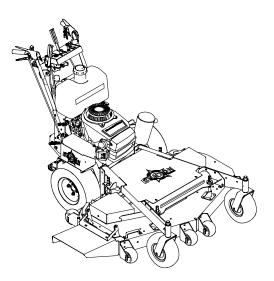


BUNTON®

SETUP, PARTS & MAINTENANCE MANUAL HYDRO MIDSIZE

Power Unit Models:

630322	Power Unit 15HP Kawasaki Hydro
630323	Power Unit 17HP Kawasaki Hydro
630324	Power Unit 21HP Kawasaki Hydro ES
630328	Power Unit 17HP Kawasaki Hydro ES
(Operation	& Safety Manual: 2721849)





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.



2721850 REV D

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.

A WARNING

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.

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.

A DANGER

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

AWARNING

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

ACAUTION

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

CAUTION

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

TEXTRON

GOLF, TURF & SPECIALTY PRODUCTS

SERIAL NUMBER

JOHNSON CREEK, WI MADE IN U.S.A

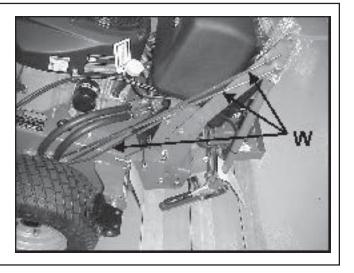
MODEL NUMBER: This number appears on sales literature, technical manuals and price lists.

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

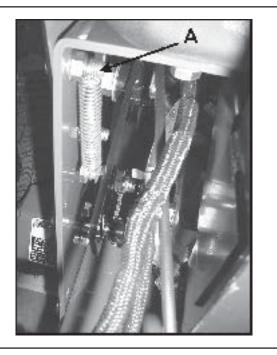


GENERAL NOTE: FRONT, REAR, RIGHT HAND AND LEFT HAND REFERENCES BELOW ARE WITH RESPECT TO AN OPERATOR AT THE CONTROLS.

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

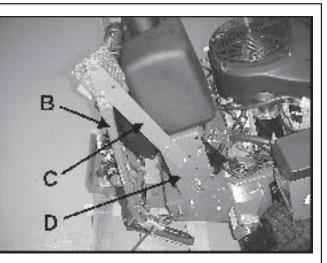


3. Remove spring from bolt **A**. Repeat for other side.



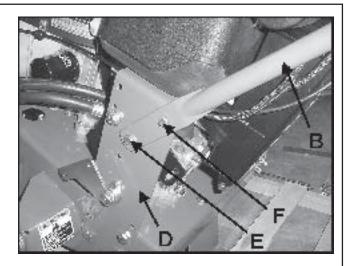


 Unbolt upper handle B from shipping bracket C. Unbolt shipping bracket C from lower handle D. Retain fasteners removed for later use.

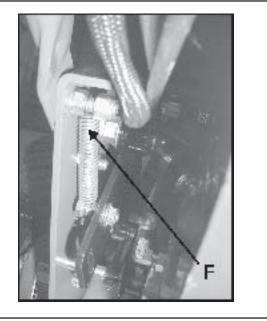


Bolt upper handle B to lower handle D with

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



6. Reinstall spring **F** to bolt on both sides. Install 3/8-16 nylon locknut from the parts bag to the end of bolt on both sides as shown.

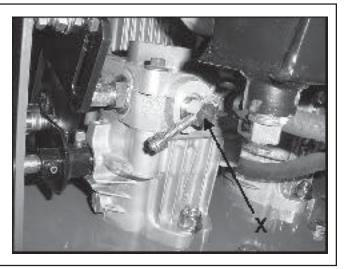




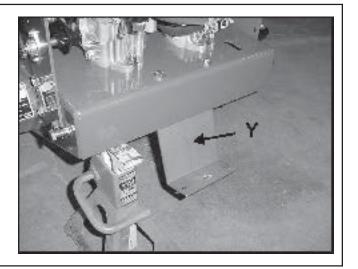
7. Unbolt shipping bracket from crate.



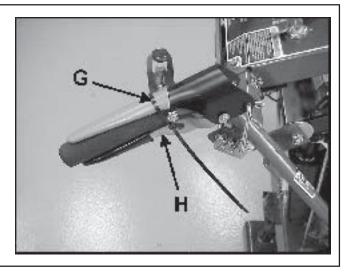
8. Open the bypass valves **X** on each pump by rotating handle counter-clockwise two revolutions.



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

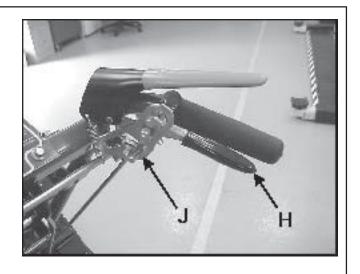


11. Cut and remove tie wrap **G** from the traction control lever **H**.



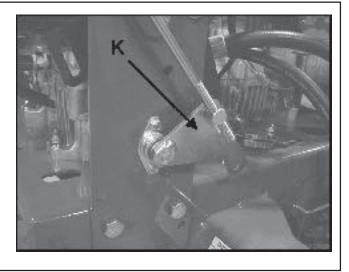
Hydro Midsize

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



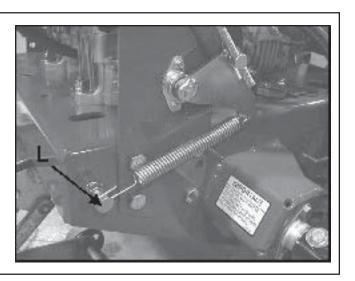
 With the traction locks J in the neutral position, apply tension to the traction control rod to remove any slack and align swivel on traction control rod with the hole in pump arm K. Repeat for other side.

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

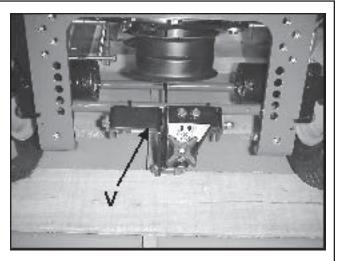




14. Attach spring to pump arm and then to bolt L as shown. Repeat for other side.

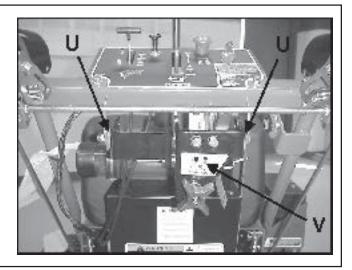


- 15. Cut zip ties and remove tracking control assembly **V** from the front of the power unit.
- 16. Remove the long bolt, (2) friction washers and nut from tracking control assembly **V**.



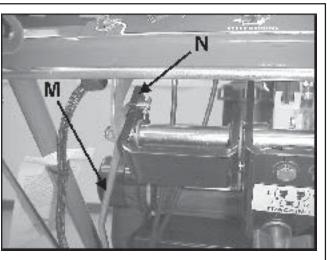
 Attach tracking control assembly V to the upper handle with the tracking adjustment knob facing the rear as shown. Secure tracking control assembly to the upper handle using the long bolt, (2) friction washers U and nut removed in Step 16.

NOTE: The friction washers **U** should be located between the ends of the tracking control assembly and the tabs in the upper handle as shown.

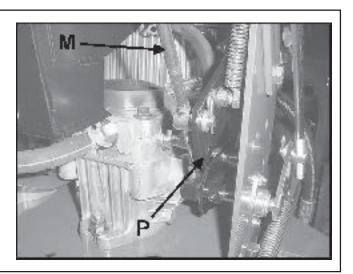




 Connect speed control rod M to the speed control lever N and secure with hairpin as shown. Repeat for other side.

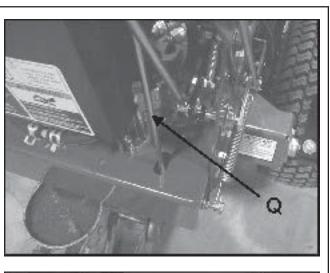


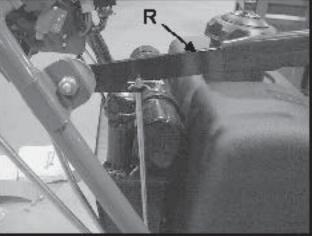
 Set the speed control lever to neutral and adjust the swivel on the lower end of the speed control rod M so they engage the very top of the slot on the neutral plates P and secure with flatwasher and hairpin as shown. Repeat for other side.



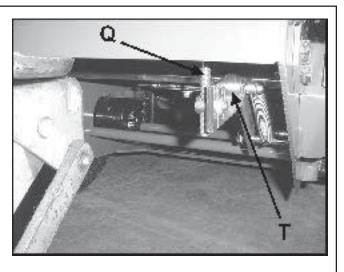


20. Insert threaded end of brake rod **Q** through the slot on the engine deck and attach the other end to the brake control arm **R** and secure in place with hairpin as shown.



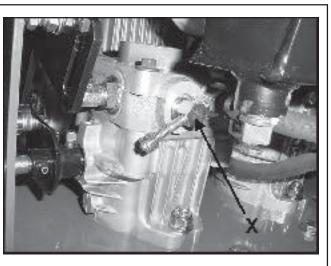


21. Connect swivel on threaded end of brake rod **Q** to the brake arm **T** and secure in place with flatwasher and hairpin as shown. Adjust swivel to provide adequate braking when the brake control arm **R** is engaged. See adjustment section of this manual.





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

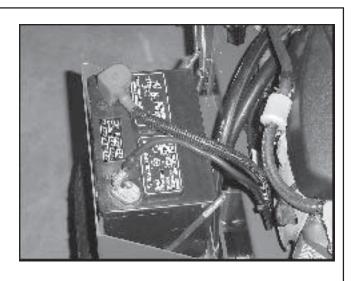


23. On Electric Start Models Only

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.



A WARNING SPARKS OR FLAME CAN START EXPLOSION. DISCONNECT (-)NEGATIVE TERMINAL FIRST. RECONNECT (-)NEGATIVE TERMINAL LAST. 2000590







- 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.

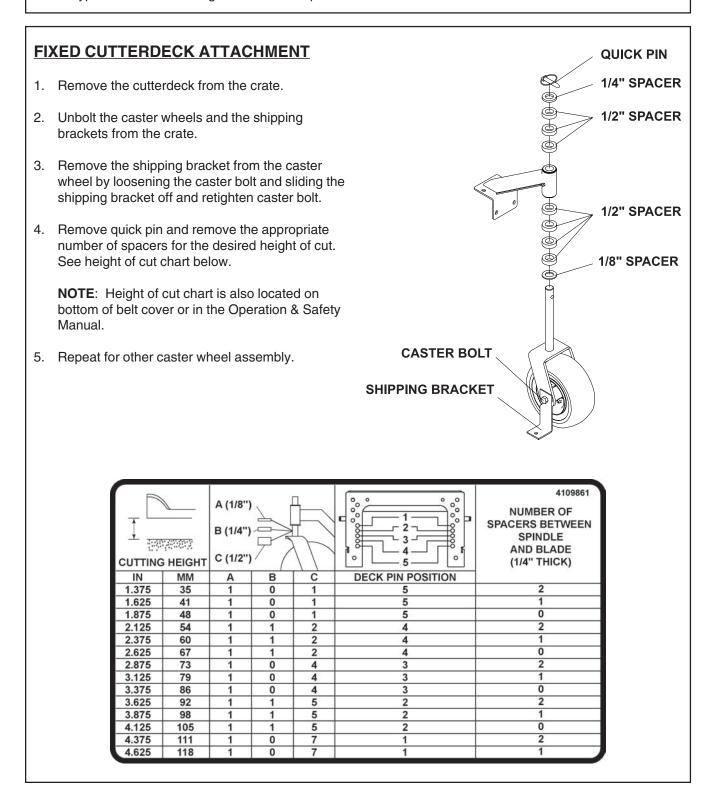
- Before engaging the cutterdeck, run the engine for five minutes at full RPM. This is recommended for new engine installation to permit complete engine lubrication prior to load.
- Do not engage the cutterdeck at full throttle. Set the throttle half way between the highest and lowest engine speed, engage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

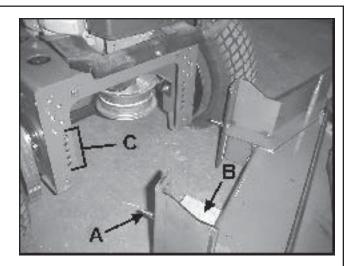


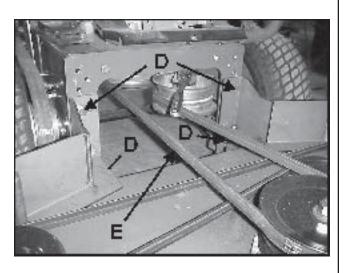


- 6. Remove belt cover and set aside.
- Block the rear of the cutterdeck with the appropriate height block for the desired height of cut **B**. See Support Block Chart below.

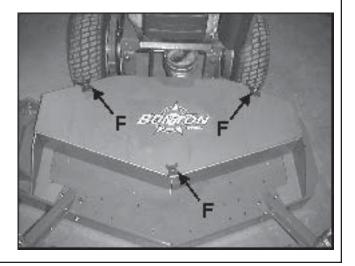
CUTTING HEIGHT	HOLE POSITION ON ENGINE DECK*	BLOCK HEIGHT AT REAR OF DECK (B)					
1.375" - 1.625"	5	1.25"					
1.875" - 2.375"	4	2.00"					
2.625" - 3.125"	3	2.75"					
3.375" - 3.875"	2	3.50"					
4.125" - 4.625"	1	4.25"					
* Position 1 is the highest hole on the engine deck.							

- 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.





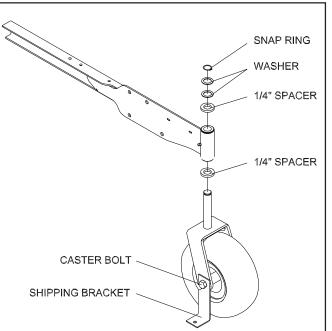
- 11. Reinstall belt cover and fasten in place with knobs **F**.
- 12. Remove support block from the rear of cutterdeck.
- 13. Remove support from the rear of the power unit.



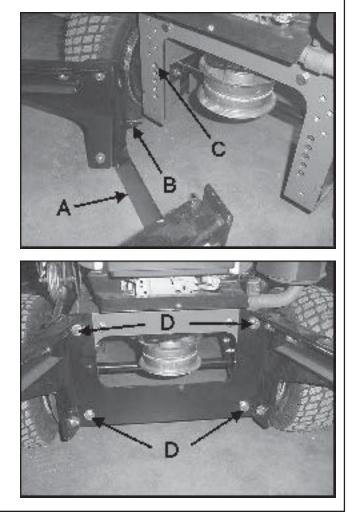


FLOATING CUTTERDECK ATTACHMENT

- 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.
- 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.

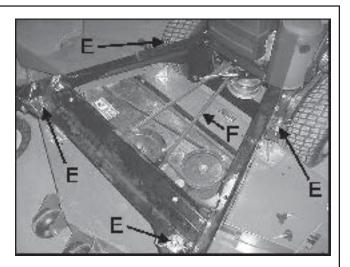


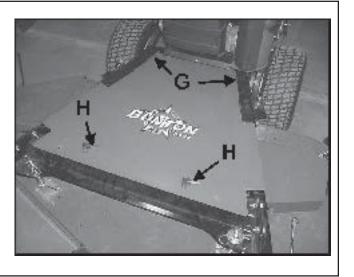


- 10. Position power unit behind the crate and cutterdeck.
- 11. With the cradle raised above the cutterdeck, roll the front of the cradle and power unit up and over the cutterdeck and crate.
- 12. Align height of cut pins **E** on cutterdeck with the bushings on the cradle and lower the cradle so pins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



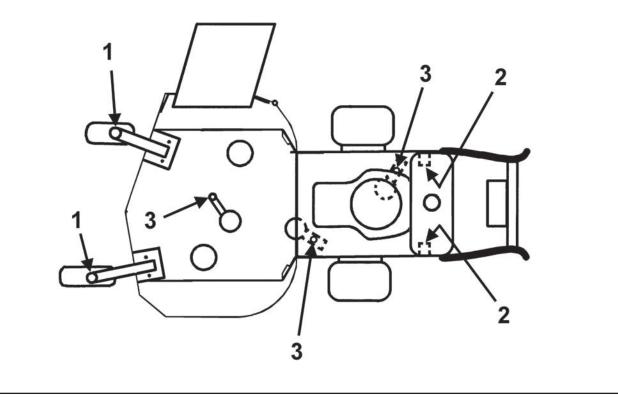




MACHINE LUBRICATION

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.



LUBRICATION



ENGINE

DAILY

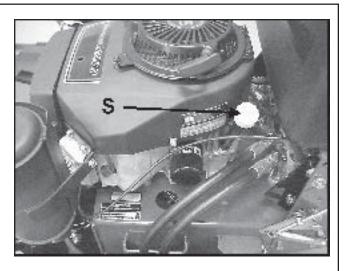
Remove the dipstick **S** and check that the oil level reaches the full mark. If necessary, top off with fresh oil. To obtain the correct oil level, the machine must be level. See engine manufacturer's manual for proper oil viscosity and grade. DO NOT OVER FILL!

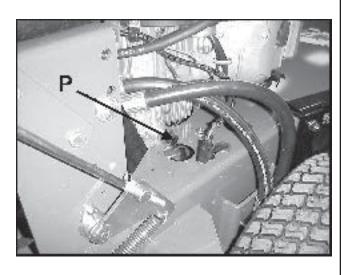
AFTER THE FIRST 5 WORKING HOURS

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

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

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





MAINTENANCE



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)

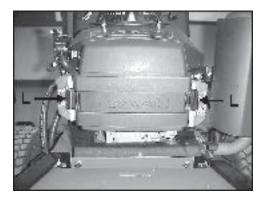
Service more frequently if operating in very dusty or dry conditions. Extensive damage will result from operating with a dirty air cleaner.

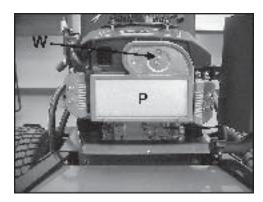
- 1. Remove the air cleaner cover by releasing latches L.
- Remove the foam precleaner P by sliding it off the paper cartridge. Wash in kerosene or detergent and water. Dry thoroughly. Saturate in engine oil. Squeeze to remove excess oil.
- 3. Reinstall all parts.

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.

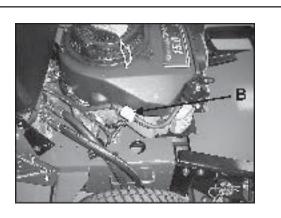






In-Line Fuel Filter

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



MAINTENANCE



Blade Sharpening

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

NOTE:

- Do not overheat or weaken the blades.
- Do not straighten bent blades. Replace with new Bunton blades.

If lift portion of blade is worn thin replace with a new Bunton blade.

- ALWAYS replace with Bunton blades—do not use another manufacturer's blades as this could be dangerous.
- Replace cracked or bent blades.

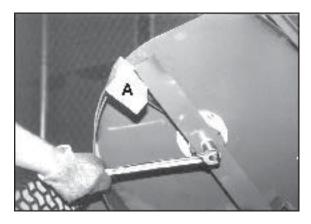
BLADE REMOVAL

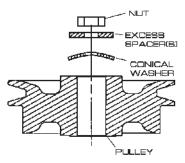
- 1. Use a box wrench or socket with a long breaker bar to remove spindle bolt under cutterdeck.
- 2. Slip tube over breaker bar or wrench if necessary to gain leverage.
- 3. Keep hands clear as blades may rotate when bolt releases.
- 4. When changing blades, wear thickly padded gloves.
- 5. Block blades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

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

BLADE RE-INSTALLATION

- 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.





Cutterdeck Pulley Assembly

SPARK PLUG

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

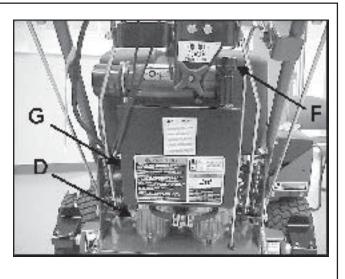


HYDRAULIC RESERVOIR CHECK, DRAIN AND FILL

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

EVERY 500 HOURS:

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





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

SERVICE OPERATION	FIRST 5 HOURS	DAILY	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY 500 HOURS
ENGINE		-	-	-	-	
Check Oil Level		Х				
Check for Oil & Air Leaks		х				
Clean Air Intake		х				
Clean Air Cleaner		х				
Change Oil & Filter*	X SEE ENGINE MANUFACTURER'S MA					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				
Check Belt Tensions		AFTER FIRS		х		
Lubricate All Points				Х		

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



NOTES

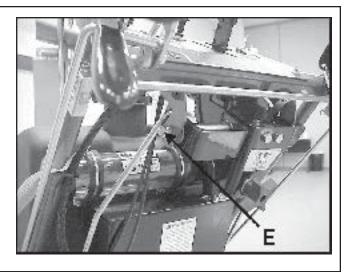
GENERAL	DATE	HRS										
Check tire pressures												
Lubricate all points												
Check nuts & bolts												
ENGINE												
Check oil level												
Change oil												
Clean air cleaner element												
Clean cooling fins												
Replace air cleaner element												
Clean & gap spark plugs												
NOTE: After first 5 hours of operation replace engine oil and filters.												



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

Speed Control Lever Friction

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



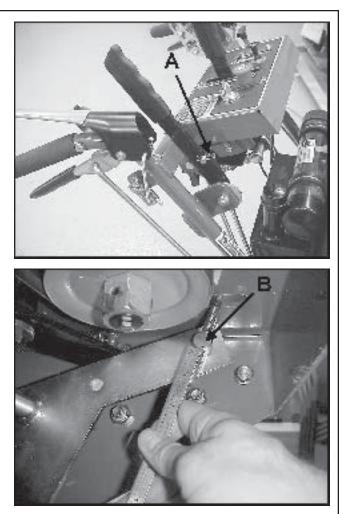
PARKING BRAKE - Apply parking brakes and open the bypass valves on the hydraulic pumps. Try to push the machine forward. If wheels rotate, adjust brakes as follows.

TO ADJUST:

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

NOTE: The brake should initially be adjusted so that the brake rod extends through swivel **B** 1-1/4" as shown. If more brake pressure is required adjust as necessary.

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



ADJUSTMENTS



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

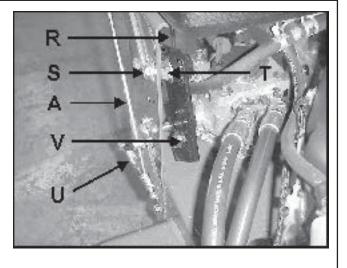
STEP 1 - Set Neutral

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

STEP 2 - Adjust Speed Control Rods

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

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

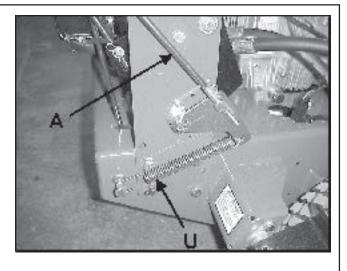




STEP 3 - Adjust Traction Levers

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

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



ADJUSTMENTS

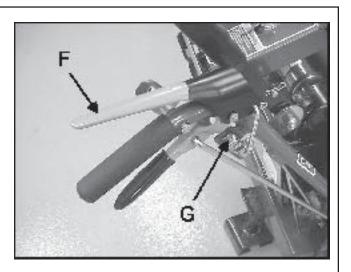


OPERATOR PRESENT CONTROLS

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

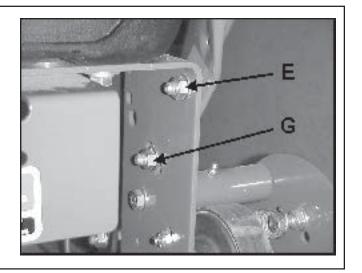
TO ADJUST:

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



HANDLE BAR HEIGHT ADJUSTMENT

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

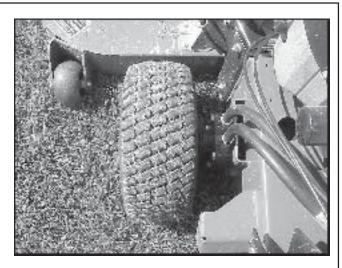




TRACK WIDTH ADJUSTMENT

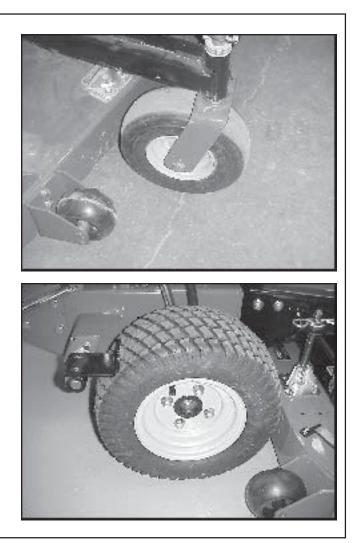
The track width originally set from the factory can be increased an additional 3-1/4" overall by performing the following steps.

- 1. Loosen wheel lug nuts on both drive tires.
- 2. Raise rear of unit so that drive tires are off the ground. Support the unit with jack stands.
- 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 lug nuts until they are snug
- 4. Lower machine off of the jack stands and torque wheel lug nuts to 85 ft-lbs.



TIRE PRESSURE ADJUSTMENT

Tire pressures should be maintained at 14 psi (1.0 kg/cm²).







PTO BELT

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



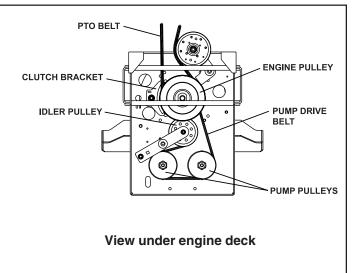
CUTTERDECK BELT

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



PUMP DRIVE BELT

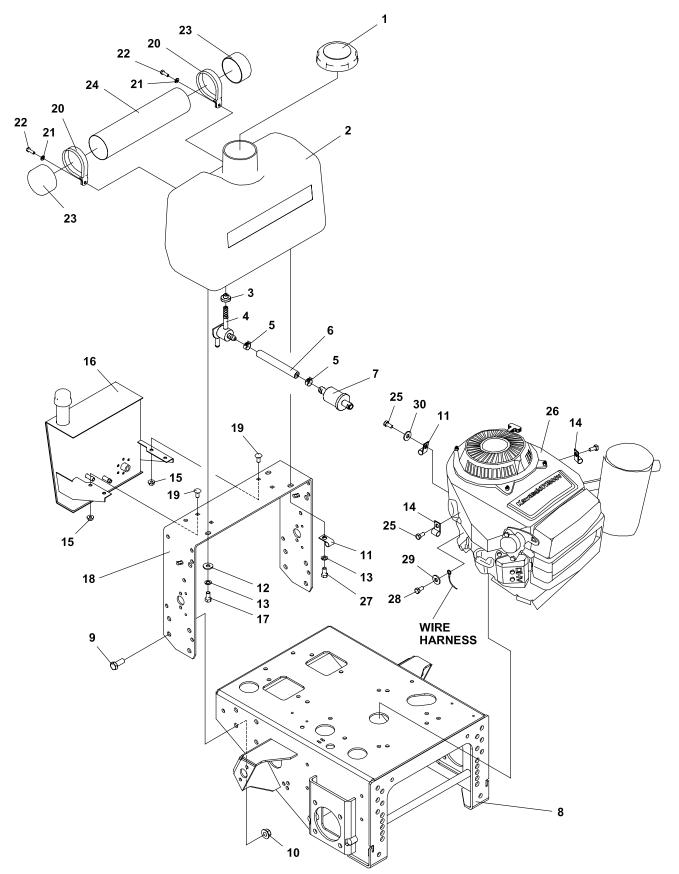
- 1. Remove PTO belt from the engine clutch.
- 2. Disconnect the clutch wire harness.
- 3. Unbolt clutch bracket from clutch and rotate the clutch to allow enough clearance to remove the clutch bracket.
- 4. Rotate idler arm using a 3/8" ratchet or breaker bar inserted into the square hole in the idler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



UPPER ENGINE DECK ASSY



FIGURE 1



UPPER ENGINE DECK ASSY

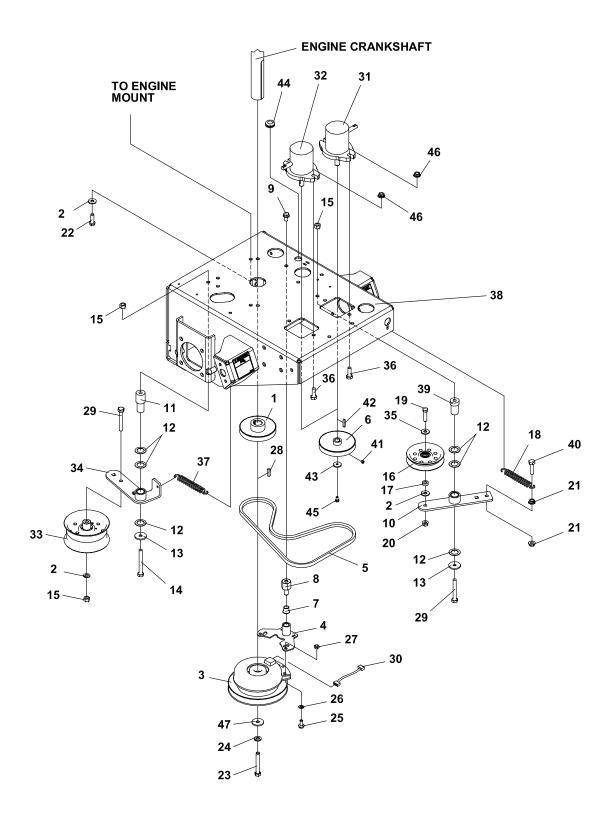


2721850-01

FIGURE 1

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1-1 1-2	2721520 2721540 (INCLUDES I	CAP-FUEL GASOLINE 3.5 TANK-FUEL MID BUNTON TEMS 3 & 4)	1 1		64002-04 64163-03	LOCKWASHER, EXT. 5/16 WSHR256ID X .62OD	1 1
1-3 1-4 1-5 1-6	38540 88042N 48016-4A USE 16.5" OI	S BUSHING,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	* A'	VAILABLE TI	HROUGH KAWASAKI DEAL	ER.
1-9 1-10 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 #999924 2721379 2722214 2722212 2722213	ENG-21HP KAW W/CHARG OILFILTER AIR FILTER PAPER ELEME FILTER FOAM PRECLEANI ANUAL 21 HP	8 5 8 2 3 4 2 4 1 3 1 4 2 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1				
	64205-018	BLT-HEX 3/8-16 X 1 BLT MET M8-1.25 X 15 ECOIL START MODELS ON	1 1 LY)				







B	Hydro Midsize
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2-44 148034-08

2-45 64205-013

2-46 64265-05

2-47 64163-51

2721850-02

INSUL. GROMMET 1.125OD 1

NUT-FL NYLOCK M10-1.5

WSHR.453 X 1.38 X 7GA

2

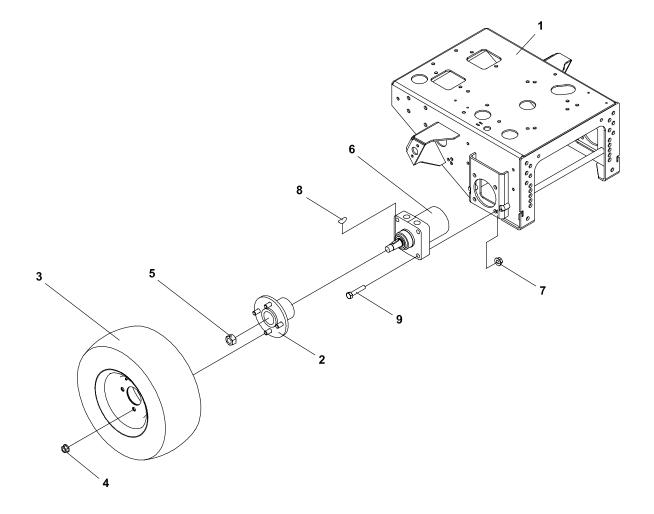
4

1

BLT-MET M6-1 X 12

~~	*	2721000 02					
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	6				
2-3	2721110	CLUTCH-ELECTRIC	1				
2-4	2721331.7	WLDMT-CLUTCH STOP M	ID 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	2721398	PIN-CLUTCH	1				
2-9	64264-01	BLT-WLF M10-1.5 X 16	1				
2-10	2721641.7	WLDMT-IDLER ARM	1				
2-11	2721652	PIN-PIVOT	1				
2-12	64163-65	WASHER 0.890 X 1.375	6				
2-13	64163-82	WSHR-FLAT.406X1.44X9G	A 2				
	64205-012	BLT-MET M10-1.50 X 90	1				
2-15	64237-03	LOCKNUT-NYLON M10-1.5	3				
2-16	2308000	PULLEY-IDLER 4.00 EOD	1				
	33148-01	SPACER	1				
	38219	SPRING-TENSION	1				
	64123-87		1				
	64141-4	NUT-WLF 3/8-16	1				
	64246-03	NUT-WHIZ M10-1.50	2				
	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				
	64205-001	BLT-MET M8-1.25 X 20	2				
	64251-003	WHSR-M8	2				
	64237-05	LOCKNUT-NYLON M8-1.25					
	64164-12	1/4X1/4X1 SQ END KEY	1				
	64205-17	BLT-MET M10-1.50 X 75	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				
	64205-036 2188131	BLT-MET M10-1.50 X 35	4				
	4113608	SPRING-EXTENSION	1				
		S-ENG DECK BUNTON HY	D 1				
	2721723 64205-011	PIN-PIVOT BLT-MET M10-1.50 X 40	1				
	64205-011 64044-6	SCREW-SET 5/16-18 X 1/4	1 /				
	64044-6 64238-03	KEY-MET 5MM SQ X 28	4 2				
	64238-03 64209-09	WASHER-CONICAL SPRIN	_				
2-43	04203-03						



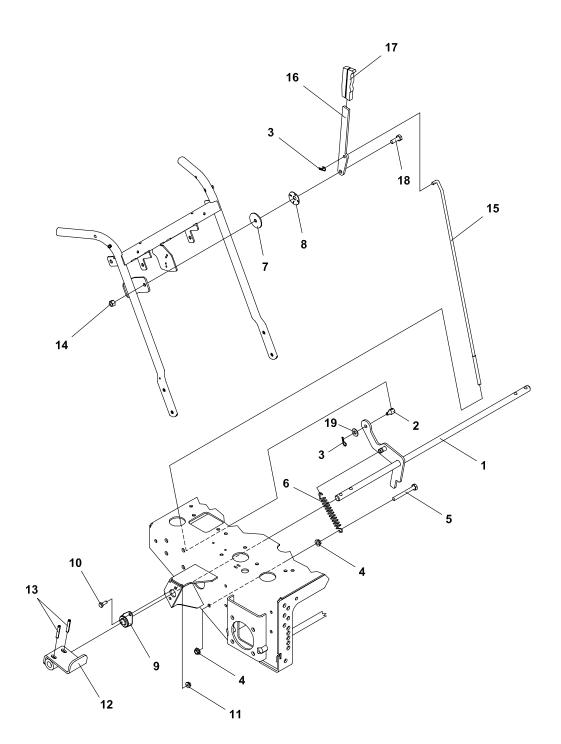


DRIVE WHEELS



Ľ.		Iasize	2721850-03				FI	GURE 3
ITEN	I PART NO.	DESCRII	PTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
3-1 3-2 3-3		S-ENG DECH WLDMT-HUE ASSY-WHEE TIRE-16X7.5 WHEEL W/ D	3 EL 16 X 7.50 X 0X8 MLTI TRO	2 (8 2 C 1				
3-4 3-5 3-6 3-7 3-8 3-9	2721956-02 64267-01 64025-06 2308051 64246-04 64164-28 64205-028	WHEEL W/ D NUT-HEX FL NUT-HEX 3/4 MOTOR-WH NUT-WHIZ M #808 WOOD BLT-MET M1	ANGED 1/2-2 I-16 2A EEL ROSS M I12-1.75 RUFF KEY	0 8 2				

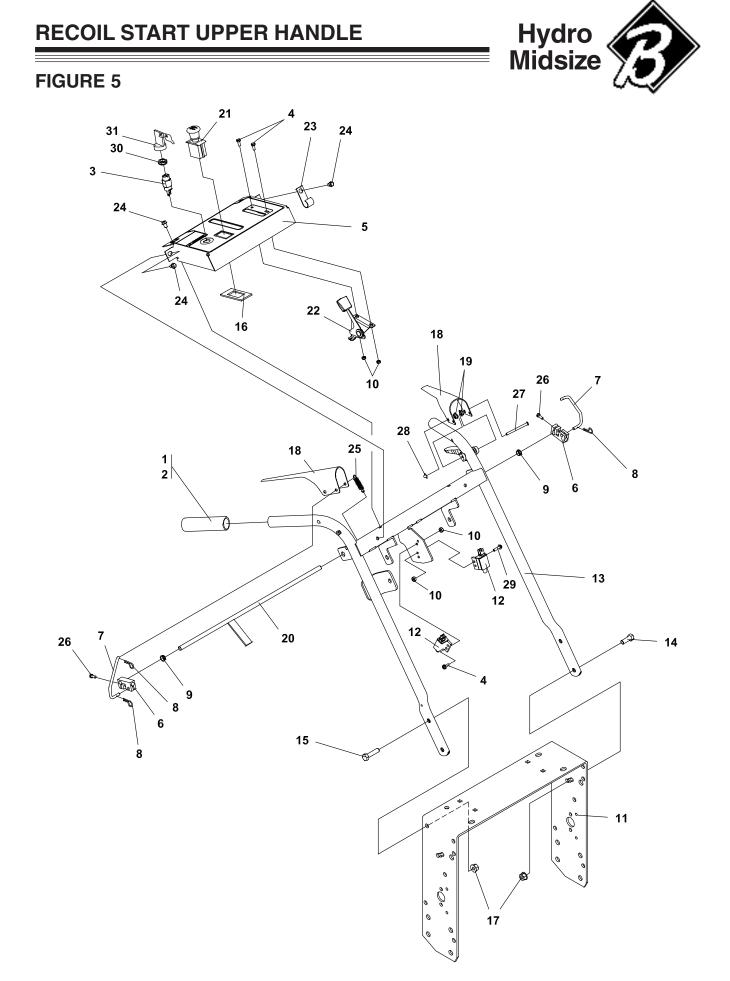




PARKING BRAKE



6		2721850-04				FIC	GURE 4
ITEM	I PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
4-11 4-12 4-13 4-14 4-15 4-16 4-17 4-18	2721637 33103 64168-2 64246-03 64205-012 2188131 64163-17 64171-2 2188145 64205-001 64246-02 2721725.7 64061-09 64237-03 2721726 2721632.7 38404-01 A110406 64163-02	WLDMT-BRAKE SHAFT SWIVEL COTTER-HAIRPIN.08X1.1 NUT-WHIZ M10-1.50 BLT-METRIC M10-1.50 X SPRING-EXTENSION 25/64 X 2 X 11GA WASHF WAVE WASHER BEARING75ID SELF ALI BLT-METRIC M8-1.25 X 2 NUT-WLF M8-1.25 WLDMT-SCRUBBER ROLL PIN-3/8 X 2 LOCKNUT-NYLON M10-1. ROD-BRAKE LEVER-BRAKE GRIP-CONTROL LEVER BOLT-M10-1.5 X 30 WSHR324 X .596 X 11G/	2 90 1 1 3 1 GN 2 0 4 2 4 2 4 .5 1 1 1 1 1				



RECOIL START UPPER HANDLE



		2721850-05				FIGU	JRE 5
ITEM PA	ART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
5-1 PL50 5-2 *2308 (USE	8121	GRIP-HANDLE ADHESIVE-3 GRAM TUBE L5029 GRIP)	2 1				
5-3 3814 $5-4$ 6415 $5-5$ 4113 $5-6$ 2303 $5-7$ 2721 $5-8$ 6416 $5-9$ 3837 $5-10$ 6402 $5-11$ 2722 $5-12$ 3838 $5-13$ 2721 $5-14$ 6412 $5-15$ 6412 $5-16$ 2188 $5-17$ 6414 $5-18$ 2302 $5-19$ 3837 $5-20$ 2721 $5-21$ 2721 $5-22$ 1180 $5-23$ 4841 $5-24$ 6424 $5-25$ 2721 $5-26$ 6419 $5-27$ 6418 $5-28$ 6417 $5-29$ 6415 $5-30$ 1280 $5-31$ 1280	52-46 3726 3023 1825 68-2 71-01 25-15 2269.5 83 1556.5 23-50 23-70 8178 41-4 2152.7 71-03 1426 1505 020-16 12 48-01 1904 97-002 88-44 75-01 52-49 010-01 010-03	SWITCH-ENGINE STOP SCR-SLT HH 10-24X1/2 S-CNTRL PNL HYD BUNTO CONNECTOR-OP ROD-HANDLE LH LINK COTTER-HAIRPIN.08 X 1.1 BRG-NYLINER 3/8 NUT-HEX #10-24 KEPS HANDLE-LOWER SWITCH-N.C. WLDMT-HYD UPPER HND BOLT, 3/8-16X1 HEX BLT-HEX 3/8-16X1-1/2 SWITCH-RETAINER NUT-WLF 3/8-16 HANDLE-OPERATOR BRG-NYLINER 3/16 WLDMT-OP PRES SWITCH-PTO CABLE-THROTTLE 48.00 CLIP-CABLE 5/8 J X 8.74 BLT-TDFM 1/4-20X3/4 PIN-CLEVIS 3/16 X 2.25 PUSHNUT-3/16 ROD SCR-SLT HH 10-24X3/4 S-KEY SWITCH NYLON NU S-COVERED KEY	2 9 4 2 4 2 4 2 4 2 4 1 1 4 1 4 2 2 2 4 2 2 2 2 2 4 2 2 2 4 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2				

Hydro Midsize **ELECTRIC START UPPER HANDLE** FIGURE 6 3 -Ą 24 _ An a . 2 J J Ð (ہ the B 15 -ہ ھگ Ø 0°° 63 6 ,0 Ð °, ,0

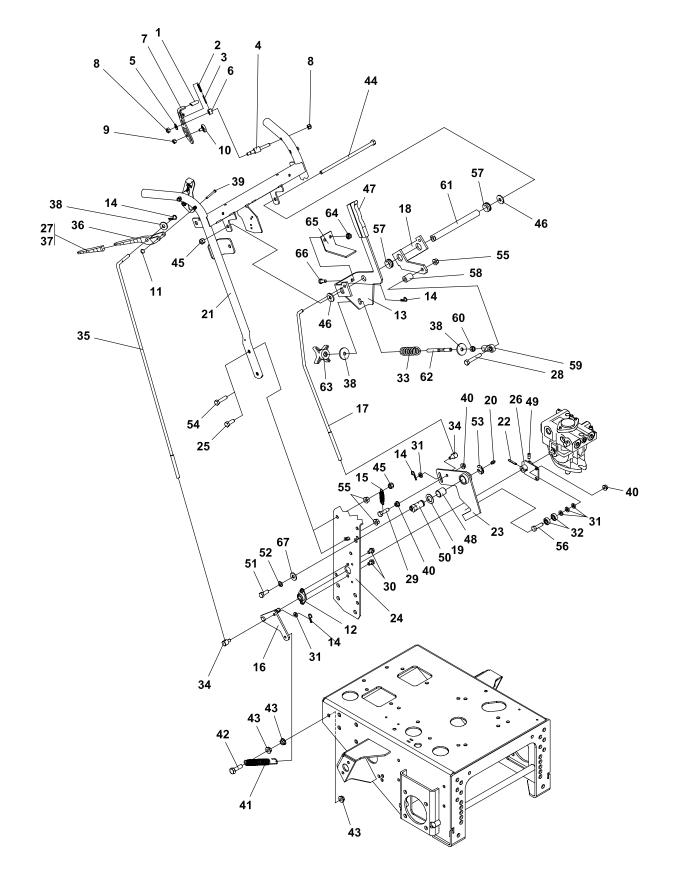
ELECTRIC START UPPER HANDLE



U.		IUSIZE	2721850-06					FIGURE 6
ITEN	I PART NO.	DESCRIF	ΡΤΙΟΝ	QTY	ITEM	PART NO.	DESCRIPTION	N QTY
6-1 6-2	PL5029 *2308121 (USE WITH F	GRIP-HANDL ADHESIVE-3 PL5029 GRIP)	E GRAM TUBE	2 1				
6-3 6-4 6-5	64152-46 4113727	KEY SWITCH SCR-SLT HH S-PNL CNTR 30324 ONLY)		1 4 1				
	4113726 (USE ON 630	S-PANEL, CN 0328)	ITRL HYD	1				
$\begin{array}{c} 6-7\\ 6-8\\ 6-9\\ 6-10\\ 6-11\\ 6-12\\ 6-13\\ 6-14\\ 6-15\\ 6-16\\ 6-17\\ 6-18\\ 6-19\\ 6-20\\ 6-21\\ 6-22\\ 6-23\\ 6-24\\ 6-25\end{array}$	2303023 2721825 64168-2 38371-01 64025-15 2722269.5 2308094 2721556.5 64123-50 64123-70 2188178 64141-4 2302152.7 38371-03 2721426 2721505 118020-16 48412 64248-01 64152-49 64197-002	BRG-NYLINE NUT-HEX #10 HANDLE-LOV SWITCH-NCI	E LH LINK IRPIN.08 X 1.1 FR 3/8 0-24 KEPS WER NC DBL POLE 0 UPPER HNDL X1 HEX -16X1-1/2 TAINER 3-16 ERATOR FR 3/16 PRES D DTTLE 48.00 5/8 J X 8.74 M M8X15 10-24X3/4	2 6 1 1				
6-28	(ITEMS 27-29 108009-03 64163-61 64025-04	9 USED ON 63 CONTROL-C WSHR .81X.4 NUT-3/8-24 F	HOKE 51 406 X 16GA	1 1 1				
6-31 6-32	108208 2721904 64188-44 64175-01	SWITCH DBL SPRING-EXT PIN-CLEVIS 3 PUSHNUT-3/	ENSION 3/16 X 2.25	1 1 2 2				
	* N0	OT ILLUSTRA	TED					

TRACTION CONTROLS







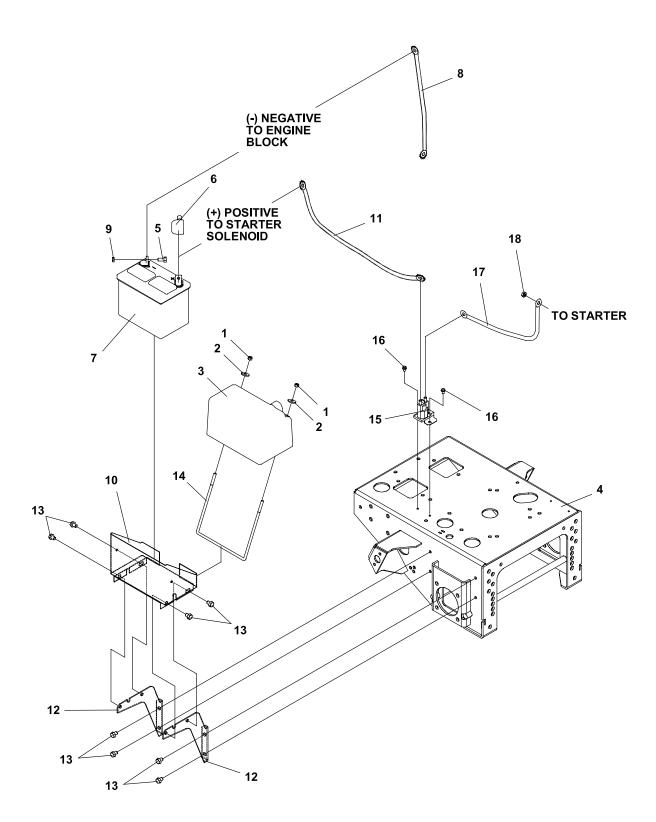


2721850-07

ITEM PA	RT NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	ЭТΥ
7-1 27224	426	GRIP-TRACTION LOCK	2	7-48	2308076-02	BEARING-PLASTIC	2
7-2 3818	9	SPRING-COMPRESSION	2	7-49	64192-04	SCREW 5/16-18	2
7-3 6406	1-37	ROLL PIN-1/8 X 1.00 SS	2	7-50	2303058	ECCENTRIC SHAFT W/ZRK	2
7-4 23030		STUD-DOUBLE ENDED	2	7-51	64123-02	BLT HEX 3/8-24 X 1	2
7-5 62464		WASHER, THRUST 5/16X3/	4 2		64006-03	LOCKWASHER 3/8	2
7-6 33243		SPACER	2		64144-16	SNAP RING	2
7-7 2722		TRACTION LOCK LH	1		64123-70	BLT-HEX 3/8-16X1-1/2	2
* 27222		TRACTION LOCK RH	1		64141-4	NUT-WLF 3/8-16	5
7-8 64229		5/16-18 NYLON LOCKNUT	4		64123-69	BOLT-5/16-18X1-1/2 HEX	2
7-9 64229		LOCKNUT NYL 1/4-20	2		118047-09	BUSHING-FLIP LOK.75ID	2
7-10 23080		BRG-RADIAL W/THD STUE			2721853	SPACER-19.05 X 10.31 X 27	
7-11 6417		PUSH NUT	2		138011	BALL JOINT	1
7-12 23080		BEARING SELF ALIGNED	2		64001-2	NUT 3/8-16	1
7-13 27218		ARM-RH SPEED CONTRO			2721844	BUSHING-SPEED CONTRO	-
7-14 6416		HAIRPIN COTTER	8		2721854	STUD-3/8-16X 3/8-24 4.5LG	1
7-15 2308		SPRING EXTENSION	2		38524	KNOB-4 PRONG 3/8-16	1
7-16 2721		WLDMT-PUMP ARM RH	1		64246-02	NUT-WLF M8-1.25	2
*2721		WLDMT-PUMP ARM LH	1		2721818.7	BRKT-SWITCH ACTUATOR	
27210	022		I		64205-001	BLT-MET M8-1.25 X 20	2
7-17 2722	205	ROD-SPEED CONTROL	2		64163-61	WSHR .81 X .406 X 16GA	2
7-18 27218		ARM-LH SPEED CONTROL		7-07	04103-01	W3HR .81 A .400 A TOGA	2
7-18 27216	-	WSHR.768/.756X1.25X14G					
7-20 85010 7-21 2721		ZERK, 1/4-28 STR WLDMT-HYD UPPER HND	2			ASSY'S ARE ALSO AVAILABL	-
7-21 2721				IRA			
		ROLL PIN 3/16 X 1 1/4	2		4114423	• • • • • • • • • • • • • • • • • • • •	1
7-23 2721		WLDMT-SPEED CONTROL			(INCLUDES I	TEMS 1-4, 6, 7, 9-12)	
7-24 2722		HANDLE-LOWER	1		4444400		
7-25 6412		BOLT, 3/8-16X1 HEX	2		4114422	S-TRCTN LOCK ASSY LH	1
7-26 2306		WLDMT PUMP ARM	2		(INCLUDES I	TEMS 1-4, 6, 7, 9-12)	
7-27 *2308			1				
(USE	WIIH2	722426 GRIP)			* NC	OT ILLUSTRATED	
7-28 64123	3-100	BOLT-3/8-16X2-1/4 HEX	1				
7-29 6412		BLT-HEX 5/16-18 X 1	2				
7-30 6413		BLT-WLF 5/16-18X1/2	4				
7-31 6416		WSHR 21/64X19/32X11 GA					
7-32 38372		BEARING BALL	4				
7-33 2720		SPRING-COMP IDLR PLAT	-				
7-34 3310		SWIVEL	4				
7-35 27218		ROD-TRACTION CONTRO					
7-36 31032		LEVER TRACTION CNTRL					
7-37 3800		GRIP TRACTION CNTRL	2				
7-38 6416		WASH 25/64X1X12 GA	4				
7-39 6418		PIN-CLEVIS 3/16 X 2.25	2				
7-39 6416		NUT-WLF 5/16-18	6				
7-40 8414		SPRING EXTENSION	2				
7-41 41172		BLT-MET M10-1.50 X 40	2				
7-42 6420		NUT-WHIZ M10-1.50 X 40	6				
			-				
7-44 6412		BLT-HEX 3/8-16 X 9	1				
7-45 6422		NUT-NYLOCK 3/8-16	3				
7-46 23080		FRICTION WASHER	2				
7-47 38404	4-01	GRIP-CONTROL LEVER	1				







ELECTRIC START BATTERY



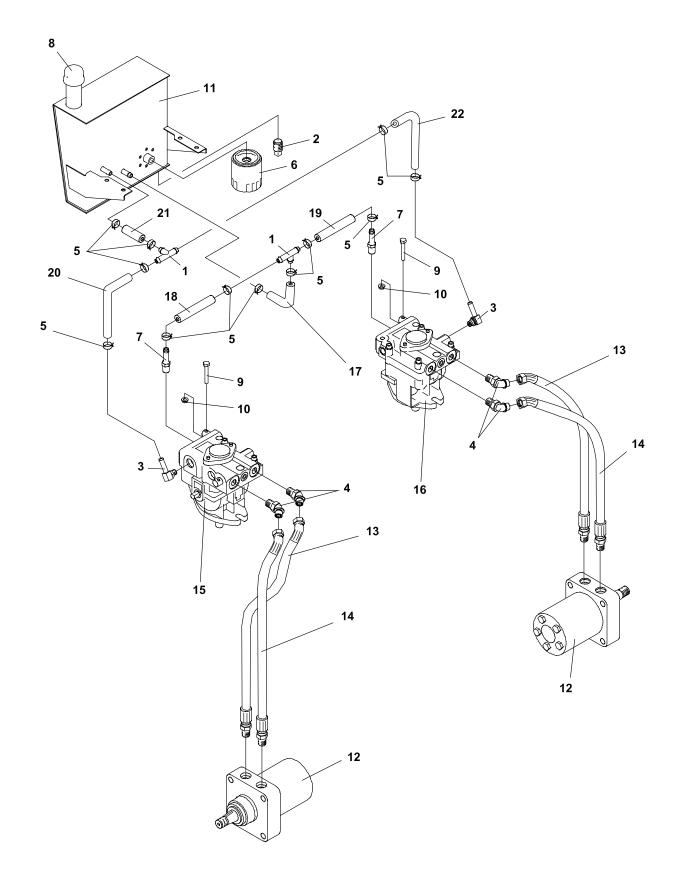
2721850-08

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	4113608	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	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 DOWN	V 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





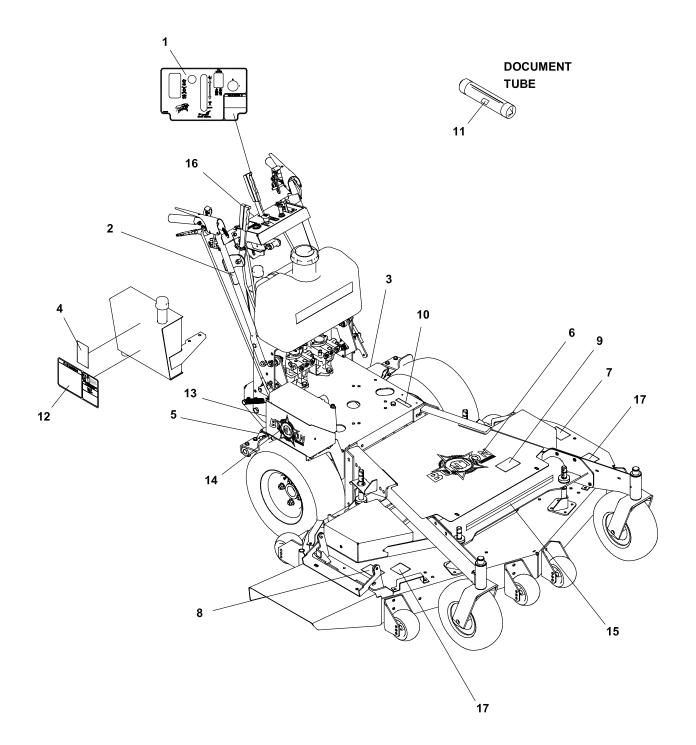


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FIGURE 9

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTIO	Ν QTY
9-1 9-2 9-3	58026-01 108029 158058-04	3-WAY CONNECTOR PLUG, MAGNETIC FITTING-90 BARB, ADJ.	2 1 2		SERVICEAB	LE HYDRAULIC O	-RINGS
9-4 9-5	108205-02 88042-04	ELBW-MALE 45 8X8 37-OF CLAMP-HOSE 5/8"	RB 4 12		SA	e port 'o' ring	
9-6 9-7 9-8	2720396 69060-01 69216.7	FLTR, 25 MCRN SM CAM FTG-BARB 9/16 X 3/8 ST CAP-RESERVOIR	1 2 1		PART NUMBER	THREAD SIZE	AS-568#
9-9 9-10	64123-60 64229-01	BOLT, 1/4-20X2 HEX LOCKNUT-NYLON 1/4-20	2 2		158061-10	9/16-18	-906
9-11	2306127	S HYD RESER W/LABS	1		158061-11	3/4-16	-908
9-13	2308051 2692300-01	MOTOR WHEEL ROSS HOSE-1/2 37/ORB X 18.5 L			158061-12	7/8-14	-910
	2692300-02 4112782	HOSE-1/2 37/ORB X 18.5 L PUMP-HYDRO LH	-G 2 1		158061-13	1-1/16-12	-912
	(SEE FIG 16	FOR PARTS BREAKDOWN	l)		158061-14	1-5/16-12	-916
9-16	2721615 (SEE EIG 16	PUMP-HYDRO RH FOR PARTS BREAKDOWN	1		158061-16	1-5/8-12	-920
(6905		RVICEABLE LENGTH OF 55	,		158061-03	1-7/8-12	-924
9-17 9-18 9-19 9-20 9-21	69053-05 69053-05 69053-05 69053-05 69053-05 69053-05	3/8 HI TEMP HOSE 17.0" 3/8 HI TEMP HOSE 5.0" 3/8 HI TEMP HOSE 5.0" 3/8 HI TEMP HOSE 7.5" 3/8 HI TEMP HOSE 6.8" 3/8 HI TEMP HOSE 12.0"	1 1 1 1 1 1 1	<u>DO N</u>		NOTE: tape on any hydr liquid pipe sealan	

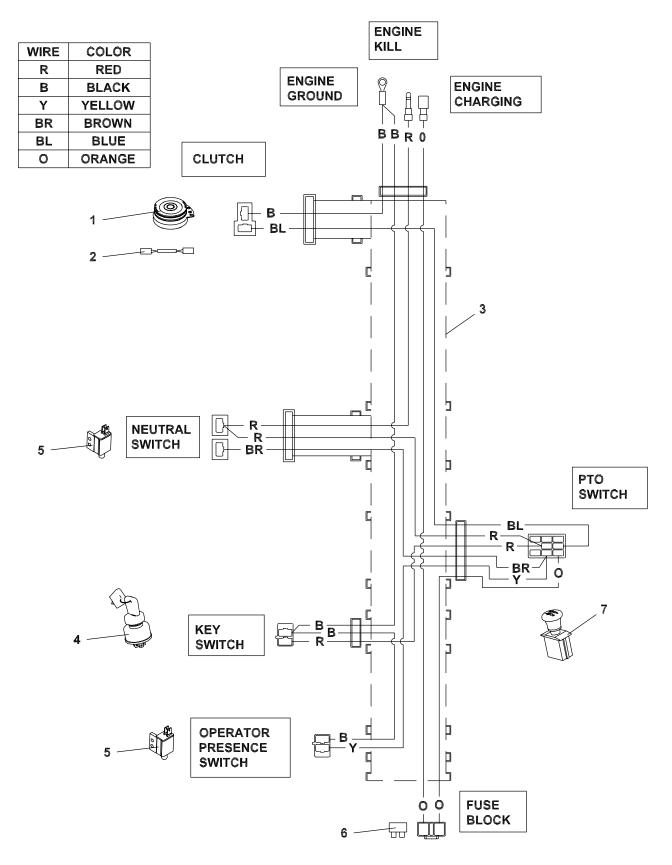




♥♥	lidsize				FIG	URE 1
TEM PART NO		QTY	ITEM	PART NO.	DESCRIPTION	
10-1 2721845 (USED ON 630	LABEL-CTRL PNL HYD 322, 630323, 630328 MOD	1				
2722249 (USED ON N	LABEL-CTRL PNL W/CH //ODEL 630324)	IK 1				
	LABEL-PARKING BRAK LABEL-WARN FUEL PIO DECAL-CAUTION SPAN LABEL-IMPORTANT LABEL-BUNTON TEXTR LABEL-WARNING BLAD LABEL-DANGER/WARN LABEL-ROT PRTS/B-WS 5" DECK 3", 54" & 61" DECK JNDER BELT COVER)	CT 1 ISH 1 ION 1 ES 1 ING 1				
10-10 2000704 10-11 2000673 10-12 2000661 10-13 2000590 (USED ON ELE	LABEL-MIDSIZE PATEN DECAL - OP MAN/TIRES LABEL-HYD TANK WAR LABEL-WARNING BATT CTRIC START MODELS C	6 1 N 1 ERY 1				
10-142721885 (USED ON ELE	LABEL-BUNTON SMALL CTRIC START MODELS C					
(36" FIXED I (36" FLOATI (48" FIXED I (48" FLOATI (52" FLOATI	LABEL-BUNTON STRIP DECK LENGTH OF 24") NG DECK LENGTH OF 19 DECK LENGTH OF 33") NG DECK LENGTH OF 22 NG DECK LENGTH OF 26 NG DECK LENGTH OF 31	") 5") 5")				
10-16 4110260 10-17 4109863	LABEL-TRACKING CNT LABEL-H.O.C. FLOATIN					

WIRE DIAGRAM-RECOIL START





WIRE DIAGRAM-RECOIL START



	idsize	2721734-11				F	IGURE 11
ITEM PART NO	DESCRIP	TION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
11-1 2721110 (INCLUDES	CLUTCH-ELE ITEM 2)	CTRIC	1				
11-2 2720949 11-3 2721801 (INCLUDES	ASSY-CLUTC HARNESS ITEM 6)	CH WIRE	1 1				
	ITEM 6) SWITCH-ENG SWITCH-N.C	D	1 2 1 1				

Hydro Midsize WIRE DIAGRAM-ELECTRIC START **FIGURE 12** FUSE FUSE 6 닙 뮤 6 -BLOCK BLOCK R 0 0 R 5 WIRE COLOR Г ٦ RED R OPERATOR BLACK В PRESENCE В Y YELLOW SWITCH BR BRÖWN YB BL BLUE Ö ORANGE W Ρ PURPLE Ō KEY P SWITCH В 8 В R R -D 0-Y-YΒ ζ - BR -BR · NEUTRAL Y SWITCH W Y R W w Y w Д PTO 3 SWITCH 10 ENGINE B GROUND В в 7 р Ľ 9 $\langle \bigcirc$ R STARTER ٢ Æ SOLENOID Ľ BL CLUTCH ENGINE 6 В KILL CARBURETOR SOLENOID **USED ON 630324** R 2 MODEL ONLY ENGINE CHARGING

WIRE DIAGRAM-ELECTRIC START



ん			2721734-12					FIG	URE 12
ITEM	I PART NO.	DESCRIP	NOIT	QTY	ITEM	PART NO.	DESC	CRIPTION	QTY
12-1	2721110 (INCLUDES		CTRIC	1					
12-3 12-4 12-5 12-6 12-7	2308094 148082-20 2721505 2721727	ASSY-CLUTC SWITCH DBL KEY SWITCH SWITCH-NCM FUSE 20 AMF SWITCH-PTC HARNESS-H' QTY OF 2 OF I	. POLE I NC DBL POLE D YDRO MAIN	1 1 1 2 1 1					
	0*108061-15	SOLENOID-S CABLE-BATT RTER SOLENC	ERY 6.5 RED						
12-11	(FROM (+) P	CABLE-BTTR OSITIVE BATT R SOLENOID)							
12-12		CABLE-BTTR EGATIVE BATT BLOCK)							
	* N(OT ILLUSTRAT	ΓED						

WIRING SCHEMATIC-RECOIL START

FIGURE 13



2721850-13

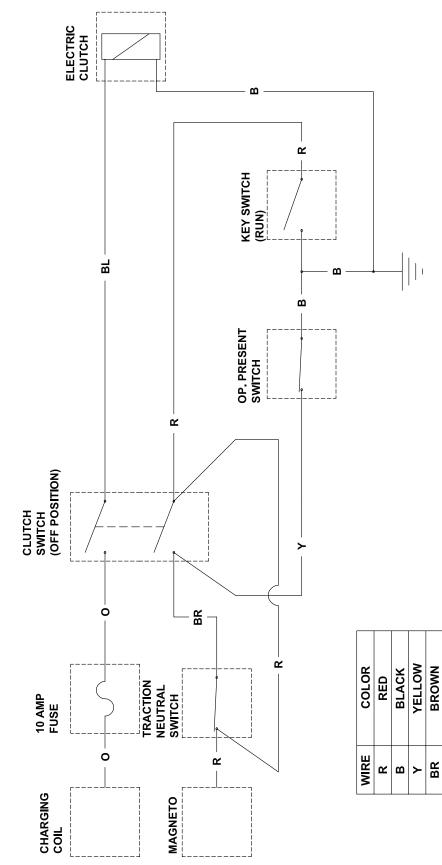


ORANGE

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BLUE

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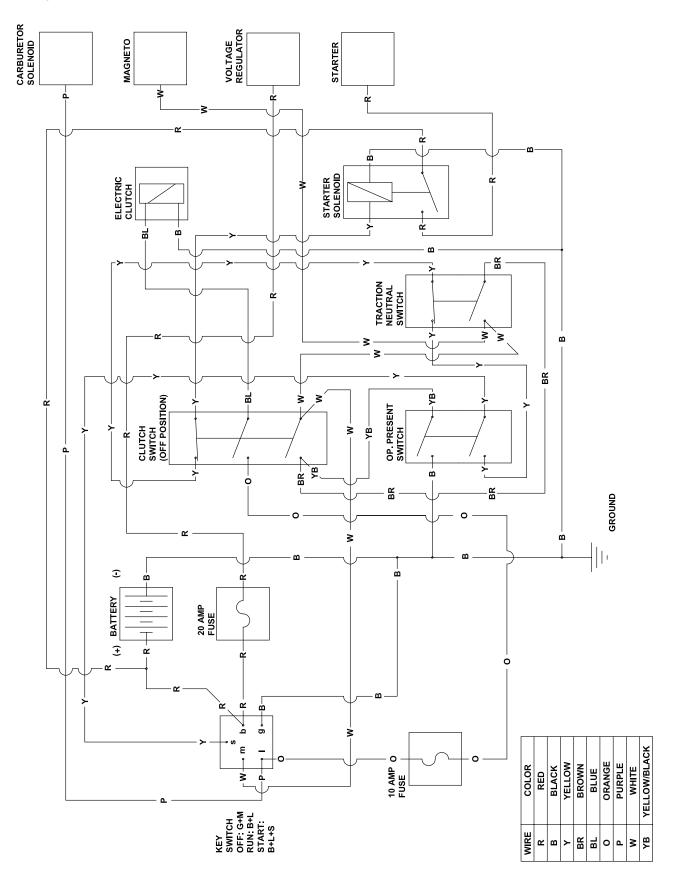




WIRING SCHEMATIC-ELECTRIC START

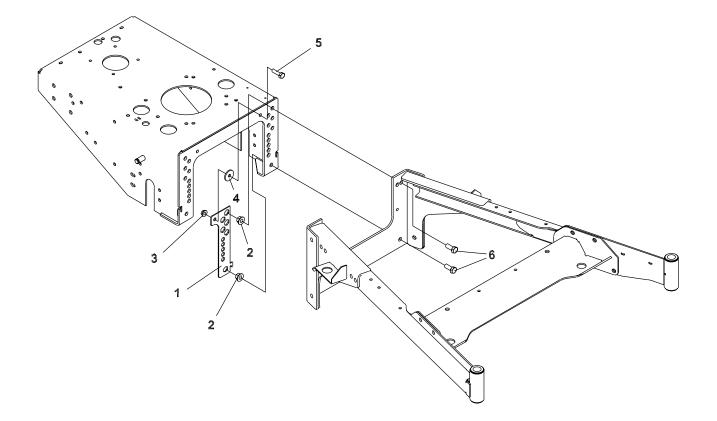
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REF. 4115550



CUTTERDECK MOUNTING





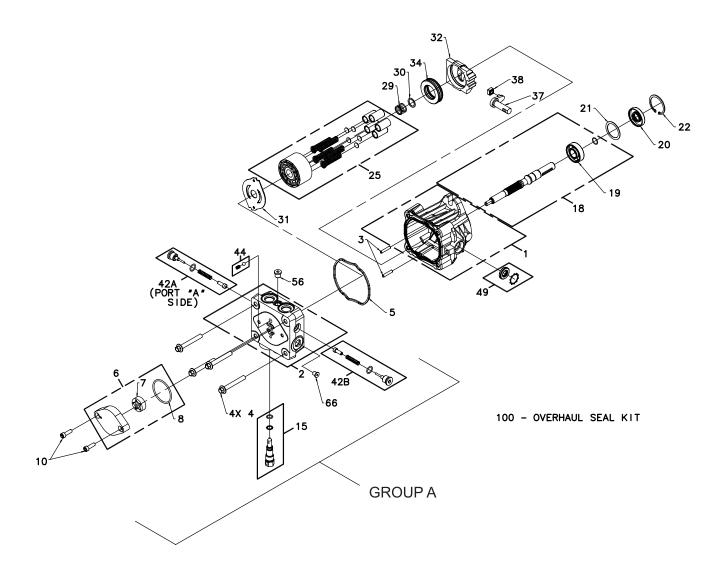
CUTTERDECK MOUNTING



FIGURE 15 2721693-10 ITEM PART NO. DESCRIPTION QTY ITEM PART NO. DESCRIPTION QTY PLATE-NUT 15-1 2721991.7 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.406X1.44X9GA 2 15-5 A1104057 BOLT-M10-1.50 X 25 2 15-6 64263-018 BLT-FLG HD M12-1.75 X 30 4

HYROGEAR PUMP









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	2721615-08	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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