



Operator's Manual DSRM-2600/U Grass Trimmer / Brushcutter

WARNING

Read and understand all provided literature before use. Failure to do so could result in serious injury.

WARNING

Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Note: This product complies with CAN ICES-003(B) / NMB-003(B)

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INTRODUCTION

Specifications, descriptions, and illustrative material in this literature are as accurate as possible. Specifications are subject to change without notice. Illustrations might include optional equipment and accessories, and might not include all standard equipment. Your equipment might appear slightly different than pictured equipment.



Read and understand all provided literature. Literature contains specifications and information for safety, operation, maintenance, storage, and assembly specific to this product. Scan QR codes for more information.



For additional literature, including safety manuals where applicable, or questions regarding terms used in this manual, visit:

<https://www.echo-usa.com/manuals>

OR



<https://www.shindaiwa-usa.com/manuals>

SERVICING INFORMATION

Parts and Serial Number

Genuine ECHO 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. For future reference write them in the space provided below.

Model No. _____ Serial No. _____

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 www.echo-usa.com. 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, call the ECHO Consumer Product Support Department at 1-800-432-ECHO (3246) from 8:00 a.m. to 5:00 p.m. (Central Standard Time) Monday through Friday. Before calling, please know the model and serial number of your unit.

Product Registration

Register your ECHO equipment online at www.echo-usa.com or by filling out the product registration sheet included in this manual. Registering your product confirms warranty coverage and provides a direct link to ECHO if we find it necessary to contact you.

Additional Literature

In addition to finding information online, information is available from your Authorized ECHO Service Dealer, or by contacting ECHO Incorporated, 400 Oakwood Road, Lake Zurich, IL 60047, 1-800-432-ECHO (3246).

SAFETY

For safe use of your product

Be careful to read this section before using your product.

- The precautions described in this section contain important safety information. Please observe them carefully.
- You must also read the precautions that appear in the body of the manual itself.

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 might lead to minor or moderate personal injury if not avoided.

NOTICE

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.



CIRCLE AND SLASH SYMBOL

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

International Symbols

Symbol	Description	Symbol	Description
	Warning, See Operator's Manual		Hot Surface
	Wear Eye, Ear and Head Protection		Warning, side thrust

Symbol	Description	Symbol	Description
	Wear Hand and Foot Protection		Beware of Fire
	Safety/Alert		Do Not Dispose in Household Trash
		Keep Bystanders and Helpers Away 15 m (50 ft.)	
	DO NOT USE LINE HEADS - Blades Only		DO NOT USE BLADES - Line Heads Only
	Do not expose to rain / water		
IPX4		Protected Against Splashing Water	

Note: Not all symbols will appear on your unit.

Handling the Product

General Safety Warnings and Instructions

This section contains the prescribed general safety warnings and instructions for battery-powered products contained in UL 2595 and for handheld tools, transportable tools and lawn and garden machinery contained in UL 62841-1. Additional important warnings and instructions are provided in subsequent sections of this manual.

Important Safety Instructions

 **WARNING**

Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, serious injury and/or property damage.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work Area Safety

- Keep work area clean and well lit. *Cluttered or dark areas invite accidents.*
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. *Power tools create sparks which may ignite the dust or fumes.*
- Keep children and bystanders away while operating a power tool. *Distractions can cause you to lose control.*

Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. *Unmodified plugs and matching outlets will reduce the risk of electric shock.*
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. *There is an increased risk of electric shock if your body is earthed or grounded.*
- Do not expose power tools to rain or wet conditions. *Water entering a power tool will increase the risk of electric shock.*
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. *Damaged or entangled cords increase the risk of electric shock.*
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. *Use of a cord suitable for outdoor use reduces the risk of electric shock.*

- If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. *Use of a GFCI reduces the risk of electric shock.*

Personal Safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired, ill, or under the influence of drugs, alcohol or medication. *A moment of inattention while operating power tools may result in serious personal injury.*
- Use personal protective equipment. Always wear eye protection. *Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery, picking up or carrying the tool. *Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.*
- Disconnect the battery pack from the appliance before making any adjustments, changing accessories, or storing appliance. *Such preventive safety measures reduce the risk of starting the appliance accidentally.*
- Remove any adjusting key or wrench before turning the power tool on. *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
- Do not overreach. Keep proper footing and balance at all times. *This enables better control of the power tool in unexpected situations.*
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. *Loose clothes, jewelry or long hair can be caught in moving parts.*
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. *Use of dust collection can reduce dust-related hazards.*
- Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. *A careless action can cause severe injury within a fraction of a second.*

Proper Clothing

Wear snug-fitting, durable clothing:

- Pants should have long legs, shirts should have long sleeves.
- DO NOT WEAR SHORTS.

- DO NOT WEAR TIES, SCARVES, JEWELRY, or clothing with loose or hanging items that could become entangled in moving parts or surrounding growth.
- Keep clothing buttoned or zipped, and keep shirt tails tucked in.
- Wear sturdy work shoes with nonskid rubber soles.
- Wear sturdy, no-slip, rubber work gloves to improve your grip on the handles. Gloves also provide protection against cuts and scratches, cold environments, and reduce the transmission of machine vibration to your hands.
- DO NOT WEAR OPEN TOED SHOES.
- DO NOT OPERATE UNIT WITH BARE FEET.

Power Tool Use and Care

- Do not force the power tool. Use the correct power tool for your application. *The correct power tool will do the job better and safer at the rate for which it was designed.*
- Do not use the power tool if the switch does not turn it on and off. *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
- Disconnect the plug from the power source and/or the battery from the power tool before making any adjustments, changing accessories, or storing power tools. *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. *Power tools are dangerous in the hands of untrained users.*
- Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. *Many accidents are caused by poorly maintained power tools.*
- Keep cutting tools sharp and clean. *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
- Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. *Use of the power tool for operations different from those intended could result in a hazardous situation.*
- Keep handles and grasping surfaces dry, clean, and free from oil and grease. *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*

Battery Tool Use and Care

- Recharge batteries only with ECHO eFORCE™ 56V battery series chargers. *A charger that is suitable for one type of battery may create a risk of fire when used with another battery.*
- Use only with ECHO eFORCE™ 56V battery series. *Use of any other battery may create a risk of injury and fire.*
- When battery is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. *Shorting the battery terminals together may cause burns or a fire.*
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. *Liquid ejected from the battery may cause irritation or burns.*
- Do not open or destroy the battery. *Electrolytes contained within the battery are corrosive and may cause damage to eyes or skin if released. It may be toxic if swallowed.*
- Exercise care in handling batteries to avoid shorting the battery with conducting materials such as rings, bracelets, keys, etc. *The battery or conductor may overheat and cause burns if contact with said materials is made.*
- Do not use a battery or tool that is damaged or modified. *Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.*
- Do not expose a battery or tool to fire or excessive temperature. *Exposure to fire or temperature above 130°C (265°F) may cause explosion.*
- Follow all charging instructions and do not charge the battery or tool outside the temperature range specified in the instructions. *Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.*

Service

- Do not modify or attempt to repair the appliance or the battery pack (as applicable) except as indicated in the instructions for use and care.
- Have your power tool serviced by a qualified repair person using only identical replacement parts. *This will ensure that the safety of the power tool is maintained.*
- Never service damaged battery packs. *Service of battery packs should only be performed manufacturer or authorized service providers.*

Environmentally Safe Battery Disposal



Recycle your ECHO eFORCE™ 56V battery **FOR FREE** at Rechargeable Battery Recycling Corporation (RBRC) recycling locations. Call 1-800-822-8837 or visit <https://www.call2recycle.org> for details.

The toxic and corrosive materials below are in the batteries used in this machine: Lithium-Ion, a toxic material.

! WARNING

Discard all toxic materials in a specified manner to prevent contamination of the environment. Before discarding a damaged or worn out Lithium-ion battery, contact your local waste disposal agency, or the local Environmental Protection Agency for information and specific instructions. Take the batteries to a local recycling and/or disposal center, certified for Lithium-ion disposal.

! WARNING

If the battery cracks or breaks, with or without leaks, do not recharge it and do not use. Discard it and replace with a new battery. DO NOT TRY TO REPAIR IT! To prevent injury and risk of fire, explosion, or electric shock, and to avoid damage to the environment:

- Cover the terminals of the battery with heavy-duty adhesive tape.
- DO NOT try to remove or destroy any of the battery components.
- DO NOT try to open the battery.
- If a leak develops, the released electrolytes are corrosive and toxic. DO NOT get the solution in the eyes or on skin, and do not swallow it.

- DO NOT put these batteries in your regular household trash.
- DO NOT incinerate.
- DO NOT put them where they will become part of any waste landfill or municipal solid waste stream.
- Take them to a certified recycling or disposal center.

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate equipment.

NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. The reception can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Read Manuals

- Provide all users of this equipment with literature for instructions on safe operation.

Clear the Work Area

- Always clear the work area of foreign objects such as rocks, broken glass, nails, wire, or string, which can be thrown or become entangled in the cutting attachment, and check for any hidden hazards. Spectators and fellow workers must be warned, and children and animals prevented from coming nearer than 50 ft. (15 m) while the unit is in use.
- Outside the 50 ft. (15 m) zone, there is still a risk of injury from thrown objects.
- Bystanders should be encouraged to wear eye protection.
- If you are approached, stop the unit and cutting attachment.
- When a bladed unit is used, there is the added risk of injury to bystanders being struck with the moving blade in the event of a blade thrust or other unexpected reaction of the blade.

Keep a Firm Grip

- Always hold throttle handle and support handle with thumbs and fingers tightly 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.
- Keep cutting attachment below waist.
- Keep all body parts away from rotating cutting attachment.

Equipment

WARNING

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

- ◆ Do not attempt to modify this product. Serious injury can result from the use of any modified product.
- ◆ Check unit for loose or missing nuts, bolts, and screws. Tighten or replace as needed.
- ◆ Inspect shield for damage and ensure that shield is properly installed, and 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.
- ◆ Manufacturer recommended flexible non-metallic line is installed in the trimmer head.
- ◆ Assure that power switch, lock off lever switch, operator presence switch, and enable button all work properly.
- ◆ Check that handle and harness (if included) are installed and adjusted for safe, comfortable operation. See Assembly Section for proper adjustment.
- ◆ Assure all ventilation openings are clear of debris.

WARNING

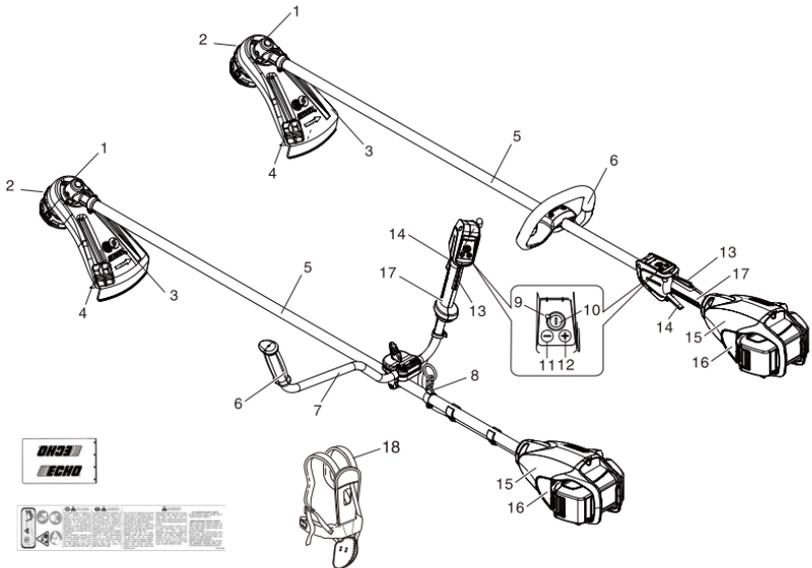
Moving parts can amputate fingers or cause severe injuries. Keep hands, clothing and loose objects away from all openings.

- ◆ ALWAYS stop unit and make sure all moving parts have come to a complete stop before assembling unit, removing obstructions, clearing debris, or servicing unit.
- ◆ DO NOT start or operate unit unless all guards and protective covers are properly assembled to unit.
- ◆ ALWAYS remove battery or unplug unit before adjusting guards or handles.
- ◆ ALWAYS stop machine, remove battery and inspect if unit strikes a hard object, or if excessive vibration is felt.
- ◆ NEVER reach into any opening while the unit is running. Moving parts may not be visible through openings.
- ◆ Position wiring safely to prevent snagging, separation of connectors, or breakage during operation. Gather excess wire, and secure with wiring clamp if provided on equipment
- ◆ Check wiring and connectors for nicks, cuts, exposed wire, or other damage, and repair or replace as needed. Exposed wire or connectors can cause shocks, sparks, and risk of fire or explosion, resulting in serious injury.

- ◆ Check wire terminals for secure connections.

DESCRIPTION

Locate the safety decal(s) on your unit. Make sure the decal(s) is legible and that you understand and follow the instructions on it. If a decal cannot be read, a new one can be ordered from your ECHO dealer. Safety label is for example only. Your label may appear slightly different.



- 1. Gear Case
- 2. Nylon Line Head
- 3. Debris Shield
- 4. Cut-off Knife
- 5. Drive Shaft Assembly
- 6. Support Handle - For Left Hand
- 7. U-Handle Assembly
- 8. Harness Ring

9. Power Indicator LED
10. Power Button
11. - Button
12. + Button
13. Trigger Switch Lockout
14. Trigger Switch
15. Power Head
16. Battery Compartment
17. Throttle Handle - For Right Hand
18. Shoulder Harness

CONTENTS

The ECHO product you purchased has been factory pre-assembled for your convenience. Due to packaging restrictions, some 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.

DSRM-2600:

- 1 Power Head / Drive Shaft Assembly
- 1 Operator's Manual
- 1 Battery*
- 1 Battery Charger*

DSRM-2600U:

- 1 Power Head / Drive Shaft Assembly
- 1 U-Handle Assembly
- 1 U-Handle Bolt
- 1 Shoulder Harness
- 1 Operator's Manual
- 1 Battery*
- 1 Battery Charger*

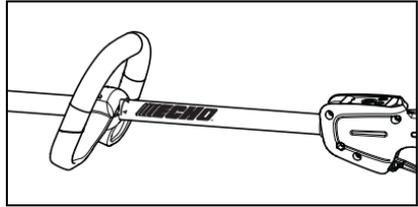
*Not all units include battery and charger.

ASSEMBLY

DSRM-2600:

Note: Label shows minimum spacing for support handle location.

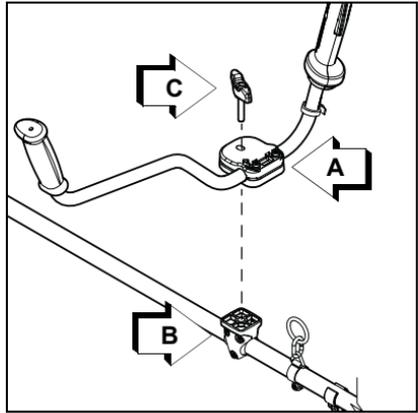
1. If necessary, position support handle for comfortable operation and securely tighten screws.



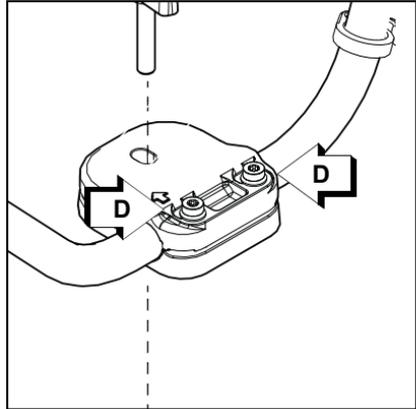
DSRM-2600U:

Parts required: U-Handle assembly, handle bolt

1. Install U-handle clamp (A) to drive shaft clamp (B). Secure with U-handle bolt (C).



2. Loosen upper two (2) U-handle clamp screws (D) and position U-handle assembly for comfortable operation.
3. Tighten U-handle clamp screws.



Blade Installation

! WARNING

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.

! WARNING

Shield with cut-off knife is for use with the nylon line head only. Install shield without cut-off knife when using plastic or metal blades, or serious injury may result.

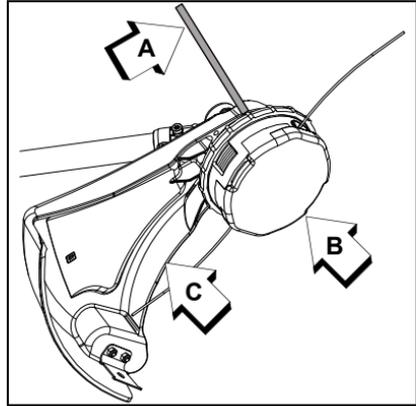
Note: Includes U-handle, and necessary blade conversion parts. Blades must be selected for type of cutting being performed. See “Blade Selection.”

Install Blade Shield

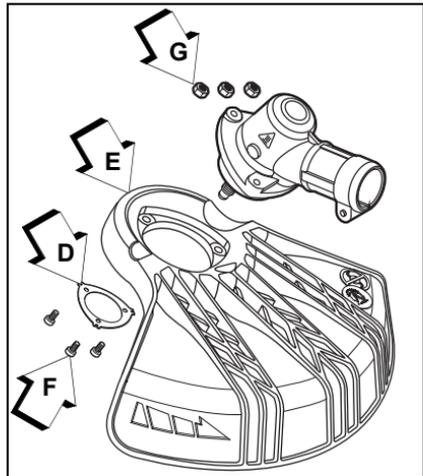
Parts required: Shield without cut-off knife, shield plate, three bolts, three lock nuts

1. If installed remove nylon line head, line head plate, shield plate, and shield with cutoff knife.

- a. Align notch in edge of shield and hole in line head plate with notch in edge of gear housing and insert gear locking tool (A).
- b. Remove line head (B) by turning it clockwise until head is completely off of shaft.
- c. Remove locking tool (A) and line head plate.
- d. Remove three screws holding shield plate and shield with cutoff knife (C) to gear housing.
- e. Retain line head, shield plate, and shield with cut-off knife for conversion back to nylon line head operation.



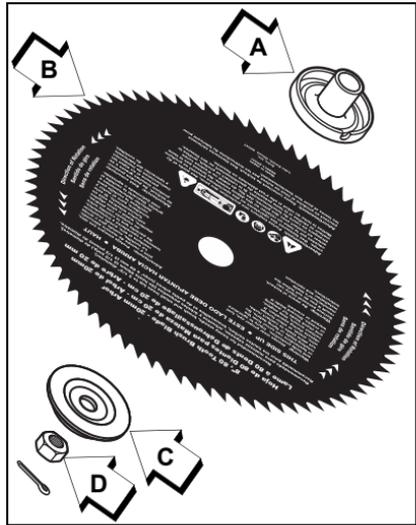
2. Align holes in shield plate (D) with holes in shield (E) and bottom of gear case flange. Install three bolts (F) and three lock nuts (G).
3. Tighten all shield hardware.



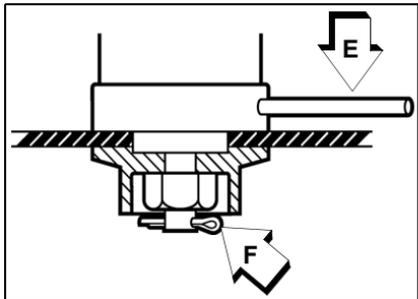
Install Blade

Parts required: Upper plate with pilot, lower plate, 10 mm nut with left-hand threads, 2 x 25 mm cotter pin, blade.

1. Install upper plate with pilot (A) on splined PTO shaft, pilot side out.
2. Install blade (B) on upper plate pilot. Blades must be installed so that rotation arrow on blade matches rotation of unit (see debris shield). Secure blade with lower plate (C), and 10 mm nut (D). Turn nut counterclockwise on PTO shaft to tighten.



3. Align hole in upper plate with notch in gear housing, and insert locking tool (E) to prevent splined shaft from turning. Tighten the 10 mm nut securely.
4. Insert cotter pin (F) in hole in PTO shaft, and bend pin legs around shaft counterclockwise to retain 10 mm nut.



NOTICE

Never reuse a cotter pin. Install a new cotter pin each time a blade is installed or replaced.

5. Remove locking tool (E).

Shield Installation

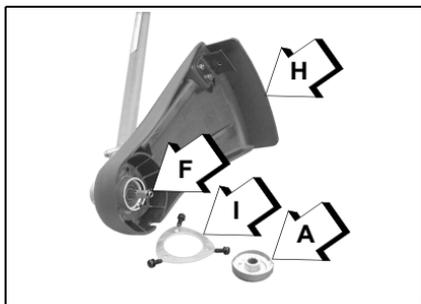
(Nylon line operation)

Parts required: Shield with cutoff knife, Shield Plate, three screws, line head plate.

! WARNING

Shield with cutoff knife is for use with the Nylon Line Head only. Install shield without cutoff knife when using plastic or metal blades, or serious injury may result.

1. Remove blade, blade mounting hardware, and shield without cutoff knife and retain for future use with blade conversions.
2. Align holes in shield (H) shield plate (I) and bottom of the gear case flange. Install three (3) screws.
3. Place line head plate (A) on PTO shaft (F).



Nylon Line Head Installation

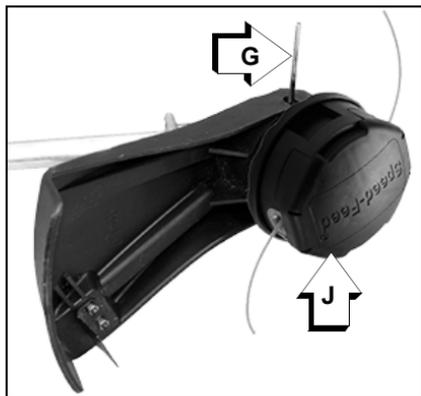
Parts Required: Nylon Line Head.

! CAUTION

Wear Gloves or personal injury may result:

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

1. Align notch in edge of shield and hole in line head plate with notch in edge of gear housing and insert head locking tool (G).
2. Thread line head (J) onto PTO shaft by turning it counterclockwise until head is tight against line head plate.
3. Remove locking tool (G).



NOTICE

Semi-automatic nylon line heads must be used only with debris shield with cut-off knife. Using nylon line heads with debris shield without cutoff knife can result in trimmer damage, caused by operation with excessive line length.

Note: Your nylon line head may appear different than nylon line head shown.

Battery Charging

Note: See separate operator's manuals packaged with battery and charger.

WARNING

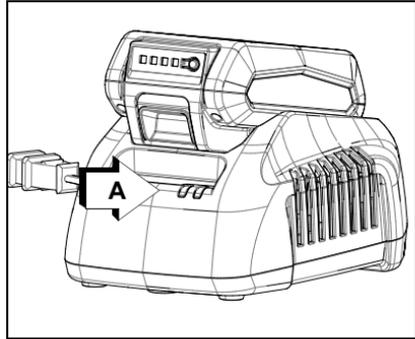
- Use only with ECHO eFORCE™ 56V battery series batteries and chargers.
- Keep charger and battery away from damp conditions and all liquids.
- Do not operate the charger on an easily combustible surface (e.g. paper, textiles) or in an environment with a high risk of fire.
- Do not cover the charger. Covering the charger will prevent it from cooling.
- Do not operate the charger in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Charger can produce sparks which may ignite the dust or fumes - there is a risk of explosion.
- Connect the charger only to the mains of voltage and frequency specified on the rating plate.
- Connect the charger only to an easily accessible wall outlet.
- Never insert objects in the battery's or charger's cooling slots.
- Do not charge or use a defective, damaged or deformed battery and charger.
- Do not open, damage or drop the battery or the charger.

- Fluid may leak from the battery if it is damaged or not used properly; avoid contact with the skin. In the event of accidental contact, wash the affected areas of the skin with plenty of water and soap. If fluid gets in the eyes, do not rub. Rinse the eyes with plenty of water for at least 15 minutes. Also seek medical assistance.
- Never bridge (short circuit) the battery contacts or the charger's terminals with metallic objects.
- Protect from direct sunlight, heat and open flames and never throw battery into fire; there is a risk of explosion.
- In the event of smoke or fire in the charger, disconnect it from the wall outlet immediately.
- If the connecting cord is damaged, immediately disconnect the plug from the power supply to avoid the risk of electric shock.
- Do not expose battery to microwaves or high pressure.
- To reduce the risk of stumbling, position and mark the connecting cord in such a way that it cannot be damaged or endanger others.

NOTICE

The battery comes partially charged from the factory and needs to be fully charged before first use. Charge the battery when it no longer produces sufficient power to operate the unit or when battery lights indicate that the battery is low.

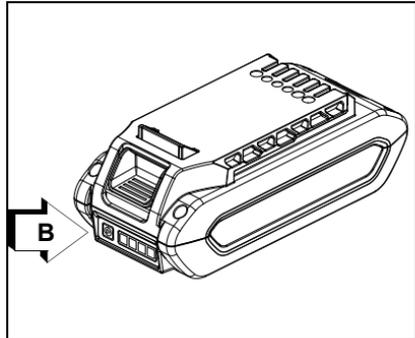
1. Plug charger AC cord in the wall outlet.
2. Align ridges on battery with grooves on charger, and slide battery into charger.
3. During normal charging, the charger LED (A) will blink GREEN.



NOTICE

If charger detects a problem, LED will blink RED. Remove battery from charger, clear obstructions from contacts and reinstall battery into charger. If battery is outside acceptable temperature range (0°C to 60°C, 32°F to 140°F) LED will remain RED.

4. When charging is complete, LED will remain GREEN. See battery manual for charging time.
5. Verify battery is fully charged. Remove battery from charger, press battery charge status button (B), and check LED display.



- One green light indicates that the battery has 1-24% charge.
 - Two green lights indicate that the battery has 25-54% charge.
 - Three green lights indicate that the battery has 55-79% charge.
 - Four green lights indicate that the battery has 80-100% charge.
6. Unplug charger AC cord from the wall outlet.

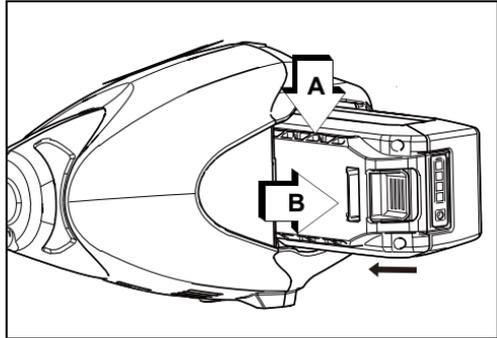
Installing the Battery

! WARNING

The attachment will operate when the battery is installed, the power indicator LED is lit, and the trigger switch and trigger switch lockout are engaged. Make sure the unit is properly positioned to prevent 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.

Note: The battery comes partially charged from the factory and needs to be fully charged before first use.

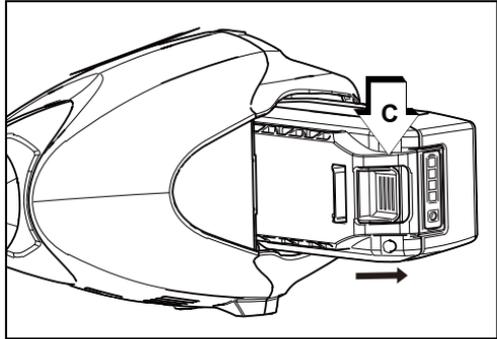
1. Make sure power to unit is turned off.
2. Align ridges (A) on battery with grooves in power head. Slide battery into power head.
3. Assure the battery latch (B) snaps into place and battery is secure before beginning operation.

**NOTICE**

Assure battery latch is fully engaged before using unit.

Removing the Battery

To remove battery, depress battery latch release (C) slide battery out of power head.

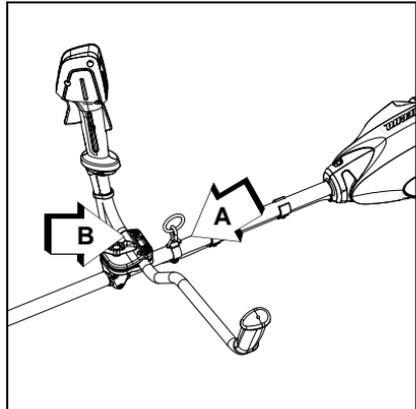


Balance and Adjust Unit - U model

⚠ WARNING

- ◆ Do not wear more than one harness while operating unit.
- ◆ Do not wear any other safety device that can interfere with release or removal of the harness.

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



OPERATION

Operation with Blades

WARNING

Metal blades are very sharp and can cause severe injuries, even if unit is off and blades are not moving. Avoid contact with blades. Wear gloves to protect hands.

WARNING

Blade use demands specific brushcutter configuration. Operation without specified shield, barrier bar or U-handle, and harness can result in serious personal injury. Follow installation instructions.

Pro Maxi-Cut Grass / Weed Blade	Tri-Cut Grass / Weed Blade	Metal Grass / Weed Blade	Metal Brush / Clearing Blades
Support Handle, with or without barrier bar	U-handle or support handle with barrier bar		U-handle*
Shield with cut-off knife	Shield without cut-off knife		
Harness	Harness		
Upper plate/flat washer	Upper / Lower blade plates		
Hex nut	Hex nut		
New cotter pin	New cotter pin		

*ANSI standards require brushcutters be equipped with a barrier bar or restrictive harness. U-handle ensures a higher safety factor.

WARNING

Do Not install blades on GT (Curved Shaft) model trimmers.

- Use only ECHO approved parts. Failure to use the correct parts can cause the blade to fly off. Serious injury to the operator and/or bystanders can occur.

- Arbor diameter of upper blade plate must match arbor diameter of blades.
- For barrier bar or U-handle, follow instructions supplied with either blade conversion kit or U-handle kit, and verify blade is secured properly.
- A new cotter pin is required each time a blade is installed.
- Shoulder harnesses may be used on all trimmers and brushcutters to reduce operator fatigue. Brushcutters over 7.5 kg (16.5 lbs.) and U-handle brushcutters require a double shoulder harness.

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.

Blade Selection

NOTICE

Not all blades are compatible with all trimmers. Visit www.echo-usa.com or www.shindaiwa-usa.com to find compatible blades

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. Never use an edging blade, circular saw blade, or any other type of unapproved blade.

3-Tooth Grass/Weed Blades may be used wherever the nylon line head is used. DO NOT use this blade for heavy weeds or brush.

8-Tooth Weed/Grass Blade is designed for grass, garden debris and thick weeds up to 19 mm (0.75 in.) diameter. DO NOT use this blade for brush or heavy woody growth.

80-Tooth Brush Blade is designed for cutting brush and woody growth up to 13 mm (0.5 in.) diameter.

22-Tooth Clearing Blade is designed for dense thickets and saplings up to 64 mm (2.5 in.) diameter.

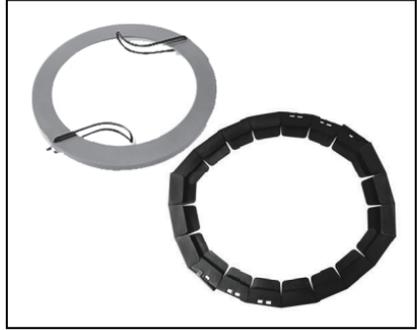
WARNING

A trimmer/brushcutter with a metal blade can cause serious injuries if handled improperly.

Always use extreme care when carrying or handling the equipment to avoid contact with the cutting edges of the blade. Use the optional blade cover when unit is not in use.

Keep blades in protective packaging until ready to install. Store blades safely after removal to prevent injury from accidental contact.

Use blade protectors to protect blade teeth during unit transportation.



Use Shoulder/Waist Harness

Use of the shoulder/waist harness is recommended for all trimmer/brushcutter 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.

Make sure the warning sign on the back of the shoulder harness can be read easily.

Note: In case of emergency, disconnect the trimmer from the harness.

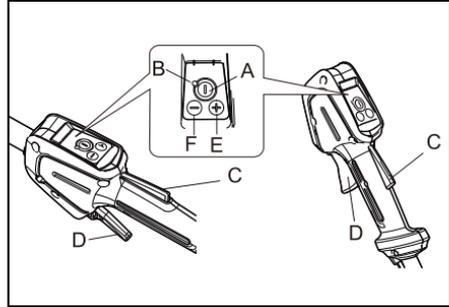


Starting Unit

WARNING

The attachment will operate when the battery is installed, the power indicator LED is lit, and the trigger switch and trigger switch lockout are engaged. Make sure the product is properly positioned to prevent loss of control and possible serious injury.

1. Keep movable parts of the attachment away from objects that could become entangled or thrown, and surfaces that could cause loss of control.
2. Push power button (A) once to turn on power to unit. Power indicator LED (B) illuminates when power to unit is turned on.
3. Hold down trigger switch lockout (C) and depress trigger switch (D) to increase RPM to operating speed.



Note: To increase operating speed, press + (E). To decrease operating speed, press - (F). Press and hold + button for one second to maintain consistent speed. Press + again to cancel.

NOTICE

When power to unit is turned on:

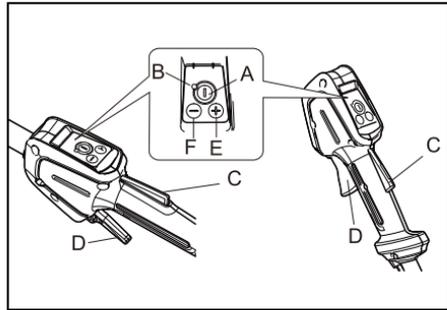
- After 90 seconds of inactivity, unit will power itself off.
- If the LED remains lit, operation is normal.
- If the LED flashes once per second, the battery needs to be charged.
- If the LED flashes four times per second, there is a fault within the product. Turn power off to unit. Remove battery. Clear debris from around line head. Install battery. Turn power on to unit. If flashing continues, have your authorized servicing dealer repair the product.

Stopping Unit

! WARNING

The cutting attachment continues to run for a short period after the unit is switched off.

1. Release trigger switch and trigger switch lockout, and allow trimmer head to stop.
 2. Push power button (A) to turn off power to unit.
- Power indicator LED (B) turns off when power to unit is turned off.



- If the trimmer head does not stop when the trigger and trigger lockout are released, push power button to turn off and remove the battery to stop the power supply to product. Have your authorized servicing dealer repair power button before using product again.

Applications

! WARNING

Always hold throttle handle with right hand and support handle with left hand, placing unit on right side of body.

! WARNING

Do not install blades on GT (Curved Shaft) trimmers.

Operating Techniques - Nylon Line Head

Nylon line heads may be used for trimming, scything, edging, and scalping of grass and light weeds.

NOTICE

Units with Speed Feed[®] line heads ONLY: To advance trimmer line, tap trimmer head against the ground while the head is turning at normal operating speed.

Trimming

Feed the spinning line into the material to be cut. Tilt the line head to one side to direct cutting debris away from you:

- Model SRM/DSRM/PAS/DPAS/SB/TX/C/T (Straight shaft, counter-clockwise line head rotation) - Tilt the cutting head down on the right side while cutting to direct cutting debris away from operator. Feed the line gradually into the material you wish to cut, avoiding contact with fences or other barriers.
- GT models: Tilt cutting head to the left while cutting to direct debris away from the operator.

Scything

Scything - Swing the cutting head in a level arc, gradually feeding the line into the material being cut. Move forward with each arc to cut a swath. Width of cutting swath depends on arc. Use a larger arc for a wider swath, or a smaller arc for a narrow swath. Keep line head tilted to direct cutting debris forward or away from you.

Edging and Scalping

Both of these are done with the nylon line cutting head tilted at a steep angle. Scalping is removing top growth, leaving the earth bare. Edging is trimming the grass back where it has spread over a pavement or driveway. During both edging and scalping, hold the unit at a steep angle in a position where the debris, and any dislodged dirt and stone, will not come back towards you even if it ricochets off the hard surface.

General

- Debris flows in direction of line head rotation. Change line head position to assure debris flow is directed away from operator.
- Keep cutting line away from wire fences to avoid entanglement.
- Operate trimmer only with cutting head below knee height.

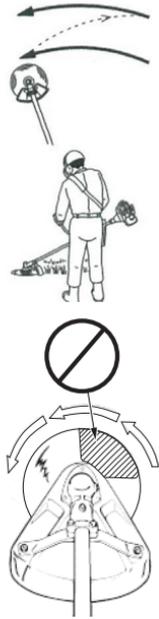
Operating Techniques - Metal or Plastic Blade

Brushcutter blades may be used to cut and trim a wide variety of materials. Refer to the blade selection section for determining the correct blade for the application.

Scything (3, 8, and 80 tooth weed/grass, and brush blades)

- To cut large sections of field grass and weeds swing the cutting head in a level arc, gradually feeding the blade into the material being cut. Adjust throttle speed according to your work.

- Do not swing the main pipe with arms. Turn hips to swing the blade horizontally from right to left, and cut weeds on the left side of the blade.
- Do not scythe back and forth as the grass may scatter and kickback may occur easily.
- Tilt blade left by 5 to 10 degrees so that cut grasses will push left, making progress easier.
- Move forward with each arc to cut a swath.
- Width of cutting swath depends on arc. Use a larger arc for a wider swath, or a smaller arc for a narrow swath. Suggested cutting width is about 1.5 m (4.9 ft).
- When scything large brush up to 12.7 mm (0.5 in.) diameter from right to left, avoid cutting with highlighted section.



Reaction Forces

WARNING

- ◆ The cutting attachment will continue to rotate even after the throttle is released, maintain control of the unit until it has come to a complete stop.
- ◆ Blade thrust may occur when the spinning blade contacts an object that it does not immediately cut. Following proper cutting techniques will prevent blade thrust.
- ◆ Blade thrust can be violent enough to cause the unit and/or operator to be propelled in any direction, and possibly lose control of the unit.
- ◆ Blade thrust can occur without warning if the blade snags, stalls or binds.
- ◆ Blade thrust is more likely to occur in areas where it is difficult to see the material being cut.

Push or Pull - Kickout

During normal use, operating a brushcutter with a circular metal blade can produce sudden strong reaction forces that are difficult to control. Strong reaction forces can cause a loss of balance or loss of control of the equipment, resulting in serious injury to operator and bystanders.

Understanding what causes these reactive forces may help you to avoid them, and can help you to maintain control of the equipment if you experience a sudden reaction during cutting. Reactive forces occur when the force being applied by the cutting teeth of a blade meet resistance, and some of the cutting force is directed back toward the equipment. The greater the cutting force or the amount of resistance, the greater the reactive force.

Push and Pull Forces

Push and pull forces are reactive forces that push the equipment directly toward the operator, or that pull the equipment directly away from the operator. These forces are the result of cutting on the sides of the blade. The direction of the force depends on the side of the blade being used, and the direction of blade rotation at the point of contact. The reactive force is in the opposite direction of blade rotation at the contact point, regardless of where the contact is being made. These types of reactive forces are also called "Blade Thrust."

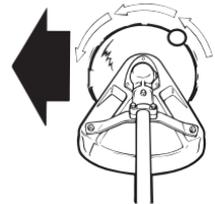


As shown in the illustration, a blade turning counterclockwise will cause the equipment to pull away from the operator if the point of cutting resistance is on the left side of the blade. If the point of cutting resistance is on the right side of the blade, the equipment will push back toward the operator. In both examples, the reactive force is in the opposite direction of blade rotation at the contact point where resistance occurs.



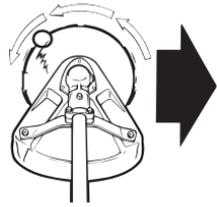
Kickout

Kickout is also a reactive force caused by resistance to cutting, but the direction of blade thrust is lateral (to the left or right of the blade), instead of forward or back toward the operator. In most cases, Push, Pull, and Kickout can be reduced or eliminated by:



- Using the correct blade for the cutting job
- Using properly sharpened blades

- Applying consistent, even force to the blade during the cut
- Avoiding obstacles and ground hazards
- Using extra care when cutting harder materials such as extremely dry brush, saplings, and small trees
- Cutting from a stable, secure position



Blade Cutting Problems

Binding - Blades may bind in the cut if dull or forced. Binding can damage blade, and result in blade breakage or injury from fragments and flying debris. If a blade binds in a cut, don't try to get it out by applying "up and down" force to pry the cut open. Applying prying force to the blade can bend the blade, and result in blade failure and injury.



To free a blade that is bound in the cut, stop the unit, and support the trimmer or brushcutter to keep stress off the blade. Push the tree away from the entry point of the cut to open the cut, and pull the blade directly away from the cut in a straight-line motion. Use caution when releasing the tree to avoid being struck by spring-back or falling.

Inspect the blade for damage before proceeding. Sharpen teeth if dull, or replace blade if cracked, bent, missing teeth, or otherwise damaged.

To prevent binding:

- Keep blades sharp
- Avoid excessive pressure during cuts
- Don't exceed cutting capacity of blade
- Don't use blades with damaged or missing cutting teeth
- Don't rock blades in cut

MAINTENANCE

WARNING

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

WARNING

Operating a poorly maintained unit can result in serious injuries to operator or bystanders. Always follow all maintenance instructions as written, otherwise serious personal injury can result.

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

Skill Levels

Level 1 = Easy to do. Common tools may be required.

Level 2 = Moderate difficulty. Some specialized tools may be required.

Level 3 = See your dealer.

Click [HERE](#) or go to <http://www.echo-usa.com/products/maintenance-kit>

Maintenance Intervals

COMPONENT OR SYSTEM	MAINTENANCE PROCEDURE	Skill Level
Daily Or Before Use		
Battery / Battery Compartment	Inspect / Clean / Charge	1

COMPONENT OR SYSTEM	MAINTENANCE PROCEDURE	Skill Level
Cut Off Knife	Inspect / Clean	1
Screws / Nuts / Bolts	Inspect / Tighten / Replace	1
Drive Shaft	Grease ¹	2
Gear Housing	Grease ²	2

MAINTENANCE PROCEDURE NOTES:

¹ Apply lithium based grease every 25 hours of use.

² Apply lithium based grease every 50 hours of use.

 WARNING

If not maintained properly, the product may pose a serious risk to physical health.

NOTICE

If not maintained properly, the product's performance may deteriorate. Time intervals shown are maximum. Actual use and your experience will determine the frequency of required maintenance. If you continuously use vegetable based chain oil, inspect and do maintenance often. When you find anything wrong, ask your ECHO dealer for repair.

Maintenance and Care

 WARNING

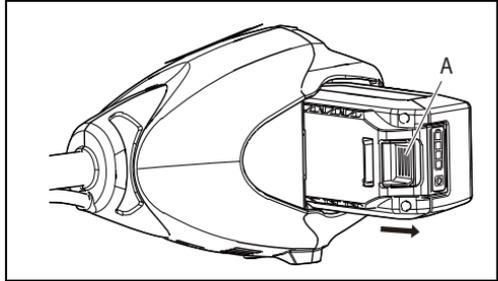
Remove battery before performing maintenance procedures.

Cleaning battery and battery compartment

 WARNING

Risk of electric shock or fire. Do not use conducting materials to clean battery or battery compartment. Otherwise serious personal injury may result.

1. Release trigger switch and trigger switch lockout and allow trimmer head to stop.
2. Make sure power indicator LED is not illuminated.
3. Depress battery latch release (A) and slide battery out of power head.
4. Use compressed air or a soft bristle brush to remove debris from battery and battery compartment.



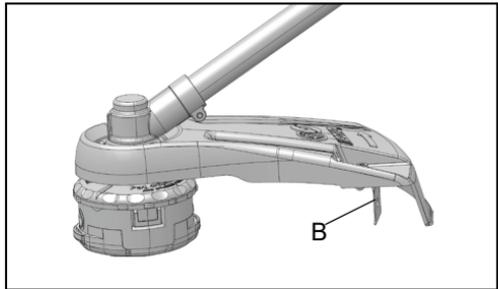
Cut-Off Knife

! CAUTION

Wear gloves or personal injury may result:

- ◆ ***Cut-off knife is sharp.***
- ◆ ***Gearcase and surrounding area may be hot.***

1. Inspect cut-off knife (B) for damage or wear. Assure that it is properly attached to debris shield.



Lubrication

Level 1.

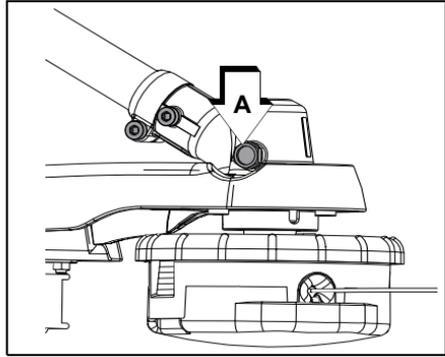
Parts Required: Lithium Based Grease.

Gear Case

NOTICE

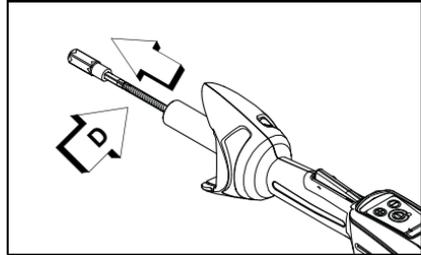
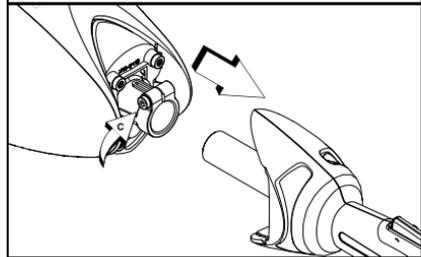
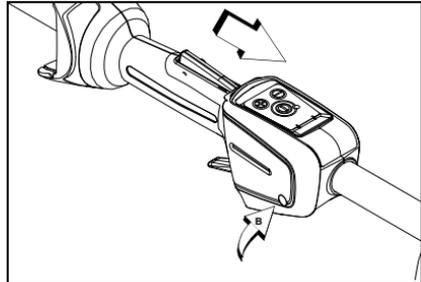
Gear cases without grease plug (A) do not require lubrication.

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



Flex Cable

1. Loosen handle clamping screw (B) and slide throttle handle forward.
2. Loosen clamping screw (C) and slide shaft out of power head.
3. Pull flex cable (D) out of shaft housing, wipe clean and re-coat with 15 ml (0.5 oz.) grease.
4. Slide flex cable (D) back into shaft housing. DO NOT get dirt on flex cable.
5. Reassemble in reverse order.



Nylon Line Replacement

CAUTION

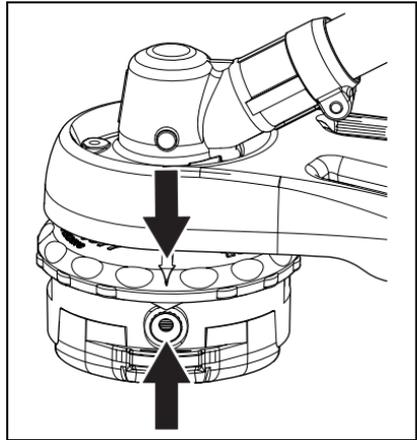
Wear gloves or personal injury may result:

- ◆ *Cut-off knife is sharp.*
- ◆ *Gearcase and surrounding area may be hot.*

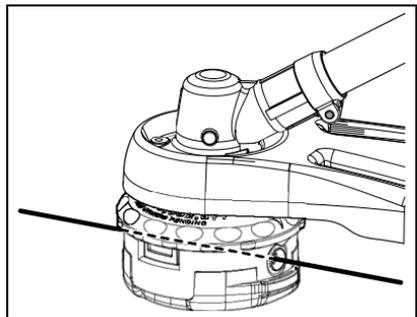
WARNING

Never use wire or wire-rope that can break off and become a dangerous "projectile." Serious injury can occur.

1. Cut one piece of line to recommended length.
2.0 mm (0.080 in.) diameter
6 m (20 ft.).
2.4 mm (0.095 in.) diameter
6 m (20 ft.).
2. Align arrows on top of knob with openings in eyelets.

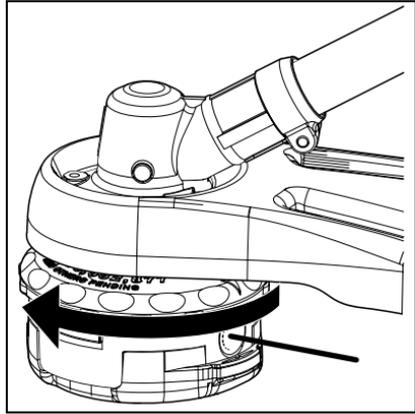


3. Insert one end of trimmer line into an eyelet, and push line equal distance through trimmer head.



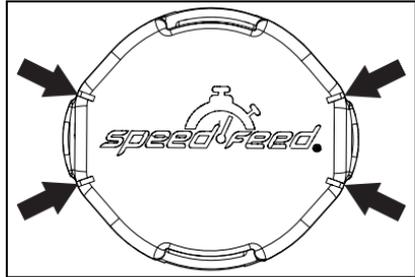
4. Hold trimmer head while turning knob clockwise to wind line onto spool until about 13 cm (5 in.) of each line remains exposed.

Trimmer head is now fully loaded and ready for operation.



NOTICE

When the wear indicators located at the bottom of the Speed-Feed® head are worn smooth, or if holes appear, replacement of the cover or the entire Speed-Feed® head required.



Sharpening Metal Blades

WARNING

Metal blades are very sharp and can cause severe injuries, even if unit is off and blades are not moving. Avoid contact with blades. Wear gloves to protect hands.

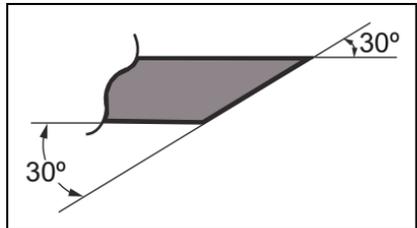
Several styles of metal blades are approved for use on the Brushcutter. The 8-tooth blade can be sharpened during normal maintenance. The clearing blade and 80-tooth blade require professional service.

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



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

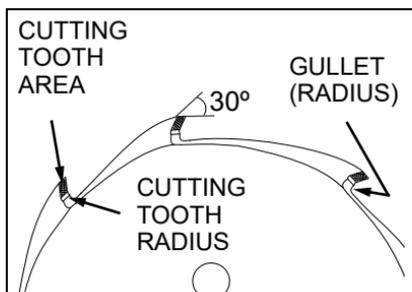
1. File each tooth at a 30° angle a specific number of times, e.g., four strokes per tooth. Work your way around the blade until all teeth are sharp.
2. DO NOT file the 'gullet' (radius) of the tooth with the flat file. The radius must remain. A sharp corner will lead to a crack and blade failure.



NOTICE

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

Trouble	Cause	Solution
Red Charger LED flashes or does not light up	Plug not connected to power outlet	Plug in the charger
	Battery not installed properly	Check the battery installation
	Obstructed connection	Reinstall battery again after remove obstructions from connection
	Fault in the charger	Consult your dealer
	Fault in the battery	Consult your dealer
Unit will not turn on	Battery not installed properly	Check the battery installation
Unit does not run when turned on	Battery discharged	Charge the battery
	Battery outside acceptable temperature range	Remove the battery and allow to cool
Running time is too short	Battery outside acceptable temperature range	Remove the battery and allow to cool
	Unit electronics too hot	Turn unit off and allow to cool
	Battery discharged	Charge the battery

Trouble	Cause	Solution
Line won't feed	Not enough line on the spool	Refill with new line
	Line tangled in the spool	Untangle and refill line
Line fails to cut off	Cut off knife is damaged or missing	Consult your dealer

Checking and maintenance requires specialist knowledge. If you are unable to check and maintain the product or deal with a fault yourself, consult your dealer. Do not attempt to dismantle the product. Consult your dealer in the event of a problem that is not covered in the table above, or other such concerns. For spare parts and consumables, please use only genuine parts and designated products and components. Using parts from other manufacturers or non-designated components may result in a malfunction.

STORAGE

Storage



Do not store in an enclosure where combustible fumes may accumulate. Fire may result.

When storing the product for long periods of time, ensure that the following preparations for storage are carried out.

Unit

Do not store your unit without performing protective storage maintenance which includes the following:

1. Turn power to unit off.
2. Remove battery.
3. Remove accumulation of dirt and debris from exterior of unit.
4. Tighten all screws and nuts.
5. Cover battery compartment, battery and charger.

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

Battery

1. Remove battery.
2. Store in a dry, dust-free place, out of the reach of children.
3. Store in temperatures between -20°C (-4°F) and 60°C (140°F).
4. If battery is stored for longer than six months, charge it to 100% capacity.

Charger

1. Remove battery from charger.
2. Disconnect charger from power supply.
3. Store in a dry, dust-free place, out of the reach of children.

Disposal

Major plastic parts making up the product have codes showing their materials. The codes refer to the following materials; dispose of those plastic parts in accordance with local regulations.



Materials

Mark	Material
>PA6-GF<	Nylon 6 - Glass fiber
>PP-GF<	Polypropylene - Glass fiber
>PE-HD<	Polyethylene
>PP<	Polypropylene

- Battery contains lithium. Dispose of only at a designated collection point.
- Lithium-ion batteries must be disposed of properly.
- Please contact your dealer in case you do not know how to dispose of or recycle waste plastic parts.

WARRANTY

WARRANTY

Limited Warranty Statement for ECHO 56 Volt Handheld Products and Walk Behind Mowers sold in USA and Canada

ECHO Incorporated warrants to the original retail purchaser that this ECHO brand 56 Volt outdoor product is free from defects in material and workmanship and agrees to repair or replace, at ECHO Incorporated's discretion, any defective product free of charge within these time periods from the date of purchase:

- If the product is for homeowner use:
 - Units and Bare Tool – 5 Years
 - Battery or charger – 2 years
- If the product is for commercial use:
 - Units and Bare Tool – 2 years
 - Battery or charger – 2 years
- If the product is for rental use: 90 days for all units, batteries, and chargers.
- Cutting attachments such as, but not limited to, bars, chains, sprockets, blades, tines, belts, PowerBroom™ and nylon trimmer heads for homeowner or non-income producing use will be covered for failures due to defects in material or workmanship for a period of 60 days from original product purchase date and 30 days for commercial / rental use. Any misuse from contact with concrete, rocks, or other structures is not covered by this warranty.

This warranty extends to the original retail purchaser only and commences on the date of the original retail purchase.

Any part of this product found in the reasonable judgment of ECHO Incorporated, to be defective in material or workmanship will be repaired or replaced without charge for parts and labor by an authorized ECHO dealer. Units, repair parts and accessories replaced under this warranty are warranted only for the balance of the original warranty period.

The product, including any defective part, must be returned to an authorized ECHO dealer within the warranty period. The expense of delivering the product to the service center for warranty work and the expense of returning it back to the owner after repair or replacement will be paid by the owner. ECHO Incorporated's, responsibility in respect to claims is limited to making the required repairs or replacements and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any ECHO brand 56 Volt outdoor product. Proof of purchase will be required by the dealer to substantiate any warranty claim. All warranty work must be performed by an authorized ECHO dealer.

This warranty does not cover any units, battery or charger that has been subject to misuse, neglect, negligence, or accident, or that has been operated in any way contrary to the operating instructions as specified in the Operator's Manual. This warranty does not cover normal deterioration due to the use or exposure, and any repairs made necessary by normal wear, improper maintenance, improper lubrication, improper storage, dirt, abrasives, impact, moisture, water, rain, snow, rust, corrosion, varnish, or other similar conditions.

This warranty does not cover damage to chargers or batteries by improper charging voltage and batteries that have been exposed to temperatures beyond those specified in the Operator's Manual, batteries that have not been properly charged or batteries that have reached their useful life.

This warranty does not apply to any damage to the product that is the result of improper maintenance or to any product that has been altered or modified. The warranty does not extend to repairs made necessary by normal wear or by the use of parts or accessories which are either incompatible with the ECHO brand 56 Volt outdoor product or adversely affect its operation, performance, or durability. In addition, this warranty does not cover wear to normal items such as, but not limited to:

Wear items – Bump Knobs, Outer Spools, Cutting Lines, Inner Reels, Felt Washers, Hitch Pins, Mulching Blades, Blower Fans, Blower and Vacuum Tubes, Vacuum Bag and Straps, Guide Bars, Saw Chains, Grass Catch Bag, Hedge Trimmer Blades, and Wheels

ECHO Incorporated, reserves the right to change or improve the design of this product without assuming any obligation to modify any product previously manufactured.

All implied warranties are limited in duration to the stated warranty period. Accordingly, any such implied warranties including merchantability, fitness for a particular purpose, or otherwise, are disclaimed in their entirety after the expiration of the appropriate five-year, two-year, one-year, 90-day, 60-day, or 30-day warranty period. ECHO Incorporated's obligation under this warranty is strictly and exclusively limited to the repair or replacement of defective parts. ECHO Incorporated, does not assume or authorize anyone to assume for them any other obligation. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. ECHO Incorporated, assumes no responsibility for incidental, consequential, or other damages including, but not limited to, expense of returning the product to an authorized dealer for ECHO brand 56 Volt outdoor products and expense of delivering it back to the owner, mechanic's travel time, telephone charges, rental of a like product during the time warranty service is being performed, travel, loss or damage to personal property, loss of revenue, loss of use of the product, loss of time, or inconvenience. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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

This warranty applies to all ECHO brand 56 Volt outdoor products manufactured by or for ECHO Incorporated, and sold in the United States and Canada.

To locate your nearest authorized ECHO dealer, visit www.ECHO-usa.com or dial 1-800-432-ECHO (3246).

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PRODUCT REGISTRATION

Thank you for choosing ECHO Power Equipment

Please go to <http://www.echo-usa.com/Warranty/Register-Your-ECHO> to register your new product on-line. It's **FAST** and **EASY!** NOTE: your information will never be sold or misused by ECHO, Incorporated.

Registering your purchase enables us to contact you in the unlikely event of a service update or product recall, and verifies your ownership for warranty consideration.

If you do not have access to the Internet, you can complete the form below and mail to:

***ECHO Incorporated, Product Registration, PO Box 1139,
Lake Zurich, IL 60047.***

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ECHO INCORPORATED

400 Oakwood Road
Lake Zurich, IL 60047

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