

echosari CS-3510AC

ECHO CS-3510ES Thermal Chainsaw

INSTRUCTION MANUAL

Model: CS-3510AC

1. INTRODUCTION

Thank you for choosing the ECHO CS-3510ES Thermal Chainsaw. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your chainsaw. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent injury or damage.

Key Features:

- Optimal choice for discerning consumers.
- New design with tool-free removable cover for easy filter access.
- Very high torque for powerful cutting performance.
- Automatic return starter lever for convenient starting.
- Chain sprocket driven lubrication pump ensures consistent chain oiling.
- Engine Displacement: 34.4 cc
- Starting System: ES-Start
- Guide Bar Length: 35 cm
- Weight: 3.7 kg

2. SAFETY INSTRUCTIONS

WARNING: Chainsaws can be dangerous. Always follow safety precautions to prevent serious injury or death.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE including a safety helmet, eye protection, hearing protection, heavy-duty gloves, chainsaw protective trousers, and safety boots.
- **Work Area:** Ensure the work area is clear of bystanders, pets, and obstacles. Maintain a firm footing and balance.
- **Fuel Handling:** Mix and handle fuel in a well-ventilated area, away from ignition sources. Do not smoke while refueling.
- **Starting:** Start the chainsaw on a stable, flat surface. Ensure the chain brake is engaged before starting.

- **Grip:** Always hold the chainsaw firmly with both hands, with thumbs and fingers encircling the handles.
- **Kickback:** Be aware of kickback. Avoid cutting with the tip of the guide bar.
- **Maintenance:** Perform all maintenance with the engine off and the spark plug cap disconnected.
- **Transport:** Transport the chainsaw with the engine off, chain brake engaged, and the guide bar covered.

3. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your ECHO CS-3510ES chainsaw.



Figure 3.1: Overall view of the ECHO CS-3510ES Thermal Chainsaw, showcasing its compact and ergonomic design.



Figure 3.2: Left side view of the chainsaw, highlighting the chain and guide bar assembly.



Figure 3.3: Top view of the chainsaw, showing the engine cover and handle.

4. SETUP

4.1 Fuel and Oil Mixture

The ECHO CS-3510ES is a 2-stroke engine and requires a specific fuel mixture. Use high-quality unleaded gasoline mixed with a premium 2-stroke engine oil at a ratio specified by ECHO (typically 50:1 or 25:1, refer to the fuel cap or a dedicated sticker on the unit for exact ratio). Always use fresh fuel mixture.

4.2 Chain Oil

Fill the chain oil tank with high-quality bar and chain oil. This oil lubricates the chain and guide bar during operation. Do not use waste oil or motor oil.

4.3 Guide Bar and Chain Installation

1. Ensure the engine is off and the spark plug cap is disconnected.
2. Remove the chain cover nuts and the chain cover.
3. Place the chain around the clutch drum and guide bar, ensuring the cutting edges face the correct direction.
4. Fit the guide bar onto the studs and align the chain with the groove in the guide bar.
5. Replace the chain cover and loosely tighten the nuts.
6. Adjust chain tension using the tensioning screw. The chain should be snug against the guide bar but still able to be pulled freely by hand.
7. Tighten the chain cover nuts securely.

5. OPERATING INSTRUCTIONS

5.1 Starting the Chainsaw (ES-Start System)



Figure 5.1: Demonstrating the starting procedure for the ECHO CS-3510ES chainsaw.

1. Place the chainsaw on a firm, flat surface.
2. Engage the chain brake by pushing the front hand guard forward.
3. For a cold engine, pull the choke lever out fully. For a warm engine, the choke may not be necessary.
4. Press the primer bulb several times until fuel is visible.
5. Hold the chainsaw firmly with one hand on the front handle and place your foot on the rear handle.
6. Pull the starter rope with a smooth, steady motion until the engine fires (usually a few pulls).
7. Once the engine fires, push the choke lever in halfway (if applicable) or fully in.
8. Pull the starter rope again until the engine starts and runs.
9. Allow the engine to warm up for a few moments, then disengage the chain brake by pulling the front hand guard back.

5.2 Cutting Techniques



Figure 5.2: A user demonstrating proper technique while cutting wood with the ECHO CS-3510ES chainsaw.



Figure 5.3: A close-up view of the chainsaw's chain engaging with a log during operation.

- Always maintain a firm grip with both hands.
- Keep the chain sharp for efficient and safe cutting.
- Plan your cuts to avoid pinching the guide bar or chain.

- Be aware of falling branches or logs.

5.3 Stopping the Chainsaw

To stop the engine, simply push the stop switch to the 'OFF' position.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your chainsaw.



Figure 6.1: The ECHO CS-3510ES chainsaw positioned on a tree stump, ready for inspection or maintenance.

6.1 Daily Maintenance

- **Clean Air Filter:** The tool-free removable cover allows easy access to the air filter. Clean it regularly, especially in dusty conditions.
- **Check Chain Tension:** Adjust as needed. A properly tensioned chain should be snug but still movable by hand.
- **Inspect Chain Sharpness:** Sharpen the chain if it's dull or damaged.
- **Check Chain Lubrication:** Ensure the chain oil tank is filled and the chain is receiving adequate lubrication during operation.
- **Clean Guide Bar Groove:** Remove sawdust and debris from the guide bar groove.

6.2 Periodic Maintenance

- **Spark Plug:** Inspect and clean the spark plug. Replace if necessary.
- **Fuel Filter:** Check and clean or replace the fuel filter.
- **Cooling Fins:** Clean the engine's cooling fins to prevent overheating.
- **Sprocket:** Inspect the drive sprocket for wear.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Engine won't start	No fuel, incorrect choke position, fouled spark plug, clogged fuel filter	Check fuel level and mixture, adjust choke, clean/replace spark plug, clean/replace fuel filter
Engine runs, but chain does not move	Chain brake engaged, chain tension too tight, clutch issue	Disengage chain brake, adjust chain tension, consult service center for clutch issues
Poor cutting performance	Dull chain, incorrect chain tension, insufficient chain lubrication	Sharpen chain, adjust chain tension, check chain oil level and lubrication system
Engine overheats	Clogged cooling fins, incorrect fuel mixture, prolonged heavy use	Clean cooling fins, ensure correct fuel mixture, allow engine to cool down

8. SPECIFICATIONS

Feature	Specification
Manufacturer	Echo
Model Number	CS-3510AC
Engine Displacement	34.4 cc
Power Output	1.5 Kilowatts (approx. 2.0 HP)
Guide Bar Length	35 cm
Weight (dry)	3.7 kg
ASIN	B0CTQ3SSZ2
Spare Parts Availability	Information unavailable

9. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. Warranty terms may vary by region and retailer.

For technical support or service, please contact an authorized ECHO service center or your product retailer. Information regarding spare parts availability is currently unavailable through general product specifications; please inquire directly with your service provider.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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