

ECHO PPT-260 Power Pruner



# ECHO PPT-260 Power Pruner Instruction Manual

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ECHO PPT-260 Power Pruner



## **Product Information**

### **Specifications**

- Model: PPT-260
- Serial Number: 03001001 – 03999999

### **Introduction**

Welcome to the ECHO family. This ECHO Power Pruner™ was designed and manufactured to provide long life and on-the-job dependability. This manual, along with the Safety Manual included in the package, will provide you with easy-to-use instructions and helpful operating tips.

### **The Operator's Manual**

The Operator's Manual contains specifications and information for operation, starting, stopping, maintenance, storage, and assembly specific to this product.

### **The Safety Manual**

The Safety Manual explains possible hazards involved with the use of the Power Pruner™ and provides measures you should take to make their use safer

## **Product Usage Instructions**

### **Safety**

Before operating the Power Pruner™, it is important to read and understand the safety instructions provided in the Safety Manual. Failure to follow these safety guidelines may result in serious injury.

### **Operation**

#### **Starting Cold Engine**

To start the Power Pruner™ with a cold engine, follow these steps:

1. Ensure the fuel tank is filled with the recommended fuel mixture.
2. Set the choke lever to the closed position.
3. Pull the starter grip until you feel resistance, then give a strong pull to start the engine.
4. Once the engine starts, gradually open the choke lever.

#### **Starting Warm Engine**

To start the Power Pruner™ with a warm engine, follow these steps:

1. Set the choke lever to the open position.
2. Pull the starter grip until you feel resistance, then give a strong pull to start the engine.

### **Stopping Engine**

To stop the Power Pruner™, simply release the throttle trigger and let the engine idle for a few seconds. Then, push the stop switch to the “STOP” position.

### **Pruning Techniques**

Proper pruning techniques are essential for efficient and safe operation of the Power Pruner™. Refer to the Pruning Technics section in the Operator’s Manual for detailed instructions on how to prune effectively.

### **Troubleshooting**

If you encounter any issues with the Power Pruner™, refer to the Troubleshooting section in the Operator’s Manual for possible solutions.

### **Storage**

When not in use, it is important to store the Power Pruner™ properly. Follow the storage guidelines provided in the Operator’s Manual to ensure its longevity.

### **Servicing Information**

For any servicing needs, refer to the Servicing Information section in the Operator's Manual. It provides information on parts, service centers, and warranty information.

## FAQ (Frequently Asked Questions)

- Q: Where can I find additional or replacement manuals?

A: Additional or replacement manuals can be obtained by following the Manual Ordering Instructions provided in the Operator's Manual.

- Q: Are there any optional equipment or accessories available for the Power Pruner™?

A: Yes, there may be optional equipment and accessories available. Please refer to the illustrations in the manual for more information.

- Q: Can the specifications of the Power Pruner™ change without notice?

A: Yes, specifications, descriptions, and illustrative material are subject to change without notice. Please refer to the most up-to-date information provided in the manual.

## WARNING

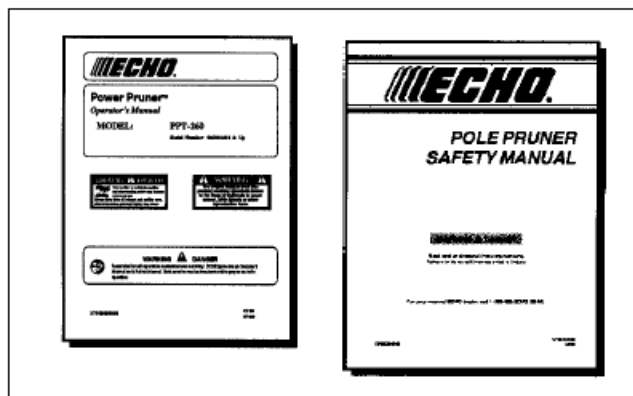
Read rules for safe operation and instructions carefully. ECHO provides an Operator's Manual and a Safety Manual. Both must be read and understood for proper and safe operation.

## 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 operating tips and SAFETY messages.

## WARNING DANGER

Read rules for safe operation and instructions carefully. ECHO provides an Operator's Manual and a Safety Manual. Both must be read and understood for proper and safe operation.



- **THE OPERATOR'S MANUAL** contains specifications and information for operation, starting, stopping, maintenance, storage and assembly specific to this product.
- **THE SAFETY MANUAL** explains possible hazards involved with the use of Power Pruner™ and what measures you should take to make their use safer.

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, information messages preceded by symbols or key words. The following is an explanation of those symbols and key words and what they mean to you

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

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

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

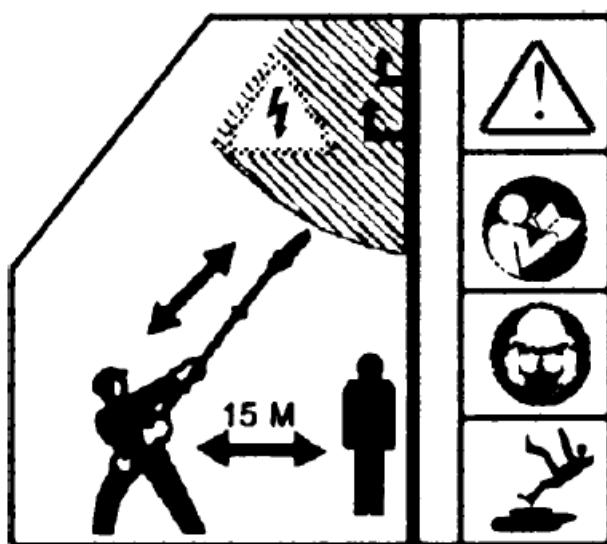
NOTE This enclosed message provides tips for use, care and maintenance of the unit.

## SAFETY

### DECALS

Locate this safety decal 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.











#### Shaft Coupler



P/N 89016022660

## 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 operate closer than 15m (50 ft.) from electrical hazards.
	Keep bystanders at least 15m (50 ft.) away.		Plan retreat path from falling objects.

Symbol form/shape	Symbol description/application	Symbol form/shape	Symbol description/application
	DO NOT allow flames or sparks near fuel.		Wear slip resistant foot wear.
	Engine choke control.		Ignition ON/OFF
	Emergency stop		Primer bulb
	Chain lubrication		Carburetor adjustment -High speed mixture
	Carburetor adjustment -Low speed mixture		Carburetor adjustment -Idle speed

## EQUIPMENT



Before operation a complete check of the unit must be performed;

- 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.
- Never adjust the guide bar or saw chain when the engine is operating.

### Guide Bar and Saw Chain\

- Serious injury may result from the use of non approved guide bar and saw chain combinations. Read and comply with all safety instructions listed in this manual.
- ECHO, INC. will not be responsible for the failure of cutting devices or accessories which have not been tested and approved by ECHO for use with this unit.
- Check that the cutting attachment, guide bar and saw chain is firmly attached and in safe operating condition.

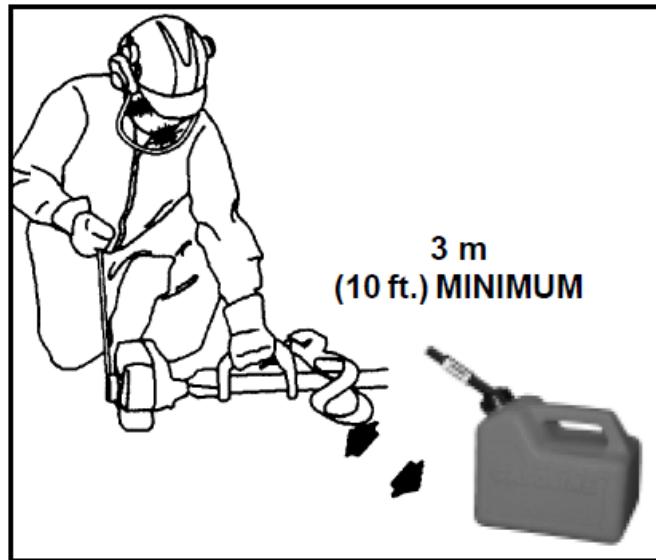


- Only use ECHO approved guide bar and saw chain.
- Only use one ECHO approved extension on the pruner.
- Do not hit rocks, stones, tree stumps and other foreign objects with the saw chain.
- Do not cut into the ground with the saw chain.
- If cutting attachment end strikes an obstruction, stop engine immediately and inspect saw chain for damage.
- Do not operate with a dull, fractured or discolored saw chain.
- Remove all foreign objects from work area.
- Always cover the guide bar and saw chain with guide bar cover during transportation and in storage.

## FUEL

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 out doors 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.

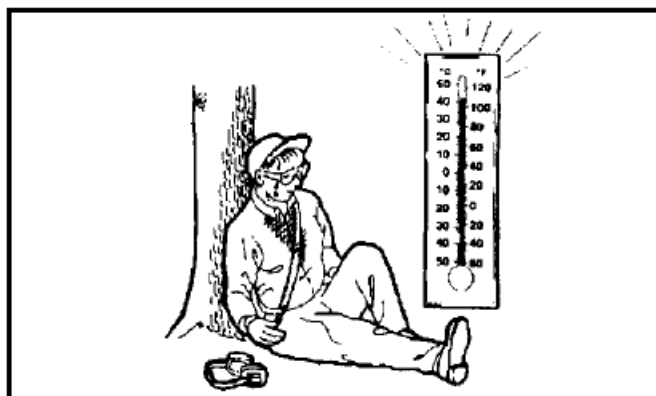
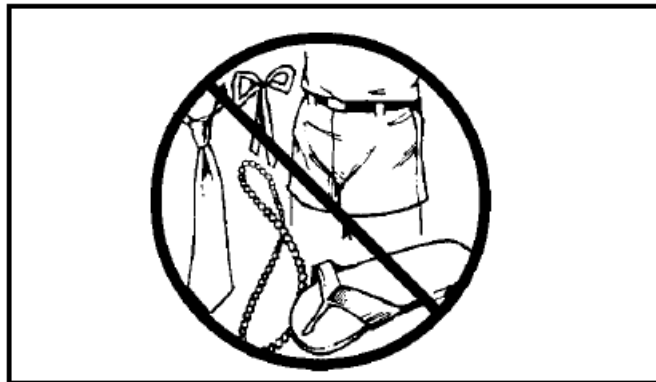
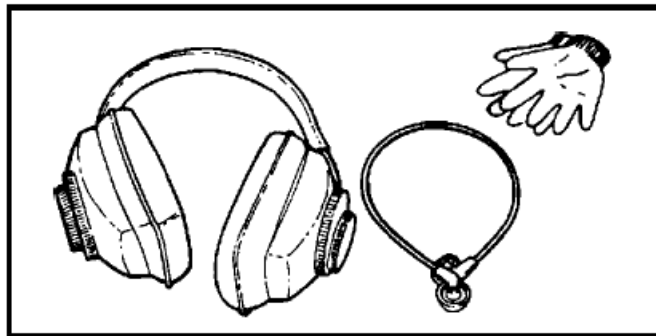
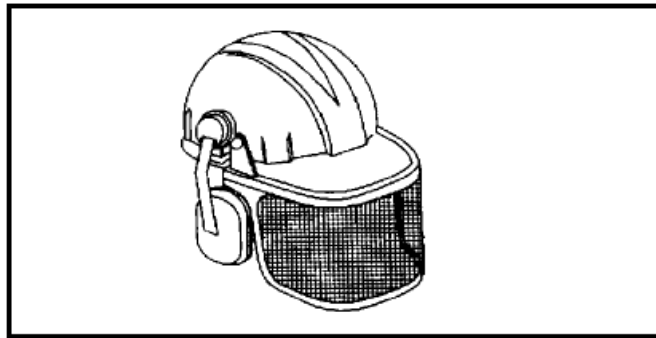
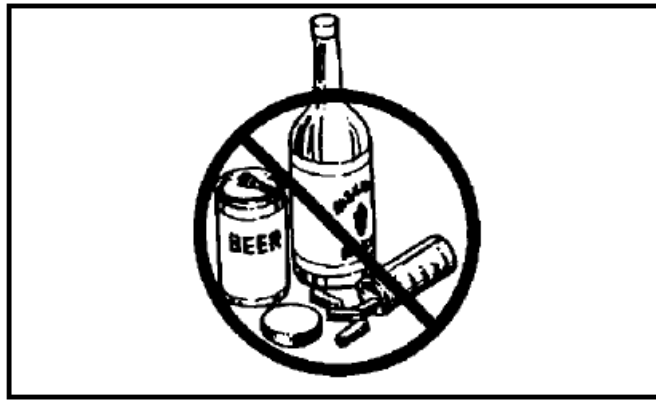
### **After Use;**

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

## **PERSONAL CONDITION & SAFETY EQUIPMENT**

Power Pruner™ users risk injury to themselves and others if the Power Pruner™ is used improperly and or safety precautions are not followed. Proper clothing and safety gear must be worn when operating a Power Pruner™.





**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 when-ever you operate the Power Pruner™.

**Face & Head Protection —**

When trimming overhead, always wear head protection meeting ANSI Z89.1 or CE requirements with a full face shield. Head protection with full face shield will help protect you from falling branches and debris.

**Hand Protection —**

Wear no-slip, heavy duty work gloves to improve your grip on the Power Pruner™ 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 protective clothing; chain saw safety pants or chaps are recommended.

- Pants should have long legs, shirts with long sleeves.
- DO NOT WEAR SHORTS,
- DO NOT WEAR TIES, SCARVES, JEWELRY.

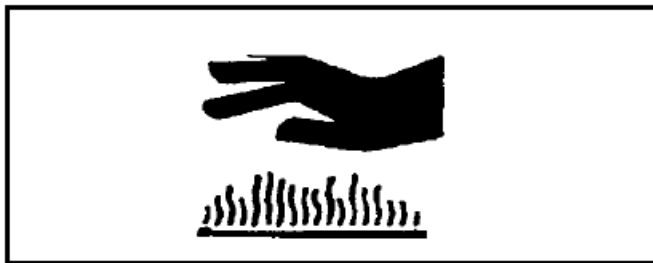
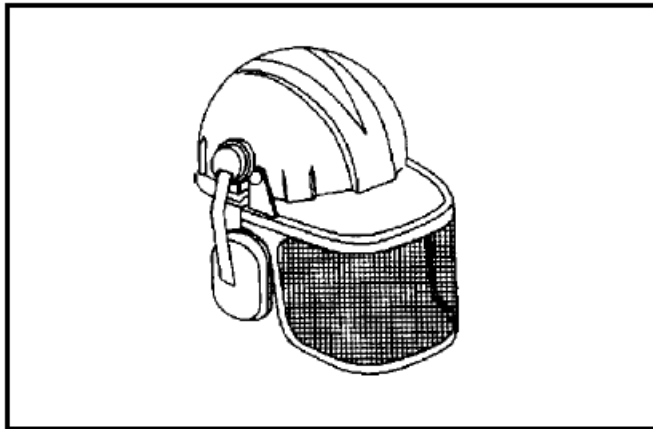
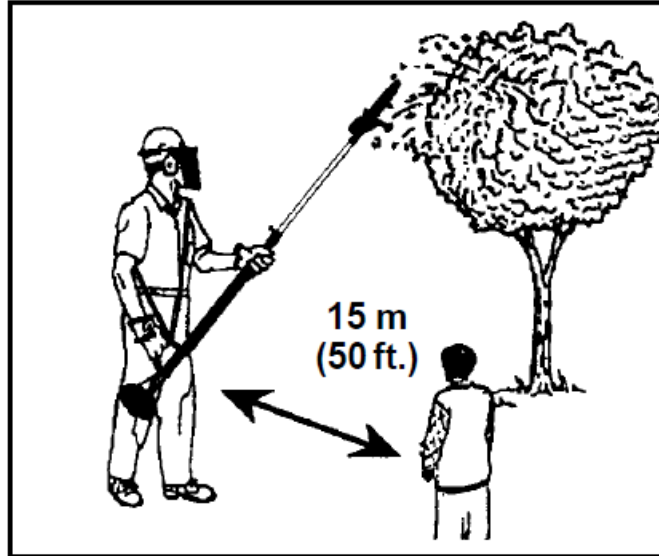
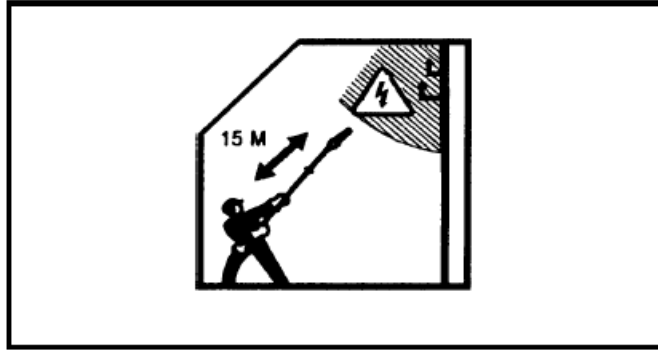
**Wear sturdy protective safety shoes or boots with non-skid soles;**

- DO NOT WEAR OPEN TOED SHOES,
- DO NOT OPERATE UNIT BAREFOOTED.

**Hot Humid Weather —**

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

## SAFE OPERATION



All over head electrical conductors and communications wires can have electricity flow with high voltages. Never touch wires directly or indirectly when pruning, otherwise serious injury or death may result.

### Determine Operation Area

- Provide all operators of this equipment with the Operator's Manual and instructions for safe operation.
- Do not operate this product indoors or in inadequately ventilated areas.
- Review the area to be trimmed. Look for hazards that could contribute to unsafe conditions. DO NOT operate unit if any wires (power, telephone, cable, etc.) are closer than 15 m (50 ft.) to any part of the operator or unit.
- Spectators and fellow workers must be warned, and children and animals prevented from coming nearer than 15 m (50 ft.) while the Power Pruner™ is in use.
- Avoid all power lines. This unit is not insulated against electrical current.

## **Operation**

Do not operate this product indoors or in inadequately ventilated areas. Engine exhaust contains poisonous emissions and can cause serious injury or death.

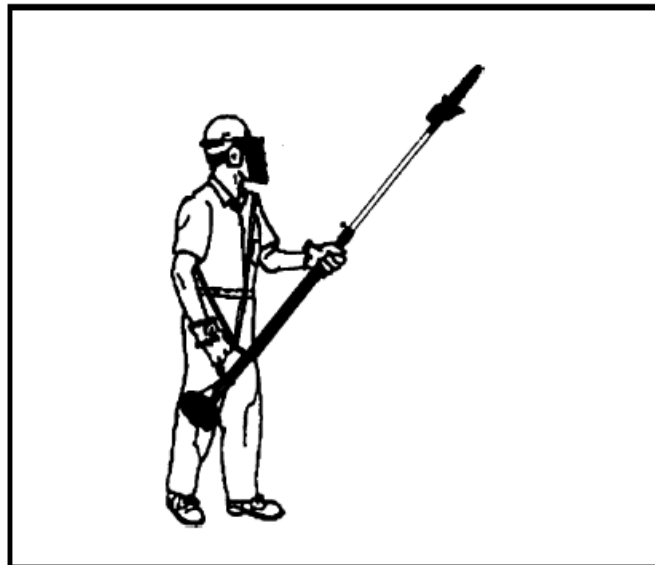
## **Use Proper Clothing & Equipment**

- Before starting the unit, equip yourself and any other person working within the 15 m (50 ft.) Safety Zone with the required Protective Equipment and clothing.
- Always wear head protection with full face shield to help protect against falling branches and debris.

## **Avoid Hot Surfaces**

During operation, the complete unit, especially the power head, muffler cover area and cutting attachment may become very hot, too hot to touch. Avoid contact during and immediately after operation. Always keep exhaust area clear of flammable debris.

## **Keep A Firm Grip**



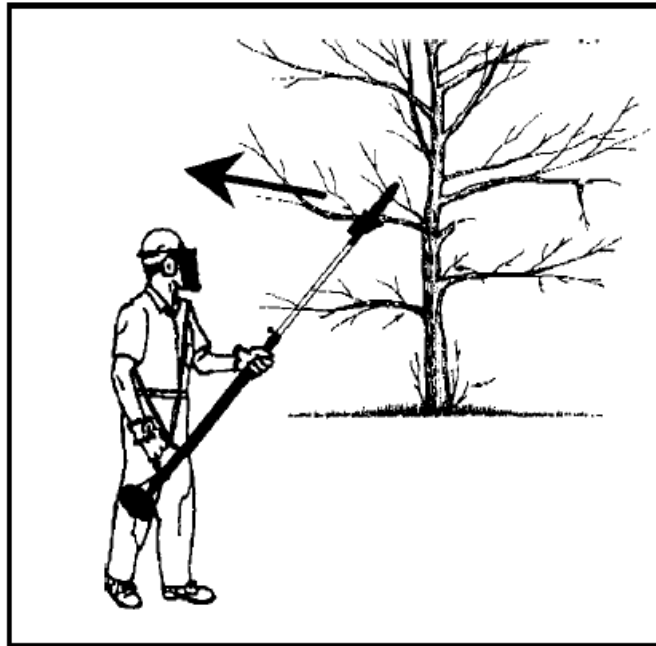
Grip Power Pruner™ with both hands with thumbs and fingers encircling the handle, and lower shaft tube.

## **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 overreach.

- Operate the Power Pruner™ only from the ground or out of an approved bucket lift.
- Always evaluate the branches to be pruned for hazards such as loose dead branches which may fall and strike the operator or helpers. Remove hazards before pruning.
- Cut branches bounce when striking ground.
- Plan retreat path from falling objects.
- Check that shoulder harness is adjusted for safe, comfortable operation. See picture at right for proper adjustment.
- Turn the Power Pruner™ off when moving from tree to tree.
- Avoid any contact with saw chain.

## KICKBACK



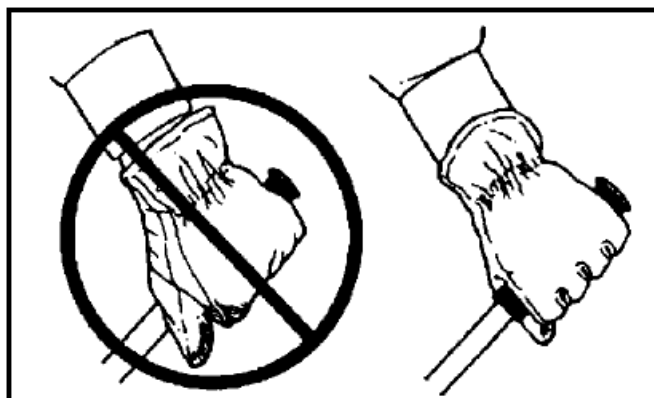
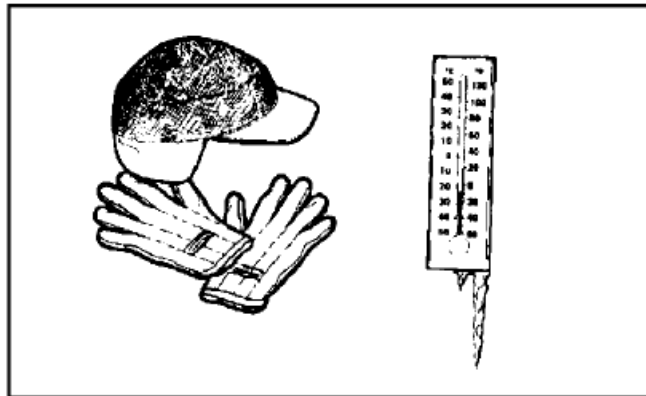
Kickback can lead to dangerous loss of control of the Power Pruner™ and result in serious injury to the operator or any one standing close by. Hold the Power Pruner™ firmly with both hands with thumbs and fingers encircling the front and rear handles. Be aware of the down and outward path the pruner will take after the cut is made.

- Kickback may occur when the moving saw chain at the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. In some cases this may cause a lightning-fast reverse action, kicking the guide bar and saw chain up and back or down and back towards the operator. Either of these reactions may cause the operator to lose control of the Power Pruner™ which could result in serious personal

injury.

- With a basic understanding of kickback, you can reduce or eliminate the element of surprise which contributes to accidents.
- Avoid contact of the guide bar tip with any object while the saw chain is moving.
- Cut only wood. Avoid striking concrete, metal, wire, or other obstructions which could cause kickback or damage to the saw chain.
- If the saw chain does strike a foreign object, immediately stop the engine, inspect and repair the Power Pruner™ if necessary.

#### 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 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 trimmer 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:

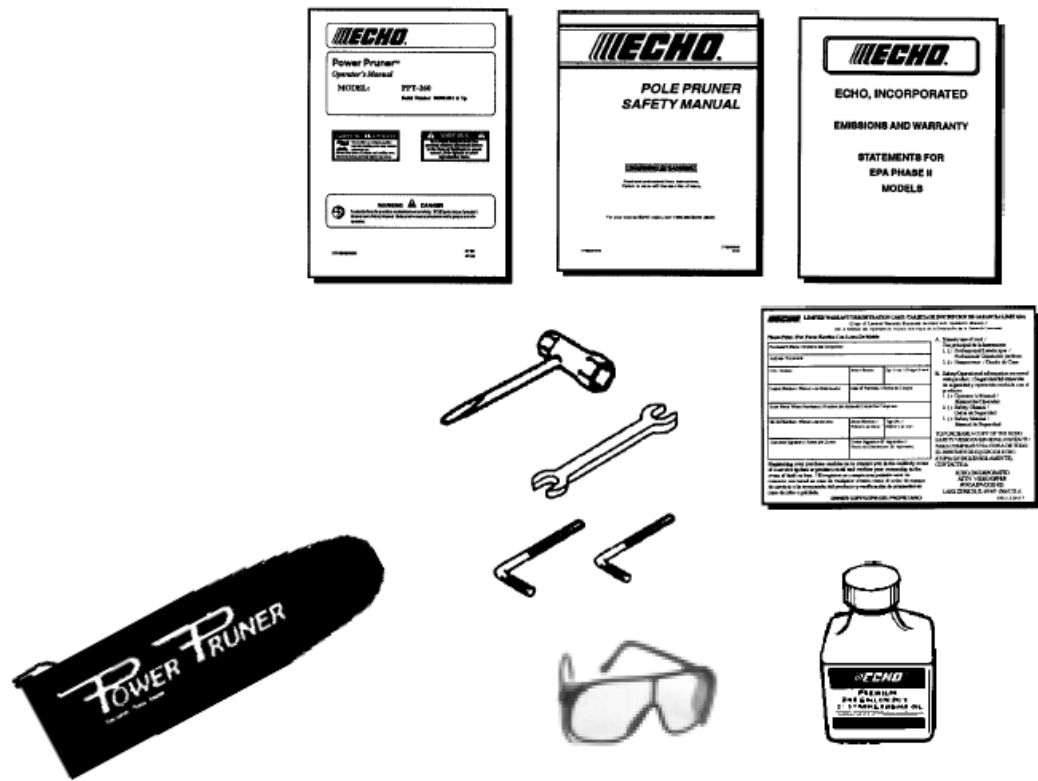
- Avoid using your wrist in a bent, extended or twisted position. Instead try to maintain a straight wrist position. Also, when grasping, use your whole hand, not just the thumb and index finger.
- Take periodic breaks to minimize repetition and rest your hands.
- Reduce the speed and force with which 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.

## **DESCRIPTION**

Due to packaging restriction the ECHO product you have purchased requires some assembly.

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**



- Power Head
- Shaft Tube Assembly
- Cutting Attachment W/ Guide Bar and Saw Chain
- Plastic Bag
- Operator's Manual
- Safety Manual
- Warranty Registration Card
- Warranty Statement
- Plastic Bag
- T-Wrench (combination screwdriver/spark plug socket)
- 3 mm hex wrench
- 4 mm hex wrench
- 8 x 10 mm Spanner
- Safety Glasses
- 2-Stroke Oil Bottle (2.6 oz.)
- Shoulder Harness
- Guide Bar Cover

## EMISSION CONTROL

### EPA Phase II

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





#### **IMPORTANT ENGINE INFORMATION**

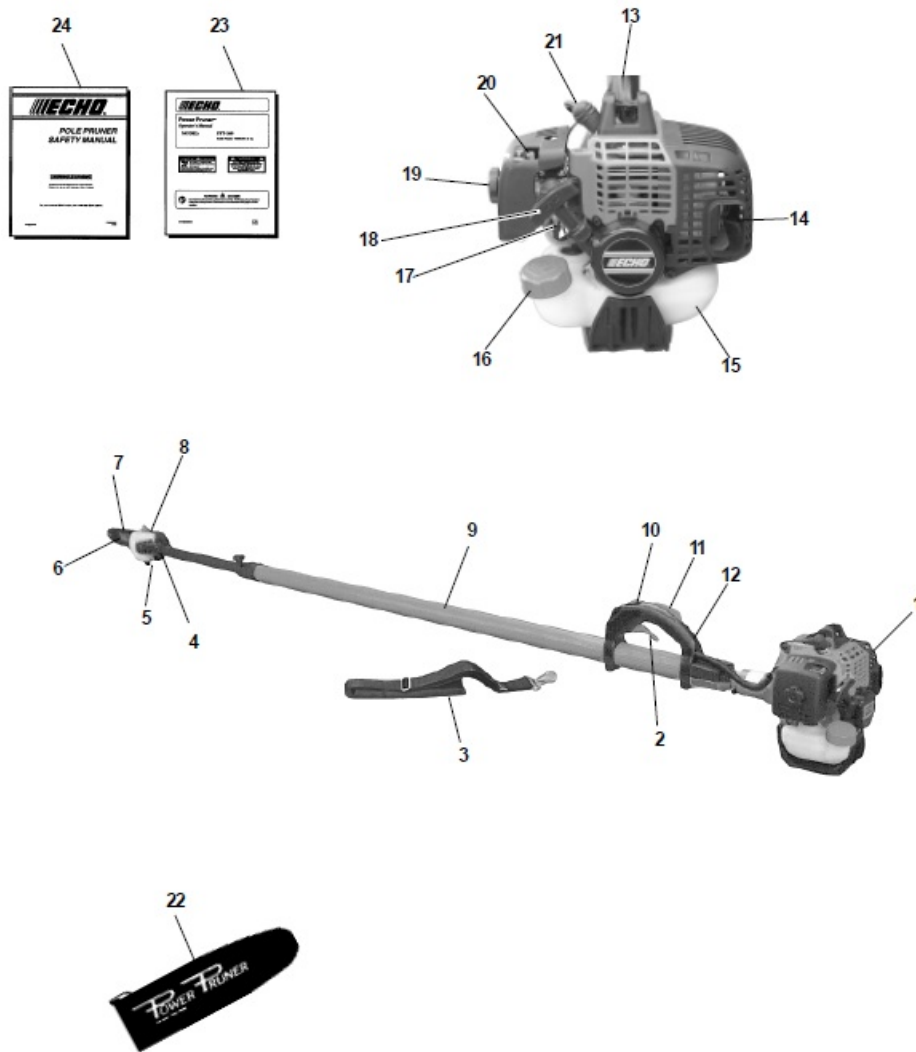
- ENGINE FAMILY: YEHXS.0254RA
- DISPLACEMENT: 25.4 CC
- THIS ENGINE MEETS U.S. EPA PHASE II EMISSION REGULATIONS FOR S.O.R.E. REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.
- EMISSION COMPLIANCE PERIOD : 300 HRS.

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

## DESCRIPTION



1. POWER HEAD – Includes the Engine, Clutch, Fuel System, Ignition System and Starter.
2. THROTTLE TRIGGER – Spring loaded to return to idle when released. During acceleration press trigger gradually for best operating technique.
3. SHOULDER HARNESS – An adjustable strap that suspends the unit from the operator.
4. CUTTING ATTACHMENT – Sealed, gear ratio is 1.5:1 reduction.
5. CUTTING SHOE – Used to capture and stabilize branches while cutting. Place the cutting shoe against a branch, accelerate, and lower saw chain into the branch.
6. GUIDE BAR – 305 mm (12 in.) guide bar w/chain tensioner.
7. SAW CHAIN – 91 VS 9.53 mm (3/8 in.) low profile Oregon® saw chain. Runs approximately 609.6 m/min. (2000 ft/min) at full throttle.
8. AUTOMATIC OILER ASSEMBLY – Self-oiling. Use high quality, low viscosity, nondetergent bar, and chain oil.
9. LOWER SHAFT TUBE – Durable fiberglass mesh housing.
10. STOP SWITCH – Mounted on top of handle assembly. Move the switch forward to run, back to stop.
11. THROTTLE TRIGGER LOCKOUT – This lever must be depressed before the throttle trigger can be operated.
12. REAR HANDLE ASSEMBLY – Sturdy handle for right-hand placement. Includes stop switch and throttle trigger.
13. ARM REST – Provides armrest during operation and protects arm from hot engine.
14. SPARK ARRESTOR – CATALYTIC MUFFLER / MUFFLER -The muffler or catalytic muffler controls exhaust noise and emission. The spark arrestor screen prevents hot, glowing particles of carbon from leaving the muffler. Keep exhaust area clear of flammable debris.

15. FUEL TANK – Contains fuel and fuel filter.
16. FUEL TANK CAP – Covers and seals fuel tank opening.
17. PRIMER BULB – Pumping primer bulb before starting the engine draws fresh fuel from the fuel tank priming the carburetor for starting. Pump the primer bulb until the fuel is visible and flows freely in the clear fuel tank return line. Pump bulb an additional 4 or 5 times.
18. RECOIL STARTER – Pull the recoil handle slowly until the starter engages, then quickly and firmly. When the engine starts return the handle slowly. DO NOT let the handle snap back or damage will occur.
19. AIR CLEANER ASSEMBLY – Contains replaceable air filter element.
20. CHOKE – Located on top of air cleaner housing. Move the lever to ‘Cold Start’ position to close the choke for cold starting. Move the lever to “Run” to open the choke.
21. SPARK PLUG – Provides spark to ignite fuel mixture.
22. GUIDE BAR COVER – Used to cover guide bar and saw chain during transport and storage. Remove the guide bar cover before using the unit.
23. OPERATOR’S MANUAL – Read and understand this manual before operation. Keep the manual in a safe location for future reference, i.e., operation, maintenance, storage, and specifications.
24. SAFETY MANUAL – Read before operation and keep in a safe place for future reference to learn proper, safe operating techniques.

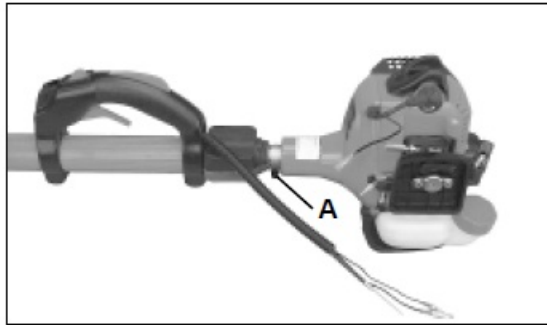
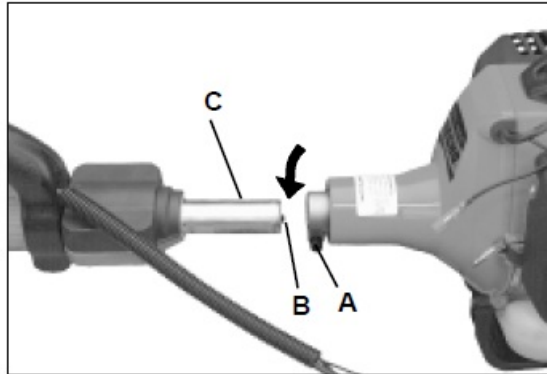
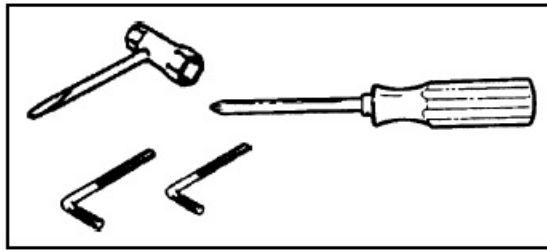
## SPECIFICATIONS

MODEL	PPT-260
Length (Standard)	2.76 m (9 ft. 0.7 in.)
Length (Extended)	3.90 m (12 ft., 9.750in.)
Length w/extension	5.44 m (17 ft.)
Width	.23 m (9.06 in.)
Height	.22 m (11.8 in.)
Weight (dry)	7.60 kg (16.7 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 System	Spark Arrestor Muffler
Carburetor	Walbro WYJ
Ignition System	CDI (capacitor discharge ignition)
Spark Plug	NGK BPM-7Y Gap 0.65 mm (0.026 in.)
Fuel	Mixed (Gasoline and Two-stroke Oil)

Fuel/Oil Ratio	50:1 ECHO High Performance, 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.
Fuel Tank Capacity	0.58 lit. (19.6 US fl. oz.)
Starter System	Automatic Recoil Starter
Clutch	Centrifugal Type
Sprocket Type	6 tooth spur, 9.53 mm (3/8") pitch
Power Transmission Shaft Assembly	Aluminum Extrusion
Gear Case Ratio	1.5:1
Oiling System	Automatic
Saw Chain Oil Capacity	225 ml (7.6 oz.)
Handle	Right hand grip w/throttle trigger and lockout
Shoulder Harness	Standard
Idle Speed (RPM)	2400 – 3000
Wide Open Throttle Speed (RPM)	9500 – 11,000
Guide Bar and Saw Chain (91 VS)	305 mm (12 in.) ; 9.53 mm (3/8") pitch

## ASSEMBLY

### SHAFT TUBE / POWERHEAD



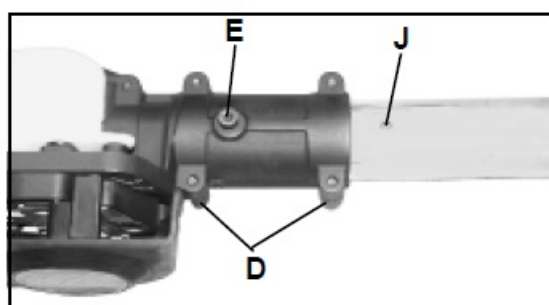
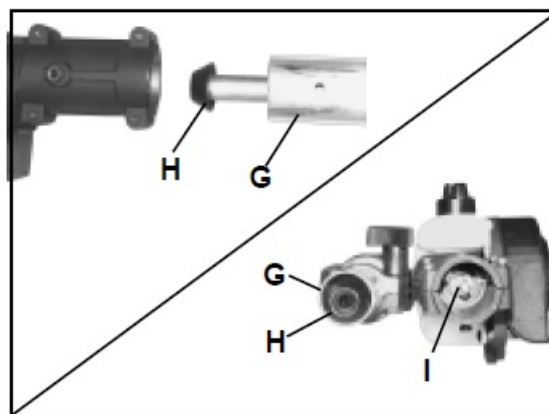
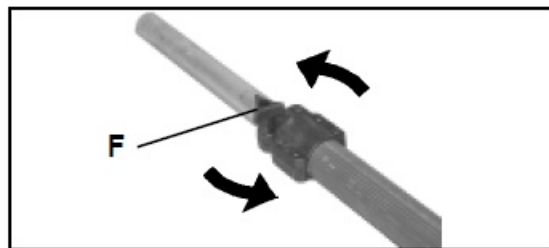
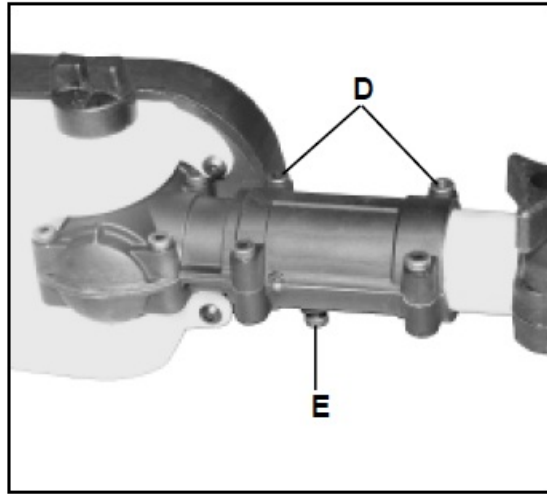
Tools Required: 10x19mm (13/32x3/4in) T-wrench, 8x10 mm Wrench, 4 mm Hex Wrench

Parts Required: Power Head, Shaft Tube Assembly; Cutting Attachment

1. Loosen bolt (A).
2. Match the square socket in the engine shaft with the square power transmission shaft (B) and slide together until the engine rests against the machine surface of the lower shaft tube housing coupler (C).
3. Rotate the lower shaft tube housing to align the engine and rear handle assembly in an upright position.
4. Tighten bolt (A) securely so the engine will not rotate on the lower shaft tube.

#### **CUTTING ATTACHMENT TO SHAFT TUBE INSTALLATION**

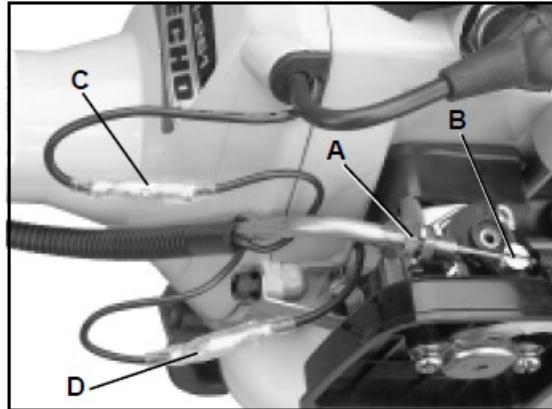
Saw Chain is sharp! Always wear gloves when handling assembly, otherwise serious personal injury may result.



1. Loosen the four (4) screws (D) and locator screw (E) on the cutting attachment.
2. Loosen center clamp knob (F) turning counter clockwise.
3. Pull the upper shaft tube (G) out of the fiberglass lower shaft tube 127-152 mm (5-6 in.), then slide (G) back into the fiberglass lower shaft tube exposing the inner power transmission shaft (H). Align and join star shaped drive end of the inner power transmission shaft (H) with the cutting attachment shaft (I).
4. Align ridges on the upper shaft tube (G) with seams in the cutting attachment.
5. Slide together aligning locator screw (E) in cutting attachment with locating hole (J) in upper shaft tube.
6. Tighten locator screw (E). Tighten four (4) cutting attachment screws (D).

7. Extend the upper shaft tube to the desired length. Tighten the center clamp knob (F) by turning clockwise

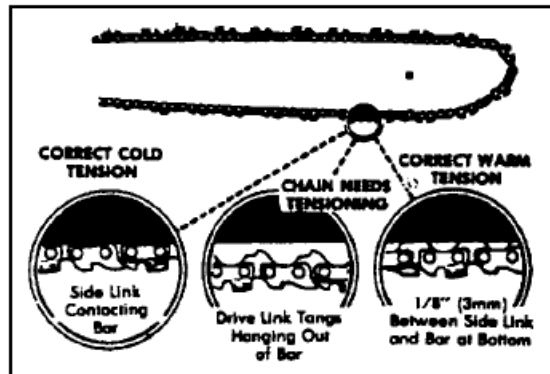
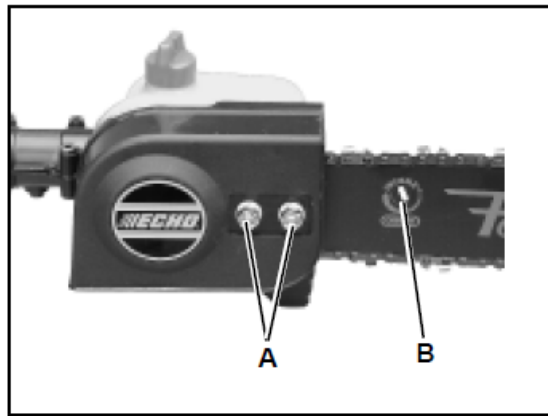
## THROTTLE LINKAGE AND IGNITION LEADS



1. Close the choke and remove air filter cover.
2. Loosen nut (A) and place the threaded end of the throttle linkage in a bracket slot. Finger tighten nut (A).
3. Place the inner cable in the slot of the carburetor swivel (B) and tighten nut (A).
4. Check the throttle for freedom of movement and that wide open throttle / low idle extremes are adjusted properly. If an adjustment cannot be achieved with adjusting nuts, consult with your Echo Dealer for the correct adjustment procedure.
5. Connect ignition stop leads (C) and (D).
6. Bundle and secure ignition leads against engine housing with clip (E).
7. Install air filter and cover

## SAW CHAIN TENSION ADJUSTMENT

Tools Required: 10x19mm (13/32x3/4in.) T-wrench provided

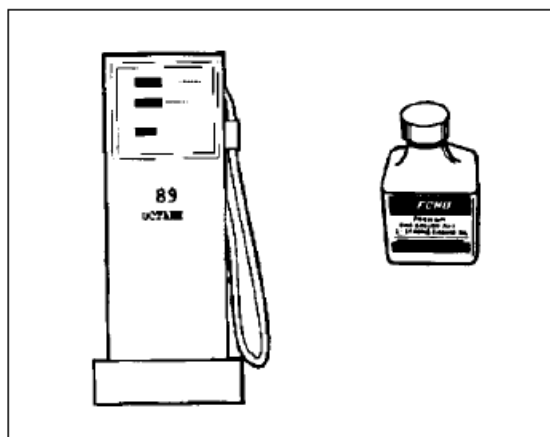


To Adjust Saw Chain Tension.

1. Loosen two (2) 10 mm (13/32 in.) guide bar nuts (A) located on the cutting attachment.
2. Turn the adjuster slot (B) clockwise until saw chain touches the bottom of the guide bar. Turning the adjuster slot (B) counterclockwise will loosen the saw chain on the guide bar.
3. Tighten guide bar nuts firmly. Move saw chain backward on guide bar by hand. Saw chain should move freely on the guide bar if it is in proper mesh with the sprocket.

Keep the saw chain lubricated and properly adjusted and the guide bar nuts tightened firmly at all times. If saw chain is difficult to rotate or binds on guide bar, it is too tight.

## PRE-OPERATION



## FUEL

Fuel Requirements



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

Two-Stroke Oil – A two-stroke engine oil meeting ISO-L-EGD (ISO/CD 13738) and J.A.S.O. FC Standards, must be used. Echo brand Premium 50:1 oil meets these standards. Engine problems due to inadequate lubrication caused by failure to use an ISO-L-EGD and J.A.S.O. FC certified oil, such as Echo Premium 50:1 Two-stroke Oil, 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 EPA Phase II Emission Defect Warranty Explanation.)

### **IMPORTANT**

Echo Premium 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**

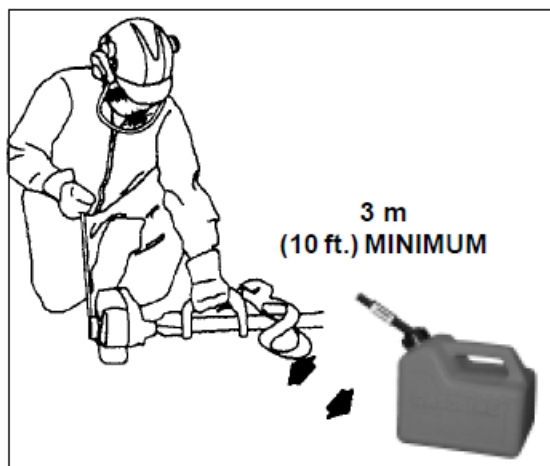


1. Fill an approved fuel container with half of the required amount of gasoline.
2. Add 2-stroke oil to gasoline.
3. Close container and shake to mix oil with gasoline.
4. Add remaining gasoline and remix.
5. Install fuel container cap and wipe any spilled fuel from container and surrounding area.

### **Handling Fuel**

#### **WARNING DANGER**

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



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

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

#### **After Refueling;**

- Wipe any spilled fuel from the unit.
- Move at least 3 m (10 ft.) from the 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, or ninety (90) days when a fuel stabilizer is added.

#### **IMPORTANT**

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

### **LUBRICATING THE GUIDE BAR AND SAW CHAIN**

#### **Automatic Oiling System**



1. Wipe debris from around oil fill cap.
2. Remove oil fill cap and fill the reservoir with a quality, low-viscosity guide bar and saw chain oil.

#### **NOTE**

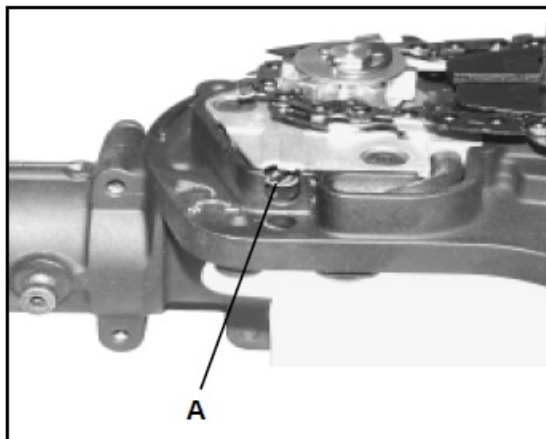
The discharge volume of the automatic oiler is preset to deliver 3 to 4 cc/min. at normal operating RPM. During heavy or dry cutting conditions the oil discharge volume may be adjusted to assure adequate lubrication. Refill the oil reservoir with each tank of fuel.

#### **IMPORTANT**

To prevent plastic deterioration, do not use synthetic or silicone-based oil.

### **ADJUSTING AUTOMATIC OILER**

Tools required: 10x19mm (13/32×3/4) T-Wrench provided



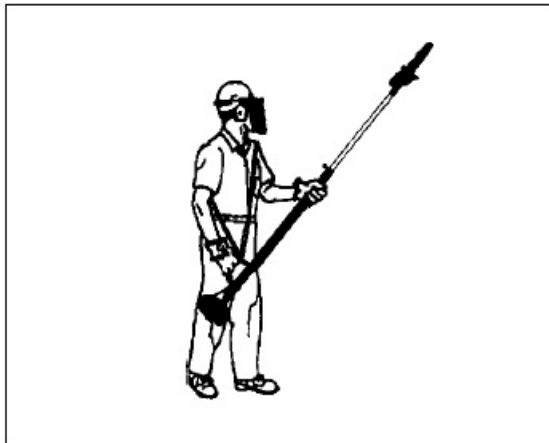
1. Remove two (2) 10 mm guide bar retaining nuts and sprocket cover.
2. From the bottom of gear case, turn adjustment screw (A) clockwise to decrease oil volume – counterclockwise to increase oil volume.

### **NOTE**

Very little visible oil on the saw chain will provide sufficient lubrication.

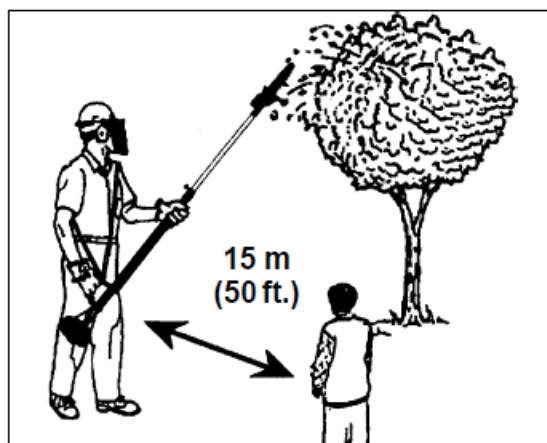
### **EQUIPMENT CHECK**

Before operation, a complete check of the unit must be performed;



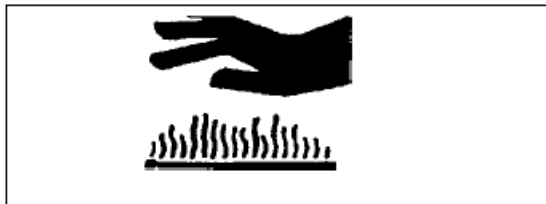
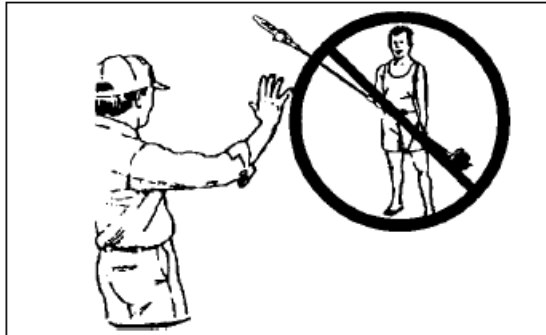
- Check unit for loose/missing nuts, bolts and screws. Tighten and/or replace as needed.
- Inspect fuel lines, tank and area around carburetor for fuel leaks. DO NOT operate the unit if leaks are found.
- Check that the cutting attachment is firmly attached and the saw chain is correctly tensioned on the guide bar. Dull, loose, or damaged saw chains should not be used. Refer to page 29 for the correct Filing Saw Chain procedures.
- Check that the shoulder harness is adjusted for safe, comfortable operation. See the figure at right for proper adjustment.

## DETERMINE OPERATION AREA



- Before starting the unit, equip yourself and fellow workers in the 15 mV (50 ft.) safety zone with the required protective equipment and clothing.
- Review the area to be trimmed. Look for hazards that could contribute to unsafe conditions such as overhead electrical lines or dead branches.
- Spectators, children and animals must be prevented from coming nearer than 15 m (50 ft.) while the pruner is in use.

## OPERATION



## WARNING DANGER

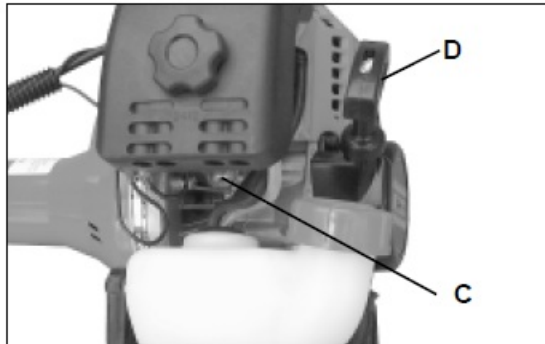
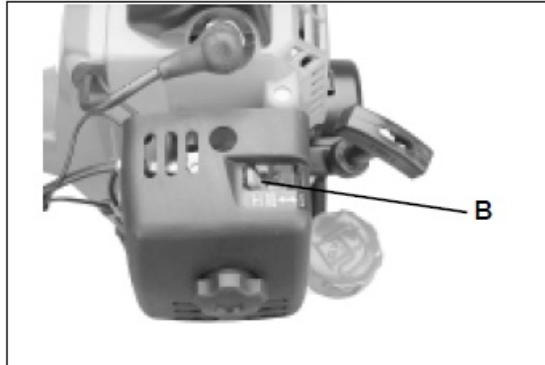
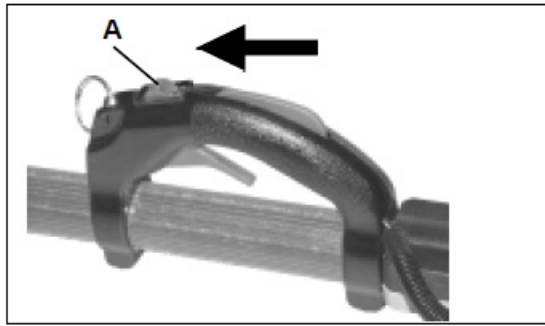
Do not operate this product indoors or in inadequately ventilated areas. Engine exhaust contains poisonous emissions which can cause serious injury or death.

- Provide all operators of this equipment with the Operator's Manual, and instructions for safe operation.
- Before starting the unit, equip yourself and any other person working within the 15m (50 ft.) Safety Zone with the required Protective Equipment and clothing.
- Always evaluate the area being cut for overhead hazards, such as dead branches which may fall and strike the operator or helpers.
- Be aware of branches bouncing when striking the ground.
- Larger branches should be removed in sections.
- During operation, the complete unit, especially the power head, muffler cover area and cutting attachment may become very hot, too hot to touch. Avoid contact during and immediately after the operation. Always keep the exhaust area clear of flammable debris

## STARTING COLD ENGINE

### WARNING DANGER

The cutting attachment should not move at idle. If cutting attachment moves, readjust the carburetor according to the "Carburetor Adjustment" instructions in this manual or see your ECHO Dealer, otherwise serious personal injury may result.



1. Stop Switch – Start/Run. Move stop switch button (A) forward away from the STOP position.
2. Choke – Cold Start. Move choke (B) to “Cold Start” Position.
3. Primer Bulb -Purge. Pump primer bulb (C) until fuel is visible and flows freely in the clear fuel tank return line. Pump bulb an additional 4 or 5 times.

#### **WARNING DANGER**

Inspect starting area for hazards such as rocks, glass, debris etc. which could be contacted by the cutting attachment when starting. Keep helpers and bystanders at least 15 m (50 ft.) from starting area, otherwise serious personal injury may result.

4. Lay the pruner on a flat clear area. Firmly grasp the right-hand grip and pull recoil starter handle/rope (D) until engine fires (or a maximum five [5] pulls).
5. Move choke lever to “Run” position and pull recoil starter handle/ rope (D) until engine starts and runs. Allow unit to warm up at idle for several minutes

#### **NOTE**

If the engine does not start with choke in “Run” position after 5 pulls, repeat the instructions.

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

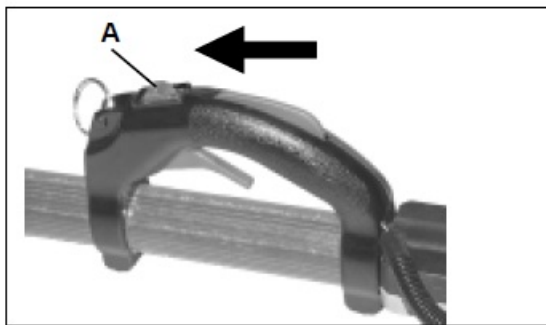


## STARTING WARM ENGINE

### WARNING DANGER

The cutting attachment should not move at idle. If cutting attachment moves, readjust carburetor according to "Carburetor Adjustment" instructions in this manual or see your ECHO Dealer, otherwise serious personal injury may result.

1. \Stop Switch – Start/Run. Move Stop Switch button (A) forward away from the STOP position.
2. Start – Pull Rope. Lay the pruner on a flat clear area and pull the recoil starter handle (D) until the engine fires.



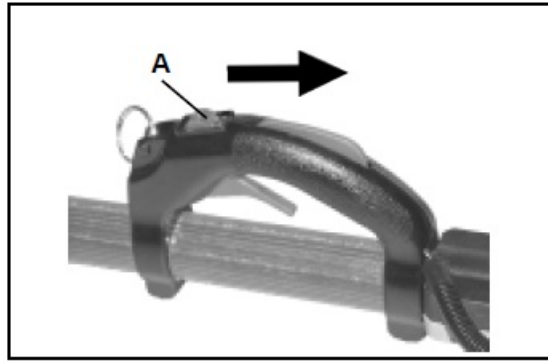
### NOTE

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

## STOPPING ENGINE

1. Release Throttle. Allow engine to idle for a minute.
2. Stop Switch – Stop. Move stop switch button (A) backward to STOP position.



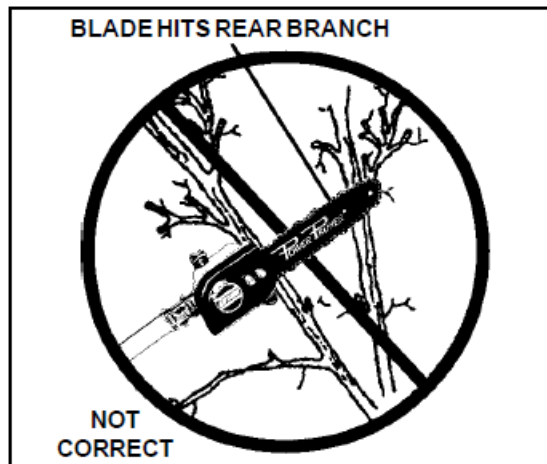
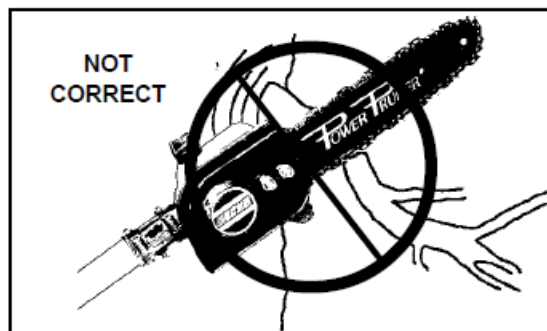
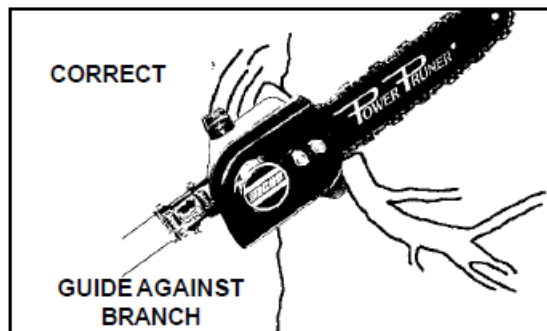


### **WARNING DANGER**

If engine does not stop when stop switch is moved to STOP position, close choke – COLD START position – to stall engine. Have your ECHO dealer repair stop switch before using pruner again.

### **PRUNING TECHNIQUES**

The Power Pruner™ is designed for light to medium trimming of limbs and branches up to 203 mm (8 in.) in diameter. Follow these tips for successful operation.



- Plan cut carefully. Check direction branch will fall.
- Plan retreat path from falling branch. Cut branches bounce when striking ground.

- Long branches should be removed in several pieces.
- Do not stand directly beneath branch being cut.
- When ready to cut: Hold “cutting shoe” against branch. This will prevent whipping of the branch. DO NOT use back and forth sawing action.
- Look out for branch immediately behind the branch being cut. If saw chain hits rear branch damage to saw chain may occur.
- Accelerate to full throttle.
- Apply cutting pressure.
- Ease cutting pressure when nearing end of cut to maintain control.
- When pruning a limb 102 mm (4 in.) in diameter or larger cut as follows:
  - Under cut 1/4 limb diameter near tree trunk.
  - Finish top cut slightly farther out on limb.
  - Flush cut stub at trunk.
- DO NOT use for felling or bucking.

## **NOTE**

Refer to Pole Pruner Safety Manual for proper and safe pruning techniques.

## **MAINTENANCE**

Your ECHO Power Pruner™ is designed to provide many hours of trouble-free service. Regularly scheduled maintenance will help your pruner 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.

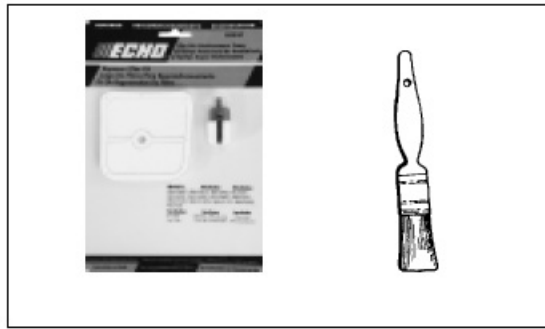
## **SKILL LEVEL**

- 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**

### **AIR FILTER**



#### Level 1.

Tools required: 25 or 50 mm (1 or 2 in.) medium bristle paint brush

Parts required: 90030 REPOWER™ FILTER KIT

1. Close choke (Cold Start Position). This prevents dirt from entering the carburetor's 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 the element is fuel soaked and very dirty, replace.
3. If element can be cleaned and reused, be certain it: -properly fits the cavity in the air cleaner cover. -is installed with the original side out

#### **NOTE**

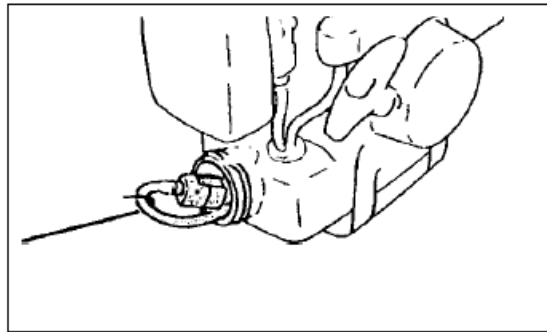
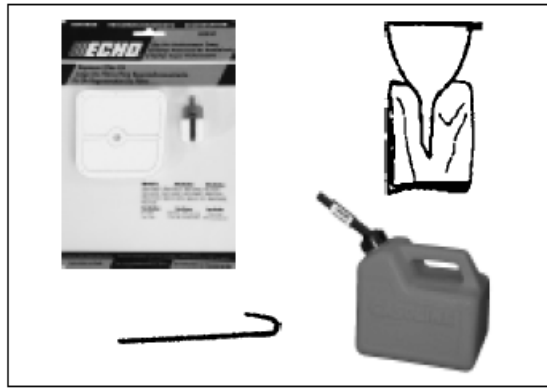
Carburetor adjustment may be needed after air filter cleaning/ replacement. See Carburetor Adjustment Section.

### **FUEL FILTER**

#### Level1.

Tools required: 203-254 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™ FILTER KIT



### **WARNING DANGER**

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

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

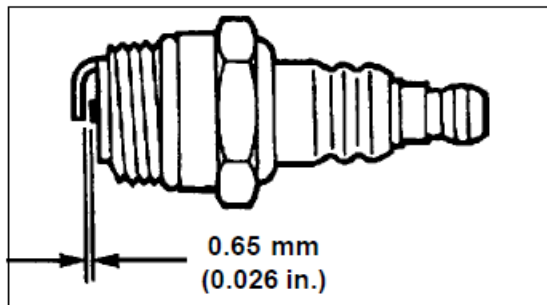
### **WARNING DANGER**

Do not perform maintenance on the muffler until the engine and muffler are completely cool, otherwise serious personal injury may occur.

### **SPARK PLUG**

Level2.

Tools required: 10x19mm (13/32x3/4in) T-wrench, Feeler gauge, (preferably a wire gauge), Soft metal brush  
Parts Required: 90065 REPOWER™ KIT



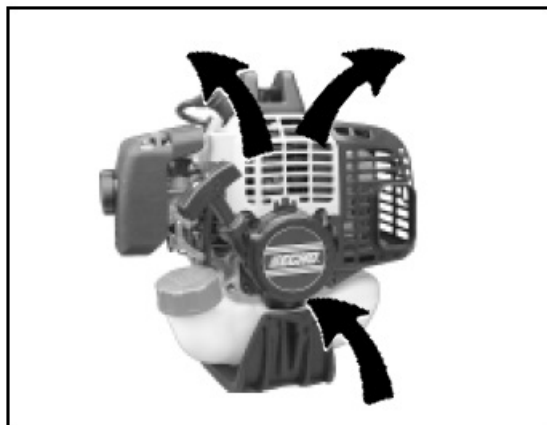
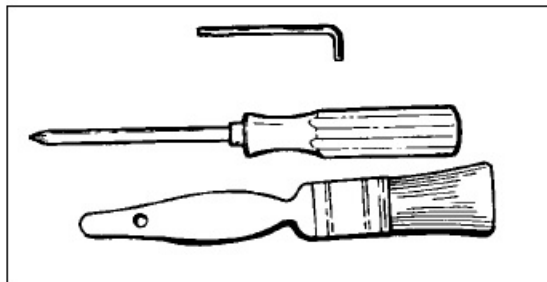
1. Remove the spark plug and check for fouling, worn and rounded center electrode.
2. Clean the plug or replace with a new one. DO NOT sand blast to clean. The remaining sand will damage engine.
3. Adjust the spark plug gap by bending outer electrode.
4. Tighten the spark plug to 145-155 kg/cm (125-135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

## COOLING SYSTEM CLEANING

Level2.

Tools required: Cross Head Screwdriver, 3 mm Hex wrench, 25 or 50 mm (1 or 2 in.) medium bristle paint brush

Parts Required: None.



## IMPORTANT

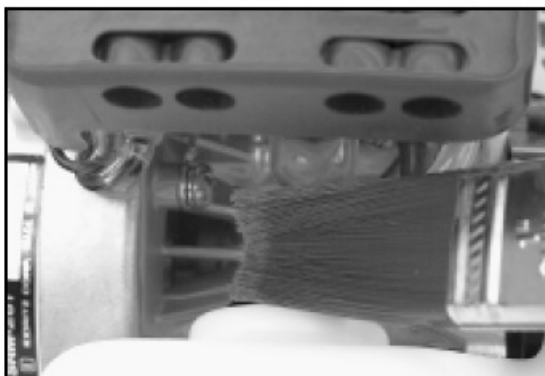
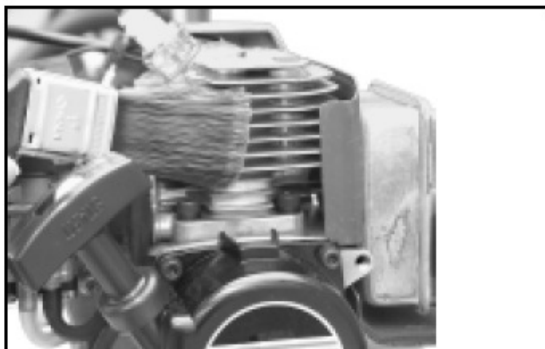
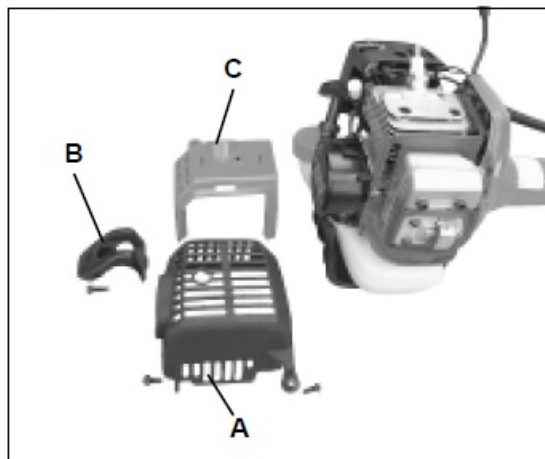
To maintain proper engine operating temperatures, cooling air must pass freely through the cylinder fin area. This flow of air carries combustion heat away from the engine.

### Overheating and engine seizure can occur when:

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

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

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

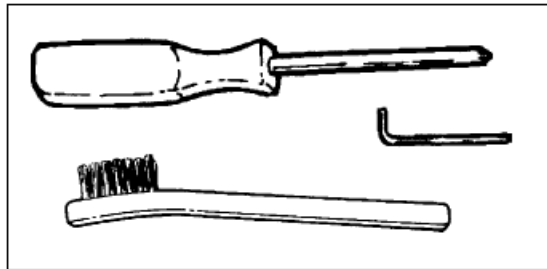


## IMPORTANT

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

5. Use brush to remove dirt from the cylinder fins.
6. Remove grass and leaves from the grid between the recoil starter and fuel tank.

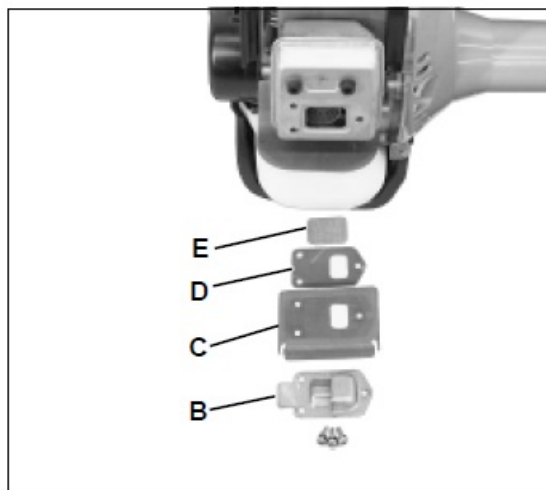
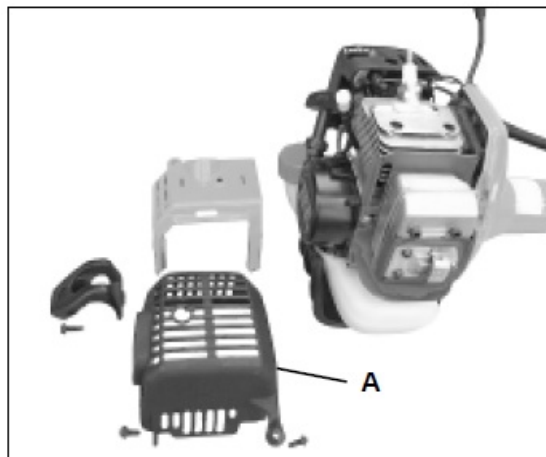
## EXHAUST SYSTEM



Level 3.

- Tools Required: Cross Head Screwdriver, Soft Metal Brush, 4 mm Hex Wrench
- Parts Required: Spark Arrestor Screen P/N 14586251030

### Spark Arrestor Screen



1. Remove 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), gasket (D) and screen (E) from muffler body.

4. Clean carbon deposits from screen and muffler components.

#### **NOTE**

When cleaning carbon deposit, be careful not to damage the catalytic body.

5. Replace screen if it is cracked, plugged or has holes burned through.
6. Assemble components in reverse order.

### **Cylinder Exhaust Port**

Level 3.

#### **IMPORTANT**

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

## **CARBURETOR ADJUSTMENT**

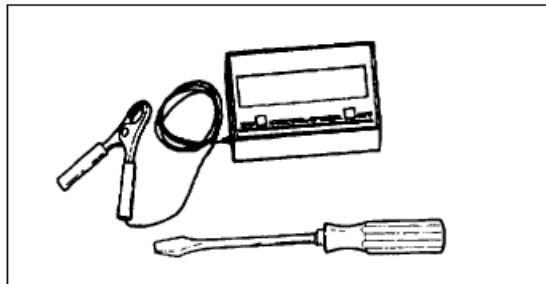
### **Engine Break-In**

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

### **High Altitude Adjustment**

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

Level 2.



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

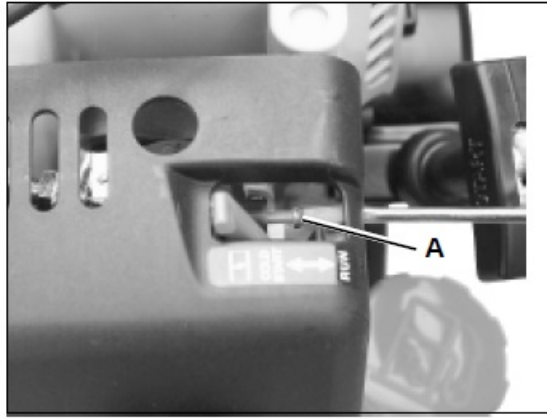
Parts required: None.

#### **NOTE**

Every unit is run at the factory and the carburetor is set in compliance with EPA 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 13 "Specifications" of this manual. Turn idle screw (A) clockwise to increase idle speed; counter clockwise to decrease idle speed.





### **WARNING DANGER**

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

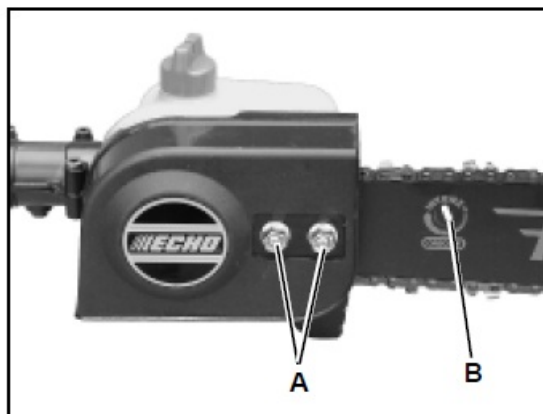
### **GUIDE BAR AND SAW CHAIN REPLACEMENT**

#### **WARNING DANGER**

Never try to replace or adjust guide bar and saw chain with engine running. Always disconnect spark plug wire before servicing guide bar and saw chain. This saw chain is VERY sharp, wear heavy gloves to protect your hands when handling it. Wear eye protection meeting CE or ANSI specification Z87.1.

Guide Bar Replacement / Installation

Level 2



Tools Required: 10 mm (13/32 in.) Wrench, Screwdriver

- Remove two (2) 10 mm (13/32 in.) guide bar nuts (A) and relieve saw chain tension turning adjuster slot (B) counterclockwise.
- Remove sprocket cover.
- Free saw chain from the sprocket and remove from guide bar. If guide bar is okay proceed to saw chain installation.
- Slide guide bar forward and remove from cutting attachment. Install new guide bar sliding it onto the cutting attachment as far as possible. Saw Chain Installation

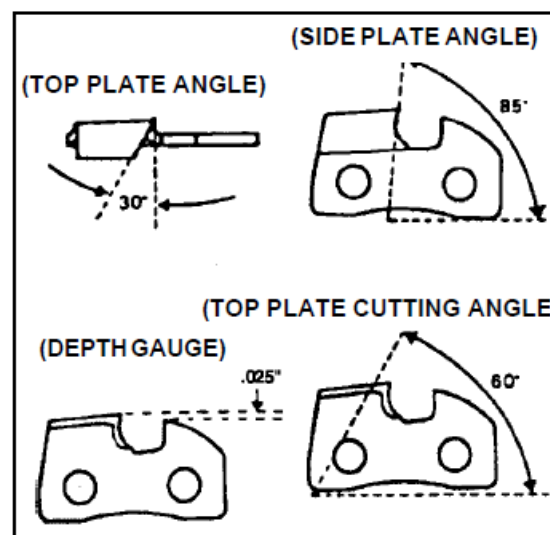
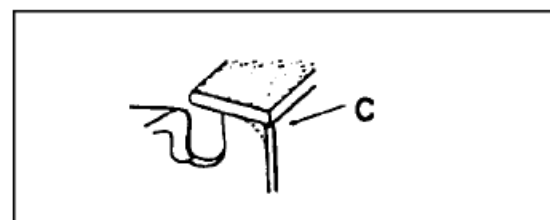
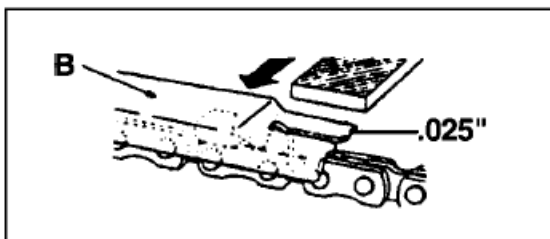
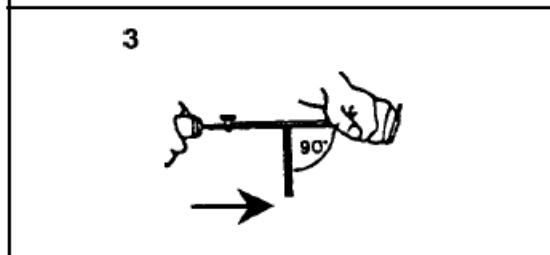
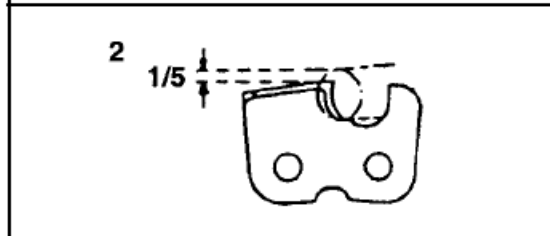
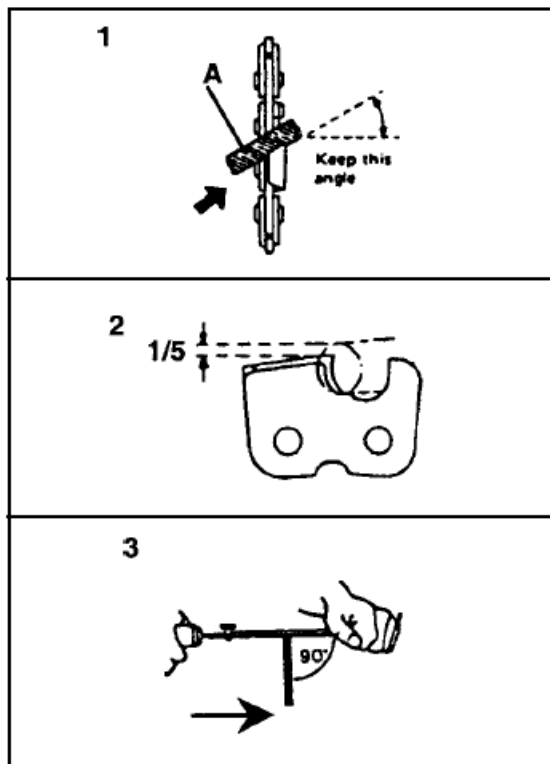
Level 2

- Install new saw chain onto guide bar. Make sure cutting links are faced towards the nose of the guide bar.
- Engage saw chain with sprocket.
- Secure sprocket cover with (2) two guide bar nuts.
- Follow instruction for adjusting saw chain tension page 16.

## FILING SAW CHAIN

Level 3.

Tools required: 4.5 mm round File P/N 89751001130; Flat File P/N 89751100230; Depth Gauge P/N 89751400232.



## IMPORTANT

Dull or damaged cutters will result in poor cutting performance, increased vibration, and premature saw chain failure.

## WARNING DANGER

Always stop the engine and disconnect spark plug wire before servicing guide bar and saw chain. Always wear gloves when filing saw chains, otherwise serious personal injury may result.

1. Set round file (A) in cutter at 30° angle. One-fifth (1/5) of the file should be exposed above top cutter edge.
2. Keep file horizontal in cutter and file in one direction.
3. File until cutter top and side bevel edges are sharp without nicks.
4. Place depth gauge tool (B) firmly on top of cutter with a .025" slot and end against front cutter raker. File cutter raker with flat file until flush with top of depth gauge.
5. Finish cutter sharpening by rounding front raker edge (C) with flat file.
6. Properly filed cutter is as shown.
7. Apply clean oil and rotate saw chain slowly to wash away filings.
8. If saw chain is coated or clogged with resin, clean in kerosene then soak in oil.

## TROUBLESHOOTING

Problem			Cause	Remedy
Engine – starts hard				
Engine – does not start			Cause	Remedy
Engine Cranks	Fuel at carburetor	No fuel at carburetor	Fuel strainer clogged Fuel line clogged Carburetor	Clean Clean See your ECHO dealer
	Fuel at cylinder	No fuel at cylinder	Carburetor	See your ECHO dealer
		Muffler wet with fuel	Fuel Mixture is too rich	Open choke Clean/replace air filter Adjust carburetor See your ECHO dealer
	Spark at end of plug wire	No spark at end of plug wire	Stop switch off Electrical problem Interlock switch	Turn switch on See your ECHO dealer See your ECHO dealer
	Spark at plug	No spark at plug	Spark gap incorrect Covered with carbon Fouled with fuel Spark plug defective	Adjust 0.65mm (0.026in.) Clean or replace Clean or replace Replace plug
Engine does not crank			Internal engine problem	See your ECHO dealer
Engine runs	Dies or accelerates poorly		Air filter dirty Fuel filter dirty Fuel vent plugged Spark plug Carburetor Cooling system plugged Spark arrestor screen plugged	Clean or replace Replace Replace Clean and adjust/replace Adjust Clean Clean

## WARNING

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

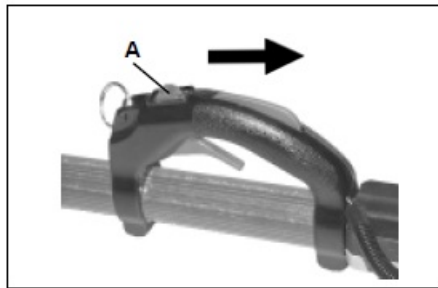
### DANGER

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.



### DANGER

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

2. Place the stop switch (A) 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.) (1/2 tablespoon) of fresh, clean, two-stroke engine oil into the cylinder through the spark plug hole.
  1. MPlace a clean cloth over the spark plug hole.
  2. Pull the recoil starter handle 2-3 times to distribute the oil inside the engine.
  3. 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).
9. Install the guide bar cover on guide bar and saw chain.

### **SERVICING INFORMATION PARTS**

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

Model No. \_\_\_\_\_ SN. \_\_\_\_\_



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

**CONSUMER PRODUCT  
SUPPORT**  
**1-800-673-1558**  
**8 - 5 Mon - Fri C.S.T.**



### **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 8:00 am to 5:00 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](http://www.echo-usa.com)

usa.com. Registering provides a direct link between you and ECHO if we find it necessary to contact you.

### ADDITIONAL OR REPLACEMENT MANUALS

Safety Manuals in English/Spanish or English/French are available, free of charge, from your ECHO dealer or at [www.echo-usa.com](http://www.echo-usa.com).

### Operator's and Parts Manuals are available by:

- Downloading free from [www.echo-usa.com](http://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 above. Safety Videos are available from your Echo dealer. A \$5.00 shipping charge will be required for each video.

### Available Parts Catalog

PTT-260 S/N 003001001 & UP Part Number 99922203284

ECHO, INCORPORATED  
400 OAKWOOD ROAD  
LAKE ZURICH, IL 60047


[www.echo-usa.com](http://www.echo-usa.com)

DEALER? Call 1-800-432-ECHO or



[www.echo-usa.com](http://www.echo-usa.com)

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## Documents / Resources

	<p><a href="#">ECHO PPT-260 Power Pruner</a> [pdf] Instruction Manual PPT-260 Power Pruner, PPT-260, Power Pruner, Pruner</p>
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## References

-  [Outdoor Power Equipment & Tools | ECHO](#)
-  [Manual-Hub.com - Free PDF manuals!](#)
- [User Manual](#)

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