



Grass Trimmer/Brush Cutter

Operator's Manual

MODELS

SRM-265T

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

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. Failure to do so could result in serious injury.

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. It 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. It explains possible hazards involved with the use of Grass Trimmers and Brush Cutters and what measures you should take to make their use safer.

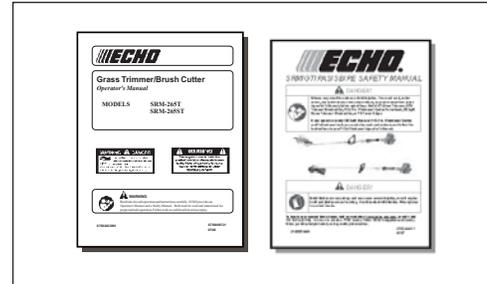


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Specifications, descriptions and illustrative material in this literature are as accurate as known at the time of publication, but are subject to change without notice. Illustrations may include optional equipment and accessories, and may not include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

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.

⚠ DANGER
The safety alert symbol accompanied by the word “DANGER” calls attention to an act or condition which **WILL** lead to serious personal injury or death if not avoided.

⚠ WARNING
The safety alert symbol accompanied by the word “WARNING” calls attention to an act or condition which **CAN** lead to serious personal injury or death if not avoided.

⚠ CAUTION
The safety alert symbol accompanied by the word “CAUTION” calls attention to an act or condition which may lead to minor or moderate personal injury if not avoided.

⊘ CIRCLE AND SLASH SYMBOL
This symbol means the specific action shown is prohibited. Ignoring these prohibitions can result in serious or fatal injury.

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

IMPORTANT
The enclosed message provides information necessary for the protection 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
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.
- DONOTWEARSHORTS,
- DONOTWEARTIES,SCARFS,JEWELRY.

Wear protective hair covering to contain long hair.

Wear sturdy work shoes with nonskid soles;

- DONOTWEAROPENTOEDSHOES,
- DONOTOPERATEUNITBAREFOOTED.

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.

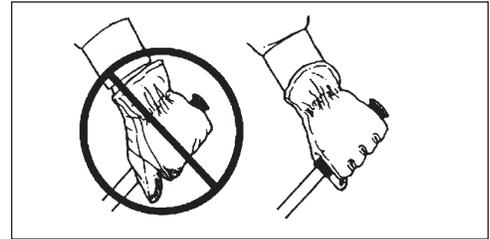


Repetitive Stress Injuries

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.



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

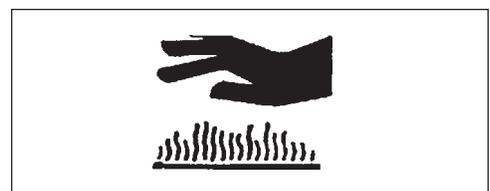
- Hold the front and rear handles with both hands, with thumbs and fingers encircling the handles.

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

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.



WARNING

Moving parts can amputate fingers or cause severe injuries. Keep hands, clothing and loose objects away from all openings.

- **ALWAYS** stop engine, disconnect spark plug, and make sure all moving parts have come to a complete stop before removing obstructions, clearing debris, or servicing unit.
- **DO NOT** start or operate unit unless all guards and protective covers are properly assembled to unit.
- **NEVER** reach into any opening while the engine is running. Moving parts may not be visible through openings.

EMISSION CONTROL

EPA Phase 2 / C.A.R.B. TIER III

The emission control system for the engine is EM/TWC (Engine Modification and 3-way Catalyst) and for the fuel tank the Control System is EVAP (Evaporative Emissions). Evaporative emission may be applicable to California models only.

IMPORTANT ENGINE INFORMATION

ENGINE FAMILY: 8EHXS.0254KG DISPLACEMENT: 25.4 cc
EMISSION COMPLIANCE PERIOD : 300 HRS.
THIS ENGINE MEETS U.S. EPA PHASE 2 EMISSION
REGULATIONS FOR SMALL NONROAD ENGINES. REFER
TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICA-
TIONS AND ADJUSTMENTS.



KIORTZ CORP.

IMPORTANT ENGINE INFORMATION

ENGINE FAMILY: 8EHXS.0254KG DISPLACEMENT: 25.4 cc
EMISSION COMPLIANCE PERIOD : 300 HRS.
THIS ENGINE MEETS U.S. EPA PH2 EXH AND 2007 AND
LATER CALIFORNIA EXH AND EVAP EMISSION REGULA-
TIONS FOR S.O.R.E.. REFER TO OWNER'S MANUAL FOR
MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.



KIORTZ CORP.

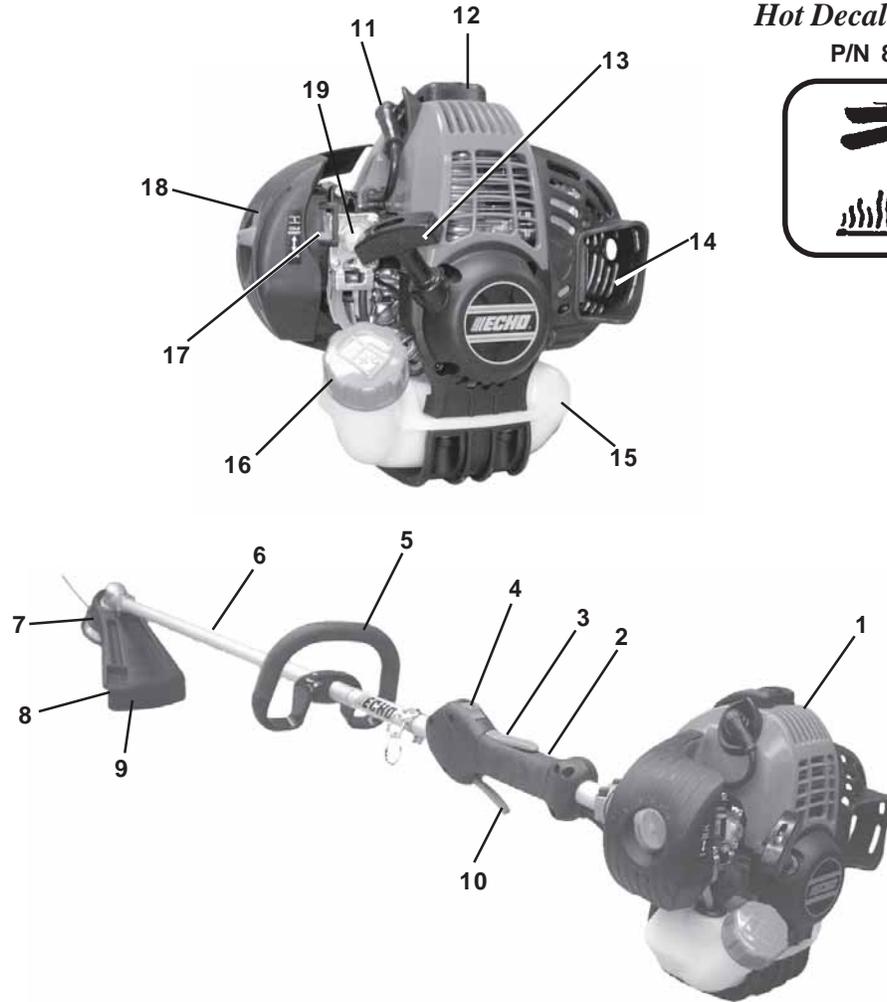
An Emission Control Label is located on the engine. (This is an EXAMPLE ONLY, information on label varies by engine FAMILY).

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.

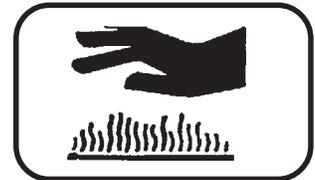
DESCRIPTION

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



English Translation



P/N X505001930

P/N 89016054130



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 starting. 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 loosely assembled to the Drive Shaft assembly 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, steel drive shaft and Safety Decal.
7. **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.
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. 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. **SPARK PLUG** - Provides spark to ignite fuel mixture.
12. **ARM REST** - Provides arm rest during operation and protects arm from the hot engine.
13. **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.
14. **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.
15. **FUEL TANK** - Contains fuel and fuel filter.
16. **FUEL TANK CAP** - Covers and seals fuel tank opening.
17. **CHOKE** - The choke control is located on the top of the air filter case. Move choke lever to "Cold Start" () to close choke for cold start. Move choke lever to "Run" () position to open choke.
18. **AIRCLEANER** - Contains replaceable filter element.
19. **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.

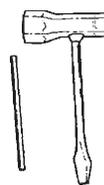
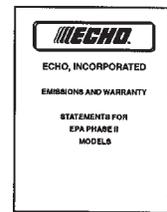
CONTENTS

The ECHO product you purchased has been partially assembled for your convenience. Due to packaging restrictions, installation of the plastic debris shield, nylon line head, and positioning of the front handle are 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.

* Some units may be factory pre-assembled. No assembly tools are needed and the nylon line head, plastic debris shield, and mounting hardware, shown in the contents list, are pre-assembled to the unit. Only the front handle may need to be re-positioned for comfortable operation.

- _____ 1 - Power Head / Drive Shaft Assembly
- _____ - 1, Operator's Manual
- _____ - 1, Safety Manual
- _____ - 1, Warranty Registration Card
- _____ - 1, Limited Warranty Statement
- _____ - 1, Safety Glasses
- _____ - 1, Echo Power Blend X™ 2-stroke oil sample
- * _____ - 1, Nylon Trimmer Head
- * _____ - 1, wrench 17x19, P/N 89541008030
- * _____ - 1, locking tool, P/N 89751801131
- * _____ -1, Plastic shield
- * _____ -1, shield plate
- * _____ -3, 5mm x 16mm screws (shield mtg.)



ASSEMBLY

PLASTIC SHIELD INSTALLATION

(for Nylon Line Operation)

Tools Required: Screwdriver.

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

NOTE

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

1. Remove plastic threaded shaft sleeve and adapter plate (C) from PTO shaft (A).
2. Place the shield on the bottom of the bearing housing flange.
3. Place shield plate (B) on shield, align holes. Install three (3) screws from bottom through plate and shield into gear case.
4. Assemble adapter plate (C) onto PTO shaft.



NYLON LINE HEAD INSTALLATION

Tools Required: Head Locking Tool.

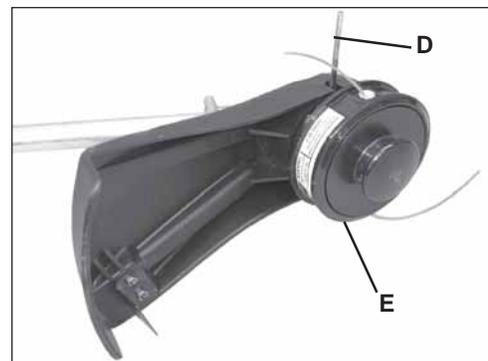
Parts Required: Nylon Line Head.

CAUTION

Wear Gloves or personal injury may result:

- Cutoff knife is sharp.
- Gearcase and surrounding area may be hot.

1. Be sure adapter plate (C) remains on PTO shaft.
2. Align locking hole in upper plate with notch in edge of gear housing and insert head locking tool (D).
3. Thread line head (E) onto shaft by turning it counter-clockwise until head is tight against adapter plate (C).
4. Remove locking tool (D).



TO ADVANCE TRIMMER LINE

Tip:

To advance trimmer line, tap trimmer head against the ground while the head is turning at normal operating speed.

NYLON LINE REPLACEMENT

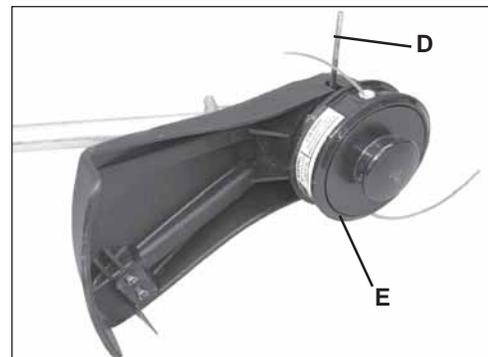
See Maintenance Section for nylon line replacement.

REMOVE NYLON LINE HEAD

NOTE

Do not disassemble nylon line head.

1. Align locking hole in upper plate with notch in edge of gear housing and insert head locking tool (D).
2. Remove line head (E) by turning it clockwise until head is completely off of shaft.
3. Remove locking tool (D).



FRONT HANDLE INSTALLATION

NOTE

Label shows minimum spacing for front handle location.

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



OPERATION



WARNING

Moving parts can amputate fingers or cause severe injuries. Keep hands, clothing and loose objects away from all openings. Always stop engine, disconnect spark plug, and make sure all moving parts have come to a complete stop before removing obstructions, clearing debris, or servicing unit.

OPERATION WITH BLADES

Preparing the Trimmer/Brush Cutter for Blade Use



WARNING

Blade use **DEMANDS** specific Brush Cutter configuration. Operation without specified shield, barrier bar or U-handle, and harness can result in serious personal injury. Follow installation instructions included in optional kits.

SRM/PAS/SB BLADE SET-UP GUIDE*

| TO USE THESE BLADES → | | Pro Maxi-Cut Grass/Weed Plastic Cutters | Rigid Plastic Tri-Cut Grass/Weed Blade | Metal Tri-Cut/8 Tooth Grass/Weed Blade | Metal 80T Brush Blade Metal 22T Clearing Saw Blade |
|---|-------------------------|---|--|--|---|
| → You must install these parts! → | Handle | Loop Handle, w/or w/o Barrier Bar | Loop Handle w/Barrier Bar, or U-Handle | Loop Handle w/Barrier Bar, or U-Handle | U-Handle |
| | Debris Shield | Metal Shield | Metal Shield | Metal Shield | Metal Shield |
| | Harness | Shoulder Harness | Shoulder Harness | Shoulder Harness | Shoulder Harness**** |
| | Blade Mounting Hardware | Upper Plate & Flat Washer | Upper Plate & Glide Cup | Upper/Lower Blade Plates** | Upper/Lower Blade Plates** |
| Hex Nut | | Hex Nut | Hex Nut | Hex Nut | |
| New Cotter Pin*** | | New Cotter Pin*** | New Cotter Pin*** | New Cotter Pin*** | |

* **WARNING! DO NOT INSTALL BLADES ON GT (CURVED SHAFT) MODEL TRIMMERS**

** Arbor diameter of Upper Blade Plate must match arbor diameter of metal blades.

*** New cotter pin required each time blade is installed.

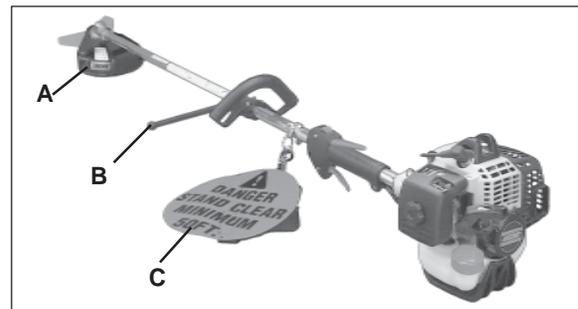
**** Brushcutters over 16.5 lbs (7.5 kg) dry weight (weight w/o fuel) require a double shoulder harness

Grass/Weed Blades Require:

Install Blade Conversion Kit, Includes metal shield (A), barrier bar (B), and shoulder harness (C).

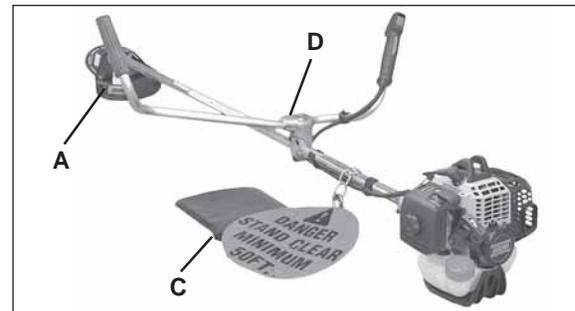
NOTE

The Barrier Bar is used to restrict rearward movement of the unit. The Barrier Bar is NOT A HANDLE and should not be gripped when using or carrying the unit.



Brush/Clearing Blades Require:

Install U-Handle / Blade Conversion Kit, Includes metal shield (A), shoulder harness with hip pad (C), and U-Handles (D).



Choosing the Correct Blade



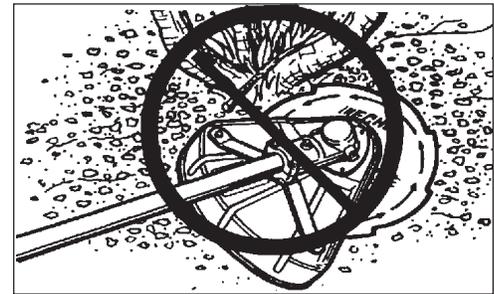
WARNING

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 (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.



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.



WARNING

Alternative fuels, such as E-20 (20% ethanol), E-85 (85% ethanol) or any fuels not meeting ECHO requirements are **NOT** approved for use in ECHO 2-stroke gasoline engines. Use of alternative fuels may cause performance problems, loss of power, overheating, fuel vapor lock, and unintended machine operation, including, but not limited to, improper clutch engagement. Alternative fuels may also cause premature deterioration of fuel lines, gaskets, carburetors and other engine components.

Fuel Requirements

Gasoline - Use 89 Octane [R+M/2] (mid grade or higher) gasoline known to be good quality. Gasoline may contain up to 10% Ethanol (grain alcohol) or 15% MTBE (methyl tertiary-butyl ether). Gasoline containing methanol (wood alcohol) is **NOT** approved.

Two Stroke Oil - A two-stroke engine oil meeting ISO-L-EGD (ISO/CD 13738) and JASO M345/FC/FD Standards must be used. ECHO brand premium Power Blend X™ Universal 2-Stroke Oil meets these standards. Engine problems due to inadequate lubrication caused by failure to use an ISO-L-EGD (ISO/CD 13738) and JASO M345/FC/FD certified oil, such as ECHO premium Power Blend X™, 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 X™ 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



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.

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.

| 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 |

STARTING COLD ENGINE



WARNING

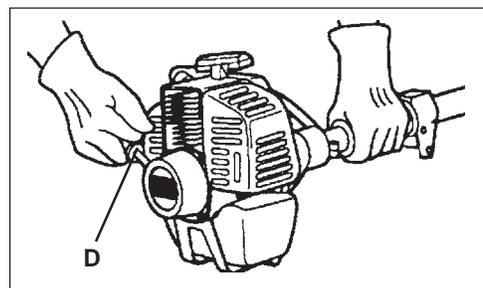
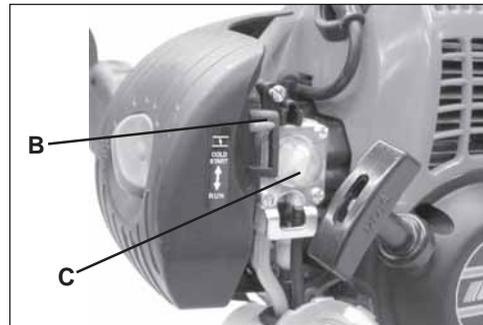
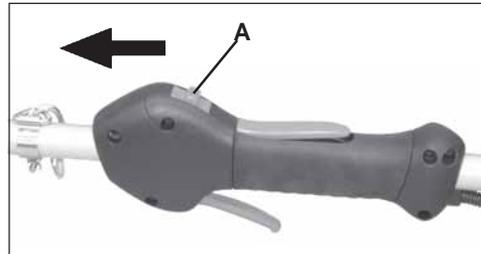
The attachment will operate immediately when the engine starts and could result in loss of control and possible serious injury. Keep movable parts of the attachment off the ground and away from objects that could become entangled or thrown.

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.
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 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

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

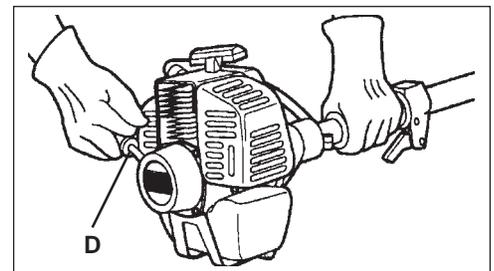
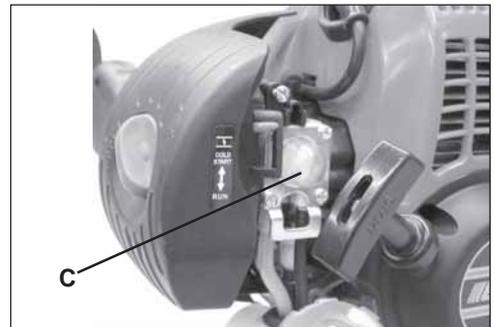
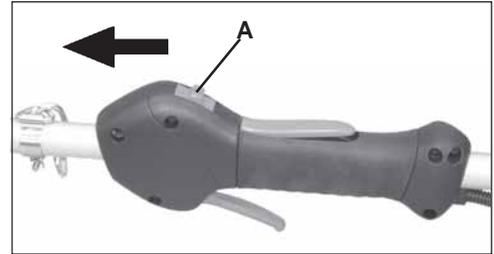
NOTE

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.
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.



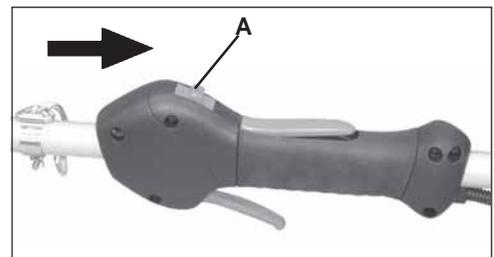
STOPPING ENGINE

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



WARNING

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

WARNING

Moving parts can amputate fingers or cause severe injuries. Keep hands, clothing and loose objects away from all openings. Always stop engine, disconnect spark plug, and make sure all moving parts have come to a complete stop before removing obstructions, clearing debris, or servicing unit. Allow unit to cool before performing service. Wear gloves to protect hands from sharp edges and hot surfaces.

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.

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 (3) * | I (3) | 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.

(3) Low evaporative fuel tanks DO NOT require regular maintenance to maintain emission integrity.

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

AIR FILTER

Level 1.

Tools required: 25 - 50 mm (1 - 2 in.) Cleaning Brush

Parts required: Air & Fuel Filter REPOWER™ 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 air cleaner area.
2. Remove air filter cover. Brush dirt from inside cover.
3. Remove air filter and lightly brush debris from filter. Replace filter if it is damaged, fuel soaked, very dirty, or the rubber sealing edges are deformed.
4. If filter can be reused, be certain it:
 - Fits tightly in the air filter cavity.
 - Is installed with the original side out.
5. Install air filter cover.



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: Air & Fuel Filter REPOWER™ Kit



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

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.

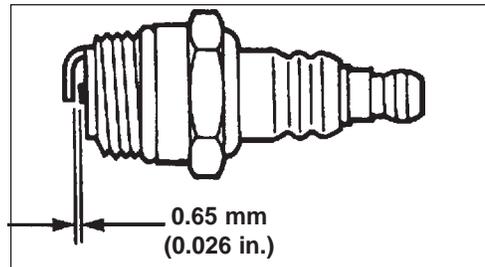
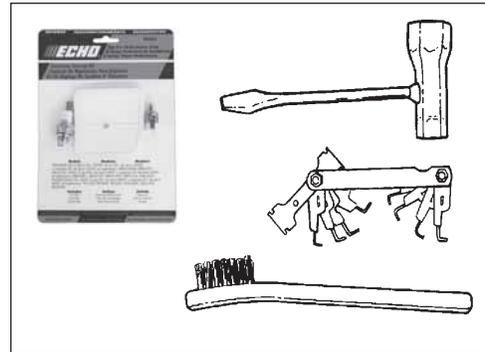
Tools required: T-Wrench, feeler gauge, soft metal brush

Parts Required: REPOWER™ Tune-Up Kit

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, 3 & 4 mm Hex Wrench, Cleaning Brush, 25 - 50 mm (1 - 2 in.)

Parts Required: None if you are careful.

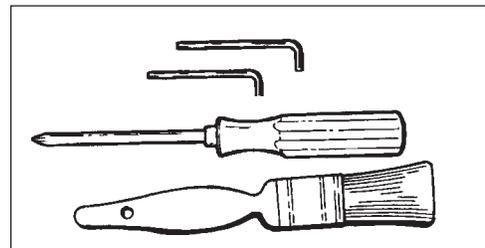
IMPORTANT

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.

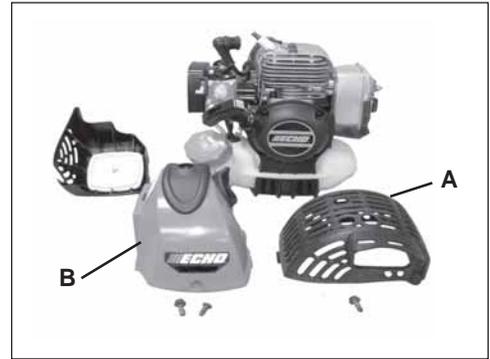


1. Remove spark plug lead.
2. Remove air cleaner cover.
3. Remove muffler cover screw and muffler cover (A).
4. Remove 2 engine cover screws and engine cover (B).

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.



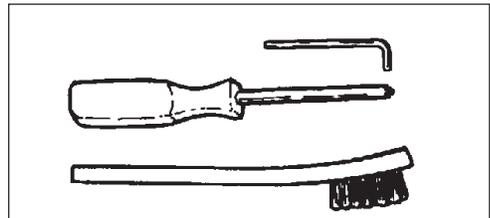
EXHAUST SYSTEM

Spark Arrestor Screen

Level 2.

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

Parts Required: Spark Arrestor Screen, Gasket

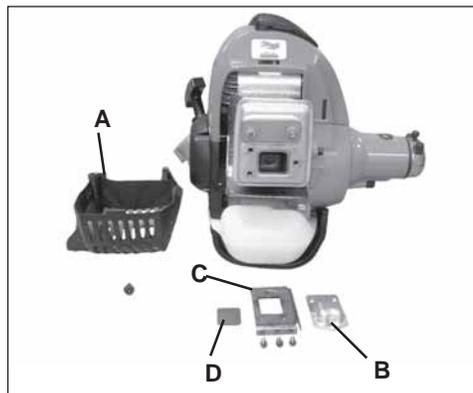


1. Remove muffler cover screw and muffler cover (A).
2. Place piston at Top Dead Center (TDC) to prevent carbon/dirt from entering cylinder.
3. Remove spark arrestor screen cover (B), gasket (C), and screen (D), from muffler body.
4. Clean carbon deposits from muffler components.

NOTE

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

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 of two tanks of fuel 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 Operation

This engine has been factory adjusted to maintain satisfactory starting, emission, and durability performance up to 1,000 feet above mean sea level (MSL). To maintain proper engine operation above 1,000 feet MSL the carburetor must be adjusted by an authorized ECHO service dealer.

IMPORTANT

If the engine is adjusted for operation *above* 1,000 feet MSL, the carburetor must be re-adjusted when operating the engine *below* 1,000 feet MSL, otherwise severe engine damage can result.

Level 3.

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

Parts required: None.

NOTE

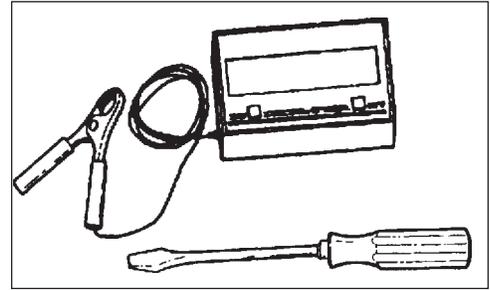
Every unit is run at the factory and the carburetor is set in compliance with emission regulations. Carburetor adjustments, other than idle speed, must be performed by an authorized ECHO dealer.

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

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



LUBRICATION

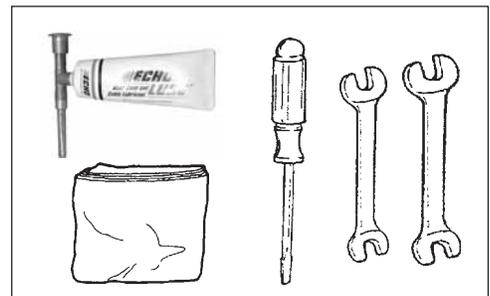
Level 1.

Tools Required: 8 & 13mm Open End Wrench, Screwdriver, Clean Rag, Grease Gun

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.

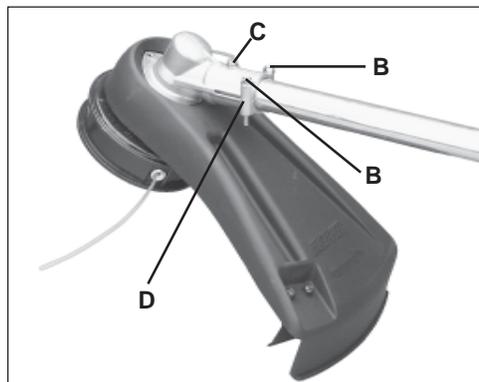


Drive Shaft

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 re-coat with a thin coating [15 ml (1/2 oz.)] of 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.

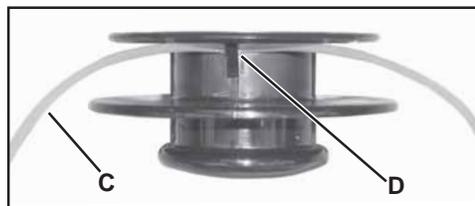
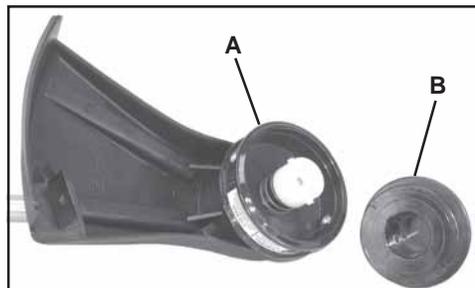
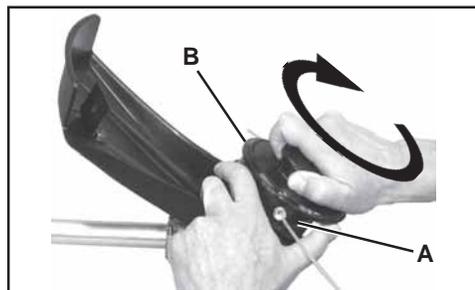


NYLON LINE REPLACEMENT

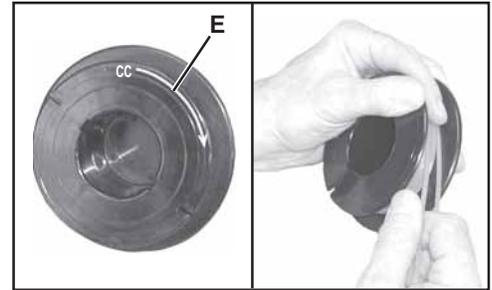
Level 1.

Parts Required: ECHO 0.095" Nylon Trimmer Line 6 m (20 ft.) long.

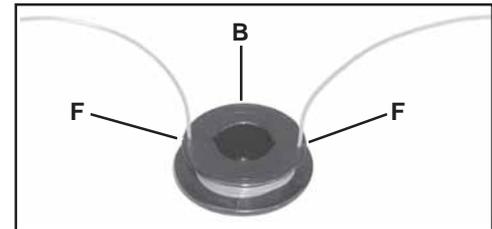
1. Shut engine off. Lay unit on the ground with head assembly up.
2. Hold drum (A) and firmly turn spool (B) CW (clockwise) until it disengages from the inner drive. Pull spool from drum. DO NOT push in on spool when turning.
3. Use one piece of new nylon line (C) 6 m (20 ft.) long and thread through the molded loop (D) on the spool. Pull line tight and adjust so one end is 15 cm (6 in.) longer than the other.



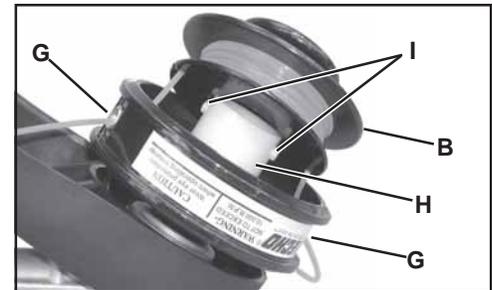
4. Hold the spool, opening toward you. Place index finger between the two strands and wind line, tightly and evenly, in direction of arrow (E) marked "CC".



5. Stop when approximately 15-20 cm (6-8 in.) line (C) remains and place ends of line in notches (F) in spool (B).

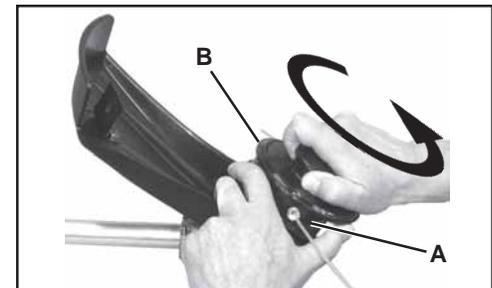


6. Feed ends of line through housing eyelets (G) and place spool (B) over drive (H). Align pegs (I) on drive with notches in spool, and push spool into drum.



7. Pull on both lines until they come free from notches (F) in spool.

8. Hold drum (A) firmly and turn spool (B) CCW (counterclockwise) until it stops. DO NOT push in on spool when turning.



9. Pull both lines out and trim to cut-off knife 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.

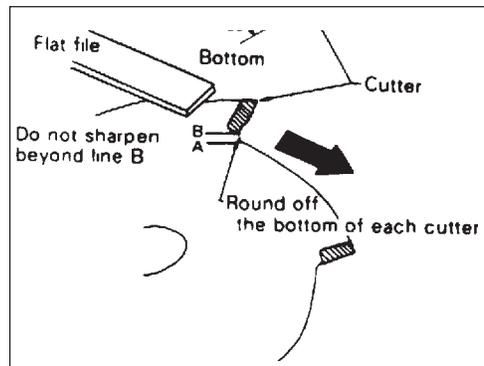
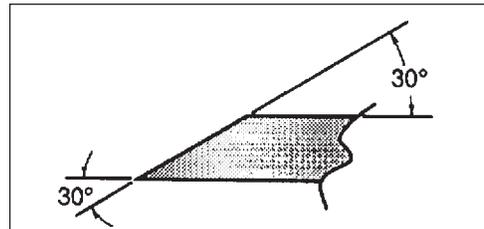
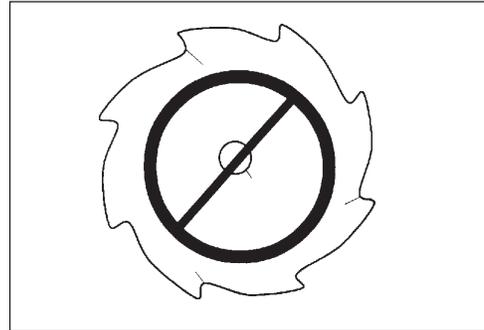
Tool required: Flat file (preferred). Electric grinder if special care is used. Round (rat tail) file for gullet (radius).

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 |



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

Long Term Storage (over 30 days)



WARNING

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.

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.



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 "OFF" 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 starter 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-265T |
| Length w/o cutter head | 1810 mm (71.3 in.) |
| Width | 245 mm (9.65 in.) |
| Height | 340 mm (13.4 in.) |
| Weight (dry) w/o Cutter Head | 5.75 kg (12.8 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 | Zama diaphragm model w/purge pump |
| Ignition System | Flywheel magneto, capacitor discharge |
| Spark Plug | NGK BPM-8Y (Gap 0.65 mm (0.026 in.)) |
| Fuel | Mixed (Gasoline and Two-stroke Oil) |
| Fuel/Oil Ratio | 50 : 1 Power Blend X™ ISO-L-EGD (ISO/CD 13738) and J.A.S.O. M345- <u>FC/FD</u> , two-stroke, air-cooled engine oil. |
| Gasoline | Use 89 Octane unleaded. Do not use fuel containing methyl alcohol, more than 10% ethyl alcohol or 15% MTBE. Do not use alternative fuels such as E-20 or E-85. |
| Oil | Power Blend X™ Premium Universal 2-Stroke Oil |
| Fuel Tank Capacity | 0.50 lit. (16.9 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 6m (20ft.) |
| Handle | Front - Loop and Right Rear Handle w/rubber grips |
| Shoulder Harness | Optional |
| Idle Speed | 2,600 - 3,200 RPM |
| Clutch Engagement Speed | 3,600 - 4,200 RPM |
| Wide Open Throttle Speed (W.O.T.) | 8,500 - 12,000 RPM |

NOTES

NOTES

SERVICING INFORMATION

PARTS/SERIAL NUMBER

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, Type 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. _____ Type _____ 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

To ensure trouble free warranty coverage it is important that you register your ECHO equipment on-line at www.echo-usa.com. Other registration options are by automated phone at 1-800-432-3246 or by filling out the warranty registration card supplied with your unit. Registering your product confirms your warranty coverage and provides a direct link between you and ECHO if we find it necessary to contact you.

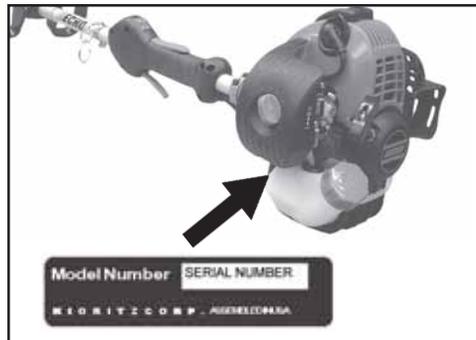
ADDITIONAL OR REPLACEMENT MANUALS

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.



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