

## CURT 56471

# CURT 56471 Vehicle-Side Custom 4-Pin Trailer Wiring Harness Instruction Manual

For Ford Bronco (Non-LED Models)

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your CURT 56471 Vehicle-Side Custom 4-Pin Trailer Wiring Harness. This harness is designed to provide a standard 4-way flat connector for towing applications on specific Ford Bronco models not equipped with LED taillights. Please read all instructions carefully before beginning installation.

## 2. PRODUCT OVERVIEW

The CURT 56471 wiring harness is a custom, vehicle-side electrical device that integrates with your vehicle's existing wiring system to provide a 4-way flat trailer wiring connection. It eliminates the need for cutting or splicing wires during installation.

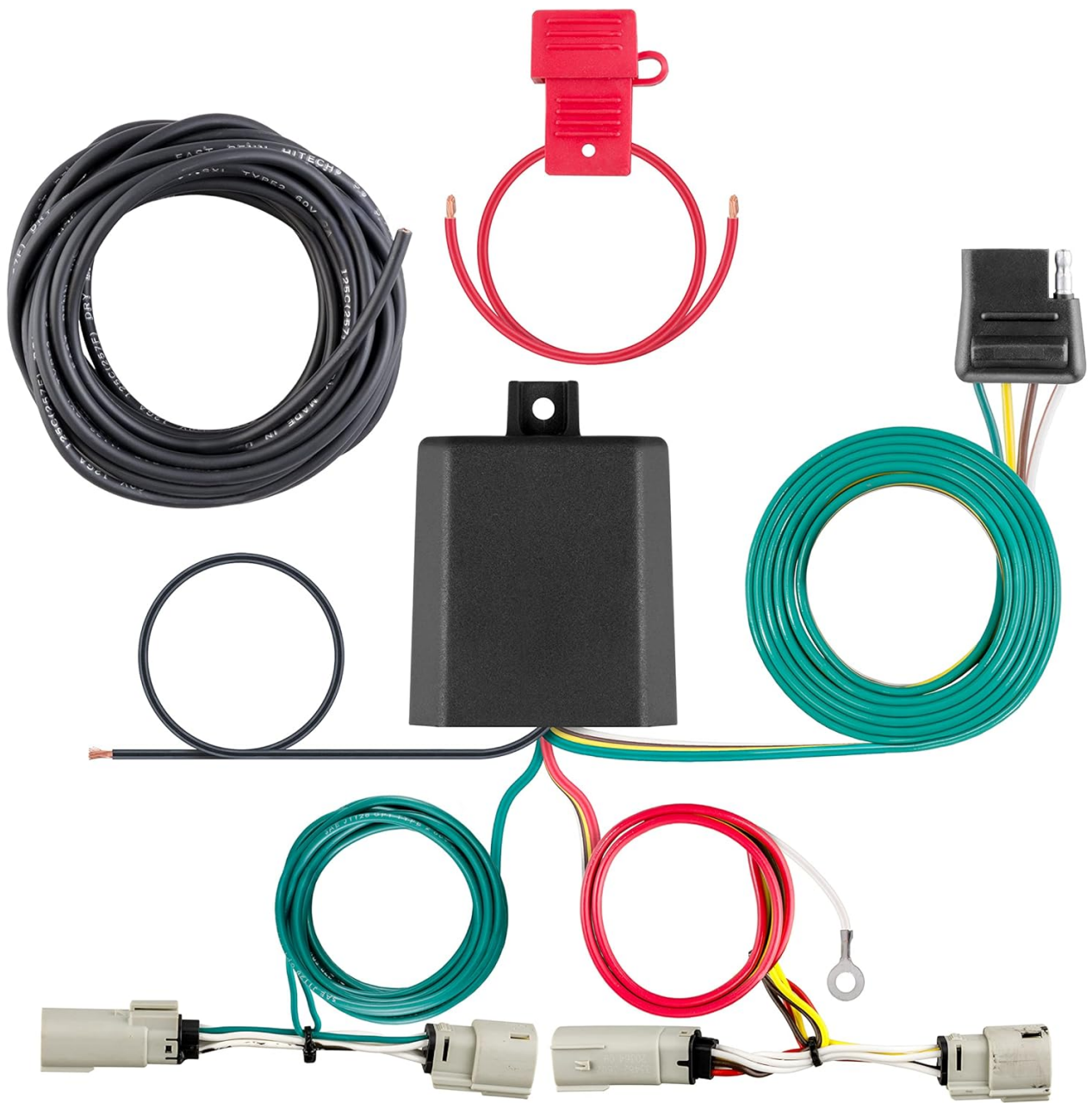
### 2.1. Key Features

- Easy plug-and-play installation with vehicle-specific connectors.
- Provides a standard 4-way flat connector for trailer tail lights, brake lights, and turn signals.
- Built with surface mount technology for reliable power and optimal light intensity.
- Includes a rubber dust cover for connector protection when not in use.

### 2.2. Components Included

The kit typically includes the following components:

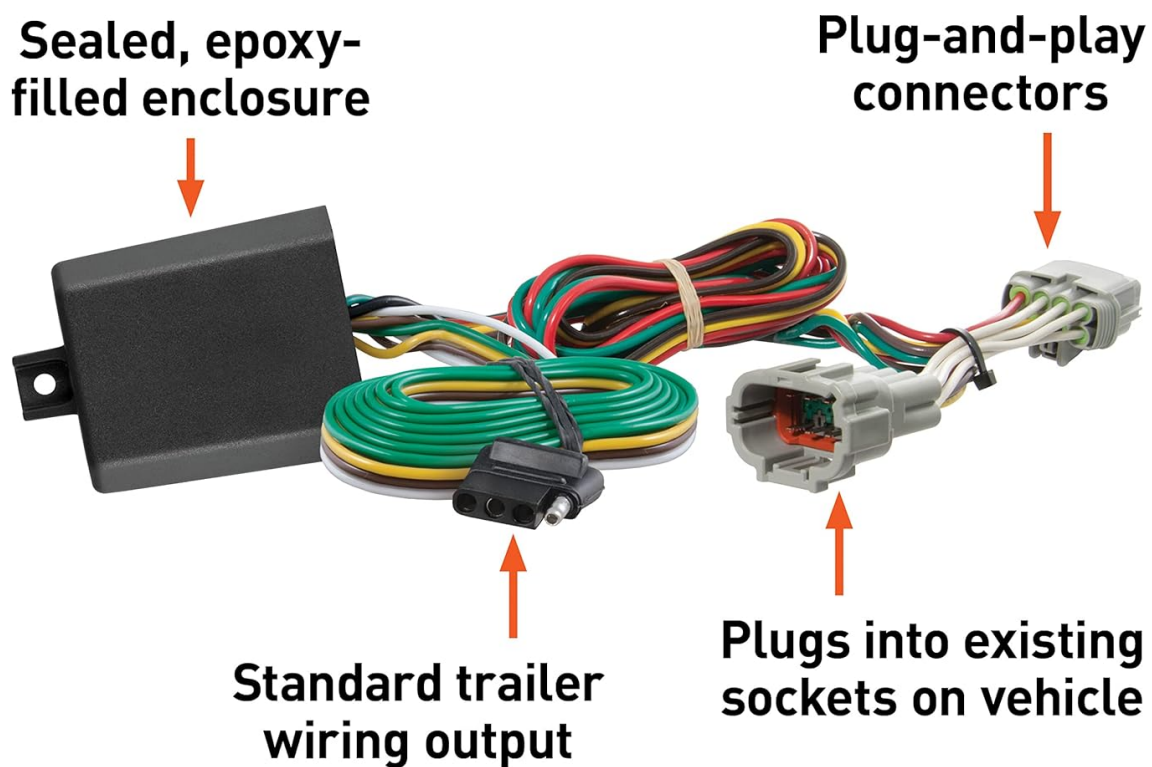
- T-connector wiring harness with vehicle-specific plugs.
- 4-way flat connector with dust cover.
- Power wire (for battery connection).
- Fuse holder and fuse.
- Ring terminal (for ground connection).
- Cable ties for securing wiring.
- Installation instructions.



**Figure 1:** Overview of the CURT 56471 wiring harness components. This image displays the main T-connector harness, the 4-pin flat connector, power wire, fuse holder, and other small parts included in the kit.

# FEATURES & BENEFITS

## Representative Image



**Figure 2:** Diagram illustrating key features of the CURT wiring harness, including the sealed, epoxy-filled enclosure, plug-and-play connectors, and standard trailer wiring output.

# FEATURES & BENEFITS

Dust cover included



**Figure 3:** Close-up view of the 4-way flat connector with the included rubber dust cover, designed to protect the terminals when not in use.

## 3. VEHICLE COMPATIBILITY

This CURT 56471 wiring harness is specifically designed for select years of the **Ford Bronco without LED lights**. It is crucial to verify your vehicle's taillight type before installation. This harness is not compatible with Ford Bronco models equipped with LED taillights.

Refer to the product packaging or manufacturer's website for a complete list of compatible vehicle years and trims.

## 4. INSTALLATION INSTRUCTIONS

The installation process involves connecting the T-connector harness to your vehicle's taillight assemblies and routing a power wire to the vehicle battery.

### 4.1. Tools Required

- Basic hand tools (e.g., screwdriver, wrench set).
- Wire crimpers/strippers.



- Test light or multimeter (optional, for verifying connections).
- Zip ties (additional may be useful).
- Safety glasses.

## 4.2. Pre-Installation Steps

1. **Safety First:** Disconnect the vehicle's negative battery terminal before starting any electrical work.
2. **Access Taillights:** Depending on your Ford Bronco model, you may need to remove the taillight assemblies to access the wiring connectors. Consult your vehicle's owner's manual for specific instructions on taillight removal.
3. **Identify Connectors:** Locate the vehicle's taillight wiring connectors. The CURT T-connector will plug directly into these.

## 4.3. Harness Connection

4. **Connect T-Connectors:** Separate the vehicle's taillight wiring connectors. Insert the corresponding ends of the CURT T-connector harness into the vehicle's wiring, ensuring a secure fit. Repeat for both sides of the vehicle.
5. **Route 4-Way Flat:** Route the 4-way flat connector end of the harness towards the rear center of the vehicle, where it will connect to the trailer. Secure it using zip ties to prevent it from dragging or getting caught.

# FEATURES & BENEFITS

Standard trailer wiring output

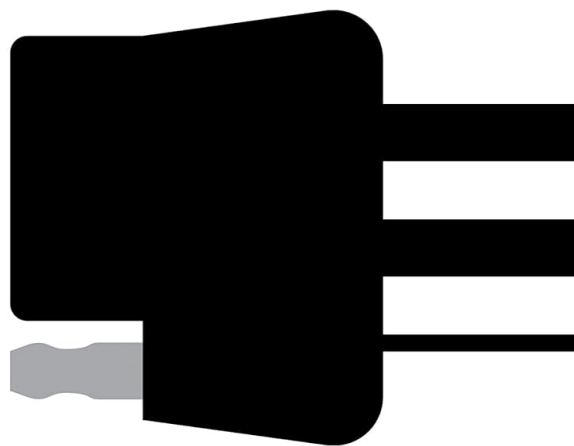
Trailer end  
not included



**Figure 4:** Illustration of the plug-and-play connectors, designed to integrate seamlessly with existing vehicle wiring without cutting.

#### 4.4. Power and Ground Connections

6. **Route Power Wire:** Route the included power wire from the harness module to the vehicle's positive battery terminal. Ensure the wire is routed safely away from hot exhaust components, moving parts, and sharp edges. Use zip ties to secure the wire along the vehicle's frame.
7. **Install Fuse Holder:** Install the fuse holder as close to the battery as possible. Cut the power wire, crimp the fuse holder into place, and insert the fuse.
8. **Ground Connection:** Connect the white ground wire from the harness to a clean, unpainted metal surface on the vehicle's frame using the provided ring terminal and a self-tapping screw. Ensure a solid ground connection for proper operation.



**Figure 5:** Various installation components including the fuse, fuse holder, ring terminal, and zip ties. These are essential for securing and powering the wiring harness.

#### 4.5. Final Steps

9. **Secure Module:** Mount the harness module in a dry, secure location using the provided double-sided tape or zip ties.
10. **Reconnect Battery:** Reconnect the vehicle's negative battery terminal.
11. **Test Functionality:** Connect a trailer or a trailer light tester to the 4-way flat connector and verify that all trailer lights (tail, brake, turn signals) function correctly.

**Important: If your vehicle uses Pulse Width Modulation (PWM) technology for its lights, a powered converter (like the one integrated into this harness) is necessary for proper trailer light function. Do not attempt to tap into wires directly.**

## 5. OPERATION

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Once installed, the CURT 56471 harness provides a standard 4-way flat electrical connection for your trailer.

### 5.1. Connecting a Trailer

1. Ensure the vehicle's engine is off and the parking brake is engaged.
2. Remove the dust cover from the 4-way flat connector.
3. Align the pins of the trailer's 4-way flat connector with the sockets on the vehicle's harness and push firmly to connect.
4. Secure any excess wiring to prevent it from dragging.

### 5.2. Disconnecting a Trailer

1. Ensure the vehicle's engine is off and the parking brake is engaged.
2. Grasp both connectors firmly and pull them apart. Do not pull on the wires.
3. Replace the dust cover on the vehicle's 4-way flat connector to protect it from dirt and moisture.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and reliable performance of your wiring harness.

- **Inspect Connections:** Periodically check all electrical connections for corrosion, damage, or loose fittings. Clean any corrosion with a wire brush and electrical contact cleaner.
- **Dust Cover:** Always use the provided dust cover when the 4-way flat connector is not in use to protect it from environmental elements.
- **Wire Routing:** Ensure all wiring remains securely fastened and away from hot or moving parts. Replace any damaged zip ties.
- **Fuse Check:** If trailer lights fail to operate, check the fuse in the inline fuse holder. Replace with a fuse of the same amperage rating if blown.

## 7. TROUBLESHOOTING

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If you experience issues with your trailer lights, follow these steps:

1. **Check Connections:** Ensure all T-connector plugs, power wire connections, and the ground wire are securely attached.
2. **Inspect Fuse:** Verify the fuse in the inline fuse holder is not blown. Replace if necessary.
3. **Test Trailer Lights:** Connect the trailer to another vehicle (if available) to determine if the issue is with the trailer's wiring or the vehicle's harness.
4. **Vehicle Lights:** Confirm that your vehicle's taillights, brake lights, and turn signals are functioning correctly without the trailer connected.
5. **Corrosion:** Check the 4-way flat connector pins and sockets for corrosion. Clean as needed.

If problems persist after following these steps, contact CURT customer support or a qualified automotive technician.

## 8. SPECIFICATIONS

### CURT 56471 Wiring Harness Specifications

Feature	Detail
Model Number	56471
Connector Type	4-way Flat
Vehicle Compatibility	Select Ford Bronco (without LED lights)
Material	Thermoplastic Rubber
Item Weight	1.4 Pounds
Product Dimensions	9 x 6 x 3 inches

## 9. RELATED VIDEOS

The following videos provide additional information about CURT products and towing.

### 9.1. CURT | The First Name in Towing Products | This Is Family

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This video showcases the CURT brand philosophy, highlighting family and the towing lifestyle. It features various towing scenarios and CURT products in use.

### 9.2. CURT 56023 T-Connector (General Overview)

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This video provides a general overview of CURT T-connector wiring harnesses, demonstrating their function and ease of installation. While not specific to the 56471 model, it illustrates the common principles of T-connector installation.

## 10. WARRANTY AND SUPPORT




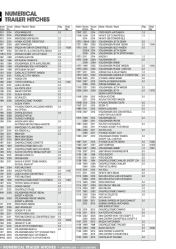
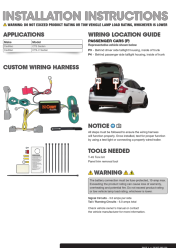
For warranty information, technical support, or to purchase replacement parts, please visit the official CURT website or contact their customer service department. Keep your purchase receipt and model number (56471) handy when contacting support.

**CURT Website:** [www.curtmfg.com](http://www.curtmfg.com)

### Related Documents - 56471

	<p><a href="#">CURT 55513 Custom Wiring Harness Installation Guide for Toyota Tacoma, T-100, Hilux</a></p> <p>Step-by-step installation instructions for the CURT 55513 custom wiring harness, featuring 4-way flat output, for Toyota Tacoma, T-100, and Hilux vehicles. Includes safety warnings, tools needed, and application details.</p>
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	<p><a href="#">CURT 56325 Installation Instructions: Trailer Wiring Harness for Cadillac XT5 &amp; GMC Acadia</a></p> <p>Detailed installation guide for the CURT 56325 custom vehicle-trailer wiring harness. Includes application details for Cadillac XT5 and GMC Acadia, wiring location, tools needed, and safety warnings.</p>
	<p><a href="#">CURT 58979 Universal RV Wiring Harness Installation Manual</a></p> <p>Detailed installation guide for the CURT 58979 Universal Splice-In Towed-Vehicle RV Wiring Harness for Dinghy Towing. Includes wiring types, location guides, tools, and step-by-step instructions.</p>
	<p><a href="#">CURT Trailer Brake Controller Harness Installation Guide for Ford Bronco &amp; F-Series (Models 51312)</a></p> <p>Official installation instructions from CURT for their trailer brake controller harness (model 51312) compatible with Ford Bronco and F-Series vehicles. Includes step-by-step guidance and location details.</p>
	<p><a href="#">Curt Trailer Hitches: Comprehensive Numerical Guide</a></p> <p>A detailed numerical listing of trailer hitches by Curt Manufacturing, organized by vehicle make, model, and year, including part numbers, ratings, and replacement information.</p>
	<p><a href="#">CURT 56207 Custom Wiring Harness Installation Instructions for Cadillac CTS/CTS-V</a></p> <p>Step-by-step installation guide for the CURT 56207 custom wiring harness, designed for Cadillac CTS Sedan and CTS-V Sedan models. Includes wiring location details, tools required, safety warnings, and comprehensive installation procedures.</p>