BUNTON[®] SETUP, PARTS & MAINTENANCE MANUAL HYDRO MIDSIZE

Power Unit Models:

630325	Power Unit 15HP Kawasaki Hydro Z-Control
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630326 Power Unit 17HP Kawasaki Hydro Z-Control

630327 Power Unit 21HP Kawasaki Hydro ES Z-Control

630329 Power Unit 17HP Kawasaki Hydro ES Z-Control

(Operation & Safety Manual: 4118420)



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.



4118421 REV C

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.

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.

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

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.



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.

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



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.

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

A WARNING

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.



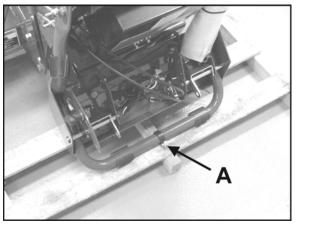
MODEL NUMBER: This number appears on sales literature, technical manuals and price lists.

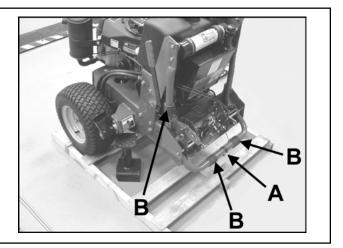
SERIAL NUMBER: This number appears only on your mower. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information.



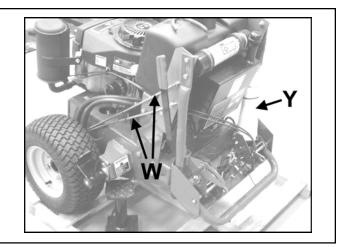
GENERAL NOTE: FRONT, REAR, RIGHT HAND AND LEFT HAND REFERENCES BELOW ARE WITH RESPECT TO AN OPERATOR AT THE CONTROLS.

- 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 lag bolt **A** from shipping clamp.
- 3. Raise the rear of the machine and support with jackstands as shown. Remove and discard shipping clamp **A** and shipping sleeves **B**.





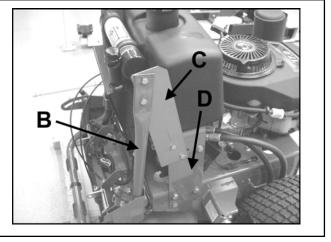
 Remove wire ties from the two rods W on left and one rod W on the right side of the machine. Remove wire tie from the parts bag Y. Remove the rods W from the upper handle shipping bracket and the parts bag, and set them aside for later use.



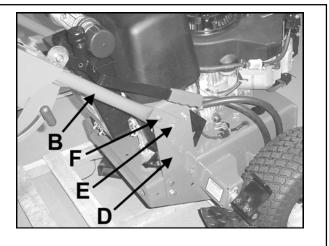
ASSEMBLY/SET-UP INSTRUCTIONS

Hydro Midsize

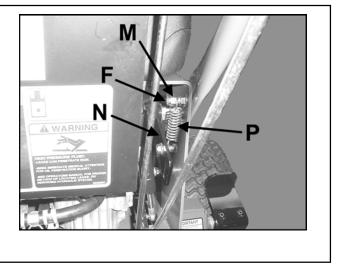
 Remove upper handle B from shipping bracket C. Place upper handle on crate bottom. Remove and discard shipping bracket C from lower handle D. Retain fasteners removed for later use.



 Install upper handle B to lower handle D using (2) 3/8-16 X 1" bolts and (2) 3/8-16 nuts removed in Step 5 at location E, and (2) 3/8-16 X 1-1/2" bolts and (2) 3/8-16 nuts at location F.

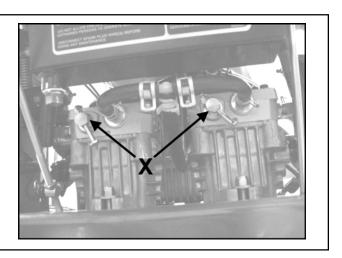


 Install (2) springs P and (2) 3/8-16 nylon locknuts M from parts bag onto bolt F on each side of the machine. Attach springs to bolts on neutral return brackets N as shown.

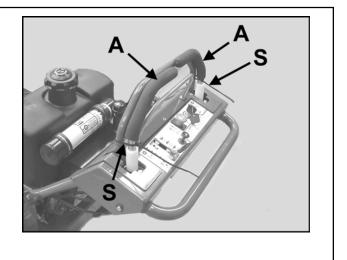




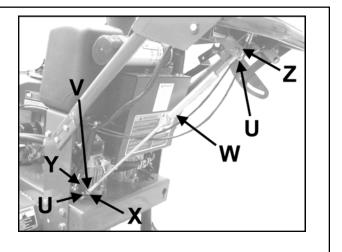
8. Open the bypass valves **X** on each pump by rotating handle counter-clockwise two revolutions.



- 9. Remove the power unit from the crate and support the rear of the power unit with a jack stand.
- Cut and remove wire ties **S** from the control levers **A**. Place the control levers in the neutral position in the control panel.

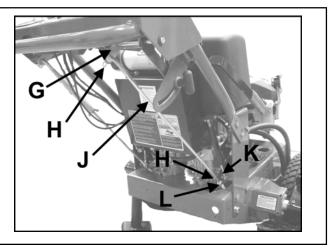


 Install the tracking control assembly W removed in Step 4 on the left hand control Z using pins U. Adjust swivel X to align with pump arm Y. Install pin U and tighten jam nut V.



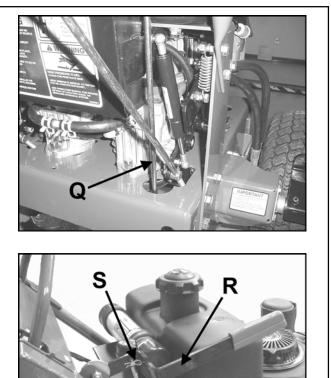
ASSEMBLY/SET-UP INSTRUCTIONS

 Install the right hand control rod J, the shorter of the remaining rods removed in Step 4, on the right hand control G using (2) pins H from the parts bag. Adjust swivel L to align with pump arm K. Install pin H.



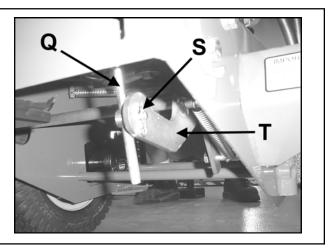
Hydro Midsize

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

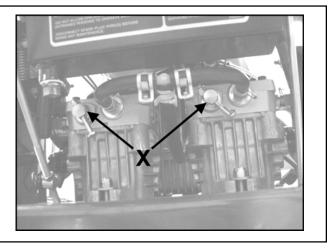




14. Connect swivel on threaded end of brake rod Q to the brake arm T and secure in place with hairpin S as shown. Adjust swivel to provide adequate braking when the brake control arm is engaged. See adjustment section of this manual.



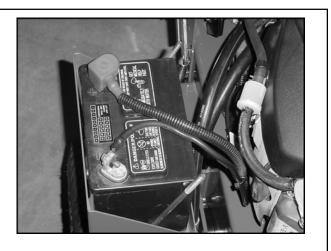
15. Close bypass valves **X** by rotating clockwise until firmly seated.



16. On Electric Start Models Only

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





ASSEMBLY/SET-UP INSTRUCTIONS



24. Attach cutterdeck per the instructions on the following pages then return to Step 25 of this section.

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

26. 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

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

28. Adjust tire pressure in drive wheels and casters to 14 psi (1 kg/cm²).

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

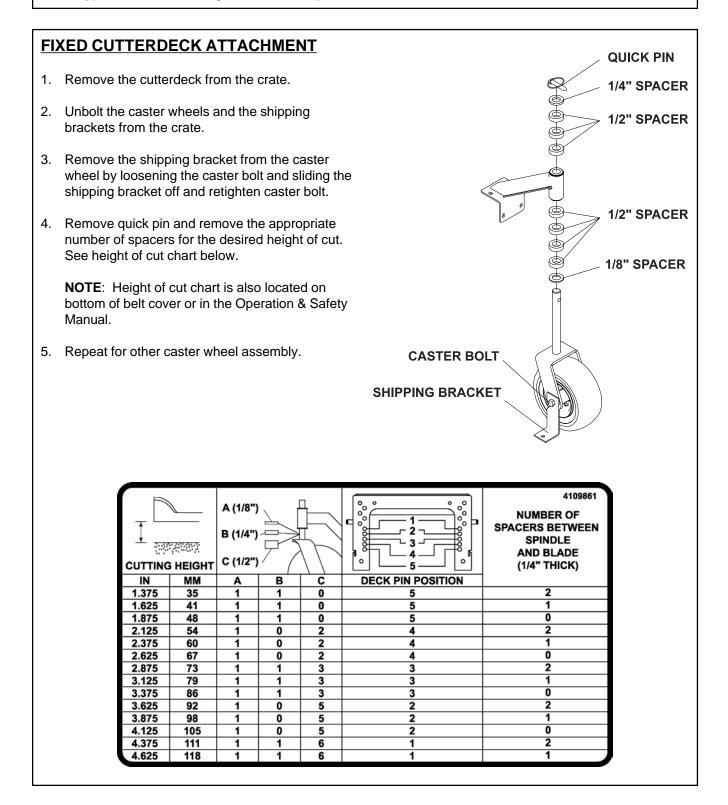
NOTICE: Special setup instructions.

- 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.



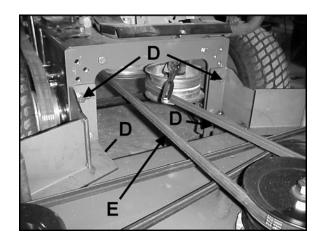
ASSEMBLY/SET-UP INSTRUCTIONS

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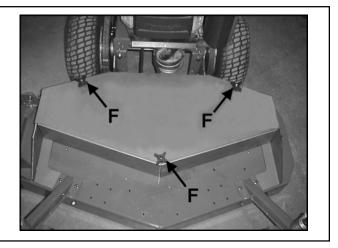
- 6. Remove belt cover and set aside.
- Block the rear of the cutterdeck with the appropriate height block for the desired height of cut B. See Support Block Chart below.

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 at 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.

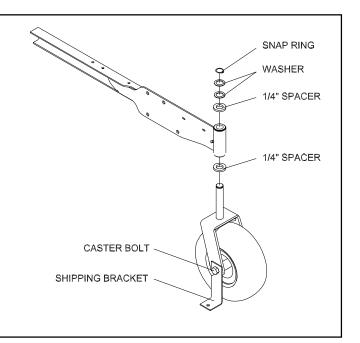


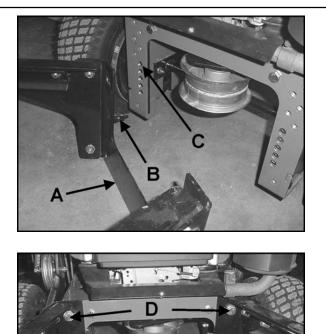
- 11. Reinstall belt cover and fasten in place with knobs **F**.
- 12. Remove support block from the rear of cutterdeck.
- 13. Remove support from the rear of the power unit.



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.
- 8. Attach cutterdeck cradle to power unit using (4) M12-1.75 X 35 bolts at **D** and tighten securely.
- 9. Remove support from rear of power unit.





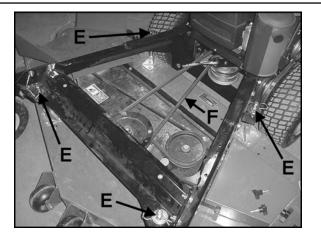
ASSEMBLY/SET-UP INSTRUCTIONS

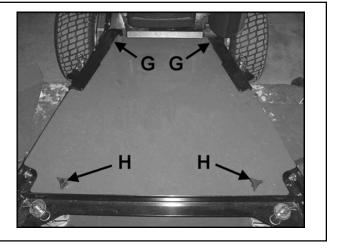
Hydro Midsize

- 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.
- 13. 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 of 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**.



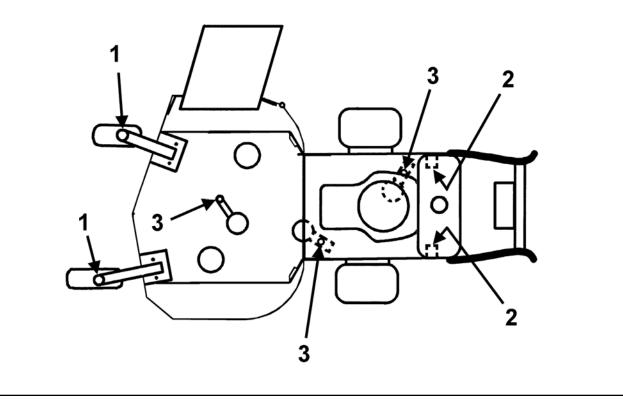




MACHINE LUBRICATION

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.



Hydro Midsize

ENGINE

DAILY

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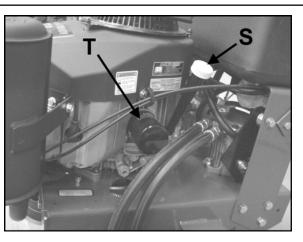
Remove the dipstick **S** and check that the oil level reaches the full mark. If necessary, top off with fresh oil. To obtain the correct oil level, the machine must be level. See engine manufacturer's manual for proper oil viscosity and grade. DO NOT OVER FILL!

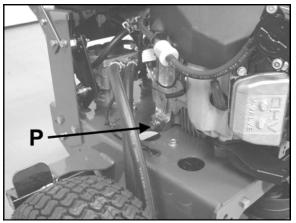
AFTER THE FIRST 5 WORKING HOURS

While the engine is warm, remove the drain plug P and drain the crankcase. Replace oil filter T. 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.

- For Kawasaki FH641V, order: 99924-2045-03.
 - For Kawasaki FH500V, order: 99924-2045-03.
- For Kawasaki FH451V, order: 99924-2045-03.



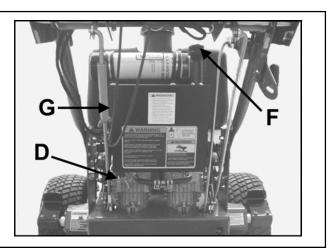


HYDRAULIC RESERVOIR CHECK, DRAIN AND FILL

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**.



MAINTENANCE

Hydro Midsize

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.

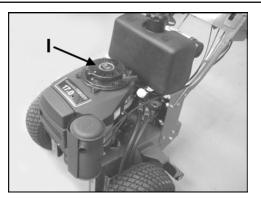
Air Cleaner (every 25 hours)

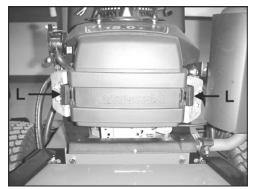
Service more frequently if operating in very dusty or dry conditions. Extensive damage will result from operating with a dirty air cleaner.

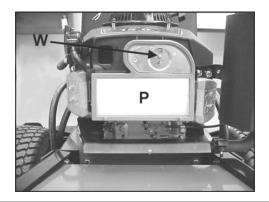
- 1. Remove the air cleaner cover by releasing latches L.
- Remove the foam precleaner P by sliding it off the paper cartridge. Wash in kerosene or detergent and water. Dry thoroughly. Saturate in engine oil. Squeeze to remove excess oil.
- 3. Reinstall all parts.

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.

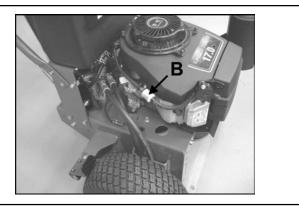






In-Line Fuel Filter

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

- **NOTE:** Follow these instructions to prevent injury when bolt releases.
- 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.

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

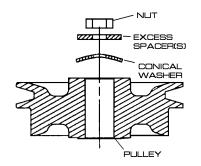
BLADE RE-INSTALLATION

- 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.
- 3. Place remaining spacer(s) on the spindle bolt above the cutterdeck between the conical washer and nut (as shown). Replace nut and tighten to 70 ft-lbs.

SPARK PLUG

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





Cutterdeck Pulley Assembly

Hydro Midsize

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*	Х	SEE	ENGINE MA		RER'S MAN	UAL*	
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					
Lubricate All Points				Х			

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

Hydro Midsize

NOTES

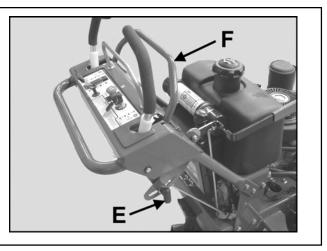
GENERAL	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS
GENERAL	DATE	пкэ	DATE	пкэ	DATE	пкэ	DATE	пкз	DATE	пко	DATE	пкэ
Check tire pressures												
Lubricate all points												
Check nuts & bolts												
ENGINE												
Check oil level												
Change oil												
Clean air cleaner element												
Clean cooling fins												
Replace air cleaner element												
Clean & gap spark plugs												
NOTE	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.

Speed Control Bar

The speed control bar F is held by friction pads. If the setting will not hold, tighten knob E to increase friction on speed control bar F.



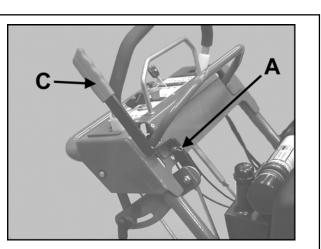
PARKING BRAKE - Apply parking brakes and open the bypass valves on the hydraulic pumps. Try to push the machine forward. If wheels rotate, adjust brakes as follows.

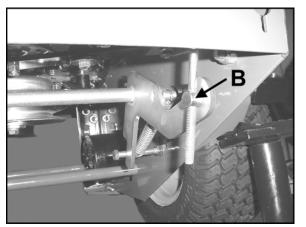
TO ADJUST:

- 1. Remove the hairpin cotter **A** from the brake rod at the brake lever **C** 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 **A** removed in Step 1.
- 4. Apply parking brakes and try to push the machine forward. If wheels rotate, readjust brakes.
- 5. Close bypass valves on the hydraulic pumps.







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

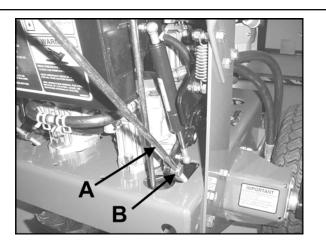
STEP 1 - Set Neutral

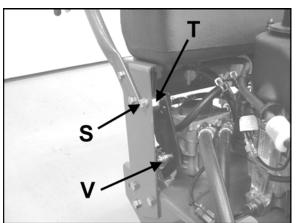
Neutral is set at the factory. If it should require adjustment, raise the wheels off the ground by supporting the machine on jackstands or blocks. Disconnect the control rod **A** at each pump end. Loosen bolt **S** securing the neutral plate eccentric shaft just enough to turn the shaft. Start the engine 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 Step 2.

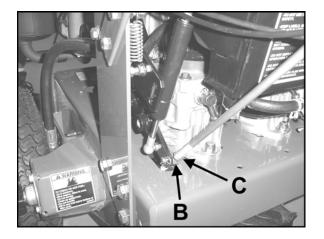
STEP 2 - Adjust Control Rods

First adjust neutral, as outlined in Step 1. Set control levers to neutral. Adjust swivels **B** on lower ends of control rods **A** so they just go into the holes on the pump arm control plates.

After adjusting swivel **B** on left side, tighten jam nut **C**.









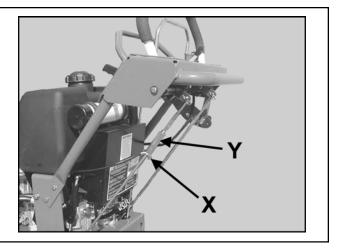


TRACKING ADJUSTMENT TURNBUCKLE (L)

The tracking adjustment turnbuckle provides tracking control to correct for any hydraulic circuit or linkage differences from one side to the other.

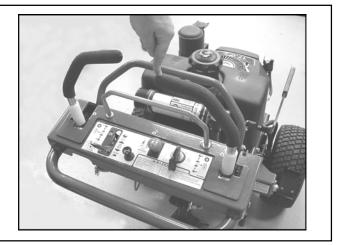
To correct tracking:

- 1. Loosen wingnut K.
- 2. Rotate the tracking adjustment turnbuckle L to the right to make the machine track to the right.
- 3. Rotate the tracking adjustment turnbuckle L to the left to make the machine track to the left.
- 4 Tighten wingnut K



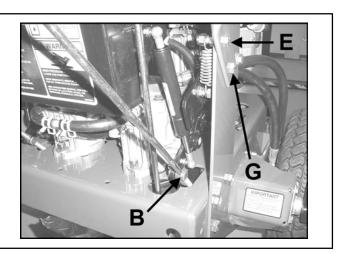
CONTROL LEVERS

The control levers are controlled by spring tension, and require no adjustment.



HANDLE BAR HEIGHT ADJUSTMENT

To adjust handle bar height: Remove swivel **B** at each pump control arm and the parking brake rod. Remove bolts **G** and loosen bolts **E** on each side of handlebars. Raise or lower as required. Reposition upper handle and reinsert bolts at location **G** into appropriate hole in lower handle and tighten. Readjust control rods and swivels and reinstall. Readjust parking brake and rod.



Hydro Midsize

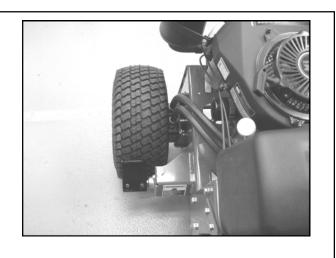
TRACK WIDTH ADJUSTMENT

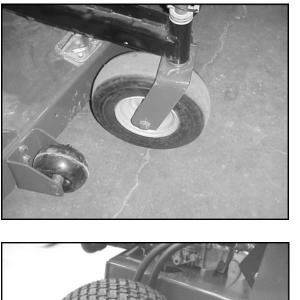
The track width originally set from the factory can be increased an additional 3-1/4" overall by performing the following steps.

- 1. Loosen wheel lug nuts on both drive tires.
- 2. Raise rear of unit so that drive tires are off the ground. Support the unit with jack stands.
- 3. Remove wheel lug nuts and wheels. Reattach wheels with the tires rotated so the wheel offset is the opposite of when they were previously installed. Install and tighten lugnuts 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.

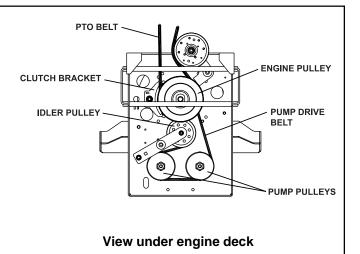
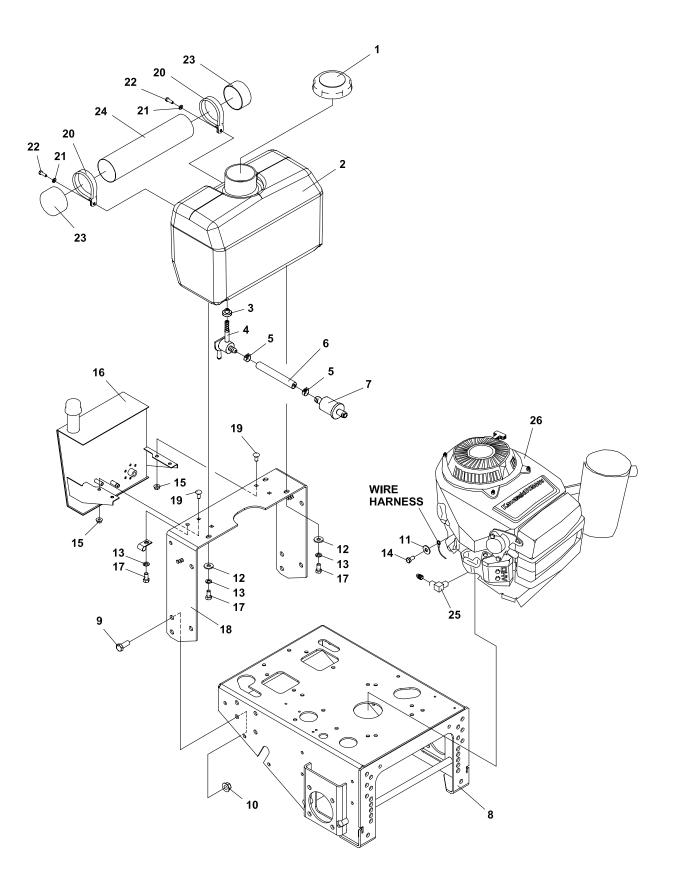


FIGURE 1



Hydro Midsize

UPPER ENGINE DECK ASSY



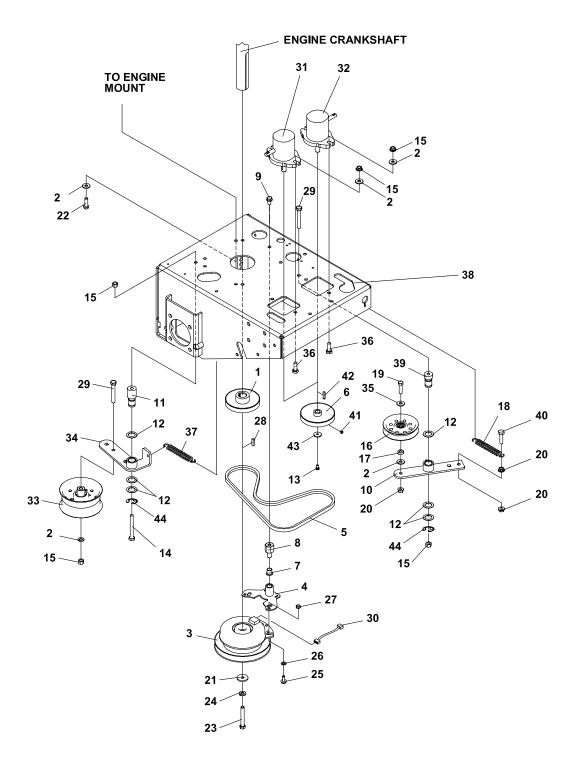
FIGURE 1

_

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1-1 1-2	4130320 4116345 (INCLUDES I	CAP-FUEL GASOLINE 3.5 TANK-FUEL TEMS 3 & 4)	1 1				
1-3 1-4 1-5 1-6	•	GROMMET-FUEL TANK S FUEL SHUT-OFF VALV HOSE CLAMP HOSE,.25IDX.50OD X 22"L N 15 HP & 17HP MODELS) N 21HP MODELS)	1 1 2 1				
1-11 1-12 1-13 1-14 1-15 1-16 1-17 1-18 1-19 1-20 1-21 1-22 1-23 1-24 1-25 1-26	KAW #99924 2721379 2722214 2722212	ENG-21HP KAW W/CHARG OILFILTER AIR FILTER PAPER ELEME FILTER FOAM PRECLEAN ANUAL 21 HP	6 6 1 3 4 1 4 5 1 4 2 2 2 1 6 8 7 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1				
* A	VAILABLE TH	IROUGH KAWASAKI DEAL	ER.				



FIGURE 2



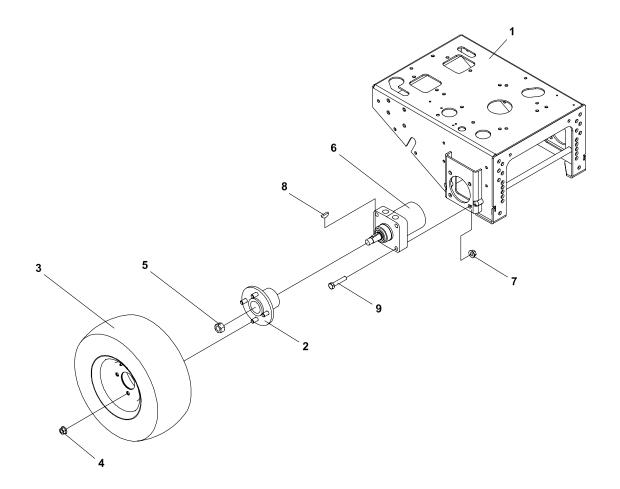
Hydro Midsize

LOWER ENGINE DECK ASSY/CLUTCH

FIGURE 2

ITEN	I 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	10				
2-3	2721110	CLUTCH-ELECTRIC	1				
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				
2-7	38304-03	BRG-FLANGED PLASTIC	1				
2-8	4121540	PIN-CLUTCH	1				
2-9	64139-21	BLT-WLF 3/8-16X3/4	1				
	2721641.7	WLDMT-IDLER	1				
	4116712	PIN-PIVOT	1				
	64163-65	WASHER890X1.375X180	GA 6				
	64205-013	BLT-MET M6-1 X 12	2				
	64123-138	BLT-HEX 3/8-16X3-3/4	1				
	64229-03	LOCKNUT-NYLON 3/8-16	7				
	2308000	PULLEY-IDLER 4.00 EOD	1				
	33148-01	SPACER	1				
	38219	SPRING-TENSION	1				
	64123-87	BLT-HEX 3/8-16 X 1-3/4	1				
	64141-4	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				
	64163-03	WSHR256ID X.62DX18G					
	64229-02	LOCKNUT-NYLON 5/16-18					
	64164-12	1/4X1/4X1 SQ END KEY	1				
	64123-75	BOLT, 3/8-16X3 HEX	2				
	2720949	ASSY-CLUTCH WIRE	1				
	2721615	PUMP-HYDRO LH	1				
	4112782	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					
	4131068.5	WLDMT-DECK ENG HYDE					
	4116691 64123-70		1				
-		BOLT-HEX 3/8-16X1-1/2	1				
	64044-6 64238-03	SCREW-SET 5/16-18 X 1/2	14 2				
	64238-03 64209-09	KEY-MET 5MM SQ X 28 WASHER-CONICAL SPRI	-				
	64209-09 64221-04	E-RING.875	NG 2 2				
2-44	04221-04		2				

FIGURE 3



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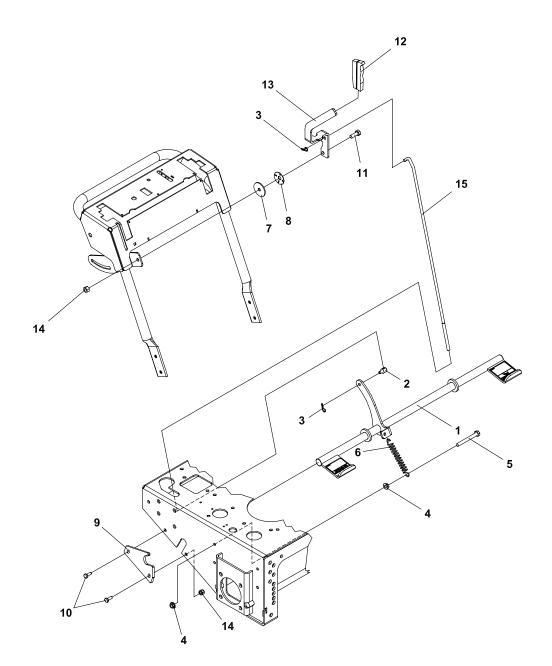
DRIVE WHEELS

Hydro Midsize

FIGURE 3

I PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	WLDMT-HUB ASSY-WHEEL 16 X 7.50 X TIRE-16X7.50X8 MLTI TRC	2 8 2 ; 1				
	WHEEL W/ DUAL VALVES NUT-HEX FLANGED 1/2-20 NUT-HEX 3/4-16 2A	1) 8 2				
	4131068.5 2721620.7 2721956 2721956-01 2721956-02 64267-01 64025-06 2308051 64141-13 64164-28	4131068.5 WLDMT-DECK ENG HYDR 2721620.7 WLDMT-HUB 2721956 ASSY-WHEEL 16 X 7.50 X 2721956-01 TIRE-16X7.50X8 MLTI TRC 2721956-02 WHEEL W/ DUAL VALVES 64267-01 NUT-HEX FLANGED 1/2-20 64025-06 NUT-HEX 3/4-16 2A 2308051 MOTOR-WHEEL ROSS MF 64141-13 NUT WLF 1/2-13 64164-28 #808 WOODRUFF KEY	4131068.5 WLDMT-DECK ENG HYDRO 1 2721620.7 WLDMT-HUB 2 2721956 ASSY-WHEEL 16 X 7.50 X 8 2 2721956-01 TIRE-16X7.50X8 MLTI TRC 1 2721956-02 WHEEL W/ DUAL VALVES 1 64267-01 NUT-HEX FLANGED 1/2-20 8 64025-06 NUT-HEX 3/4-16 2A 2 2308051 MOTOR-WHEEL ROSS MF 2 64141-13 NUT WLF 1/2-13 8 64164-28 #808 WOODRUFF KEY 2	4131068.5 WLDMT-DECK ENG HYDRO 1 2721620.7 WLDMT-HUB 2 2721956 ASSY-WHEEL 16 X 7.50 X 8 2 2721956-01 TIRE-16X7.50X8 MLTI TRC 1 2721956-02 WHEEL W/ DUAL VALVES 1 64267-01 NUT-HEX FLANGED 1/2-20 8 64025-06 NUT-HEX 3/4-16 2A 2 2308051 MOTOR-WHEEL ROSS MF 2 64141-13 NUT WLF 1/2-13 8 64164-28 #808 WOODRUFF KEY 2	4131068.5 WLDMT-DECK ENG HYDRO 1 2721620.7 WLDMT-HUB 2 2721956 ASSY-WHEEL 16 X 7.50 X 8 2 2721956-01 TIRE-16X7.50X8 MLTI TRC 1 2721956-02 WHEEL W/ DUAL VALVES 1 64267-01 NUT-HEX FLANGED 1/2-20 8 64025-06 NUT-HEX 3/4-16 2A 2 2308051 MOTOR-WHEEL ROSS MF 2 64141-13 NUT WLF 1/2-13 8 64164-28 #808 WOODRUFF KEY 2	A PART NO. DESCRIPTION QTY ITEM PART NO. DESCRIPTION 4131068.5 WLDMT-DECK ENG HYDRO 1 2 3 4 <t< td=""></t<>

FIGURE 4



Hydro Midsize

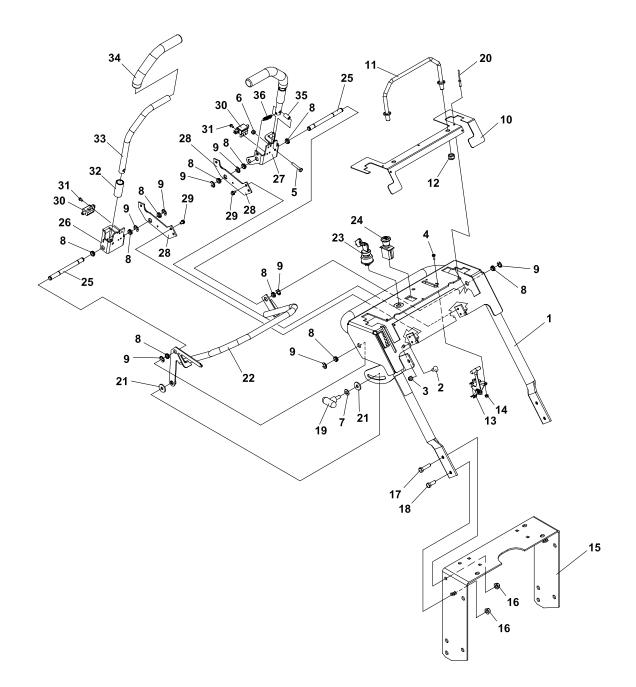
PARKING BRAKE

Hydro Midsize

FIGURE 4

PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
4131746	WLDMT-BRAKE SHAFT	1				
33103	SWIVEL	1				
64168-2	COTTER-HAIRPIN.08X1.19) 2				
64001-6	NUT-HEX JAM 3/8-16	2				
64123-138	BLT-HEX 3/8-16X3-3/4	1				
2188131	SPRING-EXTENSION	1				
64163-17	25/64 X 2 X 11GA WASHR	1				
64171-2	WAVE WASHER	1				
4131072.7	PLATE-BRK SHFT RETNR	2				
64123-50	BOLT-HEX 3/8-16X1	4				
64123-16	BLT-HEX 3/8-16X1-1/4	1				
38404-01	GRIP,CONTROL LEVER	1				
4116495.7	LEVER-BRAKE ARM	1				
64229-03	LOCKNUT-NYLON 3/8-16	5				
4132133	ROD-BRAKE	1				
	4131746 33103 64168-2 64001-6 64123-138 2188131 64163-17 64163-17 64171-2 4131072.7 64123-50 64123-16 38404-01 4116495.7 64229-03	4131746 WLDMT-BRAKE SHAFT 33103 SWIVEL 64168-2 COTTER-HAIRPIN.08X1.19 64001-6 NUT-HEX JAM 3/8-16 64123-138 BLT-HEX 3/8-16X3-3/4 2188131 SPRING-EXTENSION 64163-17 25/64 X 2 X 11GA WASHR 64171-2 WAVE WASHER 4131072.7 PLATE-BRK SHFT RETNR 64123-50 BOLT-HEX 3/8-16X1 64123-16 BLT-HEX 3/8-16X1 64123-50 BOLT-HEX 3/8-16X1 64123-16 BLT-HEX 3/8-16X1 64123-17 LEVER-BRAKE ARM 64123-18 LOCKNUT-NYLON 3/8-16	4131746 WLDMT-BRAKE SHAFT 1 33103 SWIVEL 1 64168-2 COTTER-HAIRPIN.08X1.19 2 64001-6 NUT-HEX JAM 3/8-16 2 64123-138 BLT-HEX 3/8-16X3-3/4 1 2188131 SPRING-EXTENSION 1 64163-17 25/64 X 2 X 11GA WASHR 1 64171-2 WAVE WASHER 1 4131072.7 PLATE-BRK SHFT RETNR 2 64123-50 BOLT-HEX 3/8-16X1 4 64123-16 BLT-HEX 3/8-16X1 4 64123-17 DLT-HEX 3/8-16X1 1 64123-50 BOLT-HEX 3/8-16X1 1 64123-16 BLT-HEX 3/8-16X1 1 64123-17 DLT-HEX 3/8-16X1 1 64123-16 BLT-HEX 3/8-16X1 1 64123-16 BLT-HEX 3/8-16X1 1 64123-17 DCONTROL LEVER 1 64229-03 LOCKNUT-NYLON 3/8-16 5	4131746 WLDMT-BRAKE SHAFT 1 33103 SWIVEL 1 64168-2 COTTER-HAIRPIN.08X1.19 2 64001-6 NUT-HEX JAM 3/8-16 2 64123-138 BLT-HEX 3/8-16X3-3/4 1 2188131 SPRING-EXTENSION 1 64163-17 25/64 X 2 X 11GA WASHR 1 64171-2 WAVE WASHER 1 4131072.7 PLATE-BRK SHFT RETNR 2 64123-16 BLT-HEX 3/8-16X1 4 64123-50 BOLT-HEX 3/8-16X1 4 64123-16 BLT-HEX 3/8-16X1 1 38404-01 GRIP,CONTROL LEVER 1 4116495.7 LEVER-BRAKE ARM 1 64229-03 LOCKNUT-NYLON 3/8-16 5	4131746 WLDMT-BRAKE SHAFT 1 33103 SWIVEL 1 64168-2 COTTER-HAIRPIN.08X1.19 2 64001-6 NUT-HEX JAM 3/8-16 2 64123-138 BLT-HEX 3/8-16X3-3/4 1 2188131 SPRING-EXTENSION 1 64163-17 25/64 X 2 X 11GA WASHR 1 64171-2 WAVE WASHER 1 4131072.7 PLATE-BRK SHFT RETNR 2 64123-50 BOLT-HEX 3/8-16X1 4 64123-16 BLT-HEX 3/8-16X1 4 64123-17 DEVENTROL LEVER 1 38404-01 GRIP,CONTROL LEVER 1 64229-03 LOCKNUT-NYLON 3/8-16 5	4131746 WLDMT-BRAKE SHAFT 1 33103 SWIVEL 1 64168-2 COTTER-HAIRPIN.08X1.19 2 64001-6 NUT-HEX JAM 3/8-16 2 64123-138 BLT-HEX 3/8-16X3-3/4 1 2188131 SPRING-EXTENSION 1 64163-17 25/64 X 2 X 11GA WASHR 1 64171-2 WAVE WASHER 1 4131072.7 PLATE-BRK SHFT RETNR 2 64123-50 BOLT-HEX 3/8-16X1 4 64123-16 BLT-HEX 3/8-16X1 4 64123-16 BLT-HEX 3/8-16X1 4 64123-16 BLT-HEX 3/8-16X1 1 64123-16 BLT-HEX 3/8-16X1 1 64123-16 BLT-HEX 3/8-16X1 1 64123-16 BLT-HEX 3/8-16X1-1/4 1 38404-01 GRIP,CONTROL LEVER 1 4116495.7 LEVER-BRAKE ARM 1 64229-03 LOCKNUT-NYLON 3/8-16 5

FIGURE 5



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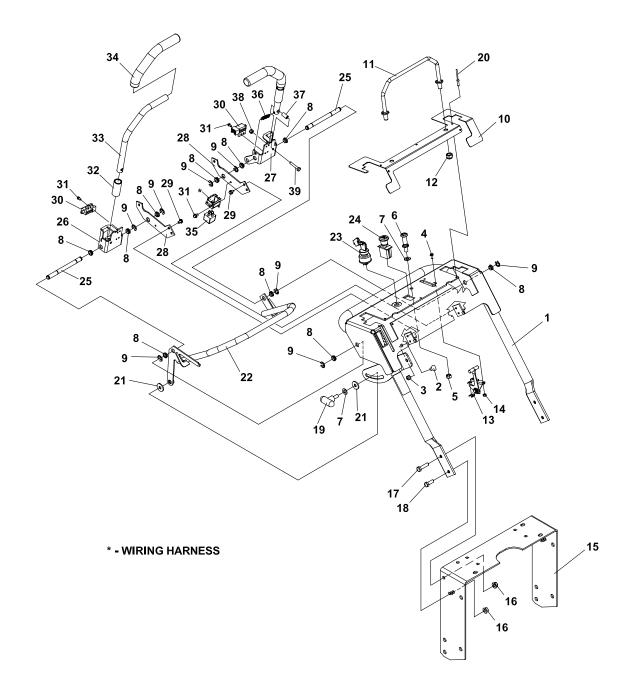
RECOIL START UPPER HANDLE

Hydro Midsize

FIGURE 5

ITEM	I PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
5-1	4120259	S-UP HNDLE W/ LABELS	1				
5-2	64018-9	BLT-CRG 5/16-18X3/4 G5	1				
5-3	64229-02	LOCKNUT-NYLON 5/16-18	1				
5-4	64152-46	SCREW-SLT HH 10-24X1/2	2				
5-5	64123-07	BOLT, 1/4-20X1-1/2 HEX	2				
5-6	64229-01	LOCKNUT-NYLON 1/4-20	2				
5-7	64163-61	WSHR .81X.406X16GA	1				
5-8	4116398	BSHG-IGUS, .50 IDX.13 TH	K 10				
5-9	64221-05	E-CLIP, .328 ID	8				
5-10	4118586.5	PANEL-COVER, HYDRO	1				
5-11	4118392	ROD-REVERSE ASSIST	1				
5-12	64229-05	LOCKNUT, 1/2-13 NYLON	2				
5-13	38357-06	CONTROL-THROTTLE	1				
5-14	64025-15	NUT-HEX #10-24 KEPS	2				
5-15	4120917.5	HANDLE-LOWER, HYDRO	1				
5-16	64141-4	NUT-WLF 3/8-16	4				
5-17	64123-70	BOLT-HEX 3/8-16X1-1/2	2				
5-18	64123-50	BOLT-HEX 3/8-16X1	2				
5-19	4114727	KNOB-SPEED CONTROL	1				
5-20	64215-05	RIVET-POP IFI# 64	5				
5-21	2308066	WSHR-FRICTION	2				
5-22	4116405.5	WLDMT-SPEED CONTROL	. 1				
5-23	38148	SWITCH-ENGINE STOP	1				
5-24	2721505	SWITCH-PTO	1				
5-25	4116374	BAR-HYDRO CONTROL	2				
5-26	4116404	WLDMT-RH CNTRL, HYDRO	D 1				
5-27	4116403	WLDMT-LH CNTRL, HYDRO					
5-28	4116953.5	PLATE-PIVOT SHAFT	2				
	64152-23	1/4-20X3/8 LG SP SCREW	6				
5-30	38383	SWITCH-NC	2				
5-31	64197-015	BLT-TDFM 10-32X1/2 TORX					
5-32	4119625	BHSG-CONTROL LEVER	2				
	4116376	TUBE-CONTROL	2				
	4117741	GRIP-MOTION LVR, MIDSZ					
	4116380	SPACER-CONTROL	2				
5-36	4118378	SPRING-EXTENSION	2				

FIGURE 6

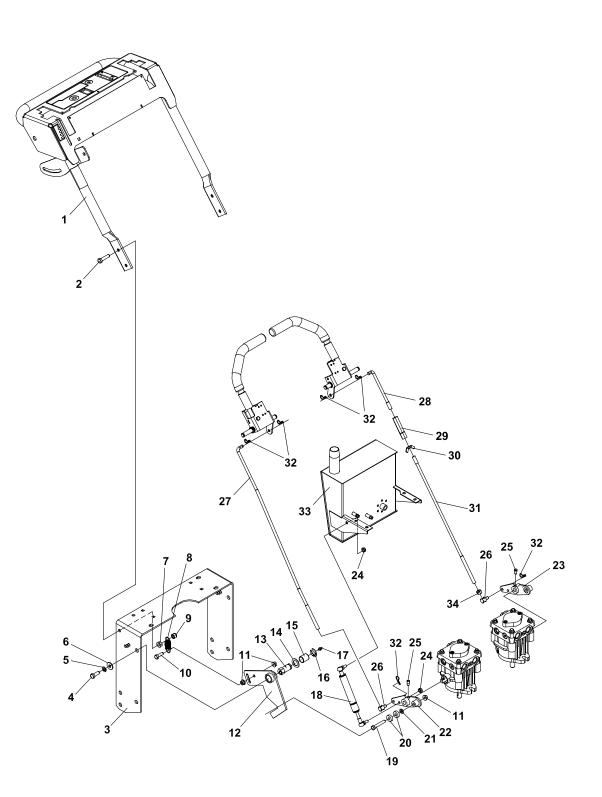


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ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	
5-1	4120258 (USED ON 63	S-UP HNDL W/ LBLS (21 HF 30327)	r) 1	5-34	4116376 4117741 2722325	-
	4120259 (USED ON 63	S-UP HNDL W/ LBLS, HYDR 30329)	1	5-36 5-37	4118378 4116380 64229-01	
5-3 5-4 5-5	64152-46 64025-04 108009-05 64163-61 (ITEMS 5 & 6	BLT-CRG 5/16-18X3/4 G5 LOCKNUT-NYLON 5/16-18 SCREW-SLT HH 10-24X1/2 NUT-3/8-24 HEX CONTROL-CHOKE 55 WSHR .81X.406X16GA USED ON 630327 ONLY) M 7 IS (1) ON 630329)	1 2 1 2		64123-07	I
5-9 5-10 5-11 5-12	4116398 64221-05 4118586.5 4118392 64229-05 118020-14 (USED ON 63	BSHG-IGUS, .50IDX.13THK E-CLIP, .328 ID PANEL-COVER, HYDRO ROD-REVERSE ASSIST LOCKNUT, 1/2-13 NYLON CONTROL-THROTTLE 53.0 30327)	10 8 1 2 01			
	38357-06 (USED ON 63	CONTROL-THROTTLE 30329)	1			
5-15 5-16 5-17 5-18 5-20 5-21 5-22 5-23 5-24 5-25 5-26 5-27 5-28 5-29 5-30 5-31	64025-15 4120917.5 64141-4 64123-70 64123-50 4114727 64215-05 2308066 4116405.5 128010 2721505 4116374 4116403 4116953.5 64152-23 2308094 64197-015 4119625	NUT-HEX #10-24 KEPS HANDLE-LOWER, HYDRO NUT-WLF 3/8-16 BOLT-HEX 3/8-16X1-1/2 BOLT-HEX 3/8-16X1 KNOB-SPEED CONTROL RIVET-POP IFI# 64 WSHR-FRICTION WLDMT-SPEED CONTROL SWITCH, KEY SWITCH, KEY SWITCH-PTO BAR-HYDRO CONTROL WLDMT-RH CNTRL,HYDRO PLATE-PIVOT SHAFT 1/4-20X3/8 LG SP SCREW SWITCH-NCNC DBL POLE BLT-TDFM 10-32X1/2 TORX BHSG-CONTROL LEVER	1 2 6 2			

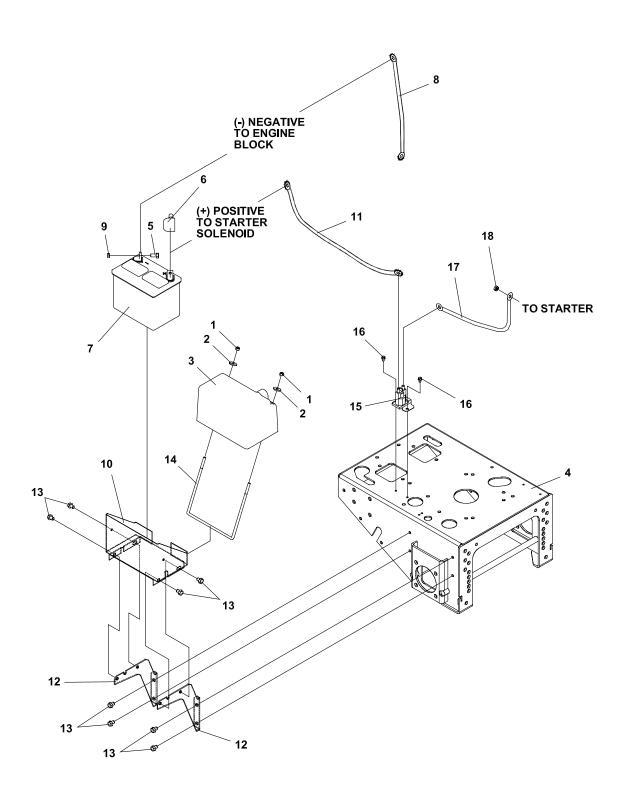
ITEM	PART NO.	DESCRIPTION	QTY
5-33	4116376	TUBE-CONTROL	2
5-34	4117741	GRIP-MOTION LVR, MIDS	ZE 2
5-35	2722325	RELAY-40AMP SEALED	1
5-36	4118378	SPRING-EXTENSION	2
5-37	4116380	SPACER-CONTROL	2
5-38	64229-01	LOCKNUT-NYLON 1/4-20	2
5-39	64123-07	BOLT, 1/4-20X1-1/2 HEX	2



TRACTION CONTROLS



ITEN	I PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
7-1	4120258 (USED ON 63	S-UP HNDL W/ LBLS (21 30327)	HP) 1				
	4120259 (USED ON 63	S-UP HNDL W/ LBLS, HYI 30325, 630326, 630329)	D 1				
7-11 7-12 7-13 7-14 7-15 7-16 7-17 7-18 7-19 7-20 7-21 7-22 7-23 7-24 7-25 7-26 7-27 7-28 7-29 7-30	64123-70 4120917.5 64123-02 64006-03 64163-61 64141-4 4119746 64229-03 64123-68 64141-6 2721617.7 2303058 64163-06 2308076-02 64144-16 85010N 2721246 64123-56 38372 64163-02 4114742.7 4114745.7 64237-05 64192-04 33103 4121937 4121897 4121898 64214-02	BOLT-HEX 3/8-16X1-1/2 HANDLE-LOWER, HYDRO BLT-HEX 3/8-24X1 WSHR, 3/8 HELICAL LOO WSHR. 81X.406X16GA NUT-WLF 3/8-16 SPRING-NEUTRAL RETU LOCKNUT-NYLON 3/8-16 BOLT-HEX 5/16-18X1 NUT, 5/16-18 WLDMT-SPEED CONTRO SHAFT-ECCENTRIC (HE2) WSHR, .768/.756X1.25X14 BEARING-PLASTIC RING,CLIP75X.062 ZERK, 1/4-28 STR SLFTH DAMPENER BLT-HEX 5/16-18X2 BEARING-BALL WSHR321X.593X11GA WLDMT-RH PUMP CNTRI LOCKNUT-NYLON M8-1.2 SET SCREW SQ 5/16-18X SWIVEL ROD-RH CONTROL ROD-LH CONTROL, UPPI TURNBUCKLE-3/8-16 NUT-WING 3/8-16	2 2 2 2 2 2 2 2 2 4 2 2 4 3 2 4 3 2 4 3 2 4 3 2 4 3 2 4 3 2 4 3 2 4 3 2 4 4 3 2 2 4 3 2 2 4 3 2 4 4 3 2 2 4 3 2 4 4 3 2 2 4 4 3 2 2 4 4 3 2 2 4 4 3 2 2 4 4 3 2 2 4 4 2 2 2 4 4 2 2 2 4 2 1 1 4 (5/82) 2 1 1 1 1 1 1 1 1 1 1 1 1 1				
7-26 7-27 7-28 7-29 7-30 7-31 7-32 7-33	33103 4121937 4121897 4121898	SWIVEL ROD-RH CONTROL ROD-LH CONTROL, UPPI TURNBUCKLE-3/8-16	2 1 ER 1 1 /ER 1 !9 7				



ELECTRIC START BATTERY



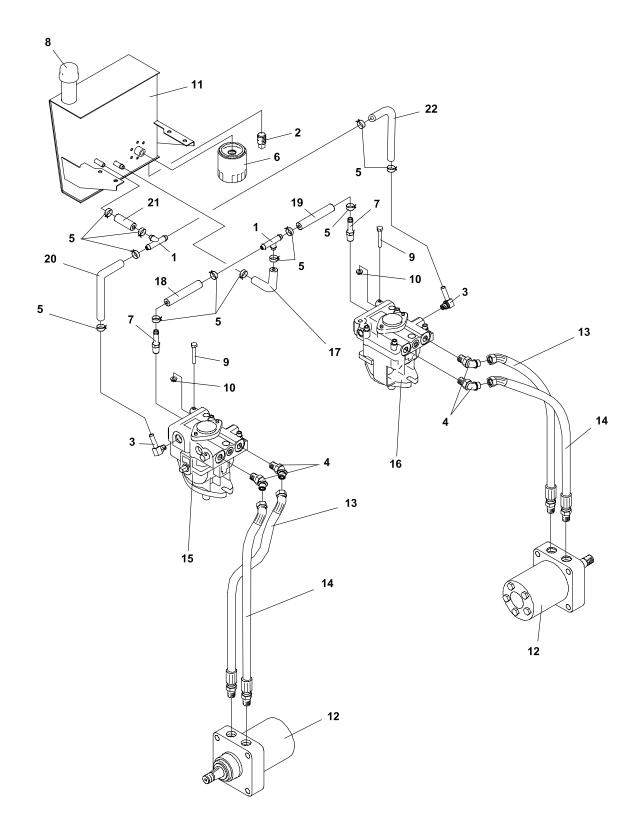
FIGURE 8

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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	WLDMT-DECK ENG HYDR	01				
8-5	64123-54	BOLT, 5/16-18X3/4 HEX	2				
8-6	112386	BOOT-BATTERY TERM PC)S 1				
8-7	108055	BATTERY	1				
8-8	108061-16	CABLE-BATT 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-BATT W/CONDUIT	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 DOWI	N 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				

HYDRAULICS

FIGURE 9



HYDRAULICS

Hydro Midsize

FIGURE 9

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	B 4
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	2692300-01		
9-14			
9-15		PUMP-HYDRO RH	1
	(SEE FIG 16	FOR PARTS BREAKDOWN)	
9-16	2721615	PUMP-HYDRO LH	1
	(SEE FIG 16	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

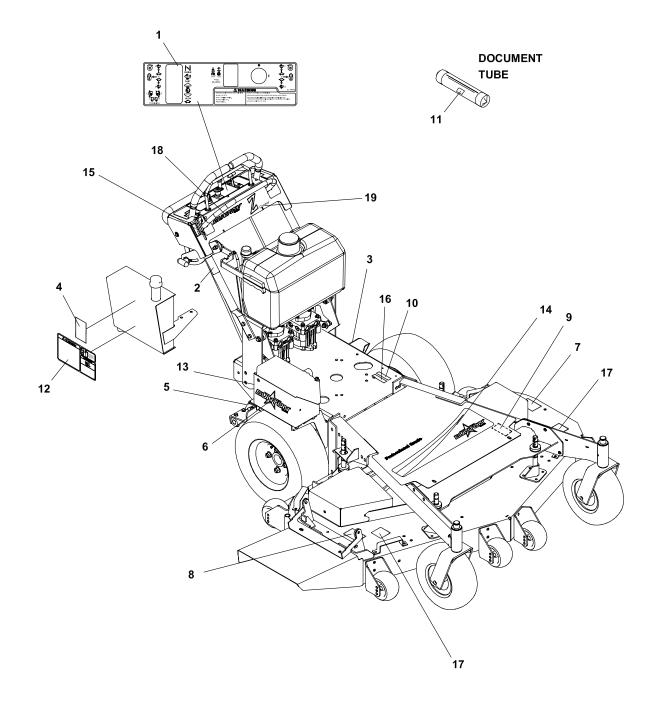
ITEM PART NO. DESCRIPTION QTY

SERVICEABLE HYDRAULIC O-RINGS

SAE PORT 'O' RING						
PART NUMBER	I THREAD SIZE I					
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.



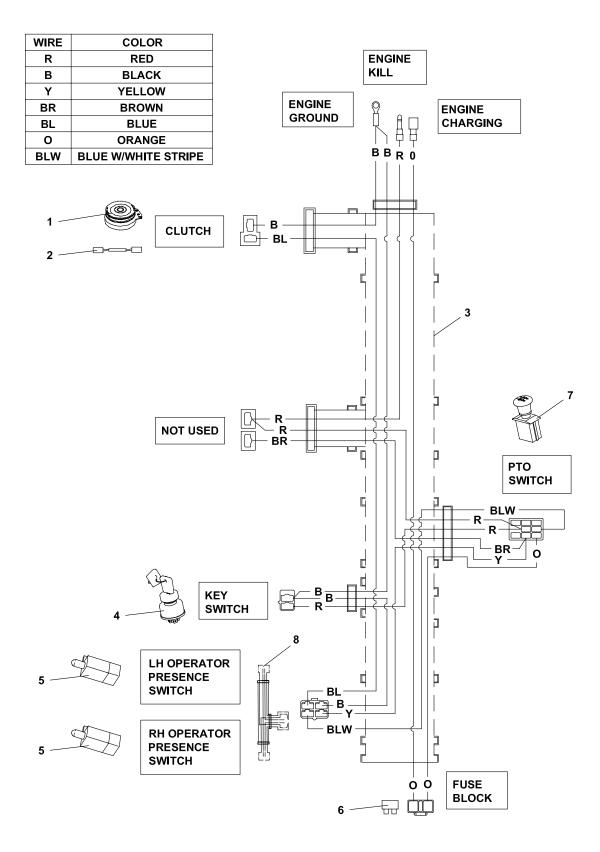
DECALS

Hydro Midsize

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
-	4119905	LABEL-CTRL PNL HYD	1				
(08	SED ON 6303	25, 630326, 630329 MODEL	_S)				
	4114900	LABEL-CTRL PNL W/CHK	1				
	(USED ON M	ODEL 630327)					
	2000672	LABEL-PARKING BRAKE	1				
	2000570	LABEL-WARN FUEL PICT	1				
	340830	DECAL-CAUTION SPANIS					
	2000571	LABEL-IMPORTANT	1				
	4124265	LABEL-BUNTON, 7.50	1				
	2000572	LABEL-WARNING BLADE					
		LABEL-DANGER/WARNIN					
	2000678	LABEL-ROT PRTS/B-WSH					
	QTY FOR 36		1				
		", 54" & 61" DECK	2				
	(LOCATED U	INDER BELT COVER)					
10-10	2000704	LABEL-MIDSIZE PATENT	1				
10-11	2000673	DECAL - OP MAN/TIRES	1				
10-12	2000661	LABEL-HYD TANK WARN	1				
10-13	2000590	LABEL-WARNING BATTER	RY 1				
(US	ED ON ELEC	CTRIC START MODELS ON	LY)				
10-14	4124250	LABEL-DECK, BUNTON	1				
	4120215	LABEL-SPEED CONTROL	1				
	00214-10	DECAL-PATENT NUMBER					
	4109863	LABEL-H.O.C. FLOATING	2				
10-18	4124318	LABEL-BUNTON	1				
10-19	4120256	LABEL-Z CONTROL	1				

WIRE DIAGRAM-RECOIL START

FIGURE 11



WIRE DIAGRAM-RECOIL START

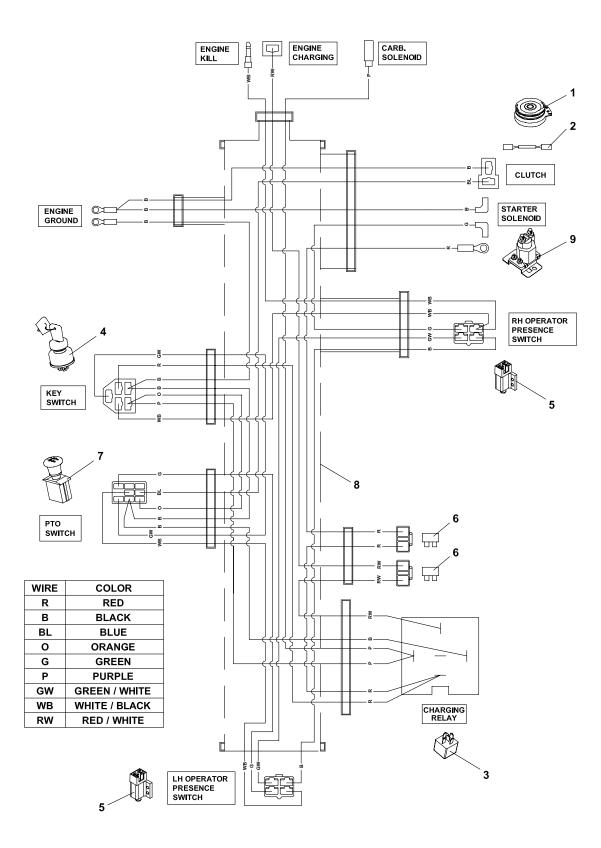


FIGURE 11

						110	URE
ITEM PART	NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
11-1 2721110 (INCLUI			1				
1-2 2720949 1-3 413143 (INCLUI	7	ASSY-CLUTCH WIRE HARNESS-MID GEAR DR' TEM 6)	1 √ 1				
1-4 38148 1-5 108208 1-6 148082- 1-7 2721505 1-8 4131439	-10 5	SWITCH-ENGINE STOP SWITCH DBL POLE NC/N FUSE 10 AMP SWITCH-PTO JUMPER-GEAR DRIVE	1 O 2 1 1 1				

WIRE DIAGRAM-ELECTRIC START

Hydro Midsize

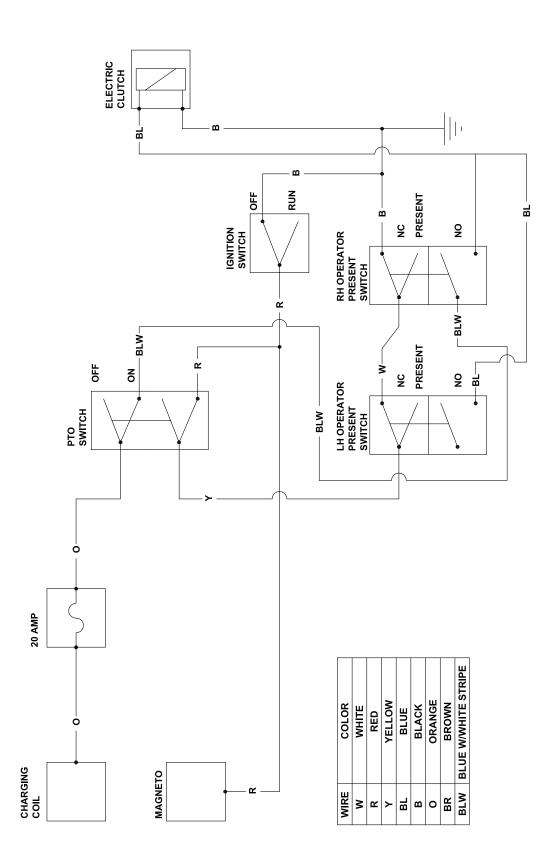




ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
12-1	2721110 (INCLUDES I	CLUTCH-ELECTRIC TEM 2)	1				
12-3 12-4 12-5 12-6 12-7	2308094 148082-20 2721505 4115352	ASSY-CLUTCH WIRE RELAY-40AMP SEALED KEY SWITCH SWITCH-NCNC DBL POLE FUSE 20 AMP SWITCH-PTO HARNESS, HYDRO ES QTY OF 2 OF ITEM 6)	1 1 2 2 1 1				
)*108061-15	SOLENOID-STARTER CABLE-BATTERY 6.5 RED RTER SOLENOID TO STAR					
12-11	(FROM (+) P	CABLE-BTTRY W/CONDU OSITIVE BATTERY TERMIN R SOLENOID)					
12-12		CABLE-BTTRY 31.5 BLAC EGATIVE BATTERY TERMII BLOCK)					
	* N0	OT ILLUSTRATED					

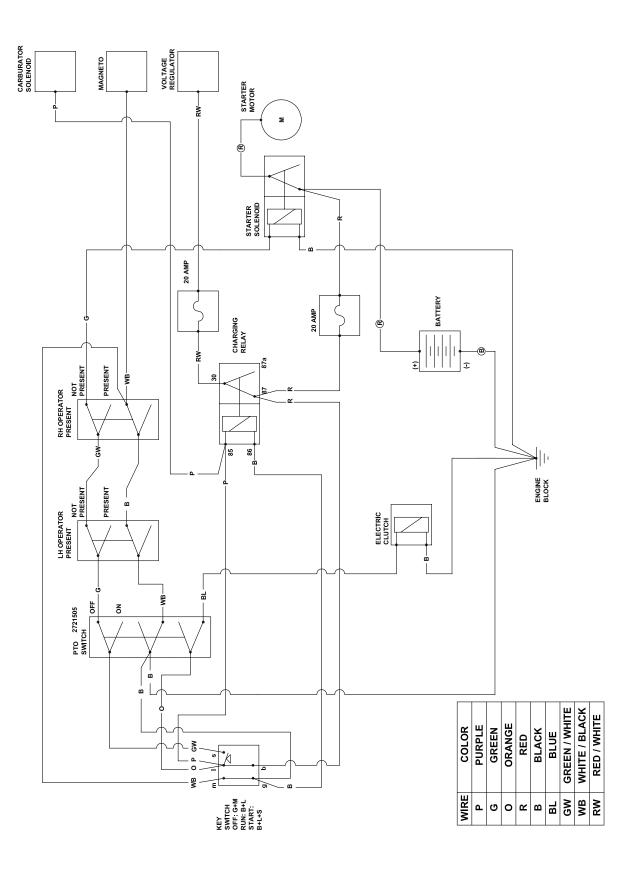
WIRING SCHEMATIC-RECOIL START

Hydro Midsize



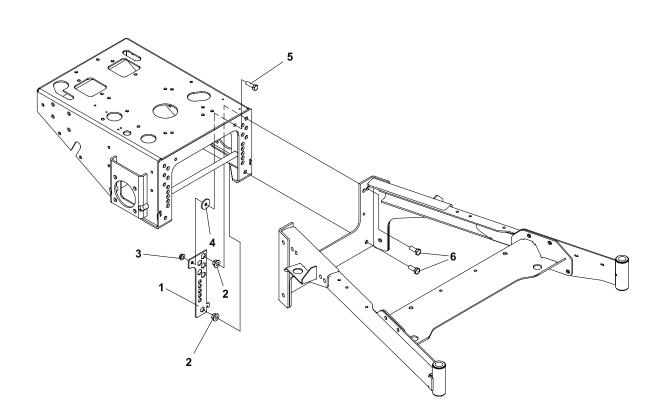


WIRING SCHEMATIC-ELECTRIC START



CUTTERDECK MOUNTING

FIGURE 15



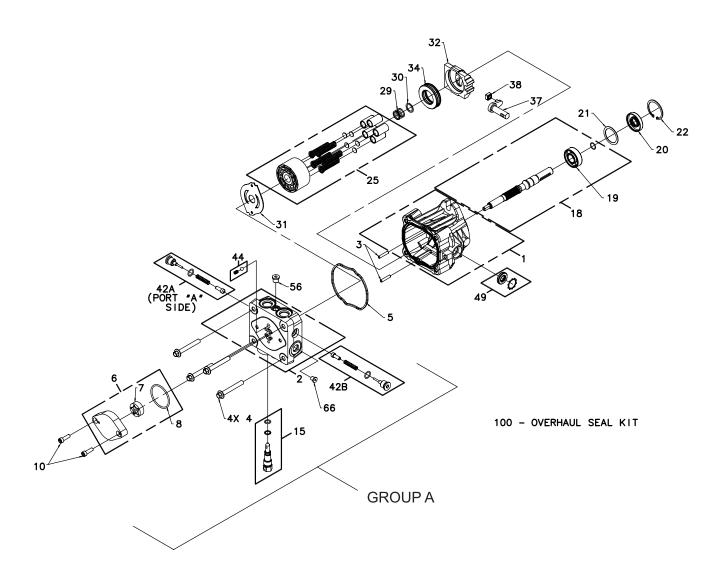
CUTTERDECK MOUNTING



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
15-2 15-3 15-4	64163-82	PLATE-NUT NUT-WHIZ M12-1.75 NUT-WLF 3/8-16 WSHR-FLAT.406X1.44X90					
		BOLT-HEX 3/8-16X1 BLT-FLG HD M12-1.75 X 3	2 0 4				

HYROGEAR PUMP

FIGURE 16





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
16-1	70516		HOUSING KIT	1
16-2	70517		END CAP KIT	1
16-3	50641		STRAIGHT HEADLESS PIN	2
16-4	50969	2721615-01	FLANGE BOLT M8-1.25 X 60	4
16-5	51232	2721615-02	HOUSING O-RING	1
16-6	2513027	2721615-03	CHARGE PUMP KIT (STD)	1
16-7	50273	2721615-04	STD GEROTOR ASSEMBLY	1
16-8	9004101-1340	2721615-05	O-RING	1
16-10	50095	2721615-06	SOCKET HEAD M6-1.0 X 20	2
16-15	2513030		BYPASS VALVE KIT (BLANK)	1
16-18	70521	2721615-07	PUMP SHAFT KIT	1
16-19	50315		BALL BEARING 17 X 40 X 12	1
16-20	51161		LIP SEAL 17 x 40 x 12	1
16-21	50951		SPACER	1
16-22	50329		RETAINING RING	1
16-25	70331	38345-12	CYLINDER BLOCK KIT	1
16-29	2003014		BLOCK SPRING	1
16-30	2003017		BLOCK THRUST WASHER	1
16-31	51246	2721615-09	VALVE PLATE	1
16-32	2003087	2721615-10	SWASHPLATE	1
16-34	50551	2721615-11	BALL THRUST BEARING	1
16-37	2003005	2721615-12	TRUNNION ARM	1
16-38	2000015	2721615-13	SLOT GUIDE	1
16-42A	2510027	2721615-14	CHECK VALVE KIT (.031")	1
16-42E	3 2510050	2721615-15	CHECK VALVE KIT (BLANK)	1
16-44	70403	2721615-16	CHARGE RELIEF VALVE KIT	1
16-49	2513043	2721615-17	TRUNNION SEAL/RETAINER	KIT1
16-56	9005110-4400		STRAIGHT THREAD PLUG	1
16-66	9005110-3100		5/16 SAE PLUG	1
16-100	70525	2721615-18	OVERHAUL SEAL KIT	1

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Equipment from Jacobsen, a Textron company, is built to exacting standards ensured by ISO 9001 and ISO 14001 registration at all our manufacturing locations.

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

