

LE389



1.1997

Spare Parts

Pièces Détachées

Owner's Manual 601 00 22 32
Reference No. 710386 10/08/96



THESE SAFETY RULES ARE FOR YOUR PROTECTION. READ THEM CAREFULLY.
IMPORTANT

Safety standards require operator presence controls to minimize the risk of injury. Your Edger/Trimmer is equipped with such controls. Do not attempt to defeat the function of the operator presence control under any circumstances.



Look for this symbol to point out important safety precautions. It means ATTENTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.

BEFORE USE

- Read the owner's manual carefully. Be thoroughly familiar with the controls and the proper use of the Edger/Trimmer. Know how to stop the Edger/Trimmer and disengage the controls quickly.
- Do not operate the Edger/Trimmer without wearing adequate outer garments. Wear footwear that will improve footing on slippery surfaces.
- Keep the area of operation clear of all persons, particularly small children and pets.
- Thoroughly inspect the area where the Edger/Trimmer is to be used and remove all foreign objects.

FUEL SAFETY

- Handle fuel with care; it is highly flammable.
- Use an approved container.
- Check fuel supply before each use, allowing space for expansion as the heat of the engine and/or sun can cause fuel to expand.
- Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors. Replace fuel tank cap securely and wipe up spilled fuel.
- Never remove the fuel tank cap or add fuel to a running or hot engine.
- Never store fuel or Edger/Trimmer with fuel in the tank inside a building where fumes may reach an open flame.

OPERATING SAFETY

- Never allow children or young teenagers to operate the Edger/Trimmer. Keep them away while it is operating. Never allow adults to operate the Edger/Trimmer without proper instruction.
- Always wear safety glasses or eye shields during operation or while performing an adjustment or repair to protect your eyes from foreign objects that may be thrown from the Edger/Trimmer.
- Do not put hands or feet near or under rotating parts.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
- Exercise caution to avoid slipping or falling.
- Never operate the Edger/Trimmer without proper guards, plates, or other safety protective devices in place.
- Never operate the Edger/Trimmer at high transport speeds on slippery surfaces. Look behind and use care when backing.
- Never allow bystanders near the Edger/Trimmer.
- Keep children and pets away while operating.
- Never operate the Edger/Trimmer without good visibility or light.
- Do not run the engine indoors. The exhaust fumes are dangerous (containing CARBON MONOXIDE, an ODORLESS and DEADLY GAS).

- Take all possible precautions when leaving the Edger/Trimmer unattended. Stop the engine.
- Do not overload Edger/Trimmer capacity by attempting to edge too deep at too fast a rate.

SAFE STORAGE

- Always refer to the Owner's Manual instructions for important details if the Edger/Trimmer is to be stored for an extended period.
- Never store the Edger/Trimmer with fuel in the fuel tank inside a building where ignition sources are present such as water and space heaters, clothes dryers, and the like. Allow the engine to cool before storing in any enclosure.
- Keep the Edger/Trimmer in safe working condition. Check all fasteners at frequent intervals for proper tightness.

FUEL SAFETY

- After striking a foreign object, stop the engine (**motor**). Remove the wire from the spark plug, and keep the wire away from the plug to prevent accidental starting. Thoroughly inspect the Edger/Trimmer for any damage, and repair the damage before restarting and operating the Edger/Trimmer.
- If the Edger/Trimmer should start to vibrate abnormally, stop the engine (**motor**) and check immediately for the cause. Vibration is generally a warning of trouble.
- Stop the engine (**motor**) whenever you leave the operating position. Also, disconnect the spark plug wire before unclogging the blade and when making any repairs, adjustments, or inspections.
- When cleaning, repairing, or inspecting, shut-off the engine (**motor**) and make certain all moving parts have stopped.
- Never attempt to make any adjustments while the engine (**motor**) is running (**except when specifically recommended by the manufacturer**).

California Proposition 65 WARNING!

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

OWNER'S INFORMATION

Record the following information about your unit so that you will be able to provide it in case of loss or theft.

MODEL NUMBER: — (Enter complete 8 digit number from model plate on unit)

PURCHASE DATE: ___ / ___ / ___ CODE NO.: _____ SERIAL NO.: _____

DEALER'S NAME AND ADDRESS: _____

CITY: _____ STATE: _____ TELEPHONE: _____

WARNING: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer.

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SHIPPING CONTENTS

CONTENTS OF SHIPPING CARTON

- 1 - 9" Edger/Trimmer
- 1 - Handle Assembly
- 1 - Clutch Rod Assembly
- 2 - Tire Assemblies
- 1 - Owner's Manual
- 1 - Engine Manual
- 2 - Bags of Assembly Parts:
 - 4 - Screws, 5/16-18x.63 (Handle)
 - 8 - Nuts, 5/16-18 Reghexctrlk(Handle)
 - 4 - Carriage Bolts, 5/16-18X1-5/8 In. (Handle)
 - 2 - Hair Pins (Control Rod)
 - 1 - Nut, 5/16-18 Wide Flange(Tire)
 - 1 - Screw, 5/16-18x4.50(Tire)
 - 3 - Nuts, 3/8-16 Hexctrlkjam (Tire)
 - 4 - Flatwashers .344x.69x.065(Tire)
 - 2 - Spacers .328x.495x.1.39(Tire)
 - 1 - Shoulder Bolt 3/8-16 (Tire)
 - 1 - Spacer .390x.70x.70 (Tire)
 - 1 - Nut, 3/8-16 Whiz-Lock (Tire)
 - 1 - Flatwasher .504x.75x.059(Tire)
 - 1 - Cotter Pin .090x.75(Tire)

TOOLS REQUIRED FOR ASSEMBLY

- 2 - 3/4 inch Wrenches (or adjustable wrench)
- 2 - 1/2 inch Wrenches(or adjustable wrench)
- 2 - 9/16 inch Wrenches(or adjustable wrench)
- 1 - Regular Screwdriver
- 1 - Pair Pliers

⚠ CAUTION: Always wear safety glasses or eye shields while assembling Edger/Trimmer.

Fig.1-ASSY to the right shows the Edger/Trimmer completely assembled.

References to the right or left hand side of the Edger/Trimmer are from the viewpoint of the operator's position behind the unit.

TO REMOVE EDGER/TRIMMER FROM CARTON

- Remove the lower handle, control rod, upper handle and packing material from the carton.
- Remove wheels, parts bag and packing material from the carton.
- Cut down all four corners of the carton.
- Remove packing material from around Edger/Trimmer blade.

TO ASSEMBLE THE EDGER/TRIMMER

NOTE: Lower handle should be attached first as it is difficult to attach lower handle with the wheels on.

- Place lower handle inside the Edger/Trimmer frame as shown in **Fig. 2-ASSY** and secure in place with four 5/16-18x5/8 hex head wide flange screws and four 5/16-18 hex head locknuts found in parts bag. Hold back on the lower handle as you tighten the screws. Locknuts should be on the inside of the frame as shown in **Fig. 2-ASSY**.

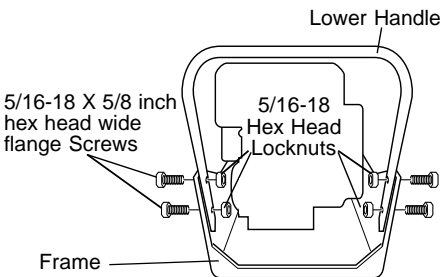


FIG. 2-ASSY

- Attach the right rear wheel to the wheel support rod of the Edger/Trimmer as shown in **Fig. 3-ASSY** with a 1/2 x 3/4 inch flatwasher and cotter pin found in parts bag. Insert cotter pin and bend ends of cotter pin with pliers.

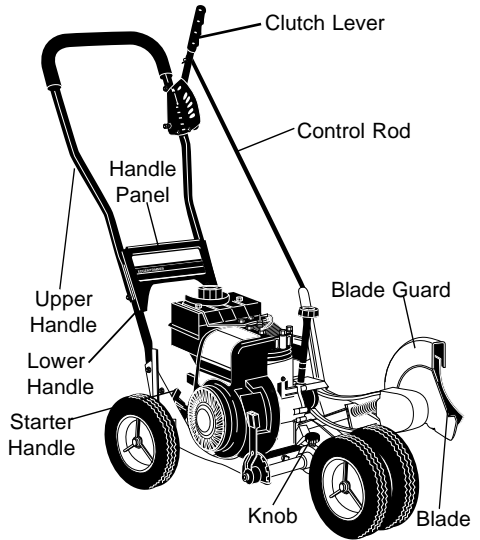


FIG. 1-ASSY

VIEW FROM RIGHT REAR WHEEL

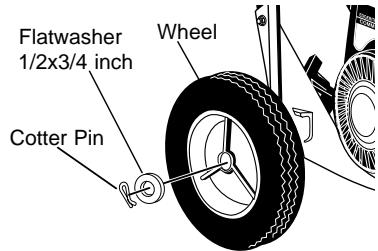


FIG. 3-ASSY

- Attach the left rear wheel to the Edger/Trimmer shown in **Fig. 4-ASSY** with a 3/8-16 x 1.40 inch shoulder bolt, spacer and 3/8-16 hex head whiz lock nut found in parts bag and tighten nut.

VIEW FROM INSIDE LEFT REAR WHEEL

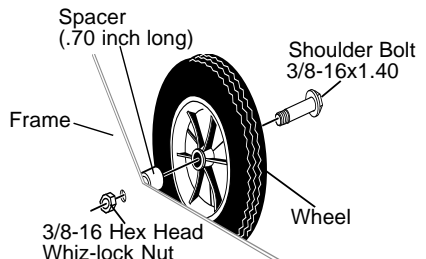


FIG. 4-ASSY

- Attach the front wheels to the Edger/Trimmer shown in **Fig. 5-ASSY** with a 5/16-18 x 4.50 inch hex head screw, four 11/32 x 11/16 inch flatwashers, two spacers and a 5/16-18 hex head wide flange locknut found in parts bag. Note position of wheels in **Fig. 5-ASSY**.

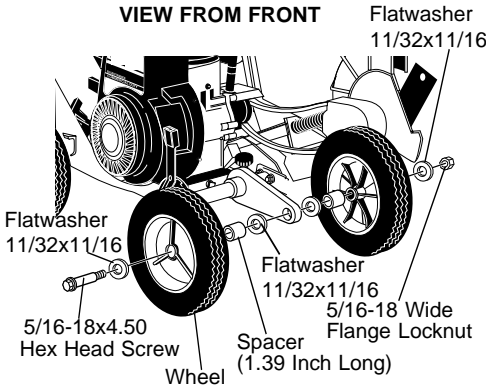


FIG. 5-ASSY

- Place the handle panel on the inside of lower handle. Hold in place while placing the upper handle on the lower handle as shown in **Fig. 6-ASSY**. Align holes in upper handle, lower handle and handle panel, secure in place with four 5/16-18 x 1-5/8 inch carriage bolts and four 5/16-18 hex head locknuts found in parts bag. Locknuts should be to the inside of the handle panel as shown.
- The clutch lever is located on the left hand side of upper handle when properly installed. Insert one end of the control rod from left to right through the hole in the clutch lever and attach with a hair pin found in parts bags. See **Fig. 6-ASSY**.
- Place the clutch lever in the first depth selection hole (forward) and insert the other end of the control rod through the hole in the quill support arm. Attach with hairpin found in parts bag.
- Move the clutch lever to rearmost NEUTRAL position and latch in.
- If it is difficult to get the clutch lever into NEUTRAL, it may be necessary to loosen the four screws and nuts holding the lower handles to the frame as shown in **Fig. 8-ASSY**. Pry up (forward) on the handles only enough to allow the clutch lever to freely enter the NEUTRAL position. Re-tighten nuts and screws. When the clutch lever is in NEUTRAL the quill support arm should be close to the spacer and screw behind it as shown in **Fig. 7-ASSY**.

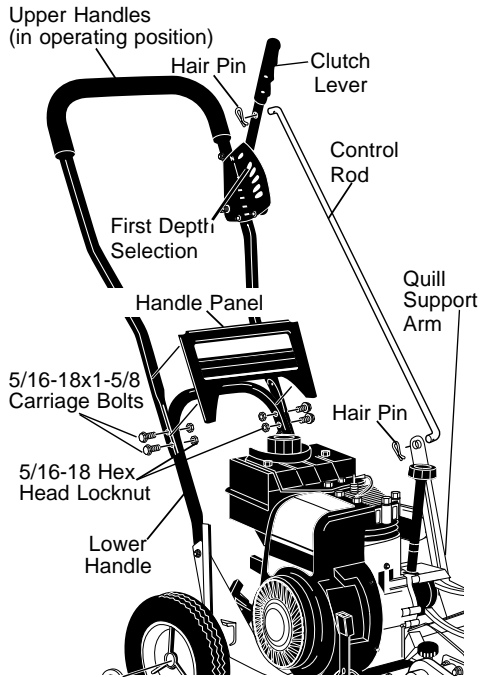


FIG. 6-ASSY

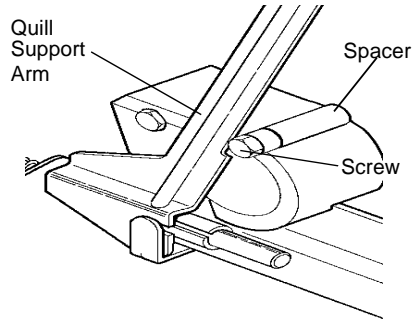


FIG. 7-ASSY

VIEW FROM RIGHT SIDE OF UNIT

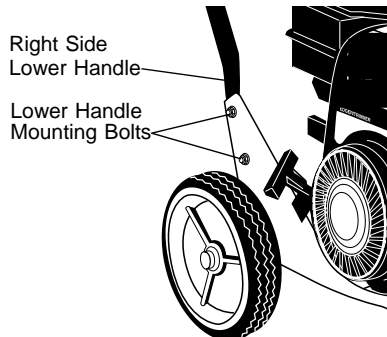


FIG. 8-ASSY

KNOW YOUR EDGER/TRIMMER

READ THIS OWNER'S MANUAL AND SAFETY RULES **BEFORE** OPERATING YOUR EDGER/TRIMMER. Compare the illustrations with your EDGER/TRIMMER to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.



Fast



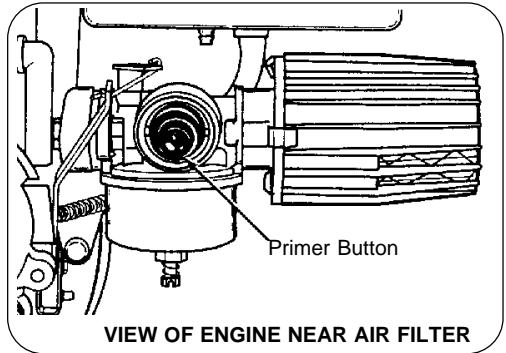
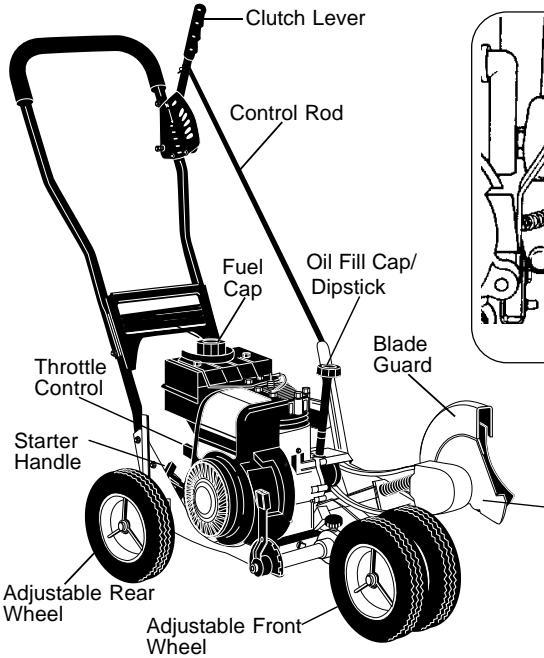
Slow



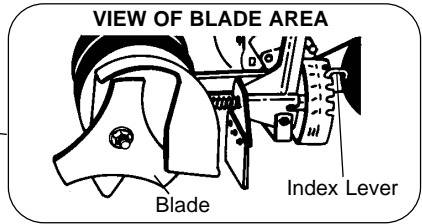
Stop



Primer Button



VIEW OF ENGINE NEAR AIR FILTER



VIEW OF BLADE AREA

FIG. 1-OP

Throttle Control – Used to control the engine speed.

Primer Button – Injects fuel directly into the carburetor manifold for faster starts.

Starter Handle – The engine on this Edger/Trimmer is equipped with an easy pull recoil starter.

Clutch Lever – Used to start and stop the blade and control the depth of cut.

Blade Guard – Used to prevent stones or other material from being thrown at the operator.

Index Lever – Permits adjustment from the edging (vertical) position to trimming (horizontal) position. To change position, pull the index lever and rotate the quill assembly to the desired angle or position.

Adjustable Rear Wheel – Right rear wheel is adjustable to level Edger/Trimmer when edging along a curb (curb-hopping).


Adjustable Front Wheel – Front wheel is adjustable from side-to-side for balance. Also, can be adjusted down for curb-hopping .

HOW TO USE YOUR EDGER

⚠ WARNING: The operation of this Edger/Trimmer can result in foreign objects being thrown into the eyes, which can cause severe eye damage. Always wear safety glasses or eye shields while operating the Edger/Trimmer.



We recommend standard safety glasses or Wide Vision Safety Mask for over your glasses.

TO STOP EDGER/TRIMMER



- To stop  the engine, make sure the clutch lever is all the way back or up and move the throttle control lever to the STOP position.

⚠ CAUTION: Never leave the Edger/Trimmer unattended while the engine is running. Always disengage the cutting blade and stop the engine.

TO USE THROTTLE CONTROL

- Run at full engine speed during normal use.
- Push throttle control lever up  to increase speed; down  to decrease speed.

TO USE PRIMER BUTTON

- Push primer button  five times. See **Fig. 1-OP** for location. Wait about two seconds between each push.
- Do not use primer button  to restart a warm engine after a short shutdown.

TO USE THE CLUTCH LEVER

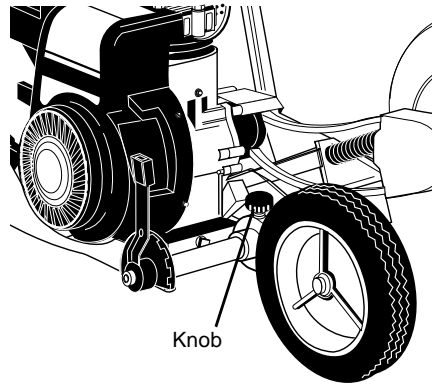
- Start the engine and move the clutch lever forward or down to engage the cutting blade.
- Select the edging depth you need. There are 5 selections up to 2-3/4 inches deep.
IMPORTANT: If very deep edging is required, we recommend that a shallow cut be made first, then cuts at greater depths until the desired depth is obtained.

TO USE THE INDEX LEVER

(TRIMMING OPERATION)

- Stop engine and disconnect the spark plug wire from the spark plug.
- Loosen the knob shown in **Fig. 1-OP** on the front wheel arm and slide the wheel all the way to the right side.
- Tighten the knob securely.

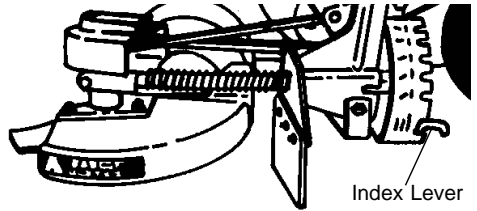
⚠ CAUTION: The front wheel must be in the extreme right position to prevent the blade from striking wheel while in trimming position.



Knob

FIG. 1-OP

- Pull the index lever out of its notch as shown below and position it in the notch marked 90°. See **Fig. 2-OP**.
- Reconnect the spark plug wire and start the engine. Move the clutch lever to the desired trimming height.



Index Lever

INDEX LEVER IN THE NOTCH MARKED "90"

FIG. 2-OP

TO USE CURB-HOPPING FEATURE

The adjustable front and right rear wheel feature permit the Edger/Trimmer to be used on an uneven surface such as a curb as shown in **Fig. 3-OP**.

- Stop the engine and disconnect the spark plug wire from the spark plug.
- Loosen the knob on the front wheel arm bracket and slide the wheel to the best position to clear the curb and balance the unit.
- Tighten the knob securely.
- Using the curb height adjust lever, lower the front wheel to a position that places the Edger/Trimmer level with the left rear wheel on the uneven curb surface.

- Loosen T- knob on the inside right rear of the main frame that secures the wheel support rod as shown in **Fig. 4-OP**.
- Slide the rear wheel down until the Edger/ Trimmer is level when the left wheel is on the curb.
- Tighten the T-knob securely.
- Reconnect the spark plug wire and start the engine. The depth of cut adjustment is the same as described in Edging Operation paragraph.

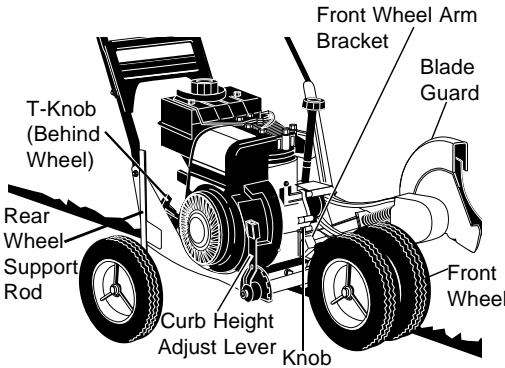


FIG. 4-OP

⚠ CAUTION: Keep away from the rotating blade. The blade can cause injury.

BEFORE STARTING ENGINE

PRE-USE CHECK OF CONTROLS

All controls should be checked for proper function before servicing or starting the engine.

- Move the clutch lever into all six positions in the selector plate. Make sure the clutch lever snaps into all six holes.
- Return the clutch lever to the rearmost hole in the selector plate.

FILL/ADD OIL:

This Edger/Trimmer was shipped with little or no oil in the engine. **Oil must be added before engine is started. DO NOT OVER-FILL.**

TO ADD ENGINE OIL

- Place the Edger/Trimmer on a level surface.

- Remove the oil fill cap-dipstick and fill the crankcase to FULL line on dipstick. See **Fig. 5-OP**. Check frequently when filling the crankcase.

NOTE: Engine may already contain some residual oil.

- Fill the engine crankcase, pouring slowly. **DO NOT OVERFILL.** For approximate capacity see your engine manual.

- Tighten the fill cap-dipstick securely each time you check the oil level.

NOTE: Check oil before each use. Add if needed.

NOTE: Change oil after the first (2) operating hours and every (25) operating hours thereafter.

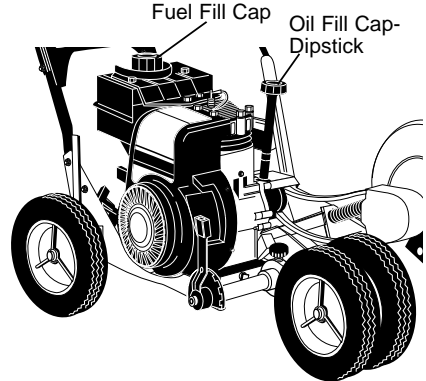


FIG. 5-OP

FILL GAS

Fill the fuel tank with clean, fresh, unleaded grade automotive gasoline. Do not use Ethyl, high octane gasoline or gasohol. Be certain container is clean and free from rust or other foreign particles. Never use gasoline that may be stale from long periods of storage in the container. If you should run out of gas while using the Edger/Trimmer, you must be certain to fill the gas tank completely or the engine will not restart. **CAUTION: DO NOT use gasoline containing any amount of alcohol as it can cause serious damage or significantly reduce performance.**

⚠ CAUTION: Never fill the gas tank while the engine is running or hot. Immediately wipe off any spilled gasoline before attempting to start the engine.

TO START THE ENGINE


Before starting the engine, be sure you have read and understood all the instructions on the preceding pages. The Edger/Trimmer is equipped with a recoil starter. The operation of the engine is controlled by the throttle control lever.

- Pull the clutch lever all the way back or up to the rearmost hole to raise and disengage the blade.
- Move the throttle control lever, see **Fig. 1-OP**, to the FAST position.
- Push primer button five times, see **Fig. 1-OP**. Wait about two seconds between each push.

NOTE: Do not use primer button to restart a warm engine after a short shutdown.

- To start engine, grasp the engine starter handle firmly with your right hand.
- Hold the handle firmly with your left hand.
- Pull up sharply on the recoil starter handle. **DO NOT** allow the starter rope to snap back, let it rewind slowly while holding the starter handle. If engine fails to start after three pulls, push primer button two times and pull starter rope again.
- When the engine starts, push throttle control lever up to increase speed; down to decrease speed. Run at full engine speed during normal use.

NOTE: The cutting blade speed is controlled by the engine speed. To reduce the cutting blade speed, push down on the throttle control lever. To increase the blade speed, push the throttle control lever up.

- To stop the engine, make sure the clutch lever is all the way back or up and move the throttle control lever to the STOP  position.



CAUTION: Never run the engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas. Keep hands, feet, hair and loose clothing away from any moving parts on the engine or edger/trimmer. Avoid the muffler and surrounding areas. Temperatures may exceed 150° F.

EDGING TIPS

- Edging is best performed when conditions are dry. If the soil is too wet, dirt becomes packed in and around the blade causing premature belt wear and decreased performance.
- If dirt does become packed around the blade, stop the engine, remove the spark plug wire, and remove the packed debris before continuing to edge. Always wear gloves when working on blade.
- If very deep edging is required, we recommend that a shallow cut be made first, then cuts at greater depth until the desired depth is obtained.
- Uniform edging can be performed when the blade guide rides on and against the surface which you are edging.
- Edging can be customized by varying the number of passes and by the distance your blade is from the surface you are edging.

MAINTENANCE

SERVICE RECORDS	SCHEDULE								SERVICE DATES					
	After First 2 Hours	Before Each Use	Frequently	Every 5 Hours	Every 10 Hours	Every 25 Hours	Begin Each Season	Before Storage						
Lubricate all Pivot Points					✓			✓						
Lubricate Wheel Axles						✓		✓						
Check Engine Oil Level		✓												
Change Engine Oil	✓					✓	✓							
Replace Air Cleaner Filter							✓							
Check Spark Plug						✓	✓							
Check Drive Belt				✓										
Tighten All Screws and Nuts	✓		✓											
Check Blade Wear/Damage			✓											
Lubricate Quill Rod					✓		✓	✓						

GENERAL RECOMMENDATIONS

The warranty on this Edger/Trimmer does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, the operator must maintain the Edger/Trimmer as instructed in this manual. The above chart is provided to assist the operator in properly maintaining the Edger/Trimmer.

LUBRICATION

- After each 25 hours of use of your Edger/Trimmer, apply light machine oil to all moving parts, particularly the wheels.
- The oil in the engine crankcase must be changed after the first 2 hours of operation and after each 25 hours of use thereafter. See OIL RECOMMENDATIONS in OPERATIONAL section in this manual.

TO CHANGE OIL

- Disconnect the spark plug wire from the spark plug.
- Remove the oil drain plug as shown in **Fig. 1-MAINT** and drain the oil into a flat pan.
- After draining all the oil, reinstall the oil drain plug securely.

NOTE: The oil will drain more freely when the engine is warm.

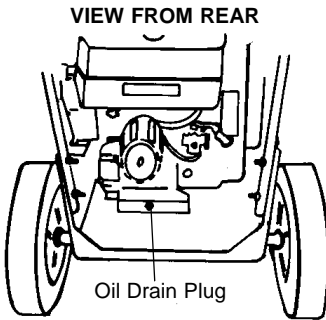


FIG. 1-MAINT.

AIR CLEANER

Replace the filter once a year; more often under dusty or dirty conditions. **DO NOT** attempt to clean or oil the air filter.

To install a new air filter, do the following:

- Disconnect the spark plug wire from the spark plug.
- Turn the cover as shown in **Fig.-2 MAINT.** to the left counterclockwise and remove the cover and the air filter from the flange.
- Discard the air filter.

- Clean the cover and the flange thoroughly.
- Insert the new air filter into the cover.
- Push the cover firmly against the flange and turn it to the right clockwise as far as it will go as shown in **Fig. 2-MAINT** below. Be sure the retainers are locked around the flange.
- Reconnect the spark plug wire.

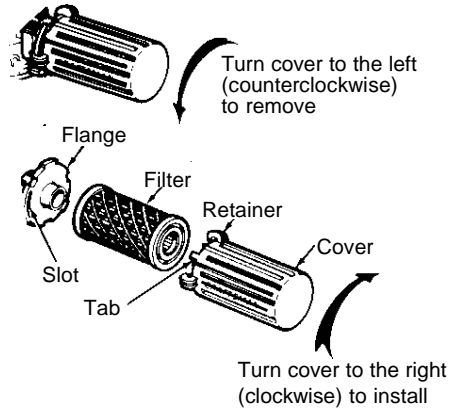


FIG. 2-MAINT.

⚠ CAUTION: Never run the engine without the air cleaner element installed. A defective air cleaner can result in loss of engine power and can cause excessive wear or damage to the engine components if dirt or dust is permitted to enter the engine through the carburetor. A damaged air cleaner, or one that is clogged with dust or dirt should be replaced immediately.

SPARK PLUG

Clean the spark plug and reset the gap periodically. Before removing spark plug, clean the area around its base to prevent dirt from entering into the engine. Replace the spark plug if the electrodes are pitted or burned or if the porcelain is cracked. Clean the spark plug by carefully scraping the electrodes with a knife or screwdriver (do not sand blast or use a wire brush). Be sure the spark plug is clean and free of foreign material. Check the electrodes gap with a wire feeler gauge and reset to .030" if necessary. If a new spark plug is needed, refer to the Engine manual for the proper replacement spark plug.

Before reinstalling the spark plug, coat the threads lightly with graphite or light oil to insure easy removal. Tighten the spark plug firmly into the engine. If a torque wrench is available, torque the spark plug to 15 foot-pounds.

⚠ CAUTION: Always stop the engine and disconnect the spark plug wire before making any repairs to the Edger/Trimmer.

SERVICE AND ADJUSTMENTS

V-BELT REPLACEMENT

Your Edger/Trimmer is equipped with a V-belt made of a special compound. If the belt becomes worn or breaks, replace it with an original equipment belt as shown in the Repair Parts section of this manual. Never use a substitute.

- Disconnect the spark plug wire.
- Put the clutch lever back or up to release the tension from the belt.
- Remove the two top screws from the engine pulley cover as shown in **Fig 1-SERV& ADJ** and remove the cover. Make sure you do not lose the spacer on the rear screw.

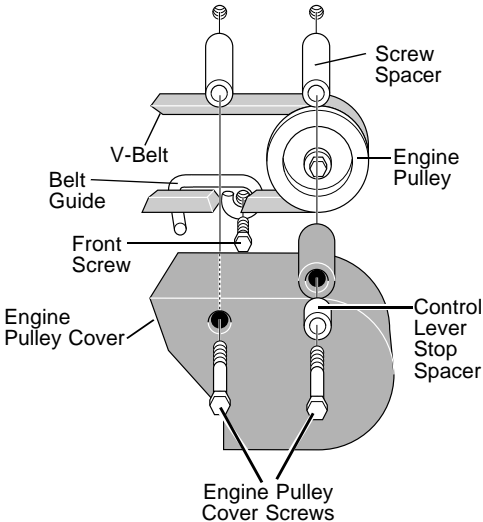


FIG. 1-SERV & ADJ

- Remove the front screw securing the belt guide as shown in **Fig. 1-SERV& ADJ**, to the engine. Swing the belt guide away from the belt.
- Remove the three screws from the belt guard as shown in **Fig. 2- SERV & ADJ**.
- Remove the belt from the engine and quill assembly pulleys and install the new belt.
- Install and secure front belt guard.
- Secure the belt guide loosened earlier.
- Reinstall the engine pulley cover and reconnect the spark plug wire.

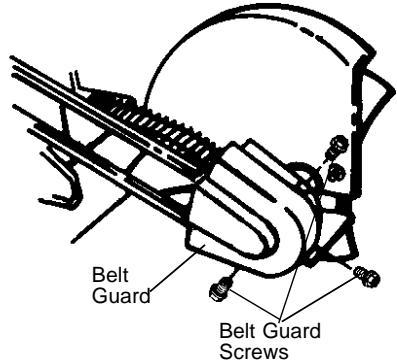


FIG. 2-SERV & ADJ

BLADE REPLACEMENT

The cutting blade is subject to wear and damage such as nicks and dents. This will not generally affect its function.

This blade is specially designed to not require sharpening. Do not attempt to sharpen this blade. The blade is reversible. If the nicks and dents are excessive, remove the blade, turn it around and reinstall. This will provide a fresh cutting edge. The blades should be replaced if both sides are worn and damaged. If any cracks are evident, replace the blade immediately.

⚠ CAUTION: When removing or tightening the blade nut, always use the method shown in **Fig. 3- SERV & ADJ**. The holding wrench must always be positioned on the nut behind the cutting blade.

⚠ CAUTION: Do not attempt to sharpen this blade. Sharpening could damage it and cause it to break, which may further result in injury to yourself or a bystander.

To replace the blade, do the following:

- Always wear gloves when handling the blade.
- Disconnect spark plug wire.
- Remove the 1/2-20 locknut shown in **Fig. 3-SERV & ADJ** securing the blade to the drive shaft.
- Remove the blade.
- Install the new blade and reinstall nut. Tighten the nut securely.
- Reconnect the spark plug wire.

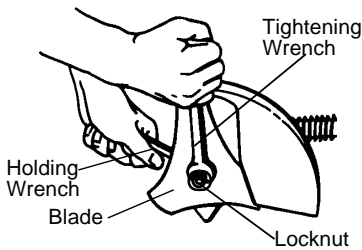


FIG. 3-SERV & ADJ

TO ADJUST CARBURETOR

The carburetor shown below has been pre-set at the factory and readjustment should not be necessary. If you think your carburetor needs

adjusting, see your nearest Authorized Service Center.

IMPORTANT: Never tamper the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact your nearest Service Center which has the proper equipment and experience to make any necessary adjustments.

STORAGE

CAUTION: Never store your Edger/Trimmer indoors or in an enclosed, poorly ventilated area. If gasoline remains in the tank fumes may reach an open flame, spark or pilot light from a furnace, water heater, clothes dryer, cigarette, etc. and ignite.

EDGER/TRIMMER

- Clean the Edger/Trimmer thoroughly; remove all debris and wipe the unit dry.
- Inspect the Edger/Trimmer for worn or damaged parts and tighten all loose hardware.
- Oil all points described in the Lubrication paragraph in the **Maintenance** section of this manual.
- Store the Edge/Trimmer in a protected area and cover for additional protection.

IMPORTANT: A yearly checkup or tune-up by a Service Center is a good way of ensuring that your Edger/Trimmer will provide maximum performance for the next season.

ENGINE

IMPORTANT: It is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel filter, fuel hose, or tank during storage. Also, experience indicates that alcohol-blended fuels called gasohol or using ethanol or methanol can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

To prevent engine damage (if Edger/Trimmer is not used for more than 30 days) follow the steps below.

- To remove gasoline, run the engine until the tank is empty and the engine stops.
- If you do not want to remove gasoline, a fuel stabilizer may be added to any gasoline left in the tank to minimize gum deposits and acids. If the tank is almost empty, mix stabilizer with fresh gasoline in a separate container and add some to the tank. Always follow instructions on stabilizer container. Then run engine at least 10 minutes after stabilizer is added to allow mixture to reach carburetor. Store Edger/Trimmer in a safe place. See **IMPORTANT** under **STORAGE (ENGINE)**.
- Store the Edger/Trimmer in the wheels-down, operating position. If the Edger/Trimmer is stored in any other position, oil from the crankcase could enter the cylinder, causing a service problem.
- You can keep your engine in good operating condition during storage by:
 - Changing oil.
 - Lubricating the piston/cylinder area. This can be done by first removing the spark plug and squirting clean engine oil into the spark plug hole. Then cover the spark plug hole with a rag to absorb oil spray. Next, rotate the engine by pulling the starter two or three times. Finally, reinstall spark plug and attach spark plug wire.
 - Spray a light oil around the top of the tube the quill rod extends through and work the oil in with the clutch lever. This will prevent the quill assembly from sticking to the tube next season.

TROUBLE SHOOTING

TROUBLE	CAUSE	CORRECTION
Difficult starting or Engine runs erratic	Stale fuel	Drain fuel tank. Fill with fresh fuel
	Defective spark plug	Clean and re-gap or replace
	Clogged fuel line	Replace fuel filter
	Blocked fuel line or empty fuel tank	Clean fuel line; check gas tank
	Carburetor out of adjustment	Have carburetor adjusted
	Fouled spark plug	Clean and adjust gap, or replace
	Clogged air cleaner	Tap clean or replace air cleaner
Cutting blade fails to turn	Jammed due to foreign object	Clear obstruction
	Loose blade	Tighten blade retaining nut
	Defective belt	Replace V-belt
	Defective quill bearings	Replace the bearings
	Quill rod sticking	Lubricate tube and rod
Blade fails to cut properly	Damaged or worn blade	Replace blade
Excessive vibration	Loose parts	Stop engine immediately; tighten all bolts. If vibration continues, take the unit into the nearest Service Center