



Grass Trimmer/Brush Cutter

Operator's Manual

MODEL

SRM-3400

Serial Number 541793 & Up

WARNING **DANGER**



The muffler or catalytic muffler and surrounding cover may become extremely hot.

Always keep clear of exhaust and muffler area, otherwise serious personal injury may occur.



WARNING



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



WARNING **DANGER**

Read rules for safe operation and instructions carefully. ECHO provides an Operator's Manual and a Safety Manual. Both must be read and understood for proper and safe operation.

INTRODUCTION

Welcome to the ECHO family. This ECHO product was designed and manufactured to provide long life and on-the-job dependability. Read and understand this manual and the SAFETY MANUAL you found in the same package. You will find both easy to use and full of helpful operating tips and SAFETY messages.

THE OPERATOR'S MANUAL

Read and understand this manual before operation. Keep it in a safe place for future reference. Contains specifications and information for operation, starting, stopping, maintenance, storage and assembly specific to this product.

THE SAFETY MANUAL

Read and understand this manual before operation. Keep it in a safe place for future reference. Explains possible hazards involved with the use of Grass Trimmers and Brush Cutters and what measures you should take to make their use safer.

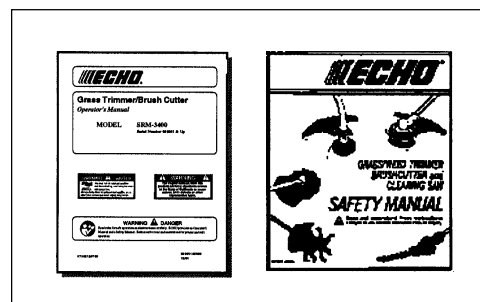


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Specifications, descriptions and illustrative material in this literature are as accurate as known at the time of publication, but are subject to change without notice. Illustrations may include optional equipment and accessories, and may not include all standard equipment.

MANUAL SAFETY SYMBOLS AND IMPORTANT INFORMATION

Throughout this manual and on the product itself, you will find safety alerts and helpful, information messages preceded by symbols or key words. The following is an explanation of those symbols and key words and what they mean to you.



This symbol accompanied by the words **WARNING** and **DANGER** calls attention to an act or condition that can lead to serious personal injury to operator and bystanders.



The circle with the slash symbol means whatever is shown within the circle is prohibited.



IMPORTANT The enclosed message provides information necessary for the protection of the unit.

NOTE This enclosed message provides tips for use, care and maintenance of the unit.

SAFETY

DECALS

Locate these safety decals on your unit. The complete unit illustration, found in the "DESCRIPTION" section, will help you locate them. Make sure the decals are legible and that you understand and follow the instructions on them. If a decal cannot be read, a new one can be ordered from your ECHO dealer. See PARTS ORDERING instructions for specific information.

Shaft Decal

Spanish Decal



89017740630

ADVERTENCIA PELIGRO

Esta unidad puede ser peligrosa y producir lesiones personales graves si no se usa en forma adecuada. Para reducir el riesgo de lesionarse, los operadores, los ayudantes y los espectadores deben leer y comprender el Manual Del Operador y los Manuales De Seguridad que se entregan escritos en español.

DEBRIS SHIELD DECAL



English Translation

WARNING DANGER

This unit can be dangerous and cause serious injury if improperly used. To reduce injury risk to operator, helpers and bystanders, read and understand the Operator's and Safety Manuals, which are provided in Spanish.

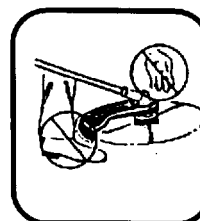
Shaft Decal

WARNING



DANGER

- This unit can be dangerous and cause serious injury if improperly used. To reduce injury risk to operator, helpers and bystanders, read and understand the Operator's and Safety manuals.
- Blindness can occur from objects that are thrown or ricocheted even with shield in place. Operators, helpers and bystanders must wear ANSI Z87.1 approved eye protection.
- Always wear hearing protection when operating unit.
- Prevent accidental contact with unit and any cutting attachment. Maintain a 15 m (50 ft.) radius, **DANGER ZONE** surrounding the operator. **ONLY** the operator, dressed in proper protective clothing should be in the **DANGER ZONE**.
- Beware of **KICKOUT (blade thrust)** when using blades. Special precautions are necessary for blade operation, see your Operator's and Safety Manuals. **ONLY** install ECHO approved blades on Brush Cutters (SRM) models equipped with proper blade shield, U-handles, harness, blade collar, nut and cotter pin.
- Blade/Cutting attachment does not stop immediately after releasing throttle. Keep hands and feet clear of blade/cutting attachment unless engine is shut off and cutting attachment is not moving.
- **INSPECT BLADES BEFORE USE.**
- **DO NOT USE DAMAGED, CRACKED, BENT, DULL OR IMPROPERLY SHARPENED BLADES.**
- Do not remove shields, modify the unit or install attachments or parts not approved by ECHO. Approved attachment information and replacement Operator's and Safety Manuals are available from your ECHO dealer or by writing: **ECHO, INCORPORATED, 400 OAKWOOD RD., LAKE ZURICH, IL 60047.**



INTERNATIONAL SYMBOLS

Symbol form/shape	Symbol description/application	Symbol form/shape	Symbol description/application
	"WARNING, SEE OPERATOR'S MANUAL"		Hot Surface
	Wear eyes, ears and head protection		Finger Severing
	Wear hand and foot protection		DO NOT allow flames or sparks near fuel.
	Safety/Alert		DO NOT smoke near fuel.
	Keep bystanders and helpers away 15 m (50 ft.).		

Symbol form/shape	Symbol description/application	Symbol form/shape	Symbol description/application
	Emergency stop		Fuel and oil mixture
	Carburetor adjustment - High speed mixture		Primer Bulb
	Carburetor adjustment - Idle speed		Ignition ON/OFF
	Carburetor adjustment - Low speed mixture		Engine choke control.

SAFETY INSTRUCTIONS

PERSONAL CONDITION AND SAFETY EQUIPMENT

WARNING DANGER

Trimmer/Brush Cutter users risk injury to themselves and others if the trimmer/brush cutter is used improperly and or safety precautions are not followed. Proper clothing and safety gear must be worn when operating a trimmer.

Eye Protection

Wear eye protection that meets ANSI Z87.1 or CE requirements whenever you operate the trimmer.

Hand Protection

Wear no-slip, heavy duty work gloves to improve your grip on the Trimmer/Brush Cutter handles. Gloves also reduce the transmission of machine vibration to your hands.

Hearing Protection

ECHO recommends wearing hearing protection whenever unit is used.

Proper Clothing

Wear snug fitting, durable clothing;

- Pants should have long legs, shirts with long sleeves.
- DO NOT WEAR SHORTS,
- DO NOT WEAR TIES, SCARVES, JEWELRY.

Wear sturdy work shoes with non-skid soles;

- DO NOT WEAR OPEN TOED SHOES,
- DO NOT OPERATE UNIT BAREFOOTED.

EXTENDED OPERATION/EXTREME CONDITIONS

Vibration and Cold

It is believed that a condition called Raynaud's Phenomenon, which affects the fingers of certain individuals may be brought about by exposure to vibration and cold. Exposure to vibration and cold may cause tingling and burning sensations followed by loss of color and numbness in the fingers. The following precautions are strongly recommended because the minimum exposure which might trigger the ailment is unknown.

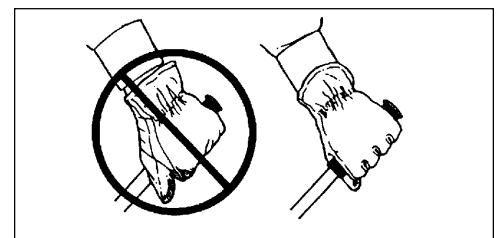
- Keep your body warm, especially the head, neck, feet, ankles, hands and wrists.
- Maintain good blood circulation by performing vigorous arm exercises during frequent work breaks and also by not smoking.
- Limit the hours of operation. Try to fill each day with jobs where operating the trimmer or other hand-held power equipment is not required.
- If you experience discomfort, redness and swelling of the fingers followed by whitening and loss of feeling, consult your physician before further exposing yourself to cold and vibration.

Repetitive Stress Injuries

It is believed that overusing the muscles and tendons of the fingers, hands, arms and shoulders may cause soreness, swelling, numbness, weakness and extreme pain in those areas. Certain repetitive hand activities may put you at a high risk for developing a Repetitive Stress Injury (RSI). An extreme RSI condition is Carpal Tunnel Syndrome (CTS), which could occur when your wrist swells and squeezes a vital nerve that runs through the area. Some believe that prolonged exposure to vibration may contribute to CTS. CTS can cause severe pain for months or even years.

To reduce the risk of RSI/CTS, do the following:

- Avoid using your wrist in a bent, extended or twisted position. Instead try to maintain a straight wrist position. Also, when grasping, use your whole hand, not just the thumb and index finger.
- Take periodic breaks to minimize repetition and rest your hands.
- Reduce the speed and force with which you do the repetitive movement.
- Do exercises to strengthen the hand and arm muscles.
- Immediately stop using all power equipment and consult a doctor if you feel tingling, numbness or pain in the fingers, hands, wrists or arms. The sooner RSI/CTS is diagnosed, the more likely permanent nerve and muscle damage can be prevented.



EQUIPMENT

WARNING DANGER

Use only ECHO approved attachments. Serious injury may result from the use of a non approved attachment combination. ECHO, INC. will not be responsible for the failure of cutting devices, attachments or accessories which have not been tested and approved by ECHO. Read and comply with all safety instructions listed in this manual and safety manual.

- Check unit for loose/missing nuts, bolts and screws. Tighten and/or replace as needed.
- Inspect fuel lines, tank and area around carburetor for fuel leaks. DO NOT operate unit if leaks are found.
- Inspect shield for damage and ensure that the cut-off knife is securely in place. Replace if either is damaged or missing.
- Check that the cutting attachment is firmly attached and in safe operating condition.
- Check that front loop handle and shoulder strap/ or shoulder/ waist harness are adjusted for safe, comfortable operation. See Assembly Section for proper adjustment.
- Keep exhaust area clear of flammable debris. Avoid contact during and immediately after operation.



SAFE OPERATION

WARNING DANGER

Do not operate this product indoors or in inadequately ventilated areas. Engine exhaust contains poisonous emissions and can cause serious injury or death.

Provide all operators of this equipment with the Operator's Manual and instructions for safe operation.

Keep A Firm Grip

- Hold the front and rear handles with both hands with thumbs and fingers encircling the handles

Keep A Solid Stance

- Maintain footing and balance at all times. Do not stand on slippery, uneven or unstable surfaces. Do not work in odd positions or on ladders. Do not over reach.



EMISSION CONTROL

The emission control system for these engines is EM (Engine Modification).

An Emission Control Label is located on the engine. (This is an EXAMPLE ONLY, information on label varies by engine FAMILY).

IMPORTANT ENGINE INFORMATION

ENGINE FAMILY: SEH034UB24RA
DISPLACEMENT: 34.0 cc
THIS ENGINE MEETS U.S. EPA PH1 EMISSION REGULATIONS FOR SMALL NON ROAD ENGINES. REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.



KOATZ CORP.



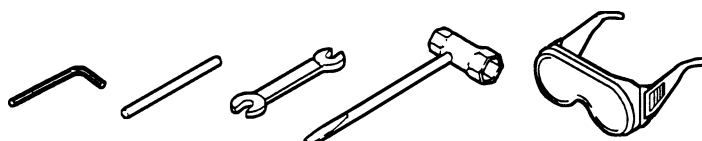
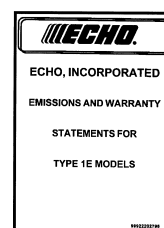
DESCRIPTION

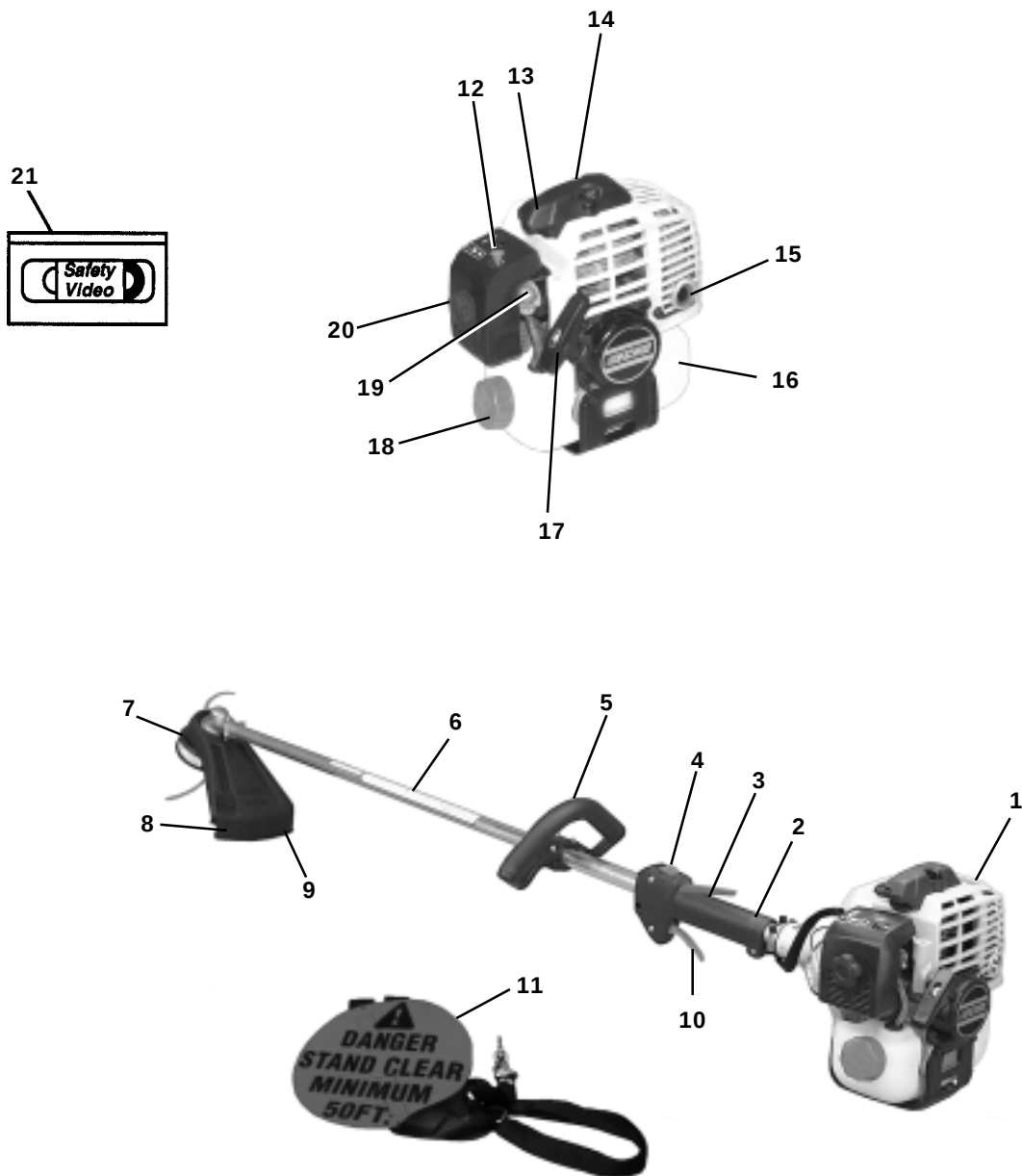
The ECHO product you purchased has been factory pre-assembled for your convenience. Due to packaging restrictions, shield installation and other assembly may be necessary.

After opening the carton, check for damage. Immediately notify your retailer or ECHO Dealer of damaged or missing parts. Use the contents list to check for missing parts.

CONTENTS

- 1 - Power Head
- 1 - Drive Shaft Assembly
- 1 - Plastic Bag (co-pack)
 - 1, Operator's Manual
 - 1, Safety Manual
 - 1, Warranty Registration Card
 - 1, Limited Warranty Statement
 - 1, Plastic shield
 - 1, Tool Bag
 - 1, 8mm x 10mm wrench
 - 1, screwdriver
 - 1, locking tool
 - 1, L-Hex Wrench
 - 1, Nylon Trimmer Head
 - 1, Safety Glasses
 - 1, 2-Stroke Oil Sample, 2.6 oz.
 - 1, Shoulder Harness
 - 1, Front Handle (L.H.) Assembly
 - 1, Plastic Bag
 - 1, shield plate
 - 3, 5mm x 18mm screws (shield mtg.)
 - 1, metal shield
 - 1, bracket
 - 1, Plastic Bag
 - 3, 5mm x 15mm screws (shield mount)
 - 2, 5mm x 8mm screws (bracket to shield)
 - 4, 5mm nuts
 - 4, 5mm lockwashers





1. **POWER HEAD** - Includes the Engine, Clutch, Fuel System, Ignition System and Recoil Starter.
2. **GRIP** - Rear (right hand) handle.
3. **THROTTLE TRIGGER LOCKOUT** - This lever must be held during acceleration. Operation of the throttle trigger is prevented unless throttle trigger lockout lever is engaged.
4. **STOP SWITCH** - "SLIDE SWITCH" mounted on top of the Throttle Trigger Housing. Move switch FORWARD to RUN, BACK to STOP.
5. **FRONT HANDLE** - The Front (loop) handle is not factory assembled to the Drive Shaft assembly (some models) and must be positioned for proper cutting attitude and operator comfort.
6. **DRIVE SHAFT ASSEMBLY** - Includes the Rear (right hand) Handle assembly, Gear Housing assembly, Front (loop, left hand) Handle assembly, Flexible Drive Cable (solid steel drive shaft) and Safety Decal.
7. **NYLON CUTTING ATTACHMENT** - Contains replaceable nylon trimming line that advances when the trimmer head is tapped against the ground while the head is turning at normal operating speed.
8. **CUT-OFF KNIFE** - Automatically trims line to the correct length: 5" after head is tapped on the ground. If trimmer is operated without a cut-off knife the line will become too long, the engine will overheat and engine damage may occur.
9. **PLASTIC DEBRIS SHIELD ASSEMBLY** - Included in plastic bag (co-pack). **MUST** be installed on unit before use, see Assembly Instructions. Shield assembly includes the Cut-Off Knife and Safety Decal. Mounts on the Gear Housing Assembly just above the cutting attachment. Helps protect the operator by deflecting debris produced during the trimming operation. This shield must be replaced with the steel shield for blade use.
10. **THROTTLE TRIGGER** - Spring loaded to return to idle when released. During acceleration, press trigger gradually for best operating technique.
11. **SHOULDER HARNESS** - An adjustable strap that suspends the unit from the operator. Using the strap reduces operator fatigue.
12. **CHOKE** - The choke control is located on the top of the air filter case. Pull choke knob up to close the choke for cold starting. Push knob down for the "RUN" position.
13. **SPARK PLUG** - Provides spark to ignite fuel mixture.
14. **ARM REST** - Provides arm rest during operation and protects arm from the hot engine.
15. **MUFFLER/SPARK ARRESTER** - The muffler controls the exhaust noise while the spark arrester prevents hot, glowing particles of carbon from leaving the muffler where they could possibly start a fire.
16. **FUEL TANK** - Contains fuel and fuel filter.
17. **RECOIL STARTER HANDLE** - Pull handle slowly until starter engages, then quickly and firmly. When engine starts, return handle slowly. DO NOT let handle snap back or damage to unit will occur.
18. **FUEL TANK CAP** - Covers and seals fuel tank opening.
19. **PRIMER BULB** - Pumping primer bulb before starting engine draws fresh fuel from the fuel tank priming the carburetor for starting. Pump primer bulb until fuel is visible and flows freely in the clear fuel tank return line. Pump bulb an additional 4 or 5 times.
20. **AIR CLEANER** - Contains replaceable filter element.
21. **SAFETY VIDEO** - (Not included with unit) P/N 99922202540 English version only is available at a cost of \$5.00 from ECHO, INC. or any authorized ECHO dealer. The video overviews safety precautions and proper operating techniques and is supplemental to the Safety Manual. Read and understand the Safety Manual for complete information on safe operation.

SPECIFICATIONS

MODEL	SRM-3400
Length	1530 mm (60.2 in.)
Width	330 mm (13.0 in.)
Height	260 mm (10.2 in.)
Weight (dry) w/Cutter Head	7.1 kg (15.7 lb.)
Engine Type	Air cooled, two-stroke, single cylinder gasoline engine
Bore	38.0 mm (1.50 in.)
Stroke	30.0mm (1.18 in.)
Displacement	34.0 cc (2.08 cu. in.)
Exhaust	Spark Arrestor Muffler
Carburetor	Walbro diaphragm model WT w/purge
Ignition System	Flywheel magneto, capacitor discharge
Spark Plug	NGK BPM-7A, (Gap 0.65 mm (0.026 in.)
Fuel	Mixed (Gasoline and Two-stroke Oil)
Fuel/Oil Ratio	50:1 ECHO High Performance, two-stroke air cooled engine oil
Gasoline	89 Octane unleaded. DO NOT use fuel containing methyl alcohol, more than 10% ethyl alcohol or 15% MTBE.
Oil	50:1 ECHO High Performance, two-stroke air cooled engine oil
Fuel Tank Capacity	0.8 lit. (27.1 US fl. oz.)
Starter System	Automatic Recoil Starter
Clutch	Centrifugal Type
Drive Shaft	8mm Spline Steel Shaft
Rotating Direction	Counter Clockwise viewed from top
Cutter Head	Nylon line head (2-line)
Handles*	Front-Loop, Right Grip Standard
U-Handle	Optional
Shoulder Harness	Standard
Idle Speed	2400 - 3000 RPM
Wide Open Throttle Speed (W.O.T.) with Nylon Line Head	8500 - 9500 RPM
Wide Open Throttle Speed (W.O.T.) with Blade	9500 - 11000 RPM

* Install and use U-Handle when operating any model with blade.

ASSEMBLY

DRIVE SHAFT/POWER HEAD

Tools Required: 8mm x 10mm Open End Wrench, 4mm Hex Wrench

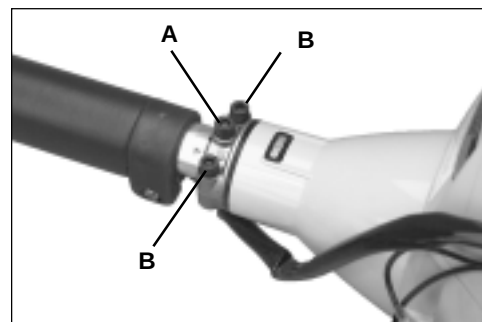
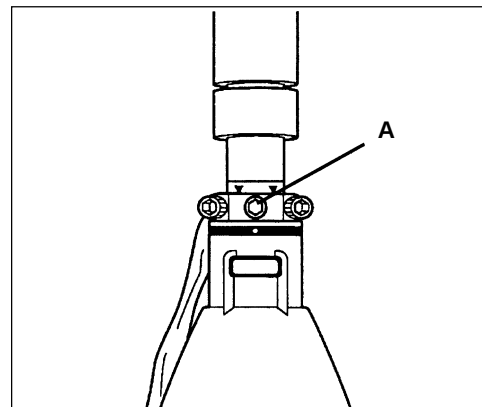
Parts Required: Power head, Drive shaft Assembly

1. Stand powerhead upright on a level surface.
2. Loosen, the two (2) bolts at engine drive shaft clamps, and remove center drive shaft location bolt (A).
3. Carefully fit driveshaft assembly to engine making sure that inner drive shaft engages into clutch mount..

NOTE

Lower bearing housing and head assembly must be in line with the engine.

4. Turn drive shaft housing until locating hole lines up with location hole in clamp and install center drive shaft location bolt (A).
5. Tighten two (2) drive shaft clamp bolts (B).



PLASTIC SHIELD INSTALLATION

(for Nylon Line Operation)

Tools Required: Screwdriver.

Parts Required: Plastic Shield, Shield Plate, three (3) 5mm x 18mm screws.

NOTE

The plastic shield is for use with the Nylon Line Head only. Install Metal Shield when using plastic or metal blades.

1. Install the shield on the bottom of the bearing housing flange.
2. Place shield plate on shield, align holes and install three (3) screws.

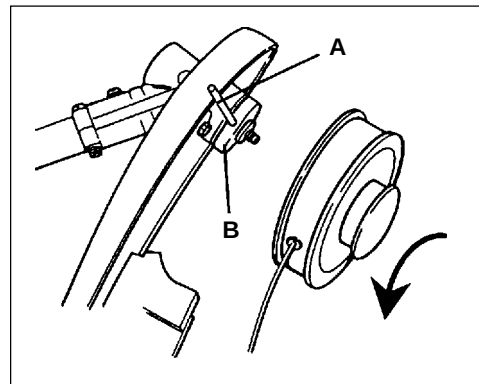


NYLON LINE HEAD INSTALLATION

Tools Required: Head Locking Tool, 17x19mm Scrench

Parts Required: Nylon Line Head.

1. Align locking hole in upper plate (B) with notch in edge of gear housing and insert head locking tool (A).
2. Remove split pin from hole in PTO shaft.
3. Remove 10mm nut by turning it clockwise (as viewed from underside of grass shield) with 17x19mm scrench.
4. Remove lower plate. Retain lower plate, 10mm nut and split pin for future use.
5. Be sure upper plate (B) remains on PTO shaft.
6. Thread line head onto PTO shaft by turning it counter clockwise until head is tight against upper plate (B).



BLADE INSTALLATION

IMPORTANT

If non-standard monofilament head, METAL/PLASTIC blade or cultivator etc. is used, THE CARBURETOR MUST BE RE-SET or serious engine damage may occur. See "Carburetor Adjustment" page 27 and "Specification" page 10 of this manual for proper adjustment setting.

WARNING DANGER

You must install a U-Handle Kit and Blade Conversion kit before operating this unit using metal blades, otherwise serious injury may result.

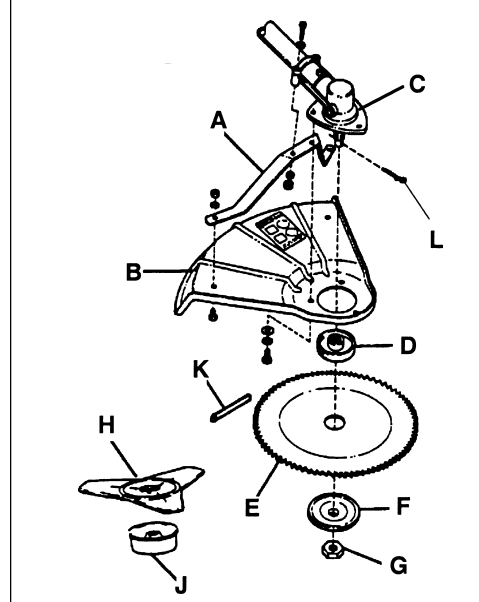
Install Metal Shield

Tools Required: 8mm x 10mm Open End Wrench, Screwdriver, Srench.

Parts Required: Metal Shield, Bracket, 3- 5mm x 15mm screws w/captivated flat and lockwasher (metal shield to gear housing), 2- 5mm x 8mm screws, 4- 5mm nuts, 4- 5mm lockwashers (bracket to shield and bracket to gear housing).

1. If necessary, remove nylon line head and plastic shield.
2. Loosely attach bracket (A) to shield (B) and attach to bottom of gear housing (C) with screws and nuts provided. Tighten all attaching hardware.

BLADE UPPER PLATE

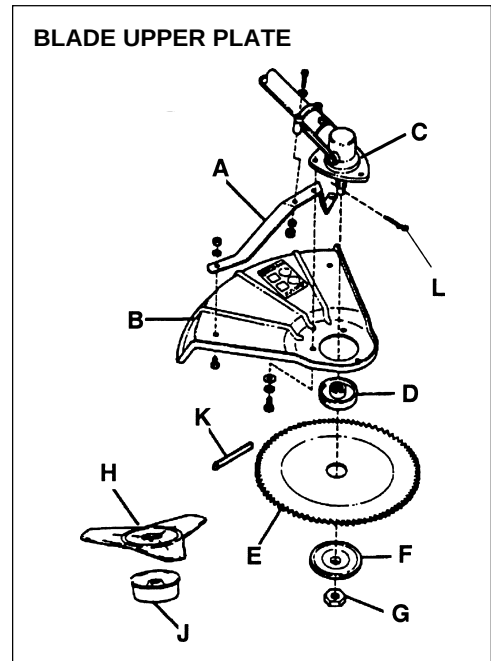


Install Blade

Tools Required: Locking Tool, screwdriver.

Parts Required: Upper Plate w/ 20mm pilot, Lower Plate, 10mm Nut w/LH threads, 2mm x 25mm Split Pin (cotter pin).

3. Install upper plate (D) on splined PTO shaft. Blade installation requires use of Upper Plate (D) with 20mm pilot (SRM-3100 models), 25.4mm pilot (SRM-3400 models).
4. Place Blade (E) over upper plate pilot, install the Lower Plate (F) and 10mm LH nut (G). Tri-Cut Blade (H) is installed with Glide Cup (J).
5. Insert Locking Tool (K) through hole in upper plate and notch in gear housing to prevent splined shaft from turning. Tighten nut and secure with Split Pin (L).



HARNESS CLAMP INSTALLATION

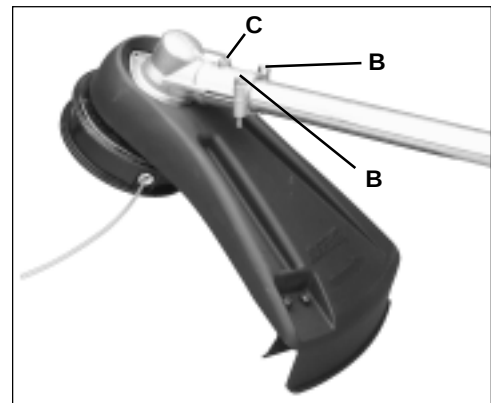
NOTE

Some models require installation of Harness Clamp. If your unit does not have a clamp, follow these directions.

Tools Required: Screwdriver, 8mm x 10mm Open End Wrench.

Parts Required: Harness Clamp, 4mm x 18mm Hexagon Head Bolt, Link.

6. Remove shield and gear housing as an assembly.
 - a. Loosen two (2) screws (B) that clamp the gear housing to the drive shaft housing.
 - b. Remove locating screw (C) found at the top of the gear housing. Pull shield and gear housing assembly from the drive shaft assembly.



IMPORTANT

Prevent flexible drive cable/shaft from sliding from drive shaft housing. If cable/shaft does slide free, clean dirt from cable/shaft and re-lubricate cable only with lithium based grease prior to re-assembly.

7. Remove front handle.
 - a. Remove four (4) screws and nuts and handle support from handle.
 - b. Remove front handle.

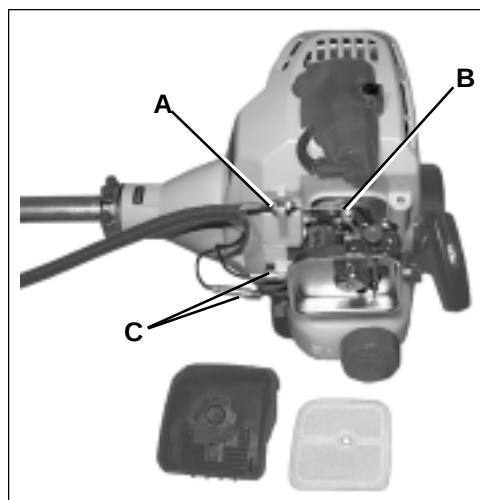
8. Install harness clamp.
 - a. Slightly spread clamp and slide up shaft.
 - b. Install single link using spacer, DO NOT tighten at this time.
9. Install gear housing and shield and front handle.
10. Balance unit.
 - a. Put on harness and attach unit to harness.
 - b. Slide clamp up or down until unit balances with head approximately 50-75mm (2-3 in.) from the ground.
 - c. Tighten clamp screw.



THROTTLE LINKAGE AND IGNITION LEADS

Tools Required: 8mm x 10mm open end wrench

1. Close choke and remove air filter cover.
2. Loosen nut (A) and place threaded end of throttle linkage in bracket slot. Finger tighten nut (A).
3. Place inner cable in slot of carburetor swivel (B) and tighten nut (A).
4. Check throttle for freedom of movement and that wide open throttle / low idle extremes are adjusted properly. If adjustment cannot be achieved with adjusting nuts, consult with your Echo Dealer for correct adjustment procedure.
5. Connect ignition leads (C).
6. Install air filter and cover.



FRONT HANDLE INSTALLATION

Tools Required: Screwdriver.

Parts Required: Front Handle Assembly

1. Position front handle on drive shaft, DO NOT tighten screws yet.



2. Position front handle for comfortable operation and secure screws.

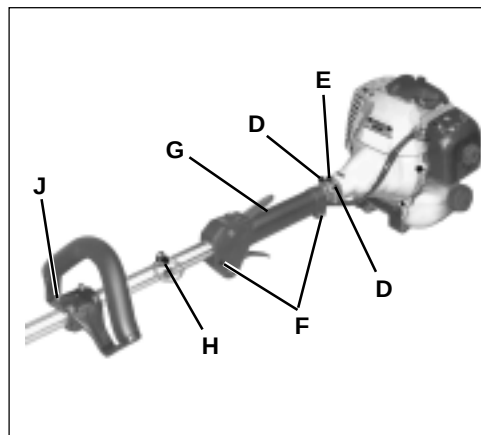
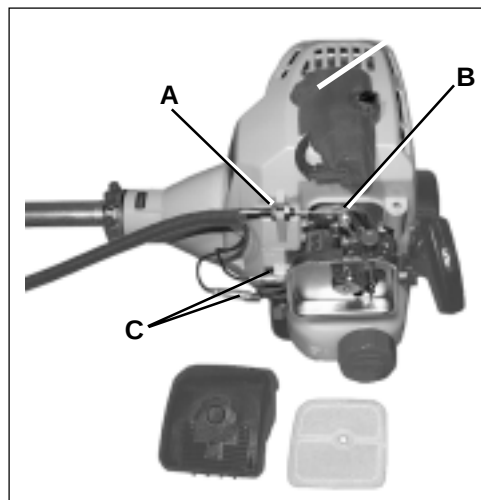


U-HANDLE INSTALLATION

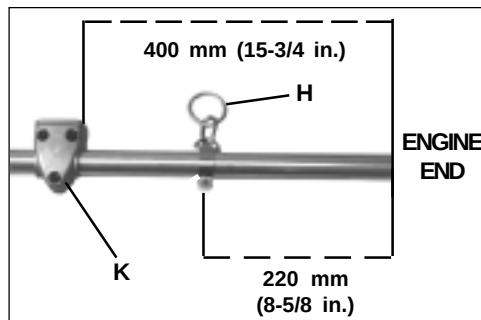
Tools Required: 8mm x 10mm Open End Wrench, Screwdriver.

Parts Required: U-Handle Kit P/N 35130455830.

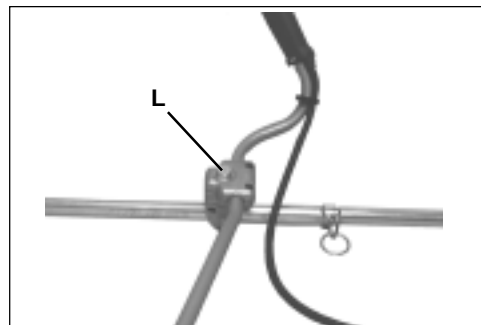
1. Close choke and remove air filter cover.
2. Disconnect two (2) ignition stop leads (C).
3. Remove inner throttle linkage from carburetor swivel (B).
4. Loosen nut (A) and remove throttle linkage from bracket.
5. Loosen screws (D) and remove center shaft location bolt (E).
6. Loosen two (2) rear handle screws (F) and pull rear handle (G) from the drive shaft assembly.
7. Loosen screw and pull harness clamp (H) from drive shaft assembly.
8. Loosen four (4) screws and remove front handle (J).



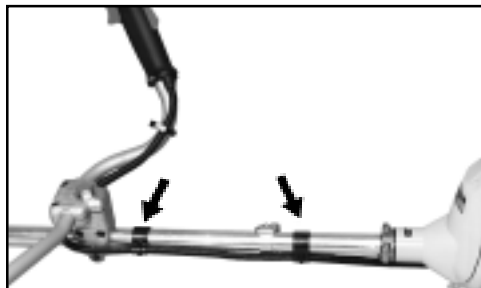
9. Position lower U-Handle Bracket (K) 400mm (15-3/4 in.) from engine end of drive shaft. Secure with three (3) 5mm x 30mm bolts.
10. Position harness hook 220mm (8-5/8 in.) from engine end of drive shaft assembly. DO NOT tighten at this time.



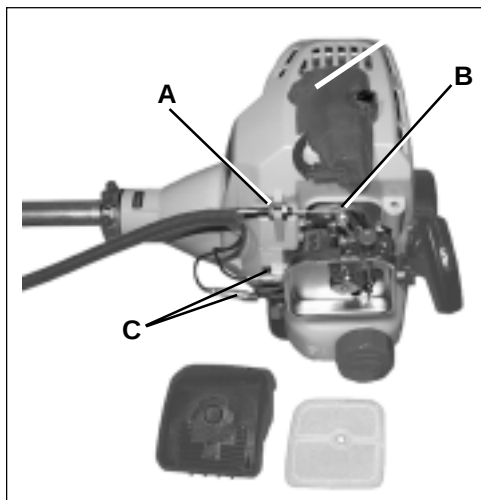
11. Install upper U-Handle and bracket on lower bracket and secure with one (1) 8mm x 55mm bolt (L) and large circular washer.



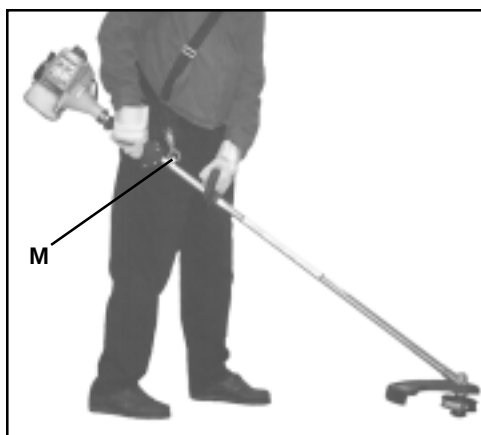
12. Secure throttle linkage and ignition leads to drive shaft with cable ties supplied.
13. Install power head and align gear box, power head and U-handles. Tighten all screws.



14. Place throttle linkage in slot in bracket. One nut and washer on each side of bracket. Finger tighten both nuts (A).
15. Attach inner cable to swivel (B). Check throttle for freedom of movement and that wide open throttle / low idle extremes are adjusted properly. If adjustment cannot be achieved with adjusting nuts, consult with your Echo Dealer for correct adjustment procedure.
16. Attach ignition leads (C).



17. Balance unit.
 - a. Put on harness and attach unit to harness.
 - b. Slide harness clamp (M) up or down until unit balances with head approximately 50-75mm (2-3 in.) from the ground.
 - c. Tighten harness clamp screw.



PRE - OPERATION

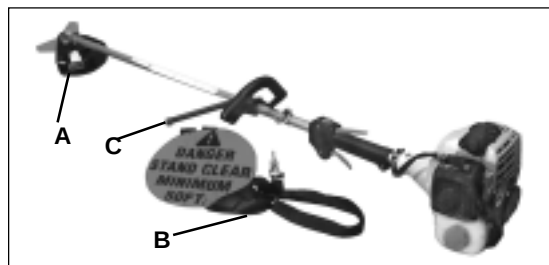
OPERATION WITH BLADES

Preparing the Trimmer/Brush Cutter for Blade Use

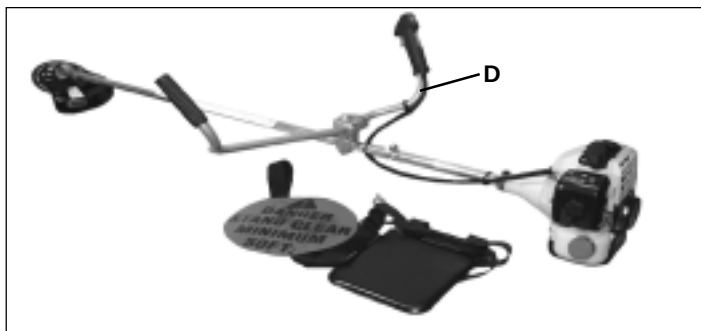
WARNING **DANGER**

Blade use **DEMANDS** specific Brush Cutter configuration. Operation without specified shield and harness can result in serious personal injury.

Plastic and Nylon Blades Require "Blade Conversion Kit" (metal shield [A], shoulder harness [B], and barrier bar [C]).



Steel/Metal Blades Require "Blade Conversion Kit" **PLUS** a "U-Handle Kit." (D) P/N 35130455830



Choosing the Correct Blade

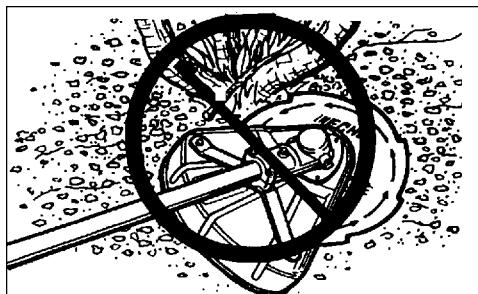
WARNING **DANGER**

The type of Blade used **MUST** be matched to the type and size of material cut. An improper or dull blade can cause serious personal injury. Blades **MUST** be sharp. Dull blades increase the chance of kick out and injury to yourself and bystanders.

Plastic/Nylon Blades may be used where ever the nylon line head is used. **DO NOT** use this blade for heavy weeds or brush!



8 Tooth Weed/Grass Blade is designed for grass, garden debris and thick weeds. DO NOT use this blade for brush or heavy woody growth, 19 mm (3/4 in.) diameter or larger.
P/N69600121431



Brush/Clearing Blade is designed for cutting brush and woody growth up to 76 mm (3 in.) diameter.
P/N69500121431



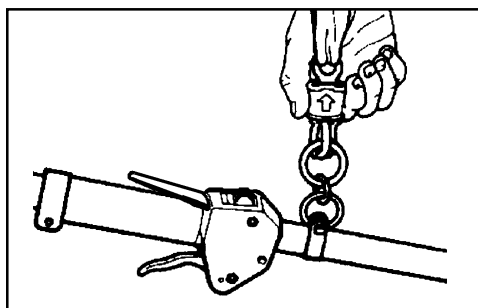
Use Shoulder/Waist Harness (P/N 30100052131) Use of the Shoulder/Waist Harness is recommended for **ALL** Trimmer/Brush Cutter use, not just Blade operation. The Shoulder/Waist Harness when used in a trimming operation with nylon line head suspends the trimmer from the operator's shoulder and reduces operator fatigue.



During blade operation, the same fatigue reduction is achieved. Safety to the operator is also enhanced by preventing blade contact with the operator's hands and feet by restricting trimmer movement.

NOTE

In case of Emergency, pull up on the Quick Release Collar to disconnect the trimmer from the harness.



FUEL

Fuel Requirements

Gasoline - Use 89 Octane [$\frac{R+M}{2}$] (mid grade or higher) gasoline or gasohol known to be good quality. Gasohol may contain up to 10% Ethyl (grain) alcohol or 15% MTBE (methyl tertiary-butyl ether). Gasohol containing methyl (wood) alcohol is **NOT** approved.

Two Stroke Oil - A two-stroke engine oil meeting ISO-L-EGD Standard (ISO/CD 13738), must be used. Echo brand Premium 50:1 oil meets this standard. Engine problems due to inadequate lubrication caused by failure to use an ISO-L-EGD approved oil, such as Echo 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.)

IMPORTANT

Echo Premium 2-Stroke Oil may be mixed at 50:1 ratio for application in all Echo engines sold in the past regardless of ratio specified in those manuals.

Mixing Instructions

1. Fill an approved fuel container with half of the required amount of gasoline.
2. Add 2-stroke oil to gasoline.
3. Close container and shake to mix oil with gasoline.
4. Add remaining gasoline and remix.
5. Install fuel container cap and wipe any spilled fuel from container and surrounding area.

Handling Fuel

WARNING DANGER

Fuel is **VERY** flammable. Use extreme care when mixing, storing or handling or serious personal injury may result.

- Use an approved fuel container.
- DO NOT smoke near fuel.
- DO NOT allow flames or sparks near fuel.
- Fuel tanks/cans may be under pressure. Always loosen fuel caps slowly allowing pressure to equalize.
- NEVER refuel a unit when the engine is HOT!
- NEVER refuel a unit with the engine running.
- DO NOT fill fuel tanks indoors. ALWAYS fill fuel tanks outdoors over bare ground.
- Securely tighten fuel cap after refueling.
- Inspect for fuel leakage. If fuel leakage is found, do not start or operate unit until leakage is repaired.

IMPORTANT

Spilled fuel is a leading cause of hydrocarbon emissions. Some states may require the use of automatic fuel shut-off containers to reduce fuel spillage. Contact your ECHO dealer for ordering information.

After Refueling;

- Wipe any spilled fuel from the unit.
- Move at least 3 m (10 ft.) from refueling location before starting the engine.

After use;

- DO NOT store a unit with fuel in its tank. Leaks can occur.
- Return unused fuel to an approved fuel storage container.

Storage

Fuel storage laws vary by locality. Contact your local government for the laws affecting your area. As a precaution, store fuel in an approved, air tight container. Store in a well ventilated, unoccupied building, away from sparks and flames. Do not store fuel longer than 30 days.

IMPORTANT

Stored fuel ages. Do not mix more fuel than you expect to use in thirty (30) days, ninety (90) days when a fuel stabilizer is added.

IMPORTANT

Stored two-stroke fuel may separate. ALWAYS shake fuel container thoroughly before each use.

OPERATION

STARTING COLD ENGINE

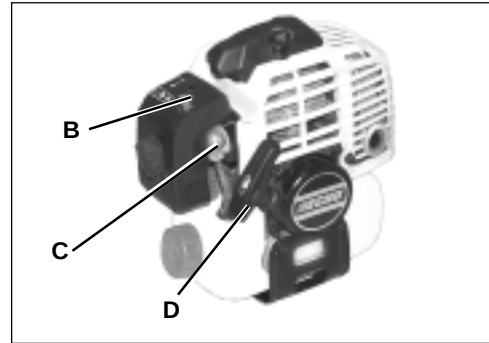
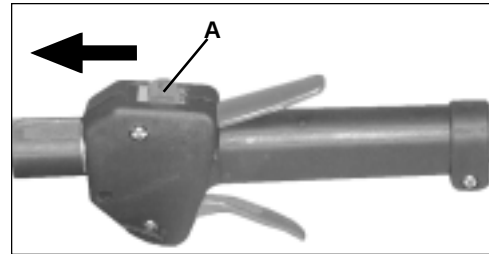
WARNING **DANGER**

The cutting attachment should not rotate at idle. If attachment rotates, readjust carburetor according to "Carburetor Adjustment" instructions in this manual or see your ECHO Dealer, otherwise serious personal injury may result.

NOTE

Refer to Grass Trimmer/Brush Cutter Safety Manual for proper and safe techniques.

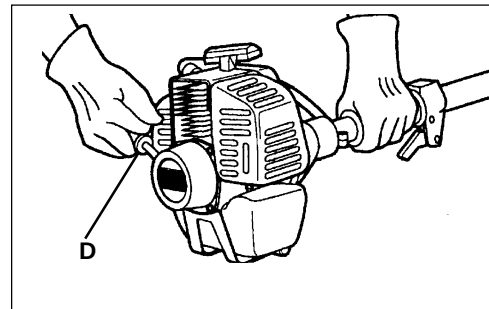
1. *Stop Switch*
Move stop switch button (A) forward away from the STOP position.
2. *Choke*
Move choke (B) to "Cold Start" Position.
3. *Primer*
Pump primer bulb (C) until fuel is visible and flows freely in the clear fuel tank return line. Pump bulb an additional 4 or 5 times.



WARNING **DANGER**

Inspect starting area for hazards such as rocks, glass, debris etc. which could be thrown by the cutting attachment when starting. Keep helpers and bystanders at least 15m (50 ft.) from starting area, otherwise serious personal injury may result.

4. *Recoil Starter*
Lay the trimmer on a flat clear area. Firmly grasp throttle grip with left hand and rapidly pull recoil starter handle/rope (D) until engine fires.
5. *Choke*
After engine fires, move choke lever to "Run" position and pull recoil starter handle/rope (D) until engine starts and runs. Allow unit to warm up at idle for several minutes.



NOTE

If engine does not start with choke in "Run" position after 5 pulls, repeat instructions 4 and 5.

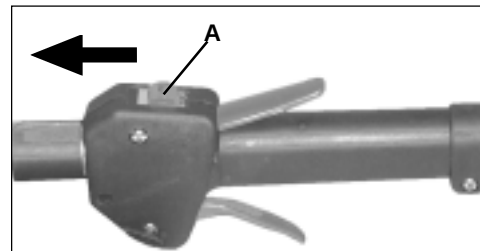
6. After engine warm up, gradually depress throttle trigger to increase engine RPM to operating speed.

STARTING WARM ENGINE

WARNING DANGER

The cutting attachment should not rotate at idle. If attachment rotates, readjust carburetor according to "Carburetor Adjustment" instructions in this manual or see your ECHO Dealer, otherwise serious personal injury may result.

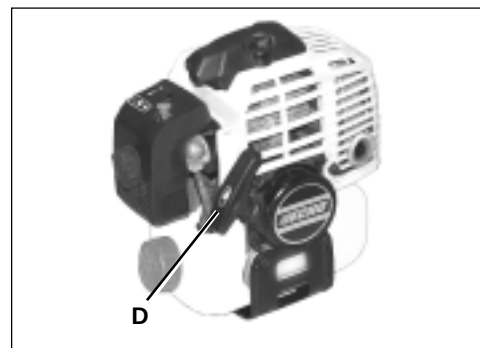
1. *Stop Switch*
Move stop switch button (A) away from the STOP position.



2. *Start*
Lay the trimmer on a flat clear area and pull the recoil starter handle (D) until the engine fires.

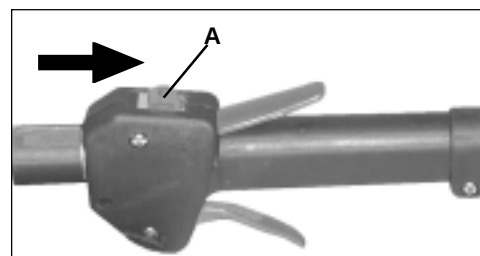
NOTE

If engine does not start after 5 pulls, use Cold Start Procedure.



STOPPING ENGINE

1. *Throttle*
Release throttle and allow engine to return to idle before shutting off engine.
2. *Stop Switch*
Move stop switch button (A) backward to STOP position.



WARNING DANGER

If engine does not stop when stop switch is moved to STOP position, close choke - COLD START position - to stall engine. Have your ECHO dealer repair stop switch before using trimmer again.

MAINTENANCE

Your ECHO unit is designed to provide many hours of trouble-free service. Regular scheduled maintenance will help your unit achieve that goal. If you are unsure or are not equipped with the necessary tools, you may want to take your unit to an ECHO Service Dealer for maintenance. To help you decide whether you want to DO-IT-YOURSELF or have the ECHO Dealer do it, each maintenance task has been graded. If a task is not listed, see your ECHO Dealer for repairs.

SKILL LEVELS

- Level 1** = Easy to do. Most required tools come with unit.
- Level 2** = Moderate difficulty. Some specialized tools may be required.
- Level 3** = Experience required. Specialized tools are required. ECHO recommends that the unit be returned to your ECHO dealer for service.

ECHO offers **REPOWER™** Maintenance Kits and Parts to make your maintenance job easier. Below each task heading are listed the various part numbers required for that task. See your ECHO dealer for these parts.

MAINTENANCE INTERVALS

COMPONENT/ SYSTEM	MAINTENANCE PROCEDURE	REQ'D SKILL LEVEL	DAILY OR BEFORE USE	EVERY REFUEL	3 MONTHS OR 90 HOURS	6 MONTHS OR 270 HOURS	YEARLY 600 HOURS
Recommended Echo Dealer Maintenance Procedures							
Cylinder Exhaust Port	Inspect/Clean/Decarbon	3			I / C		
Do-It-Yourself Maintenance Procedures							
Air Filter	Inspect/Clean/Replace	1	I / C		R *		
Choke	Inspect/Clean	2	I / C				
Fuel Filter	Inspect/Replace	1			I		I / R *
Fuel System, leaks	Inspect/Replace	1	I *	I	I		
Cooling System	Inspect/Clean	2	I / C				
Muffler Spark Arrestor	Inspect/Replace	2			I / R *		
Drive Shaft (Flex Cable Models)	Grease	2			I (1)		
Gear Housing	Grease	2			I (2)		
Recoil Starter Rope	Inspect/Clean	1	I / C *				
Spark Plug	Inspect/Clean	2			I / C	R *	
Screws/Nuts/Bolts	Inspect/Tighten/Replace	1	I / R *				

MAINTENANCE PROCEDURE LETTER CODES: I = INSPECT, R = REPLACE, C = CLEAN

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

MAINTENANCE PROCEDURE NOTES:

(1) Apply ECHO® LUBE™ every 25 hours of use.

(2) Apply ECHO® LUBE™ every 50 hours of use.

* All recommendations to replace are based on the finding of damage or wear during inspection..

AIR FILTER

Level 1.

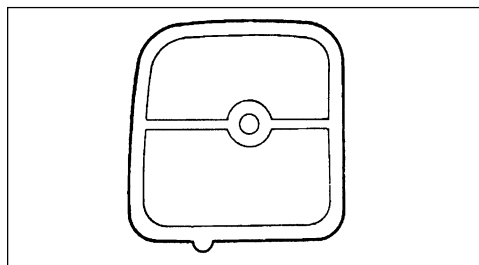
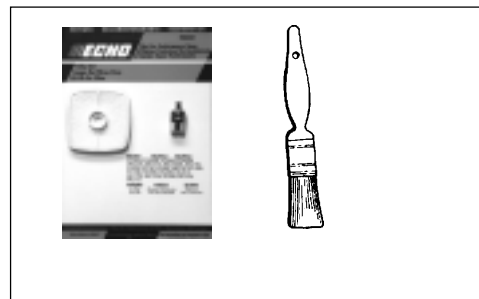
Tools required: 25-50mm (1or 2 in.) medium bristle paint brush.

Parts required: 90030 REPOWER™ AIR & FUEL FILTER KIT.

1. Close choke (Cold Start Position). This prevents dirt from entering the carburetor throat when the air filter is removed. Brush accumulated dirt from the air cleaner area.
2. Remove the air cleaner cover. Clean and inspect the element for damage. If element is fuel soaked and very dirty, replace.
3. If element can be cleaned and reused, be certain it:
 - still fits the cavity in the air cleaner cover.
 - is installed with the original side out.

NOTE

Carburetor adjustment may be needed after air filter cleaning/replacement.



FUEL FILTER

Level 1.

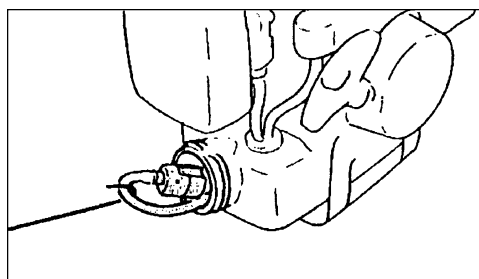
Tools required: Fuel line hook. 200-250mm (8-10 in.) length of wire with one end bent into a hook. Clean rag, funnel, and an approved fuel container.

Parts required: 90030 REPOWER™ AIR & FUEL FILTER KIT.

WARNING DANGER

Fuel is **VERY** flammable. Use extreme care when mixing, storing or handling.

1. Use a clean rag to remove loose dirt from around fuel cap and empty fuel tank.
2. Use the "fuel line hook" to pull the fuel line and filter from the tank.
3. Remove the filter from the line and install the new filter.



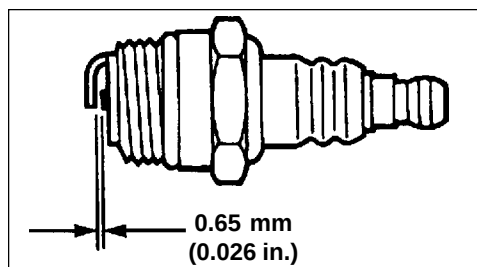
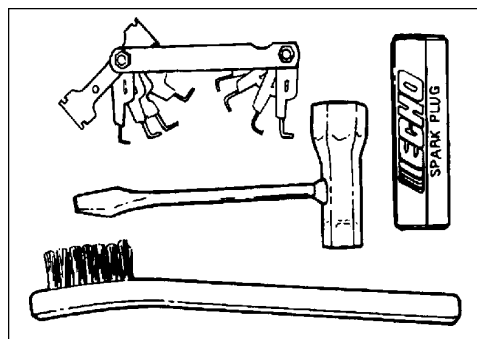
SPARK PLUG

Level 2.

Tools Required: Srench (combination socket wrench & screw driver)
Feeler gauge, preferably a wire gauge. Brush.

Parts Required: Spark Plug, NGK BPM-7A P/N 15901010630

1. Remove spark plug and check for fouling, worn and rounded center electrode.
2. Clean the plug or replace with a new one. DO NOT sand blast to clean. Remaining sand will damage engine.
3. Adjust spark plug gap by bending outer electrode.
4. Tighten spark plug to 145-155 kg/cm (125-135 in. lb.).



COOLING SYSTEMS CLEANING

Level 2.

Tools required: Cross Head Screwdriver, 3 MM Hex Wrench, Pointed Wood Stick, 25-50mm (1-2 in.) medium bristle paint brush.

Parts Required: None if you are careful.

IMPORTANT

To maintain proper engine operating temperatures, cooling air must pass freely through the cylinder fin area. This flow of air carries combustion heat away from the engine.

Overheating and engine seizure can occur when:

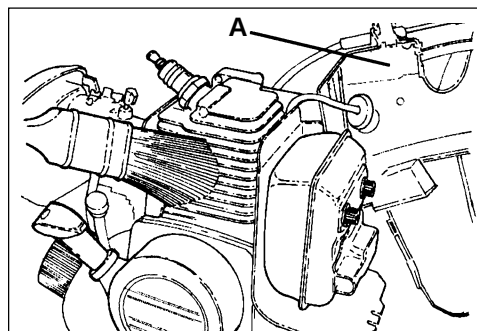
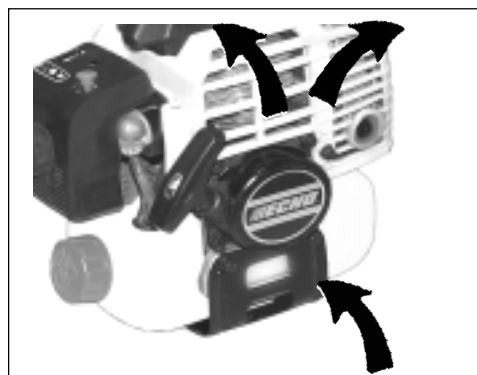
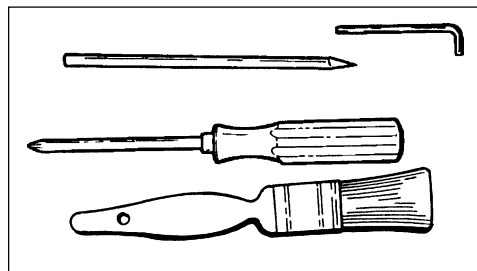
- Air intakes are blocked, preventing cooling air from reaching the cylinder.
- Dust and grass build up on the outside of the cylinder. This build up insulates the engine and prevents the heat from leaving.

Removal of cooling passage blockages or cleaning of cooling fins is considered "Normal Maintenance". Any failure attributed to lack of maintenance is not warranted.

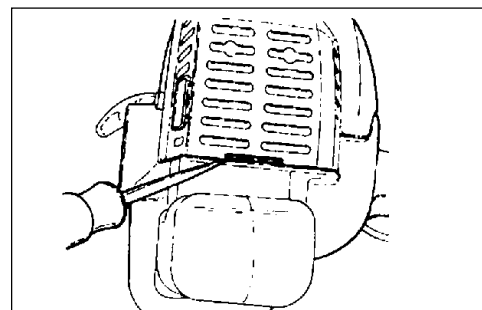
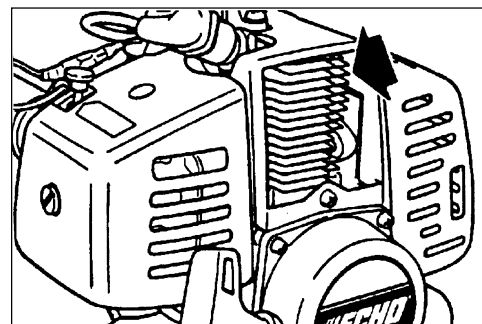
1. Remove spark plug lead and throttle cable end from the carburetor swivel.
2. Remove the four screws that retain the engine cover (A). Two at the top of the recoil starter, two on either side of the front. Lift the cover from the engine and lay to the front of the trimmer.

NOTE

The throttle linkage remains assembled to the cover and the spark plug lead and grommet remain installed.



3. Use the wooden stick or brush to remove dirt from the cylinder fins.
4. Remove grass and leaves from the grid between the recoil starter and fuel tank.



EXHAUST SYSTEM

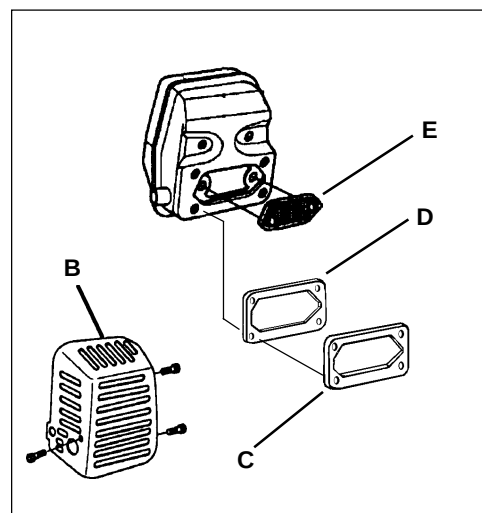
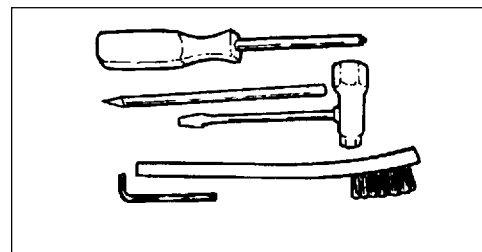
Spark Arrestor Screen

Level 2.

Tools Required: Cross Head Screwdriver. Srench. Soft metal brush. Wooden carbon scraper. 3mm and 4mm Hex Wrench.

Parts Required: Screen P/N 14590555730
Lid Gasket P/N 14586655730

1. Remove three (3) screws retaining muffler cover (B).
2. Place piston at Top Dead Center (TDC) to prevent carbon/dirt from entering cylinder.
3. Remove screen holder (C), gasket (D) and screen (E) from muffler body.
4. Clean carbon deposits from screen and muffler components.
5. Replace screen if it is cracked, plugged or has holes burned through.



CARBURETOR ADJUSTMENT

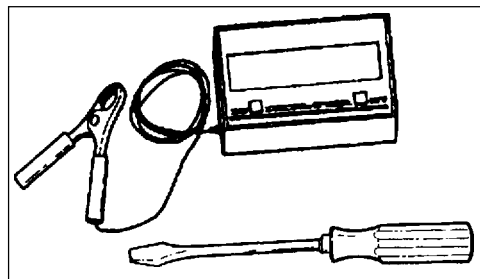
Level 2.

Tools required: Screwdriver, Tachometer (ECHO P/N 99051130017).

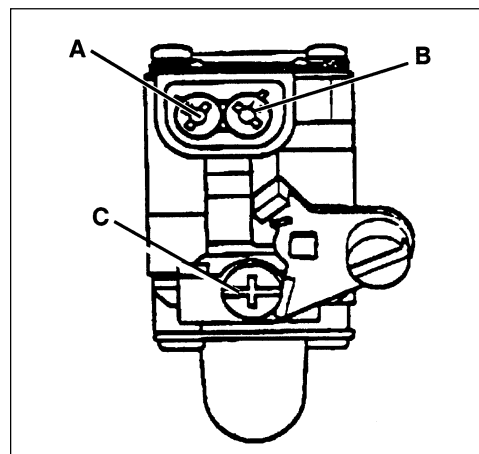
Parts required: None.

NOTE

Every unit is run at the factory and the carburetor is set in compliance with emission regulations. In addition, the carburetor is equipped with HI and LO needle adjustment limiters that prevent settings outside acceptable limits.



1. Before adjusting the carburetor, clean or replace the air filter and spark arrester screen.
2. Trimmer line must be extended to the cut-off knife.
3. Start engine and run for several minutes to reach operating temperature.
4. Stop engine. Turn HI speed needle (A) CCW (counter clockwise) to stop. Turn LO speed needle (B) midway between full CCW and CW (clockwise) stops.
5. Idle Speed Adjustment.
 - Start engine and turn idle speed adjustment screw (C) CW until the cutting attachment begins to turn, then turn the screw CCW until attachment stops turning. Turn screw (C) CCW an additional 1/4 turn.
6. Accelerate to full throttle for 2-3 seconds to clear excess fuel from engine then return to idle. Accelerate to full throttle to check for smooth transition from idle to full throttle. If engine hesitates, turn LO needle (B) CCW an additional 1/8 turn and repeat acceleration. Continue adjusting until smooth acceleration results.
7. Check HI speed RPM at W.O.T. (Wide Open Throttle). HI speed RPM should be set to the specifications found on Page 12 "Specifications" of this manual for the type of cutting attachment on this unit.
8. Check idle speed and reset if necessary. If a tachometer is available, idle speed should be set to the specifications found on page 12 "Specifications" of this manual.



WARNING DANGER

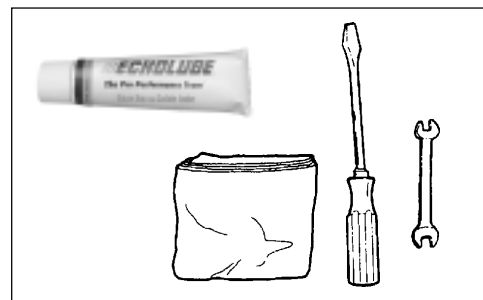
When carburetor adjustment is completed, the cutting attachment should not turn at idle, otherwise serious personal injury may result.

LUBRICATION

Level 1.

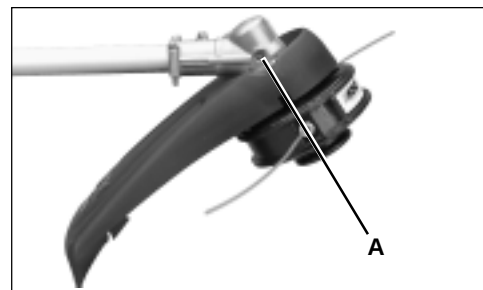
Tools Required: 8 mm Open End Wrench, Screwdriver, Clean Rag.

Parts Required: ECHO® LUBE™ 8 oz. (P/N91014) or Lithium Base Grease.



Gear Housing

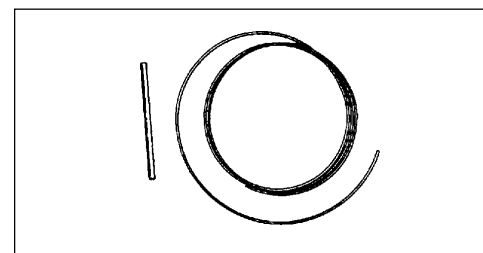
1. Clean all loose debris from gear box.
2. Remove plug (A) and check level of grease.
3. Add grease if necessary, DO NOT over fill.



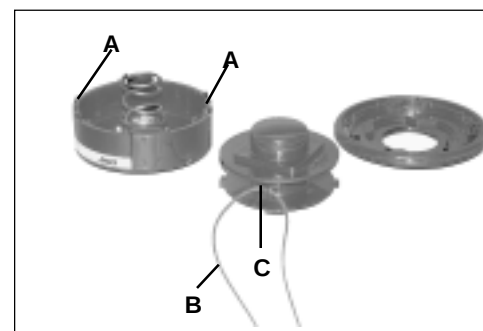
NYLON LINE REPLACEMENT

Tools Required: Head locking tool (if head is to be removed)

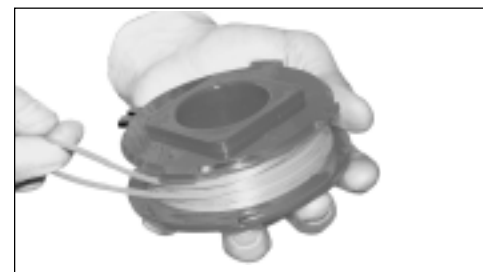
Parts Required: ECHO 0.105 in. Nylon Trimmer Line 15m (50 feet) long.



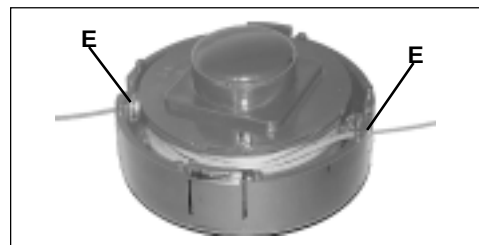
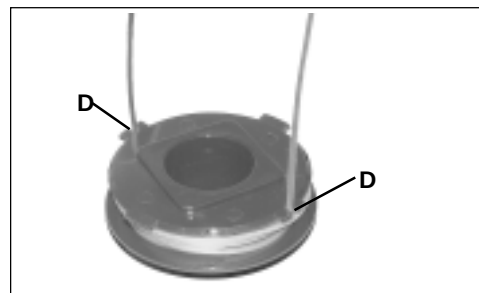
1. Shut engine off. Lay unit on the ground with head assembly up.
2. Hold head firmly and push in cover tabs (A) to remove spool.
3. Use one piece of nylon line (B) and thread through the molded loop (C) on the spool spindle until ends are even.



4. Hold spool with the tap knob in your hand and opening toward you. Place index finger between the two lines and wind line clockwise tightly and evenly.



5. When approximately 15-20 cm (6-8in.) of line remains, place lines in spool notches (D).
6. Place spool in housing against spring; thread line ends through housing eyelets (E).
7. Align cover tabs with tab holes in housing and push until tabs snap lock into place.
8. Pull on both lines until they come free from notches in spool.
9. Index line out by pushing tap knob and trim to cut-off knife length.



SHARPENING METAL BLADES

Three styles of metal blades are approved for use on the ECHO Brushcutter. The 8-tooth blade can be sharpened during normal maintenance. The clearing blade and 80 tooth blade require professional service.

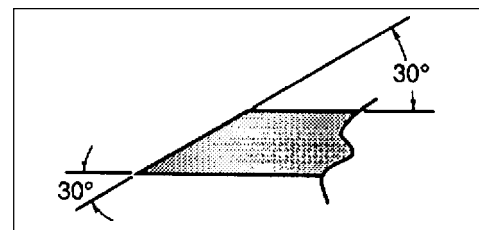
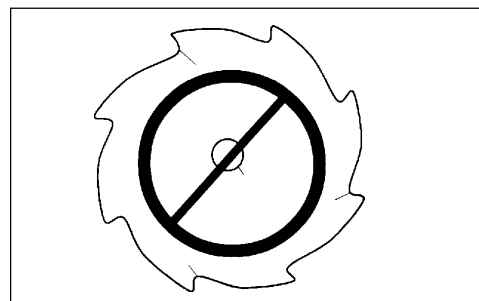
Before sharpening, CLOSELY inspect blade for cracks (look at the bottom of each tooth and the center mounting hole closely), missing teeth and bending. If ANY of these problems are discovered, replace the blade.

When sharpening a blade, always remove the same amount of materials from each tooth to maintain balance. A blade that is not balanced will cause unsafe handling due to vibration and can result in blade failure.

8-tooth Blade

Tool required: Flat file (preferred). Electric grinder if special care is used. Round (rat tail) file for gullet (radius).

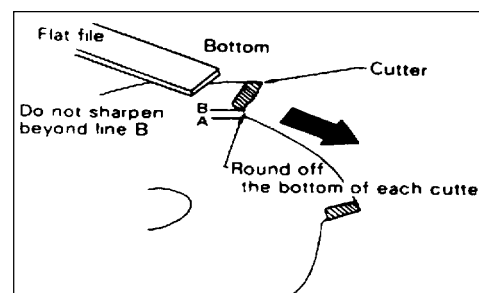
1. File each tooth at a 30 degree angle a specific number of times, eg. 4 strokes per tooth. Work your way around the blade until all teeth are sharp.
2. DO NOT file the 'gullet' (radius) of the tooth with the flat file. The radius must remain. A sharp corner will lead to a crack and blade failure.



IMPORTANT

If an electric grinder is used, use care not to overheat teeth, do not allow tips/tooth to glow red or turn blue. DO NOT place blade in cooling water. This will change the temper of the blade and could result in blade failure.

3. After sharpening teeth, check each tooth radius for evidence of a square (sharp) corner. Use the round (rat tail) file to renew the radius.



TROUBLESHOOTING

ENGINE PROBLEM TROUBLESHOOTING CHART				
Problem	Check	Status	Cause	Remedy
Engine cranks - starts hard/ doesn't start	Fuel at carburetor	No fuel at carburetor	Fuel strainer clogged Fuel line clogged Carburetor	Clean or replace Clean or replace See your Echo dealer
	Fuel at cylinder	No fuel at cylinder	Carburetor	See your Echo dealer
		Muffler wet with fuel	Fuel Mixture too rich	Open choke Clean/replace air filter Adjust carburetor See your Echo dealer
	Spark at end of plug wire	No spark	Stop switch off Electrical problem Interlock switch	Turn switch to ON See your Echo dealer See your Echo dealer
	Spark at plug	No spark	Spark gap incorrect Covered with carbon Fouled with fuel Plug defective	Adjust to .65mm (0.026 in.) Clean or replace Clean or replace Replace plug
Engine runs, but dies or does not accelerate properly	Air filter	Air filter dirty	Normal wear	Clean or replace
	Fuel filter	Fuel filter dirty	Contaminants/residues in fuel	Replace
	Fuel vent	Fuel vent plugged	Contaminants/residues in fuel	Clean or replace
	Spark Plug	Plug dirty/worn	Normal wear	Clean and adjust or replace
	Carburetor	Improper adjustment	Vibration	Adjust
	Cooling System	Cooling system dirty/plugged	Extended operation in dirty/dusty locations	Clean
	Spark Arrestor Screen	Spark arrestor screen plugged	Normal wear	Replace
Engine does not crank	N/A	N/A	Internal engine problem	See your Echo dealer

WARNING DANGER

Fuel vapors are **extremely** flammable and may cause fire and/or explosion. **Never** test for ignition spark near an open spark plug opening, otherwise serious personal injury may result.

STORAGE

WARNING DANGER

During operation the muffler or catalytic muffler and surrounding cover become hot. Always keep exhaust area clear of flammable debris during transportation or when storing, otherwise serious property damage or personal injury may result.

Long Term Storage (over 30 days)

Do not store your unit for a prolonged period of time (30 days or longer) without performing protective storage maintenance which includes the following:

1. Store unit in a dry, dust free place, out of the reach of children.

WARNING DANGER

Do not store in enclosure where fuel fumes may accumulate or reach an open flame or spark.

2. Place the stop switch in the "STOP" position.
3. Remove accumulation of grease, oil, dirt and debris from exterior of unit.
4. Perform all periodic lubrication and services that are required.
5. Tighten all the screws and nuts.
6. **Drain** the fuel tank **completely** and pull the recoil starter handle several times to remove fuel from the carburetor.
7. Remove the spark plug and pour 7 cc (1/4 oz.) (1/2 tablespoon) of fresh, clean, two-stroke engine oil into the cylinder through the spark plug hole.
 - A. Place a clean cloth over the spark plug hole.
 - B. Pull the recoil starter handle 2-3 times to distribute the oil inside the engine.
 - C. Observe the piston location through the spark plug hole. Pull the recoil handle slowly until the piston reaches the top of its travel and leave it there.
8. Install the spark plug (do not connect ignition cable).

NOTES

SERVICING INFORMATION

PARTS

Genuine ECHO Parts and ECHOREPOWER™ Parts and Assemblies for your ECHO products are available only from an Authorized ECHO Dealer. When you do need to buy parts **always** have the Model Number and Serial Number of the unit with you. You can find these numbers on the engine housing. For future reference, write them in the space provided below.

Model No. _____ SN. _____

SERVICE

Service of this product during the warranty period must be performed by an Authorized ECHO Service Dealer. For the name and address of the Authorized ECHO Service Dealer nearest you, ask your retailer or call: 1-800-432-ECHO (3246). Dealer information is also available on our Web Site. When presenting your unit for Warranty service/repairs, proof of purchase is required.

ECHO CONSUMER PRODUCT SUPPORT

If you require assistance or have questions concerning the application, operation or maintenance of this product you may call the ECHO Consumer Product Support Department at 1-800-673-1558 from 8:30 am to 4:30 pm (Central Standard Time) Monday through Friday. Before calling, please know the model and serial number of your unit to help your Consumer Product Support Representative.

WARRANTY REGISTRATION

You may register your Echo equipment using the warranty registration card or register on-line at www.echo-usa.com. Registering provides a direct link between you and ECHO if we find it necessary to contact you.

ADDITIONAL OR REPLACEMENT MANUALS

Safety Manuals in English/Spanish or English/French are available free of charge from your ECHO dealer, or online at www.echo-usa.com.

Operator's and Parts Manuals are available by:

- Downloading free from www.echo-usa.com
- Purchasing from your Echo Dealer.
- Sending a check or money order for \$2.00 per Parts Catalog or \$1.50 per Operator's Manual made payable to ECHO, INCORPORATED. State on a sheet of paper the model number and serial number of the ECHO unit you have, part number of the manual (if known), your name and address and mail to address below.

Safety Videos are available from your Echo dealer. A \$5.00 shipping charge is required for each video.

Available Parts Catalog Parts Lists

SRM-3400

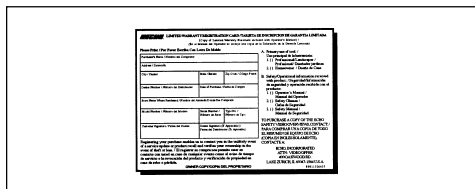
S/N 001001 & UP

PARTNUMBER 99922202732



**DEALER?
CALL
1-800-432-ECHO
OR
www.echo-usa.com**

**CONSUMER PRODUCT
SUPPORT
1-800-673-1558
8:30 - 4:30 MON - FRI C.S.T.**



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