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Gates 9555

Gates 9555 V-Belt Instruction Manual

Model: 9555 | Brand: Gates

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Gates 9555 V-Belt. Designed for vehicle-specific applications, this V-belt ensures reliable power transmission within your automotive system. Please read these instructions carefully before installation and retain this manual for future reference.

2. PRODUCT OVERVIEW

The Gates 9555 V-Belt is a high-quality automotive replacement part manufactured from durable rubber. It is engineered for specific vehicle applications, ensuring optimal fit and performance. Key features include:

- **Fit Type:** Vehicle Specific, ensuring precise compatibility.
- **Material:** Constructed from robust rubber for longevity and flexibility.
- **Component:** Each package includes one V-belt.
- **OEM Equivalent:** Corresponds to OEM part number D3NN10C318C and others.





Figure 2.1: A full view of the Gates 9555 V-Belt, showcasing its ribbed design and overall structure.

3. SETUP AND INSTALLATION

Proper installation is crucial for the performance and lifespan of your V-belt. Due to the vehicle-specific nature of this product and the complexities of automotive systems, it is highly recommended that installation be performed by a qualified mechanic or in strict accordance with your vehicle's service manual.

General Installation Guidelines:

1. **Safety First:** Ensure the vehicle's engine is off and cool. Disconnect the battery to prevent accidental starting.
2. **Identify Belt Path:** Carefully note the routing of the old belt before removal. It is often helpful to draw a diagram or take a photograph.
3. **Relieve Tension:** Locate the tensioner pulley and use the appropriate tool to relieve tension on the old belt.
4. **Remove Old Belt:** Once tension is relieved, carefully remove the old belt from all pulleys.
5. **Inspect Pulleys:** Check all pulleys for wear, damage, or misalignment. Replace any faulty components.
6. **Install New Belt:** Route the new Gates 9555 V-Belt according to the diagram or photograph taken earlier. Ensure the belt is seated correctly in all pulley grooves.
7. **Apply Tension:** Release the tensioner pulley to apply tension to the new belt. Verify that the belt is properly tensioned according to your vehicle's specifications (refer to your vehicle's service manual for exact tensioning procedures).
8. **Final Check:** Manually rotate the engine (if possible and safe) to ensure the belt is correctly seated and moves freely without obstruction.
9. **Test Run:** Reconnect the battery and start the engine. Observe the belt for any unusual noises, slipping, or misalignment.

Note: Incorrect tension can lead to premature belt wear, noise, or component damage. Always follow manufacturer specifications for belt tension.

4. OPERATING CONSIDERATIONS

Once installed, the Gates 9555 V-Belt operates as an integral part of your vehicle's accessory drive system. While designed for durability, certain operating conditions can affect its lifespan:

- **Avoid Overloading:** Do not subject the belt to loads exceeding the vehicle manufacturer's specifications.
- **Temperature Extremes:** While designed for automotive environments, prolonged exposure to extreme temperatures can impact belt material over time.
- **Contaminants:** Keep the belt free from oil, grease, coolant, and other automotive fluids, as these can degrade the rubber material.

5. MAINTENANCE

Regular inspection and maintenance are essential to maximize the lifespan and ensure the reliable performance of your Gates 9555 V-Belt.

Inspection Schedule:

- Inspect the belt at every oil change or at least every 10,000 to 15,000 kilometers (6,000 to 9,000 miles), or as recommended by your vehicle manufacturer.

What to Look For During Inspection:

- **Cracks or Fraying:** Check for any visible cracks, splits, or fraying along the belt's surface and edges.
- **Glazing or Hardening:** A shiny, glazed appearance or a hard, brittle feel indicates wear and reduced flexibility.
- **Missing Ribs or Chunks:** Any missing material from the ribbed underside is a sign of severe wear.

- **Contamination:** Look for oil, grease, or coolant saturation, which can degrade the rubber material.
- **Proper Tension:** Ensure the belt has the correct tension. A loose belt can slip, while an overly tight belt can strain bearings.
- **Pulley Alignment:** Verify that all pulleys are properly aligned. Misalignment causes uneven wear.



Figure 5.1: A detailed view of the Gates 9555 V-Belt's cross-section, highlighting the internal construction and ribbed underside.

Replacement:

Replace the V-belt immediately if any signs of significant wear or damage are observed. Refer to your vehicle's service manual for recommended replacement intervals, which typically range from 60,000 to 100,000 kilometers (37,000 to 62,000 miles), or sooner depending on operating conditions.

6. TROUBLESHOOTING

Symptom	Possible Cause	Solution
Squealing Noise	Loose belt, worn belt, contaminated belt, misaligned pulleys.	Check and adjust tension. Inspect for wear and replace if necessary. Clean belt and pulleys. Check pulley alignment.
Belt Slipping	Insufficient tension, worn belt, glazed belt, oil/grease contamination.	Adjust tension to specification. Replace worn or glazed belt. Clean off contaminants.
Premature Belt Wear (Cracking, Fraying)	Incorrect tension (too tight or too loose), misaligned pulleys, worn pulleys, exposure to contaminants, excessive heat.	Verify and correct belt tension. Check and correct pulley alignment. Inspect and replace worn pulleys. Protect belt from fluids. Ensure proper engine cooling.
Belt Comes Off Pulley	Severe misalignment, worn tensioner, incorrect belt size.	Check and correct pulley alignment. Inspect and replace tensioner. Ensure correct belt part number for vehicle.

If troubleshooting steps do not resolve the issue, consult a professional mechanic.

7. SPECIFICATIONS

Brand	Gates
Model Number	9555
Manufacturer Part Number	9555
OEM Part Numbers	794908, 8003836, 967138, 968645R2, D3NN10C318C
Material	Rubber
Belt Style	V Belt
Fit Type	Vehicle Specific
Compatible Devices	Car
Item Weight	136 g
Package Dimensions	60.96 L x 3.81 H x 19.05 W (centimeters)
Colour	Regular
UPC	072053312409
ASIN	B000C2YBEM

8. WARRANTY AND SUPPORT

For information regarding the warranty of your Gates 9555 V-Belt, please refer to the warranty documentation provided with your purchase or contact Gates customer support directly. You can typically find contact information on the official Gates website or through your product retailer.

For technical assistance or further inquiries, please visit the official Gates website or contact their customer service department.