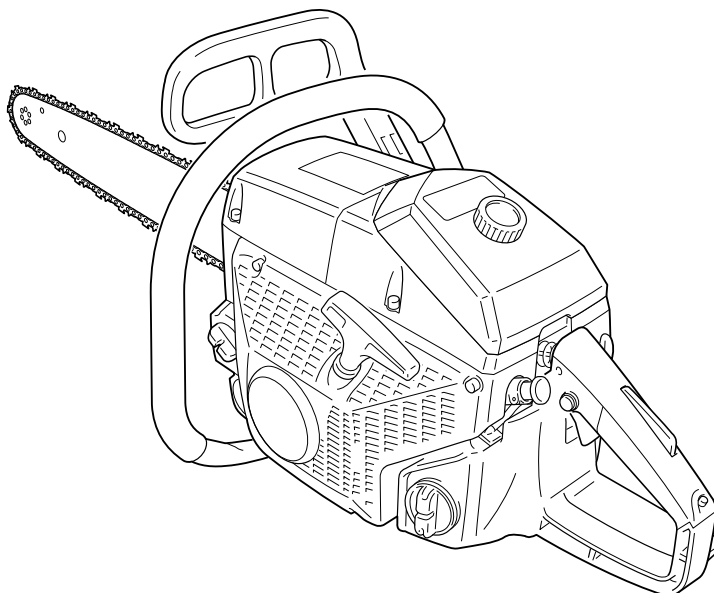




OPERATOR'S MANUAL

CHAIN SAW

CS-800P



WARNING



Read the instructions carefully and follow the rules for safe operation.

Failure to do so could result in serious injury.

ECHO POWER EQUIPMENT (CANADA)

501 Newbold Street, London, Ontario Canada N6E 1K4

X750 315-260 3

1903n 0099 ES

RULES FOR SAFE OPERATION

1. Fatigue causes carelessness. Be more cautious before rest periods and before the end of your shift.
2. Personal protective clothing required by your safety organizations, government regulations, or your employer should be used; otherwise, snug fitting clothing, protective eyewear, safety footwear and hand, leg and hearing protection should be worn.

Note: Personal protective clothing should meet the requirements of applicable Standards.

3. Before fueling, servicing or transporting your chain saw switch off the engine. To help prevent fire, restart your chain saw at least 3 m from the fueling area.
4. When using a chain saw a fire extinguisher should be available.
5. When felling, keep at least 2 tree lengths between yourself and your fellow workers.
6. Plan your work; assure yourself of an obstacle-free work area and, in the case of felling, of an escape path from the falling tree.
7. Follow instructions in your operator's manual for starting the chain saw and control the chain saw with a firm grip on both handles when it is in operation. Keep handles dry, clean and free of oil. A chain saw should never be carried with the engine running. When carrying a chain saw with the engine running, push the front hand guard forward to engage the chain brake.
8. When transporting your chain saw, use the appropriate transportation covers that should be available for the guide bar and saw chain.
9. Never operate a chain saw that is damaged, improperly adjusted, or is not completely and securely assembled. Be sure that the saw chain stops moving when the throttle control trigger is released. Never adjust the guide bar or saw chain when the engine operating.
10. Beware of carbon monoxide poisoning. Operate the chain saw in well-ventilated areas only.
11. Do not attempt a pruning or liming operation in a standing tree unless specifically trained to do so.
12. Guard against kickback. Kickback is the upward motion of the guide bar, which occurs when the saw chain, at the nose of the guide bar, contact an object. Kickback can lead to dangerous loss of the chain saw.

TO AVOID KICKBACK:

- (a) Contact of the guide bar tip with any object should be avoided.
 - (b) Tip contact may cause the guide bar to move suddenly upward and backward which may cause serious injury.
 - (c) Always use two hands when operating the chain saw.
 - (d) Use a firm grip, thumbs and fingers encircling the handles.
 - (e) Don't overreach.
 - (f) Avoid cutting above shoulder height.
 - (g) Follow the manufacture's instructions for sharpening and maintenance of the saw chain.
13. When boring with the chain saw, the initial cut should be introduced with the lower part of the nose (tip) until the hole is sufficiently large so as to introduce the entire nose (tip) of the guide bar. This technique should reduce the danger of kickback.
 14. A chain saw is intended for two-handed use. Serious injury to the operator, helpers and/or bystanders may result from one-handed operation.

CAUTION

- A. Allow your chain saw to cool before refueling, and do not smoke while refueling.
- B. Do not allow other persons or animals close to running chain saw or close to where a tree is being felled.
- C. Use extreme caution when cutting small size brush and saplings because slender material may catch the saw chain and be whipped toward you.
- D. When cutting a limb that is under tension is alert for spring-back.

CONTENTS

RULES FOR SAFE OPERATION	2
SYMBOLS AND SIGNS	4
PACKING LIST	5
NOMENCLATURE OF PARTS	6
OPERATOR SAFETY	8
CORRECT USE OF CHAIN BRAKE	9
PREPARATION FOR USE	10
FUEL AND LUBRICANT	12
EMISSION DATA	14
OPERATION	15
CUTTING INSTRUCTION	18
CHAIN AND GUIDE BAR COMBINATION.....	23
MAINTENANCE AND CARE.....	24
SETTING THE SAW CHAIN	28
TROUBLESHOOTING	30
STORAGE AFTER USE.....	31
TECHNICAL DATA.....	32
WARRANTY REGISTRATION SHEET	33

This spark ignition system complies with Canadian standard ICES-002.

This chain saw is designed for cutting wood or wood products.

Do not cut solid metal, sheet metal, plastic or any non-wood materials.

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.



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



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

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

OR



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

SYMBOLS AND SIGNS



DANGER

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



WARNING

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



CAUTION

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



CIRCLE AND SLASH SYMBOL

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

NOTICE

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

IMPORTANT

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

SYMBOL FORM

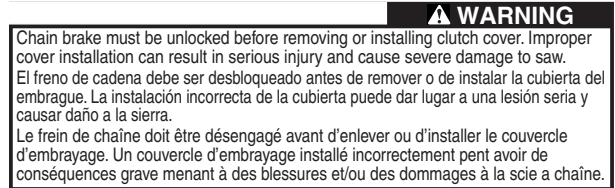
Symbol form / shape	Symbol description / application	Symbol form / shape	Symbol description / application
	CAUTION: For safe operation follow all safety precautions and instructions in Operator's Manual		Choke control “Cold Start” position (choke closed)
	Wear eyes, ears and head protection		Oil and gasoline mixture
	Tip contact may cause the guide bar to move suddenly upward and backward, which may cause serious injury		Chain oil fill
	Contact of the guide bar tip with any object should be avoided		Chain oiler adjustment
	Both of the operator's hands must be used to operate the chain saw		Carburetor adjustment - Low speed mixture
	Chain brake operation		Carburetor adjustment - High speed mixture
	Emergency stop		Carburetor adjustment - Idle speed

DECALS

Part Number X505-009380



Part Number X505-009760



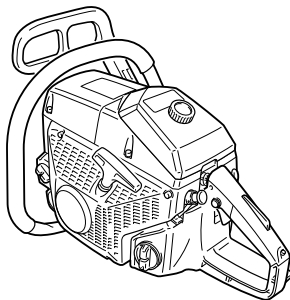
Locate this safety decal on your unit. The complete unit illustration found in the "NOMENCLATURE OF PARTS" section will help you locate them. Make sure the decal is legible and that you understand and follow the instructions on it. If a decal cannot be read, a new one can be ordered from your ECHO dealer.

PACKING LIST

The ECHO product you purchased has been factory pre-assembled for your convenience. Due to packaging restrictions, guide bar and saw chain installation and other 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 packing list to check for missing parts.

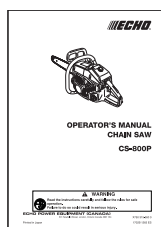
ECHO chain saw



13 x 19 mm T-wrench



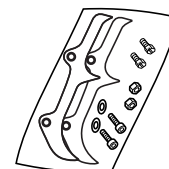
Operator's manual



Warranty sheet



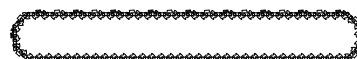
Spiked bumpers, Bolts 6 x 14 mm, Bolts 6 x 20 mm, Washers 6 mm, Nuts 6 mm



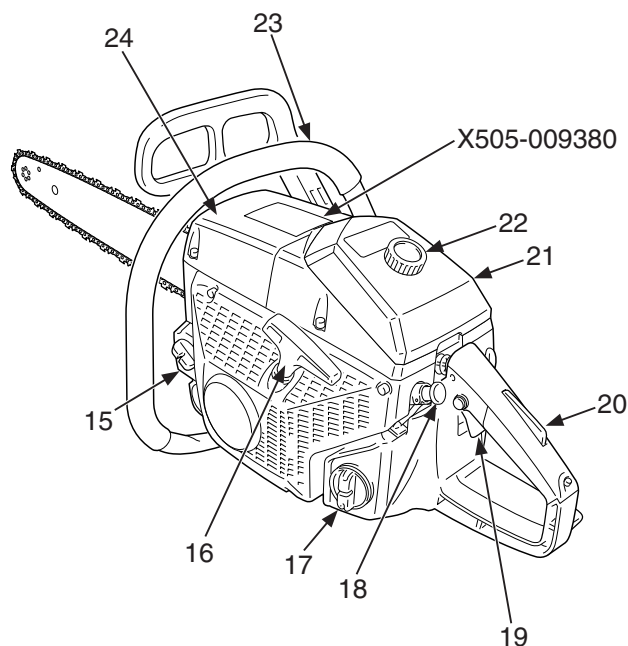
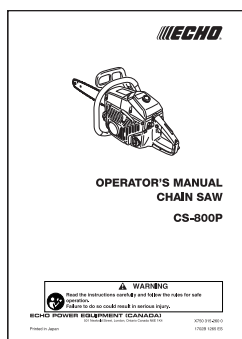
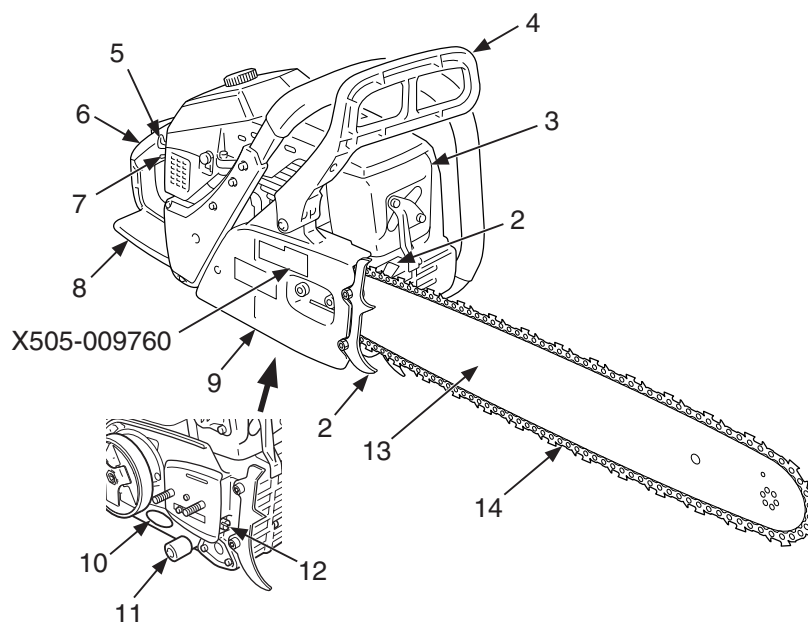
Guide bar



Saw chain



NOMENCLATURE OF PARTS



Part Number X505-009380

27D0PS3893

72LPX93CQ

Manual shows other combinations.
Manuel montre d'autres combinaisons.

WARNING!!

This chain saw is capable of severe kickback that could result in serious injury to the user. Do not operate this chain saw unless you have extraordinary cutting needs and experience and specialized training for dealing with kickback. ECHO chain saws with significantly reduced kickback potential are available.

CS-800P

Part Number X505-009760

WARNING

Chain brake must be unlocked before removing or installing clutch cover. Improper cover installation can result in serious injury and cause severe damage to saw.

El freno de cadena debe ser desbloqueado antes de remover o de instalar la cubierta del embrague. La instalación incorrecta de la cubierta puede dar lugar a una lesión seria y causar daño a la sierra.

Le frein de chaîne doit être désengagé avant d'enlever ou d'installer le couvercle d'embrayage. Un couvercle d'embrayage installé incorrectement peut avoir de conséquences grave menant à des blessures et/ou des dommages à la scie à chaîne.

* If a decal cannot be read, a new one can be ordered from your ECHO dealer.

NOMENCLATURE OF PARTS

- 1. Operator's manual** - Included with unit.
Read before operation and keep for future reference to learn proper, safe operating techniques.
- 2. Spiked bumpers** - Device, fitted in front of the guide bar mounting point, acting as a pivot when in contact with a tree or log.
- 3. Spark arrestor muffler** - The spark arrestor muffler controls the exhaust noise and prevents hot, glowing particles of carbon from leaving the muffler.
- 4. Front hand guard** - Guard between the front handle and the saw chain for protecting the hand from injuries and aiding in control of the chain saw if the hand slips off the handle. This guard is used to lock the chain brake which is to stop the saw chain rotation.
- 5. Choke control knob** - Device for enriching the fuel/air mixture in the carburetor to aid cold starting.
Also activates fast idle throttle latch.
- 6. Rear handle (for the right hand)** - Support handle located towards the rear of the engine housing.
- 7. Ignition switch** - Device for connecting and disconnecting the ignition system and thus allowing the engine to be started or stopped.
- 8. Rear hand guard** - Extension on the lower part of the rear handle for protecting the hand from the chain if it breaks or degrooves.
- 9. Clutch cover** - Protective cover to the guide bar, saw chain, clutch and sprocket when the chain saw is in use.
- 10. Type and serial number**
- 11. Chain catcher** - A projection designed to reduce the risk of the operator's right hand from being hit by a chain which has broken or derailed from the guide bar during cutting.
- 12. Chain tension adjuster** - Device to adjust chain tension.
- 13. Guide bar** - The part that supports and guides the saw chain.
- 14. Saw chain** - Chain, serving as a cutting tool.
- 15. Oil tank cap** - For closing the oil tank.
- 16. Starter handle** - Pull handle slowly until starter engages then quickly and firmly.
When engine starts, return handle slowly.
Do not let handle snap back or damage to unit will occur.
- 17. Fuel tank cap** - For closing the fuel tank.
- 18. Manual oil pump** - Device for proper lubrication of chain.
- 19. Throttle trigger** - Device activated by the operator's finger, for controlling the engine speed.
- 20. Throttle trigger lockout** - A safety lever which must be depressed before the throttle trigger can be activated in order to prevent the accidental operation of the throttle trigger.
- 21. Air cleaner cover** - Covers air cleaner.
- 22. Cleaner cover knob** - Device for installing the air cleaner cover.
- 23. Front handle (for the left hand)** - Support handle located at the front of the engine housing.
- 24. Cylinder cover** - The cooling airflow grill.
It covers the cylinder, spark plug and silencer.

OPERATOR SAFETY

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 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 and neck, feet and ankles and hands and wrists.
- Maintain good blood circulation by performing vigorous arm exercises during frequent work breaks and also by not smoking.
- Limit the number of hours of operation.
Try to fill each day with jobs where operating the chain saw, 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 INJURY

- It is believed that over-using the muscles and tendons of the finger, hands, arms and shoulders may cause soreness, swelling, numbness, weakness and extreme pain to the areas just mentioned.
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.
- Take periodic breaks to minimize repetition and rest your hands.
- Reduce the speed and force in which you do the repetitive movement.
- Do exercises to strengthen hand and arm muscles.
- See a doctor if you feel tingling, numbness or pain in your fingers, hands, wrists or arms.
The sooner RSI/CTS is diagnosed, the more likely permanent nerve and muscle damage can be prevented.

EYE AND HEARING PROTECTION

- Wear eye protection goggles that meet ANSI Z 87.1 requirements.
Goggles meeting the requirements have the mark "Z 87" stamped on them.
- Wear hearing protection.
If this guideline is not followed, hearing loss can occur.
ECHO recommends wearing hearing protection at all times.

WEAR PROPER CLOTHING

- Snug fitting durable clothing should be worn.
Pants should have long legs, do not wear shorts.
Do not wear loose fitting clothing, scarves, neckties, jewelry or any item that may become tangled in surrounding growth or the chain saw itself.
- Wear shoes with non-skid soles.
Do not wear open toed shoes or operate unit barefooted.
- Wear no-slip, heavy duty work gloves to improve your grip on the chain saw handles.
The gloves also help reduce the transmission of machine vibration to your hands.

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.

AVOID HOT SURFACES

- During operation, the muffler or catalytic muffler and surrounding cover become hot.
- Never suspend the saw on a lanyard with the engine running.
- Always use the saw from the right-hand side of your body - **never** from the left side.
- Always wear proper safety clothing to protect your lower body from sharp saw chain and hot muffler.
- Always keep exhaust area clear of flammable debris during transportation or when storing, otherwise serious property damage or personal injury may result.



WARNING

Cancer and Reproductive Harm
www.P65Warnings.ca.gov

SPARK ARRESTOR MUFFLER

- The spark arrestor muffler controls the exhaust noise and prevents hot, glowing particles of carbon from leaving the muffler. Make sure the spark arrestor screen is in good repair and properly seated in the muffler.
- Certain internal combustion engines operated on forest, brush, and/or grass-covered areas in the states of Washington, Oregon, Idaho, California, Minnesota, New Jersey and Maine, are required to be equipped with a spark arrestor.

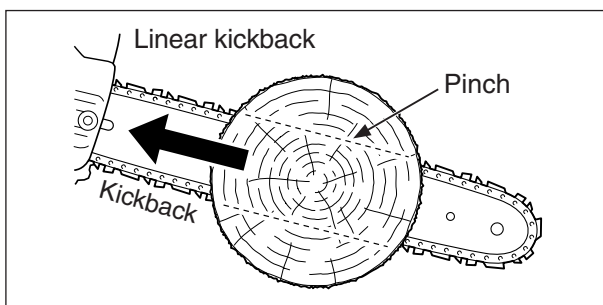
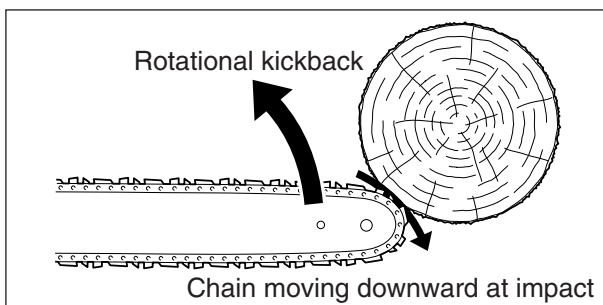
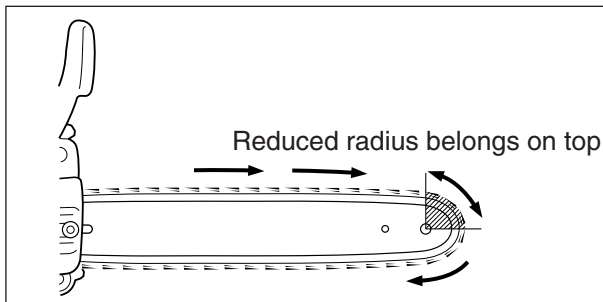
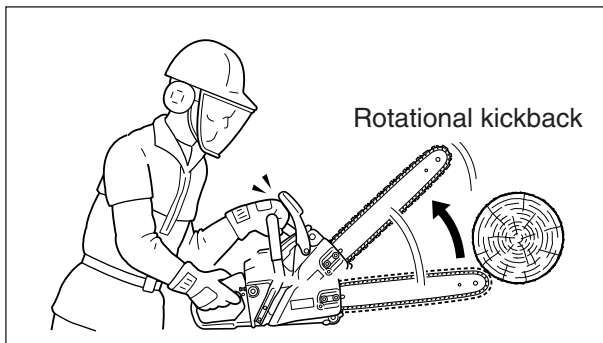
This requirement also applies to all U.S. Forest Service lands.

In some of these areas, the spark arrestor system must be certified per USDA Forest Service Regulation SAE J335.

Check with your local or state authorities for specific regulations in your area.

Failure to follow these requirements is a violation of the law.

CORRECT USE OF CHAIN BRAKE



⚠ DANGER

Kickback safety precaution for chain saw users: Kickback may occur when 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.

The installation of a chain brake may be mandatory by law or as stipulated by insurance regulations in your area of operation.

You should inquire through local government offices, your employer or your local dealer to ensure that your chain saw conforms to the required safety standard.

ECHO chain brakes have been designed and tested to comply with international safety standards as follows.

This model needs to use low-kickback chain and bar.

Do not use a combination other than those specified on page 23.

For your own safety, do not remove the chain brake system.

Canada : CSA Standard Z 62.1 CHAIN SAWS
Standard Z 62.3 KICKBACK

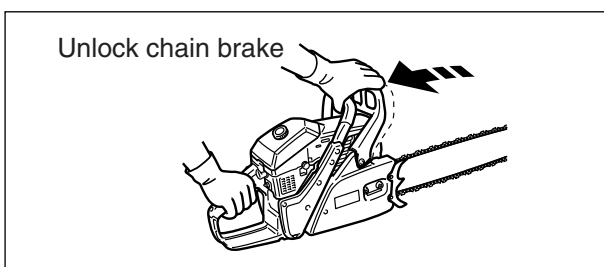
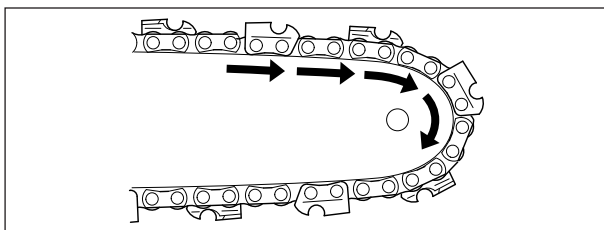
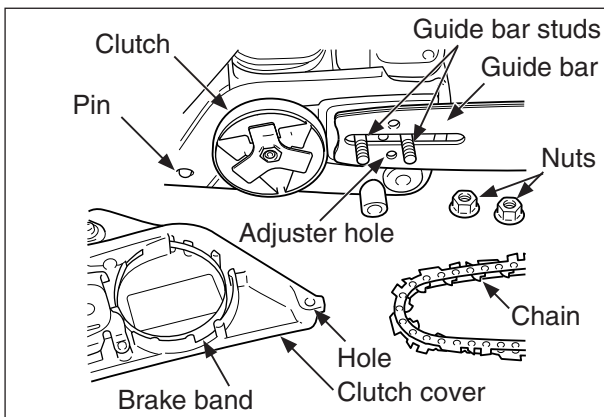
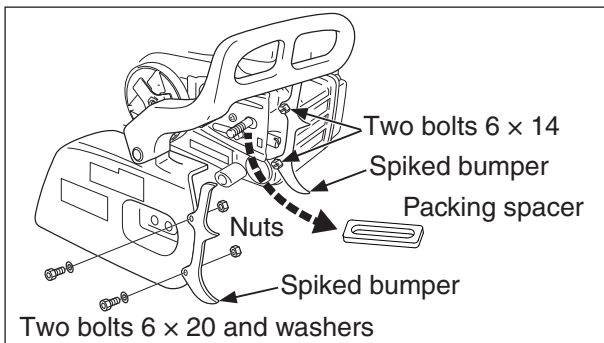
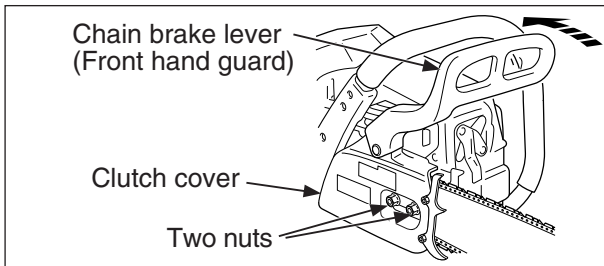
USA : ANSI Standard B175.1
Safety Requirement for chain saws

⚠ WARNING

CSA Z 62.1 stipulates that the brake shall stop the chain 0.12 seconds at an engine speed of 13500 r/min.

It is the responsibility of the owner/operator to ensure that the brake is serviced, adjusted and tested strictly in accordance with the instructions as detailed herein in order to ensure that the brake performance is maintained in compliance with the Standard CSA Z 62.1.

PREPARATION FOR USE



⚠ WARNING

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

GUIDE BAR AND SAW CHAIN INSTALLATION/REMOVAL

NOTICE

Move the chain brake lever (Front hand guard) fully rearward to remove or install the clutch cover to chain saw.

1. Remove spark plug lead. (See page 26)
2. Remove two clutch cover nuts and remove clutch cover.
3. Remove and discard the packing spacer.
4. Remove bar and saw chain if necessary. See "Maintenance and Care" section for guide bar/saw chain maintenance procedures.
5. For initial setup, install spiked bumpers - one on front of machine with two 6 x 14 mm bolts and one on clutch cover with two 6 x 20 mm bolts, washers and nuts each.
6. Mount guide bar on studs and slide toward clutch to make saw chain installation easier. Install chain with cutters on top of guide bar facing forward.
7. Slide bar forward and ensure tensioner pin fits into lower adjustment hole.
8. Unlock the chain brake, and install the clutch cover over the guide bar studs. Ensure brake band is positioned around clutch drum and hole at rear of clutch cover fits pin on engine cover. Tighten clutch cover nuts finger tight.
9. Turn saw over and check brake band for correct position on clutch drum. If brake band is not in place around drum, remove cover, make sure brake is unlocked, and reinstall. Tighten clutch cover nuts finger tight.

⚠ WARNING

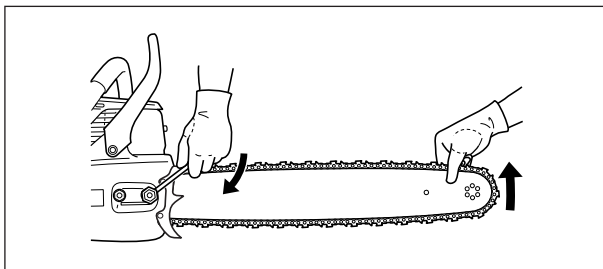
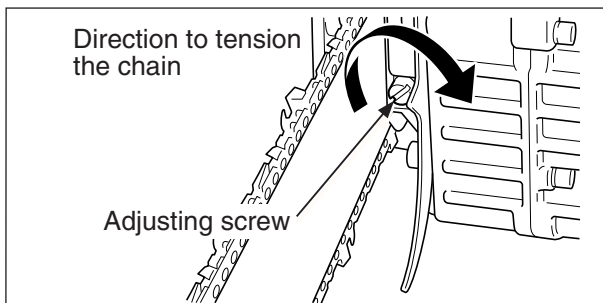
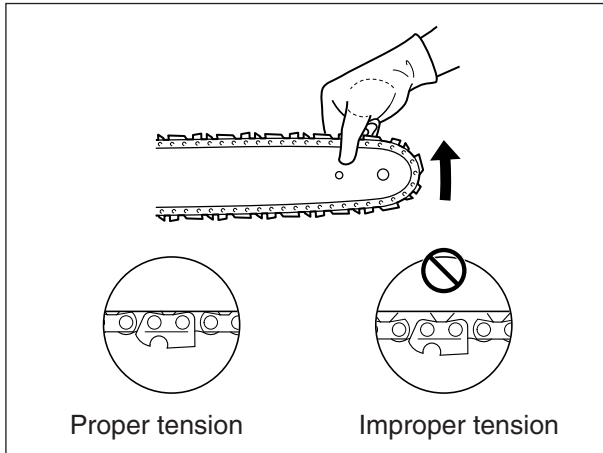
Improper clutch cover assembly can result in serious injury, and will cause severe saw damage if unit is started. Never start or operate saw if brake band is not in place on clutch drum. Always check chain brake operation after replacing cover. Do not use saw if chain brake does not function properly.

ADJUSTING CHAIN TENSION

IMPORTANT

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

1. Remove spark plug lead. (See page 26)
2. Unlock the chain brake and loosen two clutch cover nuts, if necessary.
3. Hold the bar nose up, and turn the adjuster screw clockwise until chain fits snugly against underside of the bar.



4. Tighten both nuts with the bar nose held up.
5. Pull the chain around the bar by hand. Loosen the adjustment if you feel tight spots.
6. When chain is properly tensioned, tighten clutch cover nuts securely - 20 to 23 N·m (200 to 230 kgf·cm).
7. Keep chain properly tensioned at all times.

FUEL AND LUBRICANT

⚠ 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.

IMPORTANT

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

FUEL STATEMENT

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

Fuel Mix Chart 50 : 1

Gasoline	Oil
L	mL
5	100
10	200
25	500



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



DANGER

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

- Use an approved fuel container.
- Do not smoke near fuel.
- Do not allow flames or sparks near fuel.
- Fuel tanks/cans may be under pressure. Always loosen fuel caps slowly allowing pressure to equalize.
- Never refuel a unit when the engine is hot!
- Never refuel a unit with the engine running.
- Do not fill fuel tanks indoors. Always fill fuel tanks outdoors over bare ground.
- Securely tighten fuel cap after refueling.
- Inspect for fuel leakage. If fuel leakage is found, do not start or operate unit until leakage is repaired.
- Move at least 3 m from refueling location before starting the engine.

HANDLING FUEL

Mixing Instructions -

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

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

After Use -

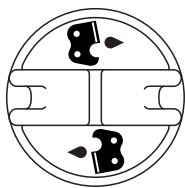
Do not store a unit with fuel in its tank. Leaks can occur. Return unused fuel to an approved fuel storage container.

Storage -

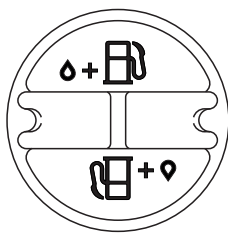
Fuel storage laws vary by locality. Contact your local government for the laws affecting your area. As a precaution, store fuel in an approved, airtight container. Store in a well-ventilated, unoccupied building, away from sparks and flames.

Cap indication

Oil/fuel tanks are indicated by the following illustrations on the caps.



Oil tank cap



Fuel tank cap

CHAIN LUBRICANT

Proper lubrication of the chain while in operation reduces the friction between the chain and the guide bar to a minimum and assures a longer service life.

- Use bar and chain oil of high quality for this purpose.
- Do not use used or reclaimed oil to avoid various oiler problems.
- Use ECHO bar and chain oil.
- Use bar and chain oil of the following grades:
SAE No. 30..... in summer
SAE No. 10..... in winter or when cutting resinous trees
- When refueling, also refill chain oil.

EMISSION DATA

EMISSION CONTROL

(EXHAUST and EVAPORATIVE) EPA 2010 and/
or C.A.R.B. TIER III

The emission control system for the engine is EM/
TWC (Engine Modification and 3-way Catalyst)
and for the fuel tank the Control System is EVAP
(Evaporative Emissions) or N (for nylon tank).
Evaporative emission may be applicable to
California models only.

An Emission Control Label is located on the
engine. (This is an example only, information on
label varies by engine family).

PRODUCT EMISSION DURABILITY (EMISSION COMPLIANCE PERIOD)

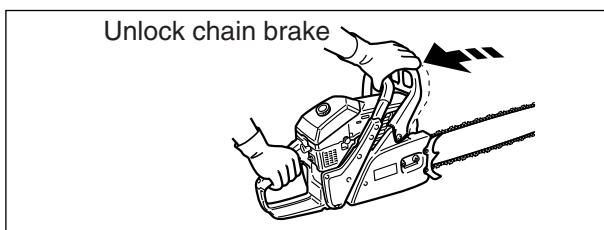
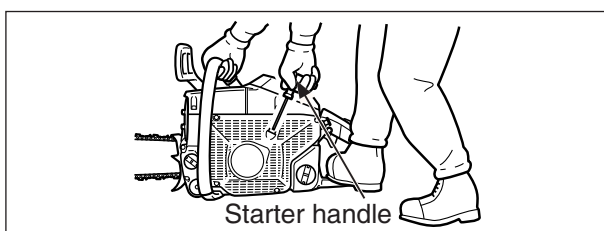
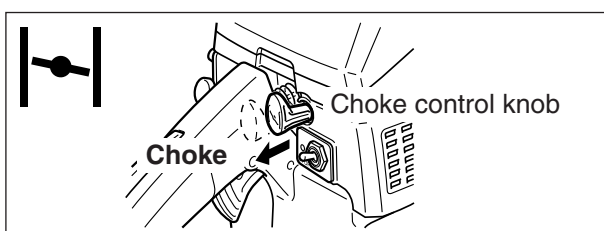
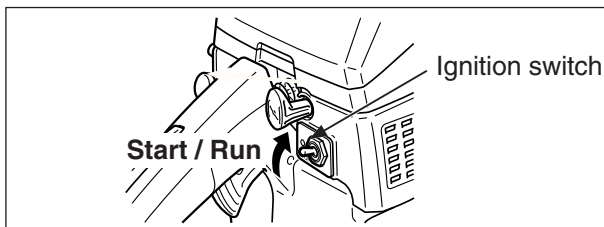
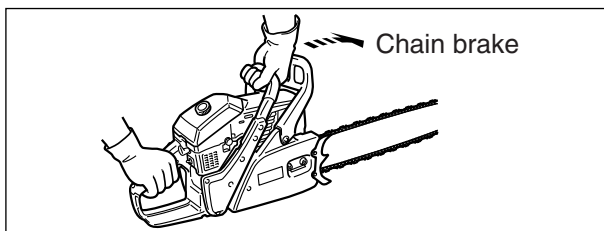
The 300 hours emission compliance period is
the time span selected by the manufacturer
certifying the engine emissions output meets
applicable emissions regulations, provided that
approved maintenance procedures are followed
as listed in the Maintenance Section of this
manual.

EMISSION CONTROL INFORMATION

ENGINE FAMILY: #EHXS.0815RB DISPLACEMENT: 80.7 cc
EMISSION COMPLIANCE PERIOD: 300 Hours
THIS ENGINE MEETS U.S. EPA EXH/EVP EMISSION
REGULATIONS FOR MODEL YEAR **** REFER TO OWNER'S MANUAL
FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.
YAMABIKO CORP. *** X X X X



OPERATION

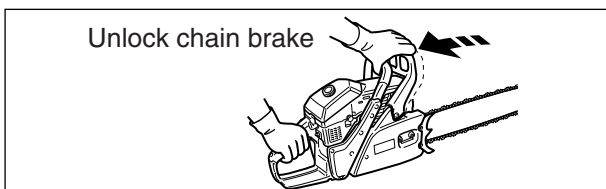
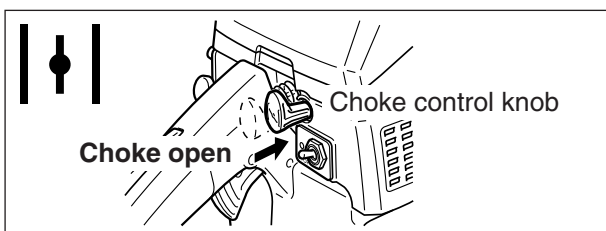
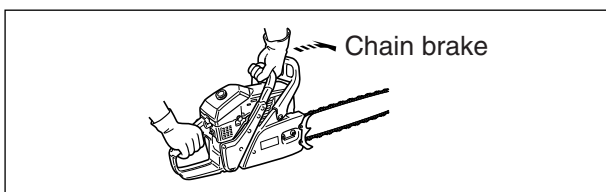
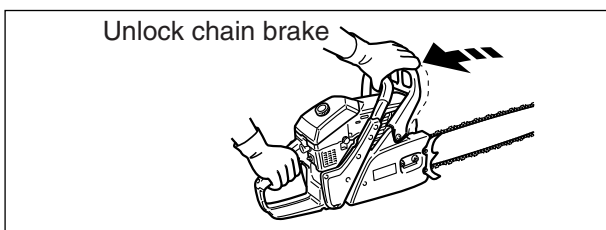
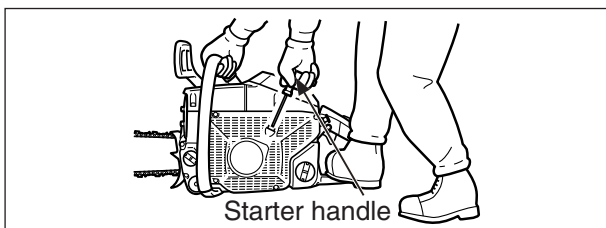
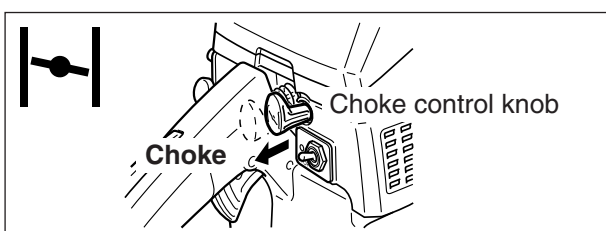
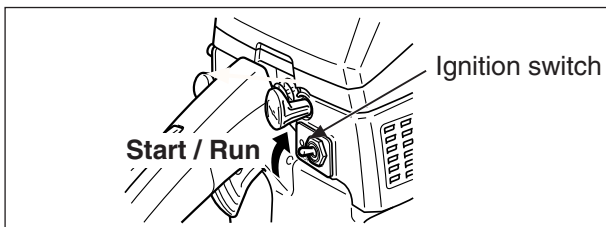
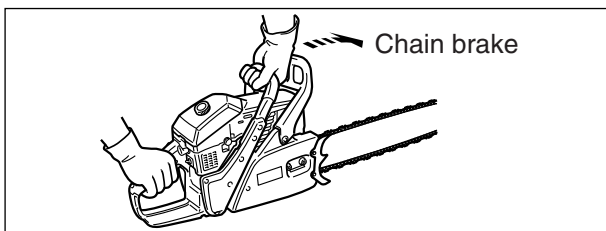


WARNING

- After choke control knob is pulled and then knob is returned to original position, throttle remains a little open (latch condition).
- If engine is started in this latch condition, chain starts to turn.
Do not start engine before chain brake is activated.

CAUTION

- After starting the engine, immediately squeeze and release throttle trigger for disengaging throttle latch and returning engine to idle, and pull front hand guard towards the operator immediately. (Chain brake unlocked position)
- Never use throttle latch for cutting.
- Use the chain brake only in starting or in emergencies.



WHEN THE ENGINE IS COLD

⚠ CAUTION

Make sure the bar and chain are free from any obstruction when starting the chain saw.

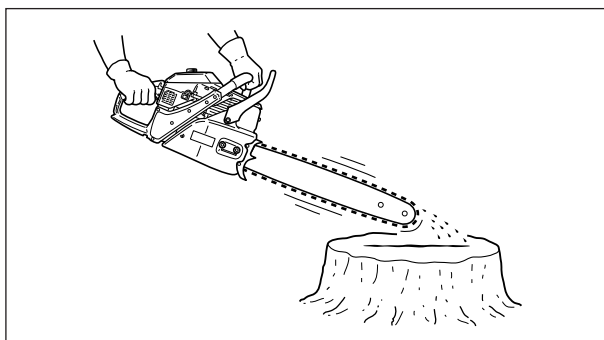
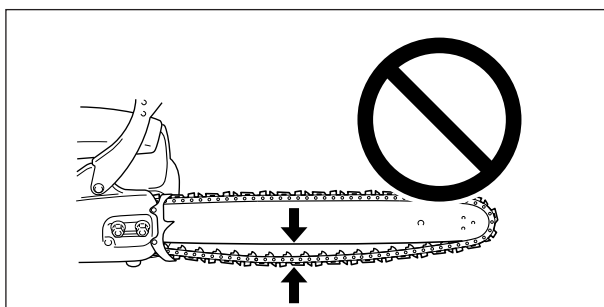
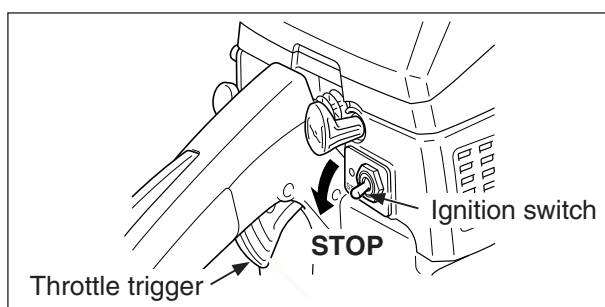
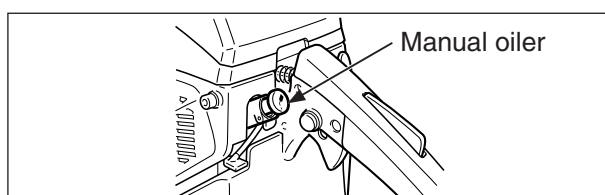
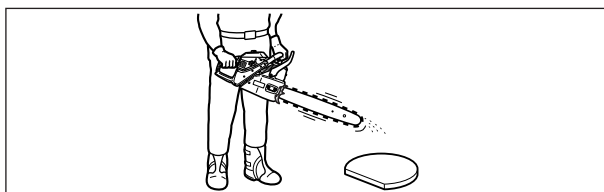
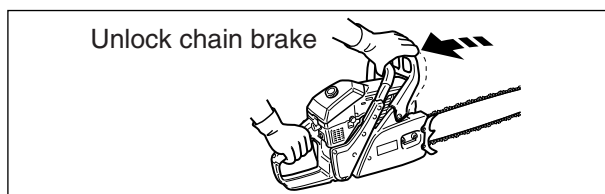
- Move chain brake lever fully forward to lock chain brake before starting.
- Fill the fuel tank with fuel mixture. It is not permitted to fill fuel above the shoulder level of fuel tank.
- Fill the chain oil tank with lubricant. Do not over fill.
- Move ignition switch to “Run” position.
- Pull choke control knob all the way out. (Choke position )
- Securely hold the chain saw as shown and pull starter handle several times until first firing sound.
- Push choke control knob all the way in.
- Pull starter handle again to start the engine.
- When engine starts, immediately squeeze and release throttle trigger for disengaging throttle latch and returning engine to idle, and pull front hand guard towards the operator immediately. (Chain brake unlocked position)

WHEN THE ENGINE IS WARM

⚠ CAUTION

Make sure the bar and chain are free from any obstruction when starting the chain saw.

- Move chain brake lever fully forward to lock chain brake before starting.
- Confirm there is fuel and chain oil in the tanks.
- Move ignition switch to “Run” position.
- Securely hold the chain saw as shown and pull starter handle.
- Choke may be used if necessary, but after first firing sound, pull throttle trigger to release choke.
- After starting the engine, pull front hand guard towards the operator immediately. (Chain brake unlocked position)



RUNNING

- When engine starts, keep idling for a few minutes.
- Set the brake lever in the unlocked position before starting to cut.
- Pull throttle trigger gradually and increase revolution of the engine.
- The chain starts running when the engine reaches 3600 r/min approximately.
- Confirm proper acceleration and lubrication of chain and bar.
- Give several strokes to manual oiler button to confirm extra lubrication.
- Do not run the engine at high speed unnecessarily.
- Be sure that saw chain stops moving when throttle trigger is released.

STOPPING

- Release throttle trigger and move ignition switch down to **STOP** position.

NOTICE

If engine does not stop, pull choke control knob out fully to stop engine.

Return the unit to your authorized ECHO dealer to check and repair stop switch before starting the engine again.

CHECKING CHAIN TENSION

- Chain tension should be checked frequently during work and corrected as necessary.
- Tension the chain as tight as possible, but so it can still be pulled easily along the bar by hand.



CAUTION

Do not operate with a loose chain.

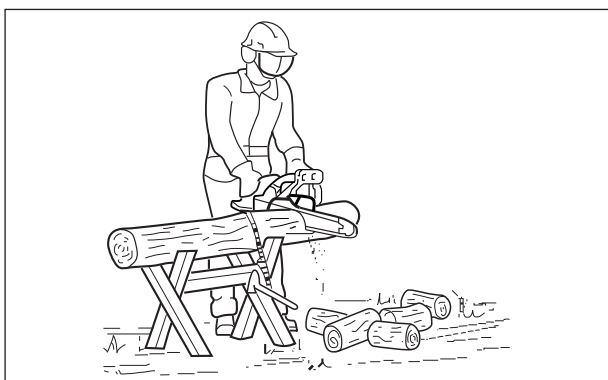
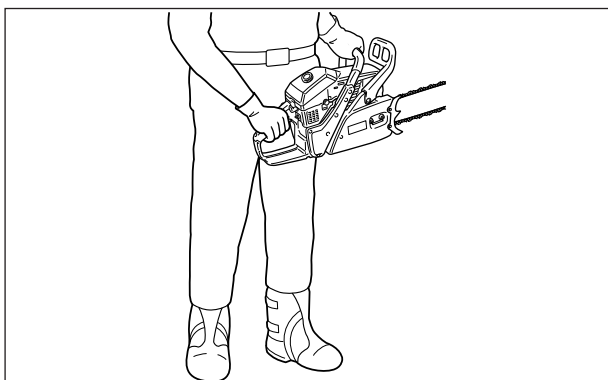
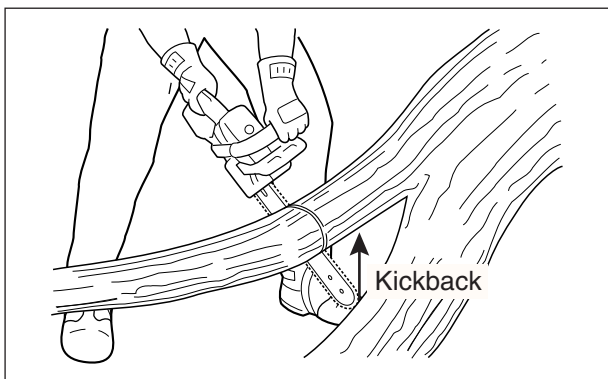
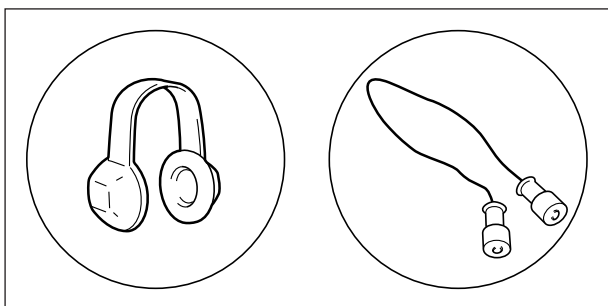
CHAIN LUBRICATION TEST

Hold the chain just above a dry surface and open the throttle to half speed for 30 seconds.

A thin line of “thrown” oil should be seen on the dry surface.

CUTTING INSTRUCTION

GENERAL



CAUTION

- Read the ECHO "CHAIN SAW SAFETY MANUAL" for additional cutting and safety instructions.
- Wear suitable hearing protection such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.
- Do not let the tip of the bar touch anything while the engine is running.
At cutting speed the chain is moving at a high rate of speed.
Should the tip contact a limb or log while the chain is moving, the tip will be pushed upward with considerable force.
This is known as kickback. Avoid it!

In all circumstances the operation of the chain saw is a one-man job.

It is difficult at times to take care for your own safety, so don't assume the responsibility for a helper as well.

After you have learned the basic techniques of using the saw, your best aid will be your own good common sense.

The accepted way to hold the saw is to stand to the left of the saw with your left hand on the front handlebar and your right hand on the rear handle so you can operate the throttle trigger with your right index finger.

Before attempting to fell a tree, cut some small logs or limbs.

Become thoroughly familiar with the controls and the responses of the saw.

Start the engine, see that it is running properly. Squeeze the trigger to open the throttle wide open and start the cut. If the chain is properly sharpened, the cutting should be relatively effortless.

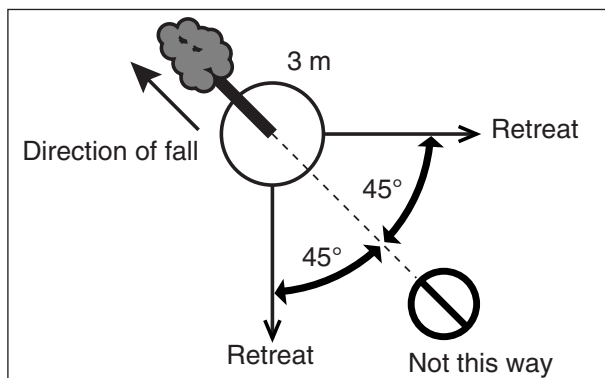
It is not necessary to press down hard to make the saw cut.

Pushing the saw too hard will slow the engine and cutting will actually be more difficult.

Some material may adversely affect the housings of your chain saw.

(Example palm Tree Acid, fertilizer etc.)

To avoid housing deterioration, carefully remove all packed sawdust around clutch and guide bar area and wash with water. Coat metal parts with light oil.



FELLING THE TREE

A falling tree can seriously damage anything it may hit - a car, a house, a fence, a power-line, or another tree.

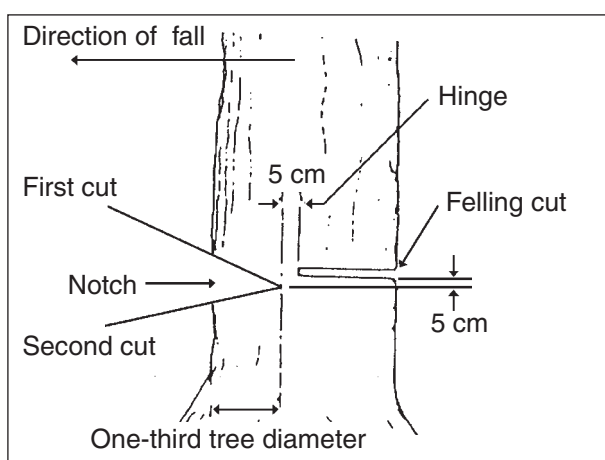
There are ways to make a tree fall where you want it, so first decide where that is!

Before cutting, clear the area around the tree.

You will need good footing while working and you should be able to work the saw without hitting any obstacles.

Next, select a path of retreat.

When the tree begins to fall you should retreat away from the direction of fall at a 45-degree angle and at least 3 m from the trunk to avoid the trunk kicking back over the stump.



Begin the cut on the side to which the tree is to fall. Cut a notch about 1/3 of the way into the tree.

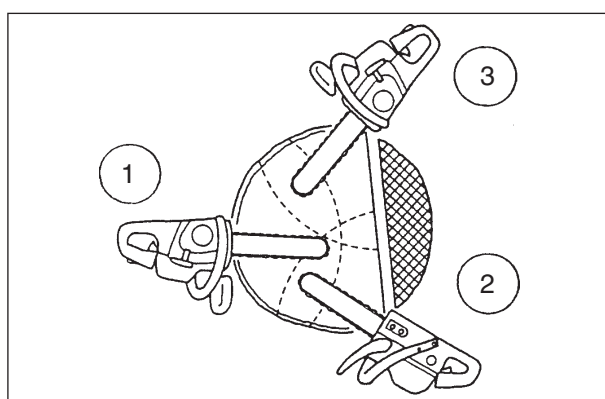
The position of this notch is important since the tree will try to fall "into" the notch.

The felling cut is made on the side opposite the notch and at a level about 5 cm above the bottom of the notch.

Do not try to cut through to the notch with the felling cut.

The remaining wood between the notch cut and felling cut about 5 cm will act as a hinge when the tree falls, guiding it in the desired direction.

When the tree starts to fall, kill the engine, place the saw on the ground and make your retreat quickly.

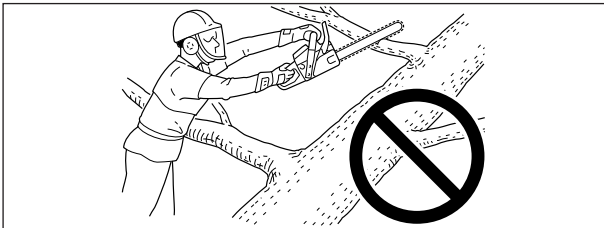
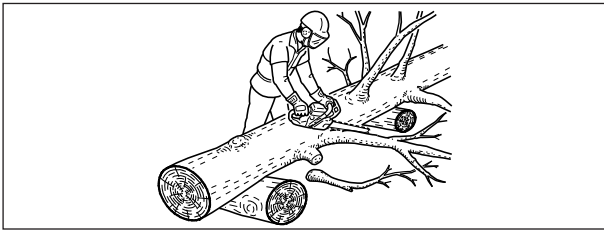


To fell big trees with a diameter exceeding twice the bar length, start the notching cuts from one side and draw the saw through to the other side of the notch.

Start the back cut on one side of the tree, pivoting the saw through to form the desired hinge on that side.

Then remove the saw for the second cut. Insert the saw in the first cut, very carefully so as not to cause kickback.

The final cut is made by drawing the saw forward in the cut to reach the hinge.



LIMBING

Limbing a fallen tree is much the same as bucking.

Never stand on the tree that you are limbing.

When limbing, caution is the word.

Be careful of the tip touching other limbs.

Always use both hands.

Don't cut with the saw overhead or aligned vertically with your body. If the saw should kickback, you may not have enough control to prevent possible injury.

BUCKING

Bucking is the sawing of a log or fallen tree into smaller pieces.

There are a few basic rules which apply to all bucking operations.

Keep both hands on the handles at all times.

Support logs if possible.

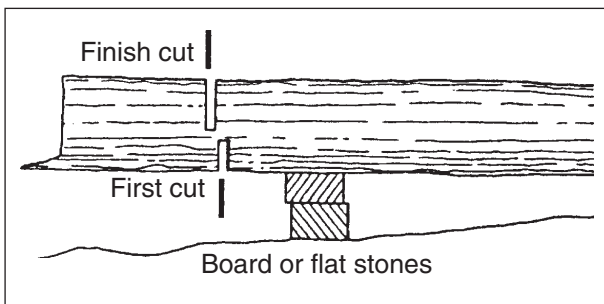
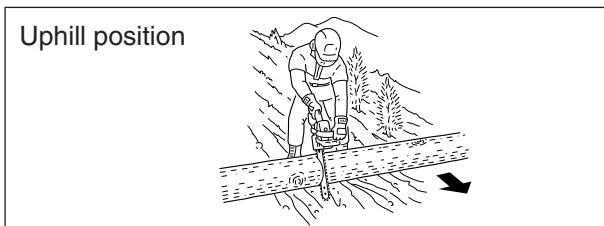
When cutting on a slope or hillside, always stand uphill.

Keep in mind that the wood is heavy and that it will bend and pinch the saw if improperly supported. The trunk will weaken at the point where you make the cut unless the tree is lying on perfectly flat ground or supported as shown.

If you make the cut with the tree on the ground, don't let the saw's chain dig into the earth; it is harmful for the saw, and you stand a good chance of being struck by flying debris.

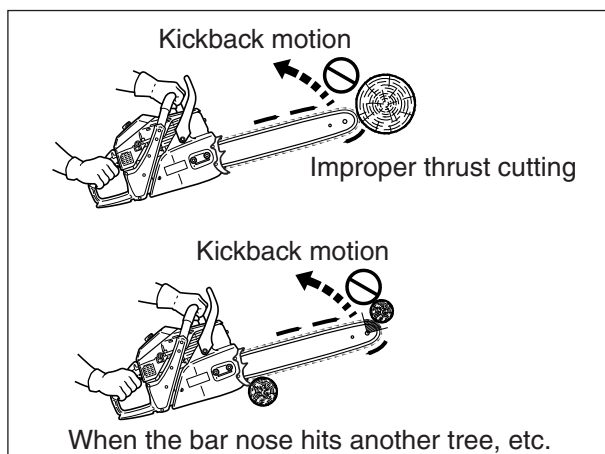
To cut the trunk, use the bucking and two-cut sequence shown.

The first cut should be no deeper than one-third the trunk diameter.



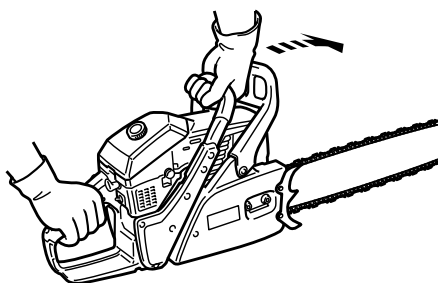
DANGER

- **Kickback is generated when the rotation of the chain is arrested for some reason. The most dangerous effect of this action occurs when the nose of the bar contacts another object, the chain is momentarily stopped and all the energy of the engine throws the bar upwards and backwards towards the operator.**
- **The chain saw industry and government agencies have attempted to prescribe various safety devices, but the best protection is to avoid kickback.**
- **Comply with the safety precautions as listed in this Manual and Safety Manual.**



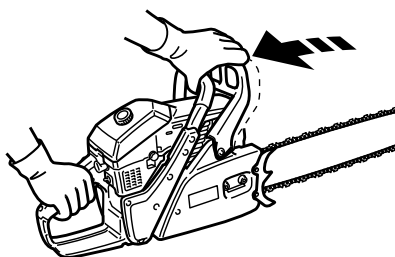
Chain brake function

When the lever is pushed forward, chain brake instantly stops the chain.



Chain brake unlock

When the lever is fully pulled toward the operator, brake is unlocked.



CHAIN BRAKE OPERATION

- Set the lever in the unlocked position before starting to cut.
- If the brake is tripped by kickback reaction, the chain will stop immediately. Release the throttle to avoid possible damage to the engine or clutch.
- Do not attempt to operate the engine with the brake locked.

TESTING THE BRAKE

- Start the engine on a solid level surface and run at a fast idle until warm.
- Hold the saw firmly by the handles and accelerate the engine to a fast idle.
- Slowly operate the chain brake lever while holding the saw firmly on the ground. When the brake lever trips, the chain should stop. Immediately release the throttle trigger.



WARNING

If the chain does not stop immediately, return the saw to your authorized ECHO dealer for repair.

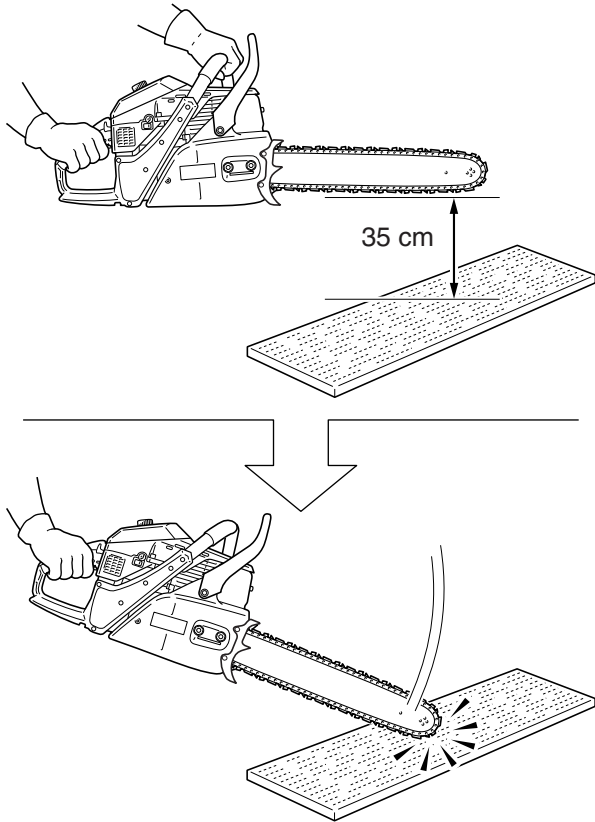
NOTICE

- For practice, while cutting a small tree, push the lever forward to lock the brake.
- Confirm that the brake works properly before each use.
- If the chain brake is clogged with wood chips, function of the brake may deteriorate. Always keep the device clean.
- Do not increase engine revolution while the chain brake is locked.
- Use the chain brake only in starting or in emergencies.
- When using throttle latch at starting, keep the chain brake locked. And after starting the engine, unlock the brake immediately.

IMPORTANT

Do not allow the saw to tip forward in order to avoid damage to the chain.

End of the guide bar may be placed at the height of about 35 cm.



Rear handle should be gripped lightly with the right hand.

AUTOMATIC CHAIN BRAKE

Kickback produced from the tip of the guide bar will trip the automatic chain brake. To make sure that the automatic chain brake operates properly, follow these steps:

1. **Stop the engine.**
2. Hold the saw with the guide bar approximately 35 cm above a wooden surface. Right hand should hold the rear handle, and left hand should hold the front handle.
3. Release the front handle and drop the end of the guide bar against the wooden surface.
4. The impact should lock the chain brake.

IMPORTANT

When checking the operation of the automatic chain brake, use a soft surface substance like wood to provide the impact so the chain is not damaged.

CHAIN AND GUIDE BAR COMBINATION

The following combinations are recommended for model **CS-800P**.

Guide bar		Saw chain		
Length mm (in.)	ECHO Part No.	Pitch mm (in.)	ECHO Part No.	Links
	Symmetrical			
508 (20)	20D0PS3870	9.53 (3/8)	72LPX70CQ	70
610 (24)	24D0PS3881		72LPX81CQ	81
686 (27)	27D0PS3893		72LPX93CQ	93
813 (32)	32D0PS3805		72LPX105CQ	105
914 (36)	36D0PS3816		72LPX116CQ	116

GUIDE BAR

Replacement guide bars.

The following guide bars may be considered to have equivalent kickback energy.

- Sprocket nose guide bars of the same length and nose radius, same pitch and having the same number of teeth.
- Hard nose guide bars of the same length and nose radius as a sprocket nose bar.

SAW CHAIN



CAUTION

Do not use replacement saw chain unless it has been designated as meeting the CSA Z 62.3 kickback performance requirements.

NOTICE

LOW KICKBACK SAW CHAIN meets the kickback performance requirements of CSA Z 62.3.

MAINTENANCE AND CARE

Your ECHO chain saw is designed to provide many hours of trouble free service. Regular scheduled maintenance will help your chain saw 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 ask your ECHO dealer for repairs.

SKILL LEVELS

Level 1 = Easy to do. Most required tools come with unit.

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

ECHO offers **YOU CAN™** 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. Ask your ECHO dealer for these parts.

MAINTENANCE INTERVALS

Component / system	Maintenance procedure	Required Skill level	Daily or Before use	Every refuel	3 Months or 90 Hours	Yearly or 600 Hours
Air Filter	Inspect / Clean / Replace	1	I / C *		R *	
Automatic Oiler	Inspect / Adjust	1	I			
Oil Filter	Inspect / Clean / Replace	1	I		I / C *	
Fuel System	Inspect / Replace	1	I (1) *	I (1) *		
Fuel Filter	Inspect / Replace	1			I *	I / R *
Fuel Cap Gasket	Inspect / Replace	1			I *	R *
Guide Bar and Sprocket Nose	Inspect / Clean / Lubricate	1	I / C *	I		
Saw Chain	Inspect / Sharpen / Replace / Tensioning	2	I *			
Sprocket	Inspect / Replace	2	I *			
Spark Plug	Inspect / Clean / Replace	1			I / C / R *	
Cooling System	Inspect / Clean	2	I / C			
Muffler Spark Arrestor	Inspect / Clean / Replace	2			I / C / R *	
Cylinder Exhaust Port	Inspect / Clean / Decarbon	2			I / C	
Recoil Starter Rope	Inspect / Clean	1	I / C *			
Screws / Nuts / Bolts	Inspect / Tighten / Replace	1	I *			

Maintenance Procedure Letter Codes:

I = Inspect

C = Clean

R = Replace

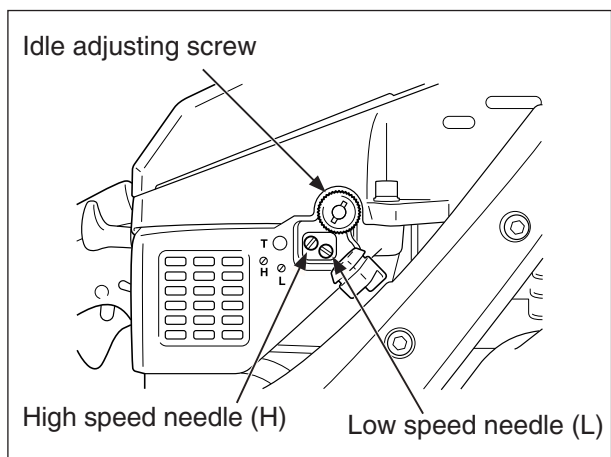
Maintenance Procedure Notes:

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

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

IMPORTANT

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



CARBURETOR ADJUSTMENT

Every unit is run at the factory and the carburetor is set in compliance with Emission Regulations. In addition, the carburetor is equipped with "H" (High Speed) and "L" (Low Speed) needle adjustment limiters that prevent settings outside acceptable limits.

1. Before adjusting carburetor clean or replace air filter and muffler "Spark Arrestor Screen".
2. Make sure the bar and chain are properly adjusted.
3. Start engine and run several minutes to bring to operating temperature.
Flash choke twice during warm-up to clear any air from the fuel system.
4. Stop engine.
Turn "H" speed needle counterclockwise (CCW) to stop.
Turn "L" speed needle midway between full clockwise (CW) stop and CCW stop.
5. Idle Speed Adjustment:
 - Start engine, turn "Idle" speed adjustment screw CW until the saw chain begins to turn, then turn screw out CCW until the saw chain stops turning.
Turn screw out, CCW, an additional ¼ turn.



WARNING

Cutting attachment must not move when unit is idling.

High Altitude Operation

This engine has been factory adjusted to maintain satisfactory starting, emission, and durability performance up to 330 m above sea level (ASL) (96.0 kPa).

To maintain proper engine operation and emission compliance above 330 m ASL the carburetor may need to be adjusted by an authorized ECHO service dealer.

IMPORTANT

If the engine is adjusted for operation above 330 m ASL, the carburetor must be readjusted when operating the engine below 330 m ASL, otherwise severe engine damage may result.

6. Accelerate to full throttle for 2 - 3 seconds to clear any excess fuel in the engine, then return to idle.
Accelerate engine to full throttle to check for smooth transition from idle to high speed.
If engine hesitates turn "L" needle CCW 1/8 turn and repeat acceleration.
Continue adjustment until smooth acceleration results.
7. Check idle speed and reset if necessary as described in item 5.
If a tachometer is available idle speed should be set to 2800 r/min.

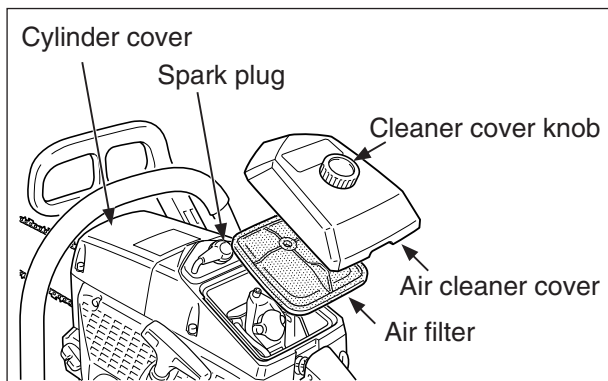


CAUTION

When starting, idling adjustment speed should be adjusted not to rotate the saw chain.

Correct idle speed is adjusted 2800 r/min. Or ¼ turn CCW from the point the chain stops moving.

When you experience trouble with the carburetor, contact your dealer.

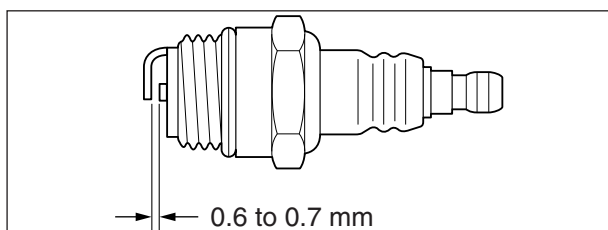


AIR FILTER

- Check before every use.
- Close choke (I↔I).
- Turn cleaner cover knob counterclockwise by hand and remove air cleaner cover and air filter.
- Brush off dust lightly, or wash it in suitable cleaning fluid if necessary, or replace the air filter.
- Dry it completely before installation.
- Reinstall air filter and cover.

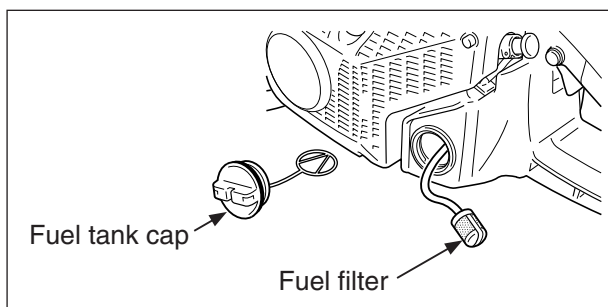
CHECK FUEL SYSTEM

- Check before every use.
- After refueling, make sure fuel does not leak from around fuel pipe, fuel grommet or fuel tank cap.
- In case of fuel leakage there is a danger of fire. Stop using the machine immediately and request your dealer to inspect or replace.



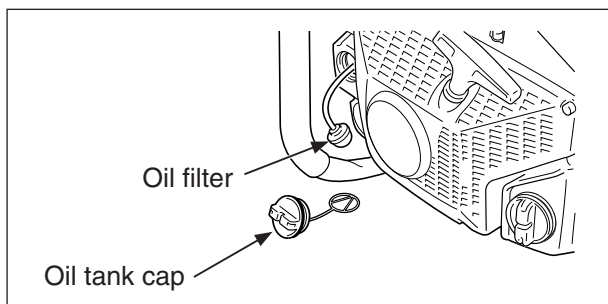
SPARK PLUG

- Check periodically.
- The standard spark gap is 0.6 to 0.7 mm.
- Correct the spark gap if it is wider or narrower than the standard gap.
- Fastening torque: 15 to 17 N·m (150 to 170 kgf·cm).



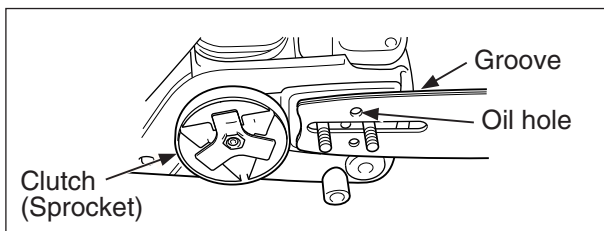
FUEL FILTER

- Check periodically.
- Do not allow dust to enter fuel tank.
- A clogged filter will cause difficulty in starting engine or abnormalities in engine performance.
- Pull the fuel filter out through fuel inlet port with a piece of steel wire or the like.
- When the filter is dirty, replace it.
- When the inside of the fuel tank is dirty, rinsing the tank out with gasoline can clean it.



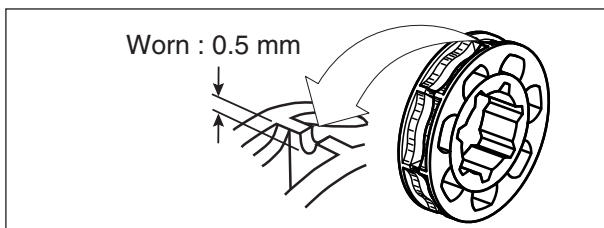
OIL FILTER

- Check periodically.
- Do not allow dust to enter into oil tank.
- A clogged oil filter will affect the normal lubricating system.
- Pull it out through oil filling hole with a piece of steel wire or the like.
- If the filter is dirty, wash it in gasoline or replace it.
- When the inside of the tank gets dirty, rinsing the tank out with gasoline can clean it.



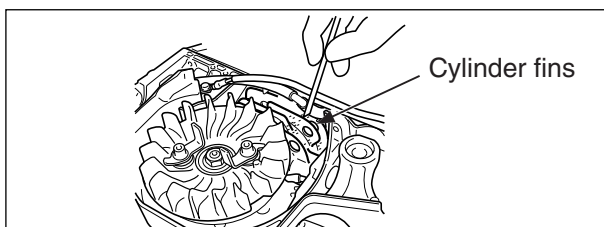
GUIDE BAR

- Clean before using.
 - Clean the groove of the guide bar with a small screwdriver.
 - Clean oil holes with a wire.
- Reverse guide bar periodically.
- Check sprocket and the clutch and clean the bar mount area before installation of the bar. Replace either or both if worn.



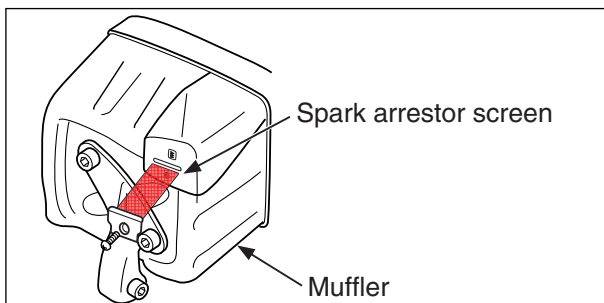
SPROCKET

- A damaged sprocket will cause premature damage or wear of saw chain.
 - When the sprocket has worn out 0.5 mm or more, replace it.
- Check sprocket when you install new chain. Replace it if worn.



CYLINDER FINS

- Check periodically.
- Clogged fins will result in poor engine cooling.
- Remove dirt and dust from between fins to let cooling air pass easily.

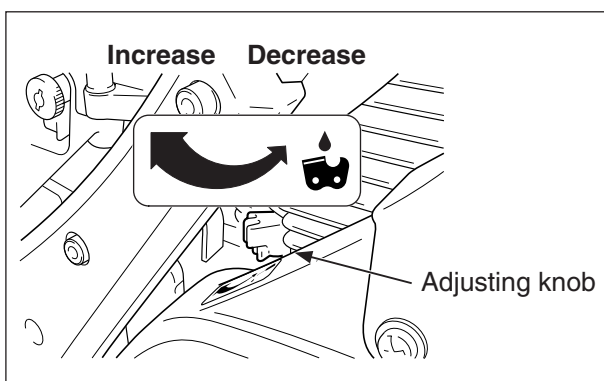


MUFFLER SPARK ARRESTOR

- Remove air cleaner cover and remove spark plug lead.
- Remove spark arrestor screen from muffler body.
- Clean carbon deposits from muffler components.
- Replace screen if it is cracked, or has holes burned through.
- Assemble components in reverse order.

NOTICE

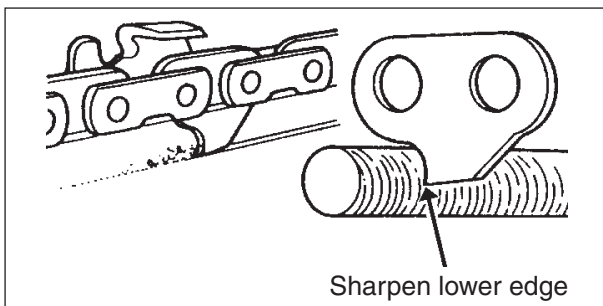
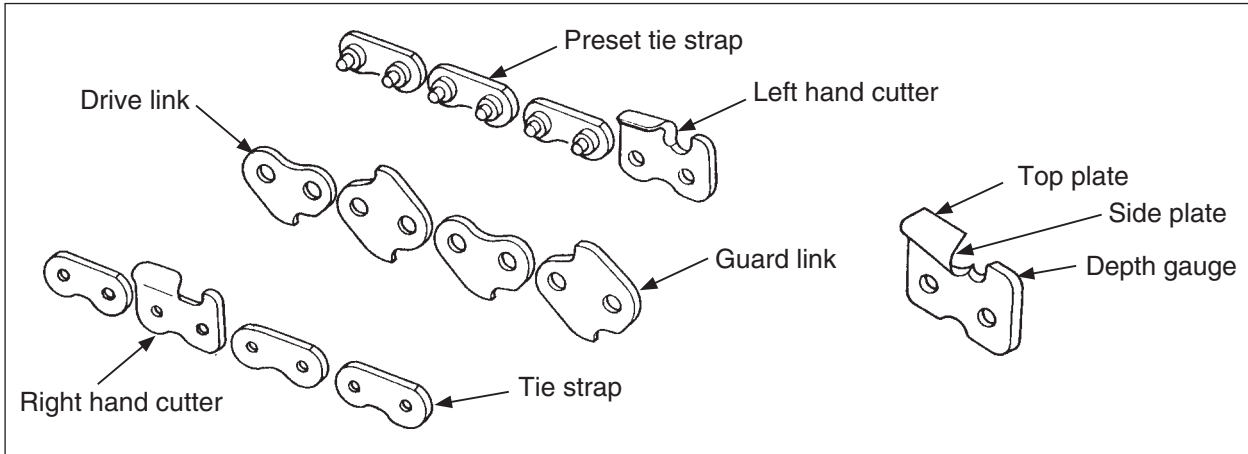
Carbon deposits in muffler will cause drop in engine output. Spark arrestor screen must be checked periodically.



AUTOMATIC OILER

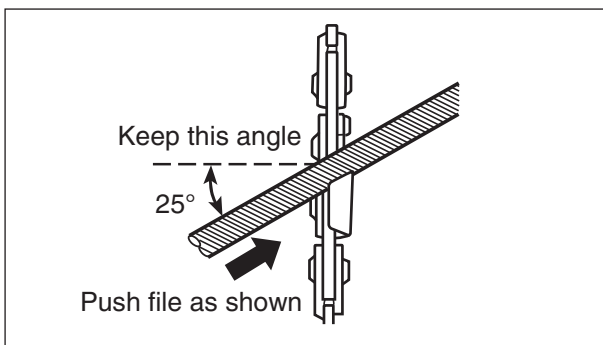
- The discharge volume of the automatic oiler is adjusted to 8 mL/min approximately at 7000 r/min, prior to shipment from factory.
 - To increase the delivery volume, turn the adjusting knob clockwise. When the knob touches stopper and stops, this position indicates maximum discharge volume. (15 mL/min at 7000 r/min)
 - Do not turn the adjusting knob beyond the maximum or minimum limit of volume adjustment.

SETTING THE SAW CHAIN



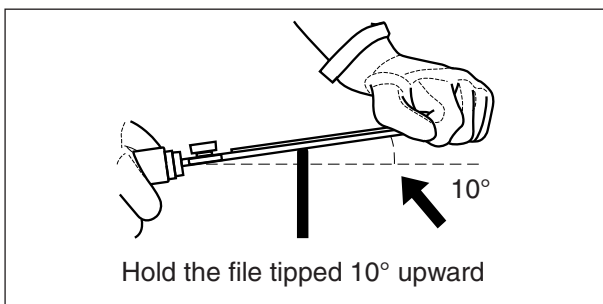
Important points for proper maintenance of saw chain:

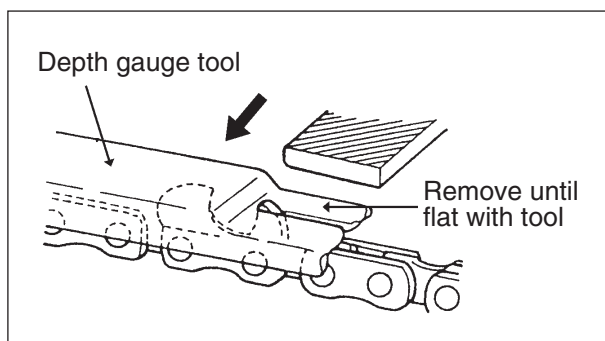
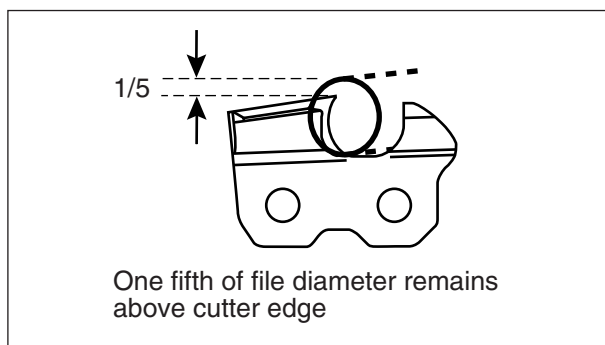
- Keep the cutters sharp at all times.
- Keep the left and the right cutters properly aligned.
 - Note that blunt or irregular cutters will result in poor cutting performance, increased vibration of chains and premature breakage of the saw chain.
- Drive link serves to remove sawdust from the groove of the guide bar. Keep the lower edge of the drive link sharp where indicated.



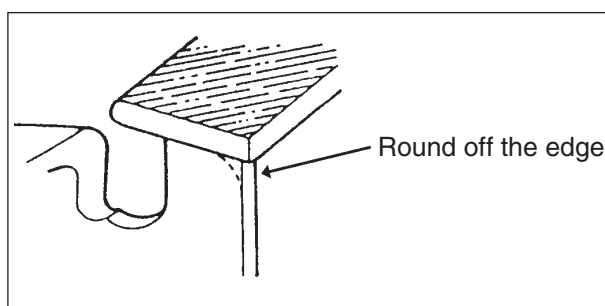
SETTING SAW CHAIN

- For setting saw chain, round file 5.5 mm (7/32 in.) diameter and flat file are used.
- To keep correct position and correct angle, use the file holder (Sure Sharp®).

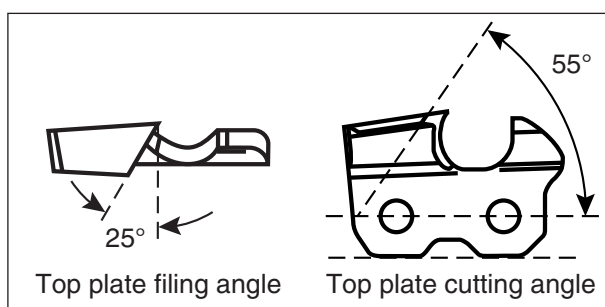




- Place the depth gauge tool firmly on guide bar so that depth gauge protrudes. Then file top of depth gauge with the flat file until flat with top of the depth gauge tool.



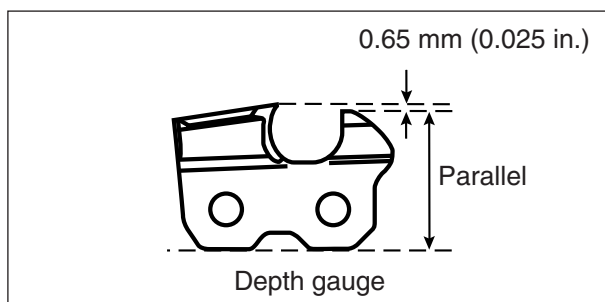
- Be sure to round off the front edge of the depth gauge.



Properly filed cutters are shown in illustration.

When setting of the chain is finished, soak it in oil and wash away filings completely before using.

- When chain has been filed on the bar, supply sufficient oil to it, rotate the chain slowly to wash away the filings before using again.
- If the chain saw is operated with filings clogged in the groove, the saw chain and the guide bar will be damaged prematurely.
- If the saw chain becomes soiled with resin, for instance, clean it with kerosene and soak in it oil.



NOTICE

These angles are referred to as Oregon 72LPX. To sharpen other follow chain manufacturer's instruction.

TROUBLESHOOTING

Problem			Cause	Remedy
Engine	— hard to start — does not start			
Engine cranks	Fuel at carburetor	No fuel at carburetor	• Fuel filter clogged • Fuel line clogged • Carburetor	• Clean or replace • Clean • Ask your ECHO dealer
	Fuel at cylinder	No fuel at cylinder	• Carburetor	• Ask your ECHO dealer
		Muffler wet with fuel	• Fuel mixture is too rich	• Open choke • Clean / replace air filter • Adjust carburetor • Ask your ECHO dealer
	Spark at end of plug wire	No spark at end of plug wire	• Ignition switch off • Electrical problem	• Turn switch on • Ask your ECHO dealer
	Spark at plug	No spark at plug	• Spark gap incorrect • Covered with carbon • Fouled with fuel • Spark plug defective	• Adjust 0.6 to 0.7 mm • Clean or replace • Clean or replace • Replace plug
Engine does not crank			• Internal engine problem	• Ask your ECHO dealer
Engine runs	Dies or accelerates poorly		• Air filter dirty • Fuel filter dirty • Fuel vent blocked • Spark plug • Carburetor • Cooling system blocked • Exhaust port / spark arrestor screen blocked	• Clean or replace • Clean or replace • Clean • 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 by grounding spark plug near cylinder plug hole, otherwise serious personal injury may result.

STORAGE AFTER USE

- Inspect and adjust every part of the chain saw.
 - Completely clean every part and repair if necessary.
 - Apply thin coating of oil on metal parts to prevent rust.
- Remove chain and guide bar.
- Drain fuel tank, pull starter slowly a few times to drain fuel from carburetor.
- Pour a small amount of clean motor oil into spark plug hole, pull starter and crank the engine until piston reaches: TOP DEAD CENTER.
- Store in a dry area, free from dust.



WARNING

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



CAUTION

Do not lend or rent your chain saw without the Operator's Manual.

NOTICE

- For future reference, you should keep this Operator's Manual.
- If this Operator's Manual has become illegible or is lost, please purchase a new one from your ECHO dealer.

IMPORTANT

Acids from decaying palm tree sap may corrode crankcase and oil tank housings made of aluminum and magnesium alloys.

To minimize the chance of this occurring, make sure to follow the cleaning procedure listed below.

Make sure to clean metal parts from palm sap **immediately** after use.

- Remove sprocket cover.
Clean wood chips and sawdust from cover and engine crankcase.
- Never use metal tools for cleaning which may scratch the metal paint and allow corrosion to develop.
- Clean sap accumulation from metal parts with cloth and warm water soap.
- Rinse with clean water and dry metal surfaces.
- Apply a light coating of engine or bar and chain oil to metal parts after they are cleaned.

TECHNICAL DATA

MODEL			CS-800P
Dimension	L × W × H	mm	421 × 244 × 311
Mass	Power head, dry	kg	7.6 Without chain and guide bar
Engine	Type		Air-cooled two-stroke single cylinder
	Displacement	mL (cm ³)	80.7
	Carburetor		Diaphragm type
	Magneto		Flywheel magneto: CDI system
	Spark plug		NGK BPMR7A
	Starter		Recoil starter
	Power transmission		Automatic centrifugal clutch
Fuel	Mixture ratio		50 : 1 ratio with ISO-L- EGD (ISO/CD 13738) and JASO M345-FD two-stroke, air-cooled engine oil.
	Gasoline		Use 89 octane unleaded. Do not use fuel containing methyl alcohol, more than 10 % ethyl alcohol or 15 % MTBE. Do not use alternative fuels such as E-15 or E-85.
	Tank capacity	L	0.820
Oil	Bar and chain		ECHO bar and chain oil
	Tank capacity	L	0.400
Guide bar and saw chain			See page 23 for Chain and Guide Bar Combination
	Lubrication		Adjustable automatic oil pump and manual oil pump
Engine speed	Idle	r/min	2800 - 3000
	Clutch engagement		3500 - 4000
	Wide open throttle		11500 - 12500
Standard features			Front hand guard, Rear hand guard, Anti-vibration device, Spiked bumper, Throttle control lockout, Chain brake, Chain catcher, Spark arrestor muffler

* Technical data subject to change without notice.

WARRANTY REGISTRATION SHEET

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

ONLINE OPTION: Register online and save a stamp! You will be alerted of product updates and/or be sent new ECHO product information and special offers. Simply go to:
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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 las ofertas especiales. Simplemente visite:
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OPTION EN LIGNE : Enregistrer en ligne et épargner un timbre! Vous serez informé sur les nouveaux produits ECHO et les mises à jour de produit ainsi que les offres spéciales. Simplement visitez le: www.echo-usa.com

Please Print : Por Favor Escriba Con Letra De Molde : En Lettre Carré S.V.P.

Confidential: Information provided will not be shared or sold

Purchaser's Name : Nombre del Comprador : Nom de l'acheteur

Address : Dirección : Adresse

City : Ciudad : Ville State : Estado : Province Zip Code : Código Postal : Code Postal

E-Mail Address : Dirección De Correo Electrónico : Courrier Électronique

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 ownership in the event of loss. : El registrar su compra nos permite estar en contacto con usted en caso de cualquier evento como el aviso de tiempo de servicio o la revocación del producto y verificación de propiedad en caso de robo o pérdida. : Le registre votre achat nous permet de vous contacter en cas de mise à jour de service ou de rappel du produit et vérifiez 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 ☐ Residential ☐ 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
Visité 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 ☐ Price ☐ Dealer
☐ Reliability ☐ Prior Experience ☐ Quality
☐ Friend/Family ☐ Brand ☐ Warranty

¿Qué factor(es) influyó más en su compra?

☐ Funcionamiento ☐ Precio ☐ Distribuidor
☐ Confiabilidad ☐ Experiencia Anterior ☐ Calidad
☐ Amigo/Familia ☐ Marca ☐ Garantía

Quel facteur (facteurs) vous a influencé le plus?

☐ Performance ☐ Prix ☐ Marchand
☐ Fiabilité ☐ Expérience ☐ Qualité
☐ Ami/Famille ☐ Marque ☐ Garantie

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