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> Archer 18-inch 3/8LP .050 60DL Chainsaw Chain Instruction Manual

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INTRODUCTION

This manual provides essential information for the proper selection, installation, operation, and maintenance of your Archer 18-inch 3/8LP .050 60DL Chainsaw Chain. To ensure safe and efficient performance, it is crucial to understand the specifications of your chainsaw and the replacement chain. Always match the correct pitch, gauge, and drive link count for optimal fit and safety.

SETUP AND CHAIN SELECTION

Selecting the correct replacement chain is critical for safety and performance. Chainsaw chains are specified by their length, pitch, gauge, and drive link count. Refer to your chainsaw's manual for its specific requirements. If you are unsure, measure your existing chain and guide bar carefully.

How to Measure Your Chainsaw Bar and Chain

The following diagram illustrates how to accurately measure the key parameters of your chainsaw bar and chain:

All chainsaw chains are called length, and sold by pitch, gauge, and drive link count and your replacement chain will always fit when you match the correct pitch, gauge, and drive link count.

How to Measure A Chainsaw Bar

Chain Pitch Chain pitch is the distance between any three consecutive rivets, divided by two.

Distance from the front of the saw to the tip of the farthest cutter, rounded to the nearest inch

Called length OR **Cutting Length**

Depth Gauge Chain gauge is the drive link's thickness where it fits into the guide-bar groove.

PITCH	
GAUGE	
BAR LENGTH	
DRIVE LINKS	

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Chain Pitch: This is the distance between any three consecutive rivets on the chain, divided by two. It determines how the chain engages with the sprocket.

Chain Gauge: This refers to the thickness of the drive links, which is the part of the chain that fits into the guide bar groove. An incorrect gauge can cause the chain to bind or come off the bar.

Bar Length (Called Length or Cutting Length): This is the distance from the front of the saw to the tip of the farthest cutter, rounded to the nearest inch. This measurement determines the overall length of the chain required.

Drive Links: These are the individual links on the chain that fit into the guide bar groove and engage with the drive sprocket. Counting these links is essential for ensuring the correct chain length.

Chain Installation

1. **Safety First:** Always ensure the chainsaw engine is off and the spark plug wire is disconnected before handling the chain. Wear heavy-duty gloves.
2. **Remove Old Chain:** Loosen the bar nuts and remove the clutch cover. Carefully remove the old chain and guide bar.
3. **Clean Components:** Clean any sawdust or debris from the clutch area, guide bar groove, and sprocket.
4. **Install New Chain:** Place the new Archer chain onto the drive sprocket, ensuring the cutters are facing the correct direction (usually indicated by an arrow on the chain or a diagram in your chainsaw manual).
5. **Mount Guide Bar:** Fit the guide bar over the chain and the bar studs. Ensure the drive links sit properly in the guide bar groove.
6. **Replace Clutch Cover:** Reinstall the clutch cover and hand-tighten the bar nuts.
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. There should be no slack on the underside of the bar, and the drive links should not lift out of the bar groove.
8. **Tighten Bar Nuts:** Fully tighten the bar nuts. Recheck chain tension after tightening.

OPERATING GUIDELINES

While this manual focuses on the chain, proper operation of the chainsaw is essential for chain longevity and user safety. Always refer to your chainsaw's instruction manual for complete operating procedures.

- **Chain Lubrication:** Ensure the chainsaw's oil reservoir is filled with appropriate bar and chain oil. Proper lubrication is vital to reduce friction, heat, and wear on the chain and guide bar.
- **Check Tension Regularly:** Chain tension can change during operation due to heat and stretching. Check tension frequently, especially during the first hour of use, and adjust as needed. A loose chain can derail, and an overly tight chain can cause premature wear and damage.
- **Safe Cutting Practices:** Always operate the chainsaw with both hands, maintain a firm grip, and stand in a balanced position. Be aware of kickback risks.

MAINTENANCE

Regular maintenance extends the life of your Archer chainsaw chain and ensures safe operation.

- **Sharpening:** A sharp chain cuts efficiently and safely. Sharpen the chain regularly using a round file of the correct diameter for your chain's pitch (e.g., 5/32" for 3/8LP). Maintain the correct filing angles as specified by your chainsaw or chain manufacturer.
- **Cleaning:** After each use, clean sawdust, sap, and debris from the chain and guide bar. Pay attention to the guide bar groove and the oil holes.
- **Inspection:** Regularly inspect the chain for damaged or missing cutters, cracked drive links, or stretched rivets. Inspect the guide bar for burrs, uneven wear, or a clogged oil port. Replace the chain or guide bar if significant damage is found.
- **Storage:** When not in use, clean and lightly oil the chain before storing it in a dry place. Consider using a chain guard to protect the cutters.

TROUBLESHOOTING

Here are common issues and their potential solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Chain not cutting efficiently / dull cuts	Dull cutters, incorrect sharpening angle, chain installed backward.	Sharpen chain, verify sharpening angles, ensure chain is installed with cutters facing forward.
Chain smoking / excessive heat	Lack of lubrication, incorrect chain tension (too tight), dull chain.	Check bar oil level, adjust chain tension, sharpen chain.
Chain derails from guide bar	Loose chain tension, worn guide bar groove, incorrect chain pitch/gauge.	Adjust chain tension, inspect guide bar for wear, ensure correct chain specifications.
Chain binds in cut	Dull chain, incorrect chain tension (too tight), guide bar pinched.	Sharpen chain, adjust chain tension, ensure proper cutting technique.

SPECIFICATIONS

- **Brand:** Archer
- **Chain Length:** 18 inches
- **Chain Pitch:** 3/8" LP (Low Profile)
- **Chain Gauge:** .050"
- **Drive Link Count:** 60
- **Chain Type:** Full Complement
- **Material:** High Quality Japanese Steel
- **Compatibility:** Designed for various McCulloch, Eager Beaver, and other chainsaw models requiring 18" 3/8LP .050 60DL chains. Refer to your chainsaw manual for exact specifications.

WARRANTY AND SUPPORT

For warranty information regarding your Archer Chainsaw Chain, please refer to the documentation provided with your purchase or contact Archer customer support directly. For technical assistance or further inquiries, please reach out to the manufacturer or authorized dealer.