

Power Edger

Operator's Manual

MODEL

PE-260

Serial Number 05005801 - 05999999

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.



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.

WARNING A DANGER

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X753000931 04/03

INTRODUCTION

Welcome to the ECHO family. This ECHO product was designed and manufactured to provide long life and on-the-jobdependability. 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.

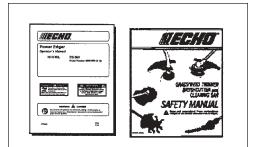


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Specifications, descriptions and illustrative material in this literature are as accurate as known at the time of publication, but are subject to change without notice. Illustrations may include optional equipment and accessories, and may not include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

MANUAL SAFETY SYMBOLS AND IMPORTANT INFORMATION

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



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



IMPORTANT

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

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

NOTE

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

SAFETY DECALS

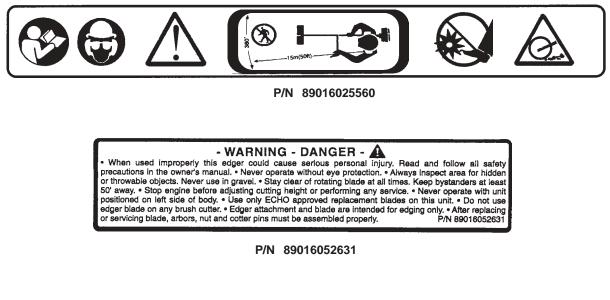
Locate these safety decals on your unit. The complete unit illustration found in the "DESCRIPTION" section, will help you locate them. Make sure the decals are legible and that you understand and follow the instructions on them. If a decal cannot be read, a new one can be ordered from your ECHO Dealer.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

These decals are in English only:



P/N 89016006361

Shaft Decals





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.
\triangle	Safety/Alert		DO NOT smoke near fuel.
4	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	STOP	Emergencystop
<u> </u>	Wear slip resistant foot wear.		Carburetor adjustment - Low speed mixture
	Primer bulb	Ignition	Ignition ON/OFF
Η	Carburetor adjustment - High speed mixture	Τ	Carburetor adjustment - Idle speed
•	Choke Control "Cold Start" Position (Choke Closed)	+	Choke Control "Run" Position (Choke Open)

SAFETY INSTRUCTIONS

PERSONAL CONDITION AND SAFETY EQUIPMENT



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.
- DONOTWEAR SHORTS,
- DONOTWEARTIES, SCARVES, JEWELRY.

Wear sturdy work shoes with non-skid soles;

- DONOTWEAR OPEN TOED SHOES,
- DONOTOPERATE UNIT BAREFOOTED.

EXTENDED OPERATION/EXTREME CONDITIONS

Vibration and Cold

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

- Keep your body warm, especially the head, neck, feet, ankles, hands, and wrists.
- Maintain good blood circulation by performing vigorous armexercises 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.



EQUIPMENT



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





SAFE OPERATION

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

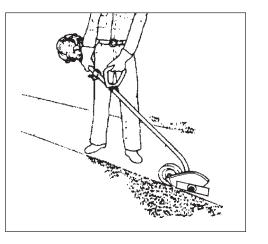
• Spectators and fellow workers must be warned, and children and animals prevented from coming nearer than 15 m (50 ft.) while the unit is in use.

Keep a Firm Grip

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



EMISSION CONTROL

EPA Phase 2

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



<u>An Emission Control Label</u> 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.

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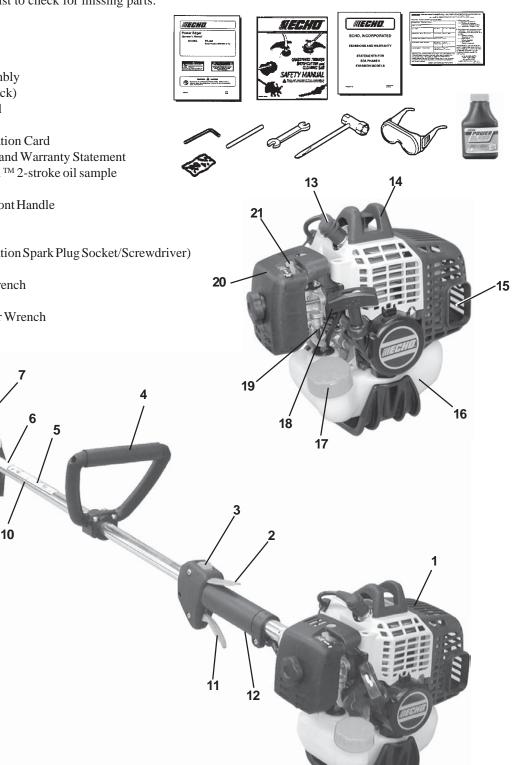
DESCRIPTION

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.

CONTENTS

- ____1, Edger Assembly
- ____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 TM 2-stroke oil sample
- ____1, Front Handle
- ____1, Lower Bracket, Front Handle
- _____4,5X35 mm screws
- _____ 4, 5 mm nuts
- _____1, Scrench (Combination Spark Plug Socket/Screwdriver)
- ____ 2, split pin
- ____1,4 mm Hexagon Wrench
- _____1,Locking Tool
- ____1,8 x 10 mm Spanner Wrench
- ___ Safety Glasses



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- 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. **SHAFT DECAL** (See page 3)
- 6. **SHAFT DECAL** (See page 3)
- 7. **DEBRIS SHIELD/FLAP** Mounted over the cutting attachment. Helps protect operator by deflecting debris produced during the edging operation.
- 8. BLADE Rotates to provide cutting action.
- 9. WHEEL Adjustable up/down, sets depth of blade.
- 10. DRIVE SHAFT ASSEMBLY Contains a specially designed liner and the flexible drive shaft.
- 11. **THROTTLE TRIGGER -** Spring loaded to return to idle when released. When accelerating, press trigger gradually for best operating technique.
- 12. **GRIP** Rear (right hand) handle.
- 13. SPARK PLUG Provides spark to ignite fuel mixture.
- 14. TOP GUARD Protects arm from the hot engine.
- 15. **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.
- 16. FUEL TANK Contains fuel and fuel filter.
- 17. FUEL TANK CAP Cover and seals fuel tank.
- 18. **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.
- 19. **PRIMER BULB** Pumping primer bulb before starting engine draws fresh fuel from the fuel tank priming the carburetor for starting. Pump primer bulb until fuel is visible and flows freely in the clear fuel tank return line. Pump bulb an additional 4 or 5 times.
- 20. AIR CLEANER ASSEMBLY Contains replaceable felt element.
- 21. 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.

SPECIFICATIONS

Length 1755 mm(69.1 in.) Width 315 mm(12.4 in.) Height 285 mm(12.4 in.) Weight (dry w/cutter head) 6.35 kg (14.0 lb.) Engine Type Air cooled, two-stroke, single cylinder gasoline engine Bore 34.0 mm (1.34 in.) Stroke 28.0 mm (1.10 in.) Displacement 25.4 cc (1.55 cu. in.) Exhaust Spark Arrestor Muffler Carburetor Walbro model WYK diaphragm w/purge bulb Ignition System CDI (capacitor discharge ignition) Spark Plug NGK BPM-8Y 0.65 mm (0.026 in.) Fuel Mixed (Gasoline and Two-stroke air cooled engine oil Gasoline 89 Octane unleaded. DO NOT use fuel containing methyl alcohol, more than 10% ethyl alcohol or 15% MTBE. Oil 50:1 ECHO High Performance, two-stroke air cooled engine oil Fuel Tank Capacity 0.58 lit. (19.6 US fl. oz.) Recoil Starter System Automatic Recoil Starter Clutch Clockwise viewed from right side Shied Open anti-clog Standard Cutter Head Metal blade Blade Length 203.2 mm (8.0i.n) Blade Length 203.2 mm (8.0i.n) Blad	MODEL	PE-260
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Recoil Starter System	Oil	50:1 ECHO High Performance, two-stroke air cooled engine oil
ClutchCentrifugal TypeDrive Shaft6.35 mm (1/4 in.) flexible shaftGear Ratio2.07:1Rotation DirectionClockwise viewed from right sideShieldOpen anti-clogStandard Cutter HeadMetal bladeBlade Length203.2 mm (8.0 in.)Blade Width50.8 mm (2 in.)Blade ThicknessStandard 2.3 mm (0.090 in.), Premium 4.6 mm (0.181 in.)HandleFront Cushioned D-loop, Rear - GripVibration Reduction2,400-3,200	Fuel Tank Capacity	0.58 lit. (19.6 US fl. oz.)
Drive Shaft6.35 mm (1/4 in.) flexible shaftGear Ratio2.07:1Rotation DirectionClockwise viewed from right sideShieldOpen anti-clogStandard Cutter HeadMetal bladeBlade Length203.2 mm (8.0 in.)Blade Width	Recoil Starter System	Automatic Recoil Starter
Gear Ratio2.07:1Rotation DirectionClockwise viewed from right sideShieldOpen anti-clogStandard Cutter HeadMetal bladeBlade Length203.2 mm (8.0 in.)Blade Width50.8 mm (2 in.)Blade ThicknessStandard 2.3 mm (0.090 in.), Premium 4.6 mm (0.181 in.)HandleFront Cushioned D-loop, Rear - GripVibration ReductionRubber CushionIdle Speed (RPM)2,400-3,200	Clutch	Centrifugal Type
Rotation DirectionClockwise viewed from right sideShieldOpen anti-clogStandard Cutter HeadMetal bladeBlade Length203.2 mm (8.0 in.)Blade Width50.8 mm (2 in.)Blade ThicknessStandard 2.3 mm (0.090 in.), Premium 4.6 mm (0.181 in.)HandleFront Cushioned D-loop, Rear - GripVibration ReductionRubber CushionIdle Speed (RPM)2,400-3,200	Drive Shaft	6.35 mm (1/4 in.) flexible shaft
ShieldOpen anti-clogStandard Cutter HeadMetal bladeBlade Length203.2 mm (8.0 in.)Blade Width50.8 mm (2 in.)Blade ThicknessStandard 2.3 mm (0.090 in.), Premium 4.6 mm (0.181 in.)HandleFront Cushioned D-loop, Rear - GripVibration ReductionRubber CushionIdle Speed (RPM)	GearRatio	2.07:1
Standard Cutter HeadMetal bladeBlade Length203.2 mm (8.0 in.)Blade Width50.8 mm (2 in.)Blade ThicknessStandard 2.3 mm (0.090 in.), Premium 4.6 mm (0.181 in.)HandleFront Cushioned D-loop, Rear - GripVibration ReductionRubber CushionIdle Speed (RPM)	Rotation Direction	Clockwise viewed from right side
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) 2,400-3,200	Shield	Open anti-clog
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) 2,400-3,200	Standard Cutter Head	Metal blade
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)2,400-3,200	Blade Length	203.2 mm (8.0 in.)
Handle Front Cushioned D-loop, Rear - Grip Vibration Reduction Rubber Cushion Idle Speed (RPM) 2,400-3,200	Blade Width	50.8 mm (2 in.)
Vibration Reduction Rubber Cushion Idle Speed (RPM) 2,400-3,200	Blade Thickness	Standard 2.3 mm (0.090 in.), Premium 4.6 mm (0.181 in.)
Idle Speed (RPM) 2,400-3,200	Handle	Front Cushioned D-loop, Rear - Grip
	Vibration Reduction	Rubber Cushion
Wide Open Throttle Speed (RPM) 10,000-12,000	Idle Speed (RPM)	2,400-3,200
	Wide Open Throttle Speed (RPM)	10,000-12,000



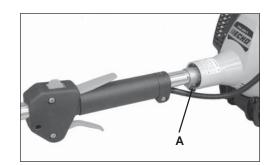
ASSEMBLY

DRIVE SHAFT/POWER HEAD

Tools Required: 4 mm Hex Wrench

Parts Required: Power Head, Drive Shaft Assembly

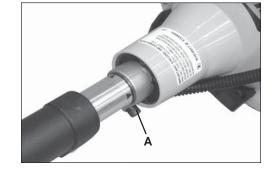
- 1. Loosen, the bolt (A) at engine drive shaft clamp.
- 2. Remove dust cap and carefully fit drive shaft assembly to engine making sure that inner drive shaft engages into clutch mount.



NOTE

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

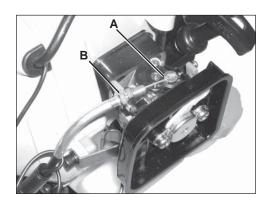
3. Turn drive shaft housing so that center line of engine housing is midway between the two arrows on drive shaft.

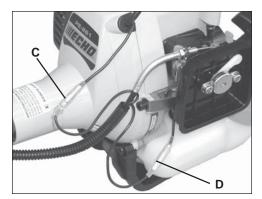


4. Tighten bolt (A).

THROTTLE LINKAGE AND IGNITION LEADS

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





- 6. Secure ignition leads against engine housing with clip (E).
- 7. Install air filter and cover.



FRONT HANDLE

Tools Required: Cross-Head Screwdriver

- *Parts Required:* Front Handle, Lower Bracket, 4 5x35 mm screws, 4 5 mm nuts
- 1. Assemble front handle and bracket loosely to drive shaft.
- 2. Position front handle in comfortable operating position and tighten screws.





PRE-OPERATION

Fuel Requirements

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

Two Stroke Oil - A two-stroke engine oil meeting ISO-L-EGD (ISO/CD 13738) and J.A.S.O. <u>FC</u> Standards must be used. Echo brand premium Power Blend TM Universal 2-Stroke Oil meets these standards. Engine problems due to inadequate lubrication caused by failure to use an ISO-L-EGD and J.A.S.O. <u>FC</u> certified oil, such as Echo premium Power Blend TM, will void the two-stroke engine warranty. (Emission related parts <u>only</u> 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 TM 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.

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 and remix.
- 5. Install fuel container cap and wipe any spilled fuel from container and surrounding area.

<u>Handling Fuel</u>

WARNING A DANGER

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

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

IMPORTANT

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

After refueling;

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

After use;

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

Storage -

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

IMPORTANT

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

IMPORTANT

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

OPERATION STARTING COLD ENGINE



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. Primer

Pump primer 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

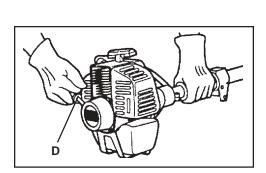
After engine fires or five (5) pulls, move choke lever back to "Run"

() 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.

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 A DANGER

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

NOTE

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

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

Pump primer 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.



1. Throttle

Release throttle and allow engine to return to idle before shutting off engine.

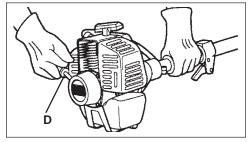
2. *Stop Switch* Move stop switch (A) to STOP position.



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.
- Plan to edge regularly to make it easier to keep a neat edge and to 3. 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.



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

- Loosen adjustment knob and adjust the blade's depth of cut to 4. 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.
- Before edging, plan your direction of travel so that the unit will 5. always be positioned on your right side and so that you walk on a hard surface whenever possible.
- 6 Hold edger as shown.



WARNING A DANGER

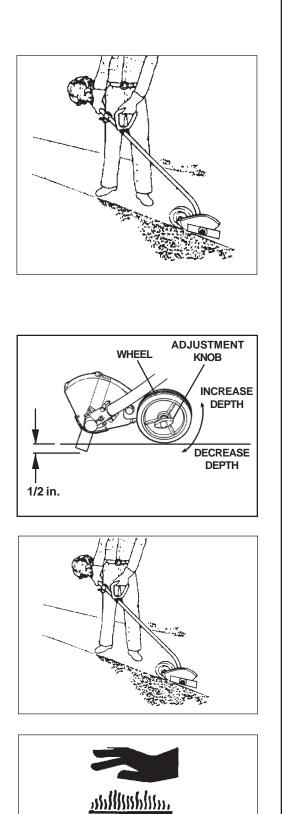
Before edging, be sure to read and understand the entire Operator's Manual to avoid the chance of serious injury.

- 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.





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

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. Just below each task heading are listed the various part numbers required for that task. See your ECHO dealer for these parts.

MAINTENANCE INTERVALS

COMPONENT/ SYSTEM	MAINTENANCE PROCEDURE	REQ'D SKILL LEVEL	DAILY OR BEFORE USE	EVERY REFUEL	3 MONTHS OR 90 HOURS	6 MONTHS OR 270 HOURS	YEARLY 600 HOURS
	Recommended Ech	o Dealer	Maintenanc	e Procedur	es		
Cylinder Exhaust Port	Inspect/Clean/Decarbon	3			I/C		
	Do-lt-Yourse	If Mainter	ance Proce	dures			
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	I / R *			
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 50 hours of use.

(2) Apply ECHO_∞ LUBE[™] every 15-25 hours of use.

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

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AIR FILTER

Level 1.

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

Parts required: 90030 REPOWER[™] Air & Fuel Filter Kit.

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



FUEL FILTER

Level 1.

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

Parts required: 90030 REPOWER[™] Air & Fuel Filter Kit.



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: REPOWER[™] Tune-Up Kit P/N90075

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

COOLING SYSTEMS CLEANING

Level 2.

Tools required: 4 mm Hex Wrench, 25 or 50 mm (1 or 2 in.) Cleaning brush

Parts Required: None if you are careful.

IMPORTANT

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

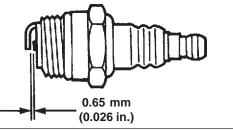
Overheating and engine seizure can occur when:

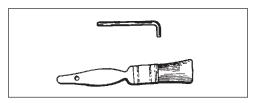
- Air intakes are blocked, preventing cooling air from reaching the cylinder.
- Dust and grass build up on the outside of the cylinder. This build up insulates the engine and prevents the heat from leaving.

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

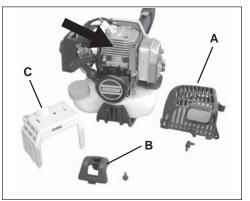
- 1. Remove spark plug lead.
- 2. Remove two (2) muffler cover screws and muffler cover (A).
- 3. Remove screw and top guard (B).
- 4. Remove cylinder cover (C).











IMPORTANT

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

- 5. Use brush to remove dirt from the cylinder fins.
- 6. Remove grass and leaves from the grid between the recoil starter and fuel tank.
- 7. Assemble components in reverse order.

EXHAUST SYSTEM

Spark Arrestor Screen

Level 2.

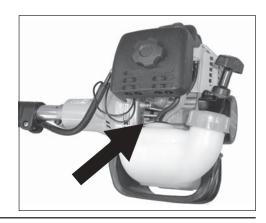
- Tools Required: Cross Head Screwdriver, 4mm Hex Wrench, Soft Metal Brush
- Parts Required: Spark Arrestor Screen P/N 14586240630, Gasket P/N 14586642031
- 1. Remove two (2) muffler cover screws and muffler cover (A).
- 2. Place piston at Top Dead Center (TDC) to prevent carbon/dirt from entering cylinder.
- 3. Remove spark arrestor screen cover (B), gasket (C) and screen (D) from muffler body.
- 4. Clean carbon deposits from muffler components.
- 5. Replace screen if it is cracked, plugged or has holes burned through.
- 6. Assemble components in reverse order.

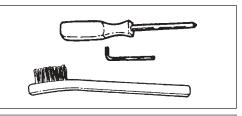
Cylinder Exhaust Port

Level 3.

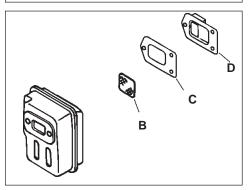
IMPORTANT

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











CARBURETOR ADJUSTMENT

Engine Break-In

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

High Altitude Adjustment

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

Level 2.

Tools required: Screwdriver, Tachometer (ECHOP/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 9 "Specifications" of this manual. Turn idle screw (A) clockwise to increase idle speed; counter clockwise to decrease idle speed.

WARNING

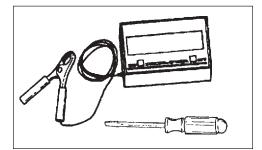


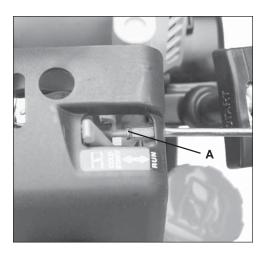
When carburetor adjustment is completed, the cutting attachment should not turn at idle, otherwise serious personal injury may result.

DRIVE SHAFT LUBRICATION

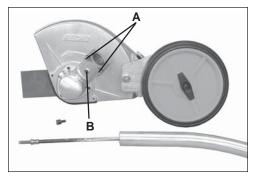
Level 1.

- *Tools required:* 8 mm Open End Wrench, 4 mm Hex Wrench, Clean rag
- *Parts Required:* ECHO_{\otimes} LUBETM 8 oz. (P/N 91014) 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: **ЕСНО**_®**LUBE**TM8 оz. (P/N 91014) 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.

- Remove blade nut (D) in a clockwise direction using T-wrench. Remove outer blade adapter (E), blade (F) and inner blade adapter (B).
- 5. Remove plug (G) and grease gear housing. Do not over fill grease will emerge between PTO shaft (C) and seal when over full.

NOTE

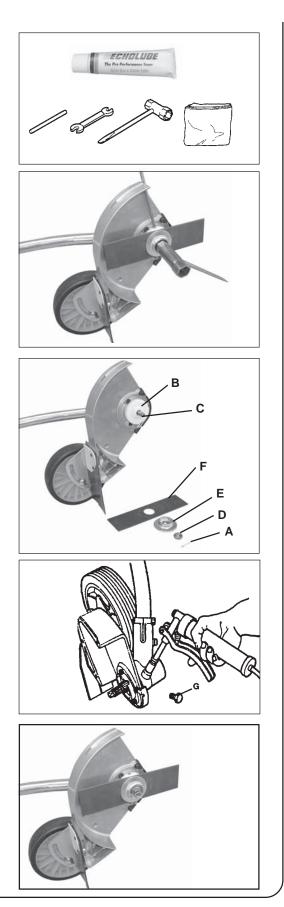
Shield cover not shown for illustration clarity.

- 6. Install inner blade adapter (B) onto PTO shaft (C).
- 7. Install and center new blade (F) onto inner adapter (B).
- 8. Install outer adapter (E) and nut (D). Tighten nut (D) firmly, counterclockwise (CCW).

IMPORTANT

Never reuse old split pin.

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



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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	
		No fuel at cylinder	Carburetor	See your Echo dealer	
	Fuel at cylinder	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	



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

STORAGE

WARNING A DANGER

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

Long Term Storage (over 30 days)

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

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



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).

SERVICING INFORMATION

PARTS

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

Model No. _____ SN. _____

SERVICE

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

ECHO CONSUMER PRODUCT SUPPORT

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

WARRANTY REGISTRATION

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

ADDITIONAL OR REPLACEMENT MANUALS

<u>Safety Manuals</u> 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.
- Sending a check or money order for \$2.00 per Parts Catalog or \$1.50 per Operator's Manual made payable to ECHO, INCORPORATED. State on a sheet of paper the model number and serial number of the ECHO unit you have, part number of the manual (if known), your name and address and mail to address below.

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

Available Parts Catalog

PE-260

Serial Number 05001001 - 05999999

Part Number 99922203155



400 Oakwood Road Lake Zurich, IL 60047 **WWW.echo-usa.com**



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

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





This Supplement contains important information. Please keep with your Operator's Manual. SUPPLEMENT TO OPERATOR'S MANUAL FOR MODELS: SRM-260/260S HCA-260 PAS-260 PE-260 PPT-260 SHC-260 SERIAL NUMBER 05001001 - 05999999 SERIAL NUMBER 07001001 - 07999999

Serial number range on owner's manual cover may be different than serial number on unit.

Sections listed below have been modified for units serial number 06001001 & up.

EMISSION CONTROL

EPA Phase 2

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



SPECIFICATIONS

Exhaust ----- Spark Arrestor Muffler w/catalyst

EXHAUST SYSTEM

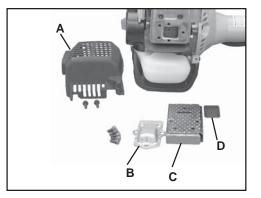
Spark Arrestor Screen

Level 2.

Parts Required: Spark Arrestor Screen, P/N 14586240630 Gasket, P/N V104000360

NOTE

When cleaning carbon deposits, be careful not to damage the catalylic body.



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ASISTENCIA AL CLIENTE DE ECHO

Si necesita asistencia o tiene dudas referentes a la aplicación, operación o mantenimiento de este producto puede llamar al Departamento de asistencia de productos del consumidor de ECHO, 1-800-673-1558 de 8:30 de la mañana a 4:30 de la tarde (hora central estándar) de lunes a viernes. Antes de llamar, tenga a mano el número de modelo y serie de su unidad para ayudar a su representante de asistencia de productos del consumidor.

SERVICE APRÈS-VENTE ECHO

Pour toute assistance ou question concernant l'application, l'utilisation ou l'entretien de ce produit, appeler le service d'assistance clients ECHO au 1-800-673-1558, de 8 heures 30 à 16 heures 30 (heure normale du centre), du lundi au vendredi. Avant d'appeler, veiller à disposer des numéros de modèle et de série de l'unité afin d'aider votre représentant du service après-vente.



ECHO, INCORPORATED 400 Oakwood Road Lake Zurich, IL 60047-1564 www.echo-usa.com