



Power Edger

Operator's Manual

MODEL PE-265

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.

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 operations tips and SAFETY messages.

THE OPERATOR'S MANUAL

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

THE SAFETY MANUAL

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

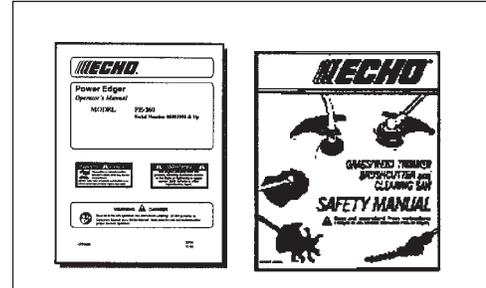


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Specifications, descriptions and illustrative material in this literature are as accurate as known at the time of publication, but are subject to change without notice. Illustrations may include optional equipment and accessories, and may not include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

⚠ 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 form/ shape	Symbol description/ application	Symbol form/ shape	Symbol description/ application
	Read and understand Operator's Manual.		Fuel and oil mixture
	Wear eyes, ears and head protection		Finger Severing
	Hot Surface		Wear hand protection. Use two handed.
	Safety/Alert		DO NOT smoke near fuel.
	Avoid all power lines. This unit is not insulated against electrical current.		DO NOT allow flames or sparks near fuel.
			Keep bystanders away 15 m (50 ft.)

Symbol form/ shape	Symbol description/ application	Symbol form/ shape	Symbol description/ application
	Keep feet away from blade		Direction of blade
	Thrown objects		Emergency stop
	Wear slip resistant foot wear.		Carburetor adjustment - Low speed mixture
	Primer bulb		Ignition ON/OFF
	Carburetor adjustment - High speed mixture		Carburetor adjustment - Idle speed
	Choke Control "Cold Start" Position (Choke Closed)		Choke Control "Run" Position (Choke Open)

PERSONAL CONDITION AND SAFETY EQUIPMENT



WARNING

Edger users risk injury to themselves and others if the edger is used improperly and or safety precautions are not followed. Proper clothing and safety gear must be worn when operating an edger.

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 edger.

Hand Protection

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

Hearing Protection

ECHO recommends wearing hearing protection whenever unit is used.

Proper Clothing

Wear snug fitting, durable clothing;

- Pants should have long legs, shirts with long sleeves.
- DONOT WEAR SHORTS,
- DONOT WEAR TIES, SCARVES, JEWELRY.

Wear sturdy work shoes with non-skid soles;

- DONOT WEAR OPENTOED SHOES,
- DONOT OPERATE UNIT BAREFOOTED.

Hot Humid Weather

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

Vibration and Cold

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

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

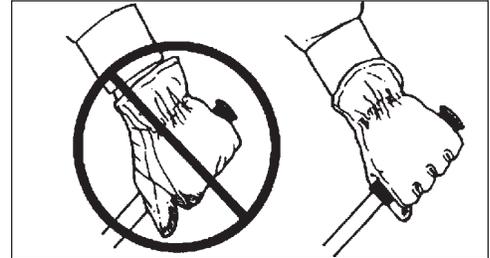


Repetitive Stress Injuries

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

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

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





WARNING
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

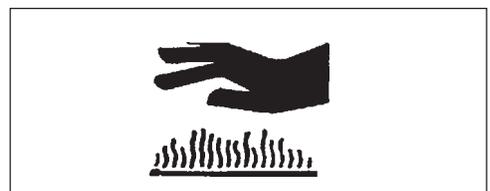
- Hold the front and rear handles with both hands, with thumbs and fingers encircling the handles.

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 that shield is **securely** in place. Replace if shield is damaged or missing.
- Check that the cutting attachment is firmly attached and in safe operating condition.
- Check that front handle is adjusted for safe, comfortable operation. See Assembly 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: 7EHXS.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. 

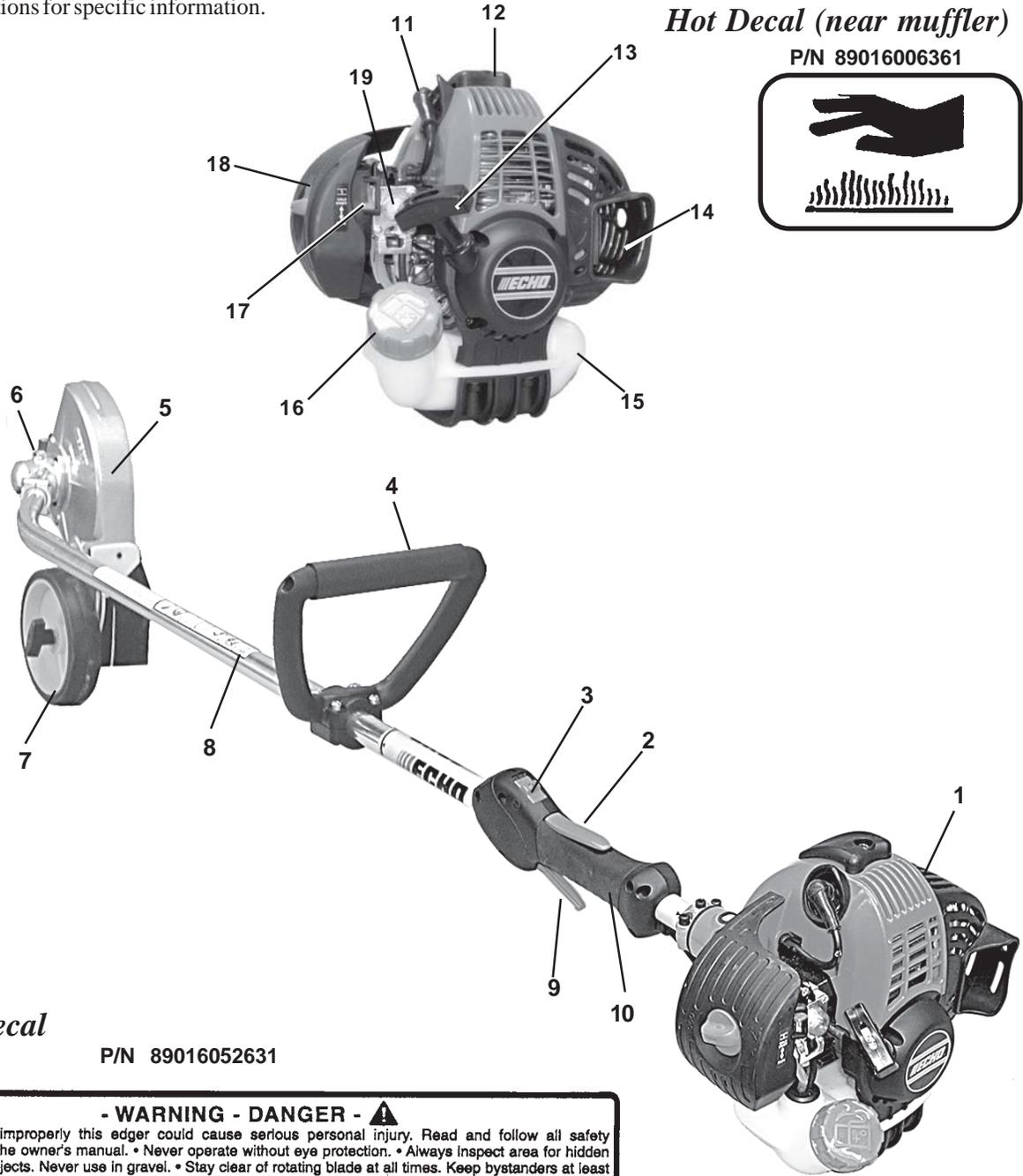
An Emission Control Label is located on the engine. (This is an EXAMPLE ONLY, information on label varies by engine FAMILY).

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.

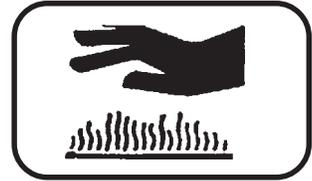
DESCRIPTION

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

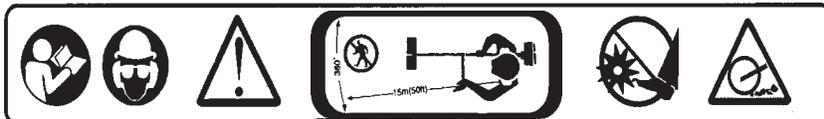
P/N 89016052631

- WARNING - DANGER -

- When used improperly this edger could cause serious personal injury. Read and follow all safety precautions in the owner's manual.
- Never operate without eye protection.
- Always inspect area for hidden or throwable objects. Never use in gravel.
- Stay clear of rotating blade at all times. Keep bystanders at least 50' away.
- Stop engine before adjusting cutting height or performing any service.
- Never operate with unit positioned on left side of body.
- Use only ECHO approved replacement blades on this unit.
- Do not use edger blade on any brush cutter.
- Edger attachment and blade are intended for edging only.
- After replacing or servicing blade, arbors, nut and cotter pins must be assembled properly.

P/N 89016052631

P/N 89016025560



P/N X505001930



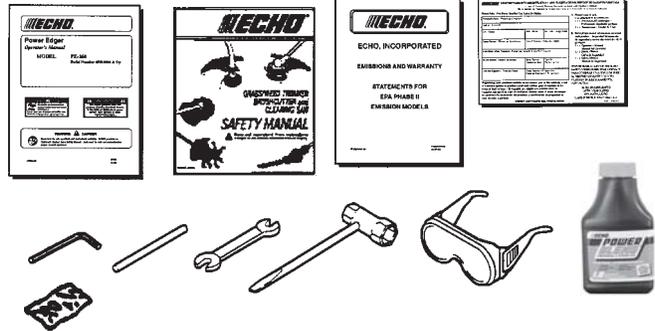
1. **POWER HEAD** - Factory assembled. Includes the engine, clutch, fuel system, ignition system and starter.
2. **THROTTLE TRIGGER LOCKOUT** - This lever must be held during starting. Operation of the throttle trigger is prevented unless throttle trigger lockout lever is engaged.
3. **STOP SWITCH** - "Slide Switch" mounted on top of the throttle Trigger Housing. Move switch FORWARD to RUN, BACK to STOP.
4. **FRONT HANDLE** - The front handle can be repositioned for comfortable operation by loosening the screws and moving the handle.
5. **DEBRIS SHIELD/FLAP** - Mounted over the cutting attachment. Helps protect operator by deflecting debris produced during the edging operation.
6. **BLADE** - Rotates to provide cutting action.
7. **WHEEL** - Adjustable up/down, sets depth of blade.
8. **DRIVE SHAFT ASSEMBLY** - Contains a specially designed liner and the flexible drive shaft.
9. **THROTTLE TRIGGER** - Spring loaded to return to idle when released. When accelerating, press trigger gradually for best operating technique.
10. **GRIP** - Rear (right hand) handle.
11. **SPARK PLUG** - Provides spark to ignite fuel mixture.
12. **TOP GUARD** - Protects arm from the hot engine.
13. **RECOIL STARTER HANDLE** - Pull recoil handle slowly until starter engages, then quickly and firmly. 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** - Cover and seals fuel tank.
17. **CHOKE** - The choke control is located on the air filter case. Move lever to "COLD START" () to close choke for cold starting. Move lever to "RUN" () position to open choke.
18. **AIR CLEANER ASSEMBLY** - Contains replaceable felt 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 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.

- __ 1, Power Head
- __ 1, Drive Shaft Assembly
- __ 1, Plastic Bag (Co-Pack)
- __ 1, Operator's Manual
- __ 1, Safety Manual
- __ 1, Warranty Registration Card
- __ 1, ECHO Emissions and Warranty Statement
- __ 1, Echo Power Blend X™ 2-stroke oil sample
- __ 1, Front Handle
- __ 1, Lower Bracket, Front Handle
- __ 4, 5 x 35 mm screws
- __ 4, 5 mm nuts*
- __ 1, T-Wrench
- __ 2, Split pin
- __ 1, 4 mm Hexagon Wrench
- __ 1, Locking Tool
- __ 1, 8 x 10 mm Spanner Wrench
- __ 1, Safety Glasses



* 5mm nuts may not be needed.

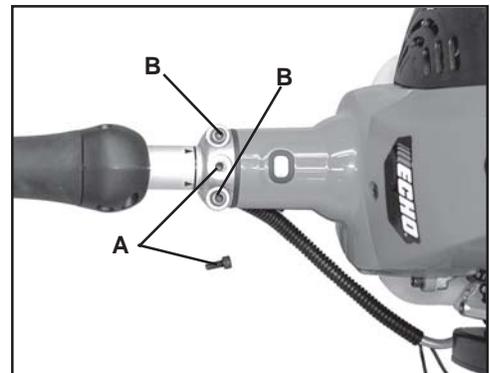
ASSEMBLY

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

Parts Required: Power head, Drive Shaft Assembly

DRIVE SHAFT/POWER HEAD

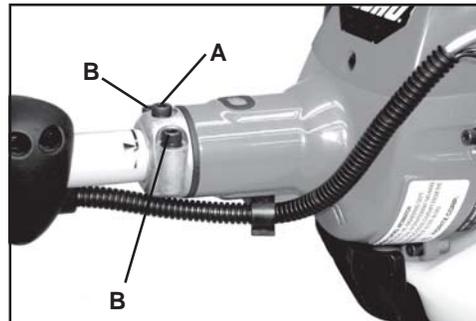
1. Stand power head upright on a level surface.
2. Loosen the two (2) drive shaft clamp bolts (B) at engine drive shaft clamp, and remove center drive shaft location bolt (A).
3. Remove dust cap and carefully fit drive shaft assembly to engine making sure that inner drive shaft engages into clutch mount.
4. Turn drive shaft housing until locating hole lines up with location hole in clamp and install center drive shaft location bolt (A).



NOTE

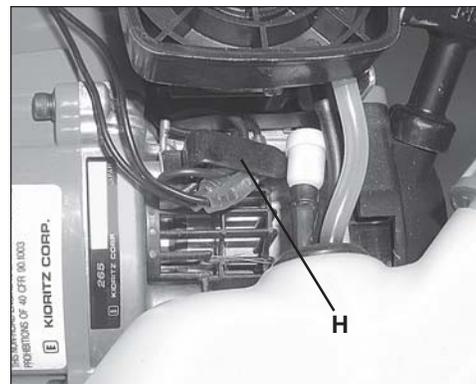
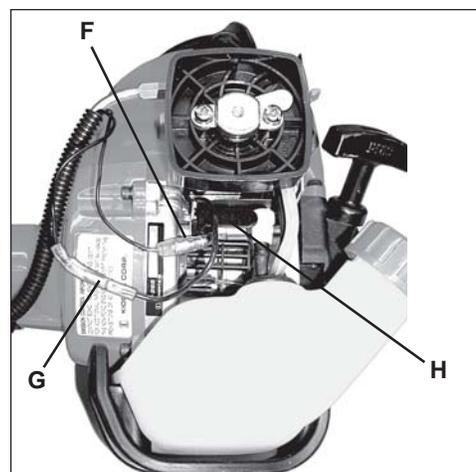
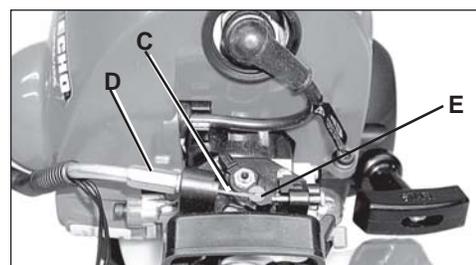
Gear Housing must be aligned properly with engine. Aligning center locating hole in driveshaft housing with center drive shaft bolt (A) provides correct alignment.

5. Tighten two (2) drive shaft clamp bolts (B) securely.
6. Route throttle linkage and ignition lead assembly along shaft and clip as shown.



THROTTLE LINKAGE AND IGNITION LEADS

1. Close choke and remove air filter cover.
2. Place throttle linkage (C) through adjustment fixture (D) and install wire end into large carburetor throttle swivel hole (E). Check throttle for freedom of movement and that wide open throttle / low idle extremes are adjusted properly. The throttle linkage must be adjusted by moving the adjustment fixture (D). Consult with your Echo Dealer for correct adjustment procedure.
3. Connect 2 ignition stop leads (F, G) from throttle cable tubing to 2 ignition leads (F, G) on engine.
4. Secure ignition leads against engine housing with clip (H).
5. Install air filter and cover.



FRONT HANDLE

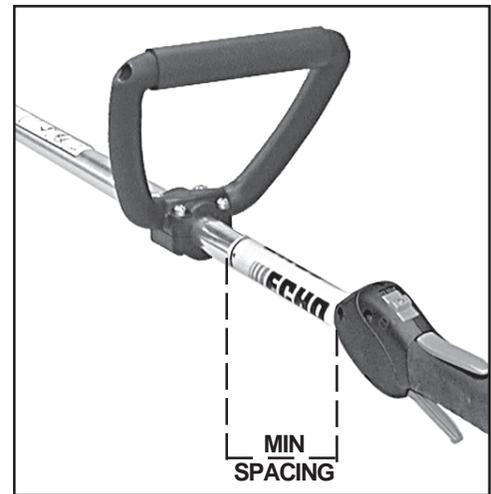
Tools Required: Cross-Head Screwdriver

Parts Required: Front Handle, Lower Bracket, 4 - 5 x 35 mm screws

NOTE

Label shows minimum spacing for front handle location.

1. Assemble front handle and bracket loosely to drive shaft.
2. Position front handle in comfortable operating position and tighten 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.

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

FUEL

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 J.A.S.O. 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 J.A.S.O. 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

**WARNING**

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.

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

IMPORTANT

Spilled fuel is a leading cause of hydrocarbon emissions. Some states may require the use of automatic fuel shut-off containers to reduce fuel spillage.

After use

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

Storage - Fuel storage laws vary by locality. Contact your local government for the laws affecting your area. As a precaution, store fuel in an approved, airtight container. Store in a well-ventilated, unoccupied building, away from sparks and flames.

IMPORTANT

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

IMPORTANT

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

STARTING COLD ENGINE



WARNING

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.

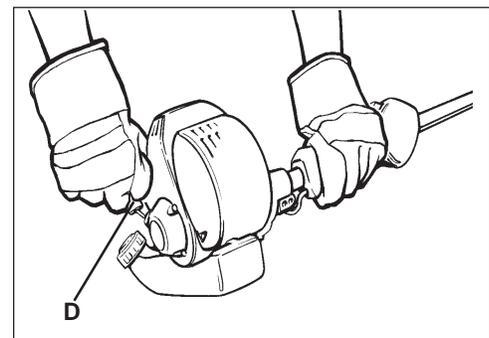
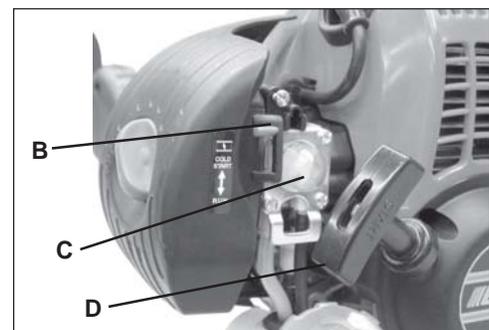
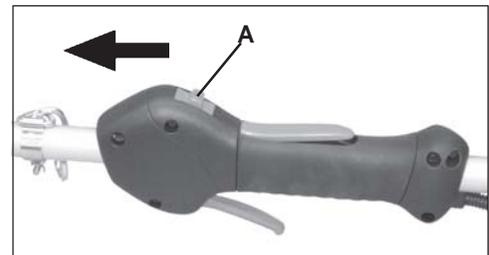
1. *Stop Switch*
Move stop switch (A) away from the STOP position.

2. *Choke*
Move choke (B) to “Cold Start” (⏏) Position.

3. *Purge Bulb*
Pump purge bulb (C) until fuel will be 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 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 five (5) pulls, move choke lever back to “Run” (⏏) position. Hold throttle trigger fully depressed and pull 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. 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 depress throttle trigger to wide open position.



WARNING

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

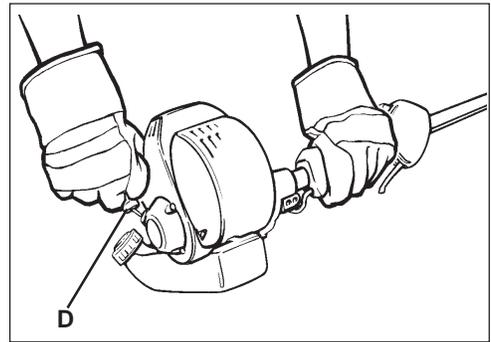
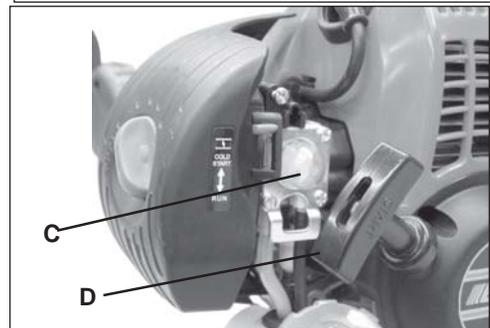
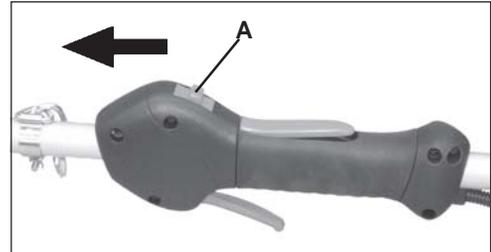
NOTE

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

1. *Stop Switch*
Move stop switch (A) away from the STOP position
2. *Purge Bulb*
Pump purge bulb (C) until fuel will be visible and flows freely in the clear fuel tank return line. Pump bulb an additional 4 or 5 times.
3. *Recoil Starter*
Lay the unit on a flat area and keep movable attachment parts clear of all obstacles. Rapidly pull recoil starter handle/rope (D) until engine fires.

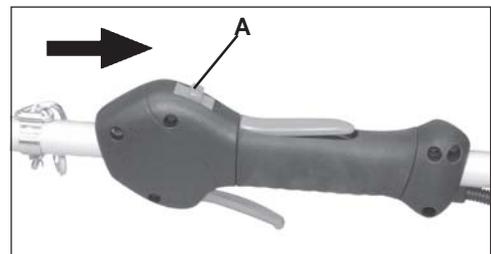
NOTE

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



STOPPING ENGINE

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

OPERATING TECHNIQUES

1. Before edging, water the area to soften the ground to make edging easier.
2. Before edging, check the area and remove all obstacles and objects that could be thrown.
3. Plan to edge regularly to make it easier to keep a neat edge and to avoid having to make more than one pass.

NOTE

Blade depth may have to be adjusted due to differences in height between the hard surface and the top of the grass.



WARNING

Never adjust blade height with engine running, otherwise serious personal injury may result.

4. Loosen adjustment knob and adjust the blade's depth of cut to produce a fine cut between sidewalk and grass using a minimum blade depth, usually with about 13 mm (1/2 in.) of the blade into the ground. Tighten adjustment knob.
5. Before edging, plan your direction of travel so that the unit will always be positioned on your right side and so that you walk on a hard surface whenever possible.
6. Hold edger as shown.



WARNING

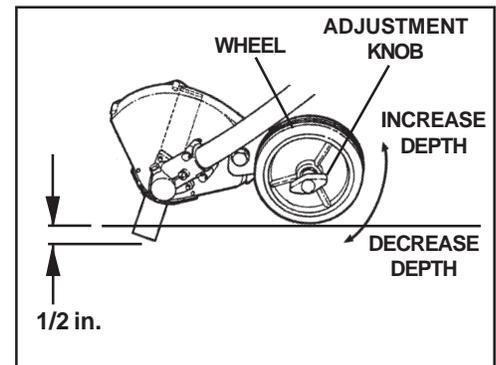
Before edging, be sure to read and understand the entire Operator's Manual to avoid the chance of serious injury.

7. When starting to edge, run the engine at full throttle, and lower the blade gently into the ground, being careful not to hit the concrete with the blade.
8. Don't force the blade. Move as quickly as the blade will allow.



WARNING

The complete unit, specifically the drive shaft assembly and muffler exhaust area may become very hot during use. Avoid contact during and immediately after operation, otherwise serious personal injury may result.



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 edger is designed to provide many hours of trouble free service. Regular scheduled maintenance will help your edger 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 LEVEL

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

ECHO offers **REPOWER™** Maintenance Kits and Parts to make your maintenance job easier.

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		R *
Fuel System, leaks	Inspect/Replace	1	I (3)	I / R (3) *			
Cooling System	Inspect/Clean	2	I / C				
Muffler Spark Arrestor	Inspect/Replace	2	I / C		I / R*		
Drive Shaft	Grease	2			I (1)		
Gear Housing	Grease	2			I (2)		
Recoil Starter Rope	Inspect/Clean	1	I / C *				I / R*
Spark Plug	Inspect/Clean	2			I / C	R *	
Blade Replacement	Inspect/Replace	1	I	I	I / 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 15-25 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..

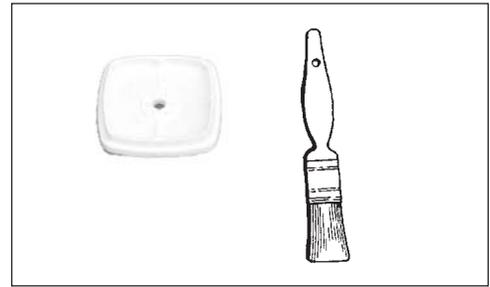
AIR FILTER

Level 1.

Tools required: 25 or 50 mm (1 or 2 in.) Cleaning brush

Parts required: Air Filter

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: Fuel Filter



WARNING

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

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



SPARK PLUG

Level 2.

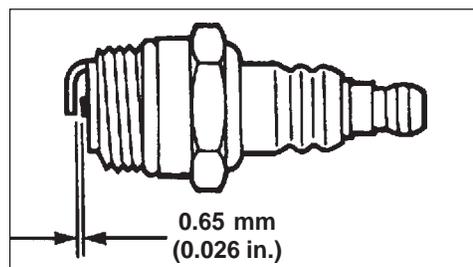
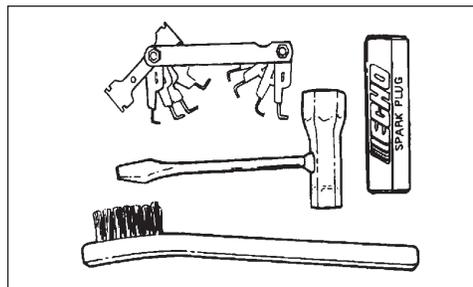
Tools Required: T-Wrench, feeler gauge, soft metal brush

Parts Required: Spark Plug NGK BPM-8Y

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

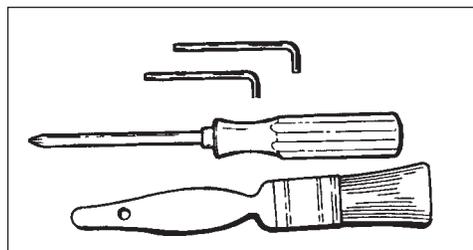
To maintain proper engine operating temperatures, cooling air must pass freely through the cylinder fin area. This flow of air carries combustion heat away from the engine.

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.

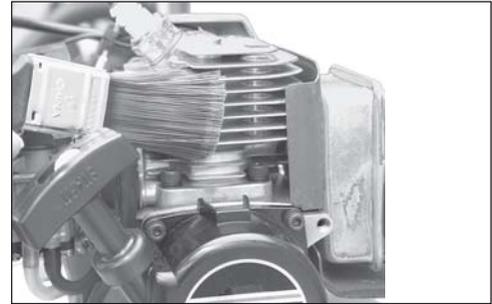
1. Remove spark plug lead.
2. Remove air cleaner cover.
3. Remove muffler cover screw and muffler cover (A).
4. Remove 2 engine cover screws and engine cover (B).



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

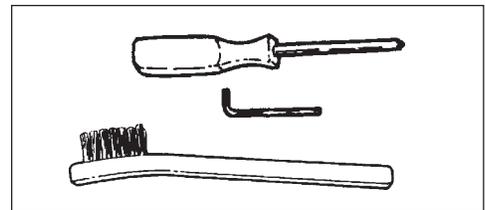
Spark Arrestor Screen

Level 2.

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

Parts Required: Spark Arrestor Screen, Gasket

1. Remove two (2) muffler cover screws and muffler cover (A).
2. Place piston at Top Dead Center (TDC) to prevent carbon/dirt from entering cylinder.
3. Remove spark arrestor screen (B), gasket (C) and exhaust guide (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 duration of two tanks of fuel break-in before carburetor adjustments can be made. During the break-in period your engine performance will increase and exhaust emissions will stabilize. Idle speed can be adjusted as required.

High Altitude 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 2.

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

Parts required: None

NOTE

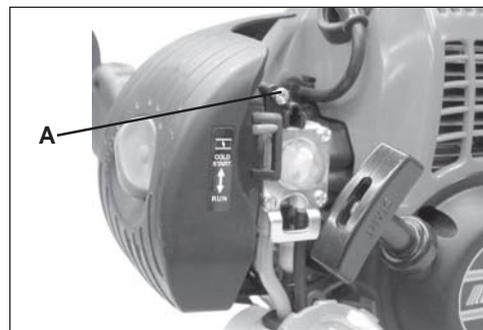
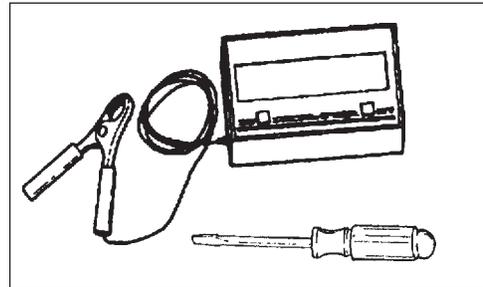
Every unit is run at the factory and the carburetor is set in compliance with emission regulations. This carburetor does not have acceleration and high speed adjustment needles.

1. Check idle speed and reset if necessary. If a tachometer is available, idle speed screw (A) should be set to the specifications found on page 25 "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 turn at idle, otherwise serious personal injury may result.



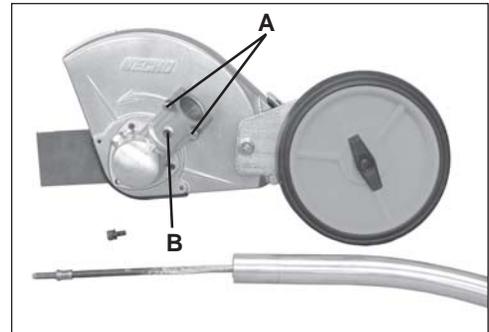
DRIVE SHAFT LUBRICATION

Level 1.

Tools required: 8 mm Open End Wrench, 4 mm Hex Wrench,
Clean rag

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

1. Loosen two (2) screws (A) and remove center locating screw (B).
Pull gear box and shield from drive shaft housing.
2. Pull flexible cable from the drive shaft housing, wipe clean and
recoat with a thin coating [15 ml (1/2 oz.)] of 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.



BLADE REPLACEMENT/LUBRICATION

Level 1.

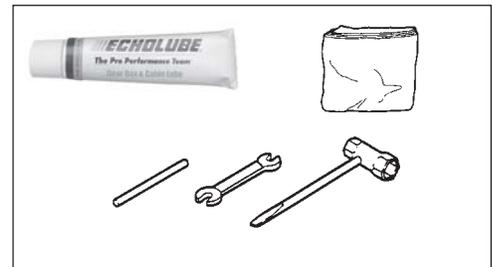
Tools Required: T-wrench, Locking Tool, Needle Nose Pliers,
13 mm Open End Wrench

Parts Required: ECHO[®] LUBE™ 8 oz. (P/N91014) or Lithium Base
Grease, Blade P/N 69601552632, split pin P/N
90030020022

NOTE

Grease gear case every 15 - 25 hours of use. Replace blade when it
is worn shorter than 6 inches. Remove blade and adapters before
greasing to prevent damage to gear and bearings.

1. Shut engine off. Disconnect spark plug lead from spark plug.



2. Remove split pin (A).

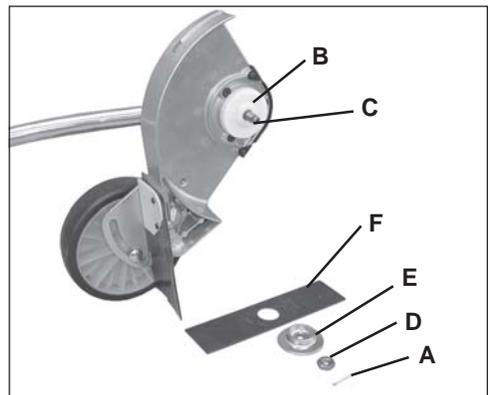


3. Rotate blade until holes in inner blade adapter (B) and gear box align. Insert locking tool to lock PTO shaft (C).

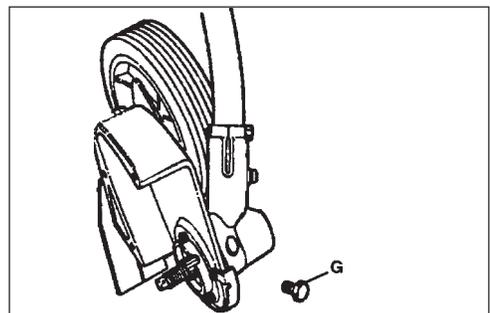
NOTE

Blade nut (D) is left hand thread.

4. Remove blade nut (D) in a clockwise direction using T-wrench. Remove outer blade adapter (E), blade (F) and inner blade adapter (B).



5. Clean all loose debris from gear box.
6. Remove plug (G) and check level of grease. Grease should fill gear case to bottom of grease plug hole.
7. Add grease if necessary using manual grease gun or squeeze-type tube. Do not use high pressure grease gun. DO NOT over-fill.
8. Install inner blade adapter (B) onto PTO shaft (C).
9. Install and center new blade (F) onto inner adapter (B).
10. Install outer adapter (E) and nut (D). Tighten nut (D) firmly, counterclockwise (CCW).



IMPORTANT

Never reuse old split pin.

11. Install new split pin (A) to secure nut.



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



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.

Long Term Storage (over 30 days)

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

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



DANGER

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

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

SPECIFICATIONS

MODEL	PE-265
Length	1760mm (69.3 in.)
Width	245 mm (9.65 in.)
Height	315 mm (12.4 in.)
Weight (dry w/cutter head)	6.2 kg (13.7 lb.)
Engine Type	Air cooled, two-stroke, single cylinder gasoline engine
Bore	34.0mm (1.34 in.)
Stroke	28.0mm (1.10 in.)
Displacement	25.4 cc (1.55 cu. in.)
Exhaust	Spark Arrestor Muffler / with catalyst
Carburetor	Zama w/purge bulb
Ignition System	CDI (capacitor discharge ignition)
Spark Plug	NGK BPM-8Y 0.65mm (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	0.5 lit. (16.9 US fl. oz.)
Recoil Starter System	Automatic Recoil Starter
Clutch	Centrifugal Type
Drive Shaft	6.35 mm (1/4 in.) flexible shaft
Gear Ratio	2.07:1
Rotation Direction	Clockwise viewed from right side
Shield	Open anti-clog
Standard Cutter Head	Metal blade
Blade Length	203.2 mm (8.0 in.)
Blade Width	50.8 mm (2 in.)
Blade Thickness	Standard 2.3 mm (0.090 in.), Premium 4.6 mm (0.181 in.)
Handle	Front Cushioned D-loop, Rear - Grip
Vibration Reduction	Rubber Cushion
Idle Speed (RPM)	2,600-3,200
Clutch Engagement Speed (RPM)	3,600-4,200
Wide Open Throttle Speed (RPM)	10,400-11,400

NOTES

NOTES

SERVICING INFORMATION

PARTS/SERIAL NUMBER

Genuine ECHO Parts and ECHO REPOWER™ Parts and Assemblies for your ECHO products are available only from an Authorized ECHO Dealer. When you do need to buy parts **always** have the Model Number, 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.

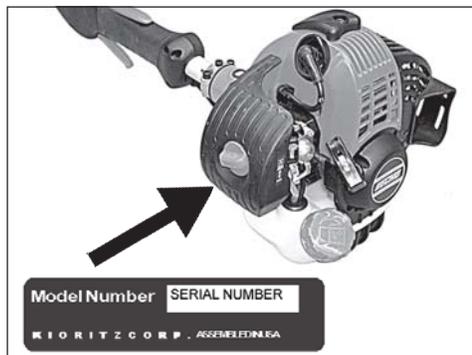
ADDITIONAL OR REPLACEMENT MANUALS

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 will be required for each video.



DEALER?

Call

1-800-432-ECHO

1-800-432-3246

or

www.echo-usa.com

CONSUMER PRODUCT SUPPORT

1-800-673-1558

8:30 - 4:30 Mon - Fri C.S.T.



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