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› NEO-TEC 16 Inch Chainsaw Guide Bar & Chain Combo Instruction Manual

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Model: 16 Inch Chainsaw Guide Bar & Chain Combo

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1. INTRODUCTION

This manual provides essential information for the proper installation, safe operation, and maintenance of your NEO-TEC 16 Inch Chainsaw Guide Bar and Chain Combo. Please read these instructions thoroughly before use to ensure safety and optimal performance. This product is designed for use with compatible chainsaws as specified in the compatibility section.

2. PRODUCT OVERVIEW

The NEO-TEC 16 Inch Chainsaw Guide Bar and Chain Combo is a high-quality replacement or upgrade kit for various chainsaw models. It includes a durable guide bar and a full chisel saw chain, engineered for efficient wood cutting.



Figure 2.1: Chainsaw equipped with the NEO-TEC 16-inch guide bar and chain. This image illustrates the product in a typical operational setting.

Key Features:

- **Guide Bar Length:** 16 inches
- **Chain Pitch:** 0.325 inches
- **Chain Gauge:** 0.050 inches
- **Drive Links:** 66
- **Chain Type:** Full Chisel for aggressive cutting
- **Tail Mount:** 8.2mm (K095)



Figure 2.2: Detail of the guide bar tail, illustrating the mounting mechanism. This part connects the guide bar to the chainsaw engine housing.



Figure 2.3: Close-up view of the guide bar tip, showing the sprocket nose. The sprocket nose helps reduce friction and improve chain speed.



Figure 2.4: Close-up of the full chisel saw chain links. This chain design provides aggressive cutting performance.

FULL-CHISEL

A FULL-CHISEL CHAIN IS A GOOD SELECTION, BECAUSE IT HAS ROUND-CORNERED TEETH WITH A ROUND GRID EDGE, WHICH MAKES IT EASY TO FILE. IT CUTS SLOWER THAN A FULL CHISEL CHAIN, BUT IT WILL STAY SHARPER LONGER EVEN IN ROUGH SAWING CONDITIONS.

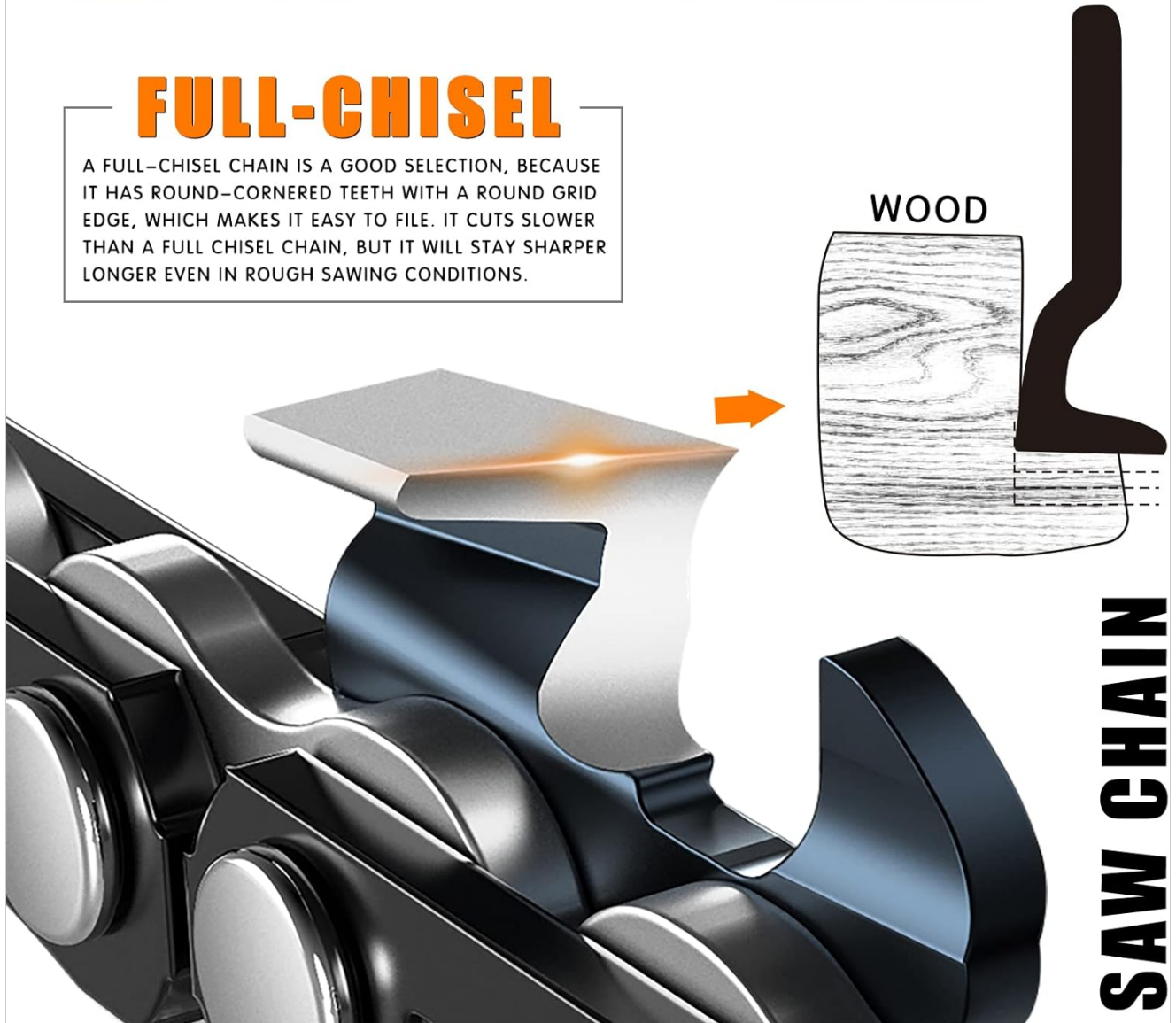


Figure 2.5: Diagram illustrating the full chisel chain cutting action and tooth profile. This shows how the sharp, square-cornered teeth engage with wood.

3. COMPATIBILITY

This NEO-TEC 16 Inch Guide Bar and Chain Combo is designed to fit a wide range of chainsaws. It is crucial to verify your chainsaw's specifications (bar length, pitch, gauge, and drive links) against the product specifications before installation.

Compatible Chainsaw Brands/Models:

- **NEOTEC:** Various models
- **HUSQVARNA:** 133, 140, 1400, 141, 154, 1600, 234, 238, 240, 242, 243, 246, 254, 257, 261, 262, 33, 336, 338XPT, 339XP, 340, 345, 346, 350, 351, 353, 353E-TECH, 355, 357, 359, 36, 360, 362, 38, 40, 41, 42, 435, 44, 440, 444, 445, 45, 450, 455, 460, 466, 49, 50, 51, 543XP, 545, 55, 550XP, 555, 560XP, 57
- **ECHO:** CS-4510
- **CRAFTSMAN:** 316.35022, 316.35084, 316.35085, 35201, 38180, 41AY85AR799
- **PARTNER:** 365, 400, 405, 410, 450, 460, 510, 540, EL1450, EL1650, P-360, P-400, P-450, P-500, P-5000

- **POULAN:** 325
- **MCCULLOCH:** 300
- **DOLMAR:** 109, 110, 111, 113, 115, 115I, PS-460, PS-510, PS-5100S, PS-5100SH, PS-5105, PS-5105H, PS-540, PS-6100, PS-6100H
- **EFCO:** 181, MT 6500, MT 7200, MT 8200
- **JONSERED:** 2012, 2014, 2015, 2036, 2040, 2041, 2045, 2050, 2050 Turbo, 2051, 2054, 2055, 2063, 2141, 2145, 2149, 2149 Turbo, 2150, 2152, 2159, 2163, 370, 410, 420, 425, 435, 45, 450, 451, 455, 49, 490, 50, 51, 510, 52, 520, 520SP, 521, 525, 535, 590, CS 2141, CS 2145, CS 2149, CS 2150, CS 2152, CS 2152W, CS 2153, CS 2156, CS 2159

Important Note: This guide bar is **NOT** compatible with Stihl chainsaws.

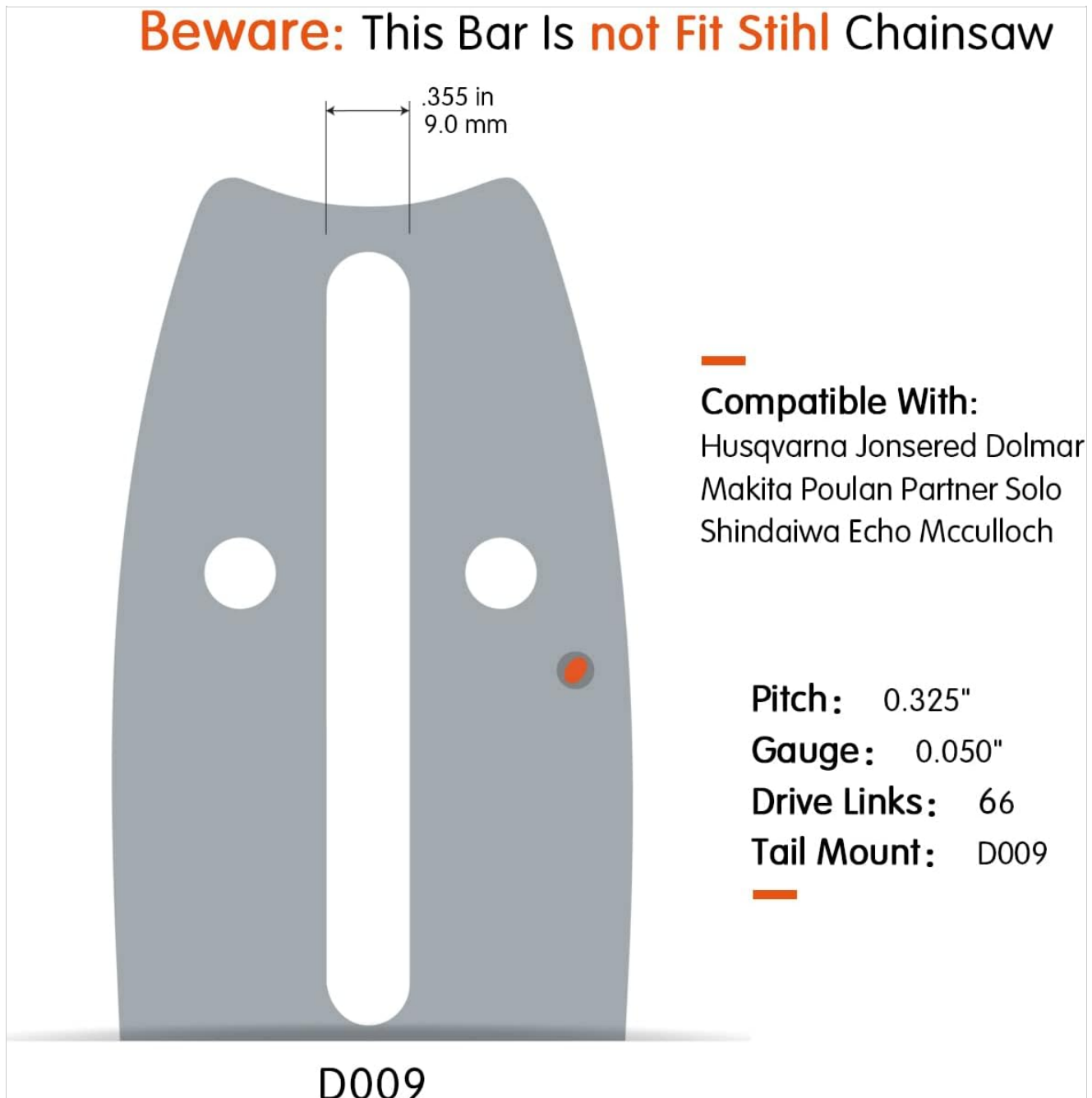


Figure 3.1: Diagram showing the D009 tail mount dimensions and compatible brands, with a warning that it is not compatible with Stihl chainsaws. Always verify your chainsaw's tail mount type.

4. SAFETY INFORMATION

Operating a chainsaw can be dangerous. Always prioritize safety. This guide bar and chain are components of a chainsaw system. Refer to your chainsaw's original instruction manual for comprehensive safety guidelines.

General Safety Precautions:

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including a helmet with face shield, hearing protection, safety glasses, heavy-duty gloves, chainsaw protective trousers/chaps, and steel-toed boots.
- **Read Manuals:** Thoroughly read and understand both this manual and your chainsaw's owner's manual before operation.
- **Inspect Equipment:** Before each use, inspect the chainsaw, guide bar, and chain for damage, wear, or loose components. Ensure the chain is sharp and properly tensioned.
- **Work Area:** Clear the work area of obstacles, bystanders, and pets. Ensure stable footing.
- **Fuel/Power:** Handle fuel safely (for gas chainsaws) or ensure power cords are clear (for electric chainsaws).
- **Kickback:** Be aware of kickback hazards. Avoid cutting with the tip of the guide bar.
- **Chain Brake:** Ensure the chain brake is functional and engaged when starting or moving the chainsaw.
- **First Aid:** Have a first aid kit readily available and know how to use it.

5. SETUP & INSTALLATION

Installing the guide bar and chain requires careful attention to detail. Always refer to your specific chainsaw's owner's manual for detailed, model-specific instructions. The following are general steps:

Installation Steps:

1. **Ensure Safety:** Disconnect the spark plug wire (gas chainsaws) or unplug the power cord (electric chainsaws) to prevent accidental starting. Engage the chain brake.
2. **Remove Old Components:** Loosen the bar nuts and remove the clutch cover. Carefully remove the old guide bar and chain.
3. **Clean:** Clean any sawdust or debris from the clutch area, bar mounting studs, and guide bar groove.
4. **Install New Chain:** Place the new NEO-TEC chain around the clutch sprocket, ensuring the cutting edges are facing the correct direction (usually forward on the top of the bar).
5. **Mount Guide Bar:** Slide the new NEO-TEC guide bar onto the bar mounting studs. Align the chain drive links with the groove in the guide bar.
6. **Position Chain:** Guide the chain around the nose sprocket of the guide bar. Ensure all drive links are seated correctly in the bar groove.
7. **Replace Clutch Cover:** Reinstall the clutch cover, ensuring the chain tensioner pin engages with the hole in the guide bar. Hand-tighten the bar nuts.
8. **Adjust Chain Tension:** Adjust the chain tension according to your chainsaw's manual. The chain should be snug against the bottom of the guide bar, but still able to be pulled freely by hand. It should not sag underneath the bar.
9. **Tighten Bar Nuts:** Fully tighten the bar nuts securely.
10. **Check Lubrication:** Ensure the chainsaw's oil reservoir is filled with appropriate bar and chain oil.
11. **Final Inspection:** Reconnect the spark plug wire or plug in the power cord. Perform a brief test run to ensure proper operation and lubrication.

6. OPERATION

Once the NEO-TEC guide bar and chain are correctly installed and tensioned, operate your chainsaw according to

its manufacturer's instructions. The full chisel chain is designed for aggressive and fast cutting in clean wood.

Operational Guidelines:

- **Lubrication:** Always ensure the chain is adequately lubricated during operation. Check the oil level frequently.
- **Chain Speed:** Operate the chainsaw at full throttle when cutting to ensure proper chain speed and lubrication.
- **Cutting Technique:** Use proper cutting techniques to avoid kickback and maintain control. Do not force the saw; let the sharp chain do the work.
- **Sharpness:** A sharp chain cuts efficiently and safely. A dull chain will produce fine sawdust instead of chips and require more force, increasing the risk of accidents.
- **Environmental Conditions:** Be mindful of weather conditions. Avoid operating in rain or extreme cold/heat if not designed for such conditions.

7. MAINTENANCE

Regular maintenance of your NEO-TEC guide bar and chain will extend their lifespan and ensure safe, efficient operation.

Maintenance Schedule:

- **After Each Use:**
 - Clean the guide bar groove to remove sawdust and debris.
 - Check chain tension and adjust if necessary.
 - Inspect the chain for sharpness and damage. Sharpen or replace as needed.
 - Inspect the guide bar for burrs or uneven wear. File down burrs if present.
- **Periodically (e.g., every 8-10 hours of use):**
 - Flip the guide bar over to ensure even wear on both sides.
 - Check the guide bar rails for spreading or damage. Replace if significantly worn.
 - Clean the oil holes on the guide bar to ensure proper lubrication flow.
 - Inspect the drive sprocket for wear. Replace if teeth are hooked or worn.

Chain Sharpening:

The full chisel chain requires specific sharpening techniques. Use a round file of the correct diameter (typically 5/32" or 4.0mm for 0.325" pitch chains, but verify with chain manufacturer) and a flat file for depth gauges. Maintain consistent angles for optimal cutting performance. If unsure, consult a professional.

8. TROUBLESHOOTING

This section addresses common issues related to the guide bar and chain. For chainsaw-specific problems, refer to your chainsaw's manual.

Problem	Possible Cause	Solution
Chain cuts crooked or unevenly	Unevenly sharpened cutters; worn guide bar rails; bent guide bar.	Resharpener chain evenly; replace guide bar if worn or bent.
Chain produces fine sawdust instead of chips	Dull chain.	Sharpen chain.
Chain binds or stalls in cut	Dull chain; improper chain tension; insufficient lubrication; guide bar pinch.	Sharpen chain; adjust chain tension; check oiler for proper function; ensure guide bar groove is clean.
Chain comes off guide bar	Loose chain tension; worn guide bar; worn drive sprocket.	Adjust chain tension; inspect and replace worn components.
Excessive vibration	Damaged chain; bent guide bar; loose components.	Inspect and replace damaged chain or guide bar; tighten all fasteners.

9. SPECIFICATIONS

Detailed technical specifications for the NEO-TEC 16 Inch Chainsaw Guide Bar & Chain Combo:

- **Bar Length:** 16 Inches
- **Chain Pitch:** 0.325 Inches
- **Chain Gauge:** 0.050 Inches
- **Drive Links:** 66
- **Chain Type:** Full Chisel
- **Tail Mount:** 8.2mm (K095 / D009)
- **Brand:** NEO-TEC

10. WARRANTY & SUPPORT

For warranty information or technical support regarding your NEO-TEC 16 Inch Chainsaw Guide Bar & Chain Combo, please contact NEO-TEC customer service. Keep your purchase receipt as proof of purchase. Contact information can typically be found on the product packaging or the official NEO-TEC website.