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Dorman 300-006

Dorman 300-006 Power Steering Pump Pulley

User Manual and Installation Guide

Brand: Dorman | Model: 300-006

1. PRODUCT OVERVIEW

The Dorman 300-006 Power Steering Pump Pulley is engineered to directly match the fit and function of the original pulley on specified vehicle applications. Constructed from quality materials, this pulley is designed for reliable performance and long-lasting durability, ensuring proper power steering system operation.



Figure 1: Front view of the Dorman 300-006 Power Steering Pump Pulley, showcasing its multi-rib design and central mounting hub.

Key Features:

- **Direct Replacement:** Designed to match the original equipment pulley's fit and function.
- **Restores Functionality:** Provides a reliable solution for pulleys damaged by debris or during service.
- **Durable Construction:** Manufactured from quality materials for extended service life.
- **Trusted Quality:** Backed by Dorman's extensive automotive experience.
- **Vehicle Specific Fit:** Compatible with select Ford and Lincoln models (refer to specifications for details).

2. SAFETY INFORMATION

Always prioritize safety when working on automotive systems. Failure to follow safety precautions can result in serious injury or damage to the vehicle.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands before beginning any work.
- Disconnect the vehicle's battery to prevent accidental electrical discharge.
- Allow the engine and power steering system to cool completely before handling components.
- Refer to your vehicle's service manual for specific procedures and torque specifications.
- Keep all tools and parts organized to prevent hazards.

3. INSTALLATION INSTRUCTIONS

This section provides a general guide for the removal of the old pulley and installation of the new Dorman 300-006 Power Steering Pump Pulley. Specific vehicle procedures may vary. It is highly recommended to consult your vehicle's service manual for detailed instructions.

Important Note: A quality power steering pulley removal and installation tool kit is essential for this procedure. Attempting to use standard bolts, washers, and nuts often provided with remanufactured pumps may be insufficient and can cause damage.

3.1. Tools Required

- Power Steering Pulley Removal and Installation Tool Kit
- Wrenches (appropriate sizes for tool kit)
- Bench Vise
- Safety Glasses
- Gloves

3.2. Removal of Original Pulley

1. Ensure all necessary tools and parts are readily available.
2. Mount the power steering pump loosely in a bench vise. **Do not clamp tightly on the body of the power steering pump**, as this can damage the internal precision gears.
3. Select the appropriate pieces from your pulley removal tool kit based on your specific application.
4. Note the exact position of the original pulley on the pump shaft before removal. This will help ensure the new pulley is installed to the correct depth.
5. Assemble the removal tool onto the pulley.
6. Remove the pulley by turning the hex on the threaded shaft of the removal tool clockwise. Continue turning until the pulley is fully removed from the pump shaft.

3.3. Installation of New Pulley

1. Select the appropriate pieces from your pulley installation tool kit based on your specific application.
2. Set the new Dorman 300-006 pulley onto the pump shaft with the hub facing up.
3. Assemble the installation tool.
4. Thread the installation tool into the pump shaft.
5. Turn the installation nut clockwise while simultaneously rotating the threaded shaft counter-clockwise.
6. Continue this process until the new pulley is seated to the same depth as the original pulley. **Caution:** It is possible to install the pulley too far. Check your progress several times during the installation process to prevent over-pressing the pulley onto the shaft.
7. Once the pulley is seated to the proper depth, remove the installation tool from the pump and pulley assembly.

Your browser does not support the video tag.

Video 1: Detailed demonstration of power steering pulley removal and installation using a specialized tool kit. This video provides visual guidance for the steps outlined above.

4. OPERATION

After successful installation, the Dorman 300-006 Power Steering Pump Pulley facilitates the transfer of power

from the engine's accessory drive belt to the power steering pump. This ensures the pump operates correctly, providing hydraulic pressure for assisted steering. Proper operation is indicated by smooth and responsive steering, without unusual noises or excessive effort.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your power steering system and its components.

- Periodically inspect the power steering belt for signs of wear, cracking, or fraying. Replace as needed.
- Check the power steering fluid level and condition regularly. Top off or replace fluid according to your vehicle manufacturer's recommendations.
- Listen for any unusual noises (e.g., squealing, grinding) coming from the power steering pump or pulley area, which could indicate a problem.
- Inspect the pulley for any signs of damage, wobbling, or misalignment.
- Keep the engine bay clean to prevent dirt and debris from accumulating on the pulley and belt.

6. TROUBLESHOOTING

If you experience issues after installing the Dorman 300-006 Power Steering Pump Pulley, consider the following common troubleshooting steps:

- **Squealing Noise:** This often indicates a loose or worn serpentine belt. Check belt tension and condition. It could also be a misaligned pulley.
- **Hard Steering:** Check power steering fluid level. Inspect for leaks in the power steering system. Ensure the belt is properly tensioned and not slipping.
- **Wobbling Pulley:** Re-check the pulley installation depth. Ensure the pulley is fully seated and the installation tool was used correctly. A wobbling pulley can indicate improper installation or a damaged pump shaft.
- **Unusual Grinding/Whining:** This may point to an issue with the power steering pump itself, or a bearing within the pulley. Professional diagnosis may be required.

If troubleshooting steps do not resolve the issue, it is recommended to consult a certified automotive technician.

7. SPECIFICATIONS

Attribute	Value
Manufacturer	Dorman Products
Brand	Dorman
Model	300-006
Item Weight	1.18 pounds
Product Dimensions	7.4 x 7 x 2.8 inches

OEM Part Number	3P27137; 2L3Z-3A733-AB; 5L3Z3A733A; XL3Z3A733AA
Exterior	Machined
Compatible Vehicles	Ford E-150 Econoline Club Wagon (1997-2000), Ford E-150 Econoline (1997-2000), Ford E-250 Econoline (1997-2001), Ford E-350 Club Wagon (2004-2005), Ford E-350 Econoline Club Wagon (1997-2000), Ford E-350 Econoline (1997-1998), Ford E-350 Super Duty (1999-2010), Ford E-450 Econoline Super Duty Stripped (2000), Ford E-450 Econoline Super Duty (2000), Ford E-450 Super Duty (2004-2008), Ford Econoline Super Duty (1997-1999), Ford Excursion (2000-2005), Ford Expedition (1997-2002), Ford F-150 Heritage (2004), Ford F-150 (1997-2004), Ford F-250 HD (1997), Ford F-250 Super Duty (1999-2008), Ford F-250 (1997-1999), Ford F-350 Super Duty (1999-2008), Ford F-450 Super Duty (1999-2008), Ford F-550 Super Duty (1999-2007), Ford Lobo (2000-2004), Lincoln Navigator (1998-2002)

8. WARRANTY AND SUPPORT

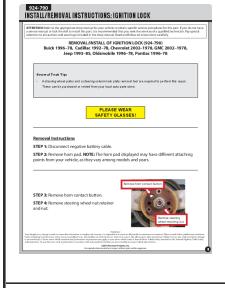
Dorman Products are designed for durability and reliable performance. For specific warranty information regarding your Dorman 300-006 Power Steering Pump Pulley, please refer to the product packaging or contact Dorman customer support directly.

For technical assistance, installation inquiries, or warranty claims, please contact Dorman Products customer service:

- **Website:** www.dormanproducts.com
- **Phone:** Refer to the Dorman website for current contact numbers.

Related Documents - 300-006

	<p>Dorman 924-724 Ignition Lock Cylinder Installation and Removal Instructions</p> <p>Step-by-step guide for the removal and installation of the Dorman 924-724 Ignition Lock Cylinder, compatible with select Ford, Lincoln, Mazda, and Mercury vehicles. Includes safety precautions and technical assistance information.</p>

	<p>Dorman 917-504 Exhaust Manifold Clamp Repair Kit Instructions</p> <p>Detailed instructions for installing the Dorman 917-504 exhaust manifold clamp repair kit. Includes safety guidelines, step-by-step procedures, and technical support contact information.</p>
	<p>Dorman 601-037 Steering Column Lock Actuator Programming and Verification Guide</p> <p>Detailed instructions for programming and verifying the Dorman 601-037 Steering Column Lock Actuator, including safety precautions and troubleshooting tips.</p>
	<p>Dorman 924-790 Ignition Lock Cylinder Installation and Removal Guide</p> <p>Step-by-step instructions for installing and removing the Dorman 924-790 Ignition Lock Cylinder. This guide covers compatible Buick, Cadillac, Chevrolet, GMC, Jeep, Oldsmobile, and Pontiac models, providing detailed procedures, technical tips, and safety precautions.</p>
	<p>Dorman 742-270 Window Lift Motor Installation and Removal Instructions for Ford Windstar (1995-2003)</p> <p>Detailed guide for the removal and installation of the Dorman 742-270 window lift motor on Ford Windstar models from 1995 to 2003. Includes tools, tips, and step-by-step procedures.</p>