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## RATION 16HS58SPNA

# RATION 16-inch Windsor Roll Top Chainsaw Bar (16HS58SPNA) User Manual

### 1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your RATION 16-inch Windsor Roll Top Chainsaw Bar, model 16HS58SPNA. Adhering to these guidelines will help ensure safe and efficient use of your chainsaw bar and extend its lifespan. Please read this manual thoroughly before installation and operation.

### 2. SAFETY INFORMATION

**WARNING:** Chainsaws are powerful tools that can cause serious injury if not handled properly. Always prioritize safety when working with chainsaw components.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, hearing protection, and sturdy footwear.
- Ensure the chainsaw engine is off and the spark plug cap is disconnected before performing any installation, maintenance, or inspection.
- Refer to your chainsaw's original manufacturer's manual for specific safety instructions related to your chainsaw model.
- Keep children and bystanders away from the work area.

### 3. PRODUCT OVERVIEW

The RATION 16-inch Windsor Roll Top Chainsaw Bar (model 16HS58SPNA) is a replacement guide bar designed for specific chainsaw models, including Husqvarna. It features a 3/8-inch pitch and a .058-inch gauge, compatible with 60DL (drive link) chainsaw chains. This bar is engineered to provide reliable performance and guide the chainsaw chain smoothly during cutting operations.



An image showing the RATION 16-inch Windsor Roll Top Chainsaw Bar. The bar is a long, flat, grey metal component with a rounded tip and mounting holes at the base, designed for guiding a chainsaw chain.

#### 4. SETUP AND INSTALLATION

Before installing the new chainsaw bar, ensure it is compatible with your chainsaw model. Verify the bar length, pitch, gauge, and drive link count match your chainsaw's requirements and the chain you intend to use.

##### Installation Steps:

1. **Prepare the Chainsaw:** Ensure the chainsaw engine is off and the spark plug cap is disconnected to prevent accidental starting. Engage the chain brake.
2. **Remove Old Bar/Chain:** Loosen the bar nuts that secure the clutch cover. Remove the clutch cover, then carefully remove the old chain and guide bar.
3. **Clean Components:** Clean any sawdust, debris, or old oil from the clutch area, bar mounting studs, and oil passages on the chainsaw.
4. **Install New Bar:** Place the RATION 16-inch Windsor Roll Top Chainsaw Bar onto the mounting studs. Ensure the bar's slot aligns with the tensioning pin.
5. **Install New Chain:** Loop the chainsaw chain around the drive sprocket and guide it into the groove of the new bar. Ensure the cutting edges of the chain are facing the correct direction.
6. **Replace Clutch Cover:** Reinstall the clutch cover, ensuring the chain tensioner pin engages with the bar. Hand-tighten the bar nuts.
7. **Adjust Chain Tension:** Adjust the chain tension according to your chainsaw manufacturer's specifications. The chain should be snug against the bar but still able to be pulled freely by hand. It should not sag on the underside of the bar.
8. **Final Tightening:** Once tension is set, fully tighten the bar nuts.
9. **Reconnect Spark Plug:** Reconnect the spark plug cap.

#### 5. OPERATING INSTRUCTIONS

Once the chainsaw bar and chain are correctly installed and tensioned, ensure proper lubrication before operation. The chainsaw's automatic oiler system should be functioning correctly to supply bar and chain oil to the guide bar and chain. Insufficient lubrication can lead to rapid wear of both the bar and chain, and can cause overheating.

- **Check Oil Level:** Always ensure the chainsaw's bar and chain oil reservoir is full before starting work.

- **Monitor Lubrication:** During operation, periodically check that oil is being dispensed from the bar. A common test is to hold the tip of the bar over a light-colored surface (e.g., a piece of cardboard) while the chain is running at medium speed; a line of oil should be visible.
- **Proper Cutting Technique:** Use proper cutting techniques as outlined in your chainsaw's manual to minimize stress on the bar and chain. Avoid forcing the bar into the wood.

## 6. MAINTENANCE

Regular maintenance of your chainsaw bar is crucial for optimal performance and longevity.

### Maintenance Schedule:

- **After Each Use:**
  - Clean the bar groove to remove sawdust and debris. A bar groove cleaner tool is recommended.
  - Inspect the bar for burrs on the rails. File them smooth if present.
  - Check the oil holes for blockages and clear them if necessary.
- **Periodically (e.g., every 5-10 hours of use):**
  - Flip the bar over to ensure even wear on both sides of the rails.
  - Inspect the bar tip for wear or damage.
- **Storage:** When storing the chainsaw for extended periods, remove the bar and chain, clean them thoroughly, and apply a light coat of oil to prevent rust.

## 7. TROUBLESHOOTING

If you encounter issues with your chainsaw bar, consider the following common problems and solutions:

- **Problem:** Chain binds or cuts crooked.  
Solution: Check chain tension. Ensure the bar groove is clean and free of debris. Inspect the bar rails for uneven wear or damage.
- **Problem:** Excessive smoke or heat from the bar/chain.  
Solution: Verify the chainsaw's oiler is functioning and the oil reservoir is full. Clean oil passages on the bar and chainsaw. Ensure the chain is sharp and correctly tensioned.
- **Problem:** Rapid wear on one side of the bar.  
Solution: Ensure the bar is flipped periodically to promote even wear. Check for proper chain tension and cutting technique.

If problems persist, consult a qualified chainsaw technician or refer to your chainsaw's original manual.

## 8. SPECIFICATIONS

<b>Brand</b>	RATION
<b>Model Number</b>	16HS58SPNA
<b>Length</b>	16 inches
<b>Pitch</b>	3/8 inch
<b>Gauge</b>	.058 inch

<b>Drive Links (Compatible)</b>	60DL
<b>ASIN</b>	B0DLLG77N9

This manual is for informational purposes only. Always follow the safety guidelines provided by your chainsaw manufacturer.