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Ford M6605B302

Ford Racing M6605B302 Chrome Moly Steel Oil Pump Driver Shaft User Manual

Model: M6605B302 | **Brand:** Ford Racing

Product Overview

The Ford Racing M6605B302 is a high-strength chrome moly steel oil pump driver shaft designed for automotive engine applications. This component is critical for transmitting rotational power from the engine's distributor gear to the oil pump, ensuring proper lubrication throughout the engine. Its robust construction is intended for enhanced durability and performance in demanding conditions.



Figure 1: Ford Racing M6605B302 Chrome Moly Steel Oil Pump Driver Shaft. This image displays the long, slender metallic rod with specific end fittings designed to engage the oil pump and distributor.

Setup and Installation

Installation of the Ford Racing M6605B302 oil pump driver shaft requires specialized automotive knowledge and tools. It is strongly recommended that installation be performed by a qualified mechanic or automotive technician. Improper installation can lead to severe engine damage.

Safety Precautions

- Always disconnect the vehicle's battery before beginning any work on the engine.
- Ensure the engine is cool to the touch to prevent burns.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Refer to the vehicle's specific service manual for detailed engine disassembly and assembly procedures.

General Installation Steps (Consult Vehicle Service Manual for Specifics)

1. Safely lift and support the vehicle.
2. Drain engine oil.
3. Remove components obstructing access to the oil pump and distributor, which may include the oil pan, timing cover, or other engine accessories.
4. Carefully remove the existing oil pump driver shaft. Note its orientation.
5. Inspect the new Ford Racing M6605B302 shaft for any manufacturing defects or damage.
6. Install the new driver shaft, ensuring it properly engages with both the distributor gear and the oil pump. Verify correct alignment.
7. Reassemble all removed components according to the vehicle's service manual, paying close attention to torque specifications for fasteners.
8. Refill engine oil to the manufacturer's recommended level.
9. Start the engine and check for proper oil pressure immediately.

Operating Principles

The oil pump driver shaft is an internal engine component that operates continuously whenever the engine is running. Its primary function is to transfer rotational motion from the engine's camshaft (via the distributor gear in many applications) to the oil pump. This rotation drives the oil pump, which then circulates engine oil under pressure to lubricate moving parts, cool the engine, and clean internal components.
The chrome moly steel construction of the M6605B302 shaft provides superior strength and resistance to torsional stress and wear, which is crucial for maintaining consistent oil pressure, especially in high-performance or modified engines.

Maintenance

The Ford Racing M6605B302 oil pump driver shaft is designed for long-term durability and typically does not require routine user maintenance. Its maintenance is generally integrated into broader engine service or rebuild procedures.

Inspection Guidelines

- During any engine disassembly that provides access to the oil pump or distributor, inspect the driver shaft for signs of wear, bending, twisting, or damage to the drive ends.
- Check for any scoring or unusual wear patterns on the shaft's surface.
- If any damage or significant wear is observed, replacement of the shaft is recommended to prevent potential oil pump failure and subsequent engine damage.

Troubleshooting

Issues related to the oil pump driver shaft typically manifest as problems with engine oil pressure. Since this is an internal

component, diagnosis usually requires professional assessment.

Common Symptoms of a Failing Oil Pump Driver Shaft

- **Low Oil Pressure:** A primary indicator. This can be caused by a broken or severely worn shaft failing to drive the oil pump effectively.
- **Oil Pressure Warning Light:** Illumination of the dashboard oil pressure warning light.
- **Engine Noise:** Increased engine noise, particularly ticking or knocking sounds, due to insufficient lubrication.
- **Engine Overheating:** Oil also aids in cooling; low oil pressure can contribute to overheating.

Action in Case of Suspected Failure

If any of these symptoms occur, immediately stop the engine to prevent further damage. Do not attempt to operate the vehicle. Contact a qualified automotive technician for diagnosis and repair. Replacement of the oil pump driver shaft and potentially the oil pump itself may be necessary.

Specifications

Part Number	M6605B302
Manufacturer	Ford Racing
Material	Chrome Moly Steel
Item Weight	2.4 ounces
Package Dimensions	9.75 L x 1 H x 1 W (inches)
Country of Origin	China
ASIN	B000CNHSOG

Warranty Information

Specific warranty details for the Ford Racing M6605B302 Chrome Moly Steel Oil Pump Driver Shaft are not provided in this manual. For information regarding product warranty, please refer to the official Ford Racing website or contact an authorized Ford Racing dealer. Keep your proof of purchase for any warranty claims.

Support and Contact

For technical assistance, installation guidance, or product inquiries, please contact Ford Racing customer support or visit their official website. It is recommended to have your product model number (M6605B302) and any relevant vehicle information available when seeking support.
Official Website: Ford Performance Parts

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