Manuals+

Q & A | Deep Search | Upload

manuals.plus /

- LEXUS /
- > Lexus 44311-22091 Power Steering Pump Pulley User Manual

LEXUS 44311-22091

Lexus 44311-22091 Power Steering Pump Pulley User Manual

Genuine OEM Replacement Part

1. PRODUCT OVERVIEW

The Lexus 44311-22091 Power Steering Pump Pulley is a genuine OEM replacement component designed for specific Lexus vehicles. This pulley is an integral part of the power steering system, responsible for transferring rotational energy from the engine's serpentine belt to the power steering pump. This action enables the pump to generate hydraulic pressure, assisting the driver in steering the vehicle with ease.



Image: A black power steering pump pulley with multiple grooves for the serpentine belt and a central hub for mounting. This component is crucial for the proper functioning of the vehicle's power steering system.

2. Specifications

Brand	LEXUS
Item Weight	1.37 pounds
Package Dimensions	6.18 x 6.14 x 1.65 inches
Manufacturer Part Number	44311-22091
OEM Part Number	44311-22091

ASIN	B00KWDP3BQ
Date First Available	June 10, 2014

3. Installation / Setup

Installation of the power steering pump pulley typically involves specialized tools and knowledge of automotive systems. It is highly recommended that this component be installed by a certified automotive technician to ensure proper fitment and function, and to prevent damage to the power steering system or other engine components.

General Installation Steps (for reference only):

- 1. Ensure the vehicle is safely lifted and supported.
- 2. Disconnect the battery to prevent accidental starting.
- 3. Relieve tension from the serpentine belt and remove it from the power steering pump pulley.
- 4. Use a specialized pulley puller tool to carefully remove the old pulley from the power steering pump shaft.
- 5. Clean the pump shaft and surrounding area.
- 6. Align the new pulley with the pump shaft and use a specialized pulley installer tool to press the new pulley onto the shaft until it is fully seated. Do not hammer the pulley on, as this can damage the pump.
- 7. Reinstall the serpentine belt and ensure proper tension.
- 8. Reconnect the battery.
- 9. Start the engine and check for proper power steering operation and any unusual noises.

Warning: Improper installation can lead to severe damage to the power steering pump, belt, or other engine components, and may result in loss of steering control. Always consult a professional.

4. OPERATION

Once correctly installed, the power steering pump pulley operates continuously whenever the engine is running. It works in conjunction with the serpentine belt system to drive the power steering pump. The pump then pressurizes hydraulic fluid, which is directed to the steering gear to reduce the effort required to turn the steering wheel. The pulley's grooves are designed to maintain optimal grip with the serpentine belt, ensuring efficient power transfer without slippage.

5. MAINTENANCE

The power steering pump pulley itself requires minimal direct maintenance, as it is a passive component. However, its longevity and proper function are dependent on the overall health of the serpentine belt system and the power steering pump.

Recommended Maintenance Practices:

- **Regular Belt Inspection:** Periodically inspect the serpentine belt for cracks, fraying, or excessive wear. A worn belt can slip on the pulley, leading to reduced power steering assistance or premature pulley wear.
- **Belt Tension Check:** Ensure the serpentine belt maintains proper tension as specified by the vehicle manufacturer. Incorrect tension can cause the belt to slip or put undue stress on the pulley and pump bearings.
- Listen for Noises: Pay attention to any unusual squealing, grinding, or whining noises coming from the power steering area. These could indicate a worn pulley bearing, a failing power steering pump, or a loose/worn belt.
- Fluid Leaks: Check for power steering fluid leaks around the pump. Leaks can indicate a failing pump, which might indirectly affect the pulley's operation or lifespan.

6. TROUBLESHOOTING

Issues related to the power steering pump pulley are often symptoms of problems with the power steering pump or the serpentine belt system.

Common Issues and Potential Causes:

- **Squealing Noise:** This is often caused by a loose or worn serpentine belt slipping on the pulley. It can also indicate a misaligned pulley or a failing bearing within the power steering pump.
- **Difficulty Steering:** If the steering becomes stiff or difficult, especially at low speeds, it could be due to a slipping belt (caused by a worn pulley or belt itself), a failing power steering pump, or low power steering fluid.
- **Wobbling Pulley:** A visible wobble in the pulley while the engine is running suggests a damaged pulley, a bent pump shaft, or a failing pump bearing. This requires immediate attention.
- Belt Shredding/Coming Off: This can be a sign of a severely misaligned pulley, a damaged pulley flange, or a
 worn-out belt tensioner.

Note: For any significant issues, it is recommended to have the vehicle inspected by a qualified mechanic to accurately diagnose and repair the problem.

7. WARRANTY INFORMATION

Specific warranty details for this genuine OEM part are typically provided by the authorized Lexus parts distributor or the point of purchase. Please retain your proof of purchase for any warranty claims. For detailed information regarding coverage, duration, and terms, refer to the documentation provided at the time of purchase or contact an authorized Lexus dealership or parts supplier.

8. SUPPORT

For technical support, installation guidance, or inquiries regarding the Lexus 44311-22091 Power Steering Pump Pulley, please contact your authorized Lexus dealership or a certified automotive service center. They can provide expert assistance and ensure the correct application and function of this genuine part.

© 2024 Lexus. All rights reserved. This manual is for informational purposes only.

Related Documents - 44311-22091



Lexus CES (2018-2022) Electric Tailgate Lift Installation Manual | 8-ETTY-5111-01-00

Comprehensive installation guide for the 8-ETTY-5111-01-00 electric tailgate lift system for Lexus CES models (2018-2022). Includes parts list, step-by-step instructions, and operational details.



Lexus Technology Quick Guide: Features, Connectivity, and Safety Systems

Explore the advanced technology in your Lexus with this quick guide. Learn about Bluetooth, Safety System+, Enform, Navigation, Remote, Apple CarPlay, Android Auto, Alexa, Google Assistant, Voice Command, Wi-Fi, and more.

