# **shindaiwa**®

# Operator's Manual AH262 AHS262 Articulated 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

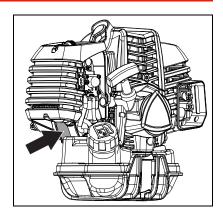
https://www.shindaiwa-usa.com/manuals



### SERVICING INFORMATION

### **Parts and Serial Number**

Genuine Shindaiwa Parts and Assemblies for your Shindaiwa 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.



	erial No
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### 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: 1-877-986-7783. Dealer information is also available on https://www.shindaiwa-usa.com. When presenting your unit for Warranty service/repairs, proof of purchase is required.

### **Consumer Product Support**

If you require assistance or have questions concerning the application, operation or maintenance of this product you may call the Shindaiwa Consumer Product Support Department at 1-877-986-7783 from 8:00 am to 5:00 pm (Central Standard Time) Monday through Friday. Before calling, please know the model and serial number of your unit.

### **Product Registration**

To ensure trouble free warranty coverage it is important that you register your Shindaiwa equipment on-line at www.shindaiwa-usa.com or by filling out the product registration sheet included in this manual. Registering your product confirms your warranty coverage and provides a direct link between you and ECHO if we find it necessary to contact you.

### **Additional Literature**

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.

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

# **A** CAUTION

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	Н	Carburetor Adjustment - High Speed Mixture
	Wear Eye, Ear and Head Protection	T	Carburetor Adjustment - Idle Speed
	Wear Hand and Foot Protection	L	Carburetor Adjustment - Low Speed Mixture
<u>^</u>	Safety/Alert	STOP	Emergency Stop
abilitublus.	Hot Surface	+	Fuel and Oil Mixture
	Finger Severing	A DANGER  THE NAME OF THE PROPERTY OF THE PROP	Do not operate closer than 10 m (33 ft.) from electrical hazard.
<u>A</u>	Avoid all power lines.		Plan retreat path from falling objects.
	DO NOT Allow Flames or Sparks Near Fuel	Ignition ON OFF O	Ignition ON / OFF
3	DO NOT Smoke Near Fuel	•	Primer Bulb

Symbol	Description	Symbol	Description
	Choke Control "RUN" Position (Choke Open)	1	Choke Control "COLD START" Position (Choke Closed)
	Finger Severing	*50ft*X	Keep bystanders at least 15 m (50 ft.) away.
15 M - 50 FT	Do not operate closer than 15 m (50 ft.) from electrical hazard. Keep bystanders at least 15 m (50 ft.) away.		Do not operate closer than 10 m (33 ft.) from electrical hazard.

Note: Not all symbols will appear on your unit.



### Personal Condition and Safety Equipment

# WARNING

Cancer and Reproductive Harm www.P65Warnings.ca.gov

# WARNING

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** 

# **A** CAUTION

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.

# DANGER

All overhead 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.

# **▲** 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 and Safety Manual for instructions on Safe Operation.

### Clear the Work Area

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

### Keep a Firm Grip

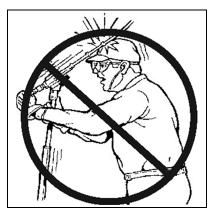
· Always hold throttle handle and support handle with thumbs and fingers tightly encircling the handles.

### 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.

### **Cutting Angle Adjustments**

· Only adjust cutting blade angle with unit flat on the ground, with the engine stop switch in the "STOP" position. Never adjust cutting angle with unit standing upright.



### Avoid Contact With Gear Box Assembly During Use

· Gear box assembly becomes hot during use. Avoid contact with gear box assembly when using unit or making cutting angle adjustments.





### **Avoid Hot Surfaces**

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

# WARNING

Never perform blade maintenance procedures while engine is running.

### Equipment

# WARNING

Use only Shindaiwa attachments. Serious injury may result from the use of a non-approved attachment combination. ECHO Incorporated will not be responsible for the failure of cutting devices, attachments or accessories which have not been tested and approved by ECHO Incorporated. Read and comply with all safety instructions listed in this manual and safety manual.

- · Check unit for loose or missing nuts, bolts, and screws. Tighten and/or replace as needed.
- · Check that the cutting attachment is firmly attached and in safe operating condition. Dull, loose or damaged blades should not be used.

# WARNING

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

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

# **WARNING**

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

### **EMISSION CONTROL**

### **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 FAMILY: (2) EHXS.0214EQ DISPLACEMENT: 21.2cc EMISSION COMPLIANCE PERIOD: 50Hours THIS ENGINE MEETS 2013 U.S.EPA EXH/EVP & CALIFORNIA EXH/EVP EMISSION REGULATIONS FOR S.O.R.E. REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.

YAMABIKO CORP. MMM/YYYY



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: CEHXS.0214KL DISPLACEMENT: 21.2cc EMISSION COMPLIANCE PERIOD: 300Hours THIS ENGINE. MEETS 2012 U.S. EPA EXHVEVP & CALIFORNIA EXH/EVP EMISSION REGULATIONS FOR S.O.R.E. REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.

YAMABIKO CORP. MMM/YYYY E

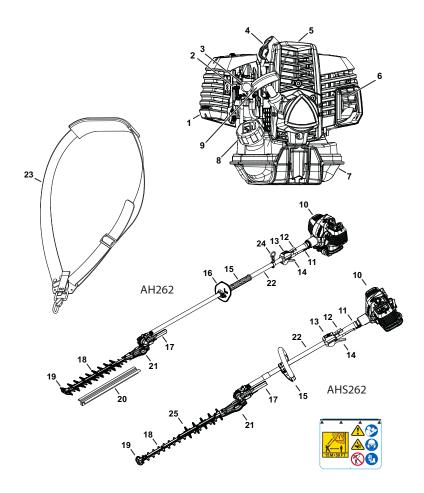


### **Product Emission Durability (Emission Compliance Period)**

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 Shindaiwa dealer. Images shown below are for example only. Those on your unit might appear slightly different



- Air filter
- 2. Choke lever
- 3. Purge bulb
- 4. Spark plug
- 5. Top guard
- 6. Spark arrester muffler or spark arrester muffler with catalyst
- 7. Fuel tank
- 8. Fuel tank cap
- 9. Recoil starter / handle
- Power head
- 11. Throttle handle for right hand
- 12. Throttle trigger lockout
- 13. Stop switch
- 14. Throttle trigger
- 15. Support handle for left hand
- 16. Hand guard
- 17. Blade adjustment handle
- 18. Blades
- 19. Tip guard
- 20. Blade cover
- 21. Gear case
- 22. Drive shaft assembly
- 23. Shoulder harness (AH262 only)
- 24. Hanger set (AH262 only)
- 25. Blade guard (AHS262 only)

### CONTENTS

The Shindaiwa 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 Shindaiwa Dealer of damaged or missing parts. Use the contents list to check for missing parts.

- Power head and drive shaft assembly
- 1 Gear case assembly
- Operator's manual
- 1 Warranty statement
- 1 Shoulder harness (AH262 only)
- 1 Blade cover

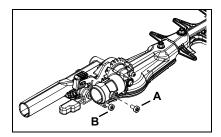
### **ASSEMBLY**

### Gear Housing Assembly to Drive Shaft

# **WARNING**

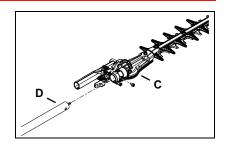
Hedge trimmer blades are very sharp. Wear gloves to protect hands.

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



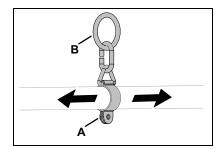
### **OPERATION**

- Slide cutter assembly (C) onto drive shaft assembly (D). Be certain the flexible drive shaft engages the hole in the driver gear.
- Align locating hole in gear housing with locator hole in drive shaft.
- 5. Install the locating bolt and tighten the clamping bolt.



### **Shoulder Harness (if included)**

- Loosen harness clamp screw (A).
- 2. Put harness on and attach it to harness clamp ring (B).
- Adjust harness for comfortable operation.
- 4. Tighten harness clamp screw (A).



### **OPERATION**

# **WARNING**

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

# **▲** WARNING

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

# WARNING

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

### Fuel

# WARNING

Diesel fuels and alternative fuels, such as E15 (15% ethanol), E85 (85% ethanol) or any fuels not meeting Shindaiwa requirements are NOT approved for use in Shindaiwa 2-stroke or Hybrid 4-stroke gasoline engines. Use of diesel or alternative fuels may cause performance problems, loss of power, overheating, fuel vapor lock, and unintended machine operation, including, but not limited to, improper clutch engagement. Diesel or alternative fuels may also cause premature deterioration of fuel lines, gaskets, carburetors and other engine components.

### **Fuel Requirements**

Gasoline - Use 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 2-stroke and 2/4-stroke hybrid engines.

Two Stroke Oil - A two-stroke engine oil, such as Shindaiwa branded twostroke oils, meeting ISO-L-EGD (ISO/CD 13738) and J.A.S.O. FD Standards must be used. Shindaiwa 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-FD 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

Shindaiwa branded two-stroke oils may be mixed at 50:1 ratio for application in all Shindaiwa engines sold in the past, regardless of ratio specified in those manuals.

### **Handling Fuel**

# **A** DANGER

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

- Use an approved fuel container.
- Do not smoke near fuel.
- · Do not allow flames or sparks near fuel.
- Fuel tanks/cans may be under pressure. Always loosen fuel caps slowly allowing pressure to equalize.
- Never refuel a unit when the engine is hot 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 10 feet (3 m) from the fueling point before starting the engine.

# **A** DANGER

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

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

FUEL TO OIL MIX - 50:1 RATIO			
US		Metric	
Gas	Oil	Gas	Oil
gal.	fl. oz.	L	СС
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 (30) days, ninety (90) days when a fuel stabilizer is added.

# NOTICE

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

# NOTICE

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

### **Adjusting Cutting Angle**

# **WARNING**

Never adjust cutting assembly with engine running.

# WARNING

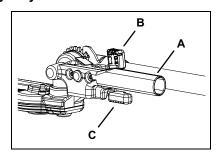
Hedge trimmer blades are sharp. Always wear gloves when adjusting cutting assembly.

# **WARNING**

DO NOT stand hedge trimmer on end when adjusting cutting angle, otherwise serious injury may result.

- Move the stop switch to the STOP position. Place the unit on a flat surface.
- Hold blade adjustment handle

   (A) and compress blade lock
   levers (B) and (C) together.
   Rotate the blade to the desired position. Release the levers to lock the blade.



# WARNING

Gear case assembly becomes HOT during use. Always grip assembly at blade adjustment handle when making cutting angle adjustments, otherwise serious injury may result.

# WARNING

Always install the blade cover and place the cutter assembly in the locked position for storage or transportation.

### Starting Cold Engine

# WARNING

Hedge trimmer blades are very sharp. Touching them may lead to severe personal injury. Avoid touching blades whenever possible, and always wear gloves to protect hands.

# WARNING

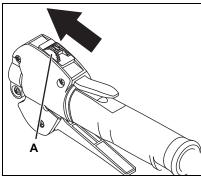
The attachment will operate immediately when the engine starts, and could result in possible serious injury. Keep movable parts of the attachment away from objects that could become entangled or thrown, and surfaces that could cause loss of control.

# WARNING

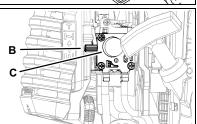
The blades must not move at idle, otherwise serious personal injury may result. Periodic carburetor adjustment may be necessary to assure blades do not move at idle. If blades move, readjust carburetor according to "Carburetor Adjustment" instructions in this manual or see your Dealer.

Note: The blade cover is used for transportation and storage. Remove blade cover before using the unit.

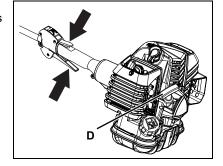
1. Move stop switch (A) away from the STOP position.



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



- Lay the unit on a flat area and 4. keep movable attachment parts clear of all obstacles. Firmly grasp throttle handle and throttle trigger lockout with left hand and fully depress throttle trigger to wide open position. Rapidly pull recoil starter handle/rope (D) until engine fires or maximum five pulls.
- 5. After engine fires or five pulls, move choke (B) to the RUN position. Firmly grasp throttle



handle and throttle trigger lockout with left hand and fully depress throttle trigger to wide open position. Pull starter handle/rope until engine starts and runs. Release throttle trigger and allow unit to warm up at idle for several minutes.

Note: If engine does not start with choke in Run position after 5 pulls, repeat steps 2 - 5.

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

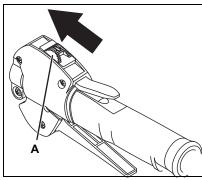
### Starting Warm Engine

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

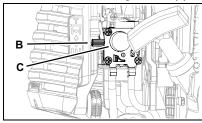
# WARNING

The blades must not move at idle, otherwise serious personal injury may result. Periodic carburetor adjustment may be necessary to assure blades do not move at idle. If blades move, readjust carburetor according to "Carburetor Adjustment" instructions in this manual or see your Dealer.

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

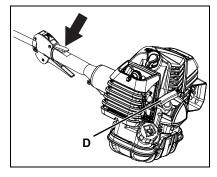


Pump purge bulb (B) until fuel is visible and flows freely in the clear fuel tank return line. Pump bulb an additional 5 times.



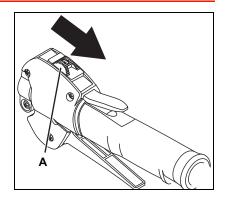
3. Lay the unit on a flat area and keep movable attachment parts clear of all obstacles. Firmly grip throttle handle and throttle trigger lockout with left hand. Rapidly pull recoil starter handle/rope (D) until engine fires.

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



### Stopping Engine

- 1. Release throttle trigger and allow engine to return to idle before shutting off engine.
- Move stop switch (A) to STOP 2. position.



# **WARNING**

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

### Hedge Trimming

# CAUTION

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

# WARNING

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.

Hold trimmer firmly and squeeze throttle trigger to accelerate engine.

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.

# **WARNING**

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

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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 https://www.echo-usa.com/products/maintenance-kit

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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	Daily or Before Use			
Air filter	Inspect/Clean1	1		
Choke shutter	Inspect/Clean	1		
Fuel system	Inspect <sup>2</sup>	1		
Cooling system	Inspect/Clean	2		
Recoil starter rope	Inspect/Clean1	1		
Screws/nuts/bolts	Inspect/Tighten/Replace1	1		
Blades	Inspect/Clean <sup>3</sup>	1		
Every Refuel				
Fuel system	Inspect <sup>2</sup>	1		
3 Months				
Air filter	Replace1	1		
Fuel filter	Inspect1	1		
Fuel cap gasket	Inspect1	1		
Spark plug	Inspect/Clean/Replace1	1		
Muffler spark arrester	Inspect/Clean/Replace1	2		
Cylinder exhaust port	Inspect/Clean/Remove carbon deposits	2		
Gear housing	Grease <sup>3</sup>	2		
Yearly		<u> </u>		
Fuel filter	Inspect/Replace1	1		

COMPONENT OR SYSTEM	MAINTENANCE PROCEDURE	SKILL LEVEL
Fuel cap gasket	Replace1	1

- 1 Replace if worn or damaged.
- 2 Low evaporative fuel tanks do not require regular maintenance to maintain emission integrity.
- 3 Apply lithium-based grease every 25 hours of use.
- 4 Inspect blade. Clean and sharpen as needed. Lubricate blades periodically during use.

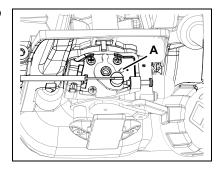
### Air Filter

### Level 1

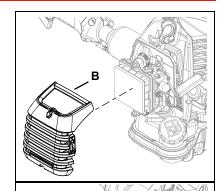
Parts required: Tune-up kit.

- 1. Move stop switch to STOP position.
- 2. Allow unit to cool (if required).
- 3. Remove spark plug lead from spark plug.
- 4. Close choke (COLD START position). This prevents dirt from entering the carburetor throat when the air filter is removed.
- 5. Brush accumulated dirt from air cleaner area.

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



6. Remove air filter cover (B). Clean inside and out.



- 7. Remove foam filter (C).
- 8. Remove foam filter cage (D).
- Clean foam filter (C) in water 9. and detergent solution and rinse with clean water.
- 10. Wrap foam filter (C) in a clean, dry cloth and squeeze (do not wring) dry. Dry completely before reuse. Do not oil.
- 11. Remove air filter (E).
- Brush debris from air filter (E). Replace if damaged, fuel soaked, very dirty, or the rubber sealing edges are deformed.
- 13. Assemble air filter (E).
- Assemble foam filter cage (D).
- 15. Assemble foam filter (C).
- 16. Assemble air filter cover (B).

### Fuel Filter

### Level 1

Parts required: Tune-up kit.

# **WARNING**

Fuel is flammable. Mixing, transporting, or storing fuel, could result in fire. Do not allow flame or spark near fuel. Use care when handling.

- Move stop switch to STOP position.
- 2. Allow unit to cool (if required).

- 3. Remove spark plug lead from spark plug.
- 4. Use a clean cloth to remove loose dirt from around fuel tank cap.
- 5. Remove fuel tank cap.
- 6. Empty fuel into an approved container.

# NOTICE

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

- 7. Remove fuel filter (A) from fuel tank and inspect it.
- 8. Replace if dirty or damaged.
- Leave wire coil clamp in place. Hold fuel filter with fingers on one hand and pinch fuel line with other hand. Pull and twist slightly to separate.
- A
- 10. Install new fuel filter with reverse action.
- 11. Rinse inside of fuel tank with gasoline if dirty.

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.

# **NOTICE**

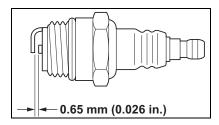
Use only NGK CMR7H spark plug. Do not sand blast to clean or severe engine damage can occur.

- 1. Move stop switch to STOP position.
- 2. Allow unit to cool (if required).
- Remove spark plug lead from spark plug.
- 4. Remove spark plug from cylinder.
- 5. Place piston at top dead center (TDC).

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### **MAINTENANCE**

- Check spark plug for fouling, worn, or rounded center electrode.
- 7. Clean park plug or replace with a new one.
- 8. Set spark plug gap to 0.65 mm (0.026 in.).
- 9. 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 covers and reach cylinder fin area. This flow of air carries combustion heat away from the engine.

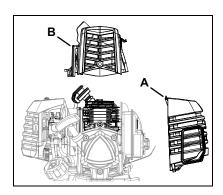
Overheating and engine seizure can occur when:

- Engine covers are blocked, preventing cooling air from reaching the cylinder fin area.
- Dust and grass build up on outside of the cylinder and cylinder fin area.
   This build up insulates the engine and prevents cooling.

Removal of cooling passage blockages or cleaning of outside of cylinder and cylinder fin area is considered normal maintenance. Failure due to lack of maintenance is not covered by warranty.

### **Cooling System Cleaning**

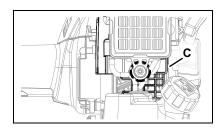
- Move stop switch to STOP position.
- Allow unit to cool (if required).
- Remove spark plug lead from spark plug.
- 4. Remove muffler cover (A).
- 5. Remove engine cover (B).



# NOTICE

Use brush with nylon bristles to remove dirt from cylinder fins. Do not use a metal brush or metal scraper.

- 6. Remove air filter cover.
- Brush debris from grid (C) between recoil starter and fuel tank.
- 8. Install spark plug lead to spark plug.
- 9. Assemble engine cover (B).
- 10. Assemble muffler cover (A).



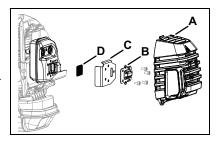
### **Exhaust System**

### Level 2

### **Spark Arrester Screen Cleaning**

Parts required: Spark arrester screen, gasket.

- 1. Move stop switch to STOP position.
- 2. Allow unit to cool (if required).
- Remove spark plug lead from spark plug.
- 4. Remove spark plug from cylinder.
- 5. Place piston at top dead center.
- Remove muffler cover (A).
- Remove spark arrester screen cover (B), gasket (C), and spark arrester screen (D) from muffler body.



# NOTICE

When cleaning carbon deposits, do not damage catalytic element inside muffler.

- 8. Clean carbon deposits from muffler components.
- 9. Replace spark arrester screen if it is cracked, plugged, or has holes burned through.

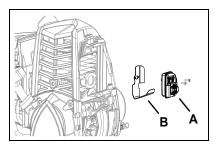
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- Assemble spark arrester screen (D), gasket (C), and spark arrester screen cover (B), to muffler body.
- 11. Install spark plug to cylinder.
- 12. Install spark plug lead to spark plug.
- 13. Assemble muffler cover.

### **Exhaust Port Cleaning**

Parts required: Heat shield (as needed).

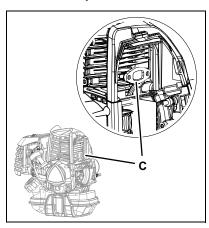
- 1. Move stop switch to STOP position.
- 2. Allow unit to cool (if required).
- Remove spark plug lead from spark plug.
- 4. Place piston at top dead center.
- Remove muffler cover.
- Remove muffler fasteners and muffler (A).
- 7. Remove heat shield (B).



# NOTICE

Use a wood or plastic scraping tool to clean deposits from cylinder exhaust port. Do not scratch cylinder or piston when cleaning exhaust port or allow carbon particles to enter cylinder.

- Clean exhaust port (C).
- 9. Inspect heat shield (B) and replace if damaged.
- 10. Assemble heat shield (B).
- Assemble muffler (A).
- 12. Tighten muffler fasteners to 90-110 kgf•cm (80-95 lbf•in).
- 13. Install Spark plug to cylinder.
- 14. Install spark plug lead to spark plug.
- 15. Assemble muffler cover.



### **Carburetor Adjustment**

Level 2

# WARNING

Moving parts hazard. Contact with moving parts could cause bodily injury. Wear protective equipment. The cutting attachment may move during carburetor adjustment. Adjust the carburetor to assure blades do not move at idle or see your Authorized Service Dealer.

### **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 330 m (1,100 ft.) above sea level (ASL). To maintain proper engine operation above 330 m (1,100 ft.) ASL the carburetor may need to be adjusted by an Authorized Service Dealer.

- For units equipped with a clutch, be sure the cutting attachment stops moving when the engine idles.
- Wear your protective equipment and observe all safety instructions.
- When the unit is turned off, make sure the cutting attachment has stopped before the unit is set down.

If the engine is adjusted for operation above 330 m (1,100 ft.) ASL, carburetor must be re-adjusted when operating engine below 330 m (1,100 ft.) ASL, otherwise severe engine damage may result.

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

1. Check idle speed and reset to 3,000 RPM (if required).Turn idle screw (A) clockwise to increase or counterclockwise to decrease idle speed.

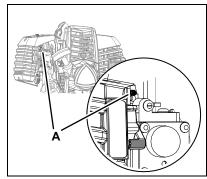
### Lubrication

### Blades

### Level 1.

Parts Required: 20W engine oil for

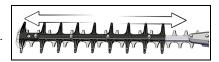
blade lubrication, 50-50 mixture of kerosene and 20W oil for blade cleaning.



# WARNING

Hedge trimmer blades are very sharp. Touching them may lead to severe personal injury. Avoid touching blades whenever possible, and always wear gloves to protect hands.

Brush loose debris from blade 1 and coat both sides of blade with the 50-50 cleaning mixture.



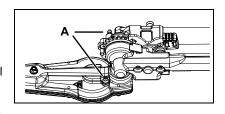
- 2. Allow cleaning mixture to soften the remaining gummy residue then wipe it from the blade.
- 3. Apply clean oil to the entire length of the blade. Be certain the blade bolts are lubricated.
- 4. Wipe excess oil from the blade before putting the unit back in service.

### Gear Case

Level 1.

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

- Clean dirt from the grease fitting (A).
- 2. Carefully pump grease into fitting (A). DO NOT force grease. Too much pressure will force grease past seals and cause damage. Apply 1 - 2 pumps of grease every 15 - 25 hours of operation.



Wipe excess grease from around grease fitting. 3.

#### Drive Shaft Assembly

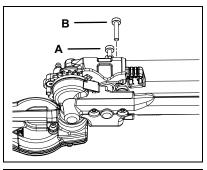
Level 1.AHS

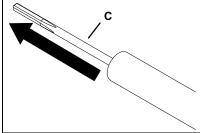
Parts Required: Lithium-based grease.

# WARNING

Hedge trimmer blades are very sharp. Touching them may lead to severe personal injury. Avoid touching blades whenever possible, and always wear gloves to protect hands.

- Remove gear housing locating screw (A) and loosen clamping screw (B). Remove the gear housing assembly from the drive shaft housing.
- 2. Pull the drive shaft (C) from the housing, wipe clean, then apply 15 ml (0.5 oz.) of grease.
- Slide the drive shaft back in the 3. drive housing being careful not to get dirt on the flex shaft.
- Install the gear housing 4. assembly.





### **Blade Sharpening**

Level 2

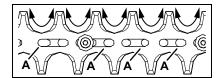
# WARNING

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.



### NOTICE

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.

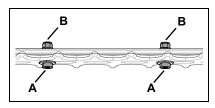
#### **Blade Adjustment**

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.

- 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.

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

E	NGINE PRO	BLEM TROU	BLESHOOTING (	CHART
Problem	Check	Status	Cause	Remedy
	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.
Engine runs, but	Fuel vent	Fuel vent plugged.	Contaminated fuel.	Clean or replace.
dies. or	Spark plug	Plug dirty or worn.	Normal wear.	Clean and adjust or replace.
Engine does not acceler-	Carbure- tor	Improper adjust- ment.	Vibration	Adjust
ate properly.	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)

# **A** DANGER

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

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.

# **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.

# **A** DANGER

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

- 5. Drain fuel tank completely.
- 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.
- Remove spark plug lead from spark plug.
- Remove spark plug from cylinder.
- 11. Pour 7 mL (0.25 fl. oz.) of two-stroke engine oil into cylinder through spark plug hole.
- 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.
- Connect spark plug lead to spark plug.
- 16. Store unit in a dry, dust-free place, out of the reach of children.

# WARNING

Hedge trimmer blades are sharp. Avoid touching blades whenever possible, and always wear gloves to protect hands. Touching blades could lead to severe personal injury.

### NOTICE

Always store and transport hedge trimmers in a stable, horizontal position. Support gear case and cutting blades to prevent excessive flexing, which may cause damage to these components. Always install blade cover when transporting or storing unit.

- Hedge trimmers only: Apply clean oil to the entire length of the blade.
   Be certain the blade bolts are lubricated.
- 18. Hedge trimmers only: Install blade guard on blades.

### NOTICE

Some tree sap and resins are corrosive and can damage guide bars, saw chains and sprockets.

19. **Power pruners only:** Wash the guide bar and sprocket areas after each use, then coat metal parts with oil.

# **SPECIFICATIONS**

MODEL	AH262	AHS262	
Length	2,427 mm (95.5 in.)	1,771 mm (69.7 in.)	
Width	273 mm	(10.7 in.)	
Height	260 mm (10.2 in.)		
Weight (dry)	6.7 kg (14.8 lb.)	6.5 kg (14.3 lb.)	
Engine Type		oke, single cylinder e engine	
Bore	34.0 mm	ı (1.34 in.)	
Stroke	28.0 mm	ı (1.10 in.)	
Displacement	25.4 cc	(1.55 in. <sup>3</sup> )	
Exhaust	Spark arrester muf muffler w	fler or spark arrester ith catalyst	
Carburetor	Diaphragm w	ith purge pump	
Ignition System		capacitor discharge on type	
Spark Plug		CMR7H ı (0.024 - 0.026 in.)	
Fuel	Mixed (gasoline	and two-stroke oil)	
Gasoline/Oil Ratio	5	0:1	
Gasoline	containing methyl ale ethyl alcohol or 15	aded. Do not use fuel cohol, more than 10% % MTBE. Do not use uch as E-15 or E-85.	
Oil	ISO-L-EGD (ISO/CD M345- FD, two-stroke	0 13738) and J.A.S.O. e, air-cooled engine oil.	
Fuel Tank Capacity	0.56 L (18.	9 US fl. oz.)	
Starter System	Automatic	recoil starter	
Clutch	Centrifu	ıgal type	
Gear Case Ratio	4.6	6:1	
Cutter	Double reciprocatin	g blade, double edge	
Length	536 mm	(21.1 in.)	
Pitch	35 mm	(1.38 in.)	
Maximum Diameter Cut:			
Soft Material	25.4 mr	n (1.0 in.)	

MODEL	AH262	AHS262
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	11,50	0 RPM

#### PRODUCT REGISTRATION

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Where Purchased : Nombre del Almacén donde fue Comprado : Lieu d'achat	sén donde fue Con	nprado : Lieu d'achat	influenció más en su com Precio Experiencia Anterior
Model Number : Numero del Modelo :	No. de modéle Se	Model Number : Numero del Modelo : No. de modéle   Serial Number : Numero de Serie : No. de série	cteurs
Registering your purchase enables us to contact ownership in the event of loss.: El registrar su contact of loss.	ct you in the unlikely ev	vent of a service update or product recall and verifies your star en contacto con usted en caso de cualquier evento	☐ Marque
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