

## CURT 56106

# CURT 56106 Vehicle-Side Custom 4-Pin Trailer Wiring Harness

Instruction Manual for Select Toyota Sienna Models

## 1. PRODUCT OVERVIEW

The CURT 56106 Vehicle-Side Custom 4-Pin Trailer Wiring Harness is designed to provide a standard 4-way flat trailer wiring connection for vehicles not originally equipped for towing. This T-connector system integrates directly into your vehicle's existing electrical system, typically at the taillight assemblies, eliminating the need for cutting, splicing, or soldering wires. It offers a reliable and secure electrical connection for trailer tail lights, brake signal lights, and turn signals.

This harness is vehicle-specific, ensuring a precise fit and optimal performance for compatible Toyota Sienna models. It includes all necessary wiring components and a dust cover to protect the connector when not in use.



Figure 1.1: Complete CURT 56106 wiring harness kit, showing the main converter box, various wiring segments, and connectors.

## 2. SAFETY INFORMATION

- Always disconnect the vehicle's battery before beginning any electrical installation to prevent electrical shock or damage to the vehicle's electrical system.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Route wiring away from hot surfaces, sharp edges, and moving parts to prevent damage and ensure longevity.
- Verify proper function of all trailer lights (tail lights, brake lights, turn signals) after installation and before towing.
- Do not exceed the maximum amperage rating of the wiring harness or the vehicle's electrical system.

## 3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Custom Wiring Harness (T-connector with integrated converter module)
- 4-Way Flat Connector with Dust Cover
- Power Wire (for battery connection, if applicable)
- Fuse Holder and Fuse
- Ring Terminal

- Splice Connectors
- Cable Ties
- Mounting Hardware (screws, etc.)

10 COMPATIBLE VEHICLES			
YEAR †	MAKE †	MODEL †	STYLE †
2020	Toyota	Sienna	SE
2019	Toyota	Sienna	SE
2018	Toyota	Sienna	SE
2017	Toyota	Sienna	SE
2016	Toyota	Sienna	SE
2015	Toyota	Sienna	SE
2014	Toyota	Sienna	ALL
2013	Toyota	Sienna	ALL
2012	Toyota	Sienna	ALL
2011	Toyota	Sienna	ALL

Figure 3.1: Individual components of the CURT 56106 kit, including the circuit protection information card, fuse, terminals, and cable ties.

## 4. SETUP AND INSTALLATION

This custom wiring harness is designed for a plug-and-play installation. For detailed, step-by-step instructions, it is highly recommended to refer to the official CURT installation manual PDF and any available video tutorials specific to your vehicle's year and model.

**Download the official Installation Manual (PDF):** [CURT 56106 Installation Manual](#)

### General Installation Steps:

1. **Preparation:** Ensure the vehicle is turned off and the negative battery terminal is disconnected. Gather all tools required (e.g., trim panel removal tools, wrenches, wire strippers/crimpers if power wire connection is needed).
2. **Access Taillight Assemblies:** Locate and carefully remove the taillight assemblies on both the driver and passenger sides of the vehicle. This typically involves removing retaining screws and gently prying the assembly away from the vehicle body.
3. **Connect T-Connectors:** The harness features vehicle-specific connectors. Plug the appropriate T-connector ends into the vehicle's taillight wiring harnesses. These are designed to fit directly between the factory harness and the taillight assembly.
4. **Mount Converter Module:** Find a secure, dry location within the vehicle's rear cargo area (e.g., behind a trim panel) to mount the converter module. Use the provided mounting hardware or cable ties to secure it.
5. **Route 4-Way Flat Connector:** Route the 4-way flat connector to an accessible location near the trailer hitch. Ensure it is protected from pinching, heat, and road debris.
6. **Connect Power Wire (if applicable):** Some installations require a direct connection to the vehicle's battery for consistent power. Route the power wire from the converter module to the battery, ensuring it is protected and fused according to the instructions. Connect the fuse holder and fuse as specified.
7. **Ground Connection:** Secure the white ground wire to a clean, unpainted metal surface on the vehicle chassis using a self-tapping screw or existing bolt.
8. **Reassemble:** Reinstall the taillight assemblies and any removed trim panels.
9. **Test:** Reconnect the vehicle's battery. Use a trailer or a trailer light tester to verify that all trailer lights (tail, brake, left turn, right turn) function correctly.

# FEATURES & BENEFITS

## Representative Image

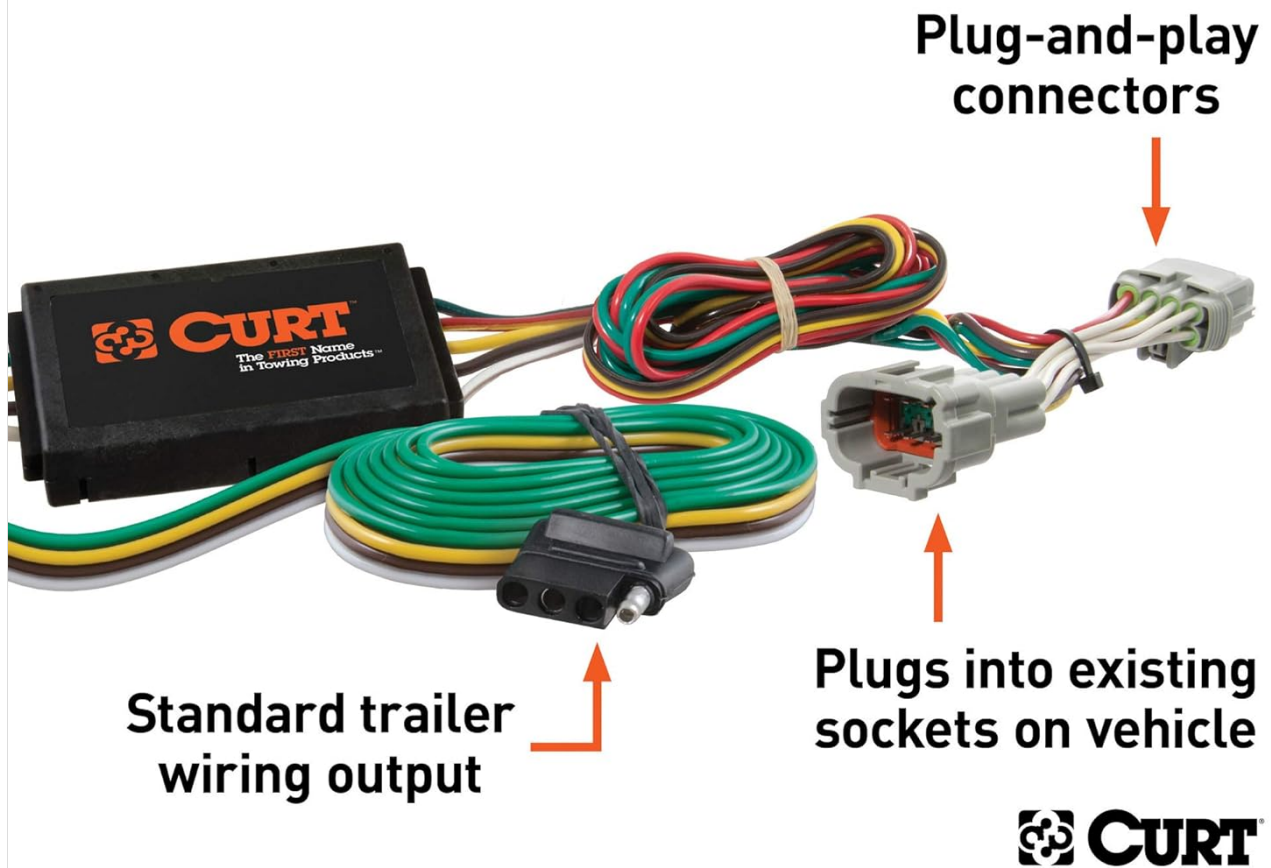


Figure 4.1: Illustration of the plug-and-play connectors that plug into existing vehicle sockets and the standard trailer wiring output.



# FEATURES & BENEFITS

Standard trailer wiring output

Trailer end  
not included



Figure 4.2: Detail of the standard 4-way flat trailer wiring output, showing the male and female ends.

# PLUG OUTPUT

## 4-Way Flat Vehicle End

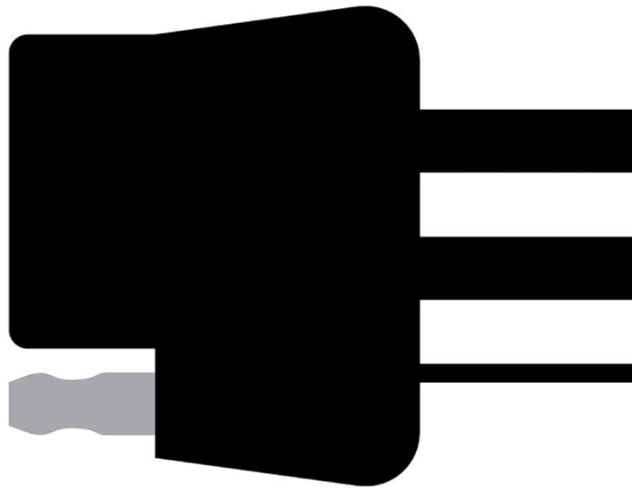


Figure 4.3: The included rubber dust cover easily fits onto the 4-way flat connector for protection when not in use.

## 5. OPERATING THE WIRING HARNESS

Once installed, the CURT 56106 wiring harness provides a standard 4-way flat connector for connecting to a trailer. This connector transmits signals for:

- Left Turn Signal / Brake Light
- Right Turn Signal / Brake Light
- Tail Lights / Running Lights
- Ground

To operate, simply plug the 4-way flat connector from your trailer into the corresponding connector on your vehicle's wiring harness. Ensure the connection is secure before driving. When not towing, use the provided dust cover to protect the connector from dirt, moisture, and corrosion.

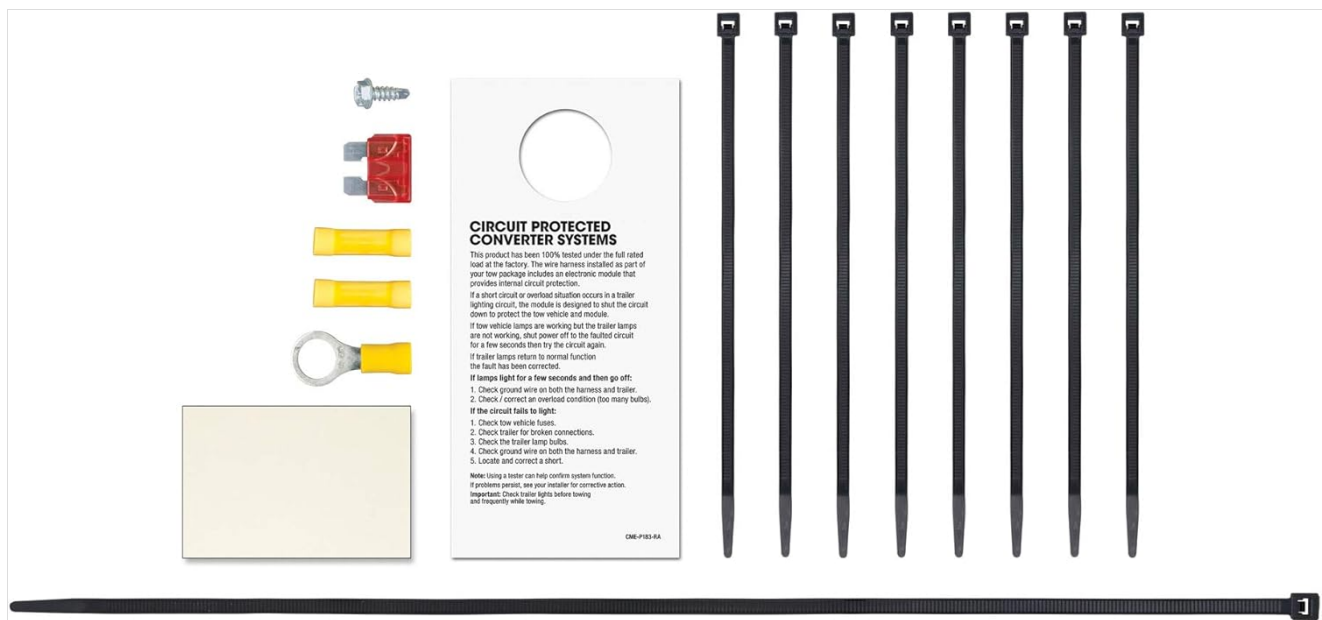


Figure 5.1: Visual representation of the 4-way flat vehicle end plug output.

## 6. MAINTENANCE

- **Regular Inspection:** Periodically inspect the wiring harness, especially the 4-way flat connector, for any signs of wear, corrosion, or damage.
- **Clean Connections:** Keep the 4-way flat connector clean and free of dirt and debris. Use electrical contact cleaner if necessary.
- **Use Dust Cover:** Always use the provided dust cover when the harness is not connected to a trailer to protect the terminals from the elements.
- **Secure Wiring:** Ensure all wiring remains securely routed and fastened to prevent chafing or damage from vehicle movement or road conditions.

## 7. TROUBLESHOOTING

The CURT 56106 harness features a circuit-protected converter system designed to prevent damage to the vehicle's electrical system in case of a short circuit or overload. If you experience issues with your trailer lights, refer to the following:

### Circuit Protected Converter Systems:

This product has been 100% tested under full load and provides internal circuit protection. If a short circuit or overload situation occurs in a trailer lighting circuit, the module is designed to shut the circuit down, allowing no current to flow until the issue is resolved.

- If trailer lamps are working but the trailer lamps are not working, shut power off to the faulted circuit for a few seconds then try the circuit again.
- If lamps do not return to normal function, the fault has not been cleared.

### If lamps light for a few seconds and then go off:

1. Check ground wire on both the harness and trailer.
2. Check for an overload condition (too many bulbs).

### If the circuit fails to light:

- 1. Check low vehicle fuse.
- 2. Check for open or broken connections.
- 3. Check for defective bulbs.
- 4. Check ground wire on both the harness and trailer.
- 5. Locate and correct a short.

*Note: Using a tester can help confirm system function. If problems persist, see your installer for corrective action. Do not use the product while towing if it is not functioning properly.*

## 8. SPECIFICATIONS

Attribute	Value
Manufacturer	CURT
Model	Custom Wiring
Item Model Number	56106
Item Weight	1.63 pounds
Product Dimensions	6 x 3 x 9 inches
Connector Type	4-Pin Flat
Application	Vehicle-Side, Custom Fit

## 9. VEHICLE COMPATIBILITY

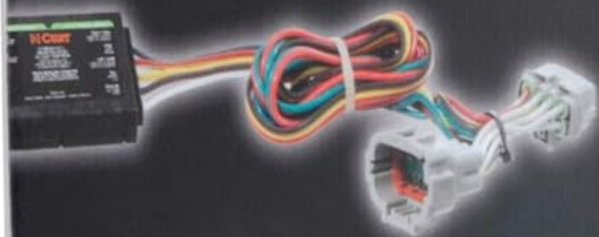
The CURT 56106 Custom 4-Pin Trailer Wiring Harness is designed to fit specific years and models of the Toyota Sienna. Please verify your vehicle's compatibility using the table below or by consulting the official CURT application guide.



Towing Electrical - Custom Wiring



**CUSTOM WIRING HARNESS**  
FAISCEAU DE CÂBLAGE  
ARNÉS DE CABLEADO PREFORMADO A MEDIDA



#### APPLICATIONS



4-way flat output  
Sortie à 4 brins plat  
Salida plana de 4 vías

Make	Model	
Make	Model	
Make	Model	
Make	Model	
Make	Model	88-88
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**NO SPlicing REQUIRED**

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Figure 9.1: Compatible Toyota Sienna models and years for the CURT 56106 wiring harness.

Year	Make	Model	Style
2020	Toyota	Sienna	SE
2019	Toyota	Sienna	SE
2018	Toyota	Sienna	SE
2017	Toyota	Sienna	SE
2016	Toyota	Sienna	SE
2015	Toyota	Sienna	SE
2014	Toyota	Sienna	ALL
2013	Toyota	Sienna	ALL
2012	Toyota	Sienna	ALL
2011	Toyota	Sienna	ALL

## 10. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please visit the official CURT website or contact CURT customer service directly. You can also visit the CURT brand store on Amazon for additional product information and support resources.

**Visit the CURT Store:** [CURT Amazon Brand Store](#)