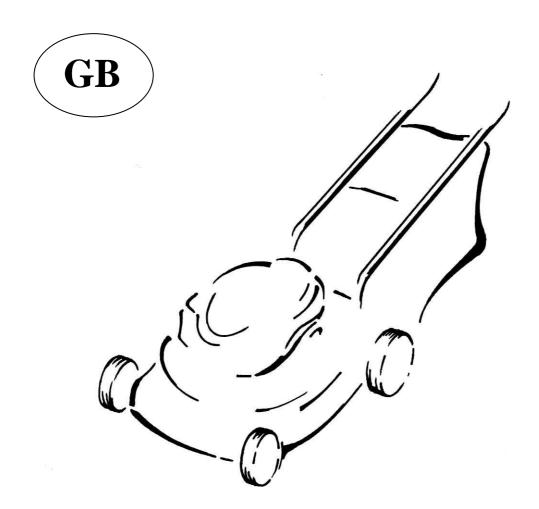
Operator's Manual

ORIGINAL INSTRUCTIONS



PETROL LAWN MOWER



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SECTION 1: IMPORTANT SAFE OPERATION PRACTICES



WARNING: THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH,

IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR LAWN MOWER. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL, HEED ITS WARNING.



DANGER: Your lawn mower was built to be operated according to the rules for safe operation

in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This lawn mower is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

DEFINITIONS OF SYMBOLS



Read the operating and service instruction manual carefully. Be thoroughly familiar with the controls and the proper use of the lawn mower.



Never mow while people, especially children or pets, are nearby.



Moving blades. Do not put hands or feet near the blades.



When cleaning repairing or inspecting, make certain the blade and all mowing parts have stopped. Disconnect the spark plug cap and keep the cap away from the plug to prevent accidental starting.



Wear eye and hearing protection when operating the product.



STARTING



This engine is shipped without oil. See operating instructions for correct oil fill capacity. DO NOT OVERFILL: see engine manual for more detail.

GENERAL OPERATION

- Read this owner's guide carefully in its entirety before attempting to assemble this machine. Read, understand, and follow all instructions on the machine and in the manuals before operation. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise
 extreme caution at all times. Your lawn mower has been designed to perform one job: to mow grass.
 Do not use it for any other purpose.
- Never allow children under 14 years old to operate a power mower. Children 14 years old and over should only operate mower under close parental supervision. Only responsible individuals who are familiar with these rules of safe operation should be allowed to use your mower.
- Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower to help prevent blade contact or thrown object injury. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.
- Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones, toys and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area. Plan your mowing pattern to avoid discharge of material toward roads, sidewalks, bystanders and the likes. To help avoid a thrown objects injury, keep children, bystanders and helpers at least 75 feet away from the mower while it is in operation.
- Always wear safety glasses or safety goggles during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction.
- Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Shirts and pants that cover the arms and legs and steel-toed shoes are recommended. Do not wear loose fitting clothes or jewelry. They can be caught in moving parts. Never operate a lawn mower in bare feet, sandals, slippery or light weight (e.g. canvas) shoes.
- Do not put hands or feet near or under rotating parts. Keep clear of discharge opening at all times as the rotating blade can cause injury.
- Many injuries occur as a result of the mower being pulled over the foot during a fall. Do not hang on to the mower if you are falling; release the handle immediately.
- Never pull the mower toward you while you are walking. If you must back the mower away from a wall
 or obstruction first look down and behind, and then follow these steps:
 - A. Step back from the mower to fully extend your arms.
 - B. Be sure you are well balanced with sure footing.
 - C. Pull the mower back slowly, no more than half way toward you.
 - D. Repeat these steps as needed.
- Do not operate the mower while under the influence of alcohol or drugs.
- Do not engage the self-propelled mechanism on units so equipped while starting engine.
- The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes
 the safety device inoperative and may result in personal injury through contact with the rotating blade.
 The blade control handle must operate easily in both directions and automatically return to the
 disengaged position when released.
- Never operate the mower in wet grass. Always be sure of your footing. A slip and fall can cause

serious personal injury. Keep a firm hold on the handle and walk, never run. If you feel you are losing your footing, RELEASE THE BLADE CONTROL HANDLE IMMEDIATLEY and the blade will stop rotating within three seconds.

- Mow only in daylight or good artificial light.
- Stop the blade when crossing gravel drives, walks or roads.
- If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
- Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
- Never operate mower without proper guards, grass catcher, plates or other safety protective devices in place.
- Muffler and engine become hot and can cause a burn. Do not touch.
- Only use accessories approved for this machine by the manufacturer. Read, understand and follow all instructions provided with the approved accessory.
- If situations occur which are not covered in this manual, use care and good judgment. Contact your dealer for assistance.

SLOPE OPERATION

For your safety, use the slope gauge to measure slopes before operating this lawn mower on a sloped or hilly area. If the slope is greater than 15 degrees as shown on the slope gauge, do not operate this lawn mower on that area or serious injury could result.

DO:

- Mow across the face of slopes, never up and down. Exercise extreme caution when changing direction on slopes.
- Watch for holes, ruts, hidden objects, or bumps. Tall grass can hide obstacles.
- Always be sure of your footing. A slip and fall can cause serious personal injury. If you feel you are losing your balance release the blade control handle immediately and the blade will stop in less than 3 seconds.

DO NOT:

- Do not mow near drop-offs, ditches or embankments. The operator could lose footing or balance.
- Do not mow slopes greater than 15 degrees as shown on the slope gauge.
- Do not mow on wet grass. Reduced footing could cause slipping.

CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the mower and the mowing activity. Never assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of a responsible adult other than the operator.
- Be alert and turn mower off if a child enters the area.
- Before and while moving backwards, look behind and down for small children or other objects.
- Never allow children under age 14 to operate the mower. Children 14 years of age and over should read and understand the operation instructions and safety rules in this manual.
- Use extreme care when approaching blind corners, shrubs, trees, or other objects that may obscure your vision of a child or hazard.

SERVICE

- Use extreme care in handling gasoline and other fuels. They are extremely flammable and the vapors are explosive.
- Use only an approved gasoline container.
- Never remove gas cap or add fuel while the engine is running. Allow engine to cool at least two minutes before refueling.
- Replace gasoline cap securely and wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
- Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- Never refuel machine indoors because flammable vapors will accumulate in the area.
- Never store the machine or fuel container inside where there is an open flame or spark such as a gas water heater, space heater, or furnace.
- Never run an engine inside a closed area.
- To reduce fire hazard, keep mower free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage. Allow mower to cool at least 5 minutes before storing.
- Before cleaning, repairing, or inspecting, make certain the blade and all moving parts have stopped.
 Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
- Check the blade and engine mounting bolts at frequent intervals for proper tightness. Also, visually
 inspect blade for damage (e.g., bent, cracked or worn). Replace with blade which meets original
 equipment specifications listed in this manual.
- Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- Never tamper with safety devices. Check their proper operation regularly.
- After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly
 inspect the mower for any damage. Repair the damage before starting and operating the mower.
- Never attempt to make a wheel or cutting height adjustment while the engine is running.
- Grass catcher components are subject to wear, damage and deterioration, which could expose moving
 parts or allow objects to be thrown. For safety protection, frequently check components and replace with
 manufacture's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Do not change the engine governor setting or overspeed the engine. Excessive engine speeds are dangerous.
- Do not adjust the throttle with the engine running

SECTION 2: UNPACKING INSTRUCTIONS

REMOVE LAWN MOWER FROM CARTON (See Fig. 1)

- Remove staples, break glue on top flaps, or cut tape at carton end and peel along top flap to open carton.
- Remove loose parts if included with lawn mower (i.e., owner's manual, etc.), and save it appropriately.
- Cut along corner and lay carton down flat.
- Remove packing material.

Roll or slide lawn mower out of carton. And check carton thoroughly for loose parts.

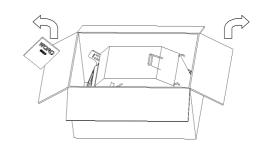


Fig.1

DISCONNECT SPARK PLUG WIRE (See Fig. 2)

Before setting up your lawn mower, disconnect the spark plug wire from the spark plug, and ground it against the engine by attaching rubber boot to a bolt or metal clip to the grounding post on the engine.

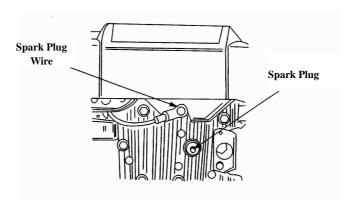


Fig. 2

SECTION 3: SET-UP INSTRUCTIONS

ITEMS REQUIRED FOR ASSEMBLY

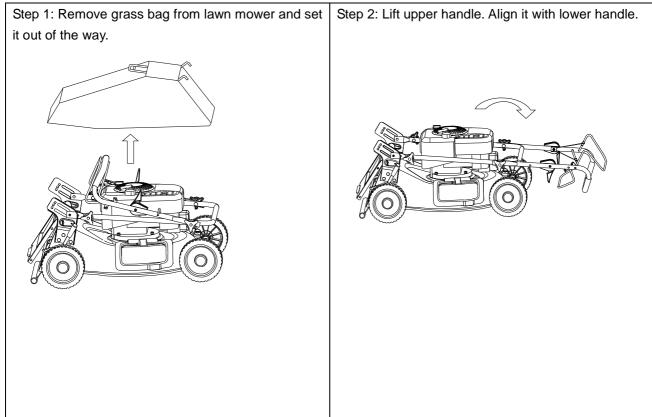
- Pair of Pliers (Not necessary, but helpful)
- Motor Oil
- Fresh Gasoline

IMPORTANT: This lawn mower is shipped WITHOUT GASOLINE or OIL in the engine. Be certain to service engine with gasoline and oil as instructed in the separate engine manual before operating your mower.

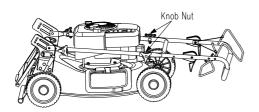
NOTE: Reference to right or left hand side of the mower is observed from the operating position.

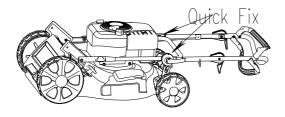
SET UP YOUR LAWN MOWER

Follow steps 1 through 8 to set up your lawn mower.

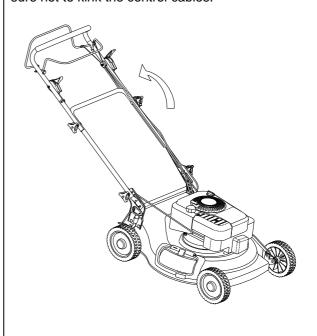


Step 3: According to model: tighten two knob nuts or fold the fix handle grip to the upper handle.



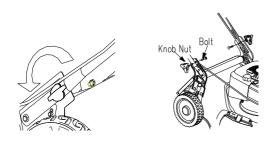


Step 4: Raise complete handlebar & console. Make sure not to kink the control cables.

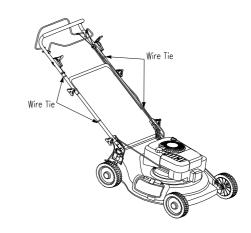


Step 5: Pinch lower handle against mounting bracket with pliers.

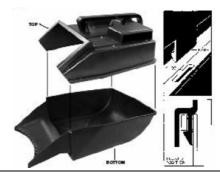
Step 6: According to model: connect lower handle, right bracket and left bracket with two knob nuts and two square neck bolts or turn switches 90°.



Step 7: Attach control cables to handle with four wire ties. Attach the recoil starter to rope guide on the upper handle.



Step 8: Plastic grass catcher assembly. Refer to the "Set Up Instructions" attached to the grass catcher lower half.



SECTION 4: CONTROLS

I.Hand push

FLYWHEEL BRAKE LEVER (See Fig. 3)

The flywheel brake lever is located on the upper handle of the mower. The flywheel brake lever must be depressed in order to start and operate the lawn mower. Release flywheel brake lever to stop the engine and blade.

WARNING: The flywheel brake lever is a safety device. Never attempt to bypass its operations. The blade will be rotating whenever the engine is running.

RECOIL STARTER (See Fig. 3)

The recoil starter handle is attached to the upper handle. See Fig. 5. Stand behind the lawn mower in the operating position to start the lawn mower.

THROTTLE CONTROL (See Fig. 4)

The throttle switch is located on the handle. It is used to regulate the engine speed.



The throttle control lever is forward to increase speed



The throttle control lever is rearward to decrease speed



WARNING: The throttle control cannot be used to stop the engine. Do not adjust the throttle control with the engine running.

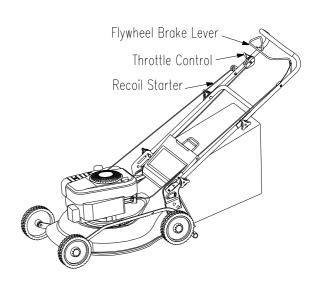
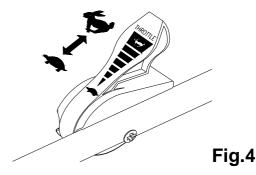


Fig. 3



CUTTING HEIGHT ADUJSTMENT LEVER

NOTE: Your mower is shipped with the cutting height in the lowest position. Adjust the cutting height as follows. The cutting height adjustment lever is located above the right rear wheel. To adjust the cutting height, pull the cutting height adjustment lever out and away from the mower and then move it forward or backward to another slot. (See fig.5)

Some mowers are equipped with height adjustment button, which located above the right wheels. To adjust the cutting height, push the button downward to the slot you select. See fig 6 and fig 7.

NOTE: For rough or uneven lawns, move the cutting height adjustment lever to a higher position. This will help stop scalping.

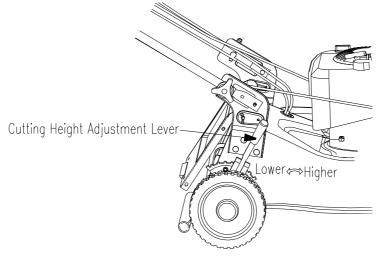


Fig.5



Fig.6 Fig.7

II.Self-propelled

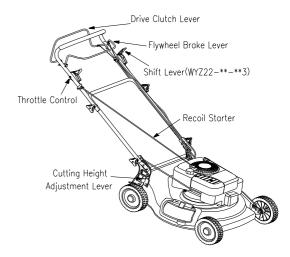
FLYWHEEL BRAKE LEVER (See Fig. 8)

The flywheel brake lever is located on the upper handle of the mower. The flywheel brake lever must be depressed in order to start and operate the lawn mower. Release flywheel brake lever to stop the engine and blade.

WARNING: The flywheel brake lever is a safety device. Never attempt to bypass its operations. The blade will be rotating whenever the engine is running.

DRIVE CLUTCH LEVER (See Fig. 8)

Squeeze the drive clutch lever to engage the drive system. Release the drive clutch lever to disengage the drive system. Release the drive clutch lever to slow down when approaching obstacle, making a turn or stopping.



RECOIL STARTER

The recoil starter handle is attached to the upper handle. See Fig. 8. Stand behind the lawn mower in the operating position to start the lawn mower.

Fig.8

THROTTLE CONTROL (See Fig. 9)

The throttle switch is located on the handle. It is used to regulate the engine speed.



The throttle control lever is forward to increase speed



The throttle control lever is rearward to decrease speed



WARNING: The throttle control cannot be used to stop the engine. Do not adjust the throttle control with the engine running.



Fig. 9

Shift Lever (only for model WYZXX-**-**3)

The shift lever is located on the handle. Use the shift lever to adjust the forward speed of the mower. Do not use the throttle control lever, the throttle control lever must be kept in the FAST position for the best mowing performance.

When changing speed selection, release the drive clutch lever.

Move shift lever to select desired speed according to mowing conditions and terrain: (See Fig. 10)



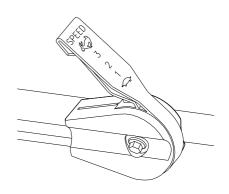


Fig. 10

CUTTING HEIGHT ADUJSTMENT LEVER (See Fig.11)

NOTE: Your mower is shipped with the cutting height in the lowest position. Adjust the cutting height as follows.

The cutting height adjustment lever is located above the right rear wheel. To adjust the cutting height, pull the cutting height adjustment lever out and away from the mower and then move it forward or backward to another slot. See fig.11.

Some mowers are equipped with height adjustment button, which located above the right wheels, To adjust the cutting height, push the button downward to the slot you select. See fig 12 and fig 13.

NOTE: For rough or uneven lawns, move the cutting height adjustment lever to a higher position. This will help stop scalping.

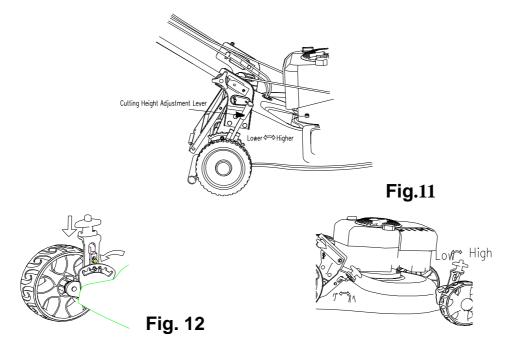


Fig 13

SECTION 5: OPERATION



WARNING: Keep hands and feet away from the chute area on the cutting deck. See Fig.1.

The operation of any lawn mower can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields.

NOTE: For best results raise the cutting position until it is determined which height is best for your lawn. See CUTTING HEIGHT ADJUSTMENT LEVER in the CONTROLS section.

GASOLINE AND OIL FILL-UP

Service the engine with gasoline and oil as instructed in the separate engine manual. Read all instructions carefully.



WARNING: Never fill fuel tank indoors with engine running or until the engine has been allowed to cool for at least two minutes after running.

TO START ENGINE AND ENGAGE BLADE

- Attach spark plug wire to spark plug. Make certain the metal cap on the end of the spark plug wire is fastened securely over the metal tip on the spark plug.
- Move the throttle control on the engine to the fast (rabbit) position.
- Prime engine as instructed in the separate engine manual.
- Stand behind the lawn mower, squeeze the blade control handle and hold it against the upper handle.

NOTE: If any problems are encountered, refer to the TROUBLE SHOOTING GUIDE Section of this manual.

TO STOP ENGINE AND BLADE

Release the flywheel brake lever to stop the engine and the blade.



WARNING: The blade continues to rotate for a few seconds after the engine is shut off.

USING YOUR ROTARY MOWER

- Be sure that the lawn is clear of stones, sticks, wire, or other objects that could damage lawn mower or engine. Such objects could be accidently thrown by the mower in any direction and cause serious personal injury to the operator and others.
- For best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing
 proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass or wet
 grass may require a narrower cut.
- For a healthy lawn, never cut off more than one-third of the total length of the grass. Your lawn should be cut in the fall as long as there is growth.

This mower is at full throttle for best cut, mowing or mulching.



WARNING: If mower strikes a foreign object, stop the engine. Remove wire from the spark

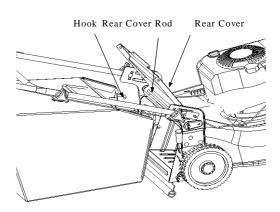
plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower. Extensive vibration of the mower during operation is an indication of damage. The lawn mower should be promptly inspected and repaired.

BAGGING (See Fig. 14)

This mower can bag grass clippings. The following steps should be taken to prepare your lawn mower for bagging.

Installing the grass bag:

- Raise rear cover.
- Slide grass bag on rear cover rod.
- Release rear cover to secure grass bag in place.



Installing the grass catcher:

- Raise the rear cover
- Grasp the grass catcher by the top handle and position the grass catcher against the rear of the mower
- Lower the rear cover

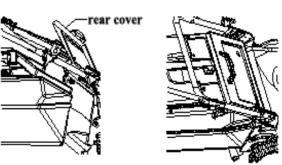


Fig. 14

EMPTYING YOUR GRASS BAG/CATCHER (See Fig. 15)

- Raise the rear cover of the mower to release the grass bag/catcher.
- Lift the grass bag/catcher clear of the mower and lower the rear cover.
- Tilt the grass bag/catcher with the opening downwards.
- Grip the handle of the grass bag/catcher and shake the clippings out. Refer to Fig. 15.

When replacing your grass bag/catcher, be sure the bag/catcher is on the correct position.

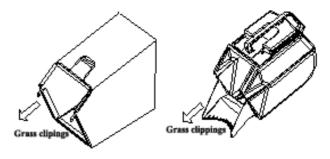


Fig. 15

SECTION 6: ADJUSTMENTS



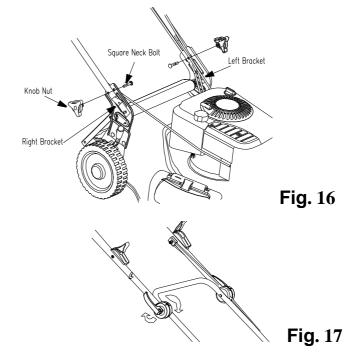
WARNING: Do not at any time make adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

HANDLE HEIGHT ADJUSTMENT

Your mower provided three kinds of the handle positions for use is shipped with the handle in the middle height position. To adjust the height proceed as follows:

- Remove the starter rope from the rope guide.
- Remove the knob nuts and square neck bolts.
- Move lower handle up and down around the rear cover rod to adjust the height. See Fig. 16.
- Attach lower handle with the knob nuts and square neck bolts.
- Attach the recoil starter as instructed in the set-up instructions.

(The handlebar of the quick fix mowers can only be adjusted by the external & internal gear in the quick fix handle grip, See Fig 17)



THROTTLE ADJUSTMENT (See FIG 18)

Throttle need adjustment if replaced or changed:

Loose nut(FIG18),and take off clip;

Push throttle forward at minimum position and Shift back one lever, then hold position of the cable.

Push throttle backward at maximum position, And tighten nut with clip.

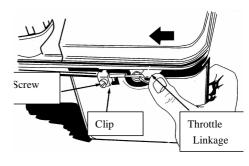


Fig 18

CABLE UNIT ADJUSTMENT

Loose nut, then rotate the tube to adjust the tightness of the cable unit. See Fig 19.

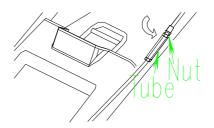


FIG 19

SECTION 7: MAINTENANCE



WARNING: Be sure to disconnect and ground the spark plug wire before performing any repairs or maintenance.

NOTE: When tipping the lawn mower, empty the fuel tank. Never tip the mower more than 90 degrees in any directions and do not leave the mower tipped for any length of time. Oil can drain into the upper part of the engine causing a starting problem.

ENGINE

Refer to the separate engine manual for all engine maintenance instructions.

- Maintain engine oil as instructed in the separate engine manual packed with your lawn mower. Read and follow instructions carefully.
- Service air cleaner every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicate that the air cleaner should be serviced.
 To service the air cleaner, refer to the separate engine manual packed with your lawn mower.
- The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; refer to engine manual for correct plug type and gap specifications.
- Clean the engine regularly with a cloth or brush. Keep the cooling system (blower housing area) clean to permit proper air circulation which is essential to engine performance and life. Be certain to remove all grass, dirt and combustible debris from muffler area.

MOVER DECK

The underside of the mower deck should be cleaned after each use to prevent a build-up of grass clippings, leaves, dirt or other matter. If allowed to accumulate, it will cause rust and corrosion, and may prevent from proper mulching, discharge or bagging.

- Disconnect and ground spark plug wire.
- Drain the fuel from the lawn mower, or place a piece of plastic under the gas cap.
- Tip the mower so that it rests on the housing. Keep the side with the air cleaner facing up. Hold the mower securely.
- Scrape and clean the underside of the mower deck with a suitable tool.

BLADE REMOVAL, REPLACEMENT AND SHARPENING (See Fig. 20 & 21)

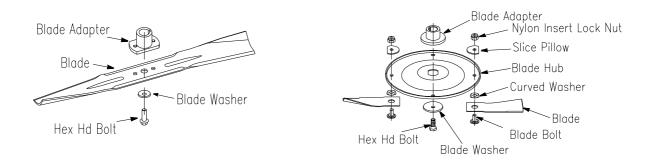


Fig. 20 Fig. 21

- When removing the blade for sharpening or replacement, protect your hands with a pair of heavy gloves or use a heavy rag to hold the blade.
- Remove the Hex Hd bolt and the blade washer that hold the blade.
- Remove the blade and the blade adapter from the engine crankshaft.



WARNING: Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary.

When sharpening the blade, follow the original angle of grind as a guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds. It may cause damage to the mower, and could break causing personal injury.

The blade can be tested by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly. It is recommended that the blade always be removed from the adapter when testing for balance.

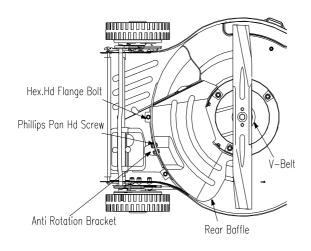
- Before reinstalling the blade and the blade adapter to the lawn mower, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil.
- Be sure to install the blade with the side of the blade marked with part number facing the ground when the mower is in the operating position.
- Slide the blade adapter on to the engine crankshaft.
- Place the blade on the blade adapter. Be certain the blade is aligned and seated on the blade adapter flanges.
- Place blade washer on blade.
- Replace Hex Hd bolt.
- Tighten Hex Hd bolt to torque: 450 in. lbs. min., 600 in. lbs. max.

NOTE: To ensure safe operation of your mower, the blade bolt must be checked periodically for correct torque.

DRIVE BELT REMOVAL AND REPLACEMENT (See Fig. 22)

- Disconnect the spark plug wire and ground it against the engine.
- Drain the fuel tank or place a piece of plastic beneath the gas cap.

- To remove the rear baffle, loosen five Hex.Hd Flange Bolts.
- To remove anti rotation bracket, loosen two phillips pan Hd screws.
- Remove old V-belt and replace with a new V-belt, route V-belt around pulleys. Reinstall all parts in proper order.



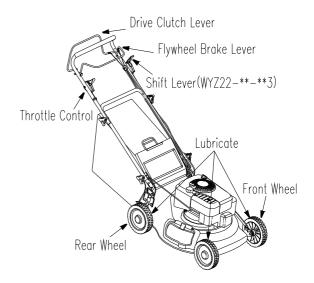


Fig. 22 Fig. 23

IMPORTANT: When replace the V-belt, do not disassemble the blade and blade adapter.

SECTION 8: LUBRICATION (See Fig. 23)



WARNING: Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of service work on the lawn mower.

Control Handle: Lubricate the pivot points on the control handle at least once a season `with light oil. The flywheel brake lever and the drive clutch lever must operate freely in both directions.

Wheels: Lubricate the wheels and bearings at least once a season with light oil (or engine oil). Also, if the wheels are removed for any reason, lubricate the surface of the rear axle or front shaft and the inner surface of the wheel with light oil.

Engine: Follow engine manual for lubrication instructions.

SECTION 9: OFF-SEASON STORAGE

The following steps should be taken to prepare your lawn mower for storage.

- Clean and lubricate lawn mower thoroughly as described in the lubrication instructions.
- Refer to engine manual for correct engine storage instructions.
- Coat mower's blade with chassis grease to prevent rusting.
- Store mower in a dry, clean area. Do not store next to corrosive materials, such as fertilizer.

NOTE: When storing any type of power equipment in a poorly ventilated or metal storage shed, care should be taken to rust-proof the equipment. Using a light oil silicone, coat the equipment, especially cables and all moving parts.

SECTION 10: TROUBLE SHOOTING GUIDE

Trouble	Cause	Remedy	
Engine fails to	Blade control handle disengaged.	Engage blade control handle.	
start	Spark plug wire disconnected.	Connect wire to spark plug.	
Throttle control lever not in correct starting position.		Move throttle lever to FAST or START position.	
	Fuel tank empty, or stale fuel. Fill tank with clean, fresh gasoline.		
	Blocked fuel line.	Clean fuel line.	
	Faulty spark plug.	Clean, adjust gap or replace.	
	Engine flooded.	Crank engine with throttle in FAST position.	
Engine runs	Lawn mower running in START	Move throttle lever to FAST position.	
erratic	position.		
	Spark plug wire loose.	Connect and tighten spark plug wire.	
	Blocked fuel line or stale fuel.	Clean fuel line, fill tank with clean, fresh gasoline.	
	Vent in gas cap plugged.	Clean vent.	
	Water or dirt in fuel system.	Drain fuel tank. Refill with fresh fuel.	
	Dirty air cleaner.	Clean air cleaner.	
	Carburetor out of adjustment.	Adjust carburetor.	
Engine overheats	Engine oil level low.	Fill crankcase with proper oil.	
	Air flow restricted.	Remove blower housing and clean.	
	Carburetor not adjusted properly.	Adjust carburetor.	
Occasional skip	Spark plug gap too close.	Adjust gap to .030".	
(hesitates) at			
high speed			
Idles poorly	Spark plug fouled, faulty or gap too	Reset gap to.030" or replace spark plug.	
	wide.		
	Carburetor improperly adjusted.	Adjust carburetor.	
	Dirty air cleaner.	Clean air cleaner.	
Excessive	Cutting blade loose or unbalanced.	Tighten blade and adapter. Balance blade.	
vibration	Bent cutting blade.	Replace blade.	
Mower will not	Engine speed too low.	Set throttle between 3/4 and full throttle.	
mulch grass	Wet grass.	Do not mow when grass is wet; wait until later to	
		cut.	
	Excessively high grass.	Mow once at a high cutting height, then mow again	
		at desired height or make a narrower cutting swath	
		(1/2 width).	
	Dull blade.	Sharpen or replace blade.	
Uneven cut	Wheels not positioned correctly.	Place all four wheels in same height position.	
	Dull blade.	Sharpen or replace blade.	

NOTE: For repairs beyond the adjustments listed above, contact your nearest authorized service dealer.

SECTION 11: TECHNICAL CHARACTERISTICS

			WORLD18-BS35-A	WORLD18H-BS40-A	WYZ18-BS40-A	WYZ18H-BS40-A	WYZ20-BS60-B	WYZ20H-BS60-B	WYZ22-BS60-B	WYZ18-H135-A	WYZ20-H160-B
MODEL	WYS18-WD65-A	WYZ18-WD65-A	TAURUS 46	TAURUS 46W	TAURUS 46T	TAURUS 46TW	TAURUS 51T	TAURUS 51TW	TAURUS 56T	TAURUS 46TH	TAURUS 51TH
TYPE	Hand push	Self	Hand push	Hand push	Self	Self	Self propelled	Self	3 speed Self propelled	Self	Self
ENGINE	Word WD1P65 139cc	Word WD 1P65 139cc	B&S 450Series 148cc	B&S 500Series 158cc	B&S 500Series 158cc	B&S 500Series 158cc	B&S 675Series 190cc	B&S 675Series 190cc	B&S 675Series 190cc	HONDA GCV 135 135cc	HONDA GCV 160 160cc
FORWARD SPEED		3.6 km/h			3.6 km/h		3.8 кт/ћ		2.8 – 4.2 – 5.2 km/h	3.4 km/h	3.8 km/h
CUTTING WIDTH	460 mm	460 mm	460 mm	460 mm	460 mm	460 mm	510 mm	510 mm	558 mm	460 mm	510 mm
CUTTING HEIGHT	30 ÷ 75 mm (5 Levels)	30 ÷ 75 mm (5 Levels)	15 ÷ 80 mm (13 Levels)	30 ÷ 75 mm (5 Levels)	25 ÷ 80 mm (13 Levels)	30 ÷ 90 mm (6 Levels)	15 ÷ 75 nun (14 Levels)	30 ÷ 90 mm (6 Levels)	15 ÷ 75 mm (14 Levels)	30 ÷ 90 mm (6 Levels)	30 ÷ 90 mm (6 Levels)
NET WEIGHT	30 kg	31 kg	29 kg	30 kg	31 kg	33 kg	40 kg	42 kg	52 kg	30 kg	39 kg
GRASS CATCHER	1 09	1 09	1 09	1 59	109	1 59	1 59	101	157	1 09	101
SOUND PRESSURE LEVEL (according to 2000/14/EC)	71.3 dB (A)	71.3 dB (A)	72 dB (A)	72.6 dB (A)	72.6 dB (A)	72.6 dB (A)	71.9 dB (A)	71.9 dB (A)	72 dB (A)	71.5 dB (A)	72.2 dB (A)
SOUND POWER LEVEL (according to 2000/14/EC)	91.3 dB (A)	91.3 dB (A)	92 dB (A)	92.6 dB (A)	92.6 dB(A)	92.6 dB (A)	91.9 dB (A)	91.9 dB (A)	92 dB (A)	91.5 dB (A)	92.2 dB (A)
UNCERTAINTY K	1.84 dB	1.84 dB	1.83 dB	2.25 dB	2.25 dB	2.25 dB	1.98 dB	1.98 dB	1.96 dB	1.93 dB	2.11 dB
VIBRATION LEVEL		ah,w (according to	to EN 1033, EN 1032):		5.81 m/s ² ((Uncertainty= 10%)	10%)				

SECTION 12: EC DECLARATION OF CONFORMITY

(GB) EC DECLARATION OF CONFORMITY FOR MACHINERY ACCORDING TO 2006/42 - 2004/108 - 2000/14 /EC (D) HERSTELLERERKLARUNG FUR MASCHINE GEMAB 2006/42 – 2004/108 – 2000/14 /EG (F) DECLARATION 'CE' DE CONFORMITE POUR LES MACHINES SUIVANT LA DIRECTIVE 2006/42 – 2004/108 – 2000/14 /EC

(E) DECLARACION DE CONFORMIDAD PARA MAQUINARIA DE ACUERDO CON LA 2006/42 - 2004/108 - 2000/14 /EC

(I) DICHIARAZIONE DI CONFORMITA' EUROPEA PER LE MACCHINE SECONDO LA DIRETTIVA 2006/42 - 2004/108 - 2000/14 /EC (NL) EG GELIJKVORMIGHEIDSVERKLARING VOOR MACHINES VOLGENS 2006/42 - 2004/108 - 2000/14 /EC

(DK) EC DEKLARATION I OVERENSSTEMMELSE MED MASKINDIREKTIVET 2006/42 - 2004/108 - 2000/14 /EC

 $(P) \ DECLARAÇAO \ CE \ DE \ CONFORMIDADE \ PARA \ DE \ MAQUINAS, DE \ ACORDO \ COM \ A \ DIRECTIVA \ 2006/42 - 2004/108 - 2000/14 / EC \ ACORDO \ COM \ A \ DIRECTIVA \ 2006/42 - 2004/108 - 2000/14 / EC \ ACORDO \ COM \ A \ DIRECTIVA \ 2006/42 - 2004/108 - 2000/14 / EC \ ACORDO \ COM \ A \ DIRECTIVA \ 2006/42 - 2004/108 - 2000/14 / EC \ ACORDO \ COM \ A \ DIRECTIVA \ 2006/42 - 2004/108 - 2000/14 / EC \ ACORDO \ COM \ A \ DIRECTIVA \ 2006/42 - 2004/108 - 2000/14 / EC \ ACORDO \ COM \ A \ DIRECTIVA \ 2006/42 - 2004/108 - 2000/14 / EC \ ACORDO \ COM \ A \ DIRECTIVA \ 2006/42 - 2004/108 - 2000/14 / EC \ ACORDO \ COM \ A \ DIRECTIVA \ 2006/42 - 2004/108 - 2000/14 / EC \ ACORDO \ COM \ A \ DIRECTIVA \ 2006/42 - 2004/108 - 2000/14 / EC \ ACORDO \ COM \ A \ DIRECTIVA \ 2006/42 - 2004/108 - 2000/14 / EC \ ACORDO \ COM \ A \ DIRECTIVA \ 2006/42 - 2004/108 - 2000/14 / EC \ ACORDO \ COM \ AD \ ACORDO \ COM \ AD \ ACORDO \ COM \ AD \ ACORDO \ AD \ ACO$

(FI) EY ILMOITUS KONEEN YHDENMUKIASUUDESTA 2006/42 – 2004/108 – 2000/14 /ETY (SE) FORSAKRAN OM OVERENSSTAMMELSE ENLIGT 2006/42 – 2004/108 – 2000/14 /EC

(NO) BEKREFTENDE EU ERKLÆRING FOR MASKINERI I HENHOLD TIL 2006/42 – 2004/108 – 2000/14 /EØF

(GR) $EK/\Delta H \Lambda \Omega \Sigma H \Sigma YMOP\Phi \Omega \Sigma H \Sigma MHXANHMATO \Sigma \Sigma YM\Phi \Omega NA ME THN ME OAHI IA 2006/42 – 2004/108 – 2000/14 /EOK$

(PL) EUROPEJSKA DEKLARACJA ZGODNOSCI MASZYN ZGODNIE Z DYREKTYWA 2006/42 – 2004/108 – 2000/14 /EC

MANUFACTURER-HERSTELLER-FABRICANT- $TILLVERKARE - FABRIKANT - KATA\Sigma KEYA\Sigma TH\Sigma - PRODUCENT$:

BLUE BIRD INDUSTRIES – FABBRICA MOTORI s.r.l. Via Due Camini, 19 - 36010 ZANE' (VI) - ITALY

DESCRIPTION OF THE MACHINERY – BESCHREIBUNG DER MASCHINE – DESCRIPTION DE LA MACHINE – DESCRIPCION DE LA MAQUINARIA – DESCRIZIONE DELLA MACCHINA – BESCHRIJVING VAN DE MACHINE – BESKRIVELSE AF MASKINEN – DESCRIÇAO DA MAQUINA – KONEEN $NIMITYS-MATERIELSLAG-BESKRIVELSE~AV~MASKINERIET- \\ \Pi EPI\Gamma PA \Phi H~TOY~MHXANHMATO \Sigma-OPIS~MASZYNY:$

1) MAKE - FABRIKAT - MARQUE - MARCA - MARCA - MERK - MÆRKE - MARCA - MERKKI - FABRIKAT - FABRIKANT - MAPKA - MARKA:

BLUE BIRD INDUSTRIES

 $2) \ TYPE \ / \ TYPE$

TAURUS 46 * TAURUS 46W * TAURUS 46T * TAURUS 46TW * TAURUS 46TH * TAURUS 51T * TAURUS 51TW * TAURUS 56T * TAURUS 51TH * WORLD18-BS35-A * WORLD18H-BS40-A * WYZ18-BS40-A * WYZ18H-BS40-A * WYZ20-BS60-B * WYZ20H-BS60-B *WYZ22-BS60-B * WYS18-WD65-A * WYZ18-WD65-A * WYZ18-H135-A * WYZ20-H160-B

(2000/14/EC) – Livelli di potenza sonora come da allegato VI – Sound Power Levels performed per annex VI				
TIPO TYPE	Livello di potenza sonora misurato Measured Sound Power Level	Livello di potenza sonora garantito Guaranteed Sound Power Level (L_{WA})		
TAURUS 46 WORLD18-BS35-A	92 dB (A)	96 dB (A)		
TAURUS 46W - TAURUS 46T - TAURUS 46TW WORLD18H-BS40-A - WYZ18-BS40-A WYZ18H-BS40-A	92.6 dB (A)	96 dB (A)		
WYS18-WD65-A - WYZ18-WD65-A	91.3 dB (A)	96 dB (A)		
TAURUS 51T - TAURUS 51TW WYZ20-BS60-B - WYZ20H-BS60-B	91.9 dB (A)	98 dB (A)		
TAURUS 56T - WYZ22-BS60-B	92 dB (A)	98 dB (A)		
WYZ18-H135-A TAURUS 46TH	91.5 dB (A)	96 dB (A)		
WYZ20-H160-B TAURUS 51TH	92.2 dB (A)	98 dB (A)		

3) SERIAL NUMBER / SERIENNUMMBER / NUMERO DE SERIE / NUMERO DE SERIE / NUMERO DI SERIE / SERIENUMMER / SERIENUMMER / NUMERO DE SERIE / SARJANUMERO / SERIENUMMER / SERIE NUMMER / APIθΜΟΣ ∏AAIΣΙΟΥ / NUMER SERYJNY:

 $00001 \div 99999$



BLUE BIRD INDUSTRIES - FABBRICA MOTORI s.r.l.

ZANE' (VI) – ITALIA 29-11-2010

The chairman – Der vorsitzender – Le président – El presidente – Il presidente –

De voorzitter - Daglig leder - O presidente - Toimitusjohtaja - Verkställande

direktör – Administrerende direktør – O $\prod POE\Delta PO\Sigma$ - Prezes

ALESSIO VITELLA PLENIA

(GB) Technical documentation maintained by (F) Documentation technique maintenue par

(I) Documentazione tecnica conservata da

(DK) Teknisk dokumentation tillhandhallen av

(FI) Teknisten asiakirjojen yiläpitäjä

(NO) Teknisk dokumentasijon vedlikeholdt av

(PL) Dokumentacja techniczna utrzymywana przez

(D) Technische Dokumentation aktualisiert durch

(E) Documentacion tecnica mantenida por

(NL) Technische documentatie onderhouden door (P) Documentação tecnica mantida por

(SE) Teknisk dokumentation tillhandhallen av

(GR) τεγνικό φάκελο που τηρείται από

BLUE BIRD INDUSTRIES - FABBRICA MOTORI s.r.l.

ZANE' (VI) - ITALIA

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