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Cardone 57-1700

Cardone 57-1700 Remanufactured Water Pump User Manual

Model: **57-1700** | Brand: **Cardone**

1. Introduction

This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of your Cardone 57-1700 Remanufactured Water Pump. Please read this manual thoroughly before attempting any procedures to ensure safety and optimal performance of the product.

Product Overview

CARDONE Remanufactured Water Pumps are re-engineered, built, and tested to match Original Equipment (O.E.) performance. Each unit features new, O.E.-supplied unitized seals and application-specific bearings to ensure long-lasting, trouble-free product life. With 100% leak and hub-pull testing, CARDONE Remanufactured Water Pumps are designed for reliable operation.



Figure 1.1: Main view of the Cardone 57-1700 Remanufactured Water Pump. This image displays the overall structure of the water pump, including the housing, pulley hub, and impeller.

Key Features

- As a remanufactured Original Equipment part, this unit guarantees a perfect vehicle fit.
- O.E.-supplied NEW unitized seals followed by full leak testing and hub-pull testing ensures long-lasting, reliable trouble-free performance.
- The proper O.E. specified bearing design is installed to meet the specific radial and axial load requirements of each application, this ensures longer bearing life and reliable performance.
- Thermostat seal and mounting gasket are supplied for ease of installation (where applicable).
- Our remanufacturing process is earth-friendly, as it reduces the energy and raw material needed to make a new part by 80%.

2. Installation Guidelines

Proper installation is crucial for the longevity and performance of your water pump. It is highly recommended that

installation be performed by a qualified automotive technician. Always refer to your vehicle's specific service manual for detailed instructions and torque specifications.

Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the engine is cool before beginning work to avoid burns from hot coolant or engine components.
- Disconnect the vehicle's battery to prevent accidental starting or electrical shorts.
- Properly dispose of old coolant according to local regulations.

Installation Steps (General)

1. **Drain Coolant:** Place a suitable drain pan under the radiator and open the drain cock to completely drain the cooling system.
2. **Remove Drive Belts:** Loosen the tensioner and remove any drive belts connected to the water pump pulley.
3. **Disconnect Hoses:** Carefully disconnect all coolant hoses attached to the water pump. Be prepared for residual coolant.
4. **Remove Old Water Pump:** Unbolt the old water pump from the engine block. Note the position of all bolts and any associated gaskets.
5. **Clean Mounting Surface:** Thoroughly clean the engine block's mounting surface, removing all traces of old gasket material or sealant. A clean surface is critical for a leak-free seal.
6. **Install New Water Pump:** Apply a thin, even bead of RTV sealant (if required by your vehicle's manual) to the new gasket or directly to the pump's mounting surface. Position the new Cardone 57-1700 water pump and secure it with the bolts. Tighten bolts to the manufacturer's specified torque in the correct sequence.



Figure 2.1: Front view of the water pump, showing the pulley hub where drive belts connect. This area must be clear for proper belt alignment.

7. **Reconnect Hoses and Belts:** Reattach all coolant hoses and drive belts. Ensure hoses are clamped securely and belts are tensioned correctly.
8. **Refill Cooling System:** Fill the cooling system with the appropriate type and mixture of coolant as specified by your vehicle manufacturer.
9. **Bleed Air:** Start the engine and allow it to reach operating temperature with the heater on high. Monitor the coolant level and add more as needed to remove any trapped air from the system. This process may take some time.
10. **Inspect for Leaks:** After the engine has cooled, recheck the coolant level and inspect all connections around the water pump for any signs of leaks.



Figure 2.2: View of the water pump's impeller side. The impeller is responsible for circulating coolant through the engine's cooling system.

3. Operation and Function

The Cardone 57-1700 Remanufactured Water Pump is a critical component of your vehicle's engine cooling system. Its primary function is to circulate coolant from the radiator through the engine block and cylinder head, and then back to the radiator. This continuous flow of coolant absorbs heat from the engine and dissipates it through the radiator, preventing the engine from overheating.

Once installed, the water pump operates automatically whenever the engine is running, driven by a belt connected to the engine's crankshaft. No user intervention is required for its operation beyond ensuring the cooling system is properly filled and maintained.

4. Maintenance and Care

Regular maintenance of your vehicle's cooling system is essential for the longevity of your Cardone water pump and overall engine health.

Recommended Maintenance Practices

- **Coolant Level Check:** Regularly check the coolant level in the reservoir and radiator (when cool). Top up with the correct type of coolant as needed.
- **Coolant Condition:** Inspect the coolant for discoloration or debris. If it appears dirty or rusty, a coolant flush and refill may be necessary. Follow your vehicle manufacturer's recommended coolant flush intervals.
- **Hose Inspection:** Periodically inspect all coolant hoses for cracks, bulges, or signs of leaks. Replace any damaged hoses promptly.
- **Belt Inspection:** Check the drive belt connected to the water pump for cracks, fraying, or excessive wear. Ensure proper tension.
- **Leak Detection:** Visually inspect the water pump and surrounding areas for any signs of coolant leaks (e.g., drips, stains, or residue). Address any leaks immediately.

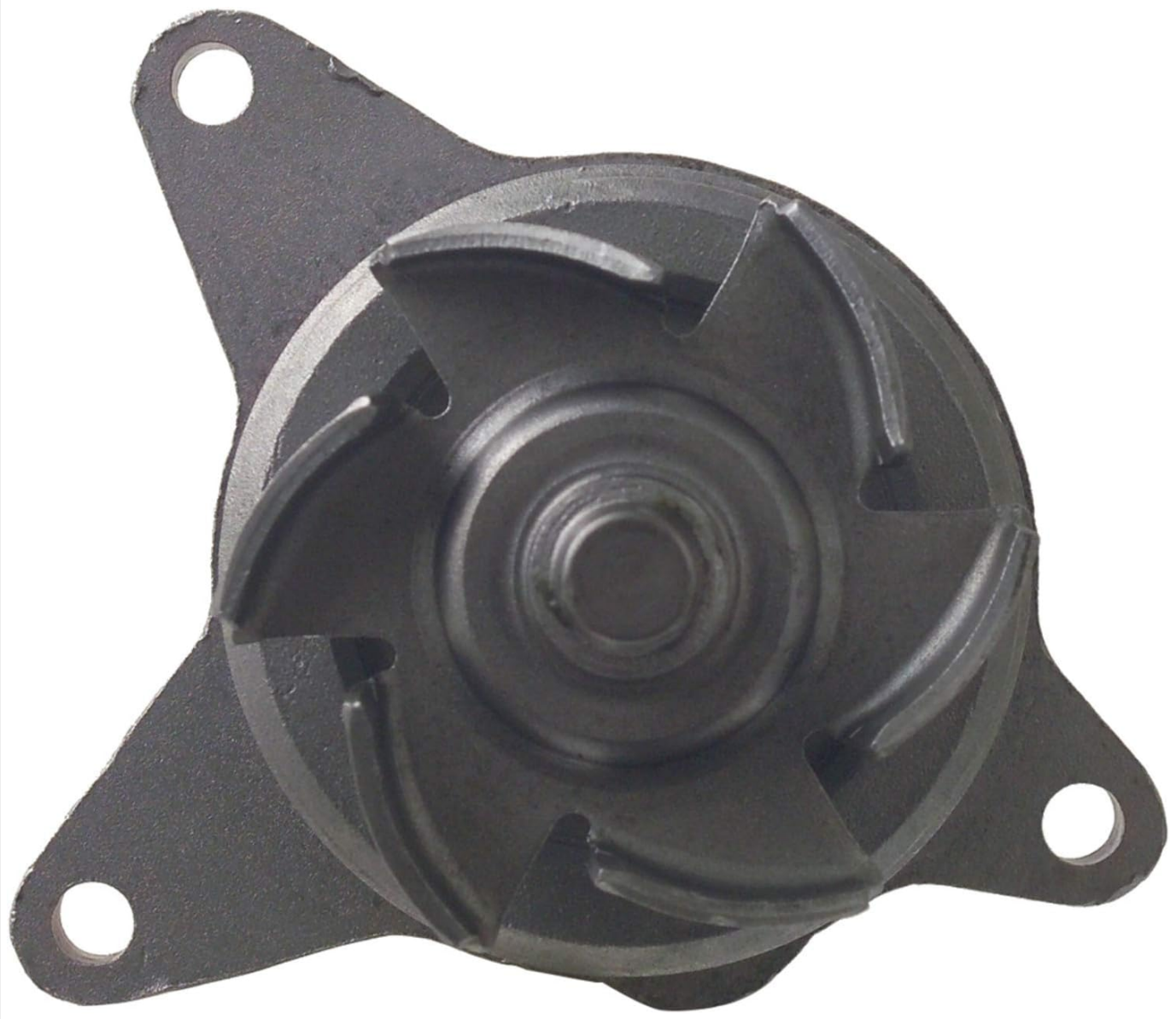


Figure 4.1: View of the water pump's mounting side, showing bolt holes and sealing surfaces. Regular inspection of this area for leaks is part of routine maintenance.

5. Troubleshooting Common Issues

If you experience issues with your vehicle's cooling system, the water pump may be a contributing factor. Here are some common symptoms and potential causes:

Symptom	Possible Cause	Action
Engine Overheating	Insufficient coolant circulation, low coolant level, faulty thermostat, clogged radiator.	Check coolant level, inspect for leaks, verify water pump operation (e.g., by checking coolant flow in radiator), consult a technician.
Coolant Leaks	Worn water pump seal, loose hose clamps, cracked hoses, damaged gasket.	Visually inspect the water pump and all connections for the source of the leak. Replace faulty components.
Noise from Water Pump Area	Worn water pump bearing, loose or worn drive belt, foreign object in pulley.	Inspect drive belt tension and condition. Listen for specific noises (e.g., grinding, squealing). If bearing noise is suspected, professional diagnosis is recommended.
Steam from Engine Bay	Severe overheating, major coolant leak.	**Immediately and safely pull over. Turn off the engine. Do NOT open the radiator cap while hot.** Allow the engine to cool completely before inspecting. Seek professional assistance.

If you are unable to diagnose or resolve an issue, it is always best to consult a certified automotive technician.

6. Product Specifications

The following specifications pertain to the Cardone 57-1700 Remanufactured Water Pump:

Specification	Detail
Brand	Cardone
Manufacturer	A1 Cardone
Model Number	57-1700
Item Weight	1.46 pounds (approx. 0.66 kg)
Product Dimensions	7.25 x 4.13 x 4.5 inches (approx. 18.4 x 10.5 x 11.4 cm)
OEM Part Numbers	93G15100, L3G215100, L3G215100A, LF9415100, LF9415100A, LF9515100A
ASIN	B001FE20NA
UPC	082617785594
First Available	October 10, 2007



Figure 6.1: Bottom view of the water pump, showing the overall casting and additional mounting points.

7. Warranty Information

For specific warranty terms and conditions pertaining to your Cardone 57-1700 Remanufactured Water Pump, please refer to the official warranty documentation provided with your purchase or visit the official Cardone website. Warranty coverage typically addresses defects in materials and workmanship under normal use and service.

8. Customer Support

If you have questions, require technical assistance, or need to report an issue with your Cardone 57-1700 Remanufactured Water Pump, please contact Cardone customer support through their official website or the contact information provided with your product packaging. When contacting support, please have your product model number (57-1700) and purchase details readily available.

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