

SETUP, PARTS & MAINTENANCE MANUAL HYDRO MIDSIZE

Power Unit Models:

730325 Power Unit 15HP Kawasaki Hydro Z-Control 730326 Power Unit 17HP Kawasaki Hydro Z-Control 730327 Power Unit 21HP Kawasaki Hydro ES Z-Control

(Operation & Safety Manual: 4124040)



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.



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.

IMPORTANT MESSAGE

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

Jacobsen 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.

Textron Golf, Turf & Specialty Products
One Bob Cat Lane
Johnson Creek, WI 53038-0469

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NOTICE !!!

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

Textron Golf, Turf & Specialty Products strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Textron Golf, Turf & Specialty Products Engineering Department. Any Textron Golf, Turf & Specialty Products 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 Textron Golf, Turf & Specialty Products—will result in the Textron Golf, Turf & Specialty Products 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 Textron Golf, Turf & Specialty Products will be considered the responsibility of the individual(s) or company designing and/or making such changes. Textron Golf, Turf & Specialty Products 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 Textron Golf, Turf & Specialty Products machines. For your safety and the safety of others, read and follow the information given with these signal words and/or the symbol shown above.

▲ DANGER

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

A WARNING

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

A CAUTION

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

CAUTION

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

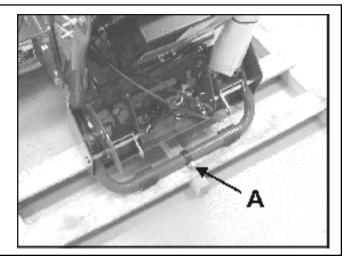
TEXTRON GOLF, TURF & SPECIALTY PRODUCTS MODEL NUMBER SERIAL NUMBER JOHNSON CREEK, WI MADE IN U.S.A

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

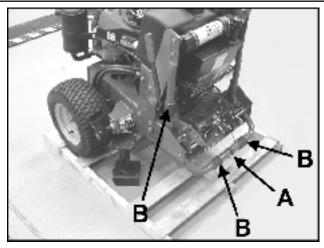
SERIAL NUMBER: This number appears only on your mower. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information.

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

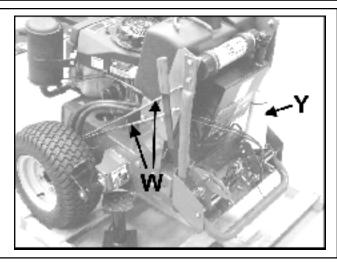
- 1. UNCRATE Place both power unit and cutterdeck crates on a level surface. Remove sides and top from both the power unit and cutterdeck crates.
- 2. Remove lag bolt **A** from shipping clamp.



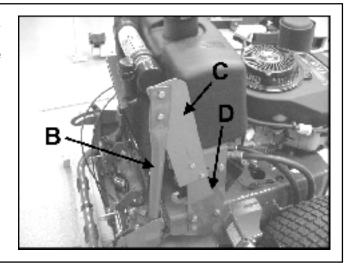
3. Raise the rear of the machine and support with jackstands as shown. Remove and discard shipping clamp **A** and shipping sleeves **B**.



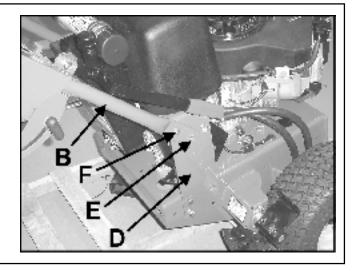
4. Remove wire ties from the two rods W on left and one rod W on the right side of the machine. Remove wire tie from the parts bag Y. Remove the rods W from the upper handle shipping bracket and the parts bag, and set them aside for later use.



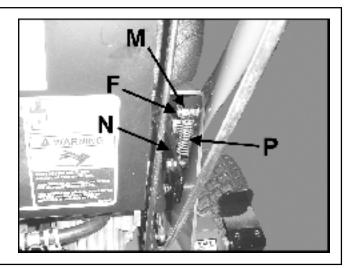
Remove upper handle B from shipping bracket C.
 Place upper handle on crate bottom. Remove and discard shipping bracket C from lower handle
 D. Retain fasteners removed for later use.



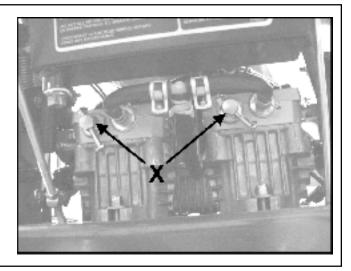
6. Install upper handle **B** to lower handle **D** using (2) 3/8-16 X 1" bolts and (2) 3/8-16 nuts removed in Step 5 at location **E**, and (2) 3/8-16 X 1-1/2" bolts and (2) 3/8-16 nuts at location **F**.



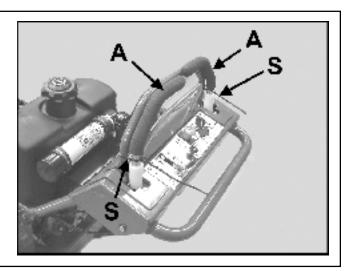
Install (2) springs P and (2) 3/8-16 nylon locknuts M from parts bag onto bolt F on each side of the machine. Attach springs to bolts on neutral return brackets N as shown.



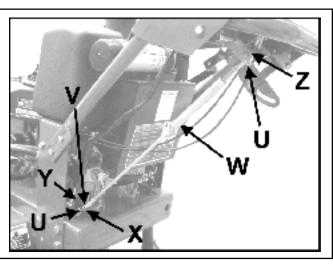
8. Open the bypass valves **X** on each pump by rotating handle counter-clockwise two revolutions.



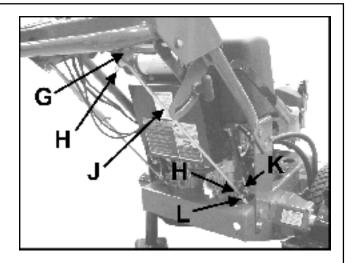
- 9. Remove the power unit from the crate and support the rear of the power unit with a jack stand.
- 10. Cut and remove wire ties **S** from the control levers **A**. Place the control levers in the neutral position in the control panel.



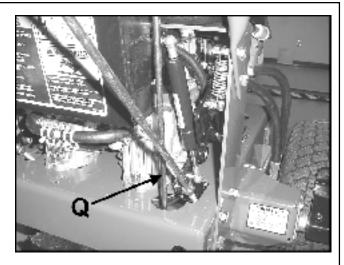
11. Install the tracking control assembly W removed in Step 4 on the left hand control Z using pins U. Adjust swivel X to align with pump arm Y. Install pin U and tighten jam nut V.

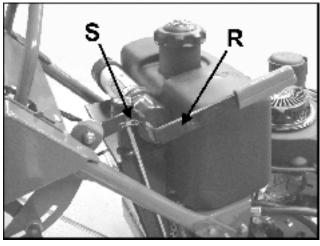


12. Install the right hand control rod J, the shorter of the remaining rods removed in Step 4, on the right hand control G using (2) pins H from the parts bag. Adjust swivel L to align with pump arm K. Install pin H.

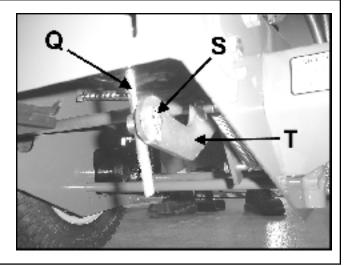


13. Insert threaded end of brake rod **Q** through the slot on the engine deck and attach the other end to the brake control arm **R** and secure in place with hairpin **S** as shown.

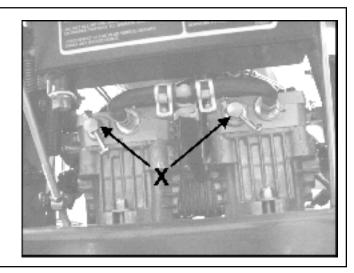




14. Connect swivel on threaded end of brake rod Q to the brake arm T and secure in place with hairpin S as shown. Adjust swivel to provide adequate braking when the brake control arm is engaged. See adjustment section of this manual.



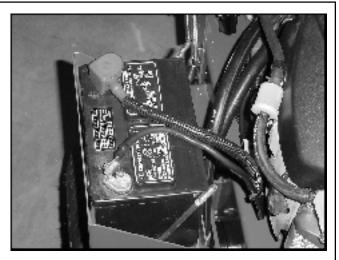
15. Close bypass valves **X** by rotating clockwise until firmly seated.



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.

A WARNING GASOLINE IS HIGHLY FLAMMABLE!

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

IA WARNING

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

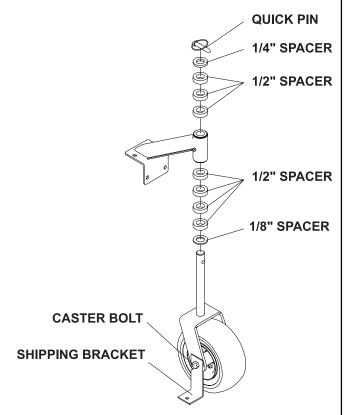
CUTTERDECK ATTACHMENT: Two types of cutterdeck mounting systems are available, fixed and floating. Fixed mounting rigidly attaches the cutterdeck to the power unit. Floating mounting allows the cutterdeck to move independent of the power unit providing a more uniform cut. Follow the appropriate instructions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

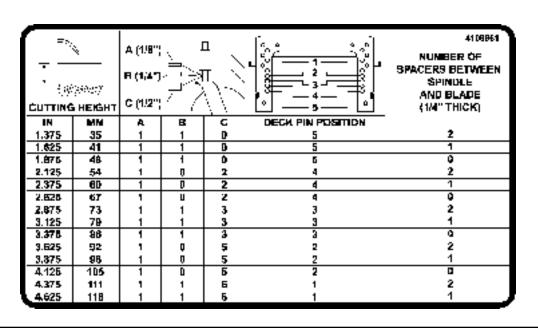
FIXED CUTTERDECK ATTACHMENT

- 1. Remove the cutterdeck from the crate.
- 2. Unbolt the caster wheels and the shipping brackets from the crate.
- 3. 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.

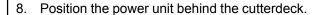
5. Repeat for other caster wheel assembly.

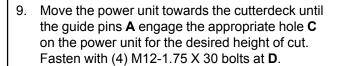


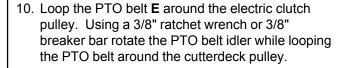


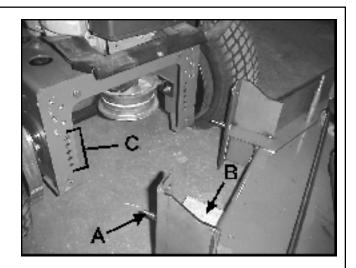
- 6. Remove belt cover and set aside.
- 7. Block the rear of the cutterdeck with the appropriate height block for the desired height of cut **B**. See Support Block Chart below.

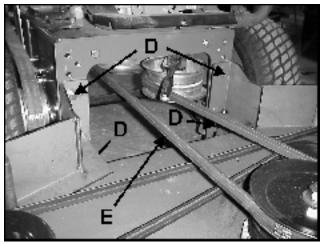
CUTTING HEIGHT	HOLE POSITION ON ENGINE DECK*	BLOCK HEIGHT AT REAR OF DECK (B)					
1.375" - 1.625"	5	1.25"					
1.875" - 2.375"	4	2.00"					
2.625" - 3.125"	3	2.75"					
3.375" - 3.875"	2	3.50"					
4.125" - 4.625"	1	4.25"					
* Position 1 is the highest hole on the engine deck.							



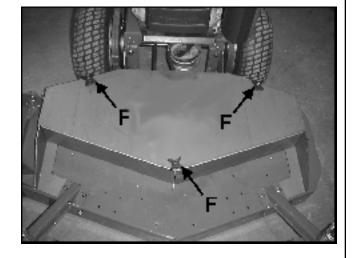






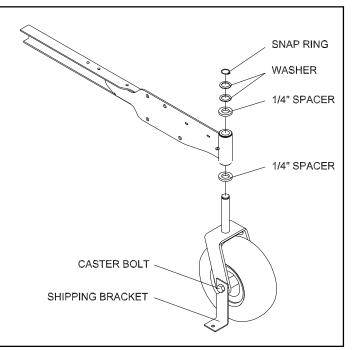


- 11. Reinstall belt cover and fasten in place with knobs **F**.
- 12. Remove support block from the rear of cutterdeck.
- 13. Remove support from the rear of the power unit.

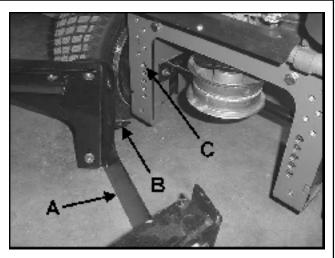


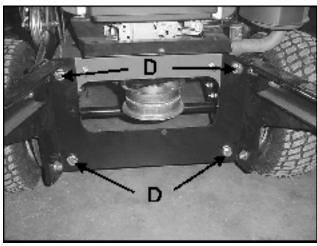
FLOATING CUTTERDECK ATTACHMENT

- 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.

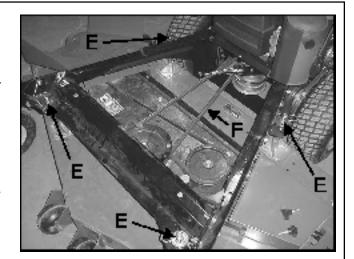




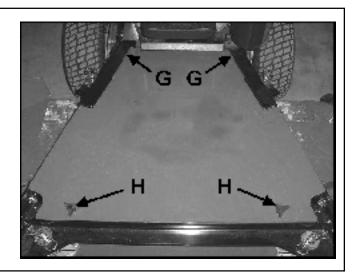
- 10. Position power unit behind the crate and cutterdeck.
- 11. With the cradle raised above the cutterdeck, roll the front of the cradle and power unit up and over the cutterdeck and crate.
- 12. Align height of cut pins **E** on cutterdeck with the bushings on the cradle and lower the cradle so pins 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 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**.

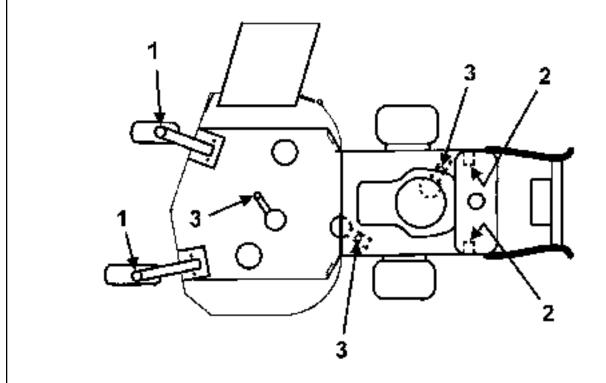


MACHINE LUBRICATION

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.



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.

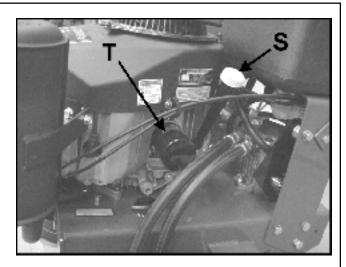
DO NOT OVER FILL!

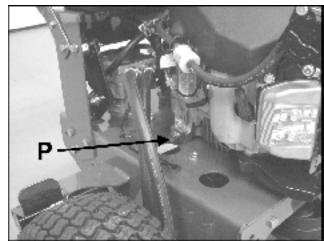
AFTER THE FIRST 5 WORKING HOURS

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



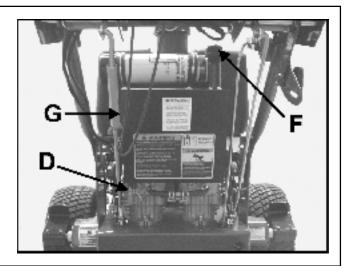


HYDRAULIC RESERVOIR CHECK, DRAIN AND FILL

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**.



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.

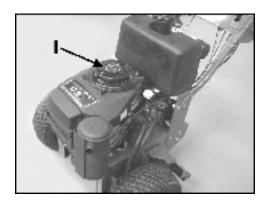
Air Cleaner (every 25 hours)

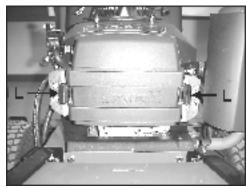
Service more frequently if operating in very dusty or dry conditions. Extensive damage will result from operating with a dirty air cleaner.

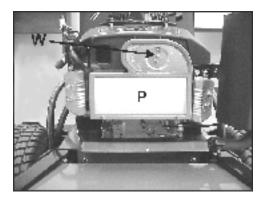
- 1. Remove the air cleaner cover by releasing latches **L**.
- 2. Remove the foam precleaner **P** by sliding it off the paper cartridge. Wash in kerosene or detergent and water. Dry thoroughly. Saturate in engine oil. Squeeze to remove excess oil.
- 3. Reinstall all parts.

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

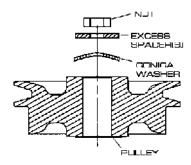


NOTE: Follow these instructions to prevent injury when bolt releases.

- 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.
- 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.





Cutterdeck Pulley Assembly

BLADE RE-INSTALLATION

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

SPARK PLUG

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

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	ANUFACTU	RER'S MAN	UAL*
Clean Fuel Sediment Bowl				х		
Replace/Adjust Spark Plug		SEE ENGI	NE MANUF	ACTURER'S	S MANUAL	
HYDRAULIC OIL RESEVOIR						
Check Oil Level					х	
MACHINE						
Check Tire Pressures		Х				
Lubricate All Points				Х		

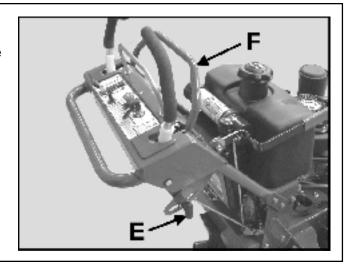
Consult the manufacturer's manual for your engine for further information and instructions.

NOTES												
												-
							_= = ===					
												
GENERAL	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS
Check tire pressures												
Lubricate all points												
Check nuts & bolts												
ENGINE												
Check oil level												
Change oil												
Clean air cleaner element												
Clean cooling fins												_
Replace air cleaner element												
Clean & gap spark plugs												
NOTE	: After	first 5 l	nours c	of opera	ation re	place	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 ${\bf F}$ is held by friction pads. If the setting will not hold, tighten knob ${\bf E}$ to increase friction on speed control bar ${\bf F}$.



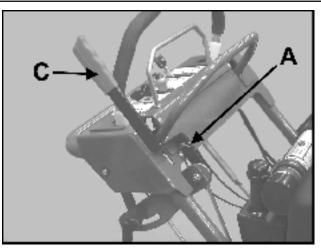
PARKING BRAKE - Apply parking brakes and open the bypass valves on the hydraulic pumps. Try to push the machine forward. If wheels rotate, adjust brakes as follows.

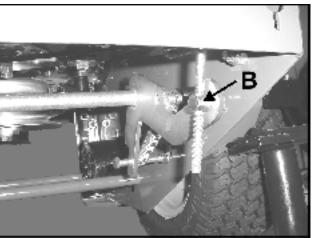
TO ADJUST:

- 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.



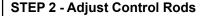




TRACTION DRIVE HYDROSTAT ADJUSTMENTS: The following adjustments must be done in order.

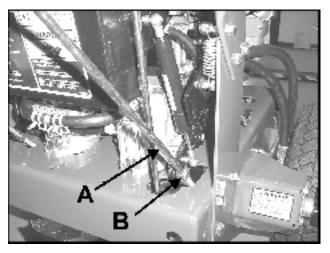
STEP 1 - Set Neutral

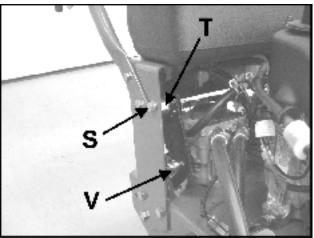
Neutral is set at the factory. If it should require adjustment, raise the wheels off the ground by supporting the machine on jackstands or blocks. Disconnect the control rod **A** at each pump end. Loosen bolt **S** securing the neutral plate eccentric shaft just enough to turn the shaft. Start the engine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

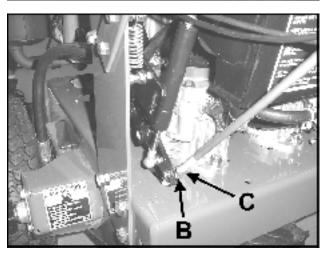


First adjust neutral, as outlined in Step 1. Set control levers to neutral. Adjust swivels **B** on lower ends of control rods **A** so they just go into the holes on the pump arm control plates.

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





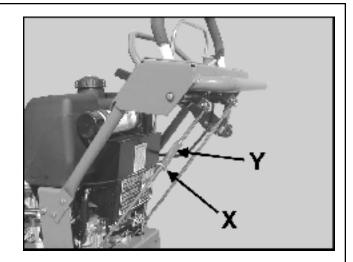


TRACKING ADJUSTMENT TURNBUCKLE (L)

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

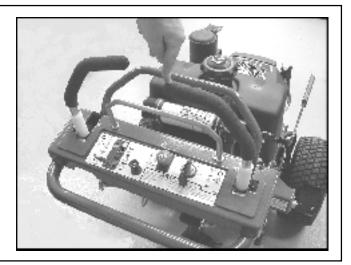
To correct tracking:

- 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**



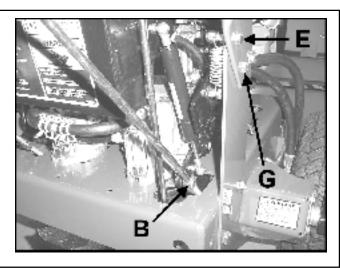
CONTROL LEVERS

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



HANDLE BAR HEIGHT ADJUSTMENT

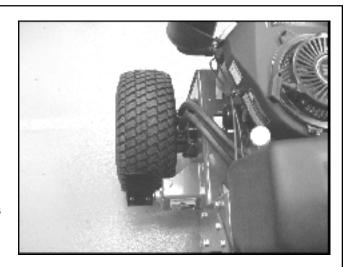
To adjust handle bar height: Remove swivel **B** at each pump control arm and the parking brake rod. Remove bolts **G** and loosen bolts **E** on each side of handlebars. Raise or lower as required. Reposition upper handle and reinsert bolts at location **G** into appropriate hole in lower handle and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



TRACK WIDTH ADJUSTMENT

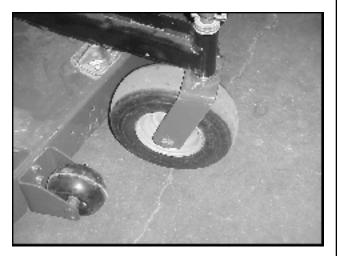
The track width originally set from the factory can be increased an additional 3-1/4" overall by performing the following steps.

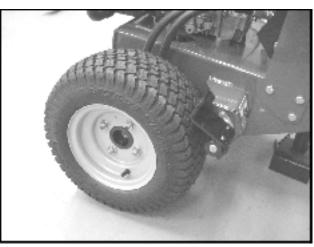
- 1. Loosen wheel lug nuts on both drive tires.
- 2. Raise rear of unit so that drive tires are off the ground. Support the unit with jack stands.
- Remove wheel lug nuts and wheels. Reattach
 wheels with the tires rotated so the wheel offset is
 the opposite of when they were previously
 installed.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



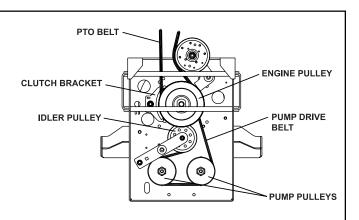
CUTTERDECK BELT

- 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.



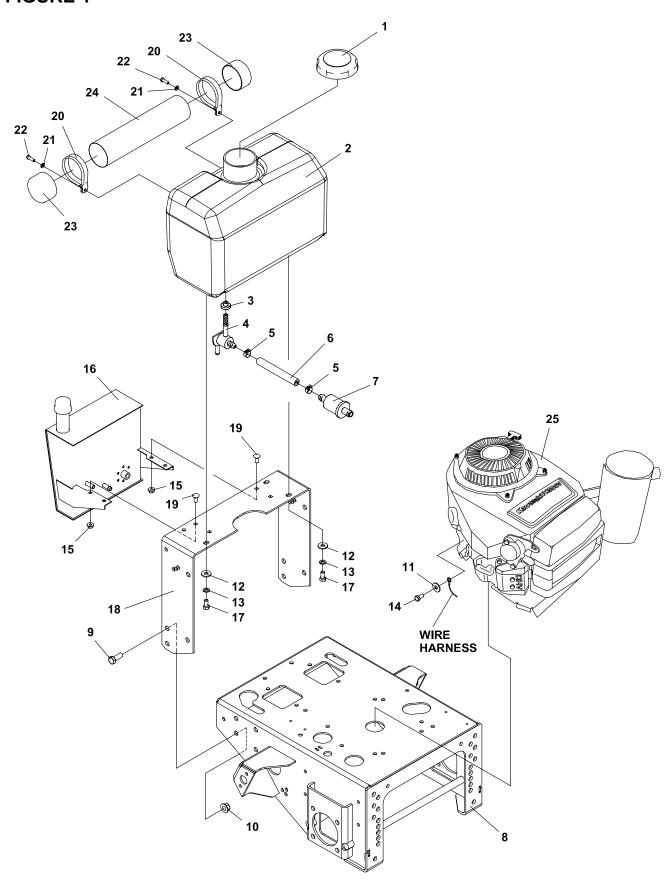
PUMP-DRIVE BELT

- 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.



View under engine deck

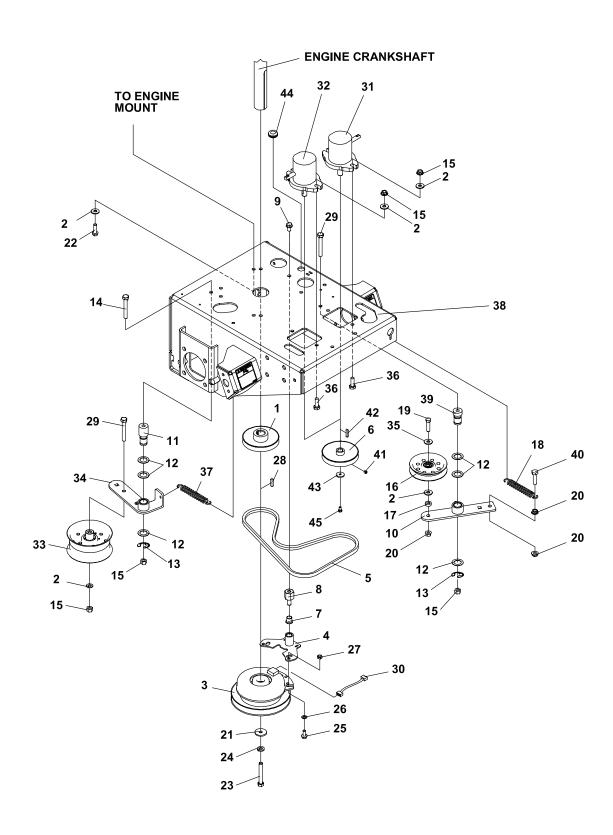
FIGURE 1



4124039-01 FIGURE 1

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1-1 1-2		CAP-FUEL GASOLINE 3.5 TANK-FUEL S ITEMS 3 & 4)	1				
1-3 1-4 1-5 1-6	88042N 48016-4A (USE 16.5" (USE 17.6"	HOSE,.25IDX.50OD X 22"L ON 15 HP & 17HP MODELS ON 21HP MODELS)					
	64229-05 64002-04 64163-31 64006-03 64205-018 64229-02 2306127 64123-15 4120917.7 64018-9 38542 64006-01 64123-89 38061A 2306144 2721377 2721378 2722214 2722207 2722208 SERVICE M. KAW #999 2721379 2722214 2722212 2722213 SERVICE M.	BOLT-HEX 1/2-13X1-1/4 LOCKNUT, 1/2-13 NYLON LOCKWASHER, EXT. 5/16 WASHER, 25/64X1X12 LOCKWSHR-HELICAL 3/8 BLT MET M8-1.25 X 15 LOCKNUT-NYLON 5/16-18 S-HYD RESEVOIR W/LABS BLT-HEX 3/8-16X3/4 HANDLE-LOWER, HYDRO BLT-CRG 5/16-18 X 3/4 CLAMP-DOCU TUBE LOCKWSHR-HELICAL 1/4	4 4 1 3 4 5 1 4 2 2 2 2 1 G 1 ENT ENT				
* AV	AILABLE TH	IROUGH KAWASAKI DEAL	ER.				

FIGURE 2

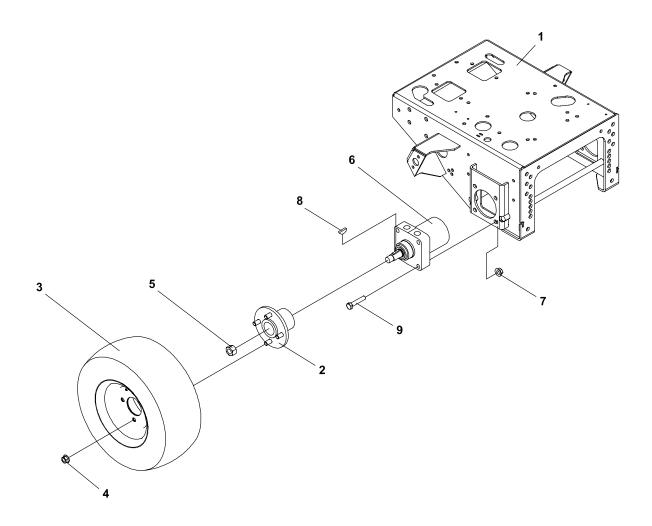


LOWER ENGINE DECK ASSY/CLUTCH

4124039-02 FIGURE 2

ITEM	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				
2-10	2721641.7	WLDMT-IDLER	1				
2-11	4116712	PIN-PIVOT	1				
2-12	64163-65	WASHER890X1.375X180	6 A6				
2-13	64221-04	E-RING.875	2				
2-14	64123-138	BLT-HEX 3/8-16X3-3/4	1				
2-15	64229-03	LOCKNUT-NYLON 3/8-16	7				
2-16	2308000	PULLEY-IDLER 4.00 EOD	1				
2-17	33148-01	SPACER	1				
2-18	38219	SPRING-TENSION	1				
2-19	64123-87	BLT-HEX 3/8-16 X 1-3/4	1				
2-20	64141-4	NUT-WLF 3/8-16	3				
2-21	64163-51	WSHR.453 X 1.38 X 7GA	1				
2-22	64197-005	BLT-TDFM 3/8-16X1-1/4	4				
2-23	64123-155	BLT-HEX 7/16-20 X 3	1				
2-24	64006-06	LOCKWSHR-HELICAL 7/1	1				
2-25	64123-54	BOLT, 5/16-18X3/4 HEX	2				
2-26		WSHR256ID X.62DX18G	A. 2				
2-27		LOCKNUT-NYLON 5/16-18					
2-28		1/4X1/4X1 SQ END KEY	1				
2-29	64123-75	BOLT, 3/8-16X3 HEX	2				
2-30	2720949	ASSY-CLUTCH WIRE	1				
2-31	2721615	PUMP-HYDRO LH	1				
2-32	4112782	PUMP-HYDRO RH	1				
2-33	2721541	PULLEY-IDLER 5 IN	1				
2-34		WLDMT-IDLER ARM	1				
2-35	64163-61	WSHR .81X.406X16GA	1				
2-36		BLT-HEX 3/8-16X1-1/4	4				
2-37	2188131	SPRING-EXTENSION	1				
2-38	4124041	S-ENGINE DECK HYD	1				
2-39	4116691	PIN-PIVOT	1				
2-40	64123-70	BOLT-HEX 3/8-16X1-1/2	1				
2-41	64044-6	SCREW-SET 5/16-18 X 1/4	=				
2-42	64238-03	KEY-MET 5MM SQ X 28	2				
2-43	64209-09	WASHER-CONICAL SPRIN	_				
2-44		INSUL. GROMMET 1.125C	_				
2-45		BLT-MET M6-1 X 12	2				
•	3.2200.0	<u>-</u>	_				

FIGURE 3



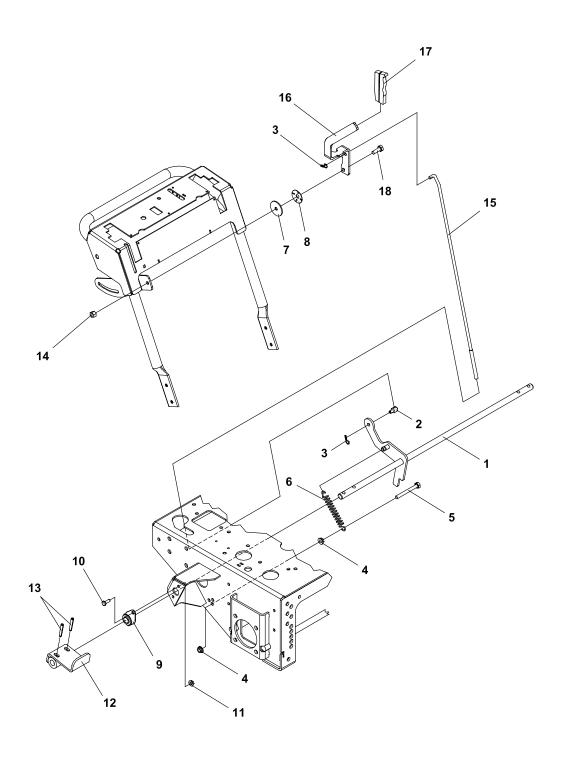
DRIVE WHEELS



4124039-03 FIGURE 3

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
3-1	4124041	S-ENG DECK, JCBSN HY	′D 1]			
3-2	2721620.7	WLDMT-HUB	2				
3-3	2721956	ASSY-WHEEL 16 X 7.50	X 8 2				
	2721956-0	1TIRE-16X7.50X8 MLTI TF	RC 1				
	2721956-0	2WHEEL W/ DUAL VALVE	S 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 N	/IF 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				

FIGURE 4



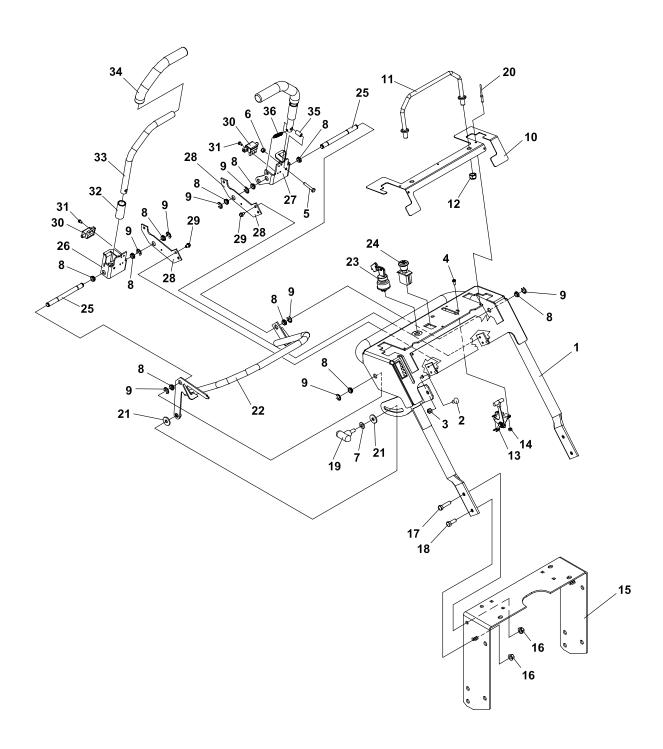
PARKING BRAKE



4118421-04 FIGURE 4

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
4-1	2721637	WLDMT-BRAKE SHAFT	1				
4-2	33103	SWIVEL	1				
4-3	64168-2	COTTER-HAIRPIN.08X1.19	9 2				
4-4	64141-4	NUT-WLF 3/8-16	2				
4-5	64123-171	BOLT-HEX 3/8-16X3-1/2	1				
4-6	2188131	SPRING-EXTENSION	1				
4-7	64163-17	25/64 X 2 X 11GA WASHR	1				
4-8	64171-2	WAVE WASHER	1				
4-9	2188145	BEARING75ID SELF ALIC	SN 2				
4-10	64123-54	BOLT, 5/16-18X3/4 HEX	4				
4-11	64141-6	NUT, 5/16-18	4				
4-12	2721725.7	WLDMT-SCRUBBER	2				
4-13	64061-09	ROLL PIN-3/8 X 2	4				
4-14	64229-03	LOCKNUT-NYLON 3/8-16	1				
4-15	2721726	ROD-BRAKE	1				
4-16	4116495.7	LEVER-BRAKE ARM	1				
4-17	38404-01	GRIP,CONTROL LEVER	1				
4-18	64123-16	BLT-HEX 3/8-16X1-1/4	1				

FIGURE 5



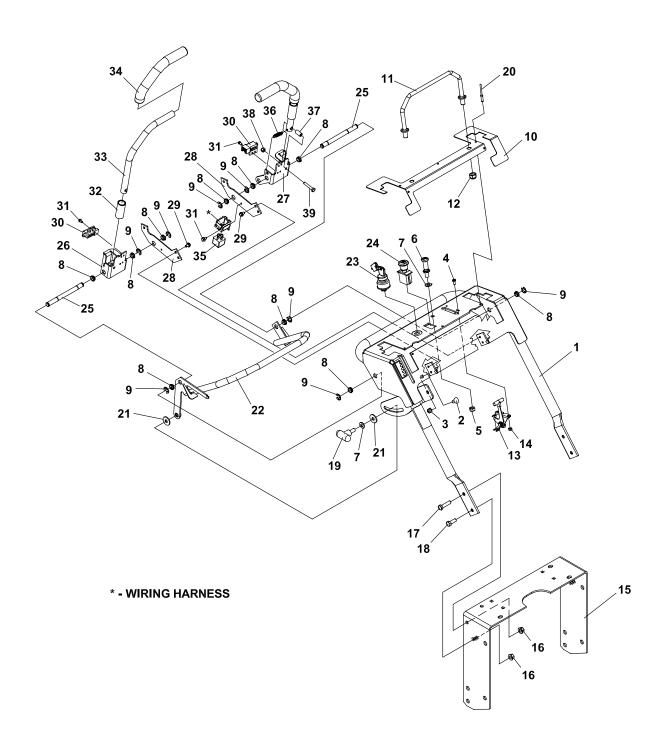
RECOIL START UPPER HANDLE

Hydro Midsize

4124039-05 FIGURE 5

ITEM	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	4118586.7	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	4120917.7	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	4116405.7	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) 1				
5-27	4116403	WLDMT-LH CNTRL,HYDRO	1				
5-28	4116953.7	PLATE-PIVOT SHAFT	2				
5-29	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	〈 4				
5-32	4119625	BHSG-CONTROL LEVER	2				
5-33	4116376	TUBE-CONTROL	2				
5-34	4117741	GRIP-MOTION LVR, MIDSZ	E2				
5-35	4116380	SPACER-CONTROL	2				
5-36	4118378	SPRING-EXTENSION	2				

FIGURE 6

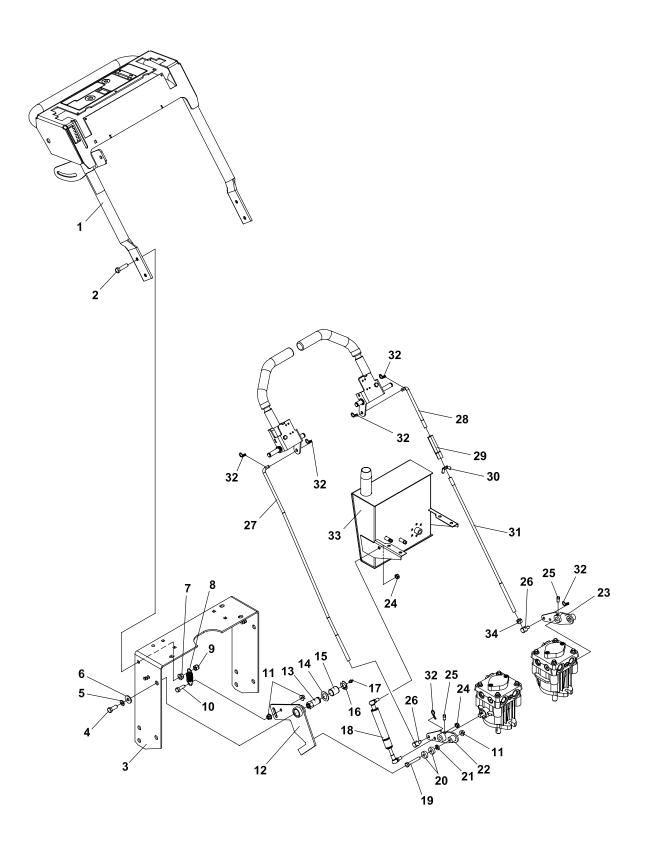


ELECTRIC START UPPER HANDLE

Hydro Midsize

4124039-06 FIGURE 6

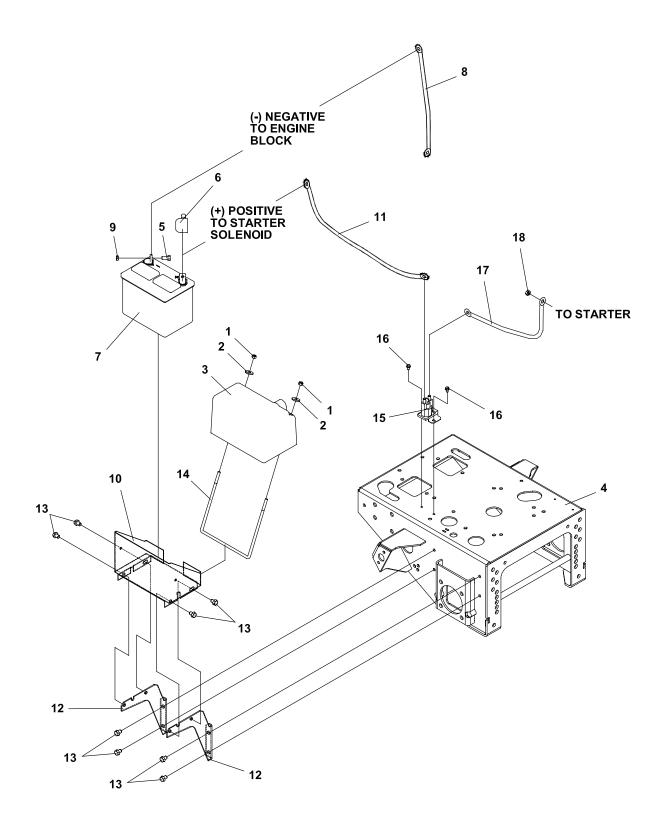
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
5-1	4120258	S-UPPER HANDLE W/ LAB	S 1				
5-2	64018-9	BLT-CRG 5/16-18X3/4 G5	1				
5-3	64229-02	LOCKNUT-NYLON 5/16-18	1				
5-4	64152-46	SCREW-SLT HH 10-24X1/2	2 2				
5-5	64025-04	NUT-3/8-24 HEX	1				
5-6	108009-05	CONTROL-CHOKE 55	1				
5-7	64163-61	WSHR .81X.406X16GA	2				
5-8	4116398	BSHG-IGUS,.50IDX.13THK	10				
5-9	64221-05	E-CLIP, .328 ID	8				
5-10	4118586.7	PANEL-COVER, HYDRO	1				
5-11	4118392	ROD-REVERSE ASSIST	1				
5-12	64229-05	LOCKNUT, 1/2-13 NYLON	2				
5-13	118020-14	CONTROL-THROTTLE 53.	001				
5-14	64025-15	NUT-HEX #10-24 KEPS	2				
5-15	4120917.7	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	4116405.7	WLDMT-SPEED CONTROL	_ 1				
5-23	128010	SWITCH, KEY	1				
5-24	2721505	SWITCH-PTO	1				
5-25	4116374	BAR-HYDRO CONTROL	2				
5-26	4116404	WLDMT-RH CNTRL,HYDR	0 1				
5-27	4116403	WLDMT-LH CNTRL,HYDRO) 1				
5-28	4116953.7	PLATE-PIVOT SHAFT	2				
5-29	64152-23	1/4-20X3/8 LG SP SCREW	6				
5-30	2308094	SWITCH-NCNC DBL POLE	2				
5-31	64197-015	BLT-TDFM 10-32X1/2 TOR	X 5				
5-32	4119625	BHSG-CONTROL LEVER	2				
5-33	4116376	TUBE-CONTROL	2				
5-34	4117741	GRIP-MOTION LVR, MIDS2	ZE2				
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				





4124039-07 FIGURE 7

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
7-1	4120258 (USED ON	S-UPR HNDL W/ LBLS 730327)	1				
	4120259 (USED ON	S-UPR HNDL W/ LBLS 730325 & 730326)	1				
7-2 7-3 7-4 7-5 7-6 7-7 7-8 7-9 7-10 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	64123-70 4120917.7 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	BOLT-HEX 3/8-16X1-1/2 HANDLE-LOWER, HYDRO BLT-HEX 3/8-24X1 WSHR, 3/8 HELICAL LOC WSHR .81X.406X16GA NUT-WLF 3/8-16 SPRING-NEUTRAL RETUIL LOCKNUT-NYLON 3/8-16 BOLT-HEX 5/16-18X1 NUT, 5/16-18 WLDMT-SPEED CONTRO SHAFT-ECCENTRIC (HEX WSHR, .768/.756X1.25X14 2BEARING-PLASTIC RING,CLIP75X.062 ZERK, 1/4-28 STR SLFTHE DAMPENER BLT-HEX 5/16-18X2 BEARING-BALL WSHR321X.593X11GA WLDMT-RH PUMP CNTRL UCKNUT-NYLON M8-1.24 SET SCREW SQ5/16-18X5 SWIVEL ROD-RH CONTROL, UPPE TURNBUCKLE-3/8-16	2 K 2 2 2 2 2 2 4 2 1 1 5 6/8 2 2 1				
7-30 7-31 7-32 7-33 7-34	64214-02 4121896 64168-2 2306127 64001-6	NUT-WING 3/8-16 ROD-LH CONTROL, LOWI COTTER-HAIRPIN.08X1.19 S HYD RESERVOIR W/LAI NUT-HEX JAM,3/8-16	9 7				

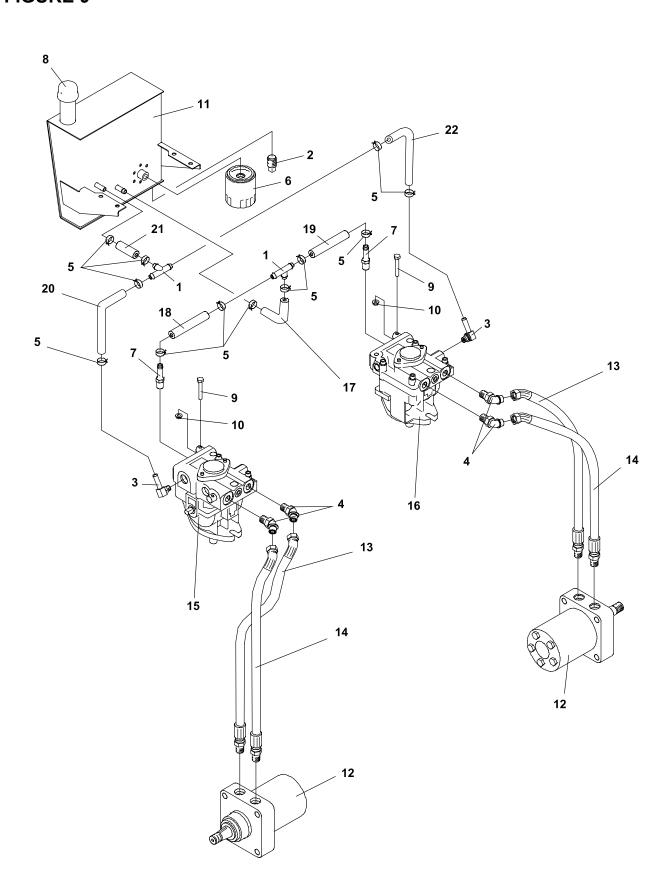


ELECTRIC START BATTERY

Hydro Midsize

4124039-08 FIGURE 8

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	4124041	S-ENGINE DECK W/LABEL	S 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-BATT 31.5 BLACK	1				
8-9	64025-02	NUT-HEX 5/16-18	2				
8-10	4124044	S-TRAY, BATTERY	1				
8-11	2722227-03	BCABLE-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 DOWN	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

QTY

Hydro Midsize

2721734-09 FIGURE 9

ITEM PART NO.

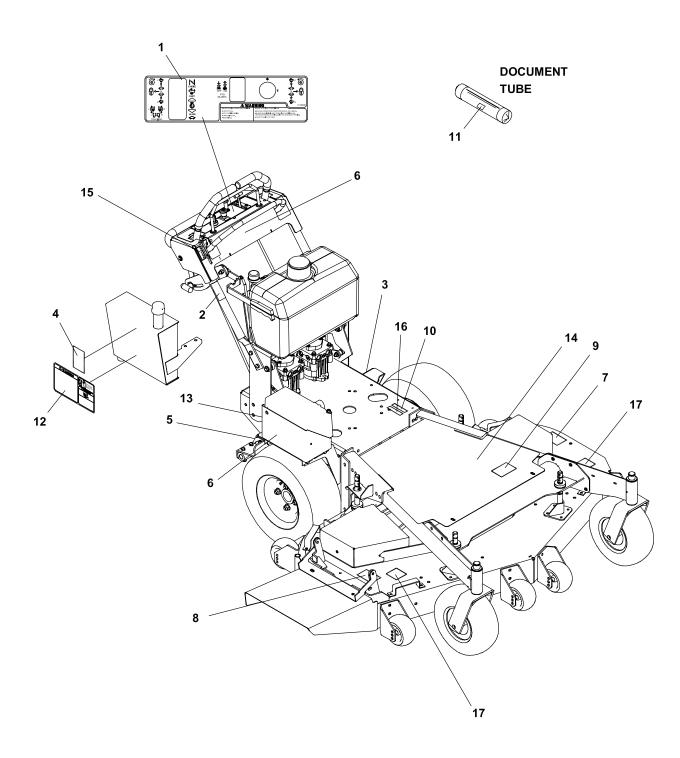
ITEM	PART NO.	DESCRIPTION	QTY
9-1	58026-01	3-WAY CONNECTOR	2
9-2	108029	PLUG, MAGNETIC	1
9-3	158058-04	FITTING-90 BARB, ADJ.	2
9-4	108205-02	ELBW-MALE 45 8X8 37-OF	RB4
9-5	88042-04	CLAMP-HOSE 5/8"	12
9-6	2720396	FLTR, 25 MCRN SM CAM	1
9-7	69060-01	FTG-BARB 9/16 X 3/8 ST	2
9-8	69216.7	CAP-RESERVOIR	1
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	IHOSE-1/2 37/ORB X 18.5 L	.G 2
9-14		2HOSE-1/2 37/ORB X 18.5 L	.G 2
9-15		PUMP-HYDRO RH	1
	(SEE FIG 1	6 FOR PARTS BREAKDOW	/N)
9-16		PUMP-HYDRO LH	1
	(SEE FIG 1	6 FOR PARTS BREAKDOW	/N)
(6905	3-05 IS A SI	ERVICEABLE 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

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

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

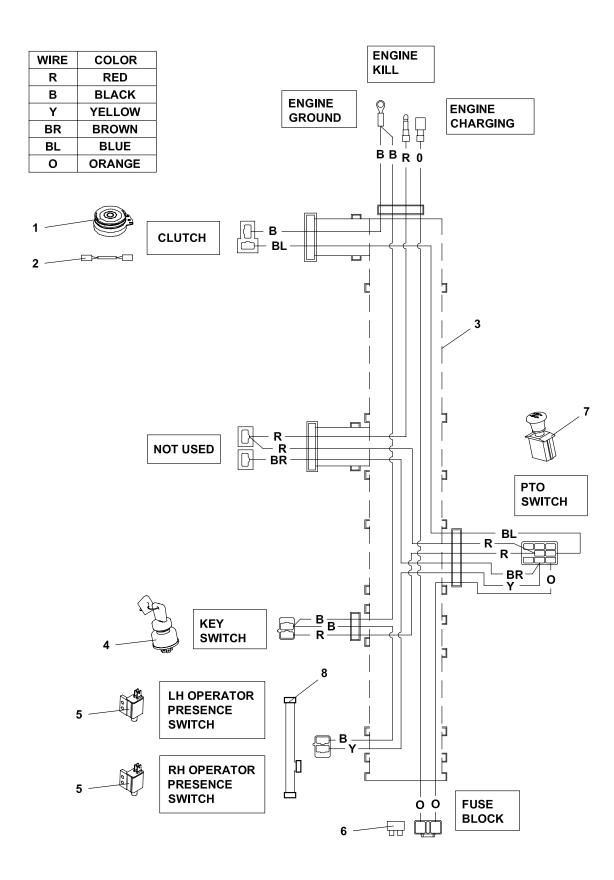


DECALS



4124039-10 FIGURE 10

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
10-1	4119905 (USED ON	LABEL-CTRL PNL HYD 730325 & 730326 MODELS	1				
		LABEL-CTRL PNL W/CHK MODEL 730327)	1				
10-2 10-3 10-4 10-5 10-6 (USE	2000571 4124072	LABEL-PARKING BRAKE LABEL-WARN FUEL PICT DECAL-CAUTION SPANIS LABEL-IMPORTANT LABEL-JACOBSEN SMALE CTRIC START MODELS ONI	1 _ 2				
10-7 10-8 10-9	2000677 2000678 QTY FOR	LABEL-WARNING BLADES LABEL-DANGER/WARNING LABEL-ROT PRTS/B-WSH 36" DECK 48", 54" & 61" DECK UNDER BELT COVER)	G 1				
	2000704 2000673 2000661 2000590 4124073 4120215 00214-10 4109863	LABEL-MIDSIZE PATENT DECAL - OP MAN/TIRES LABEL-HYD TANK WARN LABEL-WARNING BATTER LABEL-JACOBSEN LARGE LABEL-SPEED CONTROL DECAL-PATENT NUMBER LABEL-H.O.C. FLOATING	1				

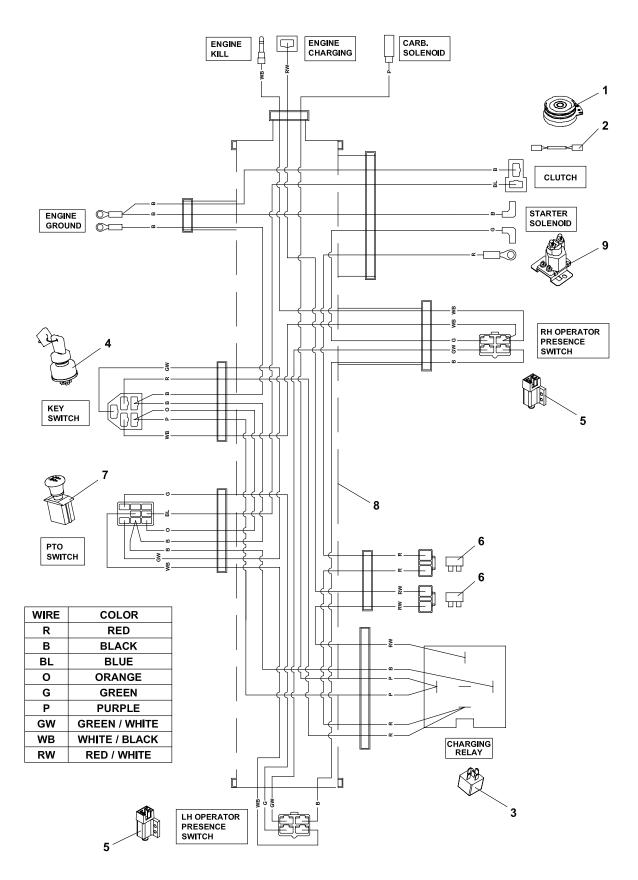


Hydro Midsize

WIRE DIAGRAM-RECOIL START

4118421-11 FIGURE 11

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
11-1	2721110 (INCLUDES	CLUTCH-ELECTRIC S ITEM 2)	1				
11-2 11-3	2720949 4118008 (INCLUDES	ASSY-CLUTCH WIRE HARNESS S ITEM 6)	1 1				
11-4 11-5 11-6 11-7 11-8	38148 38383 148082-10 2721505 4119756	SWITCH-ENGINE STOP SWITCH-N.C. FUSE 10 AMP SWITCH-PTO JUMPER	1 2 1 1				

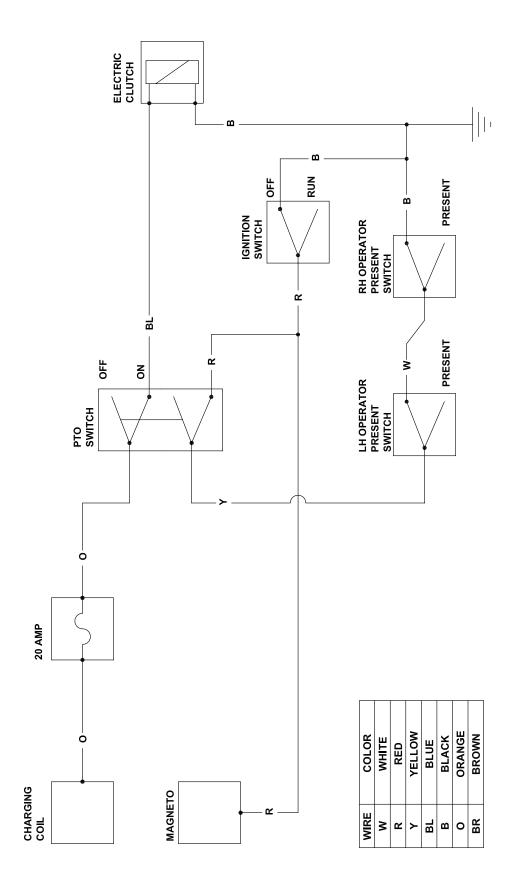


4118421-12 FIGURE 12

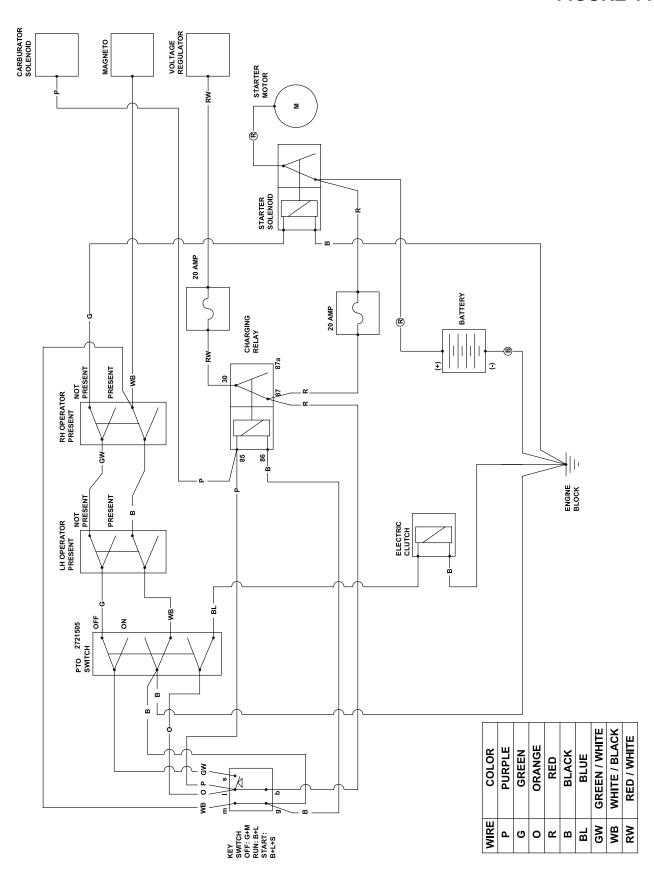
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
12-1	2721110 (INCLUDE:	CLUTCH-ELECTRIC S ITEM 2)	1				
12-2 12-3 12-4 12-5 12-6 12-7 12-8	2722325 128010 2308094 148082-20 2721505 4115352	ASSY-CLUTCH WIRE RELAY-40AMP SEALED KEY SWITCH SWITCH-NCNC DBL POLE FUSE 20 AMP SWITCH-PTO HARNESS, HYDRO ES S QTY OF 2 OF ITEM 6)	1 1 1 2 2 1 1				
		SOLENOID-STARTER CABLE-BATTERY 6.5 RED ER SOLENOID TO STARTE	-				
12-11	(FROM (+)	3CABLE-BTTRY W/CONDU POSITIVE BATTERY TERM D STARTER SOLENOID)					
		CABLE-BTTRY 31.5 BLAC BATIVE BATTERY TERMINA TO ENGINE BLOCK)					

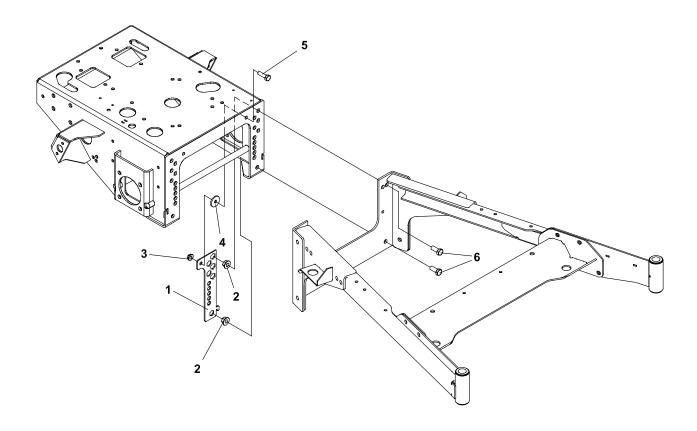
* NOT ILLUSTRATED

FIGURE 13 REF. 4115344 4118421-13



4118421-14 REF. 4115345 **FIGURE 14**

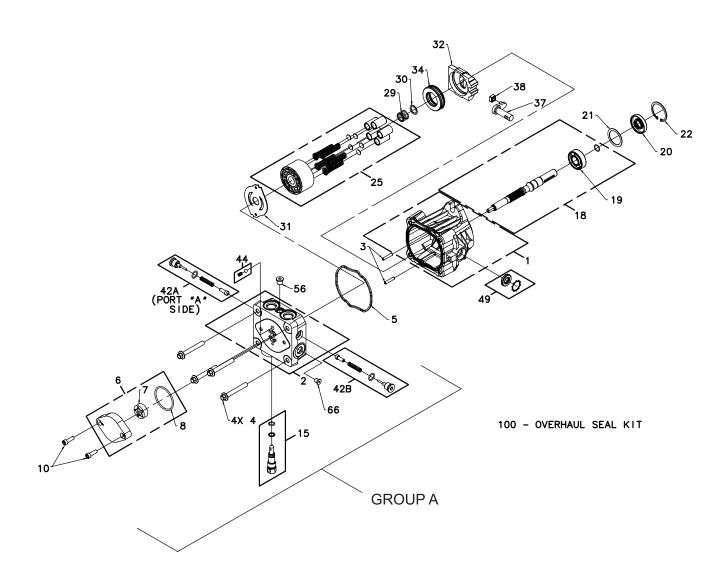




CUTTERDECK MOUNTING



4118421-15						FIG	URE 15
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
15-1	2721991.7	PLATE-NUT	2				
15-2	64246-04	NUT-WHIZ M12-1.75	12				
15-3	64246-03	NUT-WHIZ M10-1.50	2				
15-4	64163-82	WSHR-FLAT.406X1.44X9	GA 2				
15-5	A1104057	BOLT-M10-1.50 X 25	2				
15-6	64263-018	BLT-FLG HD M12-1.75 X	30 4				





2721734-14 FIGURE 16

4112782 PUMP-HYDRO LH ILLUSTRATED AS SHOWN

2721615 PUMP-HYDRO RH 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	x 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 I	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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