OWNER'S MANUAL
and
SAFETY INSTRUCTIONS

for Single Sided Gasoline Hedge Trimmers

Models
2230S - 30 inch
2242S - 42 inch

and for Double Sided Gasoline Hedge Trimmers

Models
2216D - 16 inch
2224D - 24 inch
2230D - 30 inch

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### I. Important Information

#### A. Introduction

On behalf of everyone at **Little Wonder**, we would like to thank you for your purchase of a **Little Wonder** Gasoline Powered Hedge Trimmer. This professional trimming machine was designed to the highest standards to ensure you many hours of uninterrupted service.

This manual provides the information necessary for safe and efficient operation and service. For your safety, it is critically important that you read and understand this entire manual before operating your hedge trimmer.
B. SERVICE INFORMATION

CUTTER BAR
Contact your local Little Wonder dealer.

ENGINE
Contact an authorized Echo dealer. Dealers are listed in the Yellow Pages under “Lawn and Garden Equipment Supplies”, “Lawn Maintenance” or “Lawn Mowers”.

C. SPECIAL SAFETY INFORMATION

⚠️ WARNING ⚠️ DANGER ⚠️
ATTENTION; THIS SYMBOL POINTS OUT OUR IMPORTANT SAFETY INSTRUCTIONS.
WHEN YOU SEE THIS SYMBOL, ⚠️ HEED IT’S WARNING!! STAY ALERT!!

⚠️ WARNING ⚠️ DANGER ⚠️
TO REDUCE THE POTENTIAL FOR ACCIDENTS, COMPLY WITH THE SAFETY INSTRUCTIONS IN THIS MANUAL. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY AND OR EQUIPMENT AND PROPERTY DAMAGE.

⚠️ Warning: The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

II. SAFETY AND WARNINGS

⚠️ WARNING ⚠️ DANGER ⚠️
IMPROPER USE OR CARE OF THIS TRIMMER, OR FAILURE TO WEAR PROPER PROTECTION CAN RESULT IN SERIOUS INJURY.
READ AND UNDERSTAND THE RULES FOR SAFE OPERATION AND ALL INSTRUCTIONS IN THIS MANUAL.
WEAR HEARING PROTECTION.
A. SAFETY DECALS

An important part of the safety system incorporated in this trimmer are the warning and informational decals found on various parts of the trimmer. These decals must be replaced in time due to abrasion, etc. It is your responsibility to replace the decals when they become hard to read. The location of these decals and their part numbers for ordering are shown below.

B. SAFETY DECAL IDENTIFICATION

WARNING

READ AND UNDERSTAND OPERATOR'S MANUAL BEFORE USING. KEEP IN A SAFE PLACE!
KEEP BOTH HANDS ON HANDLES AND AWAY FROM BLADES!
KEEP A SAFE DISTANCE AND NEVER OVERREACH. WHEN REACHING HIGH, STAND ONLY ON A STABLE SUPPORT AND NEVER ON THE TOP OF A LADDER!
BLADES COAST AFTER THROTTLE TRIGGER IS RELEASED OR ENGINE IS SHUTTED OFF!
NEVER OPERATE WITHOUT GUARDS, HANDLES, AND SAFETY DEVICES IN PLACE!

P/N 300605
Warning Label

P/N 4036
Ear and Eye Protection Label
C. GENERAL SAFETY RULES

1. Read and understand the owner’s manual. Pay particular attention to all sections regarding safety.

2. Always keep a firm grip on both handles while the blades are moving and/or the engine is running. On Double Sided units one hand grasps the front handle, while the other hand grasps the rear handle. On Single Sided units the right hand grasps the front side handle and the left hand grasps the rear handle. BE AWARE!! The blades coast after throttle trigger is released or engine is switched off. Make sure blades have come to a complete stop and engine is off before releasing a handle.

3. Maintain a firm footing and good balance, do not overreach while trimming. Before you start to trim, check the work area for obstacles that might cause you to lose your footing, balance or control of the machine.


WARNING  DANGER  
IF TRIMMER IS USED IMPROPERLY OR SAFETY PRECAUTIONS ARE NOT FOLLOWED, THE USER RISKS SERIOUS INJURY TO THEMSELVES AND OTHERS.

READ AND UNDERSTAND THE FOLLOWING BEFORE ATTEMPTING TO OPERATE THIS HEDGE TRIMMER.

D. WARNINGS — DON'TS

Don’t use trimmer with one hand, keep both hands on handles with fingers and thumbs encircling the handles, while blades are moving, and engine is running.

Don’t overreach or stand on unstable support. Do not stand on the top of a ladder while trimming. Use proper equipment for reaching higher heights. Keep a good footing at all times.

Don’t ever grasp cutting blades for any reason.

Don’t attempt to clear cut material while blades are moving, and the engine is running. Never try to remove jammed material before switching the engine off and making sure the blades have stopped completely.

Don’t over-ride safety features.

Don’t allow children or incapable people to operate this trimmer.

Don’t operate this hedge trimmer while under the influence of alcohol or drugs.

Don’t attempt to repair this hedge trimmer. Have repairs made by a qualified dealer or repairman. See that only original Little Wonder parts are used.
E. Warnings — Do’s

Always read and follow all instructions.

Always stay alert. Watch what you are doing and use common sense. Do not operate unit when fatigued.

Always dress properly. Do not wear loose clothing or jewelry, they might get caught in moving parts. Use sturdy proper fitting, non-slip gloves. Gloves reduce the transmission of vibration to your hands. Prolonged exposure to vibration can cause numbness and other ailments. Wear non-skid foot wear to ensure secure and proper footing.

Always wear ear and eye protection. Eye protection must meet ANSI Z 87.1. To avoid hearing damage we recommend hearing protection be worn whenever using the equipment.

Always keep both hands on both handles when trimmer is running. Severe injuries can result if you try to use the hedge trimmer with only one hand or with an insecure grip.

Always keep children, pets, and incapable persons away.

Always use trimmer properly. Cut only types and size of growth described in the Trimming section of this manual. Overloading or abusing your hedge trimmer can cause premature failure and can result in injury. Use common sense.

Always keep a safe distance between two or more operators when working together simultaneously.

Always inspect your unit before each use and ensure that all handles, guards, safety devices and fasteners are secure, operating, and in place.

Always maintain and examine your trimmer with care. Follow maintenance instructions given in manual.

Always store trimmer in a sheltered area (a dry place) not accessible to children. The hedge trimmer as well as fuel should not be stored in a house.
F. ENGINE/FUEL WARNINGS—DON'TS

WARNING  DANGER  WARNING  DANGER
HANDLE FUEL WITH CARE, IT IS HIGHLY FLAMMABLE. FUELING A HOT ENGINE OR NEAR AN IGNITION SOURCE CAN CAUSE A FIRE AND RESULT IN SERIOUS PERSONAL INJURY AND/OR PROPERTY DAMAGE.

Don’t fuel, refuel or check fuel while smoking or near an open flame or other ignition source. Stop engine and be sure it is cool before refueling.

Don’t leave the engine running while the trimmer is unattended. Stop engine before putting the trimmer down or while transporting from one place to another.

Don’t start, run this trimmer indoors, or in an improperly ventilated area as poisonous carbon monoxide and other gasses are emitted.

Don’t run engine when electrical system causes spark outside the cylinder. During periodic checks of the spark plug, keep plug a safe distance from cylinder to avoid burning of evaporated fuel from cylinder.

Don’t check for spark with spark plug or plug wire removed and grounded. Use an approved tester. Sparks can ignite fumes.

Don’t crank engine with spark plug removed. If the engine is flooded, open the choke (push choke knob in) and pull recoil until engine starts. If this fails read and follow section IV. E. of this manual.

Don’t run engine when the odor of gasoline is present or other explosive conditions exist.

Don’t operate the unit if gasoline is spilled. Clean up spill completely before starting engine.

Don’t refuel indoors or in an improperly ventilated area.

Don’t operate your trimmer if there is an accumulation of debris around the muffler, and cooling fins.

Don’t touch hot mufflers, cylinders or cooling fins as contact may cause serious burns.

G. ENGINE/FUEL WARNINGS—DO’S

Always use fresh gasoline in the fuel mixture. Stale gasoline can cause leakage.

Always pull starter cord slowly until resistance is felt. Then pull cord rapidly to avoid kickback and prevent arm or hand injury.

Always operate engine with spark arrestor installed and operating properly. The use of spark arrestor mufflers is required by law in the state of California (Section 4442 of the California Public Resources Code), as well as in other states or municipalities. Federal laws apply on federal lands.
III. ASSEMBLY INSTRUCTIONS

WARNING DANGER
BLADES ARE EXTREMELY SHARP.
TO AVOID INJURY WHEN
UNPACKING THE HEDGE
TRIMMER, DO NOT GRASP
THE BLADES.

For Double Sided Models
Your Little Wonder hedge trimmer has been assembled for you at the
factory. Before operating be sure all
fasteners are secure, and all guards and
safety devices are in place and operating
properly.

For Single Sided Models
1. Remove the cutter bar assembly, the
engine with handle and throttle assembly,
the side handle, and hardware bag from
their boxes.

The hardware bag consists of the
following items:

<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>972</td>
<td>1/4-20 Lock Nut</td>
<td>2</td>
</tr>
<tr>
<td>300102</td>
<td>Handle Support Channel</td>
<td>2</td>
</tr>
<tr>
<td>300113</td>
<td>Spacer Tube</td>
<td>2</td>
</tr>
<tr>
<td>300111</td>
<td>Shock Absorber</td>
<td>4</td>
</tr>
<tr>
<td>300112</td>
<td>Support Plate</td>
<td>1</td>
</tr>
<tr>
<td>300505</td>
<td>1/4-20 x 2 1/2 Bolt</td>
<td>2</td>
</tr>
<tr>
<td>3036-B</td>
<td>1/4-28 Flange Locknut</td>
<td>2</td>
</tr>
</tbody>
</table>

2. Place the front side handle over the
two 1/4-28 studs protruding from the
frame bar in front of the gear housing.
The handle grip must be pointing away
from the cutting blades as illustrated
below, left. On Model 2230S use the
set of studs which places the handle in
the most comfortable position for you.
Place the thread protectors over the set
of studs that you choose not to use at
this time to protect the threads. Secure
the handle in place using two 1/4-28
flange locking nuts provided. The nuts
should be tightened enough to keep the
handle from moving but not so tight as
to crush the plastic.

WARNING DANGER
IMPROPER ASSEMBLY OF THIS
TRIMMER CAN RESULT IN
SERIOUS INJURY. MAKE SURE TO
FOLLOW ALL INSTRUCTIONS
CAREFULLY.

IF YOU HAVE ANY QUESTIONS,
CONTACT YOUR LOCAL DEALER
OR OUR FACTORY AT
(215) 357-5110

3. Install the engine to the hedge trimmer by first aligning the hex drive on the trimmer gear housing with the hex socket in the engine. Slide the engine over the 1" diameter stem containing the hex drive on the gear housing until it is seated all the way down on the gear housing (see illustration below).
4. Press shock absorbers into sockets on the gear housing followed by the spacer tubes. Secure handle and tubing support channel, spacer, and bracket with the 1/4-20 hex bolts and locking nuts supplied (see illustration below).

With the stop switch in the stop position, engine not running, check the throttle for proper operation. Grasp rear handle with left hand, depressing the lockout trigger, squeeze the throttle trigger until it stops when the carburetor lever hits the carburetor case. Release the throttle trigger and make sure the throttle returns to the idle position, when the carburetor lever rests on the idle screw. Throttle movement should be smooth and unobstructed.

**BREAK-IN PROCEDURE**

There are no special requirements for engine break-in. After normal operation and two (2) tanks of fuel, engine break-in is complete.

If adjustments are necessary, follow Special Carburetor Adjustment Procedures on this supplementary Operator's Information Sheet. All other adjustments and maintenance procedures are in the complete Operator's Manual.

**IV. OPERATION**

**WARNING DANGER**

THE OPERATOR OF THIS HEDGE TRIMMER IS RESPONSIBLE FOR ACCIDENTS OR HAZARDS OCCURRING TO HIMSELF, OTHER PEOPLE OR THEIR PROPERTY.

**A. FUEL MIXTURE**

**WARNING DANGER**

FUEL IS EXTREMELY FLAMMABLE. HANDLE IT WITH CARE. KEEP AWAY FROM IGNITION SOURCES. DO NOT SMOKE WHILE FUELING YOUR EQUIPMENT.

Your Little Wonder hedge trimmer is powered by an Echo Model SV-4B(H) Type IE two stroke, air cooled engine which requires a fuel mixture of gasoline and lubricating oil.

**IMPORTANT ENGINE INFORMATION**

This unit is certified to operate on approved two-stroke fuel (a mixture of 2-stroke oil and gasoline/gasohol).

**FUEL STATEMENT**

Gasoline - Use 89 Octane [**89**] gasoline or gasohol known to be good quality. Gasohol may contain up to 10% Ethanol (grain alcohol) or 15% MTBE (methyl tertiary-butyl ether). Gasohol containing methanol (wood alcohol) is NOT approved.

**Two-Stroke Oil** - A two-stroke engine oil meeting proposed ISO-L-EGD Standard (ISO/CD 13738), must be used. LW brand Premium 50:1 oil meets this proposed standard. Engine problems due to inadequate lubrication caused by failure to use an ISO-L-EGD approved oil, such as LW Premium 50:1 Two-stroke Oil, will void the two-stroke engine warranty. (Emission related parts only are covered for two years, regardless of two-stroke oil used, per the statement listed in the EPA Phase I/California Emission Defect Warranty Explanation.)

**B. MIXING FUEL**

1. Pour 1/2 of the gasoline into a safe container. **DO NOT** mix fuel in the engine fuel tank.
2. Add the oil to the gasoline and mix.
3. Add the remaining gasoline and remix.
4. Install fuel cap and wipe spilled fuel from container and area.
5. **Important**, two stroke fuel separates and ages. Do not mix more than you will use in a month. Shake fuel container to thoroughly mix fuel before each use. Do not attempt to run your engine on gasoline only, use the proper fuel mixture.

**C. Starting a Cold Engine**
The trimmer has a Start/Stop ignition switch which must be used for starting and stopping the engine.

![Diagram for Single Sided Trimmers](image)

**FOR SINGLE SIDED TRIMMERS**

1. Place the hedge trimmer flat on the ground, or another stable surface. Slide the ignition switch to the START position.
2. Pull choke knob out to COLD START (closed) position.
3. Push primer bulb 3 to 4 times, or until fuel is visible in the clear fuel return line.
4. Pull starter rope until engine sputters. Use short pulls, 1/2 to 2/3 of the rope length.

![Diagram for Double Sided Trimmers](image)

**FOR DOUBLE SIDED TRIMMERS**

5. Push choke knob in to RUN position.
6. Restart engine and allow it to warm up for a minute or two.
7. With both hands on the handles, squeeze throttle trigger gradually, to increase the engine speed and engage the blades.

**NOTE:** Allow engine to warm up 2-3 minutes before use. Failure to do so will cause engine damage.

**D. Starting a Warm Engine**
1. Slide ignition switch to START position.
2. Push choke knob in to RUN (open) position.
3. If there is no fuel in the clear return line, push primer bulb 3-4 times or until fuel is visible in the line.
4. Pull starter rope using short pulls, 1/2 to 2/3 of the rope length.
5. If engine fails to start in 4 pulls, use cold start procedure.
6. With both hands on the handles, squeeze throttle trigger gradually to increase the engine speed and engage the blades.

**E. Starting a Flooded Engine**
1. Remove the cap from the spark plug and un-screw the plug with a spark plug wrench. If the end of the spark plug is wet, the engine may be flooded.
2. Disconnect spark plug wire and remove plug.
3. Use a paper towel or clean rag to dry the end of the spark plug.
4. Pull the choke knob out (closed position) and pull the starter rope several times.
5. Replace the spark plug and cap.
6. Push the choke knob in (open position) and pull starter rope three to four times.
7. Now pull the choke knob out (closed position) and pull the starter rope until the engine sputters.
8. Finally, push the choke knob in (open position) and pull the starter rope to start the engine.

**F. Stopping the Engine**

1. Release the throttle trigger and allow engine to idle.
2. Slide ignition switch to the STOP position.
3. Make sure blades have come to a complete stop before releasing either handle.

⚠️ WARNING DANGER ⚠️

*IF ENGINE DOES NOT STOP WHEN SWITCH IS Put in the STOP POSITION, Release THE THROTTLE TRIGGER, ALLOW ENGINE TO IDLE.*

*PUT THE TRIMMER DOWN, AND PULL THE CHOKE KNOB OUT TO COLD START, (CLOSED) POSITION.*

*CHECK AND REPLACE IGNITION SWITCH BEFORE STARTING ENGINE AGAIN.*
5. Tilt the trimmer so the cutting teeth are angled slightly toward the hedge or shrub and proceed to cut. Use overlapping sweeping motions away from your body to achieve a safe and even cut.

6. This unit is designed to cut any type of hedge or shrub; however, the thickness of cut should not exceed 1 inch in diameter.

Misuse of this Hedge Trimmer will void the warranty.

Ie: Cutting hedges or shrubs over 1" in diameter or foreign objects such as wires, rocks, or fences. Before trimming check work area for foreign objects such as wires, cords, glass, fences, or rocks. Be sure to remove any foreign objects from the work area. Failure to properly maintain this hedge trimmer will void the warranty.

V. MAINTENANCE

A. LUBRICATION

1. A few drops of a light #10 oil should be placed on the back edge of each blade guard at each adjusting screw approximately after every 4 hours of normal operation.

2. To obtain trouble free trimming, it is necessary to keep the blades lubricated and clean. The gum that collects and builds up on the blades can be removed with a 50-50 mixture of kerosene and #10 oil. As petroleum products can shorten the life of some plastics it is necessary to remove excess oil-kerosene mixture from the plastic parts.
3. When blades are replaced, or any other time that the bottom cover plate is removed, the grease level should be checked for proper amount (approximately 3/4 full in the area of the gears) and a new gasket should be used to insure proper seating of the cover plate. Use only Lubrico M3-3K-9K (P/N 16-78A) grease in the gear housing.

B. ENGINE
1. Air Filter
   a. Clean the air filter before each use. Remove wing nut and air filter cover.
   b. If filter is excessively dirty or no longer fits properly, replace it. Otherwise, carefully brush dirt from filter or clean if necessary. Allow to air dry.
   c. Re-install filter to inside cover making sure it is seated properly.
   d. Re-install cover onto air cleaner case and secure with wing nut.

2. Cooling Fins
   Remove dirt and debris from around cooling fins and exhaust before each use. Proper air circulation is essential for engine performance and life.

C. LONG TERM STORAGE (OVER 60 DAYS)
1. Store your trimmer in a dry and dust free space, out of the reach of children.

WARNING  DANGER
DO NOT STORE IN AN AREA WHERE FUEL FUMES MAY ACCUMULATE AND REACH A FLAME OR SPARK.

2. Place the ignition switch in the stop position.
3. Clean the engine and blades thoroughly and coat the blades with #10 oil to prevent rust.
4. Perform all required maintenance and service found in this manual.
5. Drain the fuel tank and pull the starter rope several times to remove the fuel from the carburetor.
6. Remove the spark plug and pour 1/4 oz. of fresh, clean, two-stroke engine oil into the cylinder via the spark plug hole. Cover the hole with a rag and pull the starter rope 2-3 times.
7. While looking through the spark plug hole pull the starter rope until the piston reaches the top of its stroke and stop.
8. Install the spark plug, but leave the ignition cable disconnected.
### VI. SERVICE

**A. TROUBLE SHOOTING**

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Blades don’t cut cleanly.</td>
<td>Blades are dull or not adjusted properly.</td>
<td>Have blades sharpened and adjusted.</td>
</tr>
<tr>
<td>2. Blades don’t move when throttle is depressed.</td>
<td>Engine is not seated properly on the gear housing. Blades are adjusted too tight.</td>
<td>Re-install engine following the assembly instructions. Re-adjust blades following service instructions.</td>
</tr>
<tr>
<td>4. Engine hard to start.</td>
<td>Water in gasoline or stale fuel mixture. Too much oil in fuel mixture. Engine under or over choked.</td>
<td>Drain entire system and refill with fresh fuel. Drain and refill with correct mixture. If flooded by over choking, proceed according to instructions in operation section. If under choked, move choke lever to closed position and crank two or three times. See “Carburetor Adjustment”. Replace gaskets. Contact your nearest authorized dealer.</td>
</tr>
<tr>
<td>5. Engine misses.</td>
<td>Dirt in fuel line or carburetor. Carburetor improperly adjusted. Sparkplug fouled, broken or incorrect gap setting. Weak spark at sparkplug.</td>
<td>Remove and clean. See “Carburetor Adjustment”. Clean or replace spark plug - set gap to 0.6-0.7 mm (.024-.028 in.). Contact your nearest authorized dealer.</td>
</tr>
</tbody>
</table>
**Trouble Shooting (Cont.)**

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Carburetor out of adjustment.</td>
<td>See &quot;Carburetor Adjustment&quot;.</td>
</tr>
<tr>
<td></td>
<td>Muffler clogged.</td>
<td>Clean carbon from muffler.</td>
</tr>
<tr>
<td></td>
<td>Clogged exhaust ports.</td>
<td>Remove muffler, rotate engine until the piston is at top of cylinder.</td>
</tr>
<tr>
<td></td>
<td>Clogged spark arrestor</td>
<td>With a wooden scraper or blunt tool, remove all carbon from exhaust ports.</td>
</tr>
<tr>
<td></td>
<td>Poor compression.</td>
<td>Be careful not to scratch or damage piston or cylinder walls.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blow out all loose carbon with compressed air.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Install muffler and gasket.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clean</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contact your nearest authorized dealer.</td>
</tr>
<tr>
<td>7. Engine overheats.</td>
<td>Insufficient oil in fuel mixture.</td>
<td>Mix fuel as described in starting instructions.</td>
</tr>
<tr>
<td></td>
<td>Air flow obstructed.</td>
<td>Clean flywheel, cylinder fins and screen.</td>
</tr>
<tr>
<td>8. Engine noisy or knocking.</td>
<td>Loose flywheel.</td>
<td>Tighten flywheel nut.</td>
</tr>
<tr>
<td></td>
<td>Spark plugs incorrect heat range.</td>
<td>Replace with plugs specified for engine.</td>
</tr>
<tr>
<td></td>
<td>Worn bearings, piston ring or cylinder walls.</td>
<td>Contact your nearest authorized dealer.</td>
</tr>
<tr>
<td></td>
<td>Engine overheats.</td>
<td>Remove dust and dirt from between cylinder fins.</td>
</tr>
</tbody>
</table>

**B. Engine Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Weight</td>
<td>2.5 kg — 5 lbs., 10 ounces</td>
</tr>
<tr>
<td>Type of Engine</td>
<td>Air cooled, Two stroke, Single-Cylinder, Gasoline Engine</td>
</tr>
<tr>
<td>Rotation</td>
<td>Clockwise, viewed from TOP</td>
</tr>
<tr>
<td>Bore</td>
<td>32.2 mm (1.268 in.)</td>
</tr>
<tr>
<td>Stroke</td>
<td>26.0 mm (1.04 in.)</td>
</tr>
<tr>
<td>Spark Plug</td>
<td>NGKII BPM7Y, The spark plug gap is 0.65 mm (0.026&quot;) Refer to Operator's Manual, for service Procedure</td>
</tr>
<tr>
<td>Fuel</td>
<td>Premixed two stroke fuel</td>
</tr>
<tr>
<td>Fuel Oil Ratio</td>
<td>50:1 ratio with ECHO oil</td>
</tr>
<tr>
<td>Gasoline</td>
<td>Unleaded, 89 octane or higher</td>
</tr>
<tr>
<td>Displacement</td>
<td>21.2 cc (1.294 cu. in.)</td>
</tr>
<tr>
<td>Exhaust System</td>
<td>Spark arrestor muffler</td>
</tr>
<tr>
<td>Carburetor</td>
<td>ZAMA diaphragm model C1U type. RPM at idle 2800 : 250 RPM</td>
</tr>
<tr>
<td>Ignition System</td>
<td>There are no adjustments required for the ignition</td>
</tr>
</tbody>
</table>
**B. ENGINE SPECIFICATIONS (CONTINUED)**

Clutch: Centrifugal type  
Ignition System: Flywheel magneto, capacitor discharge ignition type

**C. SERVICE MAINTENANCE GUIDE**

<table>
<thead>
<tr>
<th>Area</th>
<th>Maintenance</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Filter</td>
<td>Clean, Replace</td>
<td>Daily or every 4 hrs. use</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Every 3 mths. or 100 hrs. use</td>
</tr>
<tr>
<td>Fuel Filter</td>
<td>Inspect / Replace</td>
<td>Monthly</td>
</tr>
<tr>
<td>Spark Plug</td>
<td>Clean, Replace</td>
<td>Every 3 mths. or 100 hrs. use</td>
</tr>
<tr>
<td>Carburetor</td>
<td>Check / Rebuild, Replace</td>
<td>6 months or 300 hrs. use</td>
</tr>
<tr>
<td>Cooling System</td>
<td>Inspect / Clean</td>
<td>6 months or 300 hrs. use</td>
</tr>
<tr>
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<td>Check Grease</td>
<td>Before Use</td>
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<td>Blades</td>
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<tr>
<td>Fuel Leaks</td>
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<td>Fasteners</td>
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<td>Labels</td>
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<tr>
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<td>Ignition System</td>
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<td>For coil and flywheel</td>
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1. Replacement will be required for commercial use after 600 hours. For Consumer use, cleaning every 6 months is required. Cleaning includes Rebuild Kits.

**IMPORTANT** - Time Intervals shown are maximum. Actual use and your experience will determine the frequency of required maintenance.

**D. BLADE ADJUSTMENT**

The care and adjustment of the blades is very important to the efficient operation of the trimmer and especially to the long life of the engine.

1. Place trimmer in vise, clamping on the frame bar. **Be careful! Blades are sharp!**

2. Using a 7/16" wrench, loosen all blade locknuts and unscrew the large head screws by two turns.

3. Starting with the screw nearest the gear housing, tighten the screw until the blade guard of the Single Sided trimmer or the protective comb of the Double Sided trimmer can just be moved with finger pressure and a .0015" (1 1/2 thou.) feeler blade just slips under the blade.
guard or comb. Tighten the locknuts while holding the screw stationary in its correct adjusted position.

4. Repeat Step 3 on the screws in turn until all are correctly adjusted.

**NOTE:** **CORRECT BLADE ADJUSTMENT CAN ONLY BE ACHIEVED ON CLEAN, OILED BLADES.**

### E. Carburetor Adjustment (as needed)

#### 1. General

**NOTE:** The diaphragm carburetor has three external adjustments. Each adjustment affects the others.

The idle speed adjustment screw controls the throttle opening at idle position.

The low (LO) speed adjustment screw controls the volume of fuel mixture at low engine speed. It also controls the supplementary fuel required to obtain smooth progression from idling to high speed.

The high (HI) speed adjustment screw controls the volume of fuel mixture at full throttle.

#### 2. Carburetor Adjustment

Every unit is run at the factory and the carburetor is set in compliance with EPA Phase I / California Emission Regulations. In addition, the carburetor is equipped with HI and LO needle adjustment limiters that prevent settings outside acceptable limits.

**NOTE:** The needle screws have a sharp point. To avoid damage to the carburetor, do not use excessive force.

1. Before adjusting carburetor clean or replace air filter and muffler. "Spark Arrestor Screen".

2. Make sure the cutting attachment such as hedge clipper blades are properly adjusted.

3. Start engine and run several minutes to bring to operating temperature. Flash choke twice during warm-up to clear any air from the fuel system.

**WARNING DANGER**

KEEP HANDS AWAY FROM THE BLADES WHILE SERVICING THE HEDGE TRIMMER. BE SURE TRIMMER IS SECURED AND BLADES ARE GUARDED WHILE MAKING ADJUSTMENTS

**NOTE:** The Idle speed screws may have to be re-adjusted to keep engine from stalling. The Engine must be at normal operating temperature to adjust properly.
4. Stop engine. Turn HI speed needle CCW to stop. Turn LO speed needle midway between full CW stop and CCW stop.

5. Idle Speed Adjustment

A. Units with Cutting Attachments. Turn "idle" speed adjustment screw CW (clockwise) until cutting attachment begins to turn, then turn screw out CCW (counter clockwise) until attachment stops turning. Turn screw out, CCW, an additional 1/4 turn.

6. Start unit and accelerate to full throttle for 2-3 seconds to clear any excess fuel in the engine, then return to idle. Accelerate engine to full throttle to check for smooth transition from idle to high speed. If engine hesitates turn LO needle CCW 1/8 turn and repeat acceleration. Continue adjustment until smooth acceleration results.

7. Check idle speed and reset if necessary as described in item 4. If a tachometer is available idle speed should be set as specified in the Operator's Manual.

**IMPORTANT: DO NOT RUN THE ENGINE AT FULL ThROTTLE OR WITH NO LOAD FOR MORE THAN 5-6 SECONDS TO AVOID ENGINE DAMAGE.**

Note: This hedge trimmer is equipped with a speed limiting carburetor (the high speed circuit has a by-pass system). With this feature the engine will continue to run even with the high speed adjusting screw turned all the way in. Although the engine will continue to run, it will only produce full power with the HI adjusting screw opened to about 3/8 to 1/2 turn.
## Parts Explosions

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### Gear Housing Assembly
### SV-4B (H) TYPE 1E CYLINDER COVER, MUFFLER

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*Includes with Item 20*
EMISSIONS DEFECT
WARRANTY EXPLANATION

This is additional detailed information about the EPA PHASE I and the CALIFORNIA EMISSIONS DEFECT WARRANTY for your utility and/or lawn and garden equipment engine.

WHAT DOES THIS WARRANTY COVER?

The Manufacturer warrants that your unit was designed, built and equipped to conform with applicable EPA Phase I/California emissions standards and that your unit is free from defects in material and workmanship that would cause it to fail to conform with applicable requirements within two (2) years. The warranty period begins on the date the product is delivered to a retail purchaser. This is your emission control system, DEFECTS WARRANTY.

HOW WILL A COVERED PART BE CORRECTED?

If there is a defect in a part covered by this warranty, The Manufacturer's Authorized Service Dealer will correct the defect.

You will not have to pay anything to have the part adjusted, repaired or replaced. This includes any labor and diagnosis for warranted repairs performed by the dealer. In addition, engine parts not expressly covered under this warranty but whose failure is a result of a failure of a covered part will be warranted.

Emissions System repairs covered under this warranty should be completed in a reasonable time, not to exceed 30 days.

IMPORTANT

If the diagnosis reveals no defect, the emission defect warranty does not apply.

WHAT PARTS ARE COVERED BY THE EPA PHASE I/CALIFORNIA EMISSIONS DEFECT WARRANTY?

• Any emission related part not scheduled for, "required maintenance" (See Engine Operators Manual, "SERVICE MAINTENANCE SCHEDULE") will be repaired or replaced within the warranty period. The repaired or replaced part will be warranted for the remaining Emissions Defect warranty period.

• Any emission related part scheduled for replacement during "required maintenance" (See Engine Operators Manual, "SERVICE MAINTENANCE SCHEDULE") is warranted for the period of time prior to the first scheduled replacement point for that part. Any such part repaired or replaced under warranty shall be warranted for the remainder of the period prior to the first scheduled replacement point for that part.

• Any manufacturer-approved replacement part may be used in the performance of any warranty maintenance or repairs on emission-related parts, and must be provided without charge if the part is still under warranty.

• Any replacement part that is equivalent in performance and durability may be used in non-warranty maintenance or repairs, and shall not reduce the warranty obligations of the manufacturer.

• The owner is responsible for the performance of the required maintenance described in the operators manual.

SPECIFIC EMISSION RELATED WARRANTED PARTS:

Carburetor (complete assembly or replaceable components)
Air Filter
Electronic Ignition System
Spark Plug

WHAT IS NOT COVERED BY THE EMISSIONS DEFECT WARRANTY?

• Any failure caused by abuse, neglect, improper maintenance.

• Any failure caused by unapproved modifications, use of unapproved add-on parts/modified parts or unapproved accessories.
EMISSION CONTROL
WARRANTY STATEMENT

EPA Phase I; California Air Resources Board, and your Equipment Manufacturer are pleased to explain the emission control system warranty on your (year) utility or lawn and garden equipment engine. New utility and lawn and garden equipment engines must be designed, built and equipped to meet stringent EPA Phase I/California anti-smog standards. Echo, Incorporated must warrant the emission control system on your utility or lawn and garden equipment engine for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your utility or lawn and garden equipment engine.

Your emission control system may include parts such as the carburetor fuel system, and the ignition system. Also included may be hoses, belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, The Manufacturer will repair your utility or lawn and garden equipment engine at no cost to you including diagnosis, parts and labor.

MANUFACTURER’S WARRANTY COVERAGE:

The 1996 and later utility and lawn and garden equipment engines are warranted for two years. If any emission-related part on your engine is defective, the part will be repaired or replaced by The Manufacturer.

OWNER’S WARRANTY RESPONSIBILITIES:

- As the utility or lawn and garden equipment engine owner, you are responsible for the performance of the required maintenance listed in your Operators Manual. The Manufacturer recommends that you retain all receipts covering maintenance on your utility or lawn and garden equipment engine, but The Manufacturer cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

- As the utility or lawn and garden equipment engine owner, you should however be aware that The Manufacturer may deny you warranty coverage if your utility or lawn and garden equipment engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

- You are responsible for presenting your utility or lawn and garden equipment engine to an The Manufacturer authorized service center as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact your Product Manufacturer.

03/97
5 YEAR LIMITED SERVICE & WARRANTY POLICY
FOR GASOLINE HEDGE TRIMMERS

All Little Wonder Gasoline Hedge Trimmers are guaranteed against defects in material and workmanship for a period of FIVE YEARS from date of purchase, when used for RESIDENTIAL SERVICE, or COMMERCIAL SERVICE. Any Little Wonder Gasoline Hedge Trimmer or part found to be defective within the warranty period is to be returned to any registered Little Wonder Dealer.

Engines for all gasoline powered products are warranted separately by the engine manufacture for a period of a year. Therefore, there are no warranties made, expressed or implied, for engines for gasoline powered products by Little Wonder.

Transportation charges for parts and units submitted for replacement under this warranty must be borne by the purchaser.

THIS WARRANTY shall not be effective if the product has been subject to misuse, negligence or accident, used in cutting hedges or shrubs greater than 1" in diameter, used to cut foreign objects such as wire, rocks, or fences, or if the product has been repaired or altered outside of our Southampton factory in any respect which affects its condition or operation.

LITTLE WONDER shall not be liable for any special indirect or consequential damages arising from defective equipment. Any implied warranty, including merchantability of fitness for a particular purpose, shall not extend beyond the written warranty period.

THIS WARRANTY shall only be effective if the enclosed Warranty/Registration card is properly filled out and returned to Little Wonder, Div. of Schiller-Pfeiffer, Inc. at time of purchase.

⚠️ Warning: The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

LITTLE WONDER®
DIVISION OF SCHILLER-PFEIFFER, INCORPORATED
1028 STREET ROAD, P.O. BOX 38
SOUTHAMPTON, PA 18966
PHONE 215-357-5110 • FAX 215-357-8045

Specifications, descriptions, and illustrative material in this literature are as accurate as known at the time of publication, but are subject to change without notice.