

Operator's Manual HCA-2620/S Articulating Hedge Trimmer

WARNING

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

WARNING



Read and understand all provided literature before use. Failure to do so could result in serious injury.

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

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INTRODUCTION

Specifications, descriptions, and illustrative material in this literature are as accurate as possible. Specifications are subject to change without notice. Illustrations might include optional equipment and accessories, and might not include all standard equipment. Your equipment might appear slightly different than pictured 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







SERVICING INFORMATION

SERVICING INFORMATION

Parts and Serial Number

Genuine ECHO parts and assemblies for your ECHO products are available only from an Authorized Service Dealer. When you do need to buy parts, always have the model number and serial number of the unit with you. Image shows serial number location. 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 Service Dealer. For the name and address of the Authorized Service Dealer nearest you, ask your retailer or call 1-800-432-ECHO (3246). Authorized Service Dealer information is also available on our website 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 1-800-432-ECHO (3246) from 8:00 a.m. to 5:00 p.m. (Central Standard Time) Monday through Friday. Before calling, please know the model and serial number of your unit.

Product Registration

Register your ECHO equipment online 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 Literature

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In addition to finding information online, information is available from your Authorized Service Dealer, or by contacting ECHO Incorporated, 400 Oakwood Road, Lake Zurich, IL 60047, 1-800-432-ECHO (3246).



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.

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 COULD lead to serious personal injury or death if not avoided.

The safety alert symbol accompanied by the word "CAUTION" calls attention to an act or condition which might 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.	Η	Carburetor adjustment - high speed
	Wear eye, ear and head protection.	Т	Carburetor adjustment - idle speed
	Wear hand and foot protection.		Carburetor adjustment - low speed
	Safety/alert	STOP	Stop switch
	Hot surface	 + ↓	Fuel and oil mixture
	Finger severing		Do not operate closer than 15 m (50 ft.) from electrical hazard.
Â	Avoid all power lines.	***	Plan retreat path from falling objects.
	Do not allow flames or sparks near fuel.	Ignition ON I	Ignition ON / OFF

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Symbol	Description	Symbol	Description
	Do not smoke near fuel.	€	Purge bulb
	Choke control run position (choke open)	4	Choke control cold start position (choke closed)
علا	Wear slip resistant footwear.	۵ N	Chain lubrication
	Do not cut branches overhead.		Chain indition

Note: Not all symbols will appear on your unit.





Personal Condition and Safety Equipment

WARNING

Cancer and Reproductive Harm www.P65Warnings.ca.gov





The muffler or catalytic muffler and surrounding cover may become extremely hot. If unit is equipped with muffler, always keep clear of exhaust and muffler area, otherwise serious personal injury might occur.

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 (not included) can 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 and Ear Protection

ECHO recommends wearing personal protective equipment 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 with bare feet.
- 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 can 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 and Extreme Conditions

Prolonged exposure to cold and/or vibration can result in injury. Read and follow all safety and operation instructions to minimize risk of injury. Failure to follow instructions can 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.

A 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 can result.

A DANGER

Do not operate gas-powered products 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 for instructions on safe operation.

Clear the Work Area

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

Keep a Firm Grip

 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.

Avoid Hot Surfaces

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



Equipment

WARNING

Non-approved equipment hazard. Using attachments, attachment combinations, or accessories not approved by ECHO Incorporated may cause serious injury. Use attachments, attachment combinations, or accessories that are tested and approved by ECHO Incorporated.

ECHO Incorporated will not be responsible for the failure of cutting devices, attachments or accessories which have not been by approved by ECHO.

- Do not modify this product or serious injury can result.
- · Check unit for loose or missing nuts, bolts, and screws. Tighten or replace as needed.
- Inspect debris shield and cut-off knife for damage and ensure proper installation.
- Check that the cutting attachment is firmly attached and in safe operating condition.
- · Verify that the manufacturer recommended line is installed in the trimmer head.

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- Ensure throttle trigger, throttle trigger lockout, and stop switch work properly.
- Check that handle and harness (if included) are installed and adjusted for safe, comfortable operation.

WARNING

Moving parts hazard. Contact with moving parts can cause serious injury. Keep hands, clothing and loose objects away from all openings and moving parts.

- Always stop engine, disconnect spark plug lead, allow unit to cool.
- Make sure all moving parts have come to a complete stop before removing obstructions, clearing debris, or servicing the unit
- Do not connect spark plug lead to spark plug until unit is ready for use.
- 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
- .Position wiring safely to prevent snagging, separation of connectors, or breakage during operation. Gather excess wire, and secure with wiring clamp if provided on equipment, or tuck behind the air filter area. Do not place wiring directly against hot engine components.
- Check wiring and connectors for nicks, cuts, exposed wire, or other damage, and repair or replace as needed. Exposed wire or connectors can cause shocks, sparks, and risk of fire or explosion, resulting in serious injury
- Check wire terminals for secure connections.

Fuel system hazard. A leaking or damaged fuel system may cause fire and serious injury. Periodically check fuel system (fuel lines, vent, grommet, fuel tank, and fuel cap) for damage or leaks, especially if the unit is dropped. If damage or leaks are found, do not use unit. Have unit repaired by an Authorized Service Dealer.



E

EMISSION CONTROL

CARB and EPA Emission 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

EMISSION CONTROL INFORMATION ENGINE FANILY: EDENOS.0214EQ DISPLACEMENT: 21.200 EMISSION COMPLIANCE PERIOD: SOHOURS THIS ENGINE MEETS 2013 U.S.EPA EXHVENP & CALIFORNIA EXHVENP EMISSION REQULATIONS FOR S.O.R.E. REFER TO UNKER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.

YAMABIKO CORP. MMM/YYYY

line emission control system is EVAP (evaporative emissions). Evaporative emissions for California models are only applicable to fuel tanks and fuel feed lines.

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: CERXS.0214KL DISPLACEMENT: 21.200 EMISSION COMPLIANCE PERIOD: SOOHOUTS THIS ENGINE MEETS 2012 U.S. EPA EXPLOYEP & CALIFORNIA EXPLEYE EMISSION REGULATIONS FOR S.O.R.E. REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS. YAMABIKO CORP. MMM/YYYYY

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) or etching(s) on your unit. Make sure they are legible, and that you understand and follow the instructions. If any cannot be read, replacements can be ordered from your Authorized Service Dealer. Images shown below are for example only. Those on your unit might appear slightly different.





DESCRIPTION

- 2. Top guard
- 3. Spark arrester muffler or spark arrester muffler with catalyst
- 4. Fuel tank
- 5. Fuel tank cap
- 6. Choke lever
- 7. Air filter
- 8. Purge bulb
- 9. Recoil starter handle
- 10. Power head
- 11. Throttle handle for right hand
- 12. Throttle trigger
- 13. Throttle trigger lockout
- 14. Stop switch
- 15. Hanger (HCA-2620 only)
- 16. Support handle for left hand
- 17. Drive shaft assembly
- 18. Blade adjustment handle
- 19. Gear case
- 20. Blade guard
- 21. Blades
- 22. Blade cover
- 23. Shoulder harness (HCA-2620 only)



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 / drive shaft assembly
- 1 Gear case assembly
- 1 Operator's manual
- 1 Warranty statement
- 1 Shoulder harness (HCA-2620 only)
- 1 Blade cover

ASSEMBLY

Support Handle Assembly

For HCA-2620S only.

Label (A) shows minimum spacing for support handle location.

Position support handle in comfortable operating position and tighten handle screws.



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Gear Housing Assembly to Drive Shaft Assembly

A WARNING

Sharp, moving blades. Contact with blades could cut hands and fingers. Wear protective gloves.

- 1. Remove locating bolt (A).
- 2. Loosen clamping bolt (B).
- 3. Remove vinyl cap from drive shaft.



- Slide gear housing assembly (C) onto drive shaft (D) and engage flex drive shaft into driver gear.
- Turn gear housing assembly (C) clockwise or counterclockwise to align locater hole in gear case with locator hole in drive shaft.
- 6. Install locating bolt (A).
- 7. Tighten clamping bolt (B).







Shoulder Harness Assembly

- 1. Loosen harness clamp screw (A).
- 2. Put harness on and attach it to harness clamp ring (B).
- Move harness forward or backward to obtain a comfortable operating position.
- 4. Tighten harness clamp screw (A).

OPERATION



Fuel



Diesel fuels and alternative fuels, such as E15 (15% ethanol), E85 (85% ethanol) or any fuels not meeting ECHO requirements are not approved for use in ECHO two-stroke or hybrid fourstroke 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 fresh (purchased within the last 30 days from the pump) 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 two-stroke and two or four-stroke hybrid engines.

Two-Stroke Oil - A two-stroke engine oil, such as ECHO branded twostroke oils, meeting ISO-L-EGD (ISO/CD 13738) and J.A.S.O. FD Standards must be used. ECHO branded two-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-<u>FD</u> certified oil will void the two-stroke engine warranty.

WARNING

Two-stroke engine oil contains petroleum distillates and other additives that may be harmful if swallowed. Heated oil can release vapors that can cause flash fire, or ignite with explosive force. Read and follow the oil manufacturer's instructions, and observe all safety warnings and precautions for handling flammable liquids. For more detailed safety and first aid information, visit www.echo-usa.com for a copy of the Material Safety Data Sheet.

- Keep out of reach of children.
- If swallowed, do not induce vomiting. Call physician or a poison control center immediately.
- Wear safety glasses when mixing or handling.
- Avoid repeated or prolonged skin contact.
- · Avoid inhaling oil mists or vapors.

NOTICE

ECHO branded two-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

A DANGER

Fuel is 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.
- Use caution when handling fuel. Mix and pour fuel outdoors where there are no sparks and flames. Slowly remove the fuel cap only after stopping the engine and allowing the unit to cool. Do not smoke while fueling or mixing fuel. Move the unit at least 3 m (10 ft.) from the fueling point before starting the engine.

Gasoline vapor is heavier than air, and can travel along the ground to nearby sources of ignition such as electrical motors, pilot lights, and hot or running engines. Vapors ignited by an ignition source can flash back to the fuel container, resulting in an explosion, fire, serious or fatal injuries, and extensive property damage.

Mixing Instructions

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

Fue	to Oil Mi	x – 50:1 F	Ratio
U	S	Me	tric
Gas	Oil	Gas	Oil
gal.	fl. oz.	L	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.

After use

• 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 days, or ninety days when a fuel stabilizer is added.

<u>NOTICE</u>

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.

Adjusting the Cutting Angle



Hedge trimmer blades are sharp. Gear case assembly becomes hot during use. Contact with blades or gear case can cause cuts and burns to fingers and hands. Wear protective gloves. Adjust cutting assembly with engine off. Always hold assembly by blade adjustment handle when adjusting cutting angle. Do not stand hedge trimmer upright when adjusting angle, as serious personal injury may result.

1. Place unit on a flat surface with blade cover (A) facing up.





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- 2 Hold blade adjustment knob (B) and squeeze blade lock levers (C) and (D) together.
- 3. Rotate blade to desired position.
- Release blade lock levers (C) 4. and (D) to lock blade.



Note: Install blade cover and place cutter assembly in folded/ locked position for storage or transport



Sharp, moving blades and parts. Contact with blades or moving parts could cut hands and fingers. Wear protective equipment. Keep hands, clothing and loose objects away from all openings. Adjust carburetor to assure blades do not move at idle or see your Authorized Service Dealer.

Starting Cold Engine

Note: Use the blade cover for transportation and storage. Remove before use.

Move stop switch (A) away 1. from STOP position.



- 2. Move choke (B) to Cold Start (closed) position.
- Pump purge bulb (C) until fuel 3. is visible and flows freely in clear fuel tank return line. Pump bulb an additional five times.





OPERATION

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4 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 (D) until engine starts (or maximum five pulls).



5. After engine starts (or five pulls), move choke (B) to 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 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 five pulls, repeat steps 2 - 5.

After engine warm-up, grip the throttle handle and support handle. 6. Depress the throttle trigger lockout, and gradually depress throttle trigger to increase engine RPM to operating speed.

Starting Warm Engine

Move stop switch (A) away 1. from STOP position.



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



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OPERATION

 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 (D) until engine starts.

Note: If engine does not start after five pulls, use cold start procedure.



Stopping Engine

Note: If engine does not stop when stop switch is moved to STOP position, close choke (cold start position) to stall engine. Have your Authorized Service Dealer repair stop switch before using unit again.

- 1. Release throttle and allow engine to return to idle.
- Move stop switch (A) to STOP position.



Hedge Trimming



Falling debris. Material cut directly overhead can fall on operator. Avoid cutting directly overhead.



Blade obstructions. Contact with blades could cut hands and fingers. Wear protective gloves. Never remove hands from unit when blades are moving. Stop engine and disconnect spark plug lead from spark plug before removing obstructions.

WARNING

Hot exhaust and hot gear case. Breathing hot exhaust is poisonous and contact with skin could burn. Gear case is hot and contact with skin could burn. Wear protective gloves Grip throttle handle with right hand and support handle with left hand during use.

- 1. Hold trimmer firmly and squeeze throttle trigger to accelerate engine.
- 2. Tilt trimmer so cutting teeth are angled slightly toward the hedge or shrub and proceed to cut.

MAINTENANCE

WARNING

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

Operating a poorly maintained unit can result in serious injuries to operator or bystanders. Always follow all maintenance instructions as written, otherwise serious personal injury can result.

Your unit is designed to provide of trouble-free service. Perform regular scheduled maintenance. If you are unsure about the task, or are not equipped with the necessary tools, we recommend that you take your unit to an Authorized Service Dealer for maintenance. To help you decide whether you want to do it yourself or have the Authorized Service Dealer do it, each maintenance task has been graded. If a task is not listed, see your Authorized Service Dealer for repairs.

NOTICE

The use of emission control components other than those specifically designed for this unit is a violation of federal law.

Skill Levels

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

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

Level 3 = See your Authorized Service Dealer.

Click HERE or go to http://www.echo-usa.com/products/maintenance-kit

or

https://www.shindaiwa-usa.com/you-can.aspx

Maintenance Intervals

NOTICE

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

COMPONENT OR SYSTEM	MAINTENANCE PROCEDURE	SKILL LEVEL
Daily or Before Use		
Air filter	Inspect/Clean*	1
Choke shutter	Inspect/Clean	1
Fuel system	Inspect ³	1
Cooling system	Inspect/Clean	2
Recoil starter rope	Inspect/Clean*	1
Screws/nuts/bolts	Inspect/Tighten/Replace*	1
Blades	Inspect/Clean ²	1
Every Refuel		
Fuel system	Inspect ³	1

COMPONENT OR SYSTEM	MAINTENANCE PROCEDURE	SKILL LEVEL
3 Months		
Air filter	Replace*	1
Fuel filter	Inspect*	1
Fuel cap gasket	Inspect*	1
Spark plug	Inspect/Clean/Replace*	1
Muffler spark arrester	Inspect/Clean/Replace*	2
Cylinder exhaust port	Inspect/Clean/Remove carbon deposits	2
Gear housing	Grease ¹	2
Yearly	•	
Fuel filter	Inspect/Replace*	1
Fuel cap gasket	Replace*	1

¹ Apply lithium-based grease every 25 hours of use.

² Inspect blade. Clean and sharpen as needed. Lubricate blades periodically during use.

³ Low evaporative fuel tanks do not require regular maintenance to maintain emission integrity.

* Replace if worn or damaged.



Air Filter

Level 1

Parts required: Tune-up kit.

- 1. Close choke (COLD START position).
- 2. Brush accumulated dirt from air filter area
- 3. Remove air filter cover.
- 4. Brush dirt from inside cover.
- 5. Ensure throttle wire retaining clip (A) remains in place as shown when removing or installing air filter cover.
- 6. Remove foam pre-filter (B), filter cage (C), and air filter (D).
- 7. Clean foam pre-filter in water/ detergent solution and rinse with clean water.
- 8. Wrap pre-filter in a clean, dry cloth and squeeze (do not wring) dry. Allow to dry completely before reuse. Do not oil.
- Brush debris from air filter. 9 R Replace if damaged, fuel soaked, very dirty, or rubber sealing edges are deformed.
- 10. Install air filter (D) with pleats oriented vertically.
- 11. Assemble filter cage (C).
- 12. Assemble foam pre-filter (B).
- 13. Assemble engine cover.







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Fuel Filter

Level 1

Parts required: Tune-up kit.



Fuel is flammable. Do not allow flame or spark near fuel. Use extreme care when mixing, handling, or storing.

- Use a clean cloth to remove loose dirt from around fuel cap area.
- 2. Empty fuel from fuel tank into an approved container.
- 3. Remove fuel filter and inspect it. Replace if dirty or damaged.
- Pinch fuel filter with fingers on one hand and fuel line with other hand. Pull and twist slightly to separate. Do not remove wire coil clamp.



5. If required, install a new fuel filter. Pinch fuel filter with fingers on one hand and fuel line with other hand. Push and twist slightly to assemble.

Note: When inside of fuel tank is dirty, rinse with gasoline to clean.

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 a replacement part that is not certified.



Spark Plug

Level 2

Parts required: Tune-up kit.



Use only NGK CMR7H spark plug to avoid damage to the unit. Do not sandblast to clean. Remaining sand will damage engine.

- Remove spark plug from cylinder and check for fouling, worn, or rounded center electrode.
- 2. Clean or replace spark plug
- 3. Adjust spark plug gap to 0.65 mm (0.026 in.).
- Install and tighten spark plug to 102-153 kgf•cm (89-133 lbf•in).

Cooling System

Level 2



NOTICE

To maintain proper engine operating temperatures, cooling air must pass freely through engine cover (A). 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 cylinder.



• Dust and grass build up on outside of cylinder. This build up insulates the engine and prevents heat from leaving.

Removal of cooling passage blockages or cleaning of cooling fins is considered normal maintenance. Failure attributed to lack of maintenance is not warranted.

MAINTENANCE

- 1. Remove muffler cover (A).
- 2. Remove engine cover (B).
- 3. Remove air filter cover (C).



NOTICE

Do not use a metal scraper to remove dirt from cylinder fins.

- Use a brush with plastic or nylon bristles to remove dirt from cylinder 4. fins.
- 5. Remove grass and leaves from grid (C) between recoil starter and fuel tank.
- 6. Assemble air filter cover (C),
- 7. Assemble muffler cover (A).
- 8. Assemble engine cover (B).

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Exhaust System

Spark Arrester Screen

Level 2

Parts required: Spark arrester screen, gasket.

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



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NOTICE

When cleaning carbon deposits, be careful not to damage catalytic element inside muffler.

- 7. Replace spark arrester screen (D) if it is cracked, plugged, or has holes burned through.
- 8. Install spark arrester screen (D), gasket (C), and spark arrester screen cover (B) to muffler body.

Exhaust Port Cleaning

Level 2

Parts needed: Heat shield (as required).

NOTICE

Use a plastic or wooden tool to scrape carbon from exhaust port. Do not scratch cylinder or piston when cleaning exhaust port. Do not allow carbon particles to enter cylinder.

- 1. Place piston at TDC.
- 2. Remove muffler cover (A).
- 3. Remove muffler (B).
- 4. Remove heat shield (C).
- Use a wood or plastic scraping tool to clean deposits from cylinder exhaust port (D).
- 6. Inspect heat shield (C), replace if damaged.
- 7. Assemble heat shield and muffler.
- C B A
- Tighten muffler mounting bolts (or nuts) to 90-110 kgf•cm (80-95 lbf•in).
- 9. Assemble muffler cover.



Carburetor Adjustment

Level 2

WARNING

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

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 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, and durability performance up to 335 m (1,100 ft.) above sea level (ASL). To maintain proper engine operation above 335 m (1,100 ft.) ASL the carburetor may need to be adjusted by an Authorized Service Dealer.

NOTICE

If the engine is adjusted for operation above 335 m (1,100 ft.) ASL, carburetor must be re-adjusted when operating engine below 335 m (1,100 ft.) ASL, otherwise severe engine damage may result.

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 Service Dealer.

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MAINTENANCE

- 1. Check idle speed and reset if necessary. Set idle speed to 3,000 RPM.
 - Turn idle screw (A) clockwise to increase idle speed; counterclockwise to decrease idle speed.



Lubrication

Level 1.

Blade Lubrication

Parts required: 20W Engine Oil (blade lubrication), 50-50 mixture of kerosene and 20W oil (blade cleaning).

WARNING

Sharp, moving blades. Contact with blades could cut hands and fingers. Wear protective gloves.

- 1. Brush loose debris from blade and coat both sides of blade with the 50-50 cleaning mixture.
- 2. Allow cleaning mixture to soften the remaining residue then wipe it from blade.
- Apply clean oil to entire length of blade and lubricate blade bolts.
- 4. Wipe excess oil from blade before putting the unit back in service.





MAINTENANCE

Gear Case Lubrication

Parts required: A grease gun with lithium-based grease.

1. Clean dirt from grease fitting (A).



NOTICE

Do not force grease. Too much pressure will force grease past seals and cause damage.

- Apply one to two pumps of grease to grease fitting (A) every 15 25 2. hours of operation.
- 3. Wipe excess grease from around grease fitting.

Drive Shaft Lubrication

Parts required: Lithium-based grease.

WARNING

Sharp, moving blades. Contact with blades could cut hands and fingers. Wear protective gloves.

1. Loosen gear housing locating screw (A) and remove clamping screw (B). Remove the gear housing assembly from the drive shaft housing.



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MAINTENANCE

- Pull drive shaft (C) from housing, then apply 15 ml (0.5 oz.) of grease.
- 3. Slide the drive shaft back in the drive housing. Be careful not to get dirt on the flex shaft.



4. Install the gear housing assembly.

Blade Sharpening

Level 2



Sharp, moving blades. Contact with blades could cut hands and fingers. Wear protective gloves.

NOTICE

Blades should only be removed and reinstalled by an Authorized Service Dealer, otherwise premature wear or internal damage may occur.

- 1. Remove blade guard.
- Slide blades to allow file clearance using slots (A) on bottom of blade. Do not pry against cutting edges.





Do not allow blade to overheat if using a power grinder.

- 3. File each edge carefully and follow original shape of blade
- 4. Lubricate blades.
- 5. Install blade guard.



Blade Adjustment

Level 2

NOTICE

The locking ability of hedge trimmer blade lock nuts will diminish each time they are removed. Replace if turning resistance is not felt when installing lock nuts.

- 1. Hold blade bolts (A) and remove blade lock nuts (B).
- 2. Unscrew blade bolts (A) and remove from blade support bar.
- Thread new, or existing cleaned blade bolts, into blade support bar and tighten to 5-7 N•m (44-62 lbf•in)



4. Hold blade bolts (A) to prevent turning, assemble lock nuts (B) to blade bolts (A). Tighten to 7-9 N•m (62-80 lbf•in).

Blades must slide smoothly without binding.



TROUBLESHOOTING

DANGER

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

ENGINE PROBLEM TROUBLESHOOTING CHART							
Problem	Check	Status	Cause	Remedy			
		No fuel at carburetor.	Fuel filter or	Clean or replace.			
	Fuel at carburetor.		fuel line obstructed.	See your Authorized Service Dealer			
		No fuel at cylinder.	Carburetor	See your Authorized Service Dealer.			
		Muffler wet with fuel.		Open choke.			
	Fuel at cylinder.		Fuel mixture too rich.	Clean or replace air filter.			
Engine starts				Adjust carburetor.			
hard. or Engine does not start.				See your Authorized Service Dealer.			
	Spark at end of plug wire.		Stop switch OFF.	Turn switch to ON.			
			Electrical problem.	See your Authorized			
			Interlock switch.	Service Dealer.			
	Spark at plug.	No spark.	Incorrect gap.				
			Covered with carbon.	Adjust to 0.65 mm (0.026 in.).			
			Fouled with fuel.	Clean or replace			
			Spark plug defective.	spark plug.			



TROUBLESHOOTING

ENGINE PROBLEM TROUBLESHOOTING CHART							
Problem	Check	Status	Cause	Remedy			
Engine runs, but dies. or Engine does not accelerat e 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.			
	Carbureto r		Vibration	Adjust			
	Cooling system	Cooling system dirty or plugged.	Extended operation in dirty or dusty locations.	Clean			
	Spark arrester screen	Spark arrester screen plugged.	Normal wear.	Replace			
Engine does not crank.	N/A		Internal engine problem.	See your Authorized Service Dealer.			



STORAGE

Transportation

- Shut engine off before transporting.
- Secure unit to prevent fuel spillage and damage.

Short-Term Storage

- Shut engine off.
- Store unit in a dry, dust-free place, out of the reach of children

Long-Term Storage (Over 30 Days)

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Explosion hazard. Fuel fumes can accumulate and explode if exposed to an open flame or spark. Store in a well ventilated area.

DANGER

Fire hazard. Fuel is flammable. Burning fuel will cause bodily injury or death. Wear protective equipment. Use care when mixing, storing or handling.

WARNING

Burn hazard. 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.

Do not store your unit for a prolonged period of time (30 days or longer) without performing protective storage maintenance.

- 1. Move stop switch to STOP position.
- 2 Clean exterior of unit.
- 3. Perform required maintenance.
- 4. Tighten all fasteners.
- 5. Drain fuel tank completely.

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SPECIFICATIONS

- 6. Press purge bulb six to seven times to remove remaining fuel from carburetor then drain tank again.
- 7. Close choke, start and run the engine until it stops due to lack of fuel.
- 8. Allow engine to cool.
- 9. Remove spark plug lead from spark plug.
- 10. Remove spark plug from cylinder.
- 11. Pour 7 cc (0.25 fl. oz.) of two-stroke engine oil into cylinder through spark plug hole.
- 12. Pull recoil starter handle two to three times to distribute oil inside engine.
- 13. Observe 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.
- 14. Install spark plug.
- 15. Connect spark plug lead to spark plug.
- 16. Store unit in a dry, dust-free place, out of the reach of children.

MODEL	HCA-2620	HCA-2620S			
Length	2,427 mm (96 in.)	1,771 mm (69.7 in.)			
Width	273 mm (10.7 in.)				
Height	260 mm (10.2 in.)				
Weight (without fuel)	6.7 kg (14.7 lb.)	6.3 kg (13.9 lb.)			
Engine type	Air-cooled, two-stroke, single cylinder gasoline engine				
Bore	34.0 mm (1.34 in.)				
Stroke	28.0 mm (1.10 in.)				
Displacement	25.4 cc (1.55 in.3)				
Exhaust	Spark arrester muffler or spark arrester muffle with catalyst				
Carburetor	Diaphragm with purge bulb				
Ignition system	Flywheel magneto, capacitor discharge ignition type				

SPECIFICATIONS

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SPECIFICATIONS

MODEL	HCA-2620	HCA-2620S			
Spark plug	NGK CMR7H Gap 0.65 mm (0.026 in.)				
Fuel	Mixed (gasoline and two-stroke oil)				
Fuel/oil ratio	50:1				
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.				
Oil	ISO-L-EGD (ISO/CD 13738) and J.A.S.O. M345- <u>FD</u> , two-stroke, air-cooled engine oil				
Fuel tank capacity	0.56 L (18	9 US fl. oz.)			
Starter system	Automatic recoil starter				
Clutch	Centrifugal type				
Gear case ratio	4.6:1				
Cutter	Double reciprocating blade, double edge				
Length	536 mm (21.1 in.)				
Pitch	35 mm (1.38 in.)				
Height	21 mm (.083 in)				
Maximum diameter cut:					
Soft material	25.4 mm (1.0 in.)				
Woody material	13 mm (0.5 in.)				
Cutting angle adjustment	-90° to +45° (135° total)				
Idle speed	3,000 RPM				
Clutch engagement speed	4,300 RPM				
Wide Open Throttle Speed	11,500 RPM				



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