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› Dorman 624-997 Automatic Transmission Oil Cooler Hose Assembly Instruction Manual

Dorman 624-997

Dorman 624-997 Automatic Transmission Oil Cooler Hose Assembly

Model: **624-997** | Brand: **Dorman**

1. INTRODUCTION

This manual provides essential information for the Dorman 624-997 Automatic Transmission Oil Cooler Hose Assembly. This component is engineered as a direct replacement for the original equipment assembly on specified vehicles, ensuring proper transmission cooling and reliable performance. It is designed to address issues such as leaking or damaged lines caused by corrosion, collision, vibration, or fitting damage.

The assembly is constructed from quality materials to ensure durability and a long service life, backed by Dorman's extensive automotive experience.

2. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged. The Dorman 624-997 Automatic Transmission Oil Cooler Hose Assembly includes:

- 1 x Automatic Transmission Oil Cooler Hose Assembly

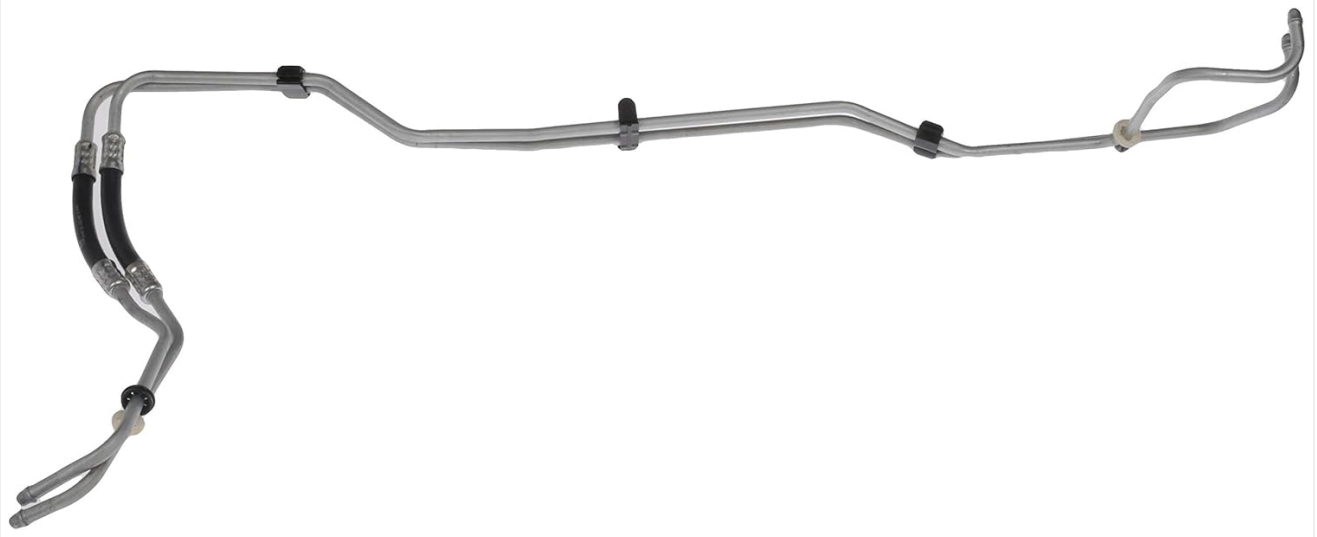


Figure 2.1: The Dorman 624-997 Automatic Transmission Oil Cooler Hose Assembly. This image displays the complete hose assembly, highlighting its form and connections.

3. VEHICLE COMPATIBILITY

This automatic transmission oil cooler hose assembly is compatible with select Jeep models. It is crucial to confirm fitment for your specific vehicle before installation.

Compatible Vehicles:

- **Jeep Wrangler:** 2007, 2008, 2009, 2010, 2011

For precise fitment, it is recommended to use a vehicle fitment tool or consult your vehicle's service manual.

4. INSTALLATION GUIDELINES

Installation of the automatic transmission oil cooler hose assembly requires mechanical knowledge and appropriate tools. If you are not confident in performing this installation, it is highly recommended to seek assistance from a qualified automotive technician.

Safety Precautions:

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands or a lift before working underneath.
- Allow the engine and transmission to cool down completely before beginning work to prevent burns from hot fluids or components.
- Disconnect the vehicle's battery to prevent accidental electrical shorts.
- Be prepared for fluid spills. Have a drain pan and absorbent materials ready.

General Installation Steps:

1. **Preparation:** Park the vehicle on a level surface. Place a drain pan beneath the transmission cooler lines to catch any draining fluid.
2. **Locate Old Assembly:** Identify the existing automatic transmission oil cooler hose assembly.
3. **Remove Old Assembly:** Carefully disconnect the old hose assembly from the transmission and the cooler. Be mindful of any retaining clips or fasteners. Dispose of the old assembly and fluid responsibly.
4. **Inspect Connections:** Before installing the new assembly, inspect the mating surfaces and connections on the transmission and cooler for any debris, corrosion, or damage. Clean as necessary.
5. **Install New Assembly:** Route the new Dorman 624-997 assembly in the same manner as the original. Connect the

ends securely to the transmission and the cooler. Ensure all connections are tight and properly seated to prevent leaks.

6. **Secure Hoses:** Use any provided or existing clips and hangers to secure the hose assembly, preventing chafing or contact with moving parts or hot surfaces.
7. **Refill Transmission Fluid:** Consult your vehicle's owner's manual for the correct type and amount of transmission fluid. Refill the transmission to the appropriate level.
8. **Check for Leaks:** Start the engine and allow it to reach operating temperature. Carefully inspect all new connections for any signs of leaks. Address any leaks immediately.
9. **Final Check:** Recheck the transmission fluid level after the vehicle has been driven for a short period and has reached operating temperature. Adjust as necessary.



Figure 4.1: Close-up view of the hose ends and connections of the Dorman 624-997 assembly, illustrating the design for secure fitment.

5. MAINTENANCE

Regular inspection of your automatic transmission oil cooler hose assembly can help prevent future issues and ensure optimal performance of your vehicle's transmission cooling system.

Recommended Maintenance:

- **Visual Inspection:** Periodically inspect the entire length of the hose assembly for any signs of wear, cracks, kinks, or damage. Check for corrosion around the fittings and connections.
- **Leak Detection:** Look for any signs of transmission fluid leaks around the hose and its connections. Even small drips can indicate a developing problem.
- **Fluid Level Check:** Regularly check your transmission fluid level according to your vehicle manufacturer's recommendations. Low fluid levels can indicate a leak in the system, including the cooler lines.
- **Secure Mounting:** Ensure that the hose assembly remains securely mounted and is not rubbing against other components, which could lead to premature wear.

6. TROUBLESHOOTING

This section addresses common issues that may arise with the automatic transmission oil cooler hose assembly.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Transmission fluid leak from hose assembly	Loose connections, damaged hose/fitting, improper installation.	Tighten connections. Inspect hose and fittings for damage; replace assembly if damaged. Ensure proper installation procedures were followed.
Transmission overheating (after installation)	Air in the system, low transmission fluid, kinked hose, incorrect part.	Bleed air from the system if applicable. Check and top off transmission fluid. Inspect hose for kinks or obstructions. Verify correct part for vehicle.
Hose appears damaged shortly after installation	Improper routing, contact with hot/moving parts, installation error.	Re-route hose to avoid contact. Ensure all mounting points are secure. Replace damaged assembly.

7. SPECIFICATIONS

Detailed technical specifications for the Dorman 624-997 Automatic Transmission Oil Cooler Hose Assembly:

Attribute	Value
Brand	Dorman
Model Number	624-997
Material	Metal, Rubber
Item Weight	1.3 Pounds (0.59 kg)
Maximum Pressure	100 PSI (approx.)
Nominal Wall Thickness	0.03 inches (0.76 mm)
Item Length	46 Inches (116.84 cm)
UPC	037495164993
Manufacturer	Dorman Products
OEM Part Number Equivalents	5801323; 55056624AB; 55056624AC; 55056624AD
Position	Center
Exterior Finish	Machined

TRANSMISSION LINES

Every Dorman transmission line design goes through a dozen validation tests to help ensure reliability.

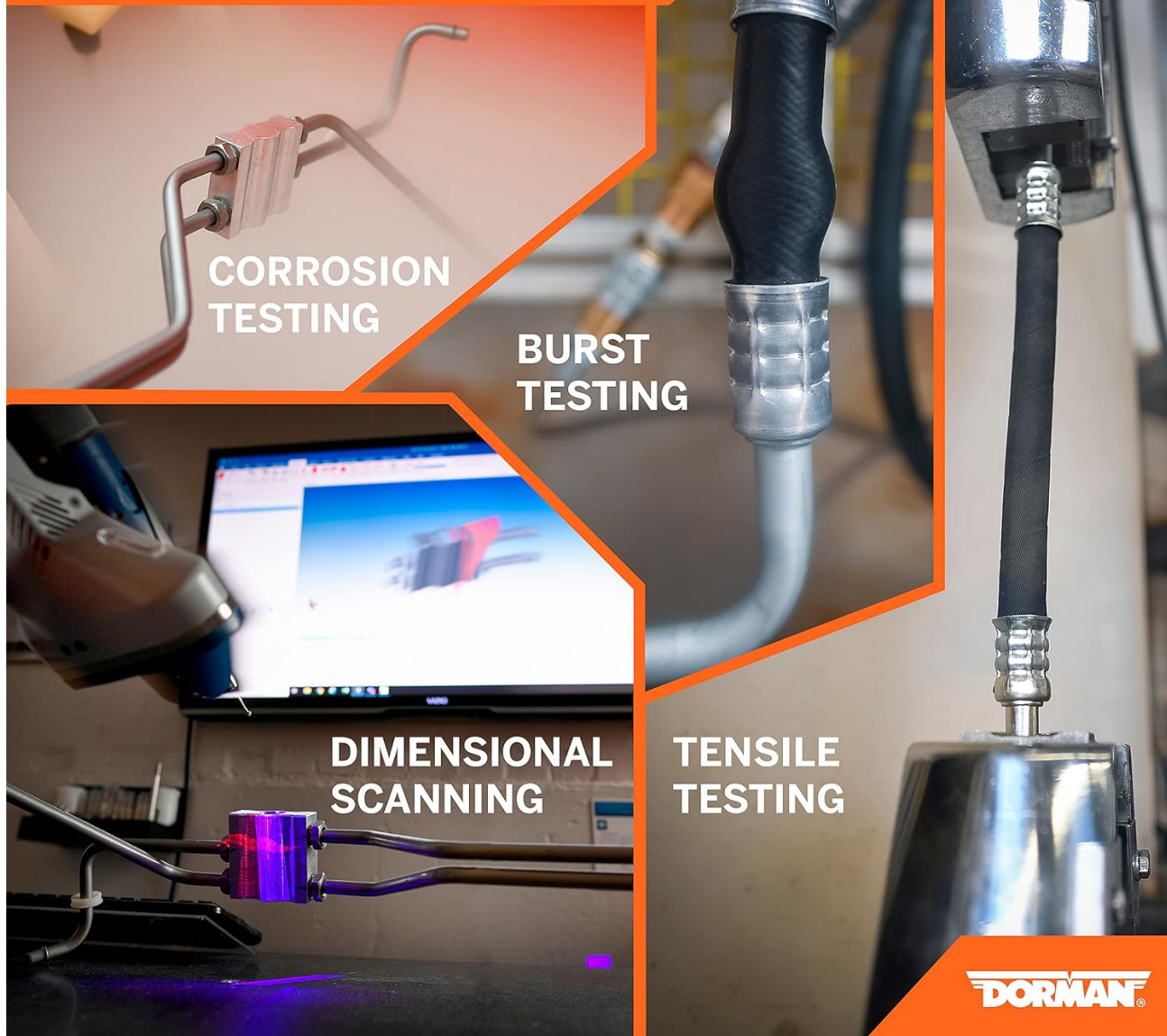


Figure 7.1: Dorman's commitment to quality is demonstrated through rigorous testing processes for transmission lines, including corrosion, burst, dimensional scanning, and tensile testing.

8. WARRANTY AND SUPPORT

Dorman products are designed and manufactured to high-quality standards. For specific warranty information regarding the Dorman 624-997 Automatic Transmission Oil Cooler Hose Assembly, please refer to the warranty documentation included with your purchase or visit the official Dorman website.

For technical support, installation assistance, or any product-related inquiries, please contact Dorman customer service directly. Their team of product experts is available to provide guidance and support.

You can find contact information on the Dorman website or through your product retailer.

