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Continental 49106

Continental 49106 Accu-Drive Pulley User Manual

Model: 49106 | Brand: Continental

1. Introduction

The Continental 49106 Accu-Drive Pulley is engineered to meet or exceed OEM specifications, providing reliable performance for your vehicle's accessory drive system. This manual provides essential information regarding the installation, operation, and maintenance of your new pulley to ensure optimal function and longevity.
This pulley is designed to increase drive efficiency, ensure drive components do not snag obstructions, maintain correct belt and chain drive tension, and reduce belt and chain whip on long center drives.

2. Product Features

- Leading Manufacturer Of High-Quality Products
- International Renown For Our Diverse Range Of Award-Winning Products
- Designed With The User In Mind
- Proven And Tested For Durability And Function In Real-World Conditions
- Meeting Or Exceeding All Required And Standardized Testing
- Increases drive efficiency
- Ensure drive components do not snag obstructions
- Maintains correct belt and chain drive tension
- Reduces belt and chain whip on long center drives

3. Installation Guide

Proper installation is crucial for the performance and longevity of your Accu-Drive Pulley. If you are unsure about any step, it is recommended to consult a qualified automotive technician.

Safety Precautions:

- Always disconnect the vehicle's battery before beginning any work.
- Ensure the engine is cool to the touch.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Refer to your vehicle's specific service manual for detailed instructions and torque specifications.

Installation Steps:

1. **Prepare the Vehicle:** Park the vehicle on a level surface and engage the parking brake. Disconnect the negative terminal of the battery.
2. **Access the Pulley:** Locate the existing idler pulley. Depending on your vehicle model, this may require removing other components for access.
3. **Relieve Belt Tension:** Use a serpentine belt tensioner tool or appropriate wrench to relieve tension on the serpentine belt. Carefully remove the belt from the pulley.
4. **Remove Old Pulley:** Unbolt and remove the old idler pulley. Note the orientation and any washers or spacers.
5. **Inspect Mounting Surface:** Clean the mounting surface and inspect for any damage or debris.
6. **Install New Pulley:** Position the Continental 49106 Accu-Drive Pulley onto the mounting bracket. Ensure it is seated correctly and all components (like bolts and spacers) are in their proper place.
7. **Tighten Fasteners:** Hand-tighten the pulley bolt, then use a torque wrench to tighten it to the vehicle manufacturer's specified torque. *Do not overtighten.*
8. **Reinstall Belt:** Route the serpentine belt back onto all pulleys according to the vehicle's belt routing diagram. Ensure the belt is properly seated in all grooves.
9. **Restore Tension:** Release the tensioner slowly to apply tension to the belt. Double-check that the belt is correctly routed and tensioned.
10. **Final Checks:** Reconnect the battery. Start the engine and observe the belt and pulley for proper operation, ensuring there are no unusual noises or wobbles.



Figure 3.1: Front view of the Continental 49106 Accu-Drive Pulley. This image displays the smooth black surface of the pulley and the central bearing with a blue seal, indicating its robust construction.



Figure 3.2: Side view of the Continental 49106 Accu-Drive Pulley. This image highlights the ribbed surface designed for optimal belt engagement and the visible central bearing.



Figure 3.3: Angled view of the Continental 49106 Accu-Drive Pulley. This perspective further illustrates the ribbed design for belt traction and the central bearing.



Figure 3.4: Close-up view of the Continental 49106 Accu-Drive Pulley. This image provides a detailed look at the ribbed surface and the precision of the central bearing.

4. Operation

The Continental 49106 Accu-Drive Pulley functions as an idler pulley within your vehicle's serpentine belt system. Its primary role is to guide the serpentine belt, ensuring proper routing and maintaining consistent tension across all accessory components (such as the alternator, power steering pump, and air conditioning compressor).
A properly functioning idler pulley allows the belt to run smoothly, reducing friction and wear on the belt and other components. It also helps to prevent belt slippage, which can lead to reduced efficiency of the accessories and potential damage.

5. Maintenance

Regular inspection of your Accu-Drive Pulley can help identify potential issues before they lead to more significant problems. While the pulley is designed for durability, periodic checks are recommended.

Inspection Schedule:

- Inspect the pulley during routine vehicle maintenance, such as oil changes or tire rotations.
- Check immediately if you notice any unusual noises (squealing, grinding, chirping) coming from the belt system.

What to Look For:

- **Noise:** Listen for any squealing, grinding, or chirping sounds, especially when the engine is running. This can indicate a worn bearing.
- **Wobble:** With the engine off and the belt removed, gently try to wobble the pulley. Any significant play or looseness indicates a worn bearing or mounting issue.
- **Smooth Rotation:** Spin the pulley by hand (with the belt removed). It should spin freely and smoothly without excessive resistance or gritty feelings. A stiff or rough-spinning pulley suggests bearing issues.
- **Cracks or Damage:** Visually inspect the pulley surface for any cracks, chips, or excessive wear.
- **Belt Alignment:** Ensure the pulley is aligned correctly with other components in the belt system. Misalignment can cause premature belt wear and noise.

If any of these issues are observed, it is recommended to replace the pulley to prevent further damage to the serpentine belt system.

6. Troubleshooting

This section addresses common issues that may arise with idler pulleys and provides general guidance for diagnosis.

Problem	Possible Cause	Solution
Squealing or Chirping Noise	Worn or failing pulley bearing; misaligned pulley; worn serpentine belt.	Inspect pulley for wobble and smooth rotation. Replace pulley if bearing is worn. Check belt alignment and condition; replace belt if necessary.
Grinding or Growling Noise	Severely worn or seized pulley bearing.	Immediately replace the pulley. Continued operation can cause further damage.
Pulley feels stiff or rough when spun by hand	Bearing is dry, contaminated, or failing.	Replace the pulley. A stiff pulley increases engine load and can lead to premature belt wear.
Pulley does not fit correctly	Incorrect part for vehicle application; manufacturing variation.	Verify the part number against your vehicle's specifications. Ensure all spacers and mounting hardware are correctly used. If still an issue, contact the supplier or manufacturer.

7. Specifications

Attribute	Value
Manufacturer	Continental ContiTech
Brand	Continental
Model	Idler Pulley
Item Weight	12 ounces
Product Dimensions	4 x 4 x 1 inches
Item Model Number	49106
Exterior	Machined
Manufacturer Part Number	49106
ASIN	B000JZDK4Y
Date First Available	October 10, 2007

8. What's in the Box

- 1 x Continental 49106 Accu-Drive Pulley

9. Warranty and Support

For information regarding warranty coverage or technical support for your Continental 49106 Accu-Drive Pulley, please refer to the official Continental website or contact their customer service department. Keep your purchase receipt as proof

of purchase.
You can visit the Continental Store on Amazon for more product information and contact options.

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