Grass Trimmer/Brush Cutter

Operator's Manual

MODEL SRM - 260U

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.

X7532094601

X753001591
11/05

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.

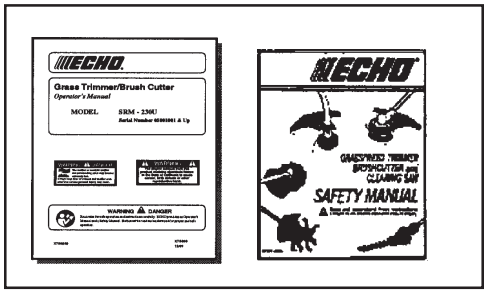


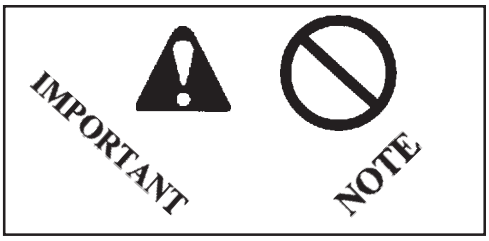
TABLE OF CONTENTS

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.

SAFETY

MANUAL SAFETY SYMBOLS AND IMPORTANT INFORMATION

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



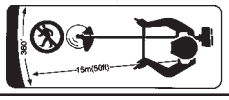
This symbol accompanied by the words **WARNING** and **DANGER** calls attention to an act or condition that can lead to serious personal injury to operator and bystanders.

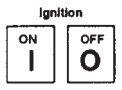
The circle with the slash symbol means whatever is shown within the circle is prohibited.

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.

INTERNATIONAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	"WARNING, SEE OPERATOR'S MANUAL		Hot Surface
	Wear eye, ear 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	DESCRIPTION	SYMBOL	DESCRIPTION
	Emergency Stop		Fuel and oil mixture
H	Carburetor Adjustment - High speed mixture		Primer Bulb
T	Carburetor Adjustment - Idle speed		Ignition ON/ OFF
L	Carburetor Adjustment - Low speed mixture		Do not use blades. String line only
	Choke Control "Run" Position (Choke Open)		Choke Control "Cold Start" Position (Choke Closed)

PERSONAL CONDITION AND SAFETY EQUIPMENT

WARNING  **DANGER**

Users of this product risk injury to themselves and others if the unit is used improperly and/or safety precautions are not followed. Proper clothing and safety gear must be worn when operating unit.

Physical Condition

Your judgment and physical dexterity may not be good:
- if you are tired or sick,
- if you are taking medication,
- if you have taken alcohol or drugs.

Operate unit only if you are physically and mentally well.

Eye Protection

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

Hand Protection

Wear no-slip, heavy-duty work gloves to improve your grip on the handle. 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, SCARFS, JEWELRY.

Wear protective hair covering to contain long hair.
Wear sturdy work shoes with nonskid soles;
- DO NOT WEAR OPEN TOED SHOES,
- DO NOT OPERATE UNIT BAREFOOTED.

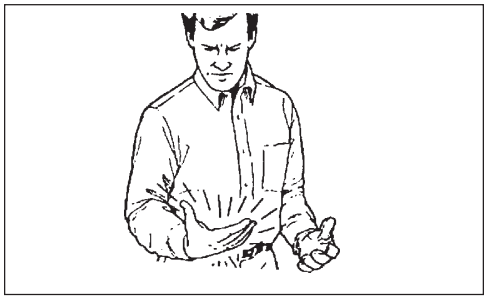
Hot Humid Weather

Heavy protective clothing can increase operator fatigue which may lead to heat stroke. Schedule heavy work for early morning or late afternoon hours when temperatures are cooler.

Extended Operation/Extreme Conditions

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 unit 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.

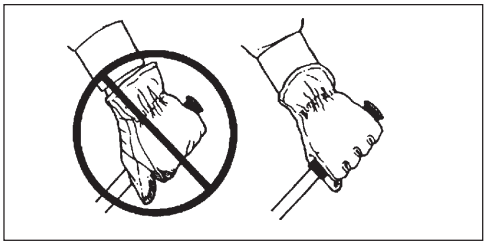


Repetitive Stress Injuries

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 exercise 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.



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.

Read the Manuals

- Provide all users of this equipment with the Operator's Manual and Safety Manual for instructions on Safe Operation.

Clear the Work Area

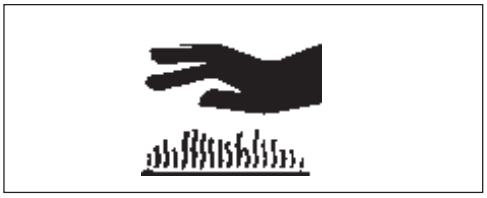
- Spectators and fellow workers must be warned, and children and animals prevented from coming nearer than 15 m (50 ft.) while the unit is in use.

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.



Avoid Hot Surfaces

- Keep exhaust area clear of flammable debris. Avoid contact during and immediately after operation.

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.

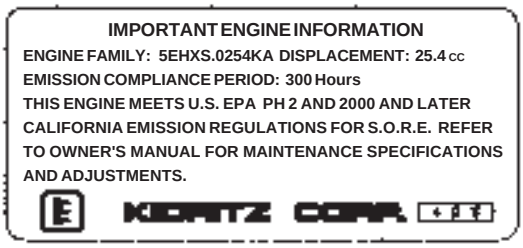
- Check unit for loose/missing nuts, bolts, and screws. Tighten and/or replace as needed.
- Inspect fuel lines, tank, and area around carburetor for fuel leaks. DO NOT operate unit if leaks are found.
- Inspect shield for damage and ensure that the cut-off knife is securely in place. Replace if either 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.

EMISSION CONTROL

EPA Phase 2

The emission control system for these engines is EM/TWC (Engine Modification With Catalyst).

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

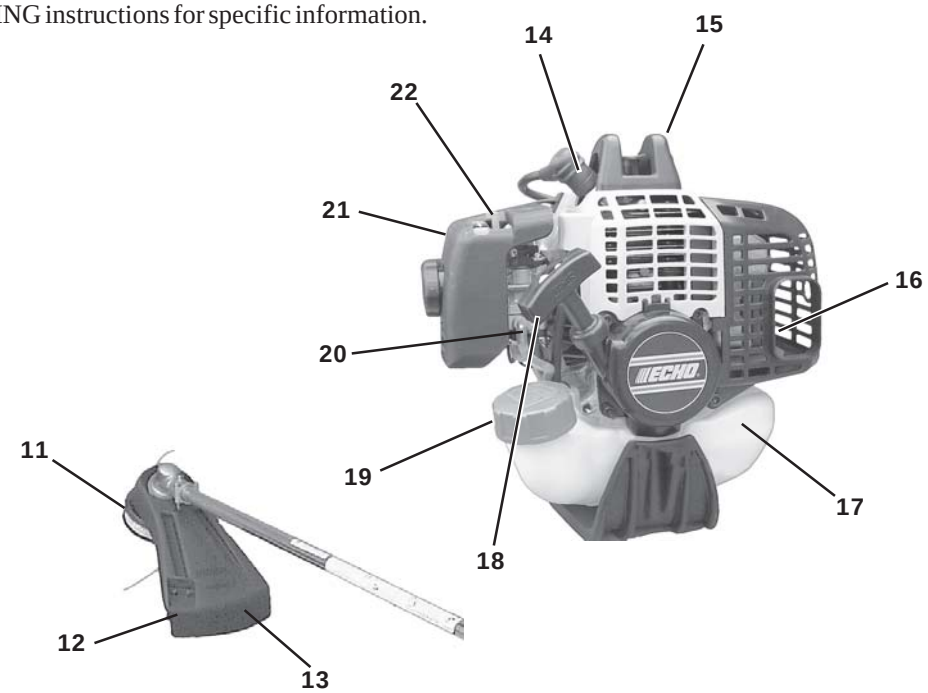


PRODUCT EMISSION DURABILITY

The 300 hour emission durability compliance period is the time span selected by the manufacturer certifying the engine emissions output meets applicable emissions regulations, provided that approved maintenance procedures are followed as listed in the Maintenance Section of this manual.

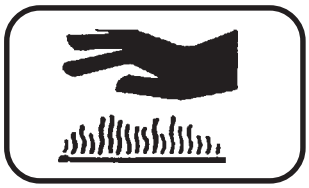
DESCRIPTION

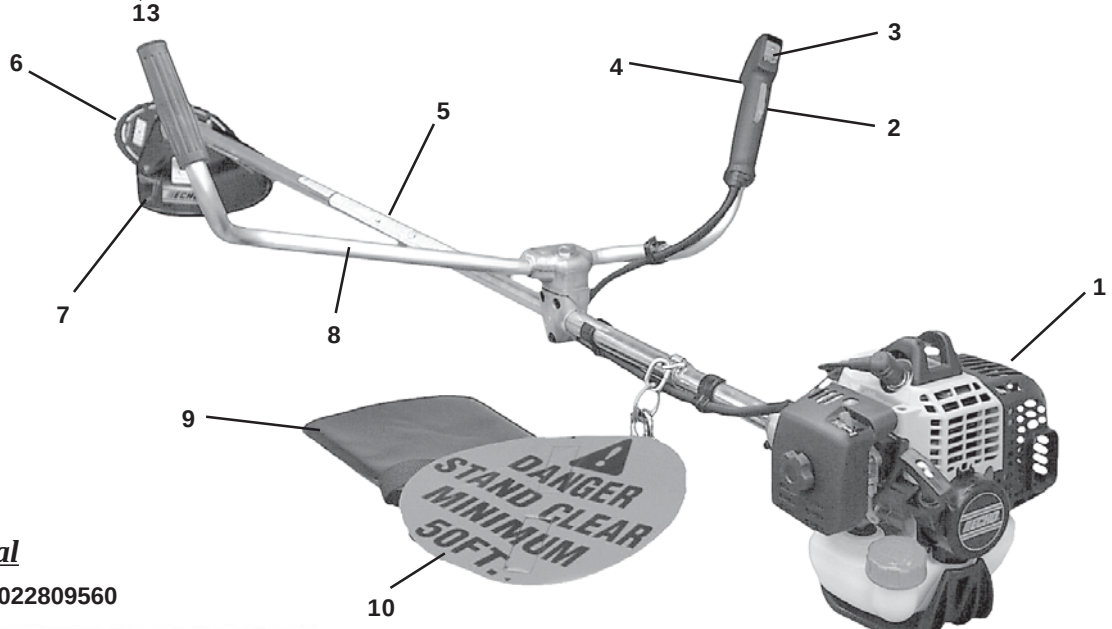
Locate these safety decals on your unit. Make sure the decals are legible and that you understand and follow the instructions on them. If a decal cannot be read, a new one can be ordered from your ECHO dealer. See PARTS ORDERING instructions for specific information.



Hot Decal (near muffler)

P/N 89016006361

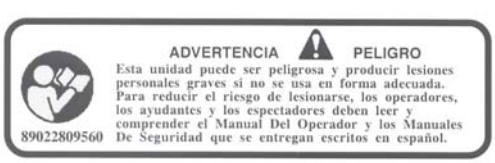




Shaft Decal

Spanish Decal

P/N 89022809560



P/N 89016054130

English Translation

Metal Debris Shield Decal

P/N 89016841031

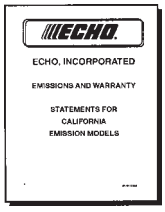
1. **POWER HEAD** - Includes the Engine, Clutch, Fuel System, Ignition System and Recoil Starter.
2. **THROTTLE TRIGGER LOCKOUT** - This lever must be held during starting. Operation of the throttle trigger is prevented unless throttle trigger lockout lever is engaged.
3. **STOP SWITCH** - "SLIDE SWITCH" mounted on top of the Throttle Trigger Housing. Move switch FORWARD to RUN, BACK to STOP.
4. **THROTTLE TRIGGER** - Controls engine speed. Spring loaded to return to idle when released. During acceleration, press trigger gradually for best operating technique.
5. **DRIVE SHAFT ASSEMBLY** - Includes the Rear (right hand) Handle assembly, Gear Housing assembly, Front (loop, left hand) Handle assembly, metal drive shaft and Safety Decal.
6. **BLADE** - Circular blade for grass, weed or brush cutting applications. Harness, metal shield & U-handles required for blade operation.
7. **METAL BLADE SHIELD** - Required when unit is equipped with blades. Do not operate unit without shield.
8. **U-HANDLE** - Required for metal blade operation.
9. **HIP PAD** - Used to protect hip/leg and clothing when using U-handle equipped unit.
10. **SHOULDER HARNESS**- An adjustable strap that suspends the unit from the operator. Using the strap reduces operator fatigue.
11. **NYLON CUTTER HEAD** - 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.
12. **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.
13. **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. 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 metal shield for blade use.
14. **SPARK PLUG** - Provides spark to ignite fuel mixture.
15. **ARM REST** - Provides arm rest during operation and protects arm from the hot engine.
16. **SPARK ARRESTOR - CATALYTIC MUFFLER / MUFFLER** - The muffler or catalytic muffler controls exhaust noise and emission. The spark arrestor screen prevents hot, glowing particles of carbon from leaving the muffler. Keep exhaust area clear of flammable debris.
17. **FUEL TANK** - Contains fuel and fuel filter.
18. **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.
19. **FUEL TANK CAP** - Covers and seals fuel tank opening.
20. **PURGE BULB** - Pumping purge bulb before starting engine draws fresh fuel from the fuel tank, purging air from the carburetor. Pump purge bulb until fuel is visible and flows freely in the clear fuel tank return line. Pump purge bulb an additional 4 or 5 times.
21. **AIR CLEANER** - Contains replaceable filter element.
22. **CHOKE** - The choke control is located at the rear of the air cleaner housing. Move choke lever to Cold Start () to close choke for cold start. Move choke lever to "Run" () position to open choke.

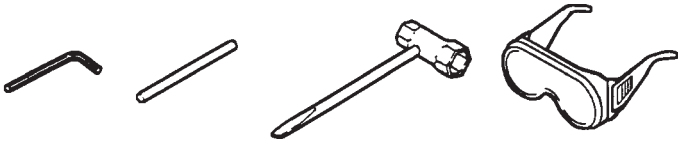
CONTENTS

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.

__ 1- Power Head / 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, wrench 17x19
__ --1, locking tool
__ - 1, Nylon Trimmer Head
__ - 1, Safety Glasses
__ - 1, Echo Power Blend ™ 2-stroke oil sample
__ - 1, Plastic Bag
__ --1, shield plate
__ --3, 5mm x 16mm screws (shield mtg.)
__ --1, 4mm Hexagon Wrench
__ --1, 8mm x 55mm bolt
__ --1, flat washer
__ --2, cable clips
__ - 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, metal shield
__ --1, bracket
__ - 1, Shoulder Harness w/hip pad
__ - 10, Cotter Pins





ASSEMBLY

PLASTIC SHIELD INSTALLATION

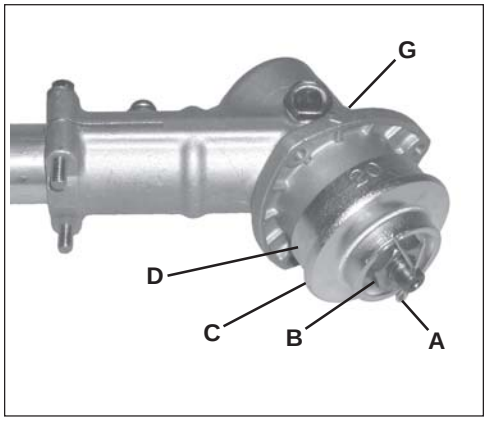
(Nylon line operation)

Tools Required: Screwdriver, Locking Tool

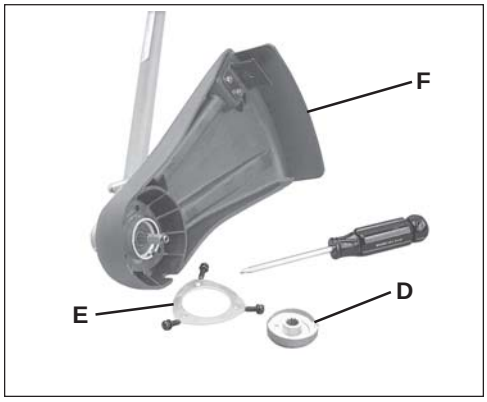
Parts Required: Plastic Debris Shield, Shield Plate, three (3) 5 x 16 mm screws.

WARNING ⚠ DANGER

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



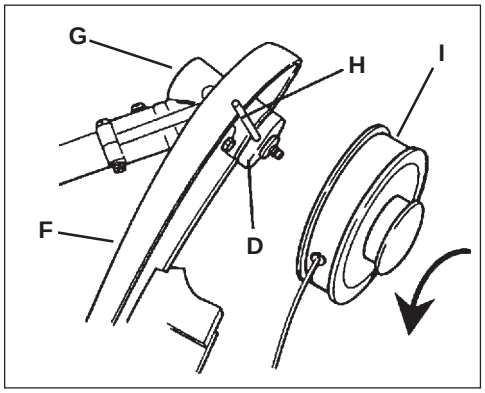
1. Align hole in upper plate (D) with notch in gear housing (G), and insert locking tool to prevent splined shaft from turning. Arrow on gear housing flange points to notch location.
2. Remove cotter pin (A), L.H. blade nut (B), lower plate (C), and upper plate (D) from PTO shaft. Turn blade nut clockwise to remove.
3. Remove locking tool. Retain lower plate, blade nut, and cotter pin for future use with blade conversions.
4. Align plastic debris shield (F) with the drive shaft, and install on the bottom of the gear housing flange.
5. Place shield plate (E) on shield, align holes and install three (3) screws.
6. Replace upper plate (D) on PTO shaft.



NYLON LINE HEAD INSTALLATION

Tools Required: Locking Tool, 17x19 mm Wrench

Parts Required: Nylon Line Head.



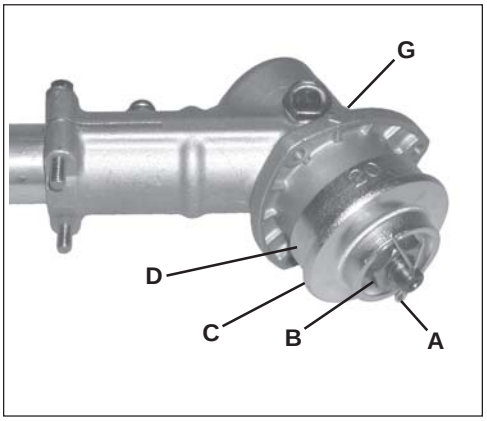
1. Make sure plastic debris shield (F) is properly aligned, and upper plate (D) is installed on splined PTO shaft.
2. Align hole in upper plate (D) with notch in gear housing (G), and insert locking tool (H) to prevent splined shaft from turning.
3. Thread line head (I) onto PTO shaft by turning it counter-clockwise until head is tight against upper plate (D).
4. Remove locking tool.

BLADE OPERATION

WARNING DANGER

You must install the U-Handle and all Blade Conversion parts shown in the following instructions before operating this unit with a metal blade, otherwise serious injury may result.

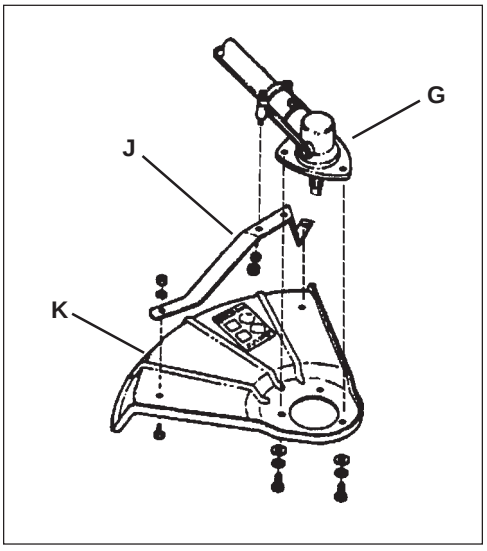
NOTE
Model SRM-260U includes U-Handle, and necessary blade conversion parts. Blades are not provided with trimmer/brushcutters and must be selected for type of cutting being performed. See page 14, "Blade Selection."



Install Metal Shield

Tools Required: 8 x 10 mm Open-end Wrench, Screwdriver, 17x19 mm Wrench, Locking Tool

Parts Required: Metal Shield, Shield Bracket,
3 - 5 x 16 mm screws w/captivated flat and lockwasher, (metal shield to gear housing).
2 - 5 x 8 mm screws, 2 - 5 mm nuts, 2 - 5 mm lockwashers, (bracket to shield).
2 - 5 mm nuts, 2 - 5 mm lockwashers (bracket to gear housing)



1. If installed, remove nylon line head, upper plate and plastic shield, and set upper plate aside for use with blade installation. Retain plastic shield, shield plate, and plastic shield hardware for conversion back to nylon line operation.
2. Align hole in upper plate (D) with notch in gear housing (G), and insert locking tool to prevent splined shaft from turning. Arrow on gear housing flange points to notch location.
3. Remove split pin (A), L.H. blade nut (B), lower plate (C), and upper plate (D) from PTO shaft. Turn blade nut clockwise to remove.
4. Remove locking tool.
5. Loosely attach bracket (J) to shield (K) and attach shield to bottom of gear housing (G) with hardware provided.
6. Tighten all shield hardware.

Install Blade

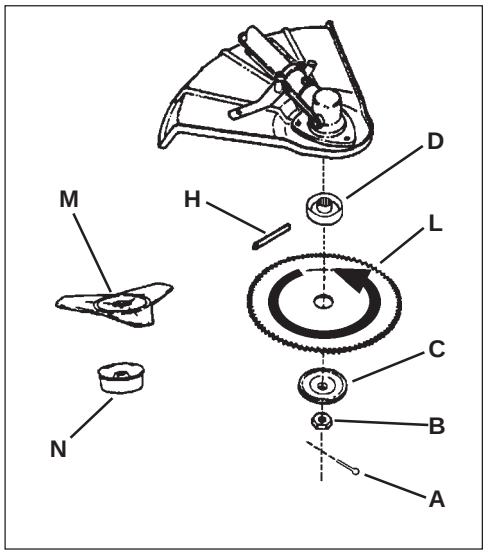
Tools Required: Locking Tool, 17x19 mm Wrench.

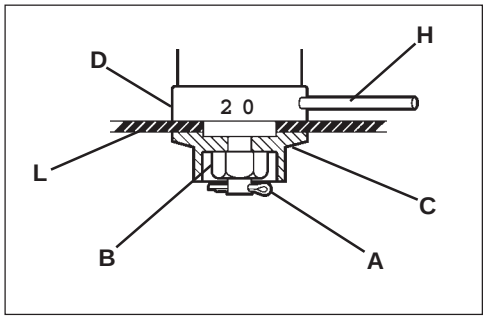
Parts Required: Upper Plate w/ 20 mm pilot, Lower Plate, 10 mm Nut w/ L.H. threads, 2 x 25 mm Cotter Pin, Blade.

1. Install upper plate (D) on splined PTO shaft, pilot side down. Blade installation requires Upper Plate (D) with 20 mm pilot.
2. Install Blade (L) on upper plate pilot. Blades must be installed so that rotation arrow on blade matches rotation of unit: teeth toward direction of rotation (See debris shield decal). Secure blade with Lower Plate (C), and 10 mm L.H. nut (B). Turn nut counter-clockwise on PTO shaft to tighten.
3. Align hole in upper plate with notch in gear housing, and insert Locking Tool (H) to prevent splined shaft from turning. Arrow on gear housing points to notch. Tighten 10 mm nut securely.
4. Insert Cotter Pin (A) in hole in PTO shaft, and bend pin legs around shaft counterclockwise to retain 10 mm nut.

IMPORTANT
Never reuse a cotter pin - install a new cotter pin each time a blade is installed or replaced.

5. Tri-Cut Blade (M) is installed with Glide Cup (N).
6. Remove locking tool.



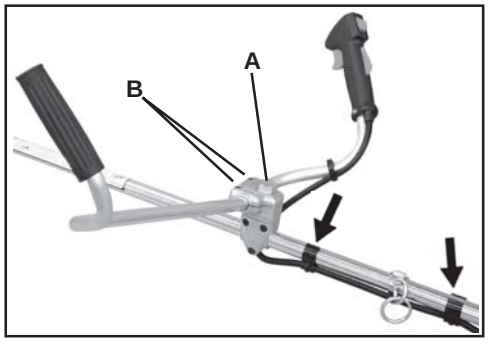


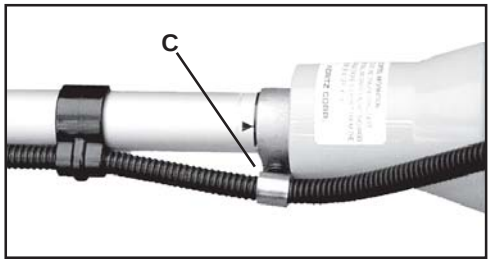
U-HANDLE INSTALLATION

Tools Required: 19 mm wrench, 4 mm hex socket wrench, Pliers

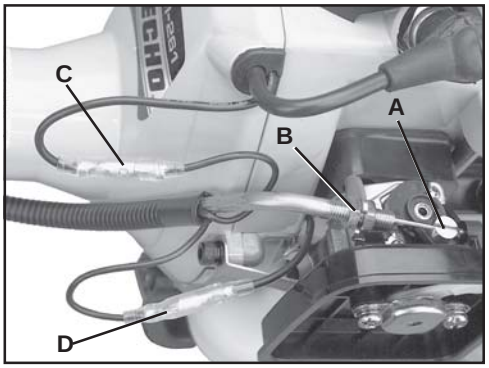
Parts Required: U-Handle, Clamp w/screws, 8 mm x 55 mm hex bolt, 8 mm flat washer

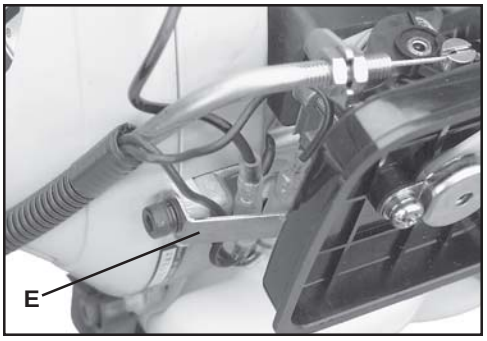
1. Install upper U-Handle and bracket on lower bracket with one (1) 8mm x 55mm bolt (A) and (1) large circular washer. Do not tighten bolt securely until final adjustments are completed.
2. Loosen upper (2) U-handle clamp screws (B), and position U-handle as shown.
3. Lightly tighten 8mm bolt (A) and clamp screws (B) to hold U-handle in position until final adjustments are completed.
4. Route throttle linkage and ignition lead assembly along shaft and clip as shown.
5. Install throttle linkage cable into bracket clamp (C) and pinch snug with pliers. Bend bracket up against drive shaft.





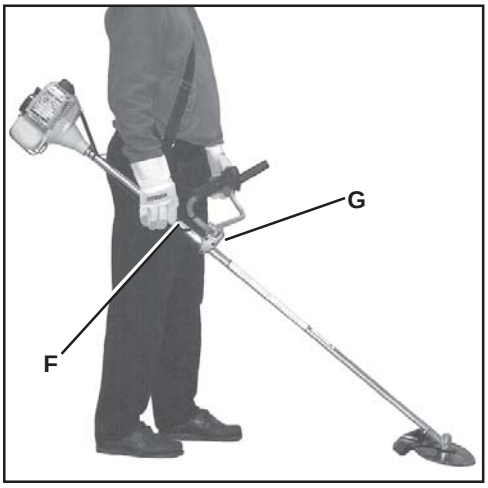
THROTTLE LINKAGE AND IGNITION LEADS





1. Close choke and remove air filter cover.
2. Place inner cable in large hole of carburetor swivel (A).
3. Loosen nuts (B) and place threaded end of throttle linkage in bracket slot. Finger tighten nuts (B).
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 (B), consult with your Echo Dealer for correct adjustment procedure. Tighten nuts (B).
5. Connect ignition stop leads (C) and (D).
6. Bundle and secure ignition leads against engine housing with clip (E).
7. Install air filter and cover.

BALANCE AND ADJUST UNIT



1. Loosen harness clamp screw.
2. Put on harness and attach unit to harness.
3. Slide harness clamp up (F) or down until unit balances with head approximately 50-75 mm (2 -3 in.) from the ground.
4. Tighten harness clamp screw.
5. Loosen upper U-Handle clamp screws (G), and position U-Handle for comfortable operation.
6. Tighten U-Handle clamp screws and 8 mm clamp bolt securely.

OPERATION

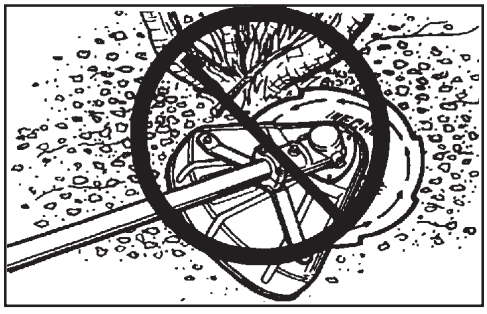
BLADE SELECTION

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 Grass/Weed 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 (P/N 69600120331) 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.



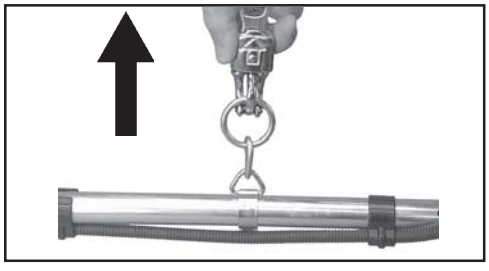
80 Tooth Brush Blade (P/N 69500120331) is designed for cutting brush and woody growth up to 64 mm (2-1/2 in.) diameter.

22 Tooth Clearing Blade (99944200130) is designed for dense thickets and saplings up to 64 mm (2-1/2 in.) diameter.

Use Shoulder/Waist Harness (P/N 99944200200) 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 reducing the possibility of 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

NOTICE: Use of unmixed, improperly mixed, or fuel older than 90 days, (stale fuel), may cause hard starting, poor performance, or severe engine damage and void the product warranty. Read and follow instructions in the Storage section of this manual.

Fuel Requirements

Gasoline - Use 89 Octane [R+M/2] (mid grade or higher) gasoline known to be good quality. Gasoline may contain up to 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 (ISO/CD 13738) and J.A.S.O. FC Standards must be used. Echo brand premium Power Blend ™ Universal 2-Stroke Oil meets these standards. Engine problems due to inadequate lubrication caused by failure to use an ISO-L-EGD and J.A.S.O. FC certified oil, such as Echo premium Power Blend ™, 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 Emission Defect Warranty Explanation.)

IMPORTANT
Echo premium Power Blend ™ Universal 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.

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 or RUNNING!
- DO NOT fill fuel tanks indoors. ALWAYS fill fuel tanks outdoors over bare ground.
- DO NOT overfill fuel tank. Wipe up spills immediately.
- Securely tighten fuel tank cap and close fuel container after refueling.
- Inspect for fuel leakage. If fuel leakage is found, do not start or operate unit until leakage is repaired.
- Move at least 3m (10 ft.) from refueling location before starting the engine.

Fuel to Oil Mix - 50:1 Ratio			
U.S.		METRIC	
GAS	OIL	GAS	OIL
Gallons	Fl. oz.	Liter	cc.
1	2.6	4	80
2	5.2	8	160
5	13	20	400

Mixing Instructions
1. Fill an approved fuel container with half of the required amount of gasoline.
2. Add the proper amount of 2-stroke oil to gasoline.
3. Close container and shake to mix oil with gasoline.
4. Add remaining gasoline, close fuel container, and remix.

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.

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, airtight container. Store in a well-ventilated, unoccupied building, away from sparks and flames.

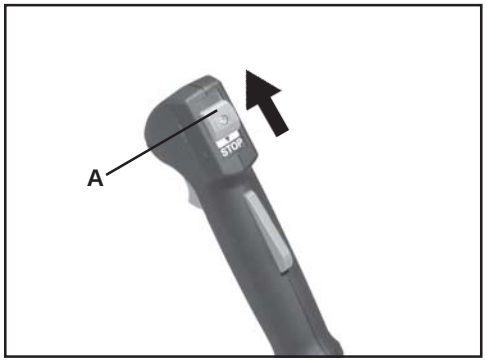
IMPORTANT
Stored fuel ages. Do not mix more fuel than you expect to use in thirty (30) days, ninety (90) days when a fuel stabilizer is added.

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

STARTING COLD ENGINE

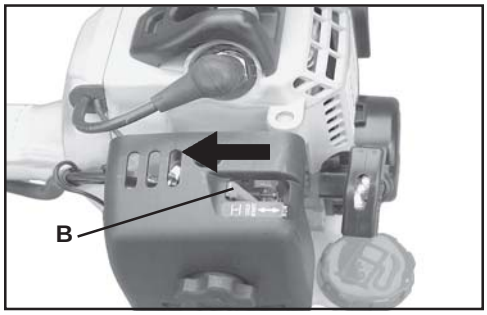
WARNING DANGER

The attachment will operate immediately when the engine starts and could result in loss of control and possible serious injury. Keep movable parts of the attachment off the ground and away from objects that could become entangled or thrown.



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

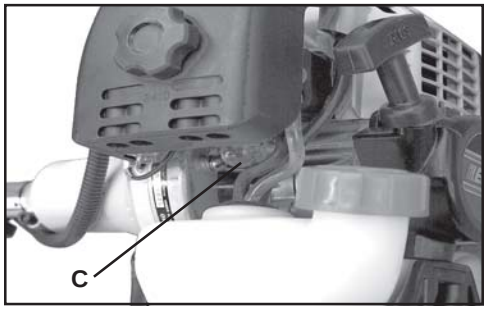
2. *Choke*
   Move choke lever (B) to Cold Start Position ( ).



3. *Purge Bulb*
   Pump purge bulb (C) until fuel is visible and flows freely in the clear fuel tank return line. Pump bulb an additional 4 or 5 times.

NOTE
Lightly place knee on drive shaft to stabilize unit during starting. Do not apply excessive downward force or damage to unit can occur.

4. *Recoil Starter*
   Lay the unit on a flat area and keep movable attachment parts clear of all obstacles. Firmly grasp right hand grip and throttle trigger lockout with left hand and fully depress throttle trigger to wide open position. Rapidly pull recoil starter handle/rope (D) until engine fires (or maximum five [5] pulls).



5. *Choke*
   After engine fires (or 5 pulls), move choke lever back to Run ( ) position. Hold throttle trigger and throttle trigger lockout fully depressed, and pull recoil starter starter handle/rope until engine starts and runs. Release throttle trigger, and 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 2 - 5.

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

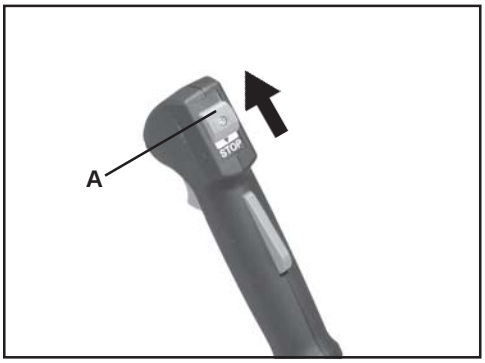
STARTING WARM ENGINE

The starting procedure is the same as Cold Start except DO NOT close the choke, and do not hold throttle trigger fully depressed.

WARNING DANGER

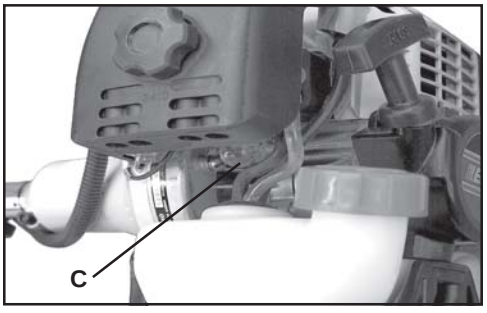
The attachment should not move at idle, otherwise serious personal injury may result.

NOTE
If attachment moves, readjust carburetor according to "Carburetor Adjustment" instructions in this manual or see your ECHO Dealer.



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

2. *Purge Bulb*
   Pump purge bulb (C) until fuel is visible in the "Clear" fuel return line.



NOTE
Lightly place knee on drive shaft to stabilize unit during starting. Do not apply excessive downward force or damage to unit can occur.

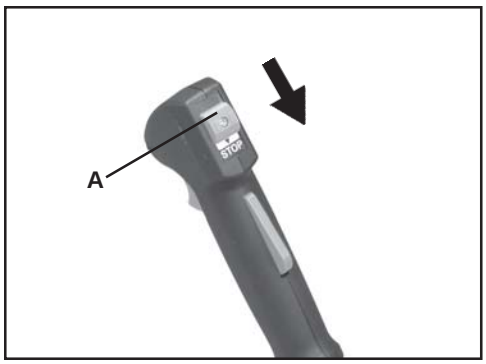
3. *Recoil Starter*
   Lay the unit on a flat area and keep movable attachment parts clear of all obstacles. Rapidly pull the recoil starter handle (D) until the engine fires.

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 trimmer is designed to provide many hours of trouble free service. Regular scheduled maintenance will help your trimmer 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 the 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 servicing.

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: Cleaning brush, 25 or 50 mm (1 or 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 filter area.

2. Remove the air filter cover. Lightly brush debris from filter. If filter is fuel soaked, deformed, or very dirty, replace it.

3. If filter can be reused, be certain it:
   • fits tightly in the air filter cavity.
   • is installed with the original side out.

FUEL FILTER

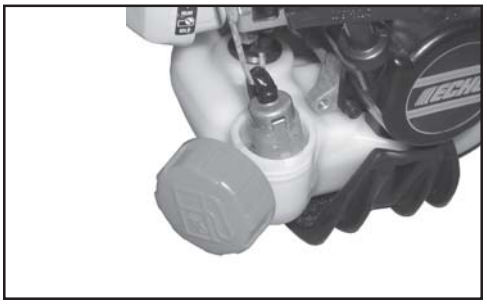
Level 1.

Tools required: 200-250 mm (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.

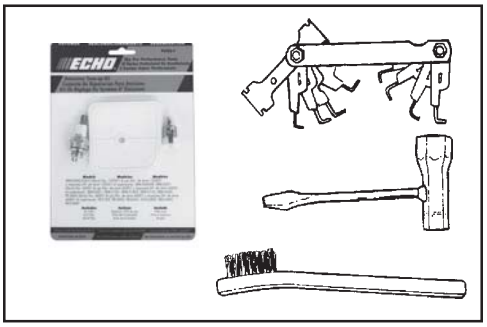


1. Use a clean rag to remove loose dirt from around fuel cap and empty fuel tank.

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

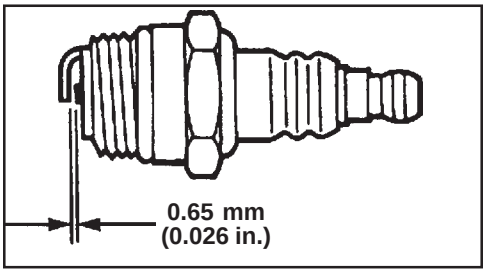


Level 2.

Tools Required: T-Wrench (combination socket wrench & screw driver supplied with unit) Feeler gauge, preferably a wire gauge. Soft Metal Brush.

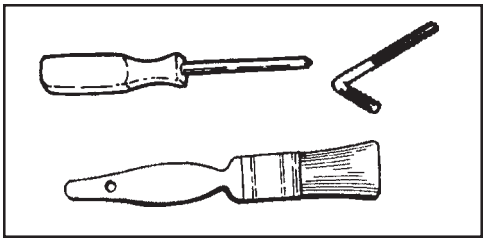
Parts Required: REPOWER™ Tune-Up Kit P/N 90075

IMPORTANT
Use only NGK BPM-8Y spark plug (BPMR-8Y in Canada) otherwise severe engine damage may occur.



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 150-170 kg/cm (130-150 in. lb.).

COOLING SYSTEM



Level 2.

Tools required: Cross Head Screwdriver, 4 mm Hex Wrench, Cleaning Brush, 25 or 50 mm (1 or 2 in.) medium bristle paint brush.

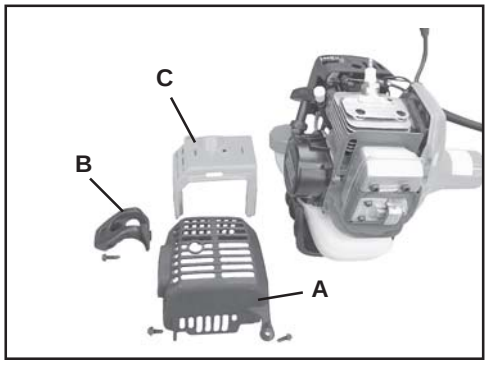
Parts Required: None if you are careful.

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.

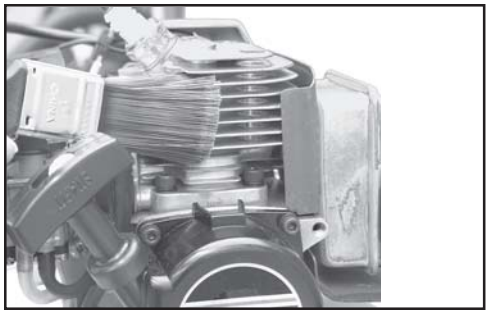
Removal of cooling passage blockages or cleaning of cooling fins is considered “Normal Maintenance”. Any failure attributed to lack of maintenance is not warranted.

1. Remove spark plug lead.
2. Remove two (2) muffler cover screws and muffler cover (A).
3. Remove screw and arm rest (B).
4. Remove engine cover (C).

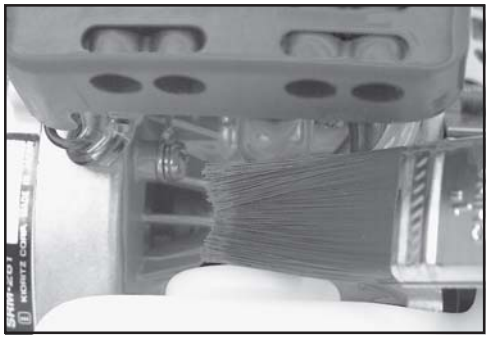


IMPORTANT
DO NOT use a metal scraper to remove dirt from the cylinder fins.

5. Use brush to remove dirt from the cylinder fins.



6. Remove grass and leaves from the grid between the recoil starter and fuel tank.



7. Assemble components in reverse order.

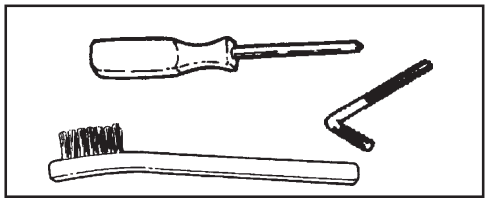
EXHAUST SYSTEM

Spark Arrestor Screen

Level 2.

Tools Required: Cross Head Screwdriver, Soft Metal Brush, 4 mm Hex Wrench

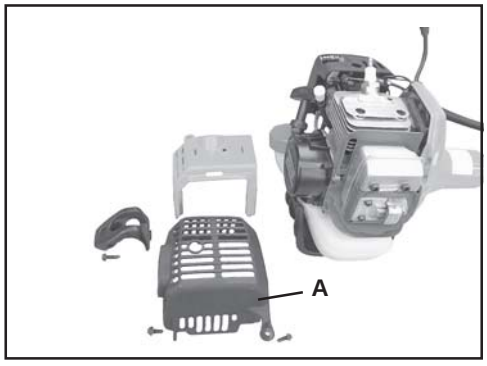
Parts Required: Spark Arrestor Screen, Gasket



1. Remove two (2) muffler cover screws and muffler cover (A).

2. Place piston at Top Dead Center (TDC) to prevent carbon/dirt from entering cylinder.

3. Remove spark arrestor screen cover (B), gasket (C) and screen (D) from muffler body.

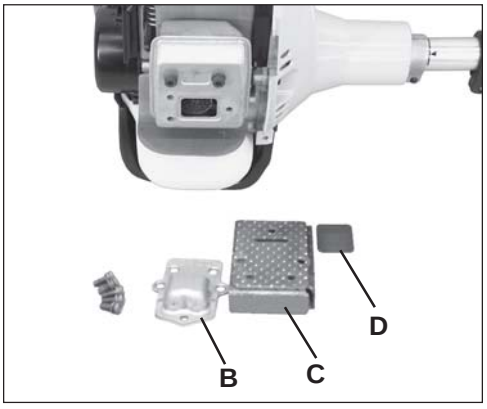


NOTE
When cleaning carbon deposit, be careful not to damage the catalytic element inside muffler.

4. Clean carbon deposits from muffler components.

5. Replace screen if it is cracked, plugged, or has holes burned through.

6. Assemble components in reverse order.



Cylinder Exhaust Port

Level 3

IMPORTANT
The cylinder exhaust port must be inspected and cleaned of excess carbon every 3 months or 90 hours of operation in order to maintain this engine within the emissions durability period. ECHO strongly recommends that you return your unit to your ECHO dealer for this important maintenance service.

CARBURETOR ADJUSTMENT

Engine Break-In

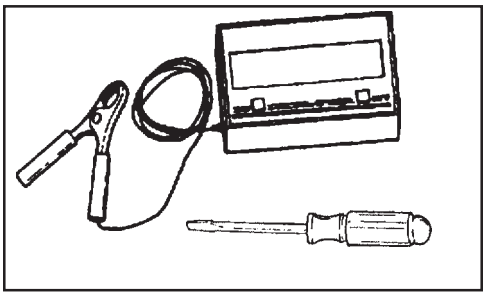
New engines must be operated a minimum duration of two tanks of fuel break-in before carburetor adjustments can be made. During the break-in period your engine performance will increase and exhaust emissions will stabilize. Idle speed can be adjusted as required.

High Altitude Adjustment

High altitude adjustment is not required for proper operation of this engine.

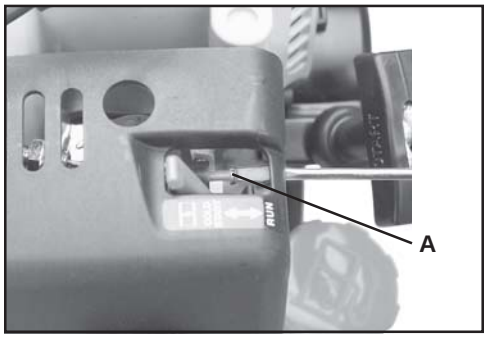
Level 2.
Tools required: Screwdriver, Tachometer (ECHO P/N 99051130017).

Parts required: None.



NOTE
Every unit is run at the factory and the carburetor is set in compliance with emission regulations. This carburetor does not have acceleration and high speed adjustment needles.

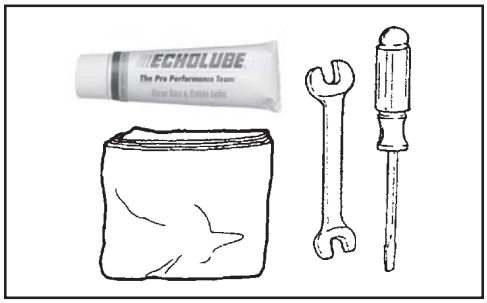
1. Check idle speed and reset if necessary. If a tachometer is available, idle speed screw (A) should be set to the specifications found on page 29 "Specifications" of this manual. Turn idle screw (A) clockwise to increase idle speed; counter clockwise to decrease idle speed.



WARNING DANGER

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

LUBRICATION

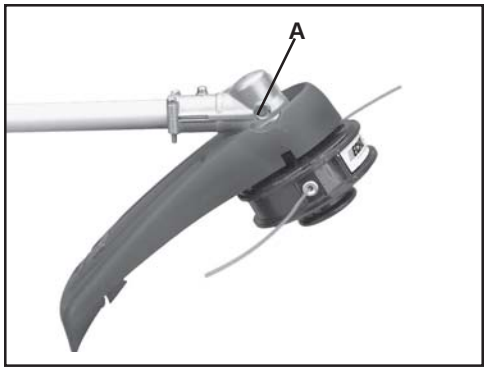


Level 1.

Tools Required: 13 mm Open End Wrench, Screwdriver, Clean Rag.

Parts Required: ECHO® LUBE™ 8 oz. (P/N 91014) or Lithium Base Grease.

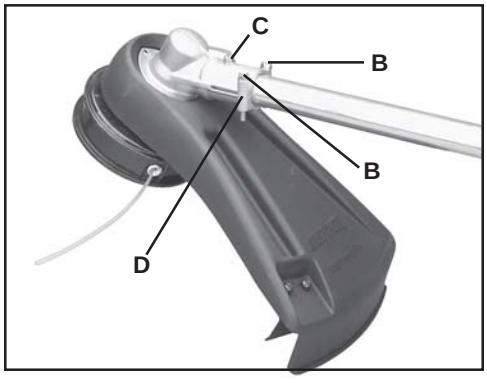
Gear Housing



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.

Drive Shaft

1. Loosen two (2) screws (B) and remove center locating screw (C). Pull gear box and shield from drive shaft housing.
2. Pull flexible cable from the drive shaft housing, wipe clean and recoat with a thin coating [15 ml (1/2 oz.)] of ECHO® LUBE™ grease.
3. Slide the flexible cable back in the drive housing. DO NOT get dirt on the flex cable.
4. Install the gear housing and shield assembly.



IMPORTANT
Flat edge of washers (D) must be against drive shaft.

NYLON LINE REPLACEMENT

Level 1.

Parts Required: ECHO 2.4mm (0.095 in.) Nylon Trimmer Line 12m (40 feet [two 20 ft. sections])

Echomatic Pro Trimmer Head

1. Do not push spool in. Hold drum and turn spool clockwise until peg clicks and disappears from hole. Pull spool out of drum.

2. Place ends of two 20 ft. x .095 in. Crossfire™ trimmer lines into holes in spool, one on each side of barrier.

3. Wind both lines tightly and evenly (one on each side of barrier) in the direction of arrow on bottom of spool.

4. Place ends of lines into notches in spool, leaving 6 in. protruding.

5. Feed ends of line outward through eyelets in drum.

6. Turn inner drive so that pegs in drive align with grooves in spool, and push spool into drum.

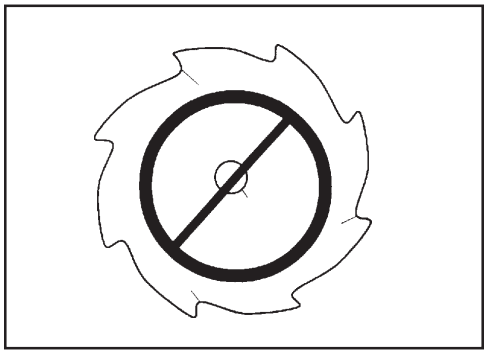
7. Hold spool and drum securely with one hand, and pull each line to disengage from notches.

8. Hold drum and twist spool counter clockwise until peg clicks into hole.

9. Trim lines to 8 in. length.

SHARPENING METAL BLADES

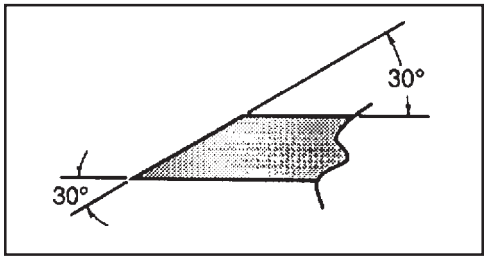
Three styles of metal blades are approved for use on the ECHO Brush Cutter. The 8-tooth blade can be sharpened during normal maintenance. The clearing blade and 80 tooth blade require professional service.



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.

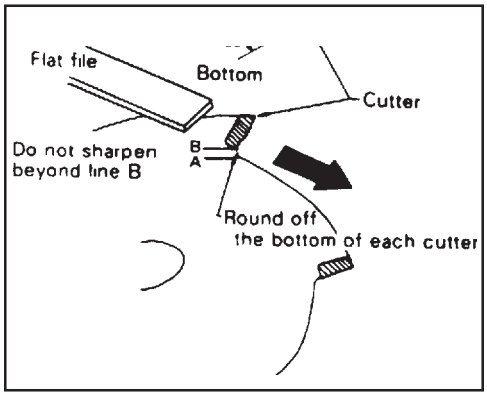
Tool required: Flat file (preferred). Electric grinder if special care is used. Round (rat tail) file for gullet (radius).



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	Excessive dirt/debris	Extended operation in dirty/dusty locations	Clean
	Spark Arrestor Screen	Screen cracked, plugged, or perforated	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 by grounding spark plug near cylinder plug hole, 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.) 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).

SPECIFICATIONS

MODEL	**SRM-260U**
Length	1795 mm (70.7 in.)
Width	711 mm (28.0 in.)
Height	478.5 mm (18.84 in.)
Weight (dry) w/Cutter Head	6.3 kg (13.8 lb.)
Engine Type	Air cooled, two-stroke, single cylinder gasoline engine
Bore	34.0 mm (1.34 in.)
Stroke	28.0 mm (1.10 in.)
Displacement	25.4 cc (1.55 cu. in.)
Exhaust	Spark Arrestor Muffler w/catalyst
Carburetor	Walbro w/purge pump
Ignition System	Flywheel magneto, capacitor discharge ignition type
Spark Plug	NGK BPM-8Y (Gap 0.65 mm (0.026 in.)
Fuel	Mixed (Gasoline and Two-stroke Oil)
Fuel/Oil Ratio	50:1 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	Power Blend ™ Premium Universal 2-Stroke Oil
Fuel Tank Capacity	0.58 lit. (19.6 US fl. oz.)
Starter System	Automatic Rewind Starter
Clutch	Centrifugal Type
Vibration Isolated System	Rubber cushion on engine mount (heavy duty). Rubber grip on front handle.
Operating Rod	25.0 mm aluminum Tube
Drive Shaft	6.35 mm (1/4 in.) flexible shaft
Gear Case Ratio	1.4:1 Reduction
Rotating Direction	Counter Clockwise; viewed from top
Cutter Head	Nylon line head (2-line) with .095 Crossfire™ Line capacity 12m (40 ft.)
Handle	U-Handle
Shoulder Harness	Standard
Idle Speed	2,750 - 3,250 RPM
Wide Open Throttle Speed (W.O.T.) with Nylon Line Head	8,500 - 10,500 RPM
Wide Open Throttle Speed (W.O.T.) with Blade	9,000 - 11,500 RPM

NOTES

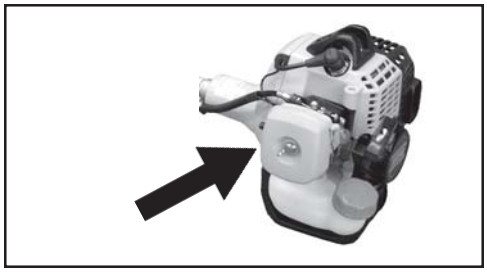
NOTES

SERVICING INFORMATION

PARTS

Genuine ECHO Parts and ECHO REPOWER™ 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. _____



DEALER?
Call
1-800-432-ECHO
or
www.echo-usa.com

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.

CONSUMER PRODUCT SUPPORT
1-800-673-1558
8:30 - 4:30 Mon - Fri C.S.T.

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 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.
- Manuals are available by sending a written request stating the model number and serial number of your Echo unit, part number of the manual, your name and address, and mail to the address below.

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

ECHO, INCORPORATED
400 OAKWOOD ROAD
LAKE ZURICH, IL 60047
www.echo-usa.com

06001001/06999999