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> Oregon 16-Inch Pro 91 Bar & 91VG Xtra Guard Saw Chain Combo 105703 Instruction Manual

## Oregon 105703

# Oregon 16-Inch Pro 91 Bar & 91VG Xtra Guard Saw Chain Combo 105703 Instruction Manual

## INTRODUCTION

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This manual provides essential instructions for the safe and effective use, installation, and maintenance of your Oregon 16-Inch Pro 91 Bar and 91VG Xtra Guard .050-Inch Gauge, Low Kickback Saw Chain Combo, Model 105703. This product is designed to deliver reliable cutting performance for various chainsaw applications. Please read this manual thoroughly before installation and operation to ensure proper function and user safety.





Image: The Oregon 16-Inch Pro 91 Bar and 91VG Xtra Guard Saw Chain Combo, featuring the guide bar and saw chain.

## SAFETY INFORMATION

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Always prioritize safety when working with chainsaws and their components. Failure to follow safety guidelines can result in serious injury.

- **Read Chainsaw Manual:** Always refer to your chainsaw's owner's manual for specific safety instructions, installation procedures, and operational guidelines.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses, hearing protection, gloves, and protective legwear, when operating a chainsaw.
- **Low Kickback Design:** This chain features a low kickback design to reduce the risk of kickback.

However, kickback can still occur. Always maintain a firm grip and proper stance.

- **Chain Sharpening:** A dull chain can increase the risk of kickback and make cutting more difficult. Keep the chain sharp according to the manufacturer's recommendations.
- **Proper Tension:** Ensure the saw chain is correctly tensioned before each use. An improperly tensioned chain can derail or cause injury.
- **Lubrication:** Ensure the chainsaw's automatic oiler is functioning correctly and that the bar and chain are adequately lubricated during operation.

## PACKAGE CONTENTS

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Verify that all components are present and undamaged upon opening the package:

- Oregon 16-Inch Guide Bar (Part Number 160SPEA074)
- Oregon 91VG Xtra Guard Saw Chain (Part Number 91VG055G)

## SETUP AND INSTALLATION

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This section outlines the general steps for installing the guide bar and saw chain. Always consult your chainsaw's specific instruction manual for detailed installation procedures.

### Compatibility Check

This combo is compatible with various Olypmk and Stihl saw models. Before installation, verify that your chainsaw's pitch, gauge, and bar length requirements match the specifications of this product:

- **Pitch:** 3/8-inch Low Profile
- **Gauge:** .050-inch
- **Bar Length:** 16-inch

### Installation Steps

1. **Ensure Power Off:** Disconnect the spark plug wire or remove the battery from your chainsaw to prevent accidental starting.
2. **Remove Old Bar and Chain:** Loosen the bar nuts and remove the clutch cover. Carefully remove the old guide bar and saw chain.
3. **Clean Components:** Clean any sawdust or debris from the clutch area, bar groove, and oil holes.
4. **Install New Bar:** Place the new Oregon 16-inch guide bar onto the bar studs. Ensure the bar's oil holes align with the chainsaw's oiler port.
5. **Install New Chain:** Carefully loop the Oregon 91VG Xtra Guard saw chain around the drive sprocket and into the guide bar groove. Ensure the cutting edges of the chain are facing the correct direction (usually indicated by an arrow on the chain or bar).
6. **Replace Clutch Cover:** Reinstall the clutch cover and hand-tighten the bar nuts. Do not fully tighten yet.
7. **Adjust Chain Tension:** Adjust the chain tensioning screw until the chain is snug against the bottom of the guide bar, but can still be pulled freely by hand. The chain should not sag on the underside of the bar. Refer to your chainsaw manual for precise tensioning instructions.
8. **Tighten Bar Nuts:** While holding the tip of the bar up, fully tighten the bar nuts securely.
9. **Final Check:** Reconnect the spark plug wire or reinstall the battery. Perform a final check of chain

tension and ensure all components are properly secured before starting the chainsaw.

## OPERATING INSTRUCTIONS

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Once the bar and chain are correctly installed, follow these general operating guidelines. Always refer to your chainsaw's manual for detailed operating procedures.

- **Pre-Operation Check:** Before each use, inspect the chain for sharpness, proper tension, and any damage. Check the guide bar for wear or damage. Ensure the oil reservoir is full.
- **Starting the Chainsaw:** Follow your chainsaw manufacturer's instructions for starting.
- **Cutting Technique:** Maintain a firm grip on both handles. Keep your body balanced and avoid overreaching. Let the chain do the work; do not force the saw.
- **Lubrication During Use:** The chainsaw's automatic oiler should provide continuous lubrication to the bar and chain. Periodically check for oil flow by holding the saw over a light-colored surface and revving the engine; a line of oil should appear.
- **Avoid Obstacles:** Do not allow the chain to contact dirt, rocks, or metal, as this will dull the chain quickly and can cause damage.

## MAINTENANCE

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Regular maintenance extends the life of your Oregon bar and chain and ensures safe, efficient operation.

### Chain Sharpening

The Oregon 91VG Xtra Guard chain is designed to stay sharp, but will require sharpening over time. A sharp chain cuts efficiently and safely. Refer to Oregon's sharpening guides or consult a professional for proper sharpening techniques. Incorrect sharpening can affect chain performance and safety features.

### Guide Bar Maintenance

- **Clean Bar Groove:** Regularly clean the guide bar groove to remove sawdust and debris that can impede chain movement and oil flow.
- **Check for Burrs:** Inspect the guide bar rails for burrs. File down any burrs to ensure smooth chain travel.
- **Flip Bar:** To promote even wear, flip the guide bar periodically (e.g., after every few hours of use or chain sharpening).
- **Inspect for Wear:** Check the guide bar for excessive wear, especially at the nose and along the rails. Replace the bar if wear is significant or if it's bent.

### General Cleaning and Storage

After each use, clean the bar and chain thoroughly. Remove sap and resin buildup. Store the bar and chain in a dry place to prevent rust. If storing for an extended period, lightly oil the chain and bar.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Chain not cutting efficiently	Dull chain, incorrect sharpening angle, improper chain tension, insufficient lubrication.	Sharpen chain, verify sharpening angles, adjust chain tension, check oiler function and oil level.
Chain smoking or overheating	Insufficient lubrication, dull chain, improper chain tension (too tight), clogged bar groove.	Check oiler, sharpen chain, adjust chain tension, clean bar groove.
Chain derails from bar	Improper chain tension (too loose), worn guide bar, damaged chain.	Adjust chain tension, inspect and replace worn guide bar, inspect and replace damaged chain.
Saw pulls to one side	Unevenly sharpened chain, worn guide bar rails.	Resharpen chain evenly, inspect and replace worn guide bar.

## SPECIFICATIONS

Feature	Detail
Brand	Oregon
Model Number	105703
Bar Length	16 Inches
Chain Pitch	3/8-inch Low Profile
Chain Gauge	.050-inch
Drive Links	55
Guide Bar Part Number	160SPEA074
Saw Chain Part Number	91VG055G
Item Weight	1 Ounce (approximate)
UPC	036577400066

## WARRANTY INFORMATION

Oregon products are warranted against defects in material and workmanship. For specific details regarding the warranty period and claims process, please refer to the official Oregon warranty statement provided with your product or visit the official Oregon website. This warranty typically covers manufacturing defects and does not cover wear and tear from normal use, improper installation, or misuse.

## CUSTOMER SUPPORT

For further assistance, technical support, or to inquire about replacement parts, please contact Oregon customer service. You can typically find contact information on the official Oregon website or within the product packaging.

**Online Resources:** Visit the official Oregon website for product information, FAQs, and additional support materials.