRE HARNESS-MIDSIZE ITEM 6)	1				
11-5 11-6 11-7	38148 38383 148082-10 2721505 108208	SWITCH-ENGINE STOP SWITCH-N.C. FUSE 10 AMP SWITCH-PTO SWITCH	1 1 1 1				

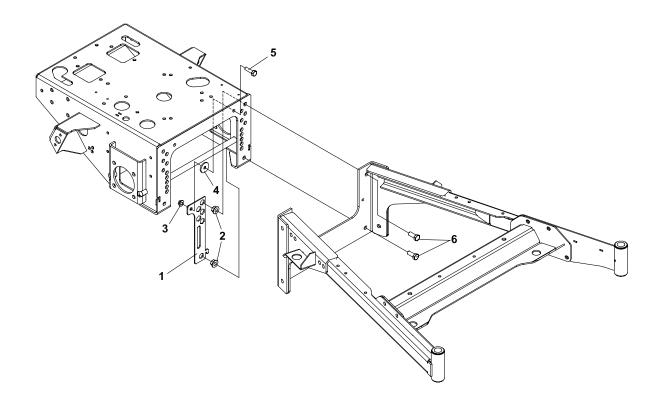
Hydro Midsize





ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	2721110 (INCLUDES I	CLUTCH-ELECTRIC TEM 2)	1				
12-3 12-4 12-5 12-6 12-7 12-8	2308094 148082-20 2721505 4128561	ASSY-CLUTCH WIRE SWITCH DBL POLE KEY SWITCH SWITCH-NCNC DBL POLE FUSE 20 AMP SWITCH-PTO HARNESS-HYDRO MAIN	1 1 1 2 1				
12-9 12-10	38665 *108061-15	QTY OF 2 OF ITEM 6) SOLENOID-STARTER CABLE-BATTERY 6.5 RED ER SOLENOID TO STARTER					
	ROM (+) POS	CABLE-BTTRY W/CONDUI SITIVE BATTERY TERMINAL ARTER SOLENOID)					
	ROM (-) NEG	CABLE-BTTRY 31.5 BLACK SATIVE BATTERY TERMINA ENGINE BLOCK)					

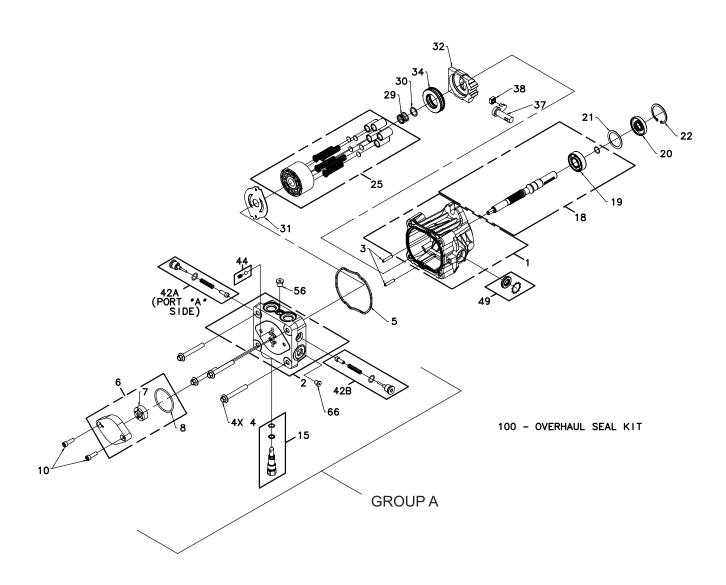
* NOT ILLUSTRATED



CUTTERDECK MOUNTING



						FIG	URE 13
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
13-1 13-2 13-3 13-4 13-5	2721991.7 64246-04 64141-4 64163-82 64123-50	DESCRIPTION PLATE-NUT NUT-WHIZ M12-1.75 NUT-WLF 3/8-16 WSHR-FLAT.406X1.44X9 BOLT-HEX 3/8-16X1 BLT-FLG HD M12-1.75 X	2 12 2 9GA 2 2	ITEM	PART NO.		





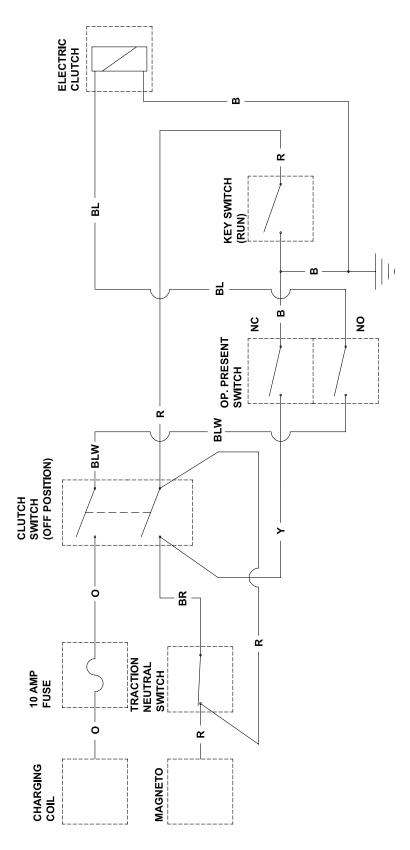
4112782 PUMP-HYDRO RH ILLUSTRATED AS SHOWN

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

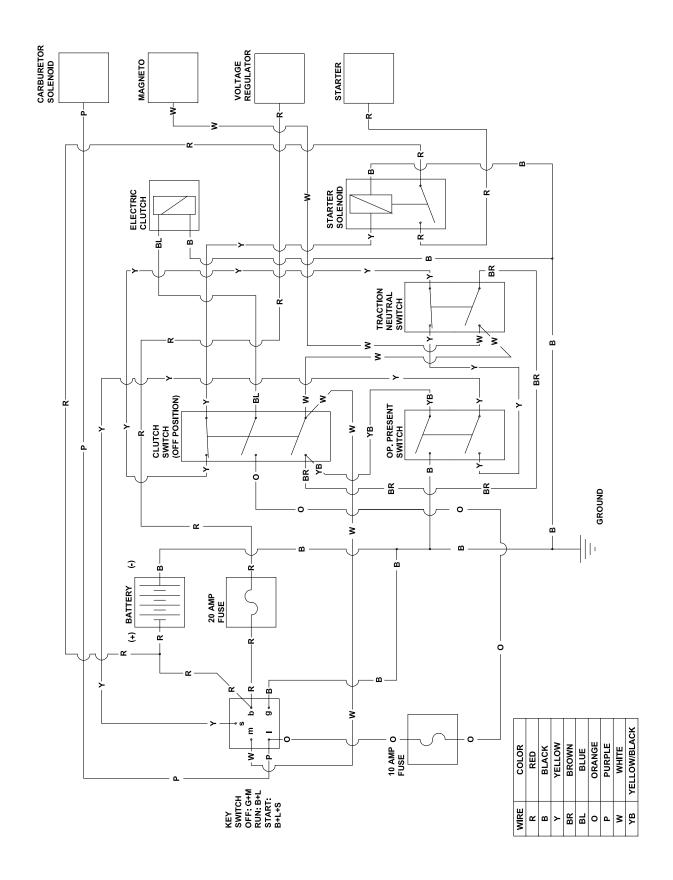
ITEM	HYDROGEAR PART NO.	TEXTRON PART NO.	DESCRIPTION	QTY
14-1	70516		HOUSING KIT	1
14-2	70517		END CAP KIT	1
14-3	50641		STRAIGHT HEADLESS PIN	2
14-4	50969	2721615-01	FLANGE BOLT M8-1.25 X 60	4
14-5	51232	2721615-02	HOUSING O-RING	1
14-6	2513027	2721615-03	CHARGE PUMP KIT (STD)	1
14-7	50273	2721615-04	STD GEROTOR ASSEMBLY	1
14-8	9004101-1340	2721615-05	O-RING	1
14-10	50095	2721615-06	SOCKET HEAD M6-1.0 X 20	2
14-15	2513030		BYPASS VALVE KIT (BLANK)	1
14-18	70521	2721615-07	PUMP SHAFT KIT	1
14-19	50315		BALL BEARING 17 X 40 X 12	1
14-20	51161		LIP SEAL 17 x 40 x 12	1
14-21	50951		SPACER	1
14-22	50329		RETAINING RING	1
14-25	70331	38345-12	CYLINDER BLOCK KIT	1
14-29	2003014		BLOCK SPRING	1
14-30	2003017		BLOCK THRUST WASHER	1
14-31	51246	2721615-09	VALVE PLATE	1
14-32	2003087	2721615-10	SWASHPLATE	1
14-34	50551	2721615-11	BALL THRUST BEARING	1
14-37	2003005	2721615-12	TRUNNION ARM	1
14-38	2000015	2721615-13	SLOT GUIDE	1
14-42 <i>F</i>	A 2510027	2721615-14	CHECK VALVE KIT (.031")	1
14-42E	3 2510050	2721615-15	CHECK VALVE KIT (BLANK)	1
14-44	70403	2721615-16	CHARGE RELIEF VALVE KIT	1
14-49	2513043	2721615-17	TRUNNION SEAL/RETAINER	KIT 1
14-56	9005110-4400		STRAIGHT THREAD PLUG	1
14-66	9005110-3100		5/16 SAE PLUG	1
14-100	70525	2721615-18	OVERHAUL SEAL KIT	1

REF. 4115548

WIRE	COLOR
R	RED
В	BLACK
Υ	YELLOW
BR	BROWN
BL	BLUE
0	ORANGE
BLW	BLUE W/WHITE STRIPE



REF. 4115550



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A worldwide dealer network and factory-trained technicians backed by Textron Parts Xpress provide reliable, high-quality product support.

