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Remy 97147

Remy 97147 100% New Starter - Instruction Manual

Brand: Remy | **Model:** 97147

1. PRODUCT OVERVIEW

The Remy 97147 100% New Starter is a high-quality automotive component designed for reliable engine starting. Remy, a leading aftermarket supplier, leverages its expertise in manufacturing new starters and alternators for global automakers to produce superior new and remanufactured products. This ensures that the 97147 starter delivers optimal performance and durability.

Key Features:

- Manufactured by Remy, ensuring high quality and reliability.
- Features the latest designs and is constructed with 100% new components.
- Internal components include engineered enhancements for improved performance.
- Copper windings are rigorously tested for shorts, grounds, and output capability.
- Undergoes a 100% computer-controlled final test, along with mechanical gauging and inspection, to guarantee functionality.



Figure 1.1: Front-side view of the Remy 97147 100% New Starter, showcasing its robust construction and key components.

2. PACKAGE CONTENTS

Upon opening the package, you should find the following item:

- Remy 97147 100% New Starter (Main Component)

Please inspect the starter for any visible damage that may have occurred during shipping. If any components are missing or damaged, contact your retailer or Remy customer support immediately.

3. INSTALLATION GUIDE

Important Safety Notice: Installation of automotive electrical components can be complex and may require specialized tools and knowledge. Incorrect installation can lead to serious injury, damage to the vehicle, or component failure. It is highly recommended that installation be performed by a qualified automotive technician.

General Installation Steps (Consult Vehicle Service Manual for Specifics):

- 1. Disconnect Battery:** Always disconnect the negative (-) battery terminal first, followed by the positive (+) terminal, to prevent electrical shorts and ensure safety.
- 2. Locate and Access Old Starter:** Identify the location of the existing starter motor in your vehicle. This may require removing other components for access.
- 3. Disconnect Wiring:** Carefully disconnect all electrical connections from the old starter, noting their positions for reinstallation. This typically includes the main battery cable and the solenoid activation wire.
- 4. Remove Mounting Bolts:** Unbolt the old starter from the engine block or transmission housing. Support the starter as you remove the last bolt to prevent it from falling.
- 5. Compare Old and New Starters:** Before installing the new Remy 97147 starter, compare it side-by-side with the old unit to ensure they are identical in size, mounting points, and electrical connections.

6. **Install New Starter:** Position the new starter and secure it with the mounting bolts. Tighten bolts to the vehicle manufacturer's specified torque settings.
7. **Reconnect Wiring:** Reattach all electrical connections to the new starter, ensuring they are clean and secure.
8. **Reconnect Battery:** Reconnect the positive (+) battery terminal first, then the negative (-) terminal.
9. **Test Operation:** Attempt to start the vehicle to confirm proper operation of the new starter. Listen for unusual noises and check for any warning lights.

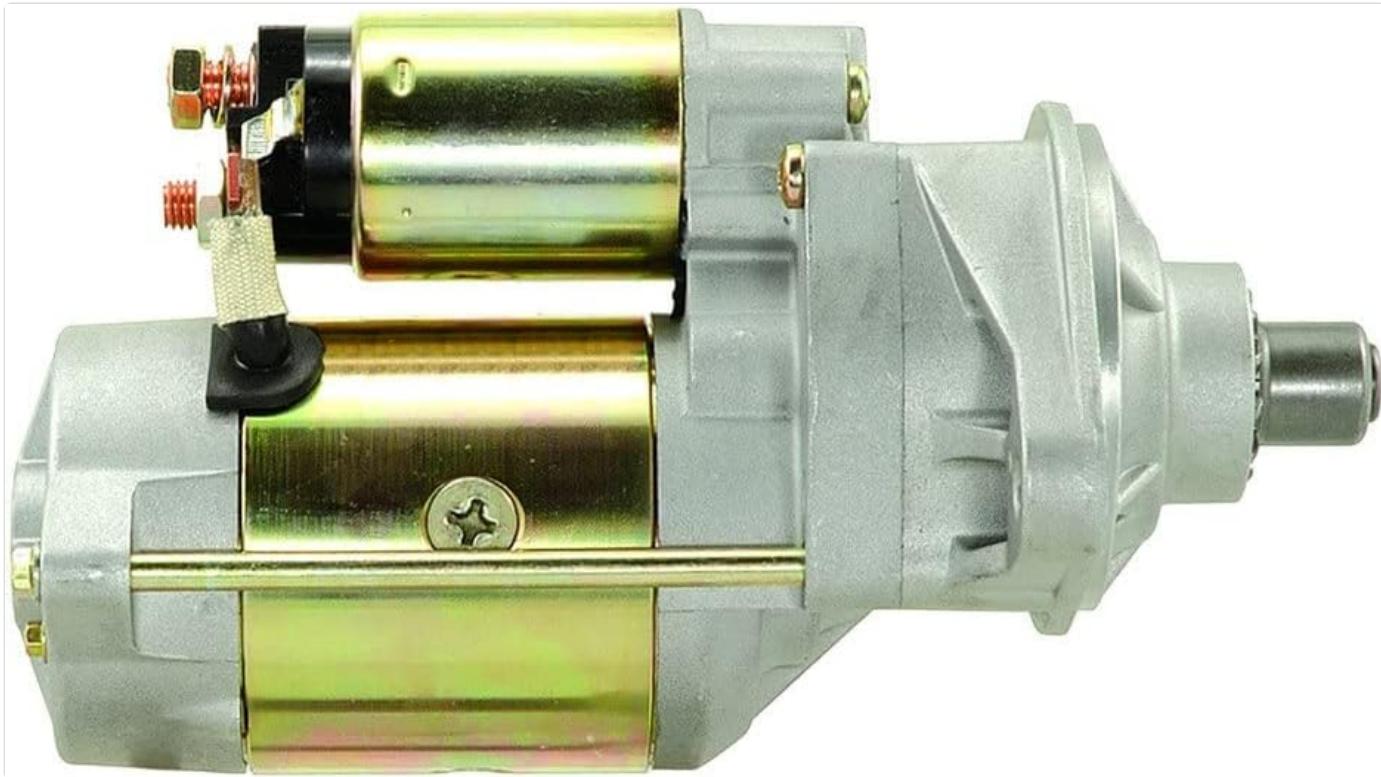


Figure 3.1: Side view of the Remy 97147 starter, showing the mounting points and electrical terminals.

4. OPERATING PRINCIPLES

The Remy 97147 starter motor is an essential component of your vehicle's starting system. When the ignition key is turned to the "START" position, electrical current flows from the battery to the starter solenoid. The solenoid then engages the starter motor's pinion gear with the engine's flywheel and simultaneously closes a high-current circuit to power the starter motor.

The starter motor, a powerful electric motor, rotates the engine's crankshaft, initiating the combustion process. Once the engine starts, the solenoid disengages the pinion gear from the flywheel to prevent damage to both the starter and the flywheel. The entire process is designed for quick and efficient engine ignition.

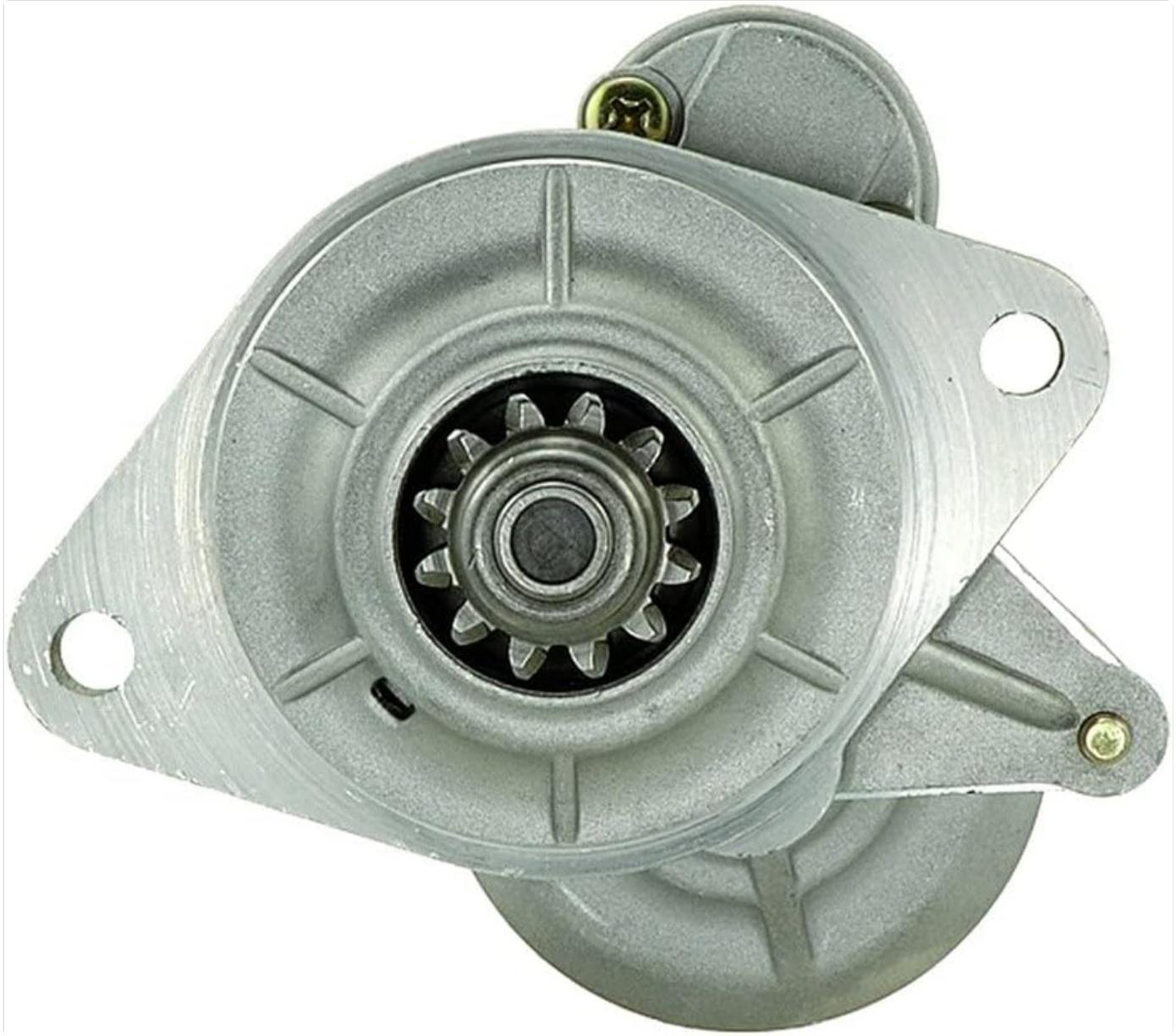


Figure 4.1: End view of the Remy 97147 starter, highlighting the pinion gear responsible for engaging the engine's flywheel.

5. MAINTENANCE

The Remy 97147 starter is designed for long-term reliability and typically requires minimal direct maintenance. However, ensuring the health of related components can significantly extend its lifespan and ensure consistent performance.

Recommended Practices:

- **Battery Health:** Ensure your vehicle's battery is in good condition, fully charged, and has clean, tight terminals. A weak battery can overwork the starter.
- **Electrical Connections:** Periodically check all electrical connections to the starter for corrosion or looseness. Clean terminals and ensure connections are secure.
- **Vehicle Electrical System:** Have your vehicle's entire electrical system, including the alternator and wiring, inspected regularly by a qualified technician.
- **Avoid Excessive Cranking:** Do not crank the engine for extended periods (more than 10-15 seconds) without allowing the starter to cool down. This can lead to overheating and damage.

6. TROUBLESHOOTING COMMON ISSUES

If you experience issues with your vehicle's starting system, consider the following common troubleshooting steps. Note that these are general guidelines, and professional diagnosis is often required.

Symptom	Possible Cause	Suggested Action
Engine does not crank or cranks slowly	Weak or dead battery, corroded battery terminals, loose battery cables, faulty starter solenoid, faulty starter motor.	Check battery charge and terminals. Ensure battery cables are clean and tight. Test battery and charging system. If battery is good, inspect starter wiring and consider professional diagnosis of starter/solenoid.
Starter clicks but engine does not crank	Low battery voltage, faulty starter solenoid, seized engine (rare), poor electrical connection to starter.	Charge or replace battery. Check all electrical connections to the starter for tightness and corrosion. If problem persists, the solenoid or starter motor may be faulty.
Grinding noise during starting	Damaged starter pinion gear, damaged flywheel teeth, misaligned starter.	Immediately stop attempting to start the vehicle to prevent further damage. This issue requires professional inspection and repair.
Starter runs but engine does not crank	Faulty starter drive (bendix) not engaging flywheel.	The starter motor itself may be functioning, but the engagement mechanism is failing. The starter likely needs replacement.



Figure 6.1: View of the Remy 97147 starter's electrical terminals, crucial for proper power connection.

7. SPECIFICATIONS

Attribute	Detail
Brand	Remy
Model Number	97147
Part Number	97147
UPC	090244971471

Attribute	Detail
GTIN	00090244971471
Item Weight	12.5 pounds
Product Dimensions (L x W x H)	13.1 x 5.7 x 6.9 inches
Wattage	1.4 KW
Amperage	20 Amps
Phase Type	Three Phase
Material	Copper
Date First Available	October 10, 2007

8. WARRANTY AND SUPPORT

Specific warranty terms for the Remy 97147 100% New Starter are provided by the manufacturer, Remy, or the authorized seller at the time of purchase. Please refer to your purchase documentation or the official Remy website for detailed warranty information, including coverage period and conditions.

Customer Support:

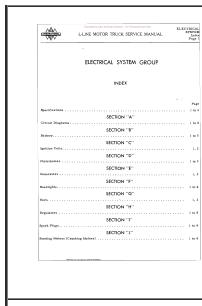
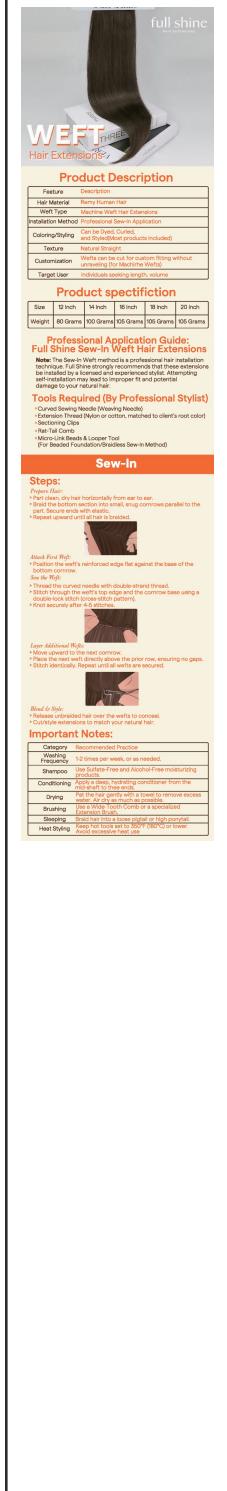
For technical assistance, installation questions, or warranty claims, please contact Remy customer support or the retailer from whom you purchased the product. Have your product model number (97147) and proof of purchase ready when contacting support.

You may also find additional resources and frequently asked questions on the official Remy website.

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Related Documents - 97147

	<p>Delco Remy Starter Motor: General Information, Installation, and Troubleshooting Guide</p> <p>Comprehensive guide to Delco Remy starter motors, covering general information, removal and installation procedures for Caterpillar C7 and MBE 900 engines, and detailed troubleshooting steps for common issues.</p>
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	<p>International L-Line Motor Truck Service Manual: Electrical System</p> <p>Comprehensive service manual detailing the electrical systems of International L-Line motor trucks, covering specifications, diagrams, and maintenance for components like generators, starters, regulators, and lighting.</p>
	<p>Full Shine Sew-In Weft Remy Human Hair Extensions: Professional Application & Care Guide</p> <p>Detailed guide for Full Shine Sew-In Weft Remy Human Hair Extensions, covering professional application techniques, required tools, and essential hair care instructions for optimal results and longevity.</p>

