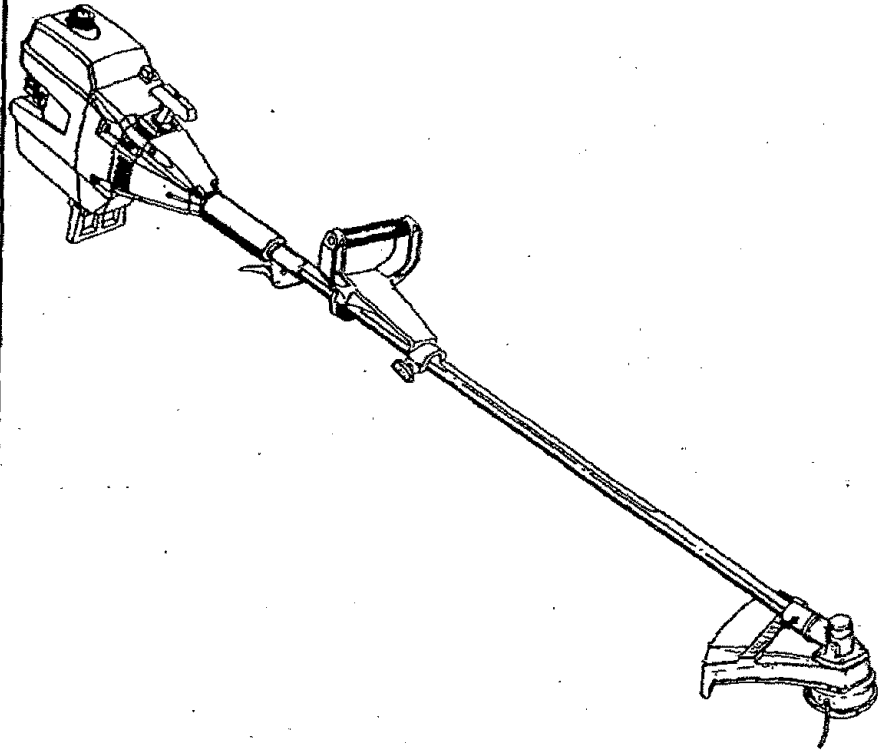


IMPORTANT MANUAL

Do Not Throw Away

SEARS
Operator's
Manual

MODEL NO.
358.797161.32cc
(18" Cutting Path)



Always Wear Eye Protection During Operation

SEARS / CRAFTSMAN®

32cc GAS WEEDWACKER®

▲ WARNING:
Read the Operator's Manual
and Follow All Warnings
and Safety Instructions.
Failure To Do So Can Result
in Serious Injury.

2 Cycle Engine

Fuel Mix 40:1

• Assembly

• Maintenance

• Operation

• Repair Parts

Sold by Sears, Roebuck and Co., Chicago, IL 60684 U.S.A.

ONE YEAR LIMITED WARRANTY ON CRAFTSMAN WEEDWACKER™

For One Year from date of purchase, when this Weedwacker™ is maintained, lubricated, and tuned up according to the operating and maintenance instructions in the operator's manual. Sears will repair free of charge any defect in material or workmanship.

This warranty excludes nylon line, spark plug, and air cleaner which are expendable parts and become worn during normal use.

If the Weedwacker™ is used for commercial or rental purposes, this warranty does not apply.

WARRANTY SERVICE IS AVAILABLE BY CONTACTING THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES. This warranty applies only while this product is in use in the United States.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

SEARS, ROEBUCK AND CO. DEPT. D/817WA HOFFMAN ESTATES, IL 60179

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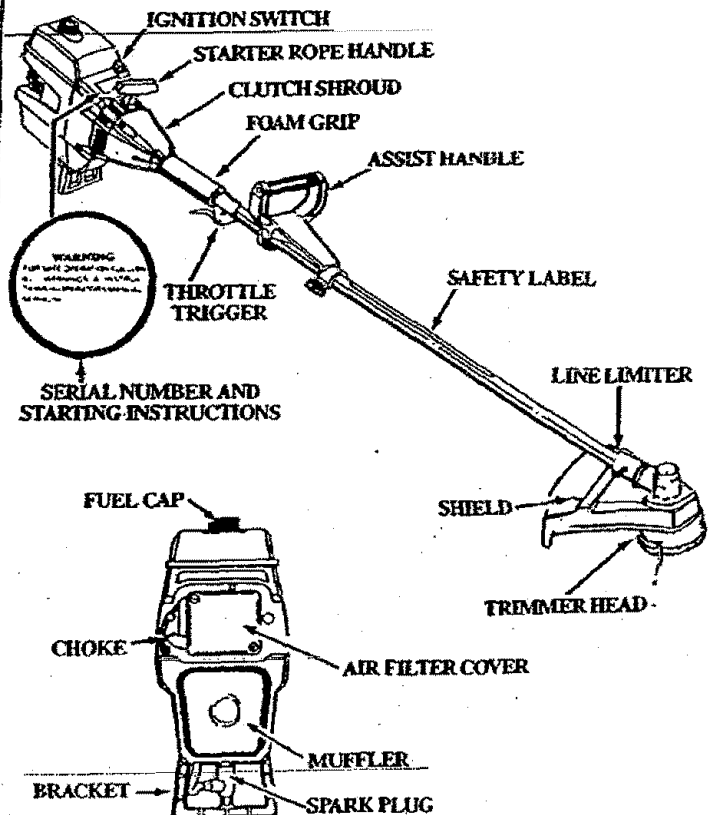
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SPECIFICATIONS

ENGINE TYPE:	2-Cycle, Air-Cooled
DISPLACEMENT:	28cc
ENGINE RPM:	Operating — 7500 Idle — 2800 - 3200
IGNITION:	Solid State
CARBURETOR:	Diaphragm All Positions with adjustable fuel mixture jets
ENGINE "OFF":	Positive Switch
STARTER:	Auto Rewind
MUFFLER:	Temperature Limiting (not spark arresting; see Notice, p.6)
CLUTCH:	Centrifugal
FUEL TANK:	17 fl. oz.
SPARK PLUG:	71-85854 (CJ-14)
SPARK PLUG GAP:	.025"
MODULE AIR GAP:	.010" / .014"
LUBRICATION:	Gasoline/Oil Mixture - 40:1 (See "Fueling Your Engine")
CUTTING LINE:	.080" Diameter Sears Laser Line®
SHAFT LENGTH:	52"

NOTE: LASER LINE® IS A REGISTERED TRADEMARK OF WHITE CONSOLIDATED INDUSTRIES, INC.

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 3,708,967; 3,826,068; 3,859,776; 4,035,912; 4,052,789; 4,054,992; 4,067,808; 4,104,797; 4,114,269; 4,124,938; 4,156,312; 4,156,967; 4,161,820; 4,167,812; 4,269,675; DES.249,630; DES.255,764; DES.260,394. U.S. AND FOREIGN PATENTS PENDING.



⚠ WARNINGS AND SAFETY INSTRUCTIONS

⚠ WARNING — THIS POWER TOOL CAN BE DANGEROUS!

This tool can cause serious injury 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 this tool. The operator is responsible for following the warnings and instructions in this manual and on the tool. Read the entire Operator's Manual before assembling and using this tool! Restrict the use of this power tool to persons who read, understand, and follow the warnings and instructions in this manual and on the tool.



⚠ DANGER

NEVER USE BLADES WITH THIS TOOL.

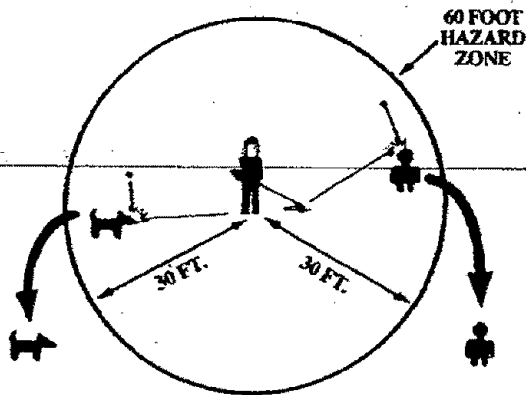
- THE BLADE CAN COME OFF AND SERIOUSLY INJURE YOU AND OTHERS.
- THIS TOOL IS DESIGNED FOR LINE TRIMMER USE ONLY.



⚠ WARNING

THE TRIMMER LINE CAN THROW OBJECTS VIOLENTLY.

- YOU CAN BE BLINDED OR INJURED.
- WEAR EYE AND LEG PROTECTION.



⚠ WARNING

HAZARD ZONE FOR THROWN OBJECTS.

- THE TRIMMER LINE CAN THROW OBJECTS VIOLENTLY.
- OTHERS CAN BE BLINDED OR INJURED.
- KEEP PEOPLE AND ANIMALS 30 FEET AWAY.



OPERATOR'S MANUAL



SAFETY LABEL

⚠ WARNING

READ OPERATOR'S MANUAL.

- FOLLOW ALL WARNINGS AND INSTRUCTIONS.
- FAILURE TO DO SO CAN RESULT IN SERIOUS INJURY.

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 wrists 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 wrists, 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.

▲ WARNINGS AND SAFETY INSTRUCTIONS (Continued)

▲ OPERATOR SAFETY

1. Always wear a safety face shield or safety goggles. See "Accessories."
2. Keep hair, fingers, and all other parts of the body away from openings and moving parts. Always wear heavy, long pants, boots, and gloves. Do not go barefoot or wear sandals, jewelry, short pants, loose clothing, or clothing with loosely hanging straps, ties, tassels, etc. Secure hair so it is above shoulder length. Being fully covered will help protect you from pieces of toxic plants such as poison ivy thrown by the Trimmer Head, which could be more of a hazard than touching the plant itself.
3. Do not operate this tool when you are tired, ill, or under the influence of alcohol, drugs, or medication.
4. Always use the assist handle. See "Assembly."
5. Wear hearing protection if you use this tool for more than 1½ hours per day.
6. Never start or run the engine inside a closed room or building. Breathing exhaust fumes can kill.
7. Keep handles free of oil and fuel.

▲ TOOL SAFETY

1. Inspect entire tool before each use. Replace damaged parts. Check for fuel leaks and make sure all fasteners are in place and securely fastened.
2. Replace trimmer head parts that are cracked, chipped, broken, or damaged in any other way before using the tool.
3. Use only .080" diameter Sears Laser Line. Never use wire, rope, string, etc.
4. Be sure the shield is properly attached.
5. Use only the specified trimmer head. See "Specifications." Make sure the trimmer head is properly installed and fastened. Refer to "Assembly."
6. Be sure the trimmer head stops turning when engine idles. See "Carburetor Adjustments."
7. Make carburetor adjustments with the drive shaft housing supported to prevent the trimmer line from contacting any object. Hold the tool by hand; do not use the optional shoulder strap for support.
8. Keep others away when making carburetor adjustments.
9. Use only accessories or attachments as recommended for this tool by Sears.

▲ FUEL SAFETY

1. Mix and pour fuel outdoors and where there are no sparks or flames.
2. Use a container approved for fuel.
3. Do not smoke or allow smoking near fuel or the tool or while using the tool.
4. Wipe up all fuel spills before starting engine.
5. Move at least 10 feet away from fueling site before starting engine.
6. Stop engine before removing fuel cap.
7. Run fuel out of the fuel tank before storing the tool.
8. Store tool and fuel in an area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.

▲ CUTTING SAFETY

1. 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 trimmer head.
2. Keep others including children, animals, bystanders, and helpers outside the 60 foot Hazard Zone. Stop the engine immediately if you are approached.
3. Always keep the engine on the right side of your body.
4. Hold the tool firmly with both hands.
5. Keep firm footing and balance. Do not over-reach.
6. Keep trimmer head below waist level.
7. Do not raise the engine above your waist. The trimmer head can come dangerously close to your body.
8. Keep all parts of your body away from the trimmer head and muffler when the engine is running.
9. Use only for jobs explained in this manual.

▲ MAINTENANCE SAFETY

1. Maintain the tool according to recommended procedures. Keep the trimmer line at the proper length.
2. Never start the engine with the clutch shroud removed. The clutch can fly apart and cause serious injury.
3. Disconnect the spark plug before performing maintenance except for carburetor adjustments.
4. Make carburetor adjustments with the drive shaft housing supported to prevent the trimmer line from contacting any object. Hold the tool by hand; do not use the optional shoulder strap for support.
5. Keep others away when making carburetor adjustments.
6. Use only genuine replacement parts as recommended by Sears.

▲ TRANSPORTING AND STORAGE

1. Hand carry the tool with the engine stopped and the muffler away from your body.
2. Allow the engine to cool, empty the fuel tank, and secure the tool before transporting in a vehicle or storing.
3. Before storing the tool, use up fuel left in the carburetor by starting the engine and letting the engine run until it stops.
4. Store tool and fuel in an area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.
5. Store the tool so the line limiter cannot accidentally cause injury. The tool can be hung by the drive shaft housing or by the bracket below the engine.
6. Store tool out of reach of children.

If situations occur which are not covered in this manual, use care and good judgement. Contact your Sears Service Center/Department if you need assistance.

KNOW YOUR TRIMMER

A. INTRODUCTION

Your Trimmer is a versatile product designed to help you give your lawn a finished appearance.

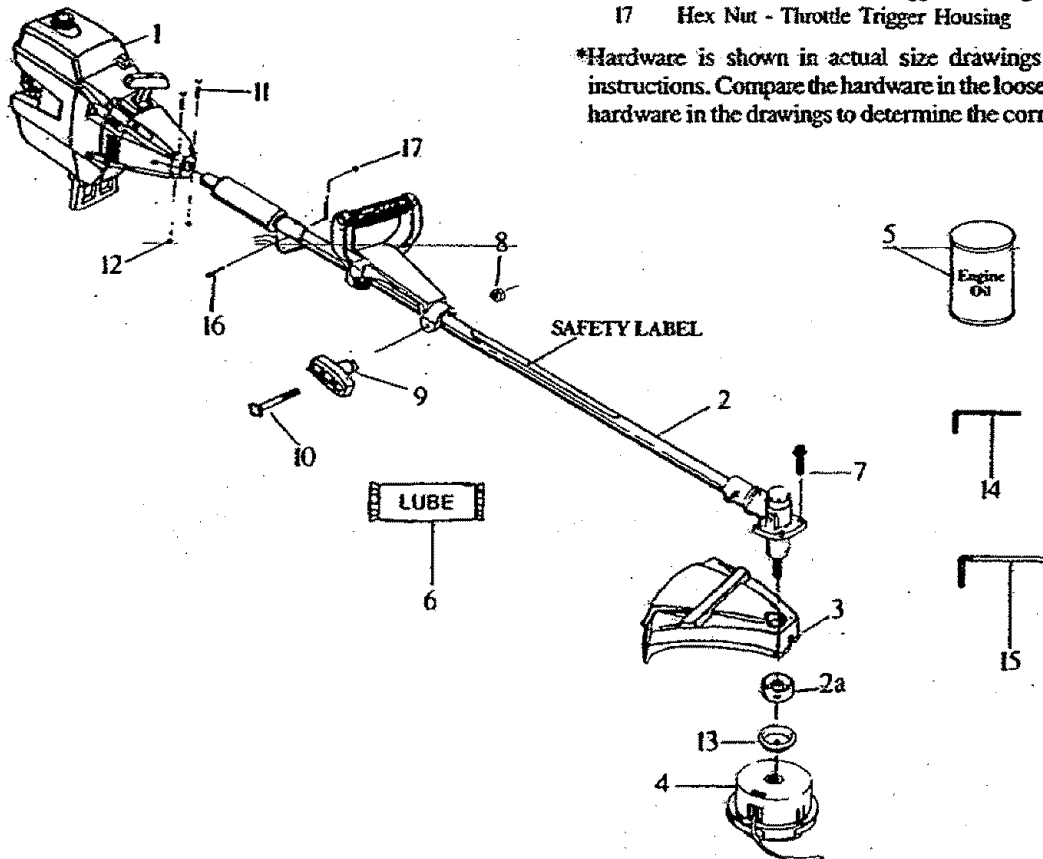
Special Features Include:

- Centrifugal Clutch
- All-position Carburetor
- Adjustable, anti-vibe, cushioned Assist Handle
- Automatic Line Feed
- 18" Cutting Path

B. UNPACKING INSTRUCTIONS

1. Remove contents from the carton if you have not done so.
2. Check parts against the list below.
3. Examine parts for damage. Do not use damaged parts.
4. *Notify your Sears Store immediately if a part is missing or damaged.*

NOTE: It is normal to hear the fuel filter rattle in an empty fuel tank.



C. CARTON CONTENTS

KEY NO.	CARTON CONTENTS:	QTY.
1	Engine	1
2	Drive Shaft/Gear Box Assembly w/Safety Label includes Dust Cup (2a)	1
3	Shield	1
4	Trimmer Head	1
5	2-cycle Engine Oil	1
—	Operator's Manual (Not Shown)	1
—	Loose Parts Bag (Not Shown)	1
* LOOSE PARTS BAG CONTENTS:		
6	Flex Shaft Lube	1
7	Slotted Hex Head Screw - Shield	4
8	Hex Nut, Assist Handle	1
9	T-Handle - Assist Handle	1
10	Square Head Screw - Assist Handle	1
11	Hex Socket Head Screw, Clutch Shroud	2
12	Hex Lock-Nut-Clutch Shroud	2
13	Large Cup Washer	1
14	Hex Wrench-Small	1
15	Hex Wrench-Large	1
16	Hex Screw - Throttle Trigger Housing	1
17	Hex Nut - Throttle Trigger Housing	1

*Hardware is shown in actual size drawings in the assembly instructions. Compare the hardware in the loose parts bag with the hardware in the drawings to determine the correct part to use.

SPECIAL NOTICE

For users on U.S. Forest Land and in some states, including California (Public Resources Codes 4442 and 4443), Idaho, Maine, Minnesota, New Jersey, Oregon, and Washington: Certain internal combustion engines operated on forest, brush, and/or grass-covered lands, in the above areas, must be equipped with a spark arrestor, maintained in effective working order, or the engine must be constructed, equipped, and maintained for the prevention of fire. Check with your state or local authorities for regulations pertaining to these requirements. Failure to follow these requirements is a violation of the law. This unit is not factory-equipped with a spark arrestor; however, a spark arrestor is available as an optional part. If a spark arrestor is required in your area, order Part #952-701612 from your Sears Service Center/Department.

ASSEMBLY (If tool is received assembled, repeat all steps in this section to be sure assembly is correct and is adjusted for the operator.)

A. PREPARATION

This Operator's Manual has been developed to help you assemble the tool and to provide its safe operation. It is important that you read the entire manual to become familiar with the tool before you begin assembly.

1. READ YOUR OPERATOR'S MANUAL

2. Tools you will need:

Hex Wrenches provided with tool

B. ASSEMBLY STEPS

1. DRIVESHAFT HOUSING – Figure 1

- Place the two Screws (from the loose parts bag) into the holes on the Clutch Shroud as shown in Figure 1.
- Position the Lock-Nuts (from the loose parts bag) in the hex openings in the Clutch Shroud.
- Tighten the Screws with the small hex wrench provided just enough to hold the hardware together while holding the Lock-Nuts with your other hand.

NOTE: Dirt on the Shaft will significantly reduce the life of the tool. If the Flexible Drive Shaft falls out of the Housing, clean, relube, then reinstall. See "Flexible Drive Shaft Lubrication" in the Maintenance section.

- Remove the shipping cap from the straight end of the Drive Shaft Housing. Make sure the Flexible Drive Shaft does not fall out of the Drive Shaft Housing.
- Turn Handle around and position the Drive Shaft Housing with the Arbor Shaft down as shown in Figure 1.
- Align the groove on the Drive Shaft Housing with the Ridge on the inner lower wall of the Clutch Shroud opening.
- Turn the Arbor Shaft as necessary to align the square end of the Flexible Drive Shaft with the square inside the Clutch Shroud opening.
- Firmly push the Drive Shaft Housing into the Clutch Shroud until it contacts the Foam Grip or is within 1/8 inch. Figure 1.
- Tighten the Screws alternately with the small hex wrench until secure.

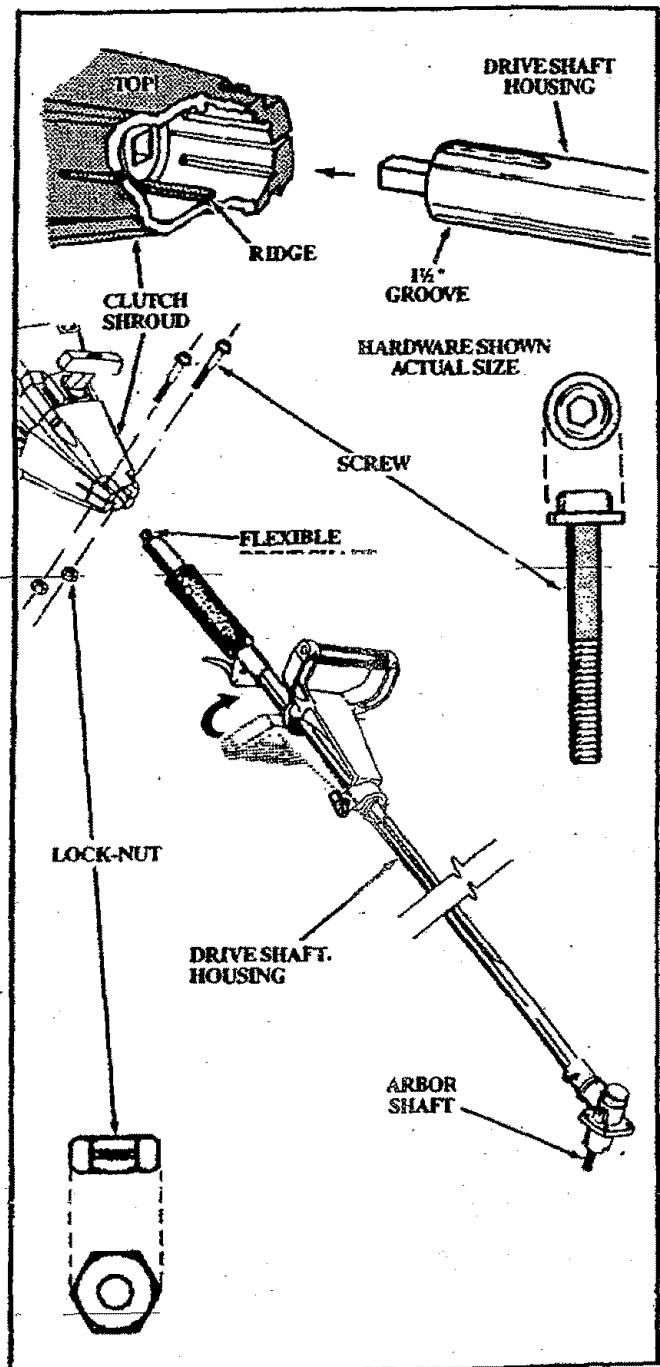


Figure 1

2. THROTTLE CABLE — Figures 2, 3, 4 & 5

CAUTION: Do not kink the throttle cable.

- Slide the Throttle Trigger Housing away from the Foam Grip.

NOTE: Before performing step "b", push the barrel end of the throttle cable into the sheath until the barrel contacts the sheath. Figure 2 (inset).

- Insert the Throttle Cable through the tunnel in the Foam Grip until the end of the Cable extends at least 2 inches beyond the Grip. Figure 2.

- Hold the Trigger away from the Drive Shaft Housing and insert the barrel end of the Throttle Cable into the round opening in the Trigger. Figure 2.

NOTE: When inserting the barrel end of the Throttle Cable into the round opening in the Trigger, make sure that the barrel is completely inserted and the Throttle Cable is located in the split in the Arm. Figure 4.

- Push the Trigger back into the Housing while guiding the Cable through the split in the arm. (Figure 3.) Guide the arm into the Foam Grip tunnel while replacing the Throttle Trigger Housing flush against the Grip.

- Hold trigger against the foam grip while inserting the screw and nut. Do not install the screw unless the trigger is in the full throttle position.

CAUTION: Do not overtighten screw. There must be at least 1/8" free play in the trigger. Figure 5. Make sure trigger will move freely so the trimmer can fully return to idle when the trigger is released. The trimmer head must not turn at idle speed to avoid serious injury to the operator and others.

3. ASSIST HANDLE — Figures 6 & 7

- Be sure the Handle is positioned between the Safety Label and the Throttle Trigger. Figure 6.

- Push the lower end of the Assist Handle onto the Drive Shaft Housing.

- Drop the threaded end of the square-head Screw through the opening in the top of the T-Handle. Figure 7.

- Pull on the threaded end of the Screw to bring the square head of the Screw past the pin inside the T-Handle. Figure 6.

- Push the Nut into the hex opening in the Assist Handle and install the T-Handle into the round opening. Figure 6.

- Tighten the T-Handle firmly by hand *only*.

4. SHIELD — Figure 8

▲ WARNING

Failure to install the shield in the position shown in Figures 8 and 9 can result in serious injury to the operator. The length of the shield must be aligned with the length of the drive shaft housing. Direct the widest part of the shield toward the engine.

CAUTION: The line limiter (on the underside of the shield) is sharp and can cut you.

- Remove the packing cover and Dust Cup from the Arbor Shaft. Figure 8.
- Place the Shield on the Gear Box, aligning screw holes. Figure 8. Make sure the Shield is directed

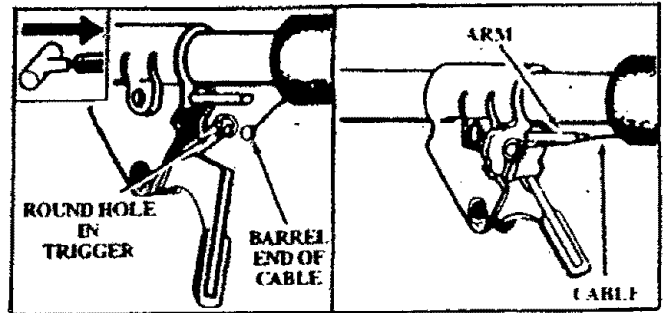


Figure 2

Figure 3

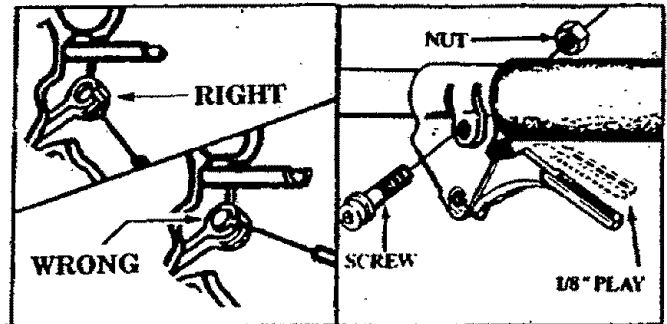


Figure 4

Figure 5

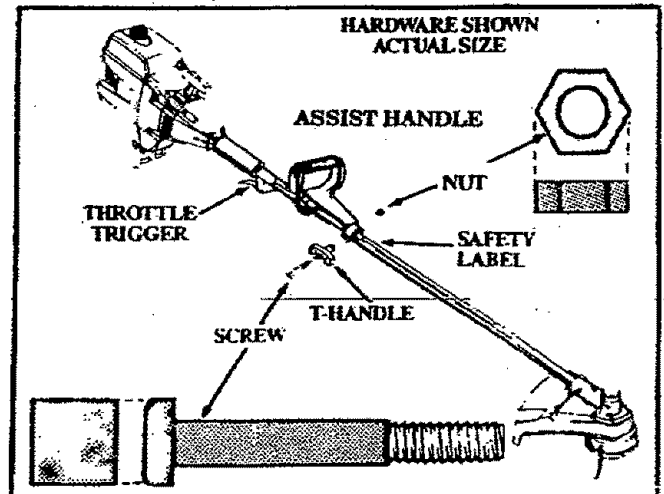


Figure 6

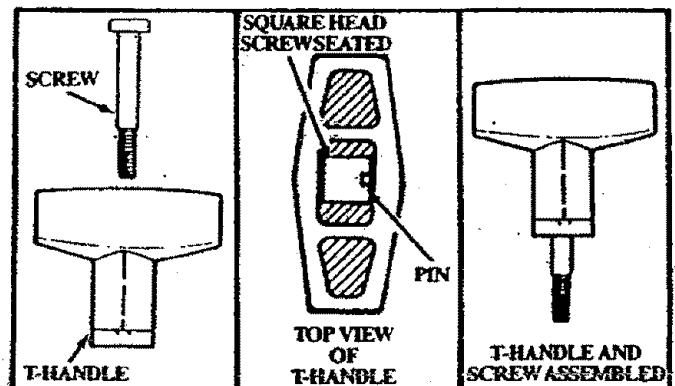


Figure 7

toward the Engine and is centered under the Gear Box Clamp:

- Insert the four Screws (one at a time) through the Gear Box into the Shield.
- Tighten the Screws alternately with a standard screwdriver.

5. TRIMMER HEAD — Figure 8

NOTE: The Arbor Shaft has left hand threads.

- a. Reinstall the Dust Cup matching the notches on the Dust Cup with the splines on the Arbor Shaft.
- b. Install the Grass Washer over the Arbor Shaft. Make sure the Washer is against and curved over the Dust Cup. Figure 8.
- c. Thread the Trimmer Head onto the Arbor Shaft as shown in Figure 8.
- d. Line up the hole in the Dust Cup with the hole in the center front of the Gear Box by turning the Trimmer Head. Insert the small hex wrench into the aligned holes to keep the Arbor Shaft from turning. See Inset, Figure 8. (inset, upper left).
- e. Tighten the Trimmer Head against the Large Cup Washer and Dust Cup while holding the hex wrench.
- f. Remove the Hex Wrench.

NOTE: To remove the Trimmer Head, insert the hex wrench into aligned holes in the Dust Cup and Gear Box. Unthread the Trimmer Head.

6. OPERATING POSITION — Figure 9

- a. Before starting the Engine, stand as shown in Figure 9 and check for the following
 - 1.) Right arm fully extended, hand holding the Foam Grip, fingers on Throttle Trigger.
 - 2.) Left arm fully extended, hand holding the Assist Handle.
 - 3.) Engine below waist level.
 - 4.) Weight of tool evenly distributed between arms.
 - 5.) Without operator bending over, the Trimmer Head is near and parallel to the ground and easily contacts the material to be cut.
- b. Adjust the Assist Handle up or down the Drive Shaft Housing (*but above the Safety Label*) to a comfortable position.
 - 1.) Loosen the T-Handle by hand, adjust Assist Handle. Retighten T-Handle by hand *only*.
 - 2.) Rotate the Assist Handle left or right when it is desirable to tilt the angle of the Trimmer Head for cutting a large, sloped area such as a ditch bank.

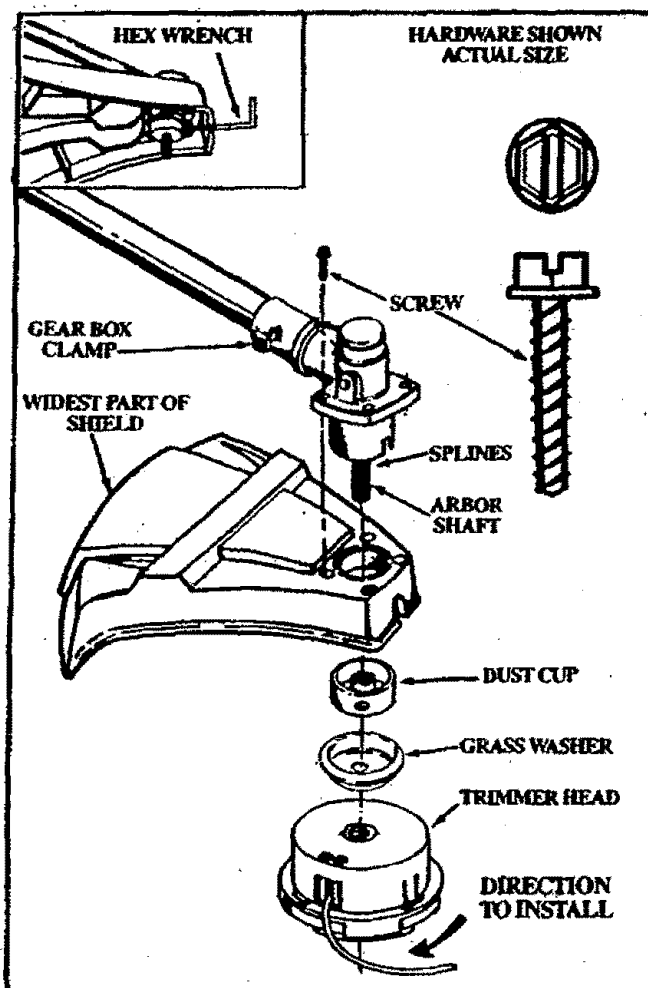


Figure 8

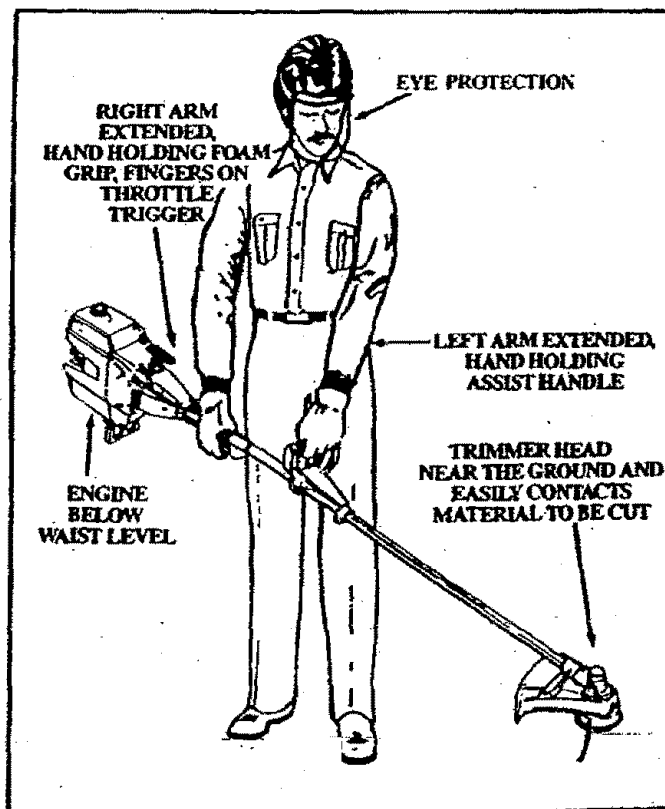


Figure 9

ACCESSORIES

The following accessories are available through Sears Retail Stores, Catalog Outlets, or Service Centers.

ITEM	STOCK NO.
Safety Face Shield.....	9-18613
Safety Goggles.....	9-1859
2-Cycle Engine Oil.....	71-30143
Spark Plug.....	71-85854
Replacement Trimmer Head (available only through Sears Service Centers).....	530-094604
Replacement Nylon Trimmer Line	
— 400 ft.....	71-85778
— 200 ft.....	71-85608
— 100 ft.....	71-85771
Replacement Spool with Line.....	71-85815
Shoulder Strap Kit.....	71-85783
Spark Arrestor Kit.....	952-701612*
Flex Shaft Lube.....	530-030102*
Operator's Manual.....	530-067877*

*Available through your SEARS Service Center/Catalogue.

G. STORAGE

WARNING

It is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel filter, fuel hose, or fuel tank during storage. 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.

1. Allow the engine to cool, empty the fuel system, and secure the tool before transporting or storing.
2. Before storing the tool, use up fuel left in the fuel lines and carburetor by starting the engine and letting it run until it stops.

NOTE: If you do not want to remove the gasoline from your unit, SEARS CRAFTSMAN Fuel Stabilizer (#71-33500) may be added to 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 to the tank.

ALWAYS FOLLOW INSTRUCTIONS ON THE STABILIZER CONTAINER. THEN, RUN THE ENGINE AT LEAST 10 MINUTES AFTER STABILIZER IS ADDED TO ALLOW MIXTURE TO REACH CARBURETOR. STORE UNIT IN A SAFE PLACE. SEE STEPS 3-5 (this section).

3. Store tool and fuel in an area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.
4. Store the tool so the line limiter cannot accidentally cause injury. The tool can be hung by the drive shaft housing.
5. Store tool out of reach of children.

ENGINE INFORMATION

A. FUELING YOUR ENGINE

1. FUEL SAFETY

- a. Use only recommended fuel mixtures.
- b. Mix and pour fuel outdoors and where there are no sparks or flames.
- c. Use a container approved for fuel.
- d. Do not smoke or allow smoking near fuel or the unit or while using the unit.
- e. Wipe up all fuel spills before starting the engine.
- f. Move at least 10 feet (3 meters) away from fueling site before starting engine.
- g. Stop engine before removing fuel cap. Allow engine to cool before refueling.
- h. Before storing the unit, use up fuel left in the fuel lines and carburetor by starting the engine and letting it run until it stops.
- i. Store unit and fuel in an area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.

2. FUEL MIXTURE

- a. Your unit is powered by a 2-cycle engine which requires a fuel mixture of regular unleaded gasoline and a high quality engine oil specially made for 2-cycle, air-cooled engines. The internal design of the 2-cycle engine requires lubrication of moving parts. Lubrication is provided when the recommended mixture of gasoline and oil is used.
- b. Genuine Sears 40:1, 2-cycle engine oil is strongly recommended for the protection of your unit. Extensive engineering tests have proven that Sears 2-cycle engine oil resists break-down at operating temperatures common to 2-cycle engines, resulting in dependable performance and longer engine life.
- c. Gasoline must be clean and not over two months old. After a short period of time, gasoline will chemically break down and form compounds that cause hard starting and damage in 2-cycle engines.
- d. The correct measure of gasoline to oil is very important. Too much oil in the mixture will foul the spark plug.

CAUTION: Too little oil or incorrect oil will cause engine to overheat and seize.

- e. Always mix the fuel thoroughly in a container since gasoline and oil do not readily combine. Do not mix gasoline and oil directly in the fuel tank.

3. USE THE FOLLOWING:

SEARS CRAFTSMAN 2-cycle engine oil mixed at 40:1 is strongly recommended. Consult the instructions on oil container for proper mixing.

1 PART OIL TO 40 PARTS GASOLINE=
3.2 fl. oz. oil to 1 gallon gasoline
8.0 fl. oz. oil to 2.5 gallon gasoline

Not all air cooled 2-cycle engine oils have the same qualities. If SEARS CRAFTSMAN 2-cycle engine oil is not available, use a good quality, 2-cycle engine oil recommended for air-cooled engines. Mix at a ratio of 16:1 (8 oz. oil to 1 gallon gasoline). A 16:1 fuel mixture with these oils will assure adequate lubrication for your engine.

4. DO NOT USE:

- **NMMA Oil**--National Marine Manufacturers Association (formerly BIA oil)--
Does not have proper additives for air-cooled, 2-cycle engines and can cause engine damage.
- **AUTOMOTIVE OIL**--
Does not have proper additives for air-cooled, 2-cycle engines and can cause engine damage.

▲ CAUTION

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, do not leave fuel in the unit when storing for 30 days or longer. Start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See the "Storage" section for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage can occur.

5. HOW TO MIX FUEL AND FILL TANK

- a. Pour the proper measure of engine oil into an approved, marked container. Then, fill the container with regular unleaded gasoline.

NOTE: If fuel is already in the container, add the proper measure of engine oil. Then, close the container tightly and shake it momentarily.

NOTE: Do not mix gasoline and oil directly in the fuel tank.

- b. Using a spout or funnel, fill the fuel tank with fuel mix.
- c. Reinstall the fuel caps securely.

B. PRE-OPERATION CHECKS

⚠ WARNING

Review all Warnings and Safety Instructions in this manual.

Before operating your tool, always:

1. Inspect the entire tool before each use. Replace damaged parts. Check for fuel leaks and make sure all fasteners are in place and securely fastened.
2. Replace trimmer head parts that are cracked, chipped, broken, or damaged in any other way before using this tool.
3. Use only .080" diameter Sears Laser Line. Never use wire, rope, string, etc.
4. Use only with the shield properly attached.
5. Use only the specified trimmer head. See "Specifications." Make sure the trimmer head is properly installed and securely fastened. Refer to "Assembly."
6. Be sure trimmer head stops turning when engine idles. See "Carburetor Adjustments."
7. Make carburetor adjustments with the drive shaft housing supported to prevent the trimmer line from contacting any object. Hold the tool by hand; do not use the optional shoulder strap for support.
8. Keep others away when making carburetor adjustments.
9. Use only accessories or attachments as recommended by Sears for this tool.
10. Clean the air filter if dirty before operating the tool. Refer to "Specifications," for air filter location.

C. STARTING INSTRUCTIONS (For location of controls, refer to "Specifications.")

1. Before starting the engine.

- a. Fuel engine. Move 10 feet away from fueling site.
- b. Extend 4-6 inches of Line from Trimmer Head to provide adequate load on the engine.

⚠ WARNING

The trimmer head will turn as soon as the engine starts.

- c. Rest Engine and Shield on ground, supporting Trimmer Head off the ground away from trees, bushes, onlookers, etc. Figure 10.
- d. If using optional Shoulder Strap, place Shoulder Strap on your shoulder. Start engine before clipping Shoulder Strap to the tool.

2. For a Cold Engine:

- a. Move On/Off Switch to "on." Figure 11.
- b. Move Choke to "full" position. Figure 12.
- c. Grasp Foam Grip and squeeze Throttle Trigger fully. *Keep Throttle Trigger fully squeezed until engine runs smoothly (through step "g").*
- d. Pull Starter Rope sharply until engine attempts to run, but no more than 8 pulls at full choke to avoid flooding the engine. *The engine "attempt to run" may be hard to hear. The operator must listen carefully. After 8 pulls, proceed to step "e." even if engine has not attempted to run.*
- e. Move Choke to "half" position. Figure 12.
- f. Pull Starter Rope sharply until engine attempts to run, but no more than 5 pulls.
NOTE: If engine has not started after 5 pulls, repeat steps "a" through "f."
- g. Allow engine to run 5 seconds, then move Choke to "off" position. Figure 12. *Keep Throttle Trigger fully squeezed until engine runs smoothly.*
NOTE: If engine dies with Choke at "off" position, repeat steps "e" through "g."

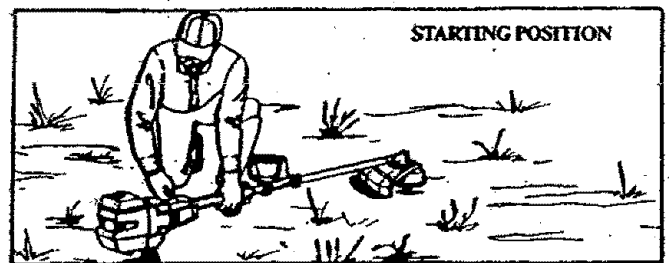


Figure 10

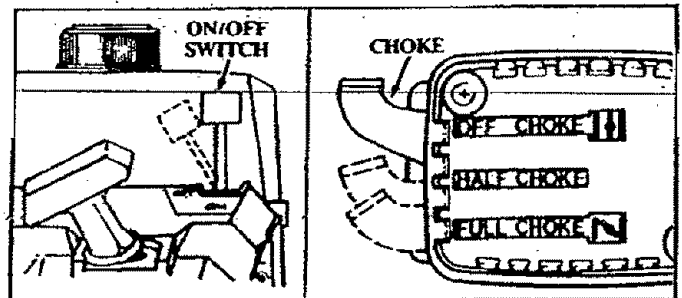


Figure 11

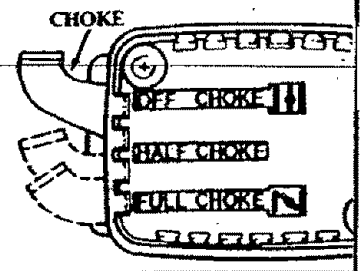


Figure 12

⚠ WARNING

Avoid any bodily contact with the muffler when starting a warm engine. A hot muffler can cause serious burns.

3. For a Warm Engine:

- a. Move On/Off Switch to "on." Figure 11.
- b. Move Choke to "half" position. Figure 12.
- c. Grasp Foam Grip and squeeze Throttle Trigger fully. *Keep Throttle Trigger fully squeezed until engine runs.*
- d. Pull Starter Rope sharply until engine runs, but no more than 5 pulls.
NOTE: If engine does not run after 5 pulls, it is probably flooded. Wait a few minutes and repeat procedure with Choke at "off" position. Figure 12.
- e. Move Choke to "off" position. Figure 12. *Keep Throttle Trigger fully squeezed until engine runs smoothly.*

4. For a Warm Engine (After Running Out of Fuel):

- Refuel engine. Move 10 feet away from fueling site.
- Move On/Off Switch to "on." Figure 11.
- Move Choke to "full" position. Figure 12.
- Grasp Foam Grip and squeeze Throttle Trigger fully. *Keep Throttle Trigger fully squeezed until engine runs.*
- Pull Starter Rope sharply until engine attempts to run, but no more than 5 pulls.

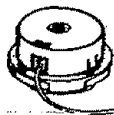
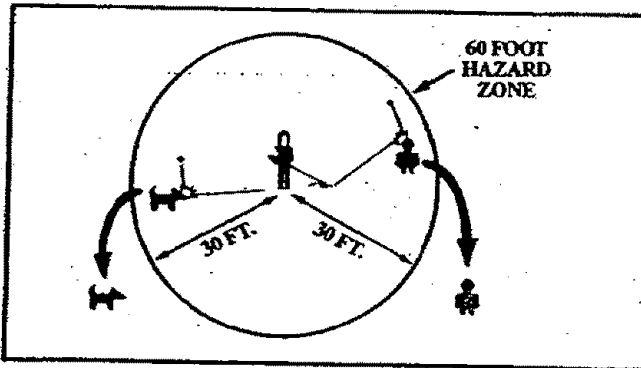
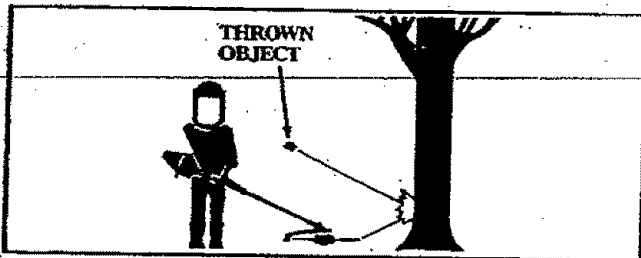
- Move Choke to "off" position. Figure 12.
- Pull Starter Rope until engine runs, but no more than 5 pulls. *Keep Trigger fully squeezed until engine runs smoothly.*

NOTE: If engine has not started, pull Starter Rope 5 more pulls. If engine still does not run, it is probably flooded. Wait a few minutes and repeat procedure with Choke at "off" position. Figure 12.

D. OPERATING INSTRUCTIONS

- Before entering the material to be cut, bring the engine to cutting speed by squeezing the throttle trigger.
 - 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 trimmer line will last longer and will be less likely to "weld" onto the spool.
 - If the Trimmer Head does not turn when the engine is accelerated, make sure the Drive Shaft Housing is properly seated in the Clutch Shroud. Refer to "Assembly-Drive Shaft Housing."
- Always release the Throttle Trigger and allow the engine to return to idle speed when not cutting.
- Make sure the Trimmer Head stops turning when the Throttle Trigger is released and the engine runs at idle speed. For correction refer to "Carburetor Adjustments."
- To stop the engine:
 - Release the Throttle Trigger.
 - Move On/Off Switch to the "Off" position. Figure 11.

USING YOUR TRIMMER



Trimmer Head
Use Only Genuine Replacements Parts

▲ WARNING — THROWS OBJECTS

The rapidly moving line causes objects to be thrown violently. The shield will not provide complete protection to the operator or others. The operator must wear a safety face shield or goggles. Always wear heavy, long pants and boots. Keep others at least 30 feet away.

▲ WARNING — HAZARD ZONE

This tool will throw objects and cut. Keep others including children, animals, bystanders, and helpers at least 30 feet away from the operator and tool. Stop the engine if you are approached.

▲ WARNING — DAMAGED TRIMMER HEAD

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

A. LINE TRIMMER SAFETY

1. OPERATOR

- a. Always wear a safety face shield or goggles. See "Accessories."
- b. Keep hair, fingers, and all other parts of the body away from openings and moving parts. Always wear heavy, long pants, boots, and gloves. Do not go barefoot or wear sandals, jewelry, short pants, loose clothing, or clothing with loosely hanging straps, ties, tassels, etc. Secure hair so it is above shoulder length. Being fully covered will help protect you from pieces of toxic plants (such as poison ivy) thrown by the Trimmer Head, which could be more of a hazard than touching the plant itself.
- c. Do not operate this tool when you are tired, ill, or under the influence of alcohol, drugs, or medication.
- d. Do not swing the unit with such force that you are in danger of losing your balance.
- e. Never start or run the engine inside a closed room or building. Breathing exhaust fumes can kill.
- f. Keep handles free of oil and fuel.

2. TOOL

- a. Inspect the entire tool before each use. Replace damaged parts. Check for fuel leaks and make sure all fasteners are in place and securely fastened.
- b. Use only .080" diameter Sears Laser Line. Never use wire, string, rope, etc.
- c. Be sure the shield is properly attached.

- d. Make sure the trimmer head is properly installed and securely fastened. Refer to "Assembly."
- e. Be sure the trimmer head stops turning when the engine idles. See "Carburetor Adjustments."
- f. Make carburetor adjustments with the drive shaft housing supported to prevent the trimmer line from contacting any object. Hold the tool with your hand; do not use the optional shoulder strap for support.
- g. Keep others away when making carburetor adjustments.
- h. Use only accessories or attachments as recommended for this tool by Sears.

3. CUTTING

- a. 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 trimmer head.
- b. Always keep the engine on the right side of your body.
- c. Hold the tool firmly with both hands.
- d. Keep firm footing and balance. Do not over-reach.
- e. Keep the trimmer head below waist level.
- f. Do not raise the engine above your waist.
- g. Keep all parts of your body away from the trimmer line and muffler when the engine is running.
- h. Use only for jobs explained in this manual.

B. AUTOMATIC LINE ADVANCE

- The trimmer line advances automatically as the line wears and reduces the cutting path.
- The line will wear faster and will advance more frequently when cutting against hard surfaces such as rocks, bricks, concrete, metal fences, etc., than when cutting against woody objects such as trees or wooden fences.
- If line does not advance properly:
 - Operate the engine at full throttle and allow the line to strike a hard surface such as concrete or the ground.
 - If line is 4" or less, stop the engine and check for line binding or tangling on the spool. See "Trimmer Head" in the Maintenance Section for rewinding instructions.
- Always keep the shield in place when the tool is being operated. Figure 13.

⚠ WARNING

Use only .080" diameter Laser Line. Other sizes of line will not advance properly and can cause serious injury. Do not use other materials such as wire, string, rope, etc. Wire can break off during cutting and become a dangerous missile.

⚠ WARNING

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

CUTTING LINE
ADVANCES
AUTOMATICALLY

LINE LIMITER
CUTS LINE TO
PROPER LENGTH

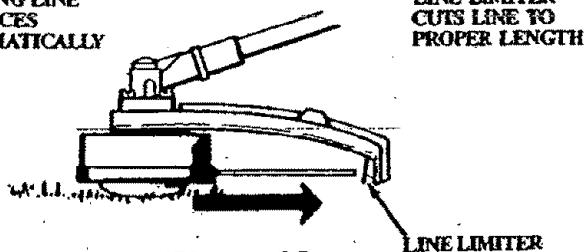


Figure 13

C. CUTTING METHODS

- 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 in Figure 14.
- 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.* To avoid damage, especially to delicate vegetation or trees with tender bark, use less than full throttle and keep a 3 inch distance away. Keep in mind that the line will advance suddenly to a longer length when it wears down to 4-5 inches.
- For trimming or scalping use less than full throttle to prevent line breakage and excessive line usage:
 - 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.

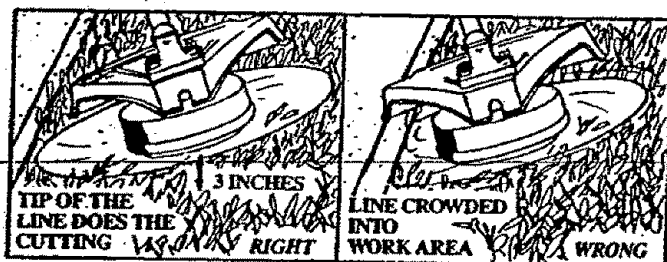


Figure 14

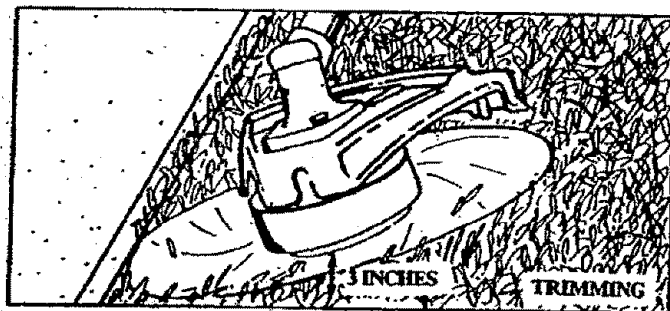


Figure 15

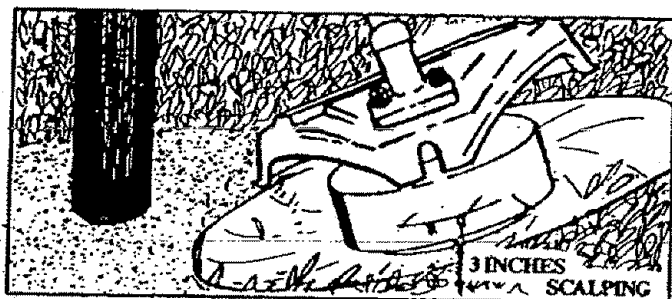


Figure 16

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.

1. TRIMMING — Figure 15

Hold the bottom of the trimmer head about 3 inches above the ground and at an angle. Allow only the tip of the line to make contact. Do not force the trimmer line into the work area.

2. SCALPING — Figure 16

The scalping technique removes unwanted vegetation. Hold the bottom of the trimmer head about 3 inches 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.*

3. MOWING — Figure 17

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.

4. SWEEPING — Figure 18

The fanning action of the rotating line can be used for a quick and easy clean up. Keep the line parallel to and above the surfaces being swept and move the tool from side to side.

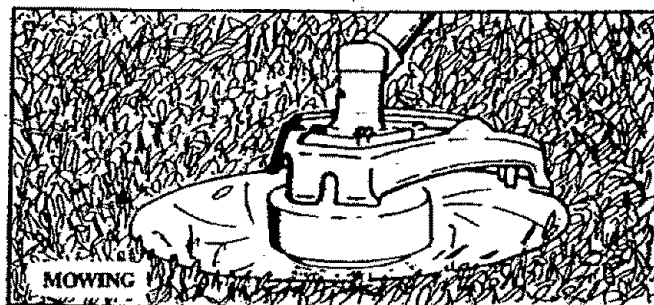


Figure 17

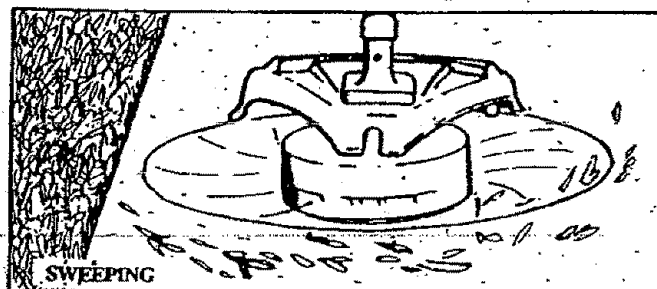


Figure 18

D. LINE REPLACEMENT

● For proper line feed:

- Use only genuine Sears pre-wound spools and .080" diameter Sears Laser Line brand line. Use of other types of spools or lines can result in excessive breakage, line welding and improper line feed.
- Pre-wound spools offer the most convenient method for replacing line as well as optimum performance.

- Always clean dirt and debris from the spool and hub when performing any type maintenance.

1. Installing New Spool with Line

- Hold the Trimmer Head as shown in Figure 19. Press the Lock Tab and turn Cover counterclockwise.
- Remove the Cover and Spool. Figure 20.
- Clean dirt and debris from all parts.
- Inspect all Trimmer Head parts for damage. Replace damaged parts.

▲ 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 the tool.

- Insert about 6 inches of Line from the inside of the Hub through the Line Exit Hole to the outside to keep the Line from backing into the head. Figure 21.
- Route the Line behind the Balancing Pin (Figure 21) while carefully placing the Spool in the Hub.
- Pull on the Line extending outside the Hub to make sure the Line will not advance. See Inset, Figure 21. This indicates that the Line is routed properly.
- Reinstall Cover:
 - Align the four catches on the Hub with the cut-outs in the Cover. Figure 20.
 - Press the Cover onto the Hub.
 - Turn Cover clockwise. Figure 19.
- Check to make sure all four Catches and the Lock Tab are properly fastened as shown in Figure 22, then test the Cover by trying to turn it counterclockwise.
- Pull on the Line again from outside the Hub. If the Line can be pulled from the assembled head, it is not properly routed around the Balancing Pin and will feed continuously when the Trimmer Head turns. Remove Cover and re-route Line as shown in Figure 21.

▲ WARNING

All four catches must be fastened and the lock tab latched onto the cover. If installed improperly, the cover can fly off and become a dangerous missile.

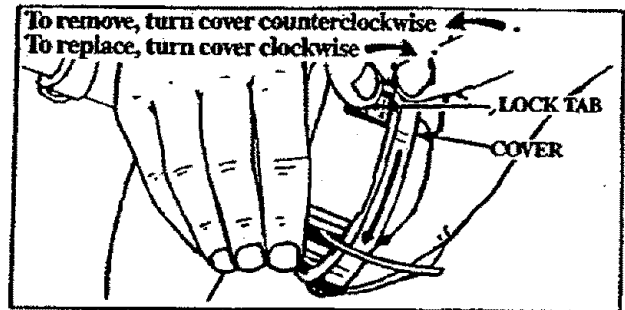


Figure 19

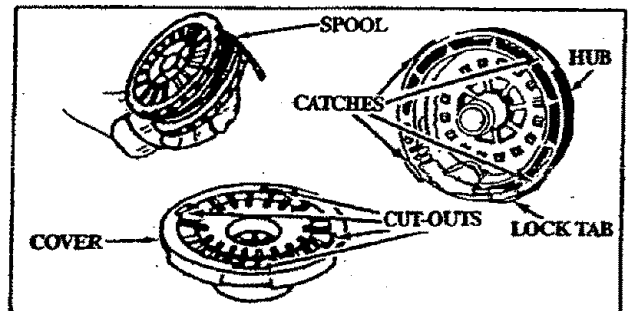


Figure 20

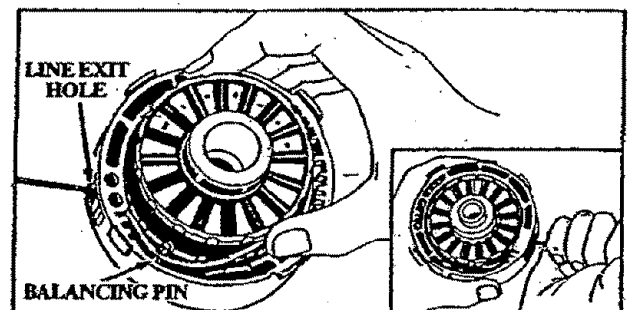


Figure 21

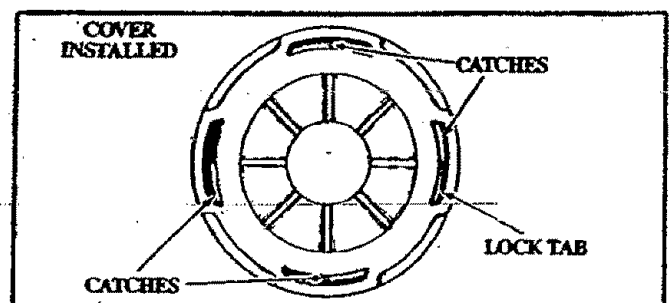


Figure 22

- Follow "Installing Spool w/Line," steps "a-d" and remove any Line remaining on the Spool.
- Use a 40 foot length of .080" diameter Sears Laser Line.
- Insert 1/16" to 1/8" of the end of the Line through one of the holes in the rim of the Spool. Allow no more than 1/8" Line to extend beyond the rim to avoid interference with line release action. Figure 23.
- Wind the Line onto the Spool in the direction shown by the arrow on the Spool and as tightly and evenly as possible so the Line will feed properly. Figure 23.

CAUTION: The Trimmer Head will not function properly if the spool is filled beyond the notches around the outside edge of the spool.

- Follow "Installing Spool w/Line" steps "e-j."

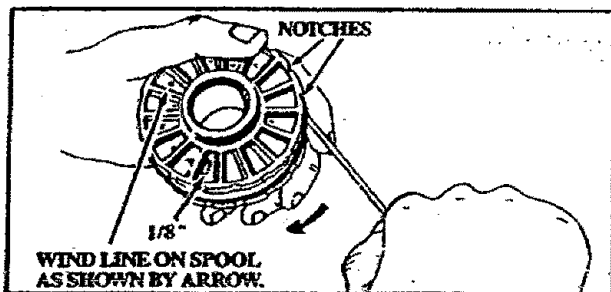


Figure 23

- Does not advance, or breaks while cutting
 - Improperly routed in head.
 - Improperly wound onto spool.
 - Line size incorrect.
 - Too little line outside head.
- Welds onto spool
 - Line size incorrect.
 - Incorrect spool.
 - Crowding line against material being cut.
 - Cutting at higher speeds than necessary.
 - Wound loosely on spool.
- Releases continuously
 - Wound beyond notches on spool.
 - Improperly routed in head.
 - Line size incorrect.
 - Shield installed improperly.
- Usage is excessive
 - Improperly routed in head.
 - Line size incorrect.
 - Cutting at high speeds around hard objects.
 - Crowding line against material being cut.
- Pulls back into head
 - Too little line outside of head.

GENERAL MAINTENANCE

A. MAINTENANCE SAFETY

- Maintain the tool according to recommended procedures. Keep the trimmer line at the proper length.
- Never start the engine with the clutch shroud removed. The clutch can fly apart and cause serious injury.
- Disconnect the spark plug before performing maintenance except for carburetor adjustments.
- Make carburetor adjustments with the drive shaft housing supported to prevent the trimmer line from contacting any object. Hold the tool with your hand; do not use the optional shoulder strap for support.
- Keep others away when making carburetor adjustments.
- Be sure trimmer head stops turning when engine idles. See "Carburetor Adjustments."
- Use only .080" diameter Sears Laser Line. Never use wire, rope, string, etc.
- Replace trimmer head parts that are cracked, chipped, broken, or damaged in any other way before using the tool.
- Use only genuine replacement parts as recommended by Sears.
- Inspect entire tool. Replace damaged parts. Check for fuel leaks. Make sure all fasteners are in place and securely fastened.

B. AIR FILTER

A dirty air filter decreases the life and performance of the engine and increases fuel consumption.

Clean the Air Filter:

- Always after 5 tanks of fuel or 5 hours of operation, whichever is less.
 - More frequently in dusty conditions.
- Loosen the two Screws on the Air Filter Cover enough to remove the Cover from the Engine. Figure 24.
 - Remove the Air Filter from the Cover. Figure 25.
 - Wash Filter in soap and water.
 - Squeeze Filter dry and replace in Cover.

CAUTION: Do not clean the air filter in gasoline or other flammable solvent to avoid creating a fire hazard.

- Reinstall the Air Filter Cover, making sure the Choke Exit Slot (Figure 25) is placed over the Choke Lever.

CAUTION: Make sure the air filter is fitted into the corners of the cover to keep dust from entering the engine and causing engine damage.

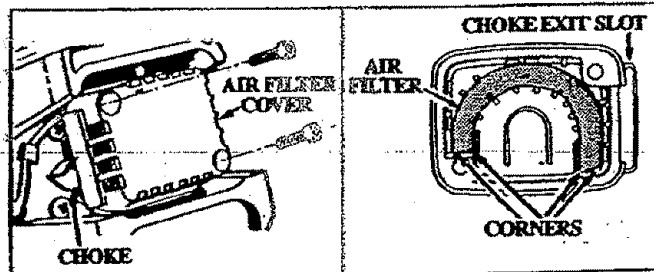


Figure 24

Figure 25

C. STARTER ROPE

▲ DANGER

Never start the engine with the clutch shroud removed. The clutch will fly apart and cause serious injury.

▲ WARNING

Do not remove the retaining tab and screw to remove pulley. The spring beneath the pulley is under tension and can fly out causing serious injury. If any part of the pulley housing assembly is damaged other than the rope, do not use the tool. Take it to your Sears Service Center.

1. Disconnect Spark Plug Wire. Figure 26.
2. Remove the Screw and Nut in the Throttle Trigger Housing as shown in Figure 2. Hold the Throttle Trigger away from Drive Shaft Housing and remove Throttle Cable from Trigger. Pull Cable out of Foam Grip tunnel.
3. Remove the four Clutch Shroud Screws as shown in Figure 26 (with the small hex wrench provided).
4. Separate the Clutch Shroud from the Engine. Figure 27.

▲ DANGER

Use only a hand tool to remove the clutch. Do not use any type of motorized tool or strike the clutch in any way. Otherwise, the clutch will fly apart and cause serious injury.

5. Hold the "Flats" of the Clutch (Figure 27) with an adjustable wrench as shown in Figure 28 (inset) and remove the Nut counterclockwise with a 9/16" socket wrench.
- NOTE:** Clutch will slide off the crankshaft intact. Do not disassemble clutch.
6. Remove the Beveled Washer, Clutch, and Large Flat Washer as shown in Figure 28.
 7. Remove the Pulley Housing from the Engine. Figure 28.
 8. Remove Rope Retention Screw. Remove any remaining rope.
 9. Hold Pulley Housing and hand turn the Pulley clockwise as far as it will go. Then, turn the Pulley counterclockwise until the Pulley Notch is aligned with the Housing Notch next to the Retaining Tab and Screw. Figure 29. Next, turn the Pulley one complete turn counterclockwise until the notches are aligned again.
 10. Insert the small hex wrench into the hole formed by the Notches to hold the Pulley in position. Figure 29 (Inset).
 11. Use a 42" length of replacement Rope.
 12. Move away (10 feet) from the fuel tank with the replacement Rope. Use a match and melt both ends of the Rope to prevent fraying.

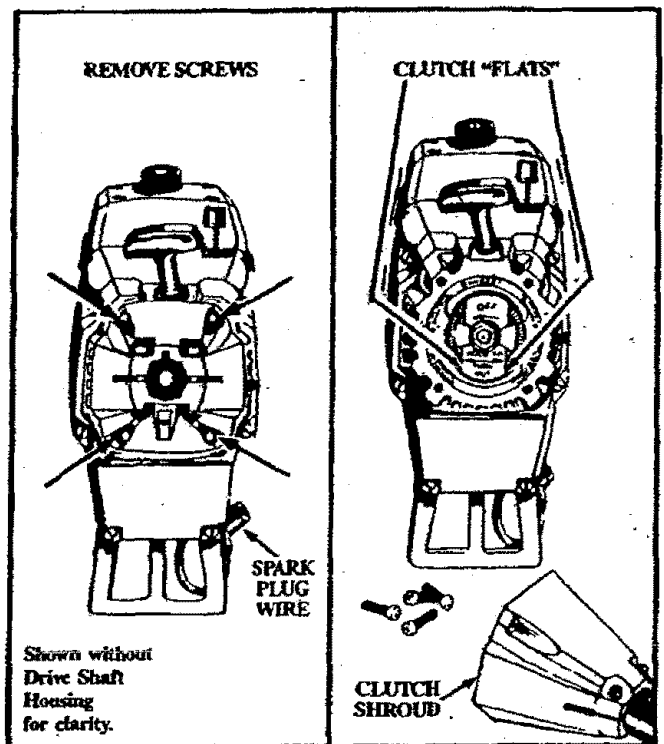


Figure 26

Figure 27

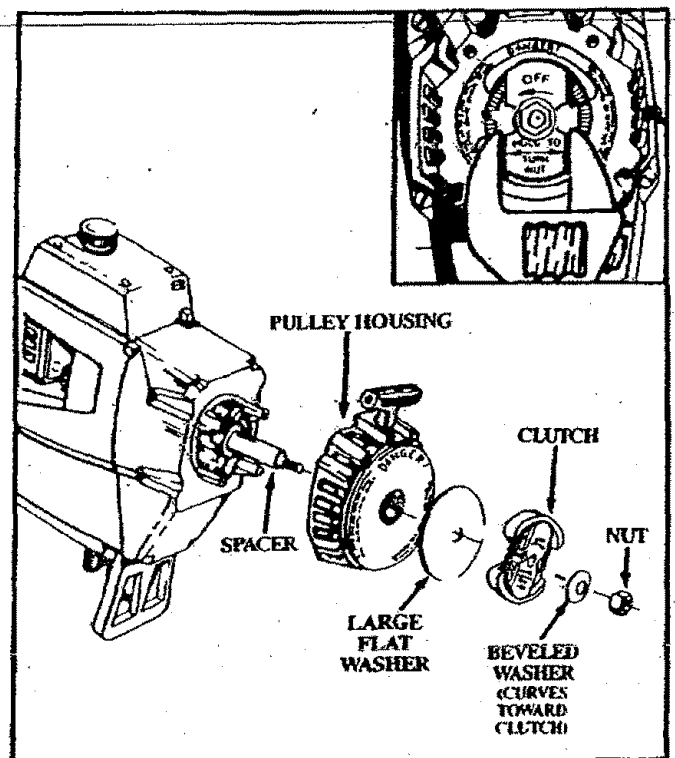


Figure 28

13. Pull the melted ends through a thick, clean rag while the Rope is still hot to obtain smooth, pointed ends.
14. Insert one end of the Rope through the Handle and secure with a knot.
15. Insert the other end of the Rope through the Rope Exit Hole, into the inside of the Housing, into the Pulley, and up through the Pulley Hole. See Inset, Figure 29.
16. Wrap Rope counterclockwise around the Pulley Ratchet and tuck loose end under Rope where it comes out of the Pulley Hole. Leave a 1-inch tail laying flat on top of the Pulley between the Retainer Rib and the Rope Retention Screw/Post. Figure 29.
17. Reinstall the Rope Retention Screw into the retention post. Tighten until snug.
NOTE: Do not overtighten the Screw. Overtightening the screw can cause the threads in the screw post to strip out.
18. Hold Rope taut at Rope Exit Hole so it will not move and remove hex wrench.
19. Slowly feed rope into the Pulley Housing.
20. Make sure Spacer is in place as shown in Figure 28, then reverse steps to re-assemble.

CAUTION: When reinstalling the clutch, tighten the nut just until the beveled washer is flattened against the clutch. Over or under tightening the nut can cause engine damage.

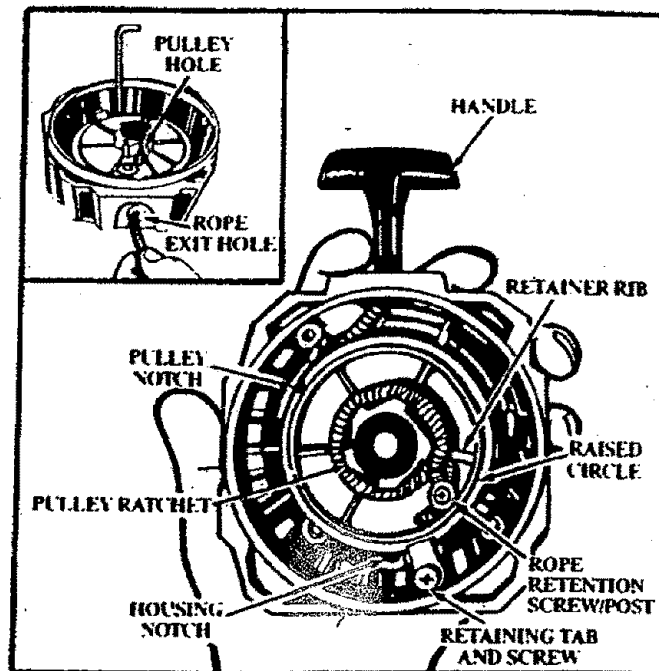


Figure 29

D. FLEXIBLE DRIVE SHAFT LUBRICATION

- Lubricate the Flexible Drive Shaft:
 - After each ten (10) hours of operation.
 - Before operating if the tool has been stored for 90 days or longer.
- Use the following procedure for best results:
- Use Flex Shaft Lube Part No. 530-030102.
NOTE: A tube of "Flex Shaft Lube" has been supplied with your unit to be used after the first 10 hours of operation.

WARNING

If engine has just been operated, avoid touching the muffler. A hot muffler can cause serious burns.

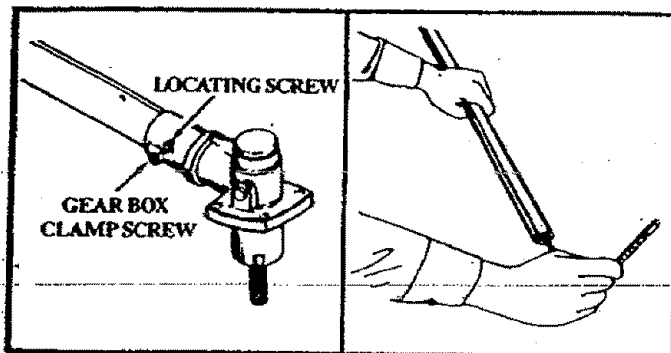


Figure 30

Figure 31

CAUTION: Lay the flexible drive shaft on a clean surface. Avoid laying the shaft on the floor, ground, or on any surface that may have dirt or debris. Even after wiping the shaft, grease residue can pick up dirt particles that can cause damage or premature failure.

CAUTION: Take care to avoid injuring your hands and fingers with broken wires when checking for damage or wiping the flexible drive shaft. A cloth will not prevent the broken wires from puncturing or tearing your skin.

1. Remove Gear box Clamp Screw and Locating Screw. Figure 30.
2. Remove the Drive Shaft Housing from the Gear Box.
3. Remove the Flexible Drive Shaft from the Drive Shaft Housing. Figure 31.
4. Check the Flexible Drive Shaft for broken wires, twists, or kinks and replace if damage is found.
5. Using a clean cloth, wipe the surface of the Flexible Drive Shaft thoroughly to remove any old grease.
6. Apply a uniform coat of lube to the entire surface of the Flexible Drive Shaft.
7. Inject the remaining contents of the tube into the top of the Drive Shaft Housing.
8. Replace Flexible Drive Shaft in the Drive Shaft Housing.
9. Reassemble the Drive Shaft Housing and Gear Box. Tighten Screws securely.

E. CARBURETOR ADJUSTMENTS

- This is a complicated task. It is important to follow instructions in sequence as indicated.

⚠WARNING

Make carburetor adjustments with the drive shaft housing supported to prevent the trimmer line from contacting any object. Hold the tool with your hand; do not use the optional shoulder strap for support.

⚠WARNING

Keep others away when making carburetor adjustments.

⚠WARNING

Serious injury to the operator and others can occur if the carburetor is not properly adjusted.

- Poor engine performance can be a result of other causes such as dirty air filter, carbon build-up on muffler outlets, etc. See "Trouble Shooting Chart" before proceeding with carburetor adjustments.
- The carburetor has been carefully adjusted at the factory. However, the operator must be sure that adjustments are made when any of the conditions occur as mentioned in "Trouble Shooting Suggestions" below.
- Very small adjustments can affect engine performance. It is important to turn the screw a very small amount per adjustment and test performance before making further adjustments. Each adjustment should be no more than the width of the slot in the adjusting screws.

1. TROUBLE SHOOTING SUGGESTIONS

- Engine will not continue to run at idle position. See "b. Idle Speed Adjustment" and "e. Low Speed Mixture Adjustment."
- Trimmer Head continues to spin when the engine idles. See "b. Idle Speed Adjustment" and "d. Deceleration Check."
- Engine dies or hesitates when it should accelerate. See "c. Acceleration Check."
- Loss of cutting power which cannot be corrected by cleaning the air filter. See "f. High Speed Mixture Adjustment."
- Engine does not return to idle from full throttle within 2 seconds. See "d. Deceleration Check."
- Engine will not run. See "Trouble Shooting Chart." Then, if the carburetor requires adjustment, begin with "2. Basic Carburetor Settings."

⚠WARNING

The trimmer line will be spinning during most of this procedure. Wear your protective equipment and observe all safety instructions.

2. BASIC CARBURETOR SETTINGS

NOTE: In most cases, your engine can be made to run properly with minor carburetor adjustments. Refer to "Trouble Shooting Suggestions" in the left column for the condition you are experiencing and follow the instructions. The basic carburetor settings are provided in case they are required.

- Turn the Low Speed Mixture Screw and the High Speed Mixture Screw (Figure 32) clockwise until they stop. *Do not turn the screws until they are tight, as damage to the needle seats can occur.*
- Turn the Low Speed Mixture and High Speed Mixture Screws one full turn counterclockwise.
- Follow instructions "a. Preparation," through "f. High Speed Mixture Adjustment."

3. PROCEDURE

a. PREPARATION

- 1.) Use a fresh fuel mix. See "Fueling Your Engine."
- 2.) Make sure the line extends to the length allowed by the line limiter to provide correct load on engine.
- 3.) Start the engine. Cut grass for 3 minutes to warm engine. *The engine must be at operating temperature before carburetor adjustments can be performed correctly.*
- 4.) Stop engine and remove air filter by pulling it out with your fingers. Refer to "Specifications" for location.

b. IDLE SPEED ADJUSTMENT

- 1.) Allow engine to idle.
- 2.) Adjust Idle Speed Screw (Figure 32) until the engine continues to run without stalling and without the trimmer head moving.
 - Turn screw clockwise to increase engine speed if the engine stalls or dies.
 - Turn screw counterclockwise to slow engine down and/or to keep trimmer head from turning.
- 3.) Follow instructions in "c. Acceleration Check" and "d. Deceleration Check."
- 4.) No further adjustments are necessary if the trimmer head does not turn at idle speed and if performance is satisfactory.

⚠WARNING

Recheck idle speed after each adjustment. The trimmer head must not turn at idle speed to avoid serious injury to the operator and others.

c. ACCELERATION CHECK

- 1.) Allow engine to idle.
- 2.) Squeeze Trigger fully
 - a. If performance is satisfactory, proceed to "d. Deceleration Check."
 - b. If the engine does not accelerate smoothly, turn the Low Speed Mixture Screw (Figure 32) counterclockwise a small amount (no more than the width of the slot in the adjusting screw).
- 3.) Repeat step "2.)" until smooth acceleration is obtained.

NOTE: It may be necessary to repeat "b. Idle Speed Adjustment" through "c. Acceleration Check," to obtain correct adjustments.
- 4.) Follow instructions in "d. Deceleration Check."

d. DECELERATION CHECK

- 1.) Allow engine to idle, then squeeze Throttle Trigger fully.
- 2.) Allow engine to run at full speed for about 1 second.
- 3.) Release the Throttle Trigger to the idle position and listen to the deceleration of the engine. It must return to idle smoothly and within 1 to 2 seconds.
 - a. If performance is satisfactory, proceed to step "4.)"
 - b. If the engine slowly or erratically returns to idle or idles erratically, repeat "b. Idle Speed Adjustment" or continue through Low Speed Mixture and High Speed Mixture Adjustments to obtain proper deceleration.
- 4.) Recheck idle speed.

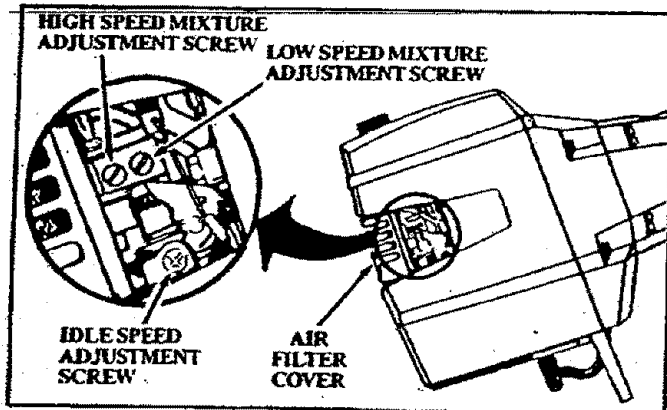


Figure 32

e. LOW SPEED MIXTURE ADJUSTMENT

- 1.) Allow engine to idle.
- 2.) Turn the Low Speed Mixture Screw (Figure 32) slowly clockwise until the speed starts to drop. Note this position.
- 3.) Turn the Low Speed Mixture Screw counterclockwise until the speed increases and then starts to drop again. Note this position.
- 4.) Set the Low Speed Mixture Screw at the midpoint between the two positions.
- 5.) Follow instructions in "c. Acceleration Check" and "d. Deceleration Check."

f. HIGH SPEED MIXTURE ADJUSTMENT

CAUTION: Do not operate engine at full throttle for prolonged periods while making high speed adjustments as damage to the engine can occur.

- 1.) Support the drive shaft housing so the trimmer line is off the ground and will not make contact with any object.
- 2.) Allow engine to idle, then squeeze Throttle Trigger fully.

NOTE: Perform steps "3.)" through "5.)" at full throttle.
- 3.) Turn High Speed Mixture Screw (Figure 32) very slowly clockwise until engine speed is reduced.
- 4.) Turn High Speed Mixture Screw very slowly counterclockwise. Stop when the engine begins to run roughly.
- 5.) Turn the screw slowly the minimum amount clockwise until the engine runs smoothly.
- 6.) Follow instructions in "c. Acceleration Check" and "d. Deceleration Check."

CAUTION: If the engine does not operate according to these instructions after repeating the adjusting steps, do not use the tool. Take it to your Sears Service Center.

g. REINSTALL AIR FILTER

Be sure filter is clean. See "Air Filter" for instructions.

CAUTION: Fit air filter into the corners of the housing to keep dirt from entering the engine and causing engine damage.

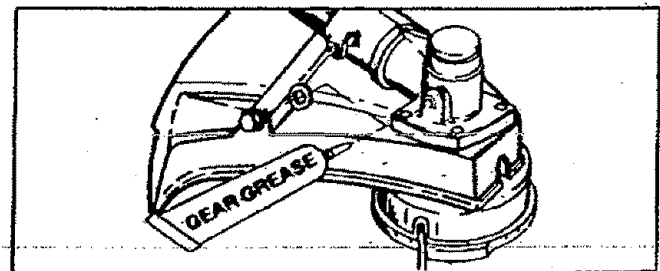


Figure 33

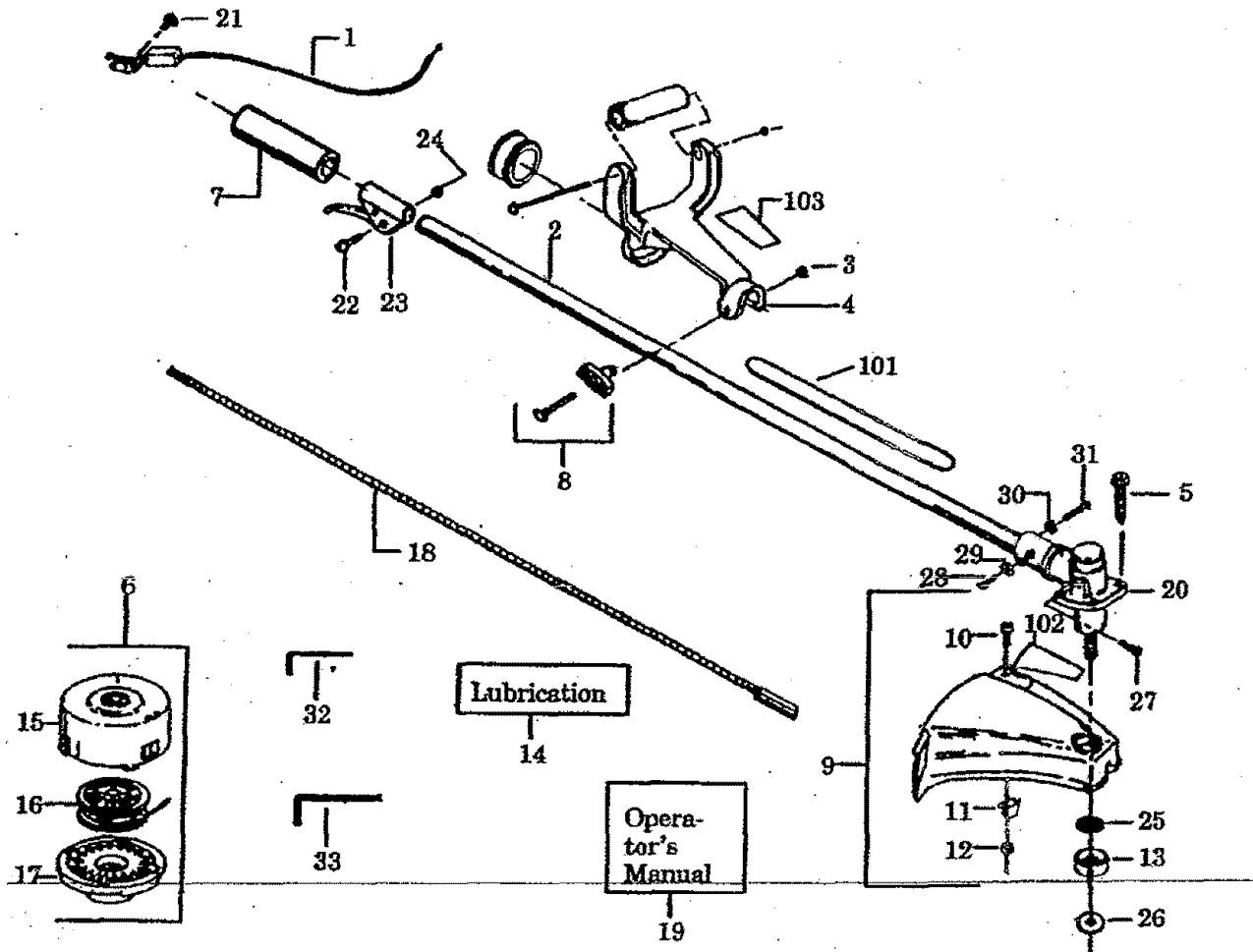
F. GEAR BOX LUBRICATION

- Lubricate the gear box after every 50 hours of operation.
 - Use Lithium based gear grease available from most automotive stores.
1. Remove the Screw and Washer on the Gear Box using a wrench. Figure 33.
 2. Fill Gear Box with gear lube.
 3. Replace Washer and Screw. Tighten Screw securely.

G. TROUBLE SHOOTING CHART

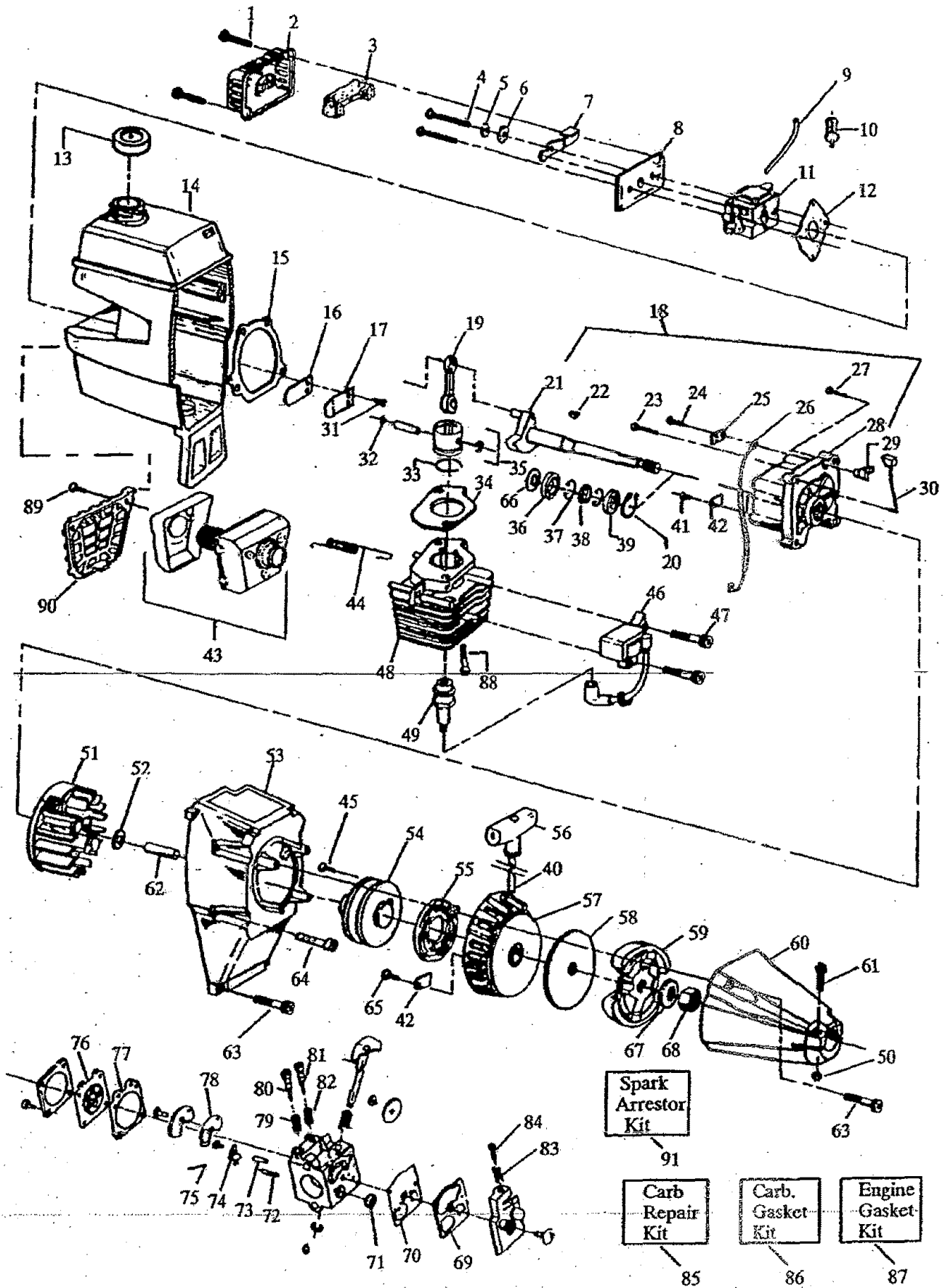
SYMPTOM	CAUSE	REMEDY
Engine will not start or will run only for a few seconds after starting	<ol style="list-style-type: none"> 1. Fuel tank empty. 2. Engine flooded. 3. Spark plug not firing. 4. Fuel not reaching carburetor. 5. Carburetor requires adjustment. 6. None of the above. 	<ol style="list-style-type: none"> 1. Fill tank with correct fuel mixture. 2. See "Starting Instructions." 3. Install new plug/check ignition system. 4. Clean fuel filter; inspect fuel line. 5. See "Carburetor Adjustments." 6. Contact your Sears Service Center.
Engine will not idle properly	<ol style="list-style-type: none"> 1. Idle speed set too fast or too slow. 2. Low speed mixture requires adjustment. 3. Throttle trigger screw too tight. 4. None of the above. 	<ol style="list-style-type: none"> 1. See "Carburetor Adjustments." 2. See "Carburetor Adjustments." 3. Loosen screw to free trigger. 4. Contact your Sears Service Center.
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. Muffler outlets plugged. 5. None of the above. 	<ol style="list-style-type: none"> 1. Clean or replace air filter. 2. Clean or replace spark plug and regap. 3. See "Carburetor Adjustments." 4. Contact your Sears Service Center. 5. Contact your Sears Service Center.
Engine smokes excessively	<ol style="list-style-type: none"> 1. Air filter dirty. 2. Fuel mixture incorrect. 3. High speed mixture requires adjustment. 	<ol style="list-style-type: none"> 1. Clean or replace air filter. 2. Refuel with correct fuel mixture. 3. See "Carburetor Adjustments."
Engine runs hot	<ol style="list-style-type: none"> 1. Fuel mixture incorrect. 2. High speed mixture set too low (lean). 3. Spark plug incorrect. 4. None of the above. 	<ol style="list-style-type: none"> 1. See "Fueling Your Unit." 2. See "Carburetor Adjustments." 3. Replace with correct plug. 4. Contact your Sears Service Center.
Trimmer head turns at idle speed	<ol style="list-style-type: none"> 1. Carburetor requires adjustment. 2. Throttle trigger screw too tight. 3. Clutch requires repair. 	<ol style="list-style-type: none"> 1. See "Carburetor Adjustments." 2. Loosen screw to free trigger. 3. Contact your Sears Service Center.
Trimmer head stops under a load or does not turn when engine is accelerated	<ol style="list-style-type: none"> 1. Drive shaft broken or not engaged. 2. Carburetor requires adjustments. 3. Clutch requires repair. 	<ol style="list-style-type: none"> 1. Replace or see "Assembly." 2. See "Carburetor Adjustments." 3. Contact your Sears Service Center.
Line does not advance or breaks while cutting	<ol style="list-style-type: none"> 1. Line improperly routed in head. 2. Line improperly wound onto spool. 3. Line size incorrect. 4. Too little line outside head. 	<ol style="list-style-type: none"> 1. Remove cover. Check line routing. 2. Rewind line tightly and evenly. 3. Use only .080" Sears Laser Line®. 4. Remove cover. Pull 6" of line to outside.
Line welds on spool	<ol style="list-style-type: none"> 1. Line size incorrect. 2. Incorrect spool. 3. Crowding line against material being cut. 4. Cutting at higher speed than necessary. 	<ol style="list-style-type: none"> 1. Use only .080" Sears Laser Line®. 2. Use proper spool. 3. Cut with tip of line. 4. Reduce cutting speed.
Line releases continuously	<ol style="list-style-type: none"> 1. Line wound beyond notches on spool. 2. Line improperly routed in head. 3. Line size incorrect. 4. Shield installed improperly. 	<ol style="list-style-type: none"> 1. Rewind line tightly and evenly. 2. Remove cover. Check line routing. 3. Use only .080" Sears Laser Line®. 4. Reinstall shield properly.
Line usage is excessive	<ol style="list-style-type: none"> 1. Line improperly routed in head. 2. Line size incorrect. 3. Cutting at high speed around hard objects. 4. Crowding line against material being cut. 	<ol style="list-style-type: none"> 1. Remove cover. Check line routing. 2. Use only .080" Sears Laser Line®. 3. Reduce speed around hard objects. 4. Cut with tip of line.
Line pulls back into head	<ol style="list-style-type: none"> 1. Too little line outside of head 	<ol style="list-style-type: none"> 1. Remove cover. Pull 6" of line to outside.

SEARS WEEDWACKER® REPAIR PARTS LIST - MODEL 358.797161-32cc



Key No.	Part No.	Description	Key No.	Part No.	Description
1	530-027549	Throttle Cable Ass'y.	18	530-094585	Drive Shaft
2	530-094694	Drive Shaft Housing	19	530-067877	Operator's Manual
3	STD541025	Nut	20	530-094568	Gear Box Ass'y.
4	530-010958	Handle	21	530-015775	Screw
5	530-092243	Screw	22	530-015774	Screw
6	71-85805	Cutting Head Ass'y. (Incl. # 15,16 & 17)	23	530-010959	Throttle Lever Ass'y. (Incl. #22 & 24)
7	530-027595	Drive Shaft Grip	24	530-015768	Nut
8	530-069252	"T" Handle" Ass'y.	25	530-094640	Seal
9	530-069256	Shield Kit Ass'y. (Incl. #10,11 & 12)	26	530-094571	Grass Washer
10	STD511005	Screw	27	530-094616	Screw
11	530-094570	Line Limiter	28	530-094612	Screw
12	530-015653	Locknut	29	530-015328	Lockwasher
13	530-094639	Dust Cup	30	530-001642	Lockwasher
14	530-030139	Shaft Lubrication	31	530-001711	Screw
15	530-094557	Hub Ass'y	32	530-031111	Hex Wrench (5/32)
16	71-85815	Spool w/Line	33	530-031098	Hex Wrench (3/16)
17	530-094494	Cover	101	530-029159	Decal-Shaft Warning
			102	530-029763	Decal-Shield
			103	530-029764	Decal-Anti-Vibe Handle

SEARS WEEDWACKER® REPAIR PARTS LIST – MODEL 358.797161–32cc



SEARS WEEDWACKER® REPAIR PARTS LIST - MODEL 358.797161-32cc

Key No.	Part No.	Description	Key No.	Part No.	Description
1	530-015773	Screw	49	530-030077	Spark Plug
2	530-027529	Air Filter Cover	50	530-015768	Locknut
3	530-027530	Air Filter	51	530-039136	Flywheel Ass'y.
4	530-015766	Screw	52	530-347987	Washer
5	530-027528	Spacer	53	530-027517	Fan Housing
6	530-015254	Wave Washer	54	530-069291	Starter Pulley Kit (Incl. #45)
7	530-027526	Choke Shutter	55	530-029395	Starter Spring
8	530-027527	Air Filter Plate	56	530-027569	Starter Handle
9	530-069247	Fuel Line Kit	57	530-010961	Pulley Housing Ass'y.
10	530-010897	Fuel Pick-up Ass'y.	58	530-094189	Clutch Washer
11	530-035259	Carburetor	59	530-069254	Clutch Ass'y. Kit
12	530-019156	† Carburetor Gasket	60	530-010964	Clutch Housing
13	530-010729	Fuel Cap Ass'y.	61	530-015767	Screw
14	530-029675	Shroud & Tank Ass'y. (Incl. #9,10 & 13)	62	530-027511	Spacer
15	530-019154	† Crankcase/Shroud Gasket	63	530-015770	Screw
16	530-027593	Reed	64	530-015769	Screw
17	530-027594	Reed Stop	65	530-015496	Screw
18	530-014015	Crankcase/Crankshaft Ass'y. (Incl. #20,21,28 & 66)	66	530-015788	Spacer
19	530-010960	Connecting Rod Ass'y. (Incl. Bearings)	67	530-015796	Washer
20	530-015789	Crankshaft Retaining Ring	68	STD541137	Nut
21	530-010934	Crankshaft Ass'y.	69	530-035164	*+ Pump Gasket
22	530-015126	Flywheel Key	70	530-035166	*+ Pump Diaphragm
23	530-015772	Screw	71	530-035178	+ Inlet Screen
24	530-015780	Screw	72	530-035106	+ Inlet Needle Valve
25	530-027546	Switch Insulator	73	530-035188	+ Metering Lever Spring
26	530-027547	Lead Wire	74	530-035031	+ Metering Lever
27	530-015771	Screw	75	530-035028	+ Metering Pin
28	530-014016	Crankcase Ass'y. (Incl. #36-39)	76	530-035014	*+ Metering Diaphragm
29	530-027545	Switch Ramp	77	530-035151	*+ Metering Diaphragm Gasket
30	530-027543	Switch Spring Ass'y.	78	530-035147	*+ Circuit Plate Gasket
31	STD610603	Screw	79	530-035036	Hi Speed Needle Spring
32	530-015162	Piston Pin Retainer	80	530-035142	Hi Speed Needle
33	530-025875	Piston Ring	81	530-035141	Idle Needle
34	530-019178	† Cylinder Gasket	82	530-035023	Idle Needle Spring
35	530-069275	Piston Kit (Incl. #32,33, & pin)	83	530-035208	Idle Speed Spring
36	530-032103	Inner Bearing	84	530-035203	Idle Speed Screw
37	530-015787	Retaining Ring	85	530-035260	Carb. Kwik Repair Kit (+Indicates Contents)
38	530-019158	Crankshaft Seal	86	530-035185	Carb. Gasket/Diaphragm Kit (*Indicates Contents)
39	530-032102	Bearing Outer	87	530-069276	Engine Gasket Kit (†Indicates Contents)
40	530-069232	Rope Kit	88	530-015239	Screw
41	530-015777	Screw	89	530-015717	Screw
42	530-027523	Retainer	90	530-027781	Muffler Guard
43	530-069257	Muffler Kit	91	952-701612	Spark Arrestor Kit
44	530-024903	Muffler Attachment Spring			
45	530-015823	Screw			
46	530-039134	Ignition Module Kit			
47	530-015128	Screw			
48	530-012235	Cylinder			
			Not Shown		
				530-029734	Instruction Decal
				530-061348	Carton

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QUICK REFERENCE PAGE

*Read and Follow All Warnings, Safety Instructions, and Operating Instructions.
Failure to do so can result in serious injury.*

Page No.

PREPARATION **3 & 5**

1. Know all warnings and safety instructions in this manual.
2. Wear safety face shield or goggles for eye protection.
3. Dress safely - boots or safety shoes and heavy, long pants.
4. Check tool for worn, loose, missing, or damaged parts; repair or replace as necessary before using the tool.
5. Inspect and ensure the area to be cut is safe.
6. Keep children, bystanders, and animals 30 feet away.

FUELING **11**

1. Eliminate all sources of sparks or flame where fuel is mixed, poured, or stored.
2. Use 40 parts regular unleaded gasoline to 1 part air-cooled, 2-cycle engine oil.
3. Use clean and fresh fuel.
4. Mix and store fuel in an approved, marked container.
- ~~5. Mix and pour fuel in an outdoor area.~~
6. Move a minimum of 10 feet away from the fuel and fueling site before starting engine.

STARTING THE ENGINE **12**

1. Extend line 6 inches from the head.
2. Rest the shield on the ground supporting the trimmer head up off the ground away from objects and on-lookers.
3. Keep throttle trigger squeezed fully until engine runs.
4. Pull the starter rope sharply and quickly.

OPERATING THE TOOL **13**

1. Do not operate the tool at a higher speed than necessary.
2. Release the throttle trigger and allow the engine to idle when not cutting.
3. Stop the engine by moving the ignition switch to the "Off" position.

MAINTENANCE **17**

1. Run fuel from the unit before storing.
2. Disconnect spark plug before performing maintenance except for carburetor adjustments.
3. Clean air filter frequently but always after 5 tanks of fuel.
4. Store in a dry place out of the reach of children.

SEARS

Operator's Manual

MODEL NO.
358.797161.32cc
(18" Cutting Path)

How to Order Repair Parts

**SEARS SERVICE
IS AT YOUR SERVICE**

The Model Number will be found below the top handle with the Serial Number. Always mention the Model Number when requesting service or repair parts for your unit.

All parts listed herein may be ordered from any Sears Service Center and most Sears Stores.

WHEN ORDERING REPAIR PARTS ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST:

- | | |
|-----------------------------------|---|
| 1. The PART NUMBER | 3. The PART DESCRIPTION |
| 2. The MODEL NUMBER
358.797161 | 4. The NAME OF ITEM —
26cc Gas Weedwacker® |

If the parts you need are not stocked locally, your order will be transmitted to a Sears Repair-Parts Distribution Center for handling.



When you buy merchandise from Sears you get an extra value that nobody else can offer — Sears Service.

Across town or across the country, Sears Service is always near, providing trustworthy, competent service technicians using only Sears-specified factory parts.

Your Sears Merchandise takes on added value when you discover that Sears has Service Units throughout the country. Each is staffed by Sears-Trained, professional technicians using Sears approved methods.

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