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## NEO-TEC HGB12-44-38P050F

# NEOTECH NCS2500 Chainsaw Bar and Chain Combo Instruction Manual

Model: HGB12-44-38P050F

## INTRODUCTION

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This manual provides essential instructions for the safe and effective installation, operation, and maintenance of your NEOTECH NCS2500 12-inch chainsaw bar and chain combo. Please read this manual thoroughly before use and retain it for future reference. Proper understanding and adherence to these instructions will ensure optimal performance and extend the lifespan of your product.

## IMPORTANT SAFETY INFORMATION

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**WARNING: Chainsaws and their components can be dangerous if not handled properly. Always refer to your chainsaw's main instruction manual for comprehensive safety guidelines before installing or operating this bar and chain combo.**

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, hearing protection, and sturdy footwear, when handling or operating chainsaw components.
- Ensure the chainsaw is turned off and the spark plug cap is disconnected (for gasoline models) or the battery is removed (for electric models) before performing any installation, adjustment, or maintenance.
- Inspect the bar and chain for damage or wear before each use. Do not use damaged components.
- Keep hands and body clear of the chain when the chainsaw is running or when adjusting the chain.

## SETUP AND INSTALLATION

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Before installation, verify that the NEOTECH NCS2500 bar and chain combo is compatible with your specific chainsaw model. **Do not rely solely on the chainsaw model number; always check the chain and bar parameters carefully.** This combo is designed for chainsaws requiring a 12-inch bar, 3/8" LP pitch, .050" gauge, and 44 drive links.

### 1. Unpacking and Inspection

Carefully remove the bar and chain from its packaging. Inspect both components for any signs of shipping damage or manufacturing defects. Ensure all parts are present.

## 2. Compatibility Check

Confirm the specifications of your chainsaw's original bar and chain match the NEOTEC NCS2500 combo: 12-inch length, 3/8" LP pitch, .050" gauge, and 44 drive links. Incorrect specifications can lead to improper fit, poor performance, and safety hazards.

## 3. Bar and Chain Installation

1. Ensure the chainsaw is off and secured. Remove the clutch cover and old bar/chain if present.
2. Place the new NEOTEC guide bar onto the chainsaw's bar studs. Ensure the bar adjustment pin aligns with the hole in the guide bar.
3. Carefully loop the new chain around the drive sprocket and into the groove of the guide bar. Ensure the cutting edges of the chain are facing the correct direction (refer to the directional arrow on the guide bar).



Image: Close-up of the guide bar tip, illustrating the chain direction indicator. The orange arrow indicates the direction of chain rotation, and the small chain graphic shows the correct orientation of the drive links.

4. Replace the clutch cover, but do not fully tighten the nuts yet.

## 4. Chain Tensioning

Proper chain tension is critical for safe and efficient operation. The chain should be snug against the guide bar, but still able to be pulled freely by hand. It should not sag on the underside of the bar. Adjust the chain tensioning screw until the chain is correctly tensioned. Once tensioned, fully tighten the clutch cover nuts.



Image: The NEOTEC 12-inch guide bar with a saw chain properly installed. The image shows the full length of the bar and the chain seated in its groove, ready for tensioning.

## OPERATION

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This NEOTEC bar and chain combo is designed for cutting wood with compatible chainsaws. Always operate your chainsaw according to the manufacturer's instructions provided in your chainsaw's main manual. Ensure the chain is properly lubricated with bar and chain oil during operation. Regularly check chain tension during use, especially during the first hour of operation, as new chains can stretch.

## MAINTENANCE

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Regular maintenance of your guide bar and chain will ensure longevity and safe operation.

### 1. Cleaning

After each use, clean the guide bar groove and chain to remove sawdust, sap, and debris. A small pick or screwdriver can be used to clear the bar groove. Ensure the oil holes on the bar are clear to allow proper lubrication.



Image: A detailed view of the guide bar's groove, which guides the saw chain. This area should be kept clean to prevent debris buildup and ensure smooth chain movement.

## 2. Lubrication

Ensure your chainsaw's automatic oiler is functioning correctly and that the oil reservoir is filled with appropriate bar and chain oil. The guide bar tip sprocket (if applicable) should also be greased periodically.

## 3. Chain Sharpening

A sharp chain is essential for efficient and safe cutting. Sharpen the chain regularly using a round file of the correct diameter for 3/8" LP chain (typically 4.0mm or 5/32"). Maintain the correct filing angles as specified by the chain manufacturer. A dull chain can lead to increased effort, poor cuts, and kickback.

## 4. Bar Maintenance

Periodically check the guide bar for wear, especially on the rails. Flip the bar regularly to ensure even wear on both sides. Replace the guide bar if the rails are worn unevenly, pinched, or if the groove is too shallow to properly support the chain drive links.

## TROUBLESHOOTING

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- **Chain dulls quickly:** This can be caused by cutting into dirt, rocks, or metal. Ensure proper sharpening technique and avoid contact with abrasive materials.
- **Chain not cutting straight:** Often indicates uneven sharpening of the cutters or uneven wear on the guide bar rails. Inspect both the chain and bar.
- **Chain binds or smokes:** Check chain tension (it might be too tight) and ensure adequate bar and chain oil lubrication. Also, verify the bar groove is clean and free of debris.
- **Improper fit:** Double-check the bar and chain specifications against your chainsaw's requirements (length, pitch, gauge, drive links). Refer to your chainsaw's manual for correct specifications.

For issues not covered here, consult your chainsaw's main instruction manual or contact NEO-TEC customer support.

## SPECIFICATIONS

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Feature	Specification
Model Number	HGB12-44-38P050F
Bar Length	12 inches
Chain Pitch	3/8" LP (Low Profile)
Chain Gauge	.050 inches
Drive Links	44
Item Weight	1.32 pounds
Product Dimensions	1 x 1 x 1 inches (packaging)

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## WARRANTY AND SUPPORT

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For warranty information and customer support, please refer to the official NEO-TEC website or contact the retailer where the product was purchased. Keep your proof of purchase for any warranty claims.

**Manufacturer:** NEO-TEC

**Part Number:** 001