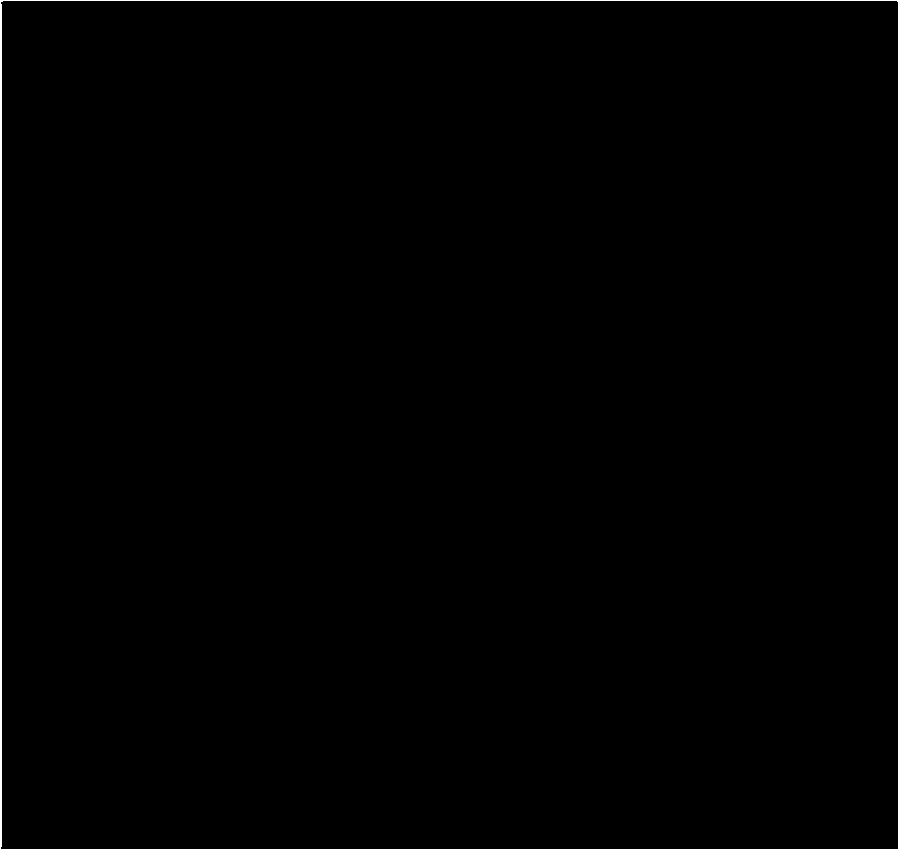


J O N S E R E D S E R V I C E

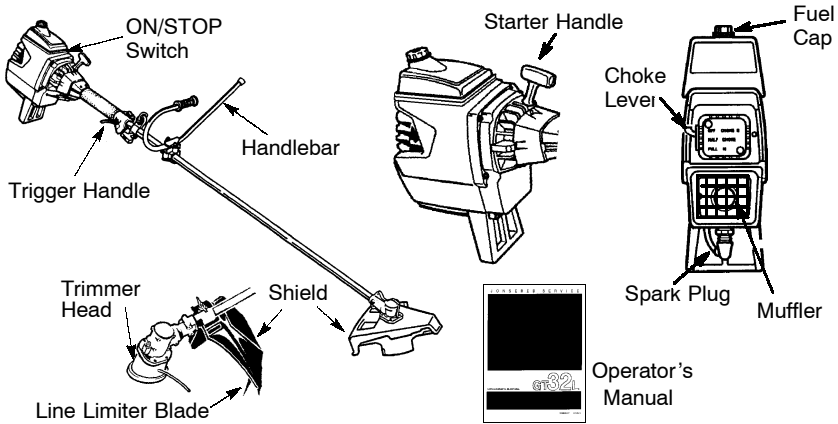


GT32L

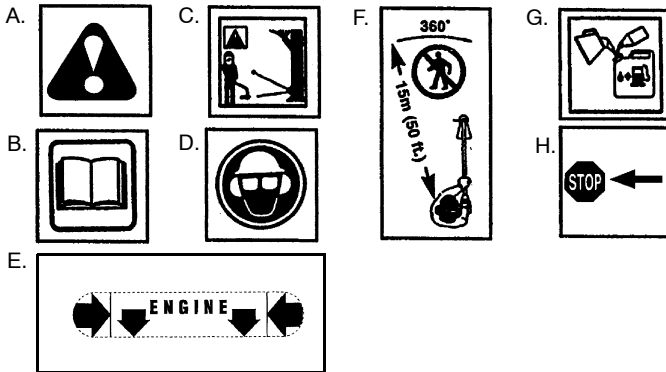
OPERATOR'S MANUAL



IDENTIFICATION (WHAT IS WHAT?)



IDENTIFICATION OF SYMBOLS



- A. **WARNING!** This brushcutter can be dangerous! Careless or improper use can cause serious or even fatal injury.
- B. Read and understand the instruction manual before using the brushcutter.
- C. **WARNING!** The trimmer line can throw objects violently. You can be blinded or injured. Always wear eye protection.
- D. Always use:
Ear protection
Protective glasses or visor
- E. Assist handle to be positioned only between the arrows.
- F. The operator of the machine must insure that no one comes within a 15 meter radius while working. When several operators are working within the same area a safety distance of at least 15 meters must be observed.
- G. Use unleaded or quality leaded petrol and two-stroke oil.
- H. Engine ON/STOP Switch.

SAFETY RULES

WARNING: When using gardening appliances, basic safety precautions must always be followed to reduce the risk of fire and serious injury.

DANGER: This power tool can be dangerous! This unit can cause serious injury including amputation or blindness to the operator and others. The warnings and safety instructions in this manual must be followed to provide reasonable safety and efficiency in using the unit. The operator is responsible for following the warnings and instructions in this manual and on the unit. Read the entire instruction manual before assembling and using the unit! Restrict the use of this unit to persons who read, understand, and follow the warnings and instructions in this manual and on the unit. Never allow children to operate this unit.



INSTRUCTION MANUAL



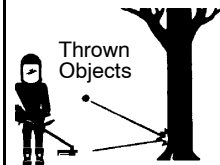
SAFETY INFORMATION ON THE UNIT

DANGER: Blade can thrust violently away from material it does not cut. Blade thrust can cause amputation of arms or legs. Keep people and animals 15 meters away.

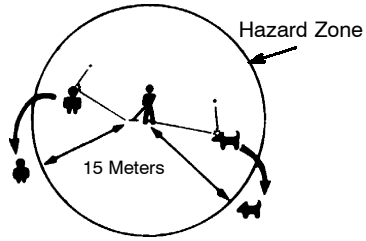


WARNING: Trimmer line can throw objects violently. You and others can be blinded or injured. Wear safety glasses and leg protection.

ALWAYS WEAR:



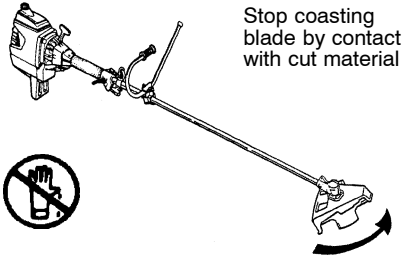
WARNING: Hazard zone for thrown objects. Blade/Trimmer line can throw objects violently. Others can be blinded or injured. Keep people and animals 15 meters away.



WARNING: Do not use trimmer head as a fastening device for the blade.



WARNING: The blade continues to spin after the throttle is released or, engine is turned off. The coasting blade can throw objects or seriously cut if accidentally touched. Stop the blade by contacting the right hand side of the coasting blade with material already cut.



OPERATOR SAFETY

- Dress properly. Always wear safety glasses or similar eye protection when operating, or performing maintenance on your unit. (Safety glasses are available.) Eye protection should be marked Z87. Always wear face or dust mask if operation is dusty.
- Always wear heavy, long pants, long sleeves, boots, and gloves. Wearing safety leg guards is recommended.
- Always wear foot protection. Do not go barefoot or wear sandals.
- Secure hair above shoulder length. Secure or remove loose clothing and jewelry or clothing with loosely hanging ties, straps, tassels, etc. They can be caught in moving parts.
- Being fully covered also helps protect you from debris and pieces of toxic plants thrown by spinning line/blade.
- Stay alert. Do not operate unit when you are tired, ill, upset or under influence of alcohol,

drugs, or medication. Watch what you are doing; use common sense.

- Wear hearing protection.
- Never start or run the engine inside a closed room or building. Breathing exhaust fumes can kill.
- Keep handles free of oil and fuel.
- Always use the handlebar and a properly adjusted shoulder strap with a blade (see ASSEMBLY).

UNIT/MAINTENANCE SAFETY

⚠ WARNING: Stop unit and disconnect the spark plug before performing maintenance (except carburetor adjustments).

- Look for and replace damaged or loose parts before each use. Look for and repair fuel leaks before use. Keep unit in good working condition.
- Throw away blades that are bent, warped, cracked, broken, or damaged in any other way. Replace trimmer head parts that are cracked, chipped, broken, or damaged in any other way before using the unit.
- Maintain unit according to recommended procedures. Keep blade sharp. Keep cutting line at the proper length.
- Use only recommended replacement line. Never use wire, rope, string, etc.
- Install required shield properly before using the unit. Use the metal shield for all metal blade use. Use the plastic shield for all line trimmer use.
- Use only specified blade or trimmer head; make sure it is properly installed and securely fastened.
- Never start engine with clutch drum removed. The clutch can fly off and cause serious injury.
- Be sure blade or trimmer head stops turning when engine idles.
- Make carburetor adjustments with the lower end supported to prevent blade or trimmer line from contacting any object. Hold unit by hand; do not use the shoulder strap for support.
- Keep others away when making carburetor adjustments.
- Use only recommended McCulloch® accessories and replacement parts.
- Have all maintenance and service not explained in this manual performed by your authorized service dealer.

FUEL SAFETY

- Mix and pour fuel outdoors.
- Keep away from sparks or flames.
- Use a container approved for fuel. Do not smoke or allow smoking near fuel or the unit or while using the unit.
- Avoid spilling fuel or oil. Wipe up all fuel spills before starting engine.
- Move at least 3 meters away from fueling site before starting engine.
- Stop engine and allow it to cool before removing fuel cap.

- Empty the fuel tank before storing or transporting the unit. Use up fuel left in the carburetor by starting the engine and letting it run until it stops.
- Store unit and fuel in area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.
- Always store gasoline in a container approved for flammable liquids.

CUTTING SAFETY

⚠ WARNING: Inspect the area to be cut before each use. Remove objects (rocks, broken glass, nails, wire, string, etc.) which can be thrown or become entangled in the blade or trimmer head.

- Keep others including children, animals, bystanders, and helpers at least 15 meters away. Stop engine immediately if you are approached.
- Always keep engine on the right-hand side of your body.
- Hold the unit firmly with both hands.
- Keep firm footing and balance. Do not overreach.
- Keep blade or trimmer head below waist level. Do not raise engine above your waist.
- Keep all parts of your body away from blade, trimmer head, and muffler when engine is running. A hot muffler can cause serious burns.
- Cut from your left to your right. Cutting on right side of the shield will throw debris away from the operator.
- Use only in daylight or good artificial light.
- Use only for jobs explained in this manual.

TRANSPORTING AND STORAGE

- Stop the unit before carrying.
- Keep muffler away from your body.
- Allow the engine to cool and secure the unit before storing or transporting it in a vehicle. Empty the fuel tank before storing or transporting the unit. Use up fuel left in the carburetor by starting the engine and letting it run until it stops.
- Store unit so the weed blade or line limiter blade cannot accidentally cause injury. The unit can be hung by the tube.
- Always install transport guard on blade before transporting or storage.
- Store unit out of reach of children.

SAFETY NOTICE: Exposure to vibrations through prolonged use of gasoline powered hand tools could cause blood vessel or nerve damage in the fingers, hands, and joints of people prone to circulation disorders or abnormal swellings. Prolonged use in cold weather has been linked to blood vessel damage in otherwise healthy people. If symptoms occur such as numbness, pain, loss of strength, change in skin color or texture, or loss of feeling in the fingers, hands, or joints, discontinue the use of this tool and seek medical attention. An anti-vibration system does not guarantee the avoidance of these problems. Users who operate power tools on a continual and regular basis must monitor closely their physical condition and the condition of this tool.

ASSEMBLY

CARTON CONTENTS

Check carton contents against the following list:

- Brushcutter
- Blade shield screws (4)
- Cupped washer
- Large nut for installing blades
- Hex wrench
- Metal shield
- Plastic shield
- Shoulder strap with warning
- 4-point weed blade
- Trimmer head
- Handlebar
- Wing nut

⚠ WARNING: Always stop unit and disconnect spark plug before performing any assembly procedures.

⚠ WARNING: If received assembled, repeat all steps to ensure your unit is properly assembled and all fasteners are secure.

Examine parts for damage. Do not use damaged parts.

It is normal for the fuel filter to rattle in the empty fuel tank.

Finding fuel or oil residue on muffler is normal due to carburetor adjustments and testing done by the manufacturer.

TOOLS REQUIRED

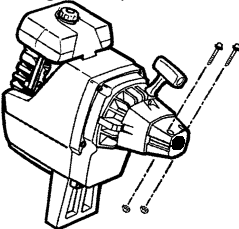
- Hex wrench (provided)
- Adjustable wrench

ATTACH THE TUBE

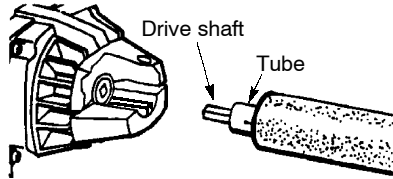
NOTE: Illustrations within this section will help in identifying the assembly steps. Be sure to read each section and review the illustrations, before you begin.

NOTE: A drive shaft is located in the center of the tube. Make sure this shaft does not fall out of the tube. Dirt on the shaft will significantly reduce the life of the unit. If this shaft falls out, clean, relubricate, and re-install.

- Insert the 2 tube assembly screws and nuts as illustrated. Keep loose at this time, you will tighten them during a later step.
- Position locknuts in lower holes.
- Tighten the screws with the hex wrench just enough to hold the hardware together while holding the locknuts with your other hand.
- Remove the packing cover from the straight end of the tube (your unit may not have a packing cover.)

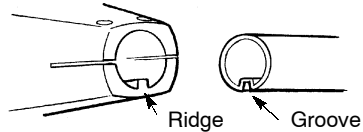


- Pull about 1/2 inch of the drive shaft out of the inside of the tube.



NOTE: The end of the drive shaft is square. This square end fits inside a square hole in a shaft inside the engine. Look inside the end of the engine and you will see the square hole in the shaft.

NOTE: The end of the tube has a groove that aligns with a ridge in the engine opening. Locate the groove and ridge.



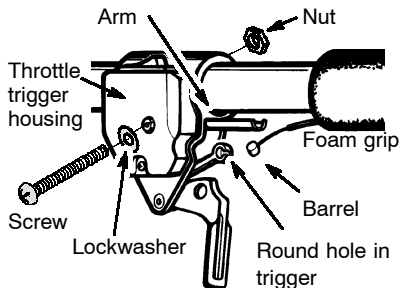
- Align the groove in the tube with the ridge in the engine opening. Insert the tube into the opening.
- Firmly push the tube into engine until it will no longer go into the opening.
- Tighten screws alternately with the hex wrench until secure.

ATTACH THE THROTTLE CABLE

CAUTION: Do not bend the throttle cable.

- Slide the throttle trigger housing from the foam grip about 1" to 1-1/2".
- Insert the throttle cable through the tunnel in the foam grip until the end of the cable extends at least 2 inches beyond grip.
- Hold the trigger away from the tube; insert the barrel end of the throttle cable into the round opening in the trigger.

NOTE: When inserting barrel end of the throttle cable into the round opening in trigger, make sure that the barrel is completely inserted and throttle cable is located in the split in the arm.



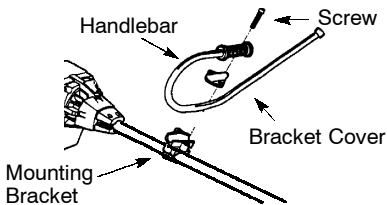
- Push the cable back into the split in the arm. Guide the arm into the foam grip tunnel until the throttle trigger housing is flush against the grip.
- Squeeze and hold trigger against foam grip. Install screw and nut.

CAUTION: Do not overtighten screw. There must be at least 1/8" free play in the trigger. Make sure trigger will move freely so the engine can fully return to idle when the trigger is released.

ATTACHING THE HANDLEBAR

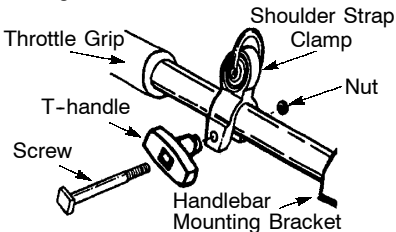
⚠ DANGER: During blade usage, the barrier portion of the handlebar must be installed as shown to provide a barrier between operator and the spinning blade.

- Locate the decal on the handlebar. This decal includes two arrows. Position the handlebar with the mounting bracket between these arrows.
- Position the bracket cover over the handlebar. Again make sure the handlebar is between the arrows.
- Insert screws and hand tighten only. Be sure the handlebar is installed correctly; then, tighten each screw securely with the short hex wrench.

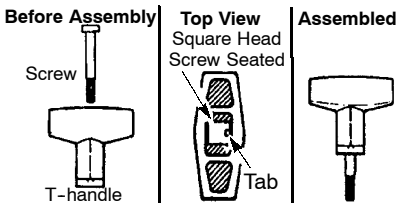


ASSEMBLY OF SHOULDER STRAP

1. Align shoulder strap clamp between handlebar mounting bracket and engine.
2. Firmly push the shoulder strap clamp onto the tube. Be sure that the shoulder strap clamp is installed with the hex shaped recession (on the clamp) facing the left side of the tube as viewed from the engine.



3. Drop the threaded end of the screw through the opening in the top of the T-handle.
4. Pull on the threaded end of the screw to bring the head of the screw past the tab inside the T-handle.



5. Seat nut in the hex shaped recession on the back side of the shoulder strap clamp.
6. Insert the threaded end of the screw through the hole in the shoulder strap clamp and tighten securely **by hand only**.

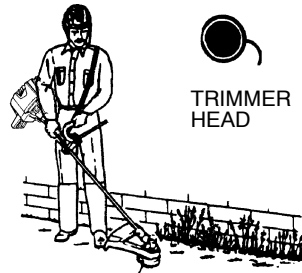
⚠ WARNING: Proper shoulder strap and handlebar adjustments are required before starting the engine.

7. Try on shoulder strap and adjust for fit and balance before starting the engine or beginning a cutting operation.
 8. Insert your right arm and head through the shoulder strap and allow it to rest on your left shoulder. Make sure the danger sign is on your back and the hook is to the right side of your waist.
- NOTE:** A one-half twist is built in the shoulder strap to allow the strap to rest flat on the shoulder.
9. Adjust the strap, allowing the hook to be about 150 mm below the waist.
 10. Fasten the strap hook to the clamp located between the trigger handle and the handlebar clamp base and lift the tool to the operating position.

CONFIGURING YOUR UNIT

You can configure your unit using a cutting head for grass and light weeds, or a weed blade for cutting grass, weeds, and brush up to 13 mm in diameter. To assemble your unit, go to the section for the desired configuration and follow the instructions.

ASSEMBLY INFORMATION - TRIMMER HEAD



NOTE: Remove the blade and metal shield before attaching the plastic shield and trimmer head. To remove blade, push in locking lever and hold. Rotate blade nut until the locking lever falls into one of the grooves in the dust cup. Continue to hold the locking lever. This will keep the shaft from turning while loosening the blade nut. Remove blade nut by turning clockwise.

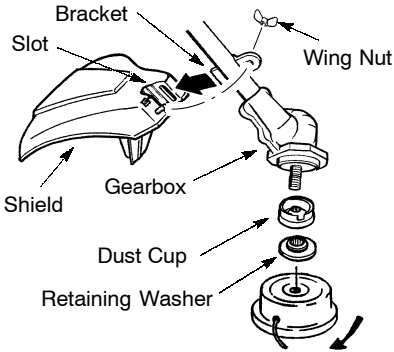
Release locking lever. Remove both washers and blade. To remove metal shield, loosen and remove the four mounting screws. See ATTACHING THE METAL SHIELD and INSTALLATION OF THE METAL BLADE for illustrations. Be sure to store all parts and instructions for future use.

ATTACHING THE PLASTIC SHIELD AND TRIMMER HEAD

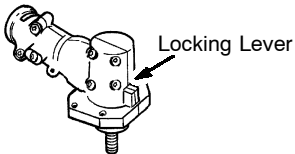
⚠ WARNING: The shield must be properly installed. The shield provides partial protection from the risk of thrown objects to the operator and others and is equipped with a line limiter blade which cuts excess line to the proper length. The line limiter blade (on underside of shield) is sharp and can cut you.

1. Remove wing nut from shield.
2. Insert bracket into slot on shield.
3. Pivot shield until bolt passes through hole in bracket.
4. Tighten the wing nut securely.

NOTE: If your unit has a plastic cover over the threads on the threaded shaft, remove the covering to expose the threads. Before installing the trimmer head, make sure the dust cup is positioned on the gearbox as shown below.

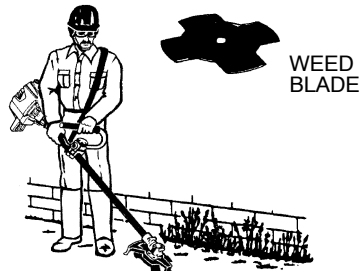


- NOTE:** Make sure all parts are properly installed as shown in the illustration before installing the trimmer head.
5. Push in locking lever and hold.
 6. Rotate dust cup until the locking lever falls into one of the grooves.



7. Continue to hold in locking lever. This will keep the shaft from turning while tightening the trimmer head.
8. Thread trimmer head onto the shaft in the direction shown on the decal. Tighten until secure.
9. Release locking lever.

ASSEMBLY INFORMATION - WEED BLADES

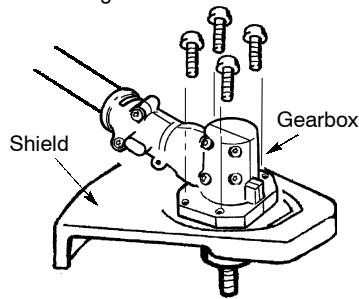


NOTE: Remove the trimmer head and plastic shield before attaching the metal shield and installing the weed blade. To remove the trimmer head, push in locking lever and hold. Rotate trimmer head until the locking lever falls into one of the grooves in the dust cup. Continue to hold in locking lever. This will keep the shaft from turning while loosening the cutting head. To remove the plastic shield, loosen and remove wing nut. Pivot shield to release bracket from slot. See INSTALLATION OF THE CUTTING HEAD and ATTACHING THE PLASTIC SHIELD for illustrations. Be sure to store all parts and instructions for future use. Never use the trimmer head with the metal blade installed.

ATTACHING THE METAL SHIELD

⚠ WARNING: The metal shield must be properly installed on the tool anytime the tool is used with a blade. Failure to install the shield in the position shown can result in serious injury to the operator. The length of the shield must be aligned with the length of the tube.

1. Place the metal shield under the gearbox, and align the screw holes.



2. Insert and thread the 4 mounting screws through the holes of the gearbox and the metal shield. Tighten evenly and securely with the hex wrench provided.

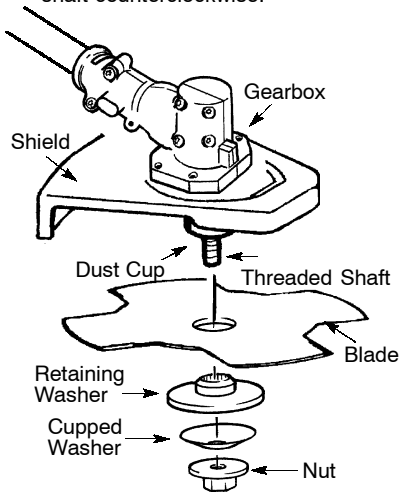
INSTALLATION OF THE METAL BLADE

WARNING: Wear protective gloves when handling or performing maintenance on the blade to avoid injury. The blade is sharp and can cut you even when it is not moving.

WARNING: Do not use any blades, or fastening hardware other than the washers and nuts shown in the following illustrations. These parts must be provided by McCulloch, and installed as shown below. Failure to use proper parts can cause the blade to fly off and seriously hurt you or others.

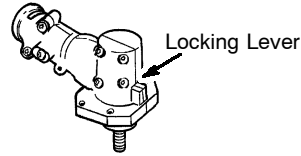
NOTE: The dust cup and retaining washer are located on the gearbox shaft and not in the parts bag. All other fasteners mentioned in the following assembly steps are in the parts bag.

1. Remove the retaining washer from the threaded shaft of the gearbox. Leave the dust cup on the shaft.
2. Install the blade and the retaining washer over the threaded shaft.
3. Make sure the raised part of the retaining washer is facing the gearbox and the raised area fits into the hole in the center of the blade.
4. Slide the blade and retaining washer onto the shaft of the gearbox.
5. Place the cupped washer onto the shaft. Make sure the cupped side of the washer is toward the blade.
6. Install the blade nut by threading onto the shaft counterclockwise.



NOTE: Make sure all parts are in place as illustrated, and the blade is sandwiched between the dust cup and the retaining washer. There should be no space between the blade and the dust cup or the retaining washer.

7. Push in locking lever and hold.
8. Rotate blade nut until the locking lever falls into one of the grooves in the dust cup.



9. Continue to hold in locking lever. This will keep the shaft from turning while tightening the blade nut.
10. Tighten blade nut firmly with a wrench.
11. Release locking lever.
12. Turn blade by hand. If the blade binds against the shield, or appears to be uneven, the blade is not centered, and you must re-install.

OPERATION

BEFORE STARTING ENGINE

WARNING: Be sure to read the fuel information in the safety rules before you begin. If you do not understand the safety rules, do not attempt to fuel your unit. Contact an authorized service dealer.

FUELING ENGINE

WARNING: Remove fuel cap slowly when refueling.

This engine is certified to operate on unleaded gasoline. Before operation, gasoline must be mixed with a good quality 2-cycle air-cooled engine oil. Mix gasoline and oil at a ratio of 40:1 (2.5%). A 40:1 ratio is obtained by mixing 5 liters of unleaded petrol with 0,125 liter of oil. **DO NOT USE** automotive oil or boat oil. These oils will cause engine damage. When mixing fuel, follow instructions printed on container. Once oil is added to gasoline, shake container momentarily to assure that the fuel is thoroughly mixed. Always read and follow the safety rules relating to fuel before fueling your unit.

IMPORTANT

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 avoid engine problems, empty the fuel system before storage for 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season.

Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

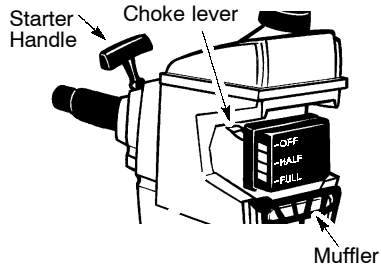
HOW TO STOP YOUR UNIT

- To stop the engine, move the ON/STOP switch to the STOP position.
- If engine does not stop, move choke lever to FULL CHOKE position.

HOW TO START YOUR UNIT

WARNING: The trimmer head will turn while starting the engine. Avoid any contact with the muffler. A hot muffler can cause serious burns.

STARTING A COLD ENGINE (or a warm engine after running out of fuel)



1. Set unit on a flat surface.
2. Move the ON/STOP switch to the ON position.
3. Move choke lever to the FULL CHOKE position.
4. Squeeze the throttle trigger fully and hold through *all remaining steps*.
5. Pull starter rope handle sharply until engine sounds as if it is trying to start, but do not pull rope more than 6 times.
6. As soon as engine sounds as if it is trying to start, move choke lever to HALF CHOKE.
7. Pull starter rope sharply until engine runs, but no more than 6 pulls. If the engine doesn't start after 6 pulls (at the HALF CHOKE position), move the choke lever to the FULL CHOKE position. Squeeze and hold the throttle trigger and pull the starter rope 2 more times. Move the choke lever to the HALF CHOKE position and pull the starter rope until the engine runs, but no more than 6 pulls.

NOTE: If engine still doesn't start, it is probably flooded. Proceed to STARTING A FLOODED ENGINE.

8. Once the engine starts, allow it to run 10 seconds, then move the choke lever to OFF CHOKE. Allow the unit to run for 30 more seconds at OFF CHOKE before releasing the throttle trigger.

NOTE: If engine dies with the choke lever in the OFF CHOKE position, move the choke lever to the HALF CHOKE position and pull the rope until engine runs, but no more than 6 pulls.

STARTING A WARM ENGINE

1. Move the ON/STOP switch to the ON position.
2. Move the choke lever to the HALF CHOKE position.
3. Squeeze and hold the throttle trigger. Keep throttle trigger fully squeezed until the engine runs smoothly.
4. Pull starter rope sharply until engine runs, but no more than 5 pulls.
5. Allow engine to run 15 seconds, then move the choke lever to the OFF CHOKE position.

NOTE: If engine has not started, pull starter rope 5 more pulls. If engine still does not run, it is probably flooded.

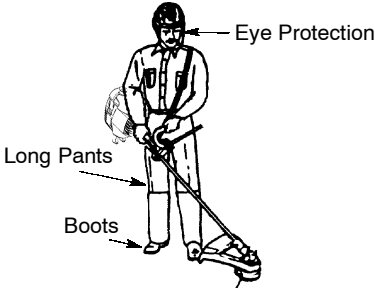
STARTING A FLOODED ENGINE

Flooded engines can be started by placing the choke lever in the OFF CHOKE position; then, pull the rope to clear the engine of excess fuel. This could require pulling the starter handle many times depending on how badly the unit is flooded.

If the unit still doesn't start, refer to the TROUBLESHOOTING TABLE.

OPERATING POSITION

ALWAYS WEAR:



Cut from your left to your right.

When operating unit, clip shoulder strap onto clamp, stand as shown and check for the following:

- Wear eye protection and heavy clothing.
- Extend your left arm and hold handlebar grip with your left hand.
- Hold throttle grip with your right hand with finger on throttle trigger.
- Keep unit below waist level.
- Keep shoulder strap pad centered on your left shoulder and danger sign centered on your back.
- Maintain full weight of tool on your left shoulder.
- Without bending over, keep the blade or trimmer head near and parallel to the ground and not crowded into material being cut.

OPERATING INSTRUCTIONS FOR USE WITH TRIMMER HEAD

WARNING: Always wear eye protection. Never lean over the trimmer head. Rocks or debris can ricochet or be thrown into eyes and face and cause blindness or other serious injury.

Before trimming, bring engine to a speed sufficient to cut material to be trimmed.

Do not run the engine at a higher speed than necessary. The cutting line will cut efficiently when the engine is run at less than full throttle. At lower speeds, there is less engine noise and vibration. The cutting line will last longer and will be less likely to "weld" onto the spool.

Always release the throttle trigger and allow the engine to return to idle speed when not cutting.

To stop engine:

- Release the throttle trigger.
- Push and release the engine ON/STOP switch.

TRIMMER LINE ADVANCE

The trimmer line will advance approximately 50 mm each time the bottom of the trimmer head is tapped on the ground with the engine running at full throttle.

The most efficient line length is the maximum length allowed by the line limiter.

Always keep the shield in place when the tool is being operated.

To advance line:

- Operate the engine at full throttle.
- Hold the trimmer head parallel to and above the grassy area.
- Tap the bottom of the trimmer head lightly on the ground one time. Approximately 50 mm of line will be advanced with each tap.

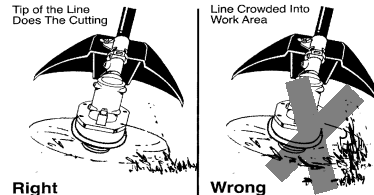
Always tap the trimmer head on a grassy area. Tapping on surfaces such as concrete or asphalt can cause excessive wear to the trimmer head.

If the line is worn down to 50 mm or less, more than one tap will be required to obtain the most efficient line length.

CUTTING METHODS

WARNING: Use minimum speed and do not crowd the line when cutting around hard objects (rock, gravel, fence posts, etc.), which can damage the trimmer head, become entangled in the line, or be thrown causing a serious hazard.

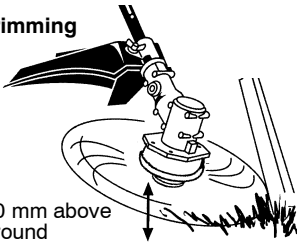
- The tip of the line does the cutting. You will achieve the best performance and minimum line wear by not crowding the line into the cutting area. The right and wrong ways are shown below.



- The line will easily remove grass and weeds from around walls, fences, trees and flower beds, but it also can cut the tender bark of trees or shrubs and scar fences.
- For trimming or scalping, use less than full throttle to increase line life and decrease head wear, especially:
 - During light duty cutting.
 - Near objects around which the line can wrap such as small posts, trees or fence wire.
- For mowing or sweeping, use full throttle for a good clean job.

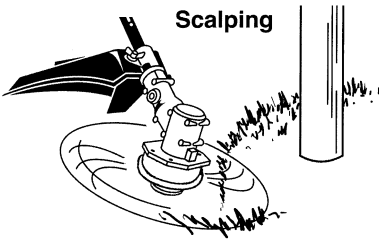
TRIMMING - Hold the bottom of the trimmer head about 80 mm above the ground and at an angle. Allow only the tip of the line to make contact. Do not force trimmer line into work area.

Trimming



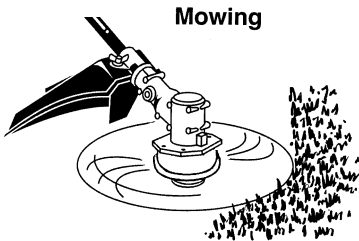
80 mm above ground

SCALPING - The scalping technique removes unwanted vegetation down to the ground. Hold the bottom of the trimmer head about 80 mm above the ground and at an angle. Allow the tip of the line to strike the ground around trees, posts, monuments, etc. This technique increases line wear.



Scalping

MOWING - Your trimmer is ideal for mowing in places conventional lawn mowers cannot reach. In the mowing position, keep the line parallel to the ground. Avoid pressing the head into the ground as this can scalp the ground and damage the tool.



Mowing

SWEEPING - The fanning action of the rotating line can be used to blow away loose debris from an area. Keep the line parallel to and above the area surface and swing the tool from side to side.



Sweeping

OPERATING INSTRUCTIONS FOR USE WITH WEED BLADE

- **Blade Thrust** is a reaction that only occurs when using a bladed unit. This reaction can cause serious injury such as amputation. Carefully study this section. It is important that you understand what causes blade thrust, how you can reduce the chance of its occurring, and how you can remain in control of unit if blade thrust occurs.
- **WHAT CAUSES BLADE THRUST - Blade Thrust** can occur when the spinning blade contacts an object that it does not cut. This contact causes the blade to stop for an instant and then suddenly move or “thrust” away from the object that was hit. The “thrusting” reaction can be violent enough to cause the operator to be propelled in any direction and lose control of the unit. The uncontrolled unit can cause serious injury if the blade contacts the operator or others.
- **WHEN BLADE THRUST OCCURS - Blade Thrust** can occur without warning if the blade snags, stalls, or binds. This is more likely to occur in areas where it is difficult to see the material being cut. By using the unit properly, the occurrence of blade thrust will be reduced and the operator will be less likely to lose control.



- Cut only grass, weeds, and woody brush up to 13 mm in diameter with the weed blade. Do not let the blade contact material it cannot cut such as stumps, rocks, fences, metal, etc., or clusters of hard, woody brush having a diameter greater than 13 mm.
- Keep the blade sharp. A dull blade is more likely to snag and thrust.
- Cut only at full throttle. The blade will have maximum cutting power and is less likely to bind or stall.
- “Feed” the blade deliberately and not too rapidly. The blade can thrust away if it is fed too rapidly.
- Cut only from your left to your right. Cutting on right side of the shield will throw debris away from the operator.
- Use the shoulder strap and keep a firm grip on the unit with both hands. A properly adjusted shoulder strap will support the weight of the unit, freeing your arms and hands to control and guide the cutting motion.
- Keep feet comfortably spread apart and braced for a possible sudden, rapid thrust of unit. Do not overreach. Keep firm footing and balance.
- Keep blade below waist level; it will be easier to maintain control of unit.
- Do not raise the engine above your waist as the blade can come dangerously close to your body.

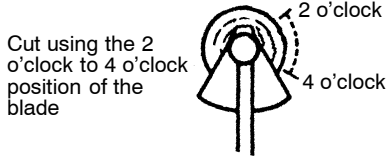
- Do not swing unit with such force that you are in danger of losing your balance. Bring the engine to cutting speed before entering the material to be cut. If the blade does not turn when you squeeze the throttle trigger, make sure tube is fully inserted into the engine.

Always release the throttle trigger and allow engine to return to idle speed when not cutting. The blade should not turn while the engine is running at idle. If the blade turns at idle, do not use your unit. Refer to the CARBURETOR ADJUSTMENT section or contact your authorized service dealer.

- Maintain good firm footing while using the unit. Do this by planting feet firmly in a comfortable apart position.
- Cut while swinging the upper part of your body from left to right.

- As you move forward to the next area to cut, be sure to maintain your balance and footing.

RECOMMENDED CUTTING POSITION



- WARNING:** The operator or others must not try to clear away cut material with the engine running or the blade turning to avoid serious injury. Stop engine and blade before removing materials wrapped around blade or tube.

MAINTENANCE

- WARNING:** Disconnect the spark plug before performing maintenance except for carburetor adjustments.

CHECK FOR LOOSE FASTENERS AND PARTS

- Spark Plug Boot
- Air Filter
- Housing Screws
- Assist Handle Screw
- Debris Shield

CHECK FOR DAMAGED OR WORN PARTS

Contact an [authorized service dealer](#) for replacement of damaged or worn parts.

- ON/STOP Switch - Ensure ON/STOP switch functions properly by pushing and releasing the switch. Make sure engine stops. Wait 5 seconds before attempting to restart unit to allow switch to reset. Restart engine and continue
- Fuel Tank - Discontinue use of unit if fuel tank shows signs of damage or leaks.
- Debris Shield - Discontinue use of unit if debris shield is damaged.

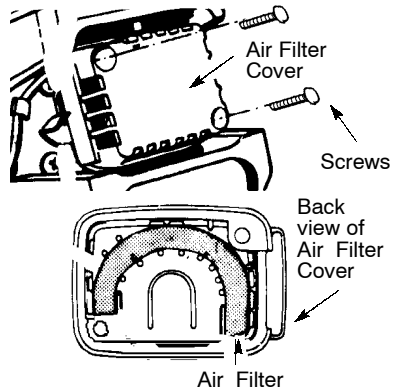
INSPECT AND CLEAN UNIT AND DECALS

- After each use, inspect complete unit for loose or damaged parts. Clean the unit and decals using a damp cloth with a mild detergent.
- Wipe off unit with a clean dry cloth.

CLEAN AIR FILTER

A dirty air filter decreases engine performance and increases fuel consumption and harmful emissions. Always clean after every 5 hours of operation.

1. Clean the cover and the area around it to keep dirt from falling into the carburetor chamber when the cover is removed.
 2. Remove parts as illustrated.
- NOTE:** To avoid creating a fire hazard or producing harmful evaporative emissions, do not clean filter in gasoline or other flammable solvent.
3. Wash the filter in soap and water.
 4. Allow filter to dry.
 5. Add a few drops of oil to the filter; squeeze the filter to distribute oil.
 6. Replace parts.



REPLACE SPARK PLUG

Replace the spark plug each year to ensure the engine starts easier and runs better. Set spark plug gap at 0,6 mm. Ignition timing is fixed and nonadjustable.

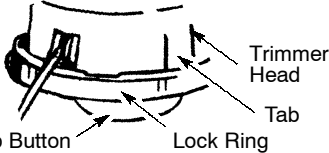
1. Twist, then pull off spark plug boot.
2. Remove spark plug from cylinder and discard.
3. Replace with Champion RCJ-8Y spark plug and tighten securely with a 19 mm socket wrench.
4. Reinstall the spark plug boot.

SERVICE AND ADJUSTMENTS

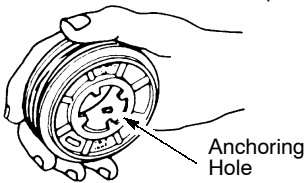
LINE REPLACEMENT

WARNING: Trimmer head parts that are chipped, cracked, broken, or damaged in any other way can fly apart and cause serious injury. Do not use. Replace damaged parts before using unit.

- Press the tab on the side of the trimmer head and twist the lock ring.
- Remove the lock ring and tap button.



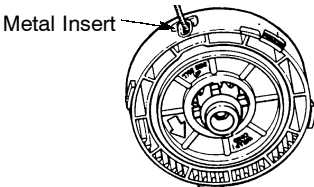
- Pull spool out of the trimmer head.
- Clean dirt and debris from all parts.
- Replace with a pre-wound spool, or replace line using 40 feet of 0.080" (2 mm) diameter line.
- When installing new line on an existing spool, insert 1/16" of the line into the anchoring hole in the bed of the spool, and wrap the line evenly and firmly around the spool in the direction of the arrow found on the spool.



- Insert the end of the line through the exit hole in the side of the trimmer head.

NOTE: A metal insert is located in the exit hole. As your unit wears from use, you can re-install this insert upside down to provide a new surface for the exit of the line from the trimmer head.

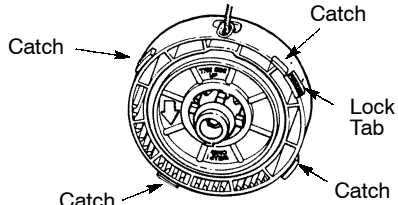
WARNING: When installing the metal insert, you must install from the inside of the trimmer head. If installed on the outside of the trimmer head, this insert can fly off and become a dangerous missile.



- Once line is passed through the exit hole, place spool in the trimmer head. Press the

spool down and turn the spool until it locks down and does not pop up when you release the spool.

- Make sure the line is not caught between the rim of the spool and the wall of the trimmer head.
- Replace the tap button, and place the lock ring onto the trimmer head.
- Align the lock ring over the catches on the trimmer head. Push the ring down and turn until catches lock into place.



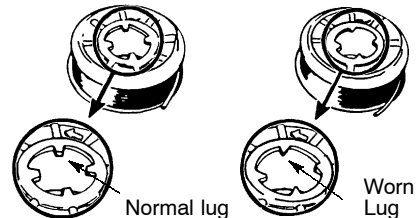
- Make sure the lock ring is securely fastened by pulling on it and twisting in both directions.

WARNING: All catches must be fastened and lock tab latched in the lock ring. If installed incorrectly, lock ring can fly off and become a dangerous missile.

- Pull the line extending from the trimmer head. This will allow the spool to release from the locked position.

SPOOL REPLACEMENT

- Replace the spool when the square corners on the lugs are rounded off, reduced in size, or broken. Follow instructions under LINE REPLACEMENT for removing and installing the spool.



BLADE REPLACEMENT

Refer to the ASSEMBLY section for blade replacement instructions and illustrations.

CARBURETOR ADJUSTMENT

Your carburetor is equipped with limiter caps. Damage will occur if you turn the needles beyond the limiter stops. Carburetor adjustment is a complicated task. We recommend that you take your unit to an authorized service dealer.

STORAGE



WARNING: Perform the following steps after each use:

- Allow engine to cool before storing or transporting.
- Store unit and fuel in a well ventilated area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.
- Store unit with all guards in place. Position unit so that any sharp object cannot accidentally cause injury.
- Store unit and fuel well out of the reach of children.

SEASONAL STORAGE

Prepare unit for storage at end of season or if it will not be used for 30 days or more.

- If your unit is to be stored for a period of time, clean the entire unit before lengthy storage.

ENGINE

- Remove spark plug and pour 1 teaspoon of 40:1, 2-cycle engine oil (air cooled) through the spark plug opening. Slowly pull the starter rope 8 to 10 times to distribute oil.
- Replace spark plug with new one of recommended type and heat range.
- Clean air filter.
- Check entire unit for loose screws, nuts, and bolts. Replace any damaged, broken, or worn parts.
- At the beginning of the next season, use only fresh fuel having the proper gasoline to oil ratio.

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if it starts to rust.

TROUBLESHOOTING TABLE



WARNING: Always stop unit and disconnect spark plug before performing all of the recommended remedies below except remedies that require operation of the unit.

| TROUBLE | CAUSE | REMEDY |
|--|--|---|
| Engine will not start. | <ol style="list-style-type: none"> 1. Engine flooded. 2. Fuel tank empty. 3. Spark plug not firing. 4. Fuel not reaching carburetor. 5. Carburetor requires adjustment. | <ol style="list-style-type: none"> 1. See "Starting a Flooded Engine" in Operation Section. 2. Fill tank with correct fuel mixture. 3. Install new spark plug. 4. Check for dirty fuel filter; replace. Check for kinked or split fuel line; repair or replace. 5. See "Carburetor Adjustment" in Service and Adjustments Section. |
| Engine will not idle properly. | <ol style="list-style-type: none"> 1. Carburetor requires adjustment. 2. Crankshaft seals worn. 3. Compression low. | <ol style="list-style-type: none"> 1. See "Carburetor Adjustment" in Service and Adjustments Section. 2. Contact an authorized service dealer. 3. Contact an authorized service dealer. |
| Engine will not accelerate, lacks power, or dies under a load. | <ol style="list-style-type: none"> 1. Air filter dirty. 2. Spark plug fouled. 3. Carburetor requires adjustment. 4. Carbon build-up on muffler outlet screen. 5. Compression low. | <ol style="list-style-type: none"> 1. Clean or replace air filter. 2. Clean or replace plug and regap. 3. See "Carburetor Adjustment" in Service and Adjustments Section. 4. Contact an authorized service dealer. 5. Contact an authorized service dealer. |
| Engine smokes excessively. | <ol style="list-style-type: none"> 1. Choke partially on. 2. Fuel mixture incorrect. 3. Air filter dirty. 4. Carburetor requires adjustment. | <ol style="list-style-type: none"> 1. Adjust choke. 2. Empty fuel tank and refill with correct fuel mixture. 3. Clean or replace air filter. 4. See "Carburetor Adjustment" in Service and Adjustments Section. |
| Engine runs hot. | <ol style="list-style-type: none"> 1. Fuel mixture incorrect. 2. Spark plug incorrect. 3. Carburetor requires adjustment. 4. Carbon build-up on muffler outlet screen. | <ol style="list-style-type: none"> 1. See "Fueling Engine" in Operation section. 2. Replace with correct spark plug. 3. See "Carburetor Adjustment" in Service and Adjustments Section. 4. Contact an authorized service dealer. |

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