

## ECHO ECS300T/S

# ECHO ECS300T/S 10-inch (25cm) Sprocket Nose Bar Chainsaw User Manual

Model: ECS300T/S

## 1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of your ECHO ECS300T/S 10-inch (25cm) Sprocket Nose Bar Chainsaw. Please read this manual thoroughly before using the chainsaw and keep it for future reference. Adherence to these instructions will ensure optimal performance and user safety.

## 2. SAFETY INSTRUCTIONS

Operating a chainsaw can be dangerous if proper safety precautions are not followed. Always prioritize safety to prevent serious injury or death.

- **Personal Protective Equipment (PPE):** Always wear a safety helmet, eye protection, hearing protection, heavy-duty gloves, chainsaw protective trousers or chaps, and safety boots.
- **Work Area:** Ensure the work area is clear of bystanders, children, and pets. Maintain a safe distance from other people and objects.
- **Pre-Operation Check:** Before each use, inspect the chainsaw for loose parts, damage, or wear. Ensure the chain brake is functional and the chain is properly tensioned and sharp.
- **Fuel Handling (for gasoline models):** Handle fuel in a well-ventilated area, away from ignition sources. Do not smoke while refueling. Wipe up any spills immediately.
- **Kickback Prevention:** Be aware of the risk of kickback. Avoid cutting with the tip of the guide bar. Maintain a firm grip with both hands.
- **Stable Footing:** Always maintain secure footing and balance. Do not overreach.
- **Weather Conditions:** Do not operate the chainsaw in adverse weather conditions such as heavy rain, strong winds, or icy conditions.
- **Fatigue:** Do not operate the chainsaw when tired or under the influence of alcohol or medication.

### 3. PRODUCT OVERVIEW

The ECHO ECS300T/S is a compact and powerful chainsaw designed for various cutting tasks. Familiarize yourself with its components for safe and effective use.



An overhead view of the ECHO ECS300T/S chainsaw, featuring a grey and black body with a 10-inch sprocket nose bar and chain. The ECHO logo is visible on the bar and engine casing.

#### Key Components:

- **Guide Bar:** The metal bar that supports and guides the saw chain. This model features a 10-inch (25cm) sprocket nose bar.
- **Saw Chain:** The cutting chain that rotates around the guide bar. This model uses a 91PX specification chain.
- **Engine Housing:** Contains the engine, fuel tank, and oil tank.
- **Front Handle:** For gripping the chainsaw with your left hand.
- **Rear Handle:** For gripping the chainsaw with your right hand, incorporating the throttle trigger and safety lock-out.
- **Chain Brake:** A safety device designed to stop the chain instantly in case of kickback.
- **Starter Handle:** Used to manually start the engine.
- **Fuel Cap:** For the gasoline tank.
- **Oil Cap:** For the chain lubricant oil tank.

### 4. SETUP

#### 4.1 Unpacking

Carefully remove all components from the packaging. Check for any damage during transit. Ensure all parts listed in the packing list are present.

## 4.2 Fuel and Oil Mixture

This chainsaw operates on a mixture of gasoline and 2-stroke engine oil. Use high-quality unleaded gasoline and a premium 2-stroke engine oil specifically designed for air-cooled engines. Refer to the engine oil manufacturer's instructions for the correct mixing ratio, typically 50:1 (50 parts gasoline to 1 part oil) or 25:1. Mix fuel in a separate, approved fuel container. Always add oil to gasoline, not the other way around, and shake well before filling the fuel tank.

- Fill the fuel tank with the prepared fuel mixture.
- Fill the chain oil tank with high-quality bar and chain lubricant. Do not use waste oil or motor oil.

## 4.3 Bar and Chain Installation

1. Ensure the engine is off and the chain brake is engaged.
2. Remove the chain cover nuts and the chain cover.
3. Place the guide bar onto the studs, ensuring the chain tension pin engages with the hole in the guide bar.
4. Carefully fit the saw chain around the sprocket and into the guide bar groove. Ensure the cutting edges of the chain are facing forward on the top of the guide bar.
5. Replace the chain cover and loosely tighten the nuts.

## 4.4 Chain Tension Adjustment

Proper chain tension is crucial for safe and efficient operation. The chain should be snug against the guide bar, but still able to be pulled around by hand with light effort. There should be no sag on the underside of the guide bar.

1. With the chain cover nuts slightly loose, use the tensioning screw (usually located on the side of the chainsaw) to adjust the chain tension.
2. Lift the tip of the guide bar slightly while tightening the chain cover nuts firmly.
3. Check the tension again. The chain should not bind and should move freely.

# 5. OPERATION

## 5.1 Starting the Engine

Always start the chainsaw on a firm, flat surface, ensuring the chain brake is engaged.

### Cold Start:

1. Engage the chain brake.
2. Set the choke lever to the FULL CHOKE position.
3. Press the primer bulb several times until fuel is visible in the return line.
4. Pull the starter handle firmly and smoothly until the engine fires (usually a few pulls).
5. Once the engine fires, immediately push the choke lever to the HALF CHOKE or RUN position.
6. Pull the starter handle again until the engine starts and runs.

7. Allow the engine to warm up for a few moments, then disengage the chain brake and gently blip the throttle to return to idle.

#### Warm Start:

1. Engage the chain brake.
2. Set the choke lever to the RUN position.
3. Pull the starter handle until the engine starts.

## 5.2 Cutting Techniques

Always use both hands to operate the chainsaw. Maintain a firm grip and stable footing.

- **Felling:** For felling small trees, plan your escape route and ensure no one is in the fall zone. Make a directional notch first, then a felling cut from the opposite side.
- **Limbing:** Remove branches from a felled tree. Work from the base towards the top, supporting the branch if it's under tension.
- **Bucking:** Cutting a felled tree into sections. Be aware of pinching and rolling logs. Use a sawhorse or support logs to keep the chain off the ground.

## 5.3 Stopping the Engine

To stop the engine, simply press the engine stop switch to the OFF position. Engage the chain brake immediately after stopping.

# 6. MAINTENANCE

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

## 6.1 Daily Checks

- Check chain tension and sharpness.
- Inspect the guide bar for wear or damage.
- Verify chain brake functionality.
- Check fuel and chain oil levels.
- Clean the air filter.

## 6.2 Chain Sharpening

A sharp chain is critical for efficient cutting and safety. Sharpen the chain regularly using a round file of the correct diameter (refer to chain specifications, typically 4.0mm for 91PX chain) and a flat file for depth gauges. Maintain consistent angles and file all cutters evenly.

## 6.3 Guide Bar Maintenance

- Clean the guide bar groove to remove sawdust and debris.
- Flip the guide bar periodically to ensure even wear.
- Check the sprocket nose for smooth rotation and lubrication.

## 6.4 Air Filter Cleaning

Remove the air filter and clean it with warm, soapy water. Rinse thoroughly and allow it to dry completely

before reinstallation. Replace if damaged or excessively dirty.

6.5 Spark Plug Maintenance

Inspect the spark plug periodically. Clean any carbon deposits and adjust the electrode gap if necessary. Replace the spark plug annually or if it shows signs of wear.

6.6 Storage

Before long-term storage, drain the fuel tank or run the engine until it runs out of fuel. Clean the chainsaw thoroughly. Store in a dry, secure location away from children and ignition sources.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your chainsaw.

Problem	Possible Cause	Solution
Engine won't start	No fuel, incorrect choke setting, fouled spark plug, clogged fuel filter, engaged chain brake.	Check fuel level, adjust choke, clean/replace spark plug, clean/replace fuel filter, disengage chain brake.
Chainsaw cuts poorly	Dull chain, incorrect chain tension, worn guide bar, insufficient chain oil.	Sharpen chain, adjust tension, replace guide bar, check oil level and oiler function.
Engine lacks power	Clogged air filter, incorrect fuel mixture, worn spark plug, carburetor issues.	Clean air filter, use correct fuel mixture, replace spark plug, consult service center for carburetor.
Excessive vibration	Loose components, damaged chain or guide bar.	Tighten all fasteners, inspect and replace damaged chain/bar.

8. SPECIFICATIONS





- **Brand:** ECHO
- **Model:** ECS300T/S
- **Product Dimensions:** 25.7 cm (length) x 21.4 cm (width) x 21 cm (height)
- **Product Weight:** 3 Kilograms
- **Chain Length:** 25 cm (10 inches)
- **Guide Bar Type:** Sprocket Nose Bar
- **Chain Specification:** 91PX
- **Power Source:** Gasoline Engine (based on visual evidence and typical chainsaw design for 91PX chain)
- **First Available Date on Amazon.co.jp:** 2024/6/4



## 9. WARRANTY AND SUPPORT

Specific warranty details and direct support contact information are not available in the provided product data. For warranty claims, technical support, or service, please refer to the documentation included with your purchase or contact your authorized ECHO dealer or the retailer from whom you purchased the product.

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### Related Documents - ECS300T/S

	<p><a href="#">ECHO CS-352 Chainsaw Parts Catalog and Diagrams   ECHO USA</a></p> <p>Comprehensive parts catalog for the ECHO CS-352 Chainsaw, including detailed diagrams, part numbers, and descriptions in English and Spanish. Find all replacement parts for your ECHO chainsaw.</p>
	<p><a href="#">ECHO CS-4920 Chainsaw Parts Catalog</a></p> <p>Detailed parts catalog for the ECHO CS-4920 Chainsaw, listing all components, part numbers, and descriptions for maintenance and repair. Includes diagrams and specifications.</p>
	<p><a href="#">ECHO CS-4920 Chainsaw Operator's Manual</a></p> <p>This operator's manual provides essential safety information, operating instructions, and maintenance guidelines for the ECHO CS-4920 Chainsaw. Learn about safe operation, proper use of safety features, and routine maintenance to ensure the longevity and performance of your ECHO chainsaw.</p>
	<p><a href="#">ECHO CS-620P Chainsaw Operator's Manual</a></p> <p>Comprehensive operator's manual for the ECHO CS-620P Chainsaw, covering safety guidelines, operating procedures, maintenance schedules, troubleshooting tips, and specifications. Essential reading for safe and effective use.</p>

	<p><a href="#">ECHO CS-7310P Chainsaw Parts Catalog</a></p> <p>Official parts catalog for the ECHO CS-7310P Chainsaw, detailing components and part numbers for maintenance and repair. Includes English and Spanish descriptions.</p>
	<p><a href="#">ECHO CS-4510 Chainsaw Parts Catalog and Accessories Guide</a></p> <p>Comprehensive parts catalog and accessory guide for the ECHO CS-4510 chainsaw. Features detailed exploded views, part numbers, and descriptions in English and Spanish for all major components, including engine, carburetor, fuel system, and safety equipment.</p>