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› FJSaDobo 1123 640 7102 Worm Gear Assembly Instruction Manual for Stihl MS Series Chainsaws

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For Stihl MS Series Chainsaws

1. PRODUCT OVERVIEW

This document provides instructions for the FJSaDobo 1123 640 7102 Worm Gear Assembly, a critical component for the oil pump system in compatible Stihl chainsaws. The worm gear drives the oil pump, ensuring proper lubrication of the chain and bar during operation.

1.1 Compatibility

This worm gear assembly is designed as a direct replacement for Stihl OEM part numbers **1123 640 7102** and **1123 640 7105**. It is compatible with the following Stihl chainsaw models:

- Stihl 021, 023, 025
- Stihl MS 170, MS 171, MS 180, MS 181
- Stihl MS 190 T, MS 191 T
- Stihl MS 210, MS 211, MS 230, MS 231
- Stihl MS 250, MS 251

1.2 Package Contents

Each package includes **2 X Worm Gear Assy.**



Figure 1: Two FJSaDobo worm gear assemblies, showing their compact design with a central brass bushing and an integrated spring.

1123 640 7102
1123 640 7105



Figure 2: Illustration of the worm gear and spring component, alongside images of a chainsaw being used for cutting wood,

2. INSTALLATION GUIDE

Safety First: Always ensure the chainsaw is turned off, the spark plug cap is removed, and the chain brake is engaged before performing any maintenance or installation. Wear appropriate personal protective equipment (PPE) such as gloves and eye protection.

2.1 Required Tools

- Screwdrivers (various sizes)
- Socket wrench set
- Pliers
- Clean cloth

2.2 Step-by-Step Installation

1. **Prepare the Chainsaw:** Place the chainsaw on a stable, flat surface. Ensure the engine is cool.
2. **Access the Clutch Cover:** Remove the chain brake cover and the guide bar and chain.
3. **Remove the Clutch Assembly:** Depending on your specific Stihl model, you may need a clutch removal tool. Carefully remove the clutch drum and clutch shoes to expose the oil pump and worm gear area.
4. **Locate and Remove Old Worm Gear:** Identify the existing worm gear, which is typically located behind the clutch assembly and engages with the oil pump. Carefully detach it from its shaft or housing. Note its orientation for correct installation of the new part.
5. **Clean the Area:** Thoroughly clean any sawdust, oil residue, or debris from the oil pump and surrounding components.
6. **Install New Worm Gear:** Position the new FJSaDobo worm gear assembly onto the shaft, ensuring it engages correctly with the oil pump mechanism. The integrated spring should be properly seated.
7. **Reassemble Components:** Reinstall the clutch assembly, clutch drum, guide bar, and chain. Secure the chain brake cover.
8. **Test Oiling System:** After reassembly, fill the oil tank with appropriate bar and chain oil. Start the chainsaw and observe the oil flow to the guide bar. Ensure consistent lubrication.

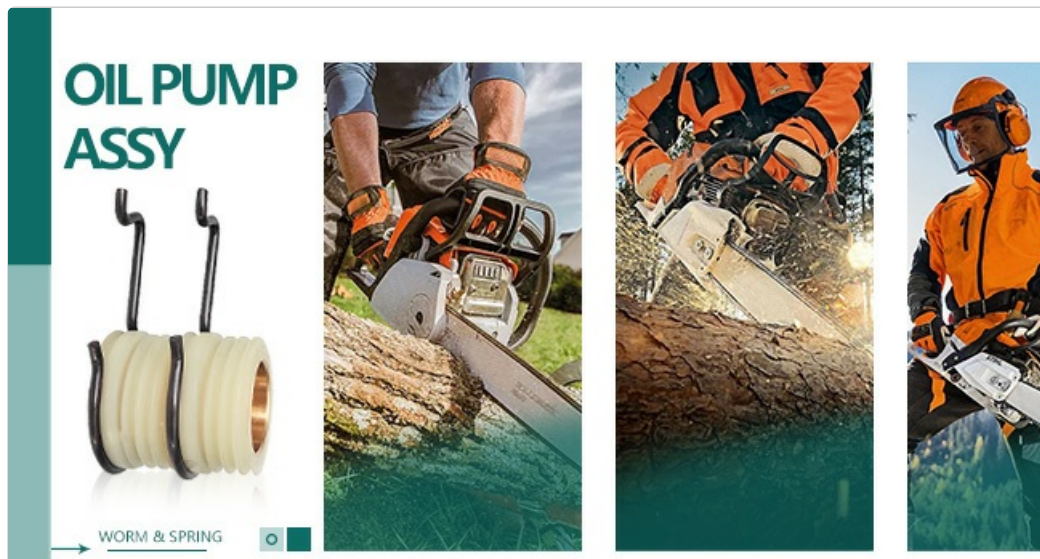


Figure 3: Diagram illustrating the oil pump assembly, including the worm gear, and its function within a chainsaw during operation.

3. OPERATION AND FUNCTION

The worm gear assembly is a crucial part of your chainsaw's automatic oiling system. It receives rotational power from the engine's crankshaft (via the clutch drum) and transfers it to the oil pump. This action causes the oil pump to draw bar and chain oil from the reservoir and deliver it to the guide bar and chain, ensuring continuous lubrication during cutting operations.

Proper functioning of the worm gear is essential for:

- **Reduced Friction:** Minimizes wear on the guide bar and chain.
- **Heat Dissipation:** Helps to cool the cutting components.
- **Extended Lifespan:** Prolongs the life of the chain, bar, and oil pump.

4. MAINTENANCE

Regular maintenance of the worm gear and the entire oiling system is vital for the longevity and performance of your chainsaw.

4.1 Inspection

- **Visual Check:** Periodically inspect the worm gear for signs of wear, such as stripped teeth, cracks, or deformation.
- **Oil Flow:** Regularly check that the chainsaw is consistently delivering oil to the bar and chain. A lack of oil flow can indicate a worn worm gear or a clogged oil pump.
- **Spring Condition:** Ensure the integrated spring is intact and provides adequate tension.

4.2 Cleaning

- When performing other chainsaw maintenance (e.g., cleaning the clutch area), take the opportunity to clean the worm gear and its housing.
- Remove any accumulated sawdust, dirt, or hardened oil that could impede its movement or damage the oil pump.

4.3 Replacement

Replace the worm gear assembly if you observe significant wear, damage, or if the oiling system is malfunctioning despite other troubleshooting steps. A worn worm gear can lead to insufficient lubrication, causing premature wear of the bar and chain, and potentially overheating.

5. TROUBLESHOOTING COMMON ISSUES

If you experience problems with your chainsaw's oiling system, the worm gear assembly might be a contributing factor. Here are some common issues and potential solutions:

- **No Oil Flow to Bar and Chain:**
 - **Cause:** Clogged oil passages, empty oil tank, faulty oil pump, or a worn/damaged worm gear.

- **Solution:** Check oil tank level. Clean oil passages and the oil pump filter. Inspect the worm gear for wear; replace if necessary.
- **Intermittent Oil Flow:**
 - **Cause:** Partial clog in oil lines, air in the oil system, or a worm gear with minor wear causing inconsistent engagement.
 - **Solution:** Bleed air from the system if applicable. Clean all oil lines. Inspect and consider replacing the worm gear if wear is visible.
- **Excessive Oil Leakage (when not in use):**
 - **Cause:** Damaged oil pump seal, cracked oil tank, or issues with the oil pump itself. Less commonly, a worm gear issue, but worth checking for any related damage.
 - **Solution:** Inspect oil lines, seals, and the oil tank for damage. Consult a professional if the source of the leak is not apparent.

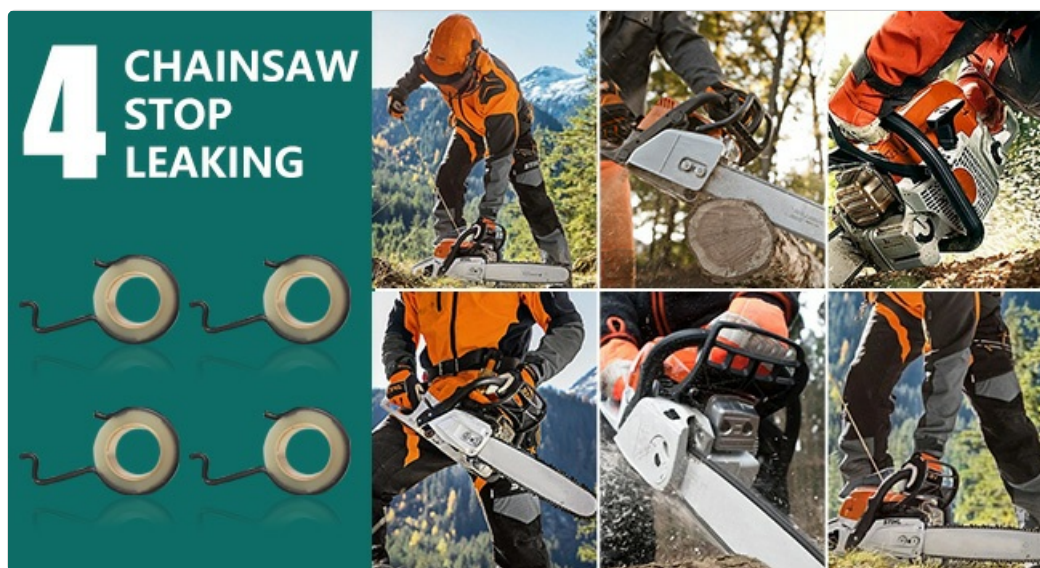


Figure 4: Visual representation of the worm gear's role in maintaining proper oiling and preventing leaks in chainsaws.

6. PRODUCT SPECIFICATIONS

Specification	Detail
Brand	FJSaDobo
Item Model Number	1123 640 7102 (OEM Cross-reference)
Item Weight	0.32 ounces
Product Dimensions	0.1 x 2 x 2.33 inches
Power Source Compatibility	Gas Powered Chainsaws
Included Components	Worm Gear Assembly (2 pieces per package)

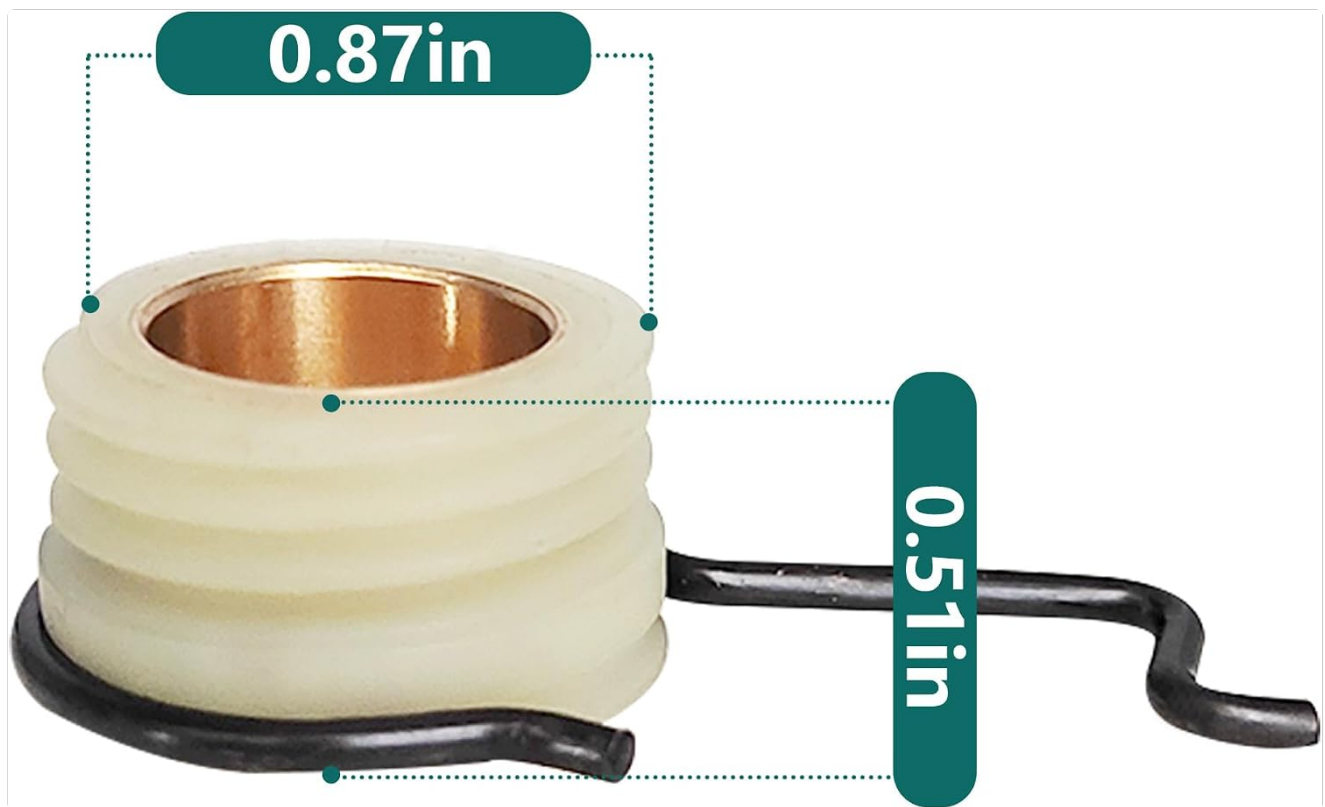


Figure 5: Detailed dimensions of the worm gear assembly, indicating a height of 0.51 inches and a diameter of 0.87 inches.

7. RELATED COMPONENTS AND GENERAL MAINTENANCE

While this manual focuses on the worm gear assembly, proper chainsaw function relies on many interconnected parts. Regular inspection and maintenance of related components are crucial.

7.1 Chainsaw Clutch and Drum Overview

The worm gear works in conjunction with the clutch drum, which is driven by the engine's crankshaft. The clutch engages the chain when the engine speed increases, transferring power for cutting. Understanding the clutch system can aid in accessing and maintaining the worm gear.

Your browser does not support the video tag.

Video 1: An overview of a chainsaw sprocket clutch assembly, showing its components and how they fit together. This video provides context for related chainsaw parts and general assembly principles.

8. WARRANTY AND SUPPORT

For specific warranty information regarding your FJSaDobo worm gear assembly, please refer to the product packaging or contact the manufacturer directly. If you require technical assistance or have questions about installation or compatibility, please reach out to FJSaDobo customer support through their official channels.

ASK A QUESTION ABOUT THIS MANUAL

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and use this page's manual context to help answer it.

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Example: How do I reset this device or fix this error?

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