

## Dorman 800-604

# Dorman 800-604 Transmission Line Connector Instruction Manual

This manual provides installation, maintenance, and troubleshooting information for the Dorman 800-604 Transmission Line Connector, designed to restore leak-free performance in automatic transmission oil cooler lines.

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## 1. PRODUCT OVERVIEW

The Dorman 800-604 is a direct replacement transmission oil cooler line connector. It is engineered to match the fit and function of the original equipment connector, ensuring a precise fit and leak-free durability. This component is crucial for maintaining the integrity of your vehicle's automatic transmission cooling system.

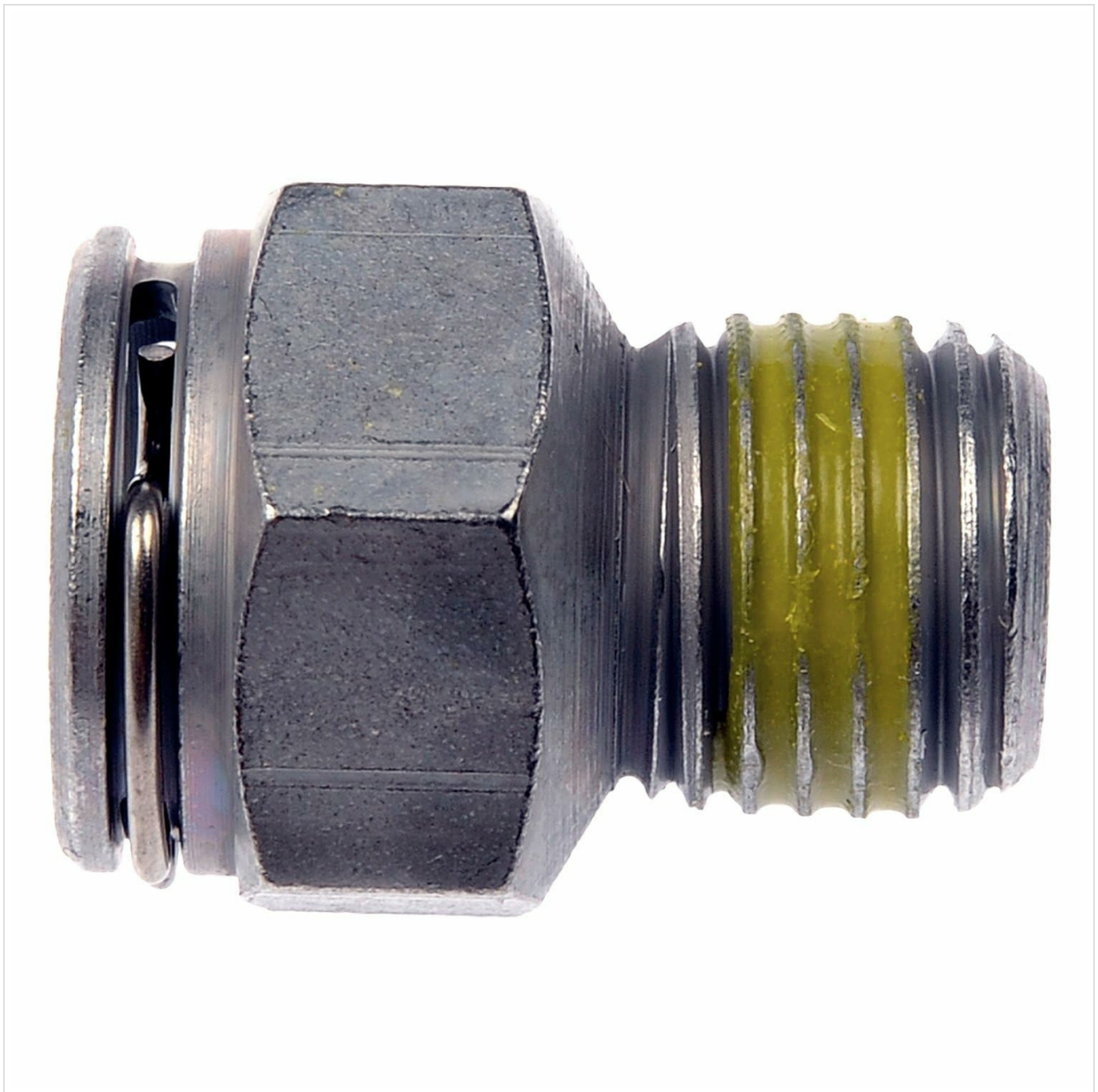


Figure 1: Dorman 800-604 Transmission Line Connector. This image shows the connector from a side view, highlighting the threaded end and the quick-connect mechanism.

2. SPECIFICATIONS

Attribute	Detail
Brand	Dorman
Model Number	800-604
Material	Nitrile Rubber (seals)
Item Weight	0.01 Ounces
Nominal Wall Thickness	0.0625 inches

Outside Diameter	0.68 Inches
Item Length	1 Inches
UPC	019495026433

### 3. INSTALLATION INSTRUCTIONS

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Proper installation is critical for ensuring a leak-free connection and optimal performance of your transmission cooling system. It is recommended to have this connector on hand when performing service on the transmission oil cooler line.

- Vehicle Compatibility Check:** Before beginning installation, verify that the Dorman 800-604 connector is compatible with your specific vehicle model and transmission. Refer to your vehicle's service manual or use online compatibility tools.
- Safety Precautions:** Ensure the vehicle is safely lifted and supported. Disconnect the battery. Allow the transmission and engine to cool down to prevent burns from hot fluids. Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Fluid Drainage:** Place a drain pan beneath the transmission cooler lines to catch any residual transmission fluid that may leak during the removal process.
- Remove Old Connector:** Carefully disconnect the existing transmission line connector. This may involve using a specialized quick-disconnect tool or a wrench, depending on the original equipment design. Be prepared for some fluid leakage.
- Inspect Mating Surfaces:** Clean and inspect the mating surfaces on both the transmission and the cooler line for any debris, corrosion, or damage. Ensure these surfaces are smooth and free of imperfections that could compromise the seal.
- Install New Connector:** Thread the new Dorman 800-604 connector into the transmission port. Hand-tighten first to ensure proper thread engagement, then use a wrench to tighten to the manufacturer's specified torque. *Do not overtighten.*
- Connect Transmission Line:** Insert the transmission oil cooler line into the quick-connect end of the new Dorman 800-604 connector. Push firmly until you hear or feel a positive click, indicating that the line is securely seated. Gently pull on the line to confirm it is locked in place.
- Fluid Refill and Inspection:** Refill the transmission fluid to the appropriate level according to your vehicle's service manual. Start the engine and allow it to reach operating temperature. Carefully inspect the newly installed connector for any signs of leaks.
- Final Check:** After a test drive, re-inspect the connector for leaks.



Figure 2: Angled view of the Dorman 800-604 Transmission Line Connector. This perspective highlights the quick-connect mechanism and the threaded portion, showing the yellow sealant on the threads.

## 4. OPERATION

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The Dorman 800-604 Transmission Line Connector is a passive component designed to provide a secure and leak-free connection between the transmission and the oil cooler line. Once correctly installed, it functions continuously as part of the transmission cooling system, ensuring proper fluid circulation and temperature regulation. No user interaction is required for its operation after installation.

## 5. MAINTENANCE

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The Dorman 800-604 connector is designed for long-term durability and typically requires minimal maintenance. However, periodic inspection is recommended as part of routine vehicle maintenance:

- **Visual Inspection:** During oil changes or other under-vehicle inspections, visually check the connector for any signs of fluid leaks, corrosion, or physical damage.

- **Cleanliness:** Keep the area around the connector clean from dirt, grime, and road debris, which can potentially degrade the material over time.
- **Fluid Compatibility:** Ensure that only recommended transmission fluids are used in your vehicle, as incompatible fluids can affect the integrity of seals and materials.

## 6. TROUBLESHOOTING

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If issues arise after installation, consider the following troubleshooting steps:

- **Fluid Leaks:**
  - **Check Connection:** Ensure the transmission line is fully seated and locked into the quick-connect mechanism. A loose connection is a common cause of leaks.
  - **Verify Torque:** Confirm that the threaded end of the connector is tightened to the vehicle manufacturer's specifications. Overtightening or undertightening can cause leaks.
  - **Inspect Seals:** If leaks persist, the internal seals (Nitrile Rubber) may be damaged or improperly seated. Re-installation or replacement of the connector may be necessary.
  - **Mating Surface Condition:** Re-inspect the transmission port and cooler line for any burrs, scratches, or debris that could prevent a proper seal.
- **Incorrect Fitment:**
  - If the connector does not thread properly or the line does not connect securely, double-check the part number against your vehicle's requirements. Ensure the correct size and thread pitch are used.
  - Verify that the transmission line end is not damaged or deformed, which could prevent a secure connection.

## 7. WARRANTY INFORMATION

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The Dorman 800-604 Transmission Line Connector comes with a **Limited Lifetime Warranty**. For specific terms, conditions, and to initiate a warranty claim, please refer to the official Dorman Products website or contact Dorman customer support directly. Proof of purchase may be required.

## 8. CUSTOMER SUPPORT

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For further assistance, technical support, or inquiries regarding the Dorman 800-604 Transmission Line Connector, please contact Dorman Products customer service. You can find contact information on the official Dorman website:

[www.dormanproducts.com](http://www.dormanproducts.com).