



PPT-2620 / H POWER PRUNER™ *Operator's Manual*

WARNING



Burn Hazard

The muffler or catalytic muffler and surrounding cover may become extremely hot. Always keep clear of exhaust and muffler area, otherwise serious personal injury may occur.

WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

WARNING



Users of this equipment risk injury to themselves and others if the unit is used improperly and/or safety precautions are not followed. Echo provides an operator's manual and a safety manual. Both must be read and understood for proper and safe operation. Failure to do so could result in serious injury.

Note: This product complies with CAN ICES-2/NMB-2.

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.

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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. Keep the manuals in a safe place for future reference.

The operators manual contains specifications and information for safety, operation, maintenance, storage and assembly specific to this product. Scan the QR codes throughout the operator's manual for more information.

The safety manual explains possible hazards and the measures you should take to insure safe operation.

SERVICING INFORMATION

Parts/Serial Number

Genuine ECHO Parts and Assemblies for your ECHO products are available only from an Authorized ECHO Dealer. When you do need to buy parts always have the Model Number and Serial Number of the unit with you. For future reference write them in the space provided below.

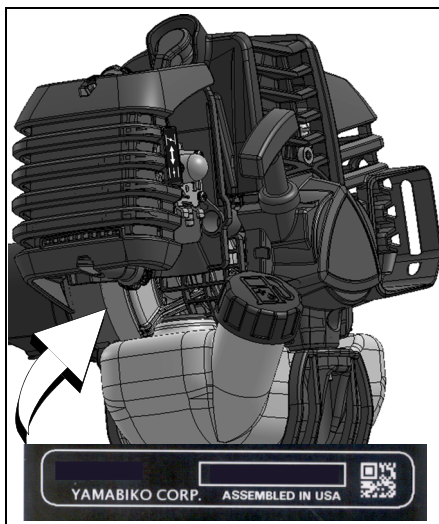
Model No. _____

Serial No. _____

Service

Service of this product during the warranty period must be performed by an Authorized ECHO Service Dealer. For the name and address of the Authorized ECHO Service Dealer nearest you, ask your retailer or call:

1-800-432-ECHO (3246). Dealer information is also available on our Web Site. www.echo-usa.com. When presenting your unit for Warranty service/repairs, proof of purchase is required.



Echo Consumer Product Support

If you require assistance or have questions concerning the application, operation, or maintenance of this product, call the ECHO Consumer Product Support Department at 1-800-673-1558 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.

Product Registration

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

Additional or Replacement Manuals

Replacement Operator or Safety Manuals, and Parts Catalogs, are available from your Authorized ECHO Service Dealer, or at www.echo-usa.com, or by contacting ECHO Inc., 400 Oakwood Road, Lake Zurich, IL 60047 (800-673-1558). Always check www.echo-usa.com for updated information.



Safety Videos are available from your Authorized ECHO Service Dealer. A \$5.00 shipping charge is required for each video.

SAFETY

Manual Safety Symbols and Important Information

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

DANGER

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

⚠ WARNING

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

⚠ CAUTION

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

NOTICE

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

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

















CIRCLE AND SLASH SYMBOL

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

International Symbols

Symbol	Description	Symbol	Description
	Warning, See Operator's Manual	H	Carburetor Adjustment - High Speed Mixture
	Wear Eye, Ear and Head Protection	T	Carburetor Adjustment - Idle Speed
	Wear Hand and Foot Protection	L	Carburetor Adjustment - Low Speed Mixture
	Safety/Alert		Emergency Stop
	Hot Surface		Fuel and Oil Mixture

Symbol	Description	Symbol	Description
	Finger Severing		Do not operate closer than 15 m (50 ft.) from electrical hazard.
	Avoid all power lines. This unit is not insulated against electrical current.		Plan retreat path from falling objects.
	DO NOT Allow Flames or Sparks Near Fuel	Ignition 	Ignition ON / OFF
	DO NOT Smoke Near Fuel		Primer Bulb
	Choke Control "RUN" Position (Choke Open)		Choke Control "COLD START" Position (Choke Closed)
	Wear Slip Resistant Footwear		Chain Lubrication
	Do not operate closer than 15 m (50 ft.) from electrical hazards.		Keep bystanders at least 4.5 m (15 ft.) away.



LOOK BEFORE YOU PUMP!

Ethanol Percentage

0% - 10%	15% - 30% - 50% - 85%
----------	-----------------------

USE E10 OR LESS FUEL

Do not use any fuel containing greater than 10 percent ethanol (E10) in this equipment. It may cause damage or failure and is prohibited by Federal Law.

For Details, see the "Fuel" Section of your Operators Manual

Personal Condition and Safety Equipment

WARNING

Users of this product risk injury to themselves and others if the unit is used improperly and/or safety precautions are not followed. Proper clothing and safety gear must be worn when operating unit.

Physical Condition

Your judgment and physical dexterity may not be good:

- If you are tired or sick
- If you are taking medication
- If you have taken alcohol or drugs

Operate unit only if you are physically and mentally well

Eye Protection

WARNING

- ***Eye protection that meets ANSI Z87.1 or CE requirements must be worn whenever you operate the unit.***
- ***For additional safety, a full-face shield may be worn over safety glasses or goggles to provide protection from sharp branches or flying debris.***

Hand Protection

Wear sturdy, no-slip, rubber work gloves to improve your grip on the handles. Gloves also provide protection against cuts and scratches, cold environments, and reduce the transmission of machine vibration to your hands.

Hearing/Ear Protection

ECHO recommends wearing hearing protection whenever unit is used.

Breathing Protection

Operators who are sensitive to dust or other common airborne allergens may need to wear a dust mask to prevent inhaling these materials while operating unit. Dust masks can provide protection against dust, plant debris, and other plant matter such as pollen. Make sure the mask does not impair your vision, and replace the mask as needed to prevent air restrictions.

Proper Clothing

Wear snug-fitting, durable clothing:

- Pants should have long legs, shirts should have long sleeves.
- DO NOT WEAR SHORTS.
- DO NOT WEAR TIES, SCARVES, JEWELRY, or clothing with loose or hanging items that could become entangled in moving parts or surrounding growth.
- Keep clothing buttoned or zipped, and keep shirt tails tucked in.

Wear sturdy work shoes with nonskid rubber soles:

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

Keep long hair away from engine and air intake. Retain hair with cap or net.

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.

WARNING

The components of this machine generate an electromagnetic field during operation, which may interfere with some pacemakers. To reduce the risk of serious or fatal injury, persons with pacemakers should consult with their physician and the pacemaker manufacturer before operating this machine. In the absence of such information, ECHO does not recommend the use of this machine by anyone who has a pacemaker.

Extended Operation / Extreme Conditions

CAUTION

Prolonged exposure to cold and/or vibration may result in injury. Read and follow all safety and operation instructions to minimize risk of injury. Failure to follow instructions may result in painful wrist/hand/arm injuries.

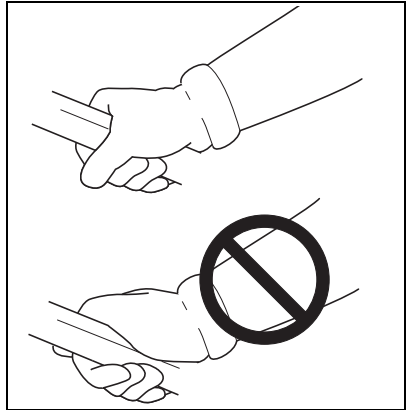
It is believed that a condition called Raynaud's Phenomenon, which affects the fingers of certain individuals, may be brought about by exposure to vibration and cold. Exposure to vibration and cold may cause tingling and burning sensations, followed by loss of color and numbness in the fingers. The following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

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



Repetitive Stress Injuries (RSI)

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.

DANGER

All over head electrical conductors and communications wires can have electricity flow with high voltages. This unit is not insulated against electrical current. Never touch wires directly or indirectly, otherwise serious injury or death may result.

DANGER

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

Read the Manuals

- Provide all users of this equipment with the Operator's Manual and Safety Manual for instructions on Safe Operation.

Clear the Work Area

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

Use Proper Clothing & Equipment

- Always wear head protection with full face shield to help protect against falling branches and debris.

Keep a Firm Grip

- Always hold throttle handle and support handle with thumbs and fingers tightly encircling the handles.

Keep a Solid Stance

- Maintain footing and balance at all times. Do not stand on slippery, uneven or unstable surfaces. Do not work in odd positions or on ladders. Do not over reach.

- 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.
- Plan retreat path from falling objects.
- Cut branches bounce when striking ground.
- Check that shoulder harness is adjusted for safe, comfortable operation.
- Turn the Power Pruner™ off when moving from tree to tree.
- Avoid any contact with saw chain..



Avoid Hot Surfaces

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

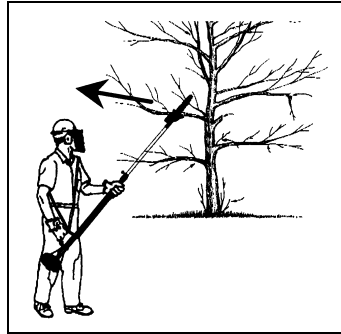


Kickback

WARNING

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.

Equipment

WARNING

Use only ECHO 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.

Guide Bar and Saw Chain

- Check that the cutting attachment, guide bar, and saw chain is firmly attached and in safe operating condition.
- Use only one Echo 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 for storage.

 **WARNING**

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

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

 **WARNING**

Periodically Check fuel system (fuel lines, vent, grommet, fuel tank, and fuel cap) for leaks especially if the unit is dropped. If damage or leaks are found, do not use unit, otherwise serious personal injury or property damage may occur. Have unit repaired by an authorized servicing dealer before using.

EMISSION CONTROL (EXHAUST & EVAPORATIVE)

ENGLISH

CARB And EPA Emissions Control Information

The emission control system for the engine is EM (engine modification) and, if the second to last character of the Engine Family on the Emission Control Information label (sample below) is “B”, “C”, “K”, or “T”, the emission control system is EM and TWC (3-way catalyst). The fuel tank/fuel line emission control system is EVAP (evaporative emissions). Evaporative emissions for California models are only applicable to fuel tanks.

EMISSION CONTROL INFORMATION
 ENGINE FAMILY: EJ1EHXS.0214EQ DISPLACEMENT: 21.2cc
 EMISSION COMPLIANCE PERIOD: 50Hours
 THIS ENGINE MEETS 2013 U.S. EPA EXH/EVP & CALIFORNIA EXH/EVP EMISSION REGULATIONS FOR S.O.R.E. REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.
YAMABIKO CORP. MMM/YYYY 

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

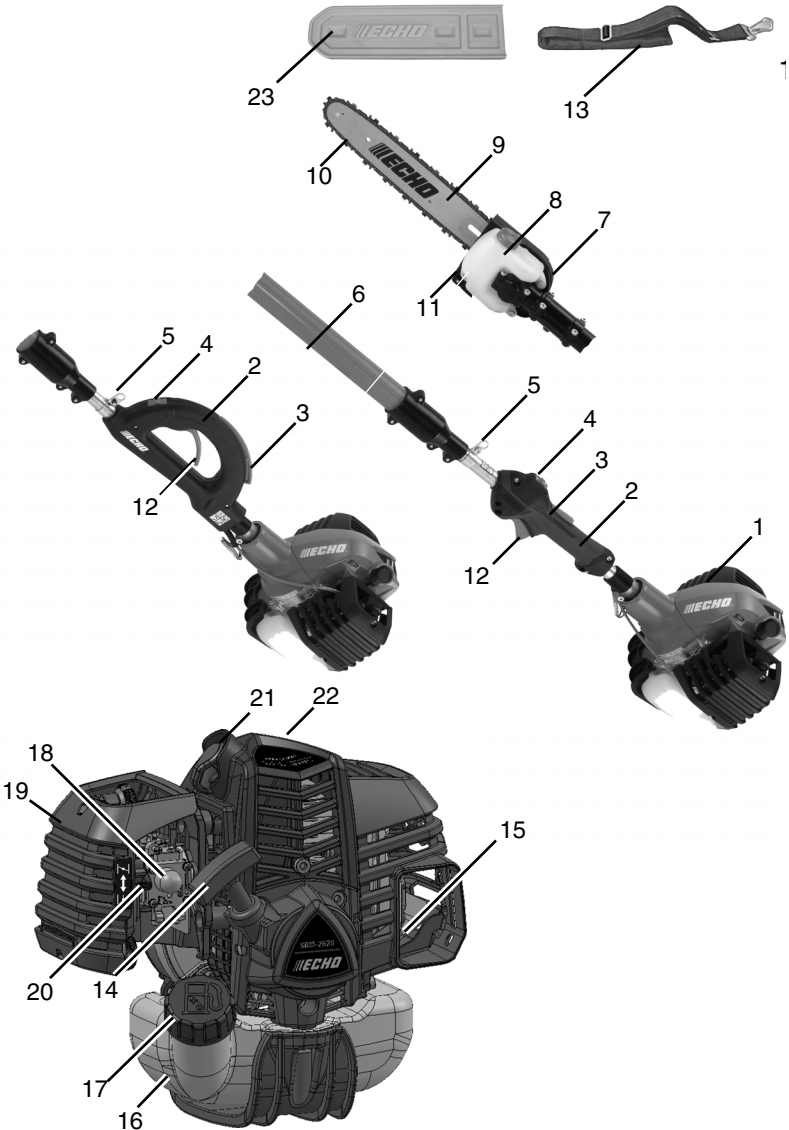
EMISSION CONTROL INFORMATION
 ENGINE FAMILY: CEHX5.0214KL DISPLACEMENT: 21.2cc
 EMISSION COMPLIANCE PERIOD: 300Hours
 THIS ENGINE MEETS 2012 U.S. EPA EXH/EVP & CALIFORNIA EXH/EVP EMISSION REGULATIONS FOR S.O.R.E. REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.
YAMABIKO CORP. MMM/YYYY 

Product Emission Durability (Emission Compliance Period)

The 50 or 300 hour emission compliance period is the time span selected by the manufacturer certifying the engine emissions output meets applicable emissions regulations, provided that approved maintenance procedures are followed as listed in the Maintenance Section of this manual.



DESCRIPTION

Locate the safety decal(s) on your unit. Make sure the decal(s) is legible and that you understand and follow the instructions on it. If a decal cannot be read, a new one can be ordered from your ECHO dealer.





1. **POWER HEAD** - Factory Assembled to the Drive shaft assembly. Includes the Engine, Clutch, Fuel System, Ignition System and Recoil Starter.
2. **THROTTLE HANDLE - FOR RIGHT HAND** - Contains Stop Switch, Throttle Lockout, and Throttle Trigger.
3. **THROTTLE TRIGGER LOCKOUT** - This lever must be held during starting. Operation of the throttle trigger is prevented unless throttle trigger lockout lever is engaged.
4. **STOP SWITCH** - "SLIDE SWITCH" mounted on top of the Throttle Trigger Housing. Move switch FORWARD to RUN, BACK to STOP.
5. **STRAP HOOK** - Used to secure unit to shoulder harness
6. **LOWER SHAFT TUBE** – Durable fiberglass mesh housing.
7. **CUTTING ATTACHMENT** - Sealed, gear ratio is 1.5:1 reduction.
8. **AUTOMATIC OILER ASSEMBLY** - Self oiling. Use high quality, low viscosity, non-detergent bar and chain oil.
9. **GUIDE BAR**
10. **SAW CHAIN** - Chain, serving as a cutting tool.
11. **CUTTING SHOE** - Used to capture and stabilize branch while cutting. Place cutting shoe against branch, accelerate and lower saw chain into branch.
12. **THROTTLE TRIGGER** - Controls engine speed. Spring loaded to return to idle when released. During acceleration, press trigger gradually for best operating technique.
13. **SHOULDER HARNESS** - An adjustable strap that suspends the unit from the operator.
14. **RECOIL STARTER HANDLE** - Pull handle slowly until recoil starter engages, then quickly and firmly. When engine starts return handle slowly. DO NOT let handle snap back or damage will occur.
15. **SPARK ARRESTOR MUFFLER OR SPARK ARRESTOR MUFFLER WITH CATALYST** - 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** - Covers and seals fuel tank opening.
18. **PURGE BULB** - Pumping purge bulb before starting engine draws fresh fuel from the fuel tank, purging air from the carburetor. Pump purge bulb until fuel is visible and flows freely in the clear fuel tank return line. Pump purge bulb an additional 4 or 5 times.
19. **AIR CLEANER ASSEMBLY** - Contains replaceable air filter element.
20. **CHOKE** - The choke control is located at the rear of the air cleaner housing. Move choke lever to COLD START () to close choke for cold start. Move choke lever to "RUN" () position to open choke.
21. **SPARK PLUG** - Provides spark to ignite fuel mixture.
22. **TOP GUARD** - Provides arm rest during operation and protects arm from hot engine.
23. **GUIDE BAR COVER** - Used to cover guide bar and saw chain during transport and storage. Remove guide bar cover before using unit.

CONTENTS

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

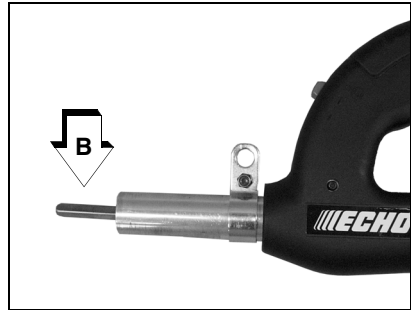
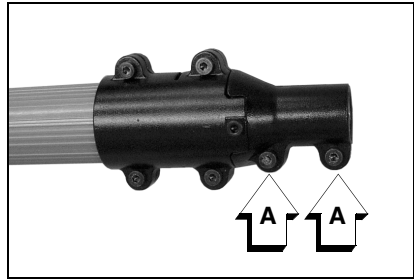
After opening the carton, check for damage. Immediately notify your retailer or ECHO Dealer of damaged or missing parts. Use the contents list to check for missing parts.

- ___ 1 Power Head / Handle assembly
- ___ 1 Drive Shaft Assembly
- ___ 1 Cutting Attachment with Guide Bar & Saw Chain
- ___ 1 Operator's Manual
- ___ 1 Safety Manual
- ___ 1 Warranty Statement
- ___ 1 Safety Glasses
- ___ 1 Shoulder Harness
- ___ 1 Guide Bar Cover

ASSEMBLY

Drive Shaft/Handle Assembly

1. Remove protective caps from handle assembly.
2. Loosen clamping bolts (A) on drive shaft.
3. Pull flexible drive shaft coupler (B) 2-3 inches out of handle assembly.
4. Align flexible drive shaft coupler with drive shaft socket and slide together until handle assembly is fully seated into drive shaft.
5. Tighten clamping bolts (A).

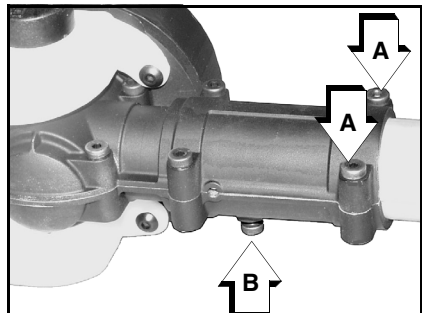


Cutting Attachment to Drive Shaft Installation

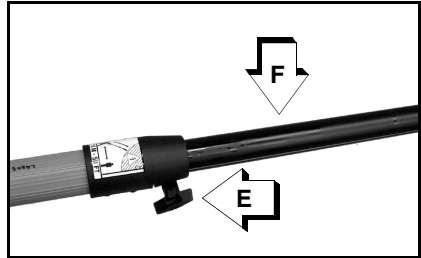
! WARNING

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

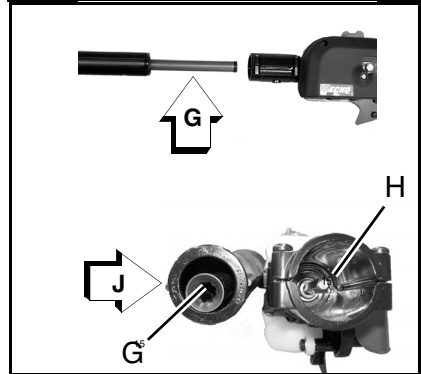
1. Loosen the two (2) screws (A) and remove locator screw (B) on cutting attachment.



- 2. Loosen clamp knob (E) turning counterclockwise.



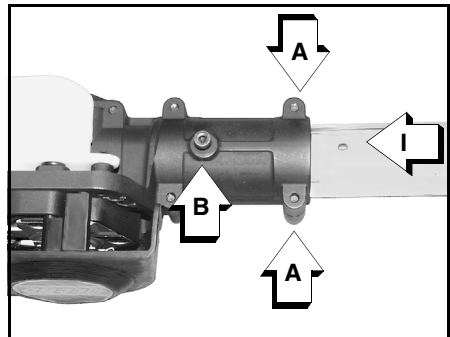
- 3. Pull upper tube (F) out of fiberglass lower tube 127-152 mm (5-6 in.), then slide (F) back into fiberglass lower tube exposing inner drive shaft (G). Align and join star shaped drive end of inner drive shaft (G) with cutting attachment shaft (H).



- 4. Align ridges (J) on upper tube with seams in cutting attachment.
- 5. Slide together, aligning locator hole (D) in cutting attachment with locating hole (I) in upper tube.

- 6. Install and tighten locator screw (B). Tighten two (2) cutting attachment screws (A).

- 7. Extend upper tube to desired length. Tighten clamp knob (E) turning clockwise.

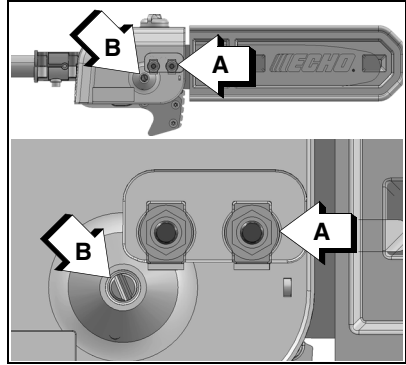


Saw Chain Adjustment

WARNING

Always disconnect spark plug wire before servicing cutting attachment. Wear gloves when handling saw chain, otherwise serious personal injury may result.

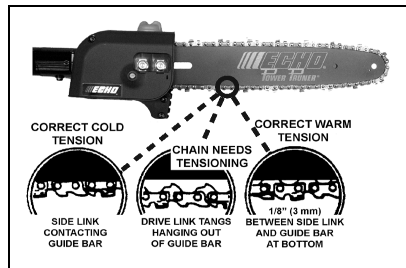
1. Move stop switch to STOP position.
2. Disconnect spark plug lead.
3. Loosen two guide bar nuts (A) until finger tight.



NOTICE

Always loosen guide bar nuts before turning the chain tension adjuster, otherwise the clutch cover and tensioner will be damaged.

4. Hold the bar nose up, and turn the adjuster screw (B) clockwise until the chain fits snugly against the underside of the bar, as shown. Cold Chain Only - turn adjuster screw CW an additional 1/8 - 1/4 turn.
5. Tighten both guide bar nuts with nose held up. Tighten rear nut first.
6. Pull the chain around the guide bar by hand. Reduce the chain tension if you feel tight spots.
7. When chain is properly tensioned, tighten guide bar nuts securely.



NOTICE

Tighten guide bar nuts to 8 - 9 N•m (71 - 80 in. lbs.). DO NOT over-tighten nuts or damage may result.

8. Keep chain properly tensioned at all times.
Note: All chains require frequent adjustment.
9. Connect spark plug lead.

OPERATION

WARNING

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

WARNING

Operation of this equipment may create sparks that can start fires around dry vegetation. This unit is equipped with a spark arrestor to prevent discharge of hot particles from the engine. Metal cutters can also create sparks if the cutter strikes rocks, metal, or other hard objects. Contact local fire authorities for laws or regulations regarding fire prevention requirements.

Fuel

WARNING

Diesel fuels and alternative fuels, such as E-15 (15% ethanol), E-85 (85% ethanol) or any fuels not meeting ECHO requirements are NOT approved for use in ECHO 2-stroke gasoline engines. Use of diesel or alternative fuels may cause performance problems, loss of power, overheating, fuel vapor lock, and unintended machine operation, including, but not limited to, improper clutch engagement. Diesel or alternative fuels may also cause premature deterioration of fuel lines, gaskets, carburetors and other engine components.

Fuel Requirements

Gasoline - Use 89 Octane [R+M/2] (mid grade or higher) gasoline known to be good quality. Gasoline may contain up to 10% Ethanol (grain alcohol) or 15% MTBE (methyl tertiary-butyl ether). Gasoline containing methanol (wood alcohol) is **NOT** approved. ECHO Red Armor Fuel™ (Power Fuel™) is 93 octane, ethanol-free fuel premixed with ECHO Red Armor® engine oil at 50:1 ratio. Use of ECHO Red Armor Fuel™ (Power Fuel™) is recommended to extend engine life in all air-cooled 2-stroke and 2/4-stroke hybrid engines.

Two Stroke Oil - A two-stroke engine oil meeting ISO-L-EGD (ISO/CD 13738) and J.A.S.O. FD Standards must be used. Echo brand 2-stroke oils meet these standards. Engine problems due to inadequate lubrication caused by failure to use an ISO-L-EGD (ISO/CD 13738) and J.A.S.O. M345-FD certified oil, such as Echo brand 2-stroke oils, will void the two-stroke engine warranty.

NOTICE

Echo brand 2-stroke oils may be mixed at 50:1 ratio for application in all Echo engines sold in the past regardless of ratio specified in those manuals.

Handling Fuel

DANGER

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

- **Use an approved fuel container.**
- **DO NOT smoke near fuel.**
- **DO NOT allow flames or sparks near fuel.**
- **Fuel tanks/cans may be under pressure. Always loosen fuel caps slowly allowing pressure to equalize.**
- **NEVER refuel a unit when the engine is HOT or RUNNING!**
- **DO NOT fill fuel tanks indoors. ALWAYS fill fuel tanks outdoors over bare ground.**
- **DO NOT overfill fuel tank. Wipe up spills immediately.**
- **Securely tighten fuel tank cap and close fuel container after refueling.**
- **Inspect for fuel leakage. If fuel leakage is found, do not start or operate unit until leakage is repaired.**
- **Move at least 3 m (10 ft.) from refueling location before starting the engine.**

Mixing Instructions

1. Fill an approved fuel container with half of the required amount of gasoline.
2. Add the proper amount of 2-stroke oil to gasoline.
3. Close container and shake to mix oil with gasoline.
4. Add remaining gasoline, close fuel container, and remix.

Fuel to Oil Mix – 50:1 Ratio			
US		Metric	
Gas	Oil	Gas	Oil
Gallons	Oz.	Liter	CC.
1	2.6	5	100
2	5.2	10	200
5	13	25	500

NOTICE

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.

- Empty the fuel tank prior to storing the unit. Return unused fuel to an approved fuel storage container.



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

NOTICE

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.

NOTICE

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

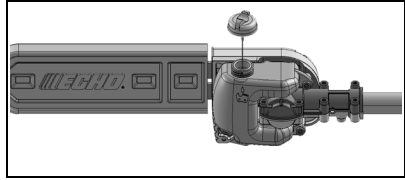
NOTICE

Used oil and gasoline, and soiled towels are hazardous waste materials. Disposal laws vary by locality.

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 reservoir with a quality, low viscosity guide bar and saw chain oil.



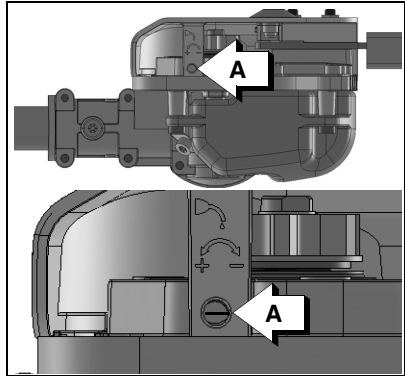
NOTICE

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

Adjusting Automatic Oiler

1. From bottom of gear case, turn adjustment screw (A) clockwise to decrease oil volume, or counterclockwise to increase oil volume.

Note: The automatic oiler is preset to deliver a sufficient oil discharge volume during normal operating conditions. During heavy or dry cutting conditions, the oil discharge volume may be increased to assure adequate lubrication. If oil is leaking from the bar cover area, reduce the oil discharge volume. Refill the oil reservoir with each tank of fuel.



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

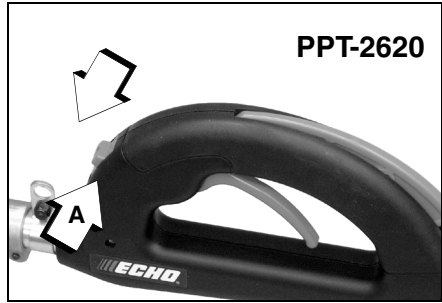
Starting Cold Engine

WARNING


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

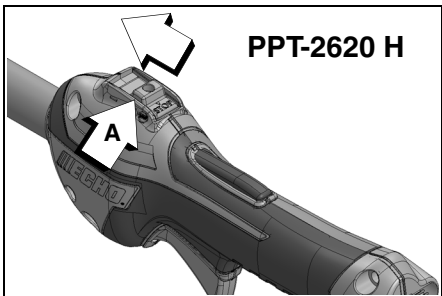
1. *Stop Switch*

Move stop switch button (A) forward, away from the STOP position.



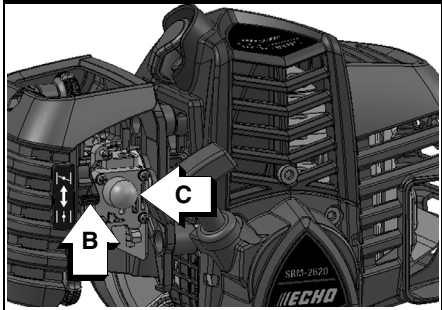
2. *Choke*

Move choke lever (B) to COLD START () position.



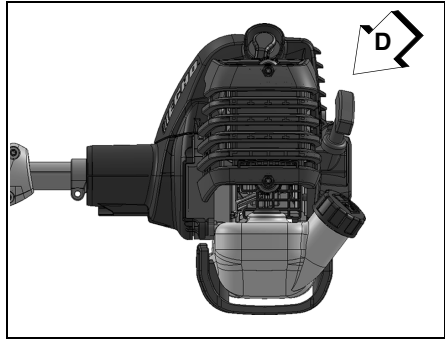
3. *Purge Bulb*

Pump purge bulb (C) until fuel is visible and flows freely in the clear fuel tank return line. Pump bulb an additional 4 or 5 times.



4. *Recoil Starter*

Lay the unit on a flat area and keep movable attachment parts clear of all obstacles. Firmly grasp throttle handle and throttle trigger lockout with left hand and fully depress throttle trigger to wide open position. Rapidly pull recoil starter handle/rope (D) until engine fires (or maximum five [5] pulls).

5. *Choke*

After engine fires (or 5 pulls), move choke (B) to the RUN (| ↓ |) (open) position. Firmly grasp throttle handle and throttle trigger lockout with left hand and fully depress throttle trigger to wide open position. Pull starter handle/rope until engine starts and runs. Release throttle trigger and allow unit to warm up at idle for several minutes.

Note: If engine does not start with choke in “RUN” position after 5 pulls, repeat instructions 2 - 5.

6. *Throttle Trigger*

After engine warm-up, grip throttle handle and support handle. Depress the throttle trigger lockout, and gradually depress throttle trigger to increase engine RPM to operating speed.

Starting Warm Engine

The starting procedure is the same as Cold Start except DO NOT close the choke, and do not hold throttle trigger fully depressed.

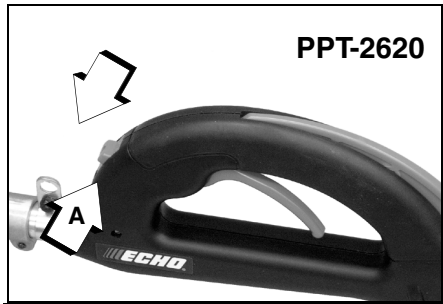
WARNING

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

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

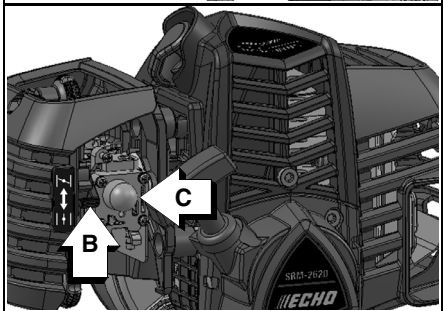
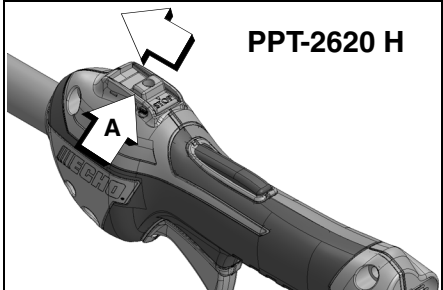
1. *Stop Switch*

Move stop switch button (A) forward away from the STOP position.



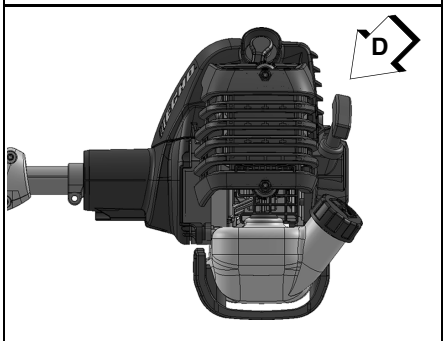
2. *Purge Bulb*

Pump purge bulb (C) until fuel is visible in the “Clear” fuel return line. 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. Firmly grip throttle handle and throttle trigger lockout with left hand. Rapidly pull recoil starter handle/rope (D) until engine fires.

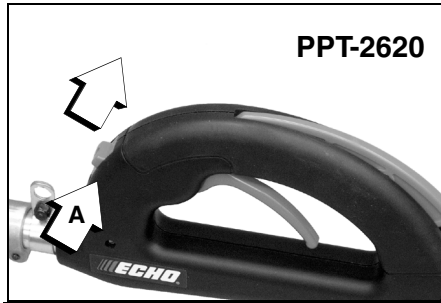


Note: If engine does not start after 5 pulls, use Cold Start Procedure.

Stopping Engine

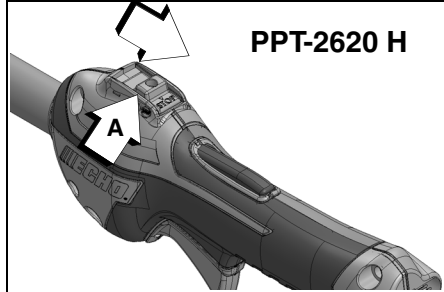
1. Throttle

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



2. Stop Switch

Move stop switch button (A) backward to STOP position.



WARNING

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

Pruning Techniques

Shoulder Harness (if included)

Your harness may appear different than the harness shown.

1. Loosen the harness clamp screw.
2. Put the harness on and attach it to the unit.
3. Adjust the harness for comfortable operation.
4. Tighten the harness clamp screw.



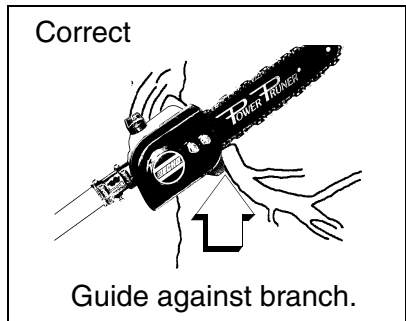
ENGLISH

⚠ WARNING

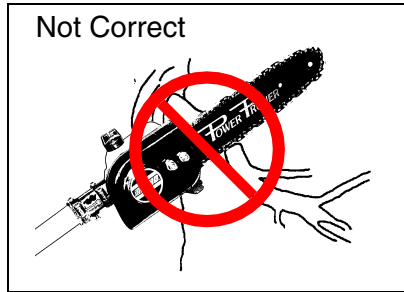
Engine exhaust IS HOT, and contains Carbon Monoxide (CO), a poison gas. Breathing CO can cause unconsciousness, serious injury, or death. Exhaust can cause serious burns. ALWAYS position unit so that exhaust is directed away from your face and body.

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

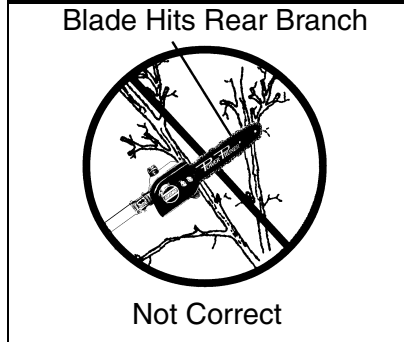
- Plan cut carefully. Check direction branch will fall.
- Plan retreat path from falling branch. Cut branches bounce when striking ground.
- Long branches should be removed in several pieces.
- Do not stand directly beneath branch being cut.



- When ready to cut: Hold the cutting shoe against the branch. This will prevent whipping of the branch. **DO NOT** use back and forth sawing action.



- Look out for branches immediately behind the branch being cut. If saw chain hits a rear branch damage to the saw chain and guide bar may occur.



- Accelerate to full throttle.
- Ease cutting pressure when nearing end of cut to maintain control
- When pruning a limb 102 mm (4 in.) diameter or larger cut as follows:
 1. Under cut 1/4 limb diameter near tree trunk.
 2. Finish top cut slightly farther out on limb.
 3. Flush cut stub at trunk.
- **DO NOT** use for felling or bucking.

MAINTENANCE

! WARNING

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

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

Skill Levels

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

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

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

Maintenance Intervals

COMPONENT/SYSTEM	MAINTENANCE PROCEDURE	REQ'D SKILL LEVEL
Daily or Before Use		
Air Filter	Inspect/Clean*	1
Choke Shutter	Inspect/Clean *	1
Fuel System	Inspect	1
Cooling System	Inspect/Clean	2
Recoil Starter Rope	Inspect/Clean*	1
Screws/Nuts/Bolts	Inspect/Tighten/Replace*	1
Guide Bar/Sprocket Nose	Inspect/Clean/Lubricate*	2
Saw Chain	Inspect/Sharpen/Replace/Tension*	2
Every Refuel		
Fuel System	Inspect	1
Guide Bar/Sprocket Nose	Inspect/Clean/Lubricate*	2
Saw Chain	Inspect/Sharpen/Replace/Tension*	2
3 Months		
Air Filter	Replace*	1
Fuel Filter	Inspect*	1

COMPONENT/SYSTEM	MAINTENANCE PROCEDURE	REQ'D SKILL LEVEL
Fuel Cap Gasket	Inspect*	1
Spark Plug	Inspect/Clean/Replace*	1
Muffler Spark Arrestor	Inspect/Clean/Replace*	2
Cylinder Exhaust Port	Inspect/Clean/Decarbon	2
Drive Shaft (Flex Cable Models)	Grease(1)	2
Yearly		
Fuel Filter	Inspect/Replace*	1
Fuel Cap Gasket	Replace*	1

IMPORTANT NOTE - Time intervals shown are maximum. Actual use and your experience will determine the frequency of required maintenance.

MAINTENANCE PROCEDURE NOTES:

(1) Apply lithium based grease every 25 hours of use.


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

* Replacement is recommended based on the finding of damage or wear during inspection.

Air Filter

Level 1

Parts Required: Tune Up Kit.

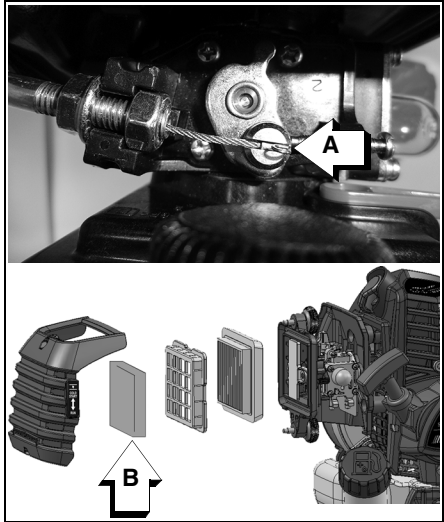
1. Close choke (COLD START [] position). This prevents dirt from entering the carburetor throat when the air filter is removed. Brush accumulated dirt from air cleaner area.
2. Remove air filter cover. Brush dirt from inside cover.

NOTICE

Assure throttle wire retaining clip (A) remains in place as shown when removing or installing air filter cover.

3. Remove foam pre-filter (B) and air filter and clean as indicated below:
4. Foam Pre-filter
 - Clean foam filter in water/detergent solution and rinse with clean water.
 - Wrap the filter in a clean, dry cloth and squeeze (do not wring) dry. Allow to dry completely before reuse. Do not oil.

Air Filter

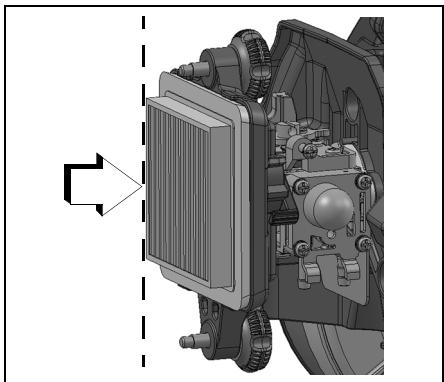


- Lightly brush debris from filter. Replace filter if it is damaged, fuel soaked, very dirty, or the rubber sealing edges are deformed.

5. Assemble components in reverse order.

NOTICE

Assure air filter is assembled with pleats oriented vertically.



Fuel Filter

Level 1.

Parts Required: Tune Up Kit.

! DANGER

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

1. Use a clean rag to remove loose dirt from around fuel cap and empty fuel tank.
2. Pull the fuel filter from the fuel tank.

**NOTICE**

Do not damage fuel line while removing fuel filter from tank.

3. Remove the filter from the line and install the new filter.

Note: Federal EPA regulations require all model year 2012 and later gasoline powered engines produced for sale in the United States to be equipped with a special low permeation fuel supply hose between the carburetor and fuel tank. When servicing model year 2012 and later equipment, only fuel supply hoses certified by EPA can be used to replace the original equipment supply hose. Fines up to \$37,500 may be enforced for using an un-certified replacement part.

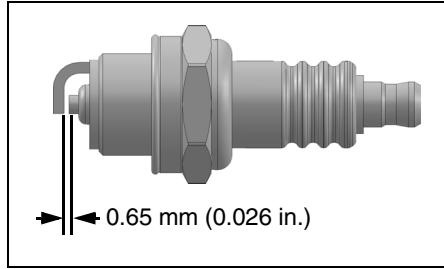
Spark Plug**Level 2.**

Parts Required: Tune Up Kit.

NOTICE

Use only NGK CMR7H spark plug otherwise severe engine damage may occur.

1. Remove spark plug and check for fouling, worn and rounded center electrode.
2. Clean the plug or replace with a new one. DO NOT sand blast to clean. Remaining sand will damage engine.
3. Adjust spark plug gap by bending outer electrode.
4. Tighten spark plug to 102-153 kgf•cm (89-133 in•lbf).



Cooling System

Level 2.

Parts Required: None if you are careful.

NOTICE

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.

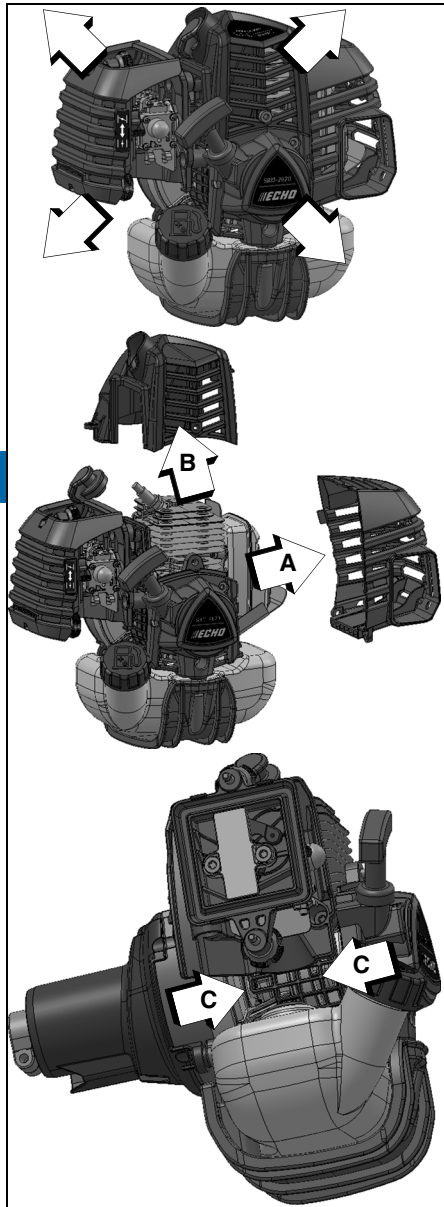
Removal of cooling passage blockages or cleaning of cooling fins is considered “Normal Maintenance.” Any failure attributed to lack of maintenance is not warranted.

1. Remove spark plug lead.
2. Remove muffler cover (A).
3. Remove engine cover (B).

NOTICE

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

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



Exhaust System

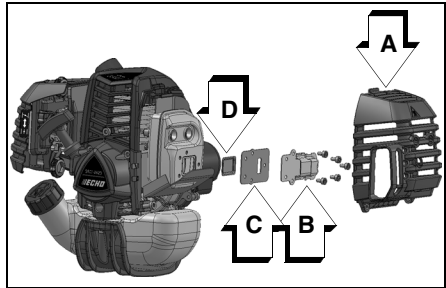
Spark Arrestor Screen

Level 2.

Parts Required: Spark Arrestor Screen, Gasket

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

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



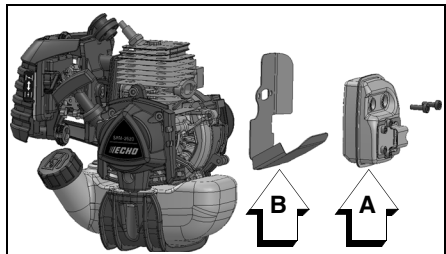
6. Replace screen if it is cracked, plugged, or has holes burned through.
7. Assemble components in reverse order.

Exhaust Port Cleaning

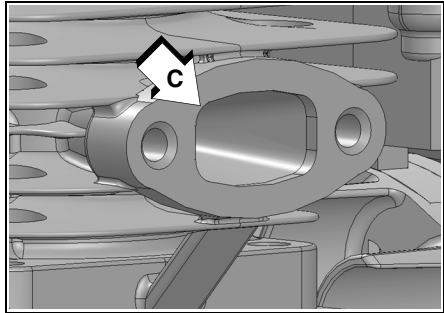
Level 2.

Parts Required: As needed: Heat Shield

1. Remove spark plug lead from spark plug, and remove muffler cover.
2. Place piston at top dead center. Remove muffler (A) and heat shield (B).



3. Use a wood or plastic scraping tool to clean deposits from cylinder exhaust port (C).



NOTICE

Never use a metal tool to scrape carbon from the exhaust port. Do not scratch the cylinder or piston when cleaning the exhaust port. Do not allow carbon particles to enter the cylinder.

4. Inspect heat shield, and replace if damaged.
5. Install heat shield and muffler.
6. Tighten muffler mounting bolts (or nuts) to 90-110 kgf•cm (80-95 in•lbf).
7. Install muffler cover and attach spark plug lead.
8. Start engine, and warm to operating temperature.
9. Stop engine, and re-tighten mounting bolts (or nuts) to specifications.

Carburetor Adjustment

Level 2.

Engine Break-In

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

High Altitude Operation

This engine has been factory adjusted to maintain satisfactory starting, emission, and durability performance up to 1,100 feet above sea level (ASL) (96.0 kPa). To maintain proper engine operation and emission compliance above 1,100 feet ASL the carburetor may need to be adjusted by an authorized ECHO service dealer.

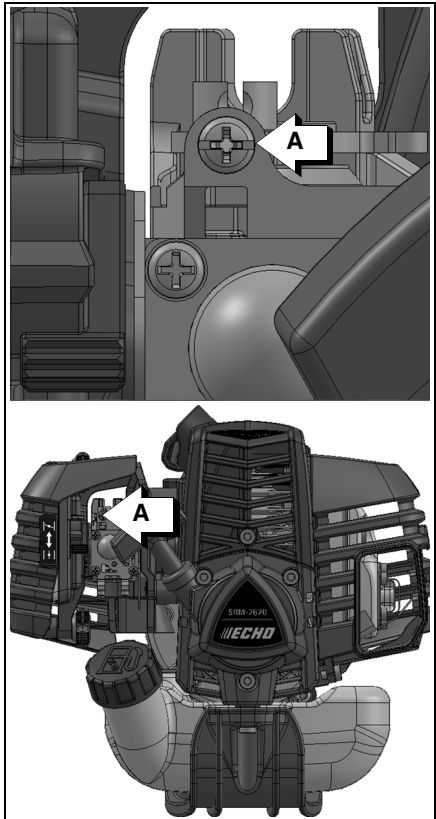
NOTICE

If the engine is adjusted for operation above 1,100 feet ASL, the carburetor must be re-adjusted when operating the engine below 1,100 feet ASL, otherwise severe engine damage may result.

Parts Required: None

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

1. Check idle speed and reset if necessary. If a tachometer is available, idle speed screw (A) should be set to the specifications found on “Specifications” page of this manual. Turn idle screw (A) clockwise to increase idle speed; counterclockwise to decrease idle speed.



! WARNING

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

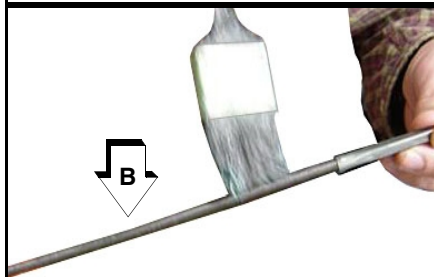
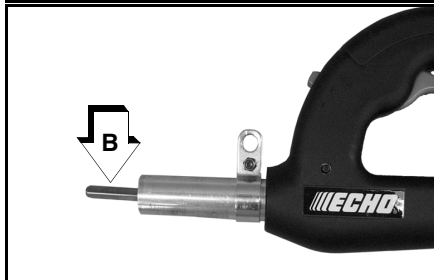
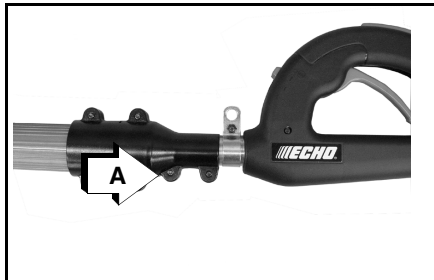
Lubrication

Flexible Drive Shaft

Level 1.

Parts Required: Lithium Based Grease

1. Loosen clamping screws (A) on driveshaft coupling.
2. Remove handle and flexible drive shaft.
3. Remove flexible drive shaft (B).
4. Wipe flex shaft clean and apply a thin coating of grease.
5. Slide flex shaft into handle. Leave 2–3 inches of flex shaft exposed. DO NOT get dirt on flex shaft.
6. Align flexible drive shaft with drive shaft socket, and slide together until handle is fully seated into drive shaft coupling.
7. Tighten clamping screws (A).



Guide Bar and Saw Chain Replacement

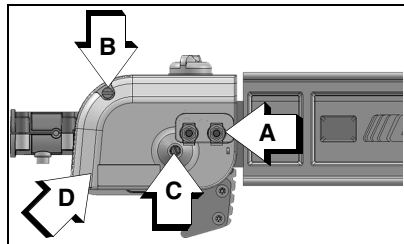
WARNING

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

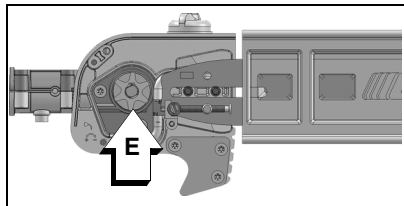
Level 2.

1. Remove two guide bar nuts (A) and sprocket cover (B), turn saw chain tension adjustment screw (C) counterclockwise to release tension.
2. Remove guide bar cover (D).
3. Remove guide bar and saw chain from gear case and sprocket.



4. Remove chain from guide bar and check guide bar for damage and excessive or uneven wear. Replace guide bar if necessary
5. Install chain on guide bar with cutters on top of bar facing toward bar tip.

6. Install guide bar and chain on gear case, engaging chain with drive sprocket (E).
7. Turn tension adjustment screw clockwise to take up slack in saw chain.

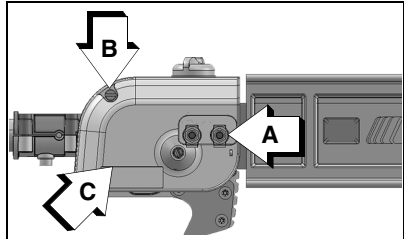


8. Install guide bar cover (D), and tighten guide bar nuts finger tight and install guide bar cover screw (B).
9. Adjust chain tension.

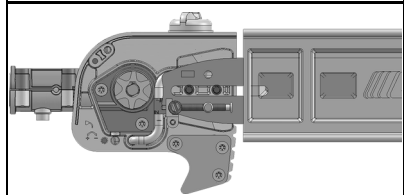
Guide Bar Cover Cleaning

1. Remove two guide bar nuts (A) and guide bar cover screw (B).

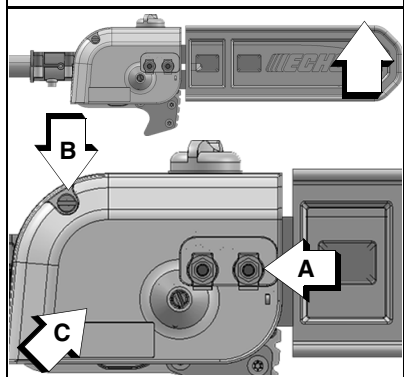
- Remove guide bar cover (C).



- Gently brush debris from inside guide bar cover and from around sprocket.



- Hold the bar nose up. Install guide bar cover (C). Install the guide bar nuts (A). Tighten the rear nut first, then tighten the front nut. Install and tighten the guide bar cover screw (B).



Filing Standard Saw Chain

Level 2

Power Pruner Bar and Chain Combinations					
BAR P/N	CHAIN P/N	CHAIN TYPE	LINK S	PITCH	GUAGE
Narrow Kerf					
254 mm (10 in.) narrow bar P/N 10A4CD3739	90PX39CQ	90	39	9.5 mm (0.375 in.)	0.043
305 mm (12 in.) narrow bar P/N 12A4CD3744	90PX44CQ		44		

Power Pruner Bar and Chain Combinations					
BAR P/N	CHAIN P/N	CHAIN TYPE	LINK S	PITCH	GUAGE
Regular					
254 mm (10 in.) regular bar P/N 10A0CD3739	91VXL39C Q	91	39	9.5 mm (0.375 in.)	0.050
305 mm (12 in.) regular bar P/N 12A0CD3744	91VXL44C Q		44		

NOTICE

Check bar part number on your Power Pruner. Chain and guide bar gauge size must be identical. Use bar and chain combinations shown in table above.

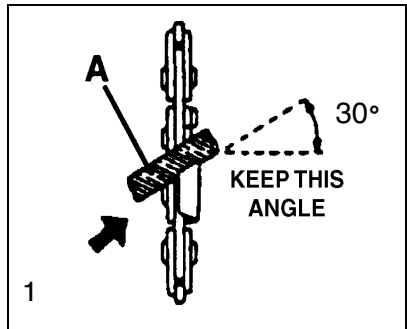
NOTICE

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

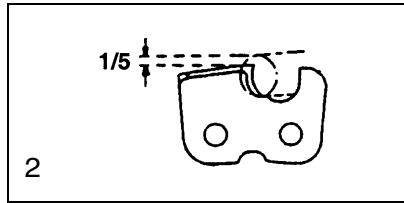
! WARNING

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

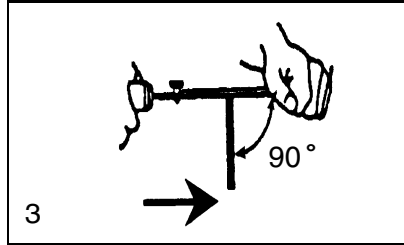
1. Set round file (A) in cutter at 30° angle. One fifth (1/5) of the file should be exposed above top cutter edge.



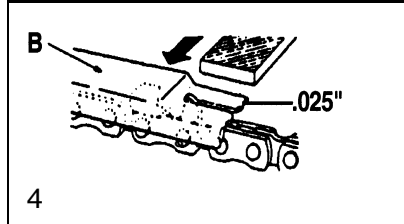
2. Keep file horizontal in cutter and file in one direction.
3. File until cutter top and side bevel edges are sharp without nicks.



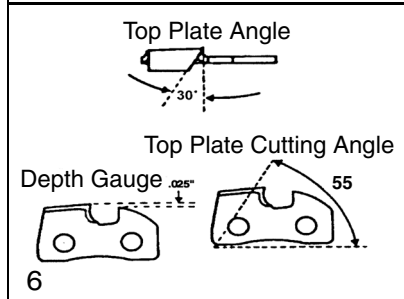
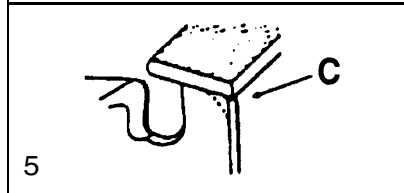
4. Place depth gauge tool (B) firmly on top of cutter with 0.635 mm (0.025 in.) slot and end against front cutter raker. File cutter raker with flat file until flush with top of depth gauge.



Finish cutter sharpening by rounding front raker edge (C) with flat file.



5. Properly filed cutter is as shown.
6. Apply clean oil and rotate saw chain slowly to wash away filings.
7. If saw chain is coated or clogged with resin, clean in kerosene, then soak in oil.



TROUBLESHOOTING

ENGINE PROBLEM TROUBLESHOOTING CHART				
Problem	Check	Status	Cause	Remedy
Engine starts hard or Engine does not start	Fuel at carburetor	No fuel at carburetor	Fuel strainer or fuel line obstructed	Clean or replace See your Echo dealer
	Fuel at cylinder	No fuel at cylinder	Carburetor	See your Echo dealer
		Muffler wet with fuel		OPEN choke Clean or replace air filter Adjust carburetor See your Echo dealer
			No spark	Stop switch OFF - Electrical problem - Interlock switch
	Spark at plug	No spark	Incorrect gap - Covered with carbon - Fouled with fuel - Plug defective	Adjust to 0.65mm (0.026 in.) Clean or replace plug
Engine runs, but dies or Engine does not accelerate properly	Air filter	Air filter dirty	Normal wear	Clean or replace
	Fuel filter	Fuel filter dirty	Contaminants or residue in fuel	Replace filter or replace fuel
	Fuel vent	Fuel vent plugged	Contaminated fuel	Clean or replace
	Spark plug	Plug dirty or worn	Normal wear	Clean and adjust or replace
	Carburetor	Improper adjustment	Vibration	Adjust
	Cooling system	Cooling system dirty or plugged	Extended operation in dirty or dusty locations	Clean
	Spark arrestor screen	Spark arrestor screen plugged	Normal wear	Replace

ENGINE PROBLEM TROUBLESHOOTING CHART				
Problem	Check	Status	Cause	Remedy
Engine does not crank	N/A	N/A	Internal engine problem	See your Echo dealer

DANGER

Fuel vapors are extremely flammable and may cause fire and/or explosion. Never test for ignition spark by grounding spark plug near cylinder plug hole, otherwise serious personal injury may result.

STORAGE

WARNING

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

Long Term Storage (Over 30 Days)

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

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

DANGER

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

2. Place the stop switch in the "OFF" position.
3. Remove accumulation of grease, oil, dirt and debris from exterior of unit.

NOTICE

Some tree sap and resins are corrosive. Thoroughly wash the guide bar and sprocket areas after each use, then coat metal parts with light oil.

4. Perform all periodic lubrication and services that are required.
5. Tighten all the screws and nuts.
6. Drain fuel tank completely. Press purge bulb 6–7 times to remove remaining fuel from carburetor then drain the tank again. Close choke, start and run the engine until it stops due to lack of fuel.
7.
 - a. Allow engine to cool then 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.
 - 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.
9. Install the sprocket guard on the guide bar and saw chain during storage.

SPECIFICATIONS

Model	PPT-2620	PPT-2620H
Length (standard)	2,716 mm (107 in.)	
Length (Extended)	3,704 mm (146 in)	
Width	273 mm (11 in.)	
Height	260 mm (10 in.)	
Weight (dry)	7.9 kg (17.4 lb.)	7.7 kg (17 lb.)
Engine Type	Air cooled, two-stroke, single cylinder gasoline engine	
Bore	34 mm (1.34 in.)	
Stroke	28 mm (1.1 in.)	
Displacement	25.4 cc (1.55 cu. in.)	
Exhaust	Spark arrestor muffler or spark arrestor muffler with catalystr	
Carburetor	Diaphragm w /purge pump	
Ignition System	Flywheel magneto, capacitor discharge ignition type	
Spark Plug	NGK CMR 7H (Gap 0.65 mm [0.026 in.])	
Fuel	Mixed (Gasoline and Two-stroke Oil)	
Fuel/Oil Ratio	50 : 1 Power Blend X™ or ECHO Red Armor® ISO-L-EGD (ISO/CD 13738) and J.A.S.O. M345- <u>FD</u> , two-stroke, air-cooled engine oil.	
Gasoline	Use 89 Octane unleaded. Do not use fuel containing methyl alcohol, more than 10% ethyl alcohol or 15% MTBE. Do not use alternative fuels such as E15 or E85.	
Oil	Power Blend X™ or ECHO Red Armor® Premium Universal 2-Stroke Oil	
Fuel Tank Capacity	0.53 L (17.9 US fl. oz.)	
Starter System	Automatic Rewind Starter	
Clutch	Centrifugal Type	
Drive Shaft	Aluminum Extrusion	
Sprocket Type	6 tooth spur, 9.53 mm (3/8 inch) pitch	
Gear Case Ratio	1.5 : 1	
Oiling System	Automatic	
Chain Oil Capacity	.2 L (6.76 oz.)	
Handles	Right hand grip w/throttle trigger and throttle trigger lockout	
Shoulder Harness	Standard	
Idle Speed	3,100	

Model	PPT-2620	PPT-2620H
Clutch Engagement Speed	4,100	
Wide Open Throttle Speed (W.O.T.)	11,250	
Guide Bar and Saw Chain (91)	305 mm (12 in.); 9.53 mm (3/8 inch) pitch chain, 0.050 gauge	

ENGLISH

PRODUCT REGISTRATION

Thank you for choosing ECHO Power Equipment

Please go to <http://www.echo-usa.com/Warranty/Register-Your-ECHO> to register your new product on-line. It's **FAST** and **EASY!** NOTE: your information will never be sold or misused by ECHO, Inc. Registering your purchase enables us to contact you in the unlikely event of a service update or product recall, and verifies your ownership for warranty consideration.

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

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



PRODUCT REGISTRATION CARD : TARJETA DE REGISTRO : CARTE D'ENREGISTREMENT DU PRODUIT

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OPCIÓN POR INTERNET: Regístrese en la página web y ahorre una estampilla! Le alertarán sobre actualizaciones del producto y/o se le enviará información sobre los nuevos productos ECHO y ofertas especiales. Simplemente visite: www.echo-usa.com

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Address : Dirección : Adresse	
City : Ciudad : Ville	Zip Code : Código Postal : Code Postal
State : Estado : Province	
E-Mail Address : Dirección De Correo Electrónico : Courriel Electronique	
Phone Number : Número De Teléfono : Téléphone	Date of Purchase : Fecha de la Compra : Date de l'achat
Where Purchased : Nombre del Almacén donde fue Comprado : Lieu d'achat	
Model Number : Numero del Modelo : No. de modèle	Serial Number : Numero de Serie : No. de série

Registering your purchase enables us to contact you in the unlikely event of a service update or product recall and verifies your purchase. We reserve the right to discontinue this service at any time without notice. Please do not provide this information as a basis for a claim or lawsuit. The registration of your purchase does not constitute an offer of insurance or any other financial product. The registration of your purchase does not constitute an offer of insurance or any other financial product. L'enregistrement de votre achat nous permettra de vous contacter dans le cas improbable de modifications des instructions d'emballage ou de rappel du produit et vérifier que vous êtes le propriétaire en cas de vol ou de perte.

Primary use of tool: Professional Homeowner Rental Equip.
 Uso primario de la herramienta: Profesional Dueño de casa Alquiler
 Usage principal: Professionnel Résidentiel Location
 Do you wish to receive periodic ECHO product information and special offers by e-mail? Yes No

¿Desea usted recibir información periódica y ofertas especiales por correo electrónico sobre el producto ECHO? Yes No

Souhaitez-vous recevoir périodiquement de l'information sur les produits ECHO et les offres spéciales par courrier électronique? Oui Non

Did you visit the ECHO website before purchasing your product? Yes No

Visitó usted la página web ECHO antes de comprar su producto? Si No

Avez-vous visité le site d'ECHO avant de procurer votre produit? Oui Non

What factor(s) most influenced your purchase?

- Performance Dealer
 Reliability Price
 Friend/Family Brand Prior Experience Quality
 Functionality Warranty

- ¿Que factor(es) influenció más en su compra?
 Precio Distribuidor
 Confiabilidad Experiencia Anterior Calidad
 Amigo/Familia Marca Garantía

- Quel facteur (facteurs) vous a influencé le plus?
 Performance Prix Marchand
 Fiabilité Expérience Qualité
 Amis/Famille Marque Garantie

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