

MAC BR3Z8501N

MAC Engine Cooling Water Pump Installation and Maintenance Manual for Ford F150 3.5L 3.7L V6 (BR3Z8501N)

Comprehensive installation, operation, and maintenance guide for the MAC Engine Cooling Water Pump (BR3Z8501N) compatible with Ford F150 3.5L 3.7L V6 and other models.

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your MAC Engine Cooling Water Pump, model BR3Z8501N. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

PRODUCT OVERVIEW

The MAC Engine Cooling Water Pump (BR3Z8501N) is a direct replacement component designed to circulate coolant through your vehicle's engine, maintaining optimal operating temperature. This OE-style pump is manufactured to meet specific fit, form, and function requirements for compatible Ford and Lincoln models.



Image: Main components of the MAC Engine Cooling Water Pump, including the pump assembly, gasket, and pulley.

Key Features:

- Direct replacement for trouble-free installation.
- Manufactured by ISO certified factories.
- Designed to meet OE specifications for fit, form, and function.

COMPATIBILITY

This water pump is compatible with the following vehicle models and engine types:

- 2015-2017 Ford Expedition 3.5L
- 2011-2017 Ford F150 3.5L, 3.7L
- 2015-2019 Ford Transit 150, 250, 350, 350HD 3.5L, 3.7L
- 2015-2017 Lincoln Navigator 3.5L
- 2016-2017 Ford Mustang 3.7L
- 2015-2018 Ford Lobo 3.5L
- 2015-2017 MV-1 3.7L

Note: Fits both Turbo and Non-Turbo engine configurations.

SETUP AND INSTALLATION

Installation of an engine water pump requires mechanical expertise and specialized tools. If you are not confident in your ability to perform this installation, it is recommended to seek professional assistance.

Required Tools and Materials:

- Socket set and wrenches
- Torque wrench
- Coolant drain pan
- New engine coolant (compatible with your vehicle)
- Gasket scraper (if needed)
- Safety glasses and gloves

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

1. Ensure the engine is cool and disconnect the battery.
2. Drain the engine coolant into a suitable container.
3. Remove any components obstructing access to the water pump (e.g., serpentine belt, air intake, shields).
4. Carefully unbolt and remove the old water pump. Note the orientation of the pulley and any associated components.
5. Clean the mounting surface thoroughly, removing all old gasket material.
6. Install the new water pump with the provided gasket, ensuring proper alignment.
7. Tighten bolts to the manufacturer's specified torque settings (refer to your vehicle's service manual).
8. Reinstall all removed components.
9. Refill the cooling system with the correct type and amount of coolant.
10. Bleed the cooling system to remove any air pockets.
11. Reconnect the battery and test for leaks.

Your browser does not support the video tag.

Video: AULINK provides a visual overview of the 125-3285 Water Pump for Ford F150 (2011-2020), showcasing the product from various angles. This video is for product identification and general reference; always consult your vehicle's specific service manual for detailed installation procedures.

Your browser does not support the video tag.

Video: VIPCAR Autoparts provides an insight into their manufacturing process, including factory operations, robotics, research and development, and quality control. This video offers a general look at the production standards for automotive parts.

OPERATING CONSIDERATIONS

Once installed, the water pump operates continuously with the engine to circulate coolant. Monitor your vehicle's temperature gauge regularly. Any unusual fluctuations in engine temperature, especially overheating, should be addressed immediately.

Initial Break-in Period:

During the initial break-in period (approximately the first 15-30 minutes of operation), it is not uncommon for a new water pump to exhibit minor weeping from the weep hole. This is typically a normal part of the seal seating process. If weeping persists beyond this period, or if significant leakage occurs, consult the troubleshooting section or a qualified mechanic.

MAINTENANCE

Proper maintenance of your cooling system is crucial for the longevity of your water pump and engine.

- **Coolant Checks:** Regularly check coolant levels and condition. Replace coolant according to your vehicle manufacturer's recommendations.
- **Belt Inspection:** Inspect the serpentine belt for wear, cracks, or proper tension. A worn or loose belt can affect water pump performance.
- **Leak Detection:** Periodically inspect the water pump and surrounding areas for any signs of coolant leaks.

TROUBLESHOOTING

If you experience issues with your water pump or cooling system, consider the following:

- **Overheating:** Check coolant level, thermostat function, radiator for blockages, and ensure proper air bleeding.
- **Coolant Leaks:** Inspect all hose connections, the water pump housing, and the weep hole. Persistent leaks from the weep hole after the break-in period may indicate a seal failure.
- **Noise:** Squealing or rattling noises from the water pump area could indicate a failing bearing. Check belt tension and other pulleys in the system.

For complex issues, consult a certified automotive technician.

SPECIFICATIONS

Feature	Detail
Brand	MAC
Model Number	BR3Z8501N
OEM Part Number	BR3Z8501N
Manufacturer Part Number	155982
Vehicle Service Type	Truck
Material	Cast iron, aluminum alloys, or high-performance thermoplastics

WARRANTY INFORMATION

The warranty for this item is stated on the product listing. For specific details regarding warranty coverage, duration, and claims process, please refer to the original product listing or contact MAC customer support directly.

WARRANTY

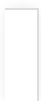
The warranty for your item is stated on the listing, you can contact us if you have any questions

Image: A graphic indicating that warranty information is available on the product listing and encourages contacting customer support for questions.







CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your MAC Engine Cooling Water Pump, please contact MAC customer service through the details provided on your purchase receipt or the official MAC Auto Parts store on Amazon.

Visit the [MAC Store](#) for more products and information.



Related Documents - BR3Z8501N

	<p>MAC 6000 Hydronic Heater Manual - Specifications, Operation, and Safety</p> <p>Official manual for the MAC 6000 Hydronic Heater. Find detailed specifications, operating instructions, warranty information, safety precautions, and trailering guidelines for MAC Inc. industrial heaters.</p>
	<p>Your Guide to Air Conditioning: Costs, Features & Selection MAC</p> <p>Learn about the costs, noise levels, types (multi-split vs. split), and best air conditioning units from leading brands like Mitsubishi, Toshiba, and Daikin. Provided by Midland Air Conditioning (MAC).</p>
	<p>Heinzman Street Rod Shop: Classic Ford Frames, Chassis & Suspension Parts Catalog</p> <p>Explore the Heinzman Street Rod Shop catalog for a comprehensive selection of parts and services for building and restoring classic Ford street rods and muscle cars, including frames, chassis, suspension, engines, and more since 1985.</p>
	<p>MindVision MV-GE500C/M Industrial Camera Datasheet and Specifications</p> <p>Explore the MindVision MV-GE500C/M, a high-definition, low-noise industrial camera with excellent performance, easy installation, and versatile applications in industrial inspection, medical treatment, scientific research, education, and security. This datasheet provides detailed technical parameters, features, mechanical specifications, and pinout definitions.</p>
	<p>EKSA Star Engine 3-in-1 Gaming Headset User Manual</p> <p>Comprehensive user manual for the EKSA Star Engine 3-in-1 Gaming Headset, detailing its features, specifications, operation, connectivity, and warranty information. Includes setup guides for PC, Mac, PlayStation, and Xbox.</p>
	<p>User Manual for F150 HD WiFi Inspection Camera</p> <p>Comprehensive user manual for the F150 HD WiFi Inspection Camera, detailing setup, operation on mobile and PC, and technical specifications. Includes instructions for connecting via WiFi, using the 'WIFI LOOK' app, and troubleshooting.</p>