

Tekonsha 119250

Tekonsha 119250 ZCI Zero Contact Interface Universal ModuLite Instruction Manual

Model: 119250

INTRODUCTION

The Tekonsha 119250 ZCI Zero Contact Interface Universal ModuLite is designed to provide power for trailer stop, turn, tail, and running lights without requiring any cutting or splicing into the tow vehicle's electrical system. This module utilizes current sensors that snap over existing vehicle wires, detecting electrical current and activating the corresponding trailer lights. It is compatible with various vehicle types, including those with standard, PWM (Pulse Width Modulation), and multiplexed systems, and supports both 2-wire and 3-wire vehicle systems.

SAFETY INFORMATION

- **WARNING:** Do not cut or splice vehicle wiring. This product is designed for zero contact installation.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Always disconnect the vehicle's battery before beginning installation to avoid electrical shock or damage to the vehicle's electrical system.
- Verify proper grounding of the ModuLite module to ensure reliable operation and prevent electrical issues.
- If the trailer lights remain on after the vehicle is turned off, immediately investigate the cause to prevent battery drain. This may indicate an incorrect installation or a fault.
- Use appropriate tools and personal protective equipment during installation.

PACKAGE CONTENTS

The Tekonsha 119250 ZCI ModuLite package typically includes the following components:

- Tekonsha ZCI ModuLite Power Module
- Current Sensors (typically 4-5 units)
- 4-Pin Trailer Wiring Connector
- Ground Wire with Ring Terminal
- Power Wire

• Installation Instructions



Image: The Tekonsha 119250 ZCI ModuLite box, showing the main module, several current sensors, and the 4-pin trailer connector.

SPECIFICATIONS

Feature	Specification
Model Number	119250
Turn/Stop Circuit Rating	Up to 4.2 Amps
Taillight Circuit Rating	Up to 7.5 Amps
Compatibility	Standard, PWM, and Multiplexed Systems (2-wire or 3-wire)
Bulb Compatibility	LED and/or Incandescent bulbs (vehicle and trailer)
Protection	Integrated, re-settable short circuit and overload protection

Feature	Specification
Weight	Approximately 1.15 pounds

TEKONSHA® | APPROXIMATE DIMENSIONS



Image: Diagram illustrating the approximate dimensions of the Tekonsha 119250 ZCI ModuLite packaging, showing a height of 8.9 inches, width of 4.8 inches, and depth of 4 inches.

INSTALLATION INSTRUCTIONS (SETUP)

The ModuLite ZCI is designed for a non-invasive installation, avoiding any cutting or splicing of your vehicle's wiring. This makes it ideal for leased vehicles or those with sensitive electronics.

Required Tools and Additional Components (Not Included):

- Voltmeter or Test Light
- Wire Strippers/Crimpers
- Electrical Tape or Heat Shrink Tubing
- Fuse Holder (for power wire)
- Crimp Connectors (various types as needed)
- Battery Terminal Connector
- Additional 12-gauge wire (if needed for power/ground extension)

- Zip Ties or Mounting Hardware

Step-by-Step Installation:

1. **Prepare the Vehicle:** Ensure the vehicle is turned off and the battery is disconnected. Identify a suitable, dry location in the rear of the vehicle (e.g., trunk, cargo area, or under the vehicle) to mount the ModuLite module.
2. **Identify Vehicle Wires:** Using a voltmeter or test light, identify the vehicle's tail light, stop light, left turn signal, and right turn signal wires. These wires will be used with the current sensors. For vehicles with combined stop/turn signals (2-wire system), the module will adapt this to a standard trailer 2-wire system. For vehicles with separate stop and turn signals (3-wire system), the module will also adapt.
3. **Connect Power and Ground:**
 - Route the ModuLite's power wire (typically black or red) directly to the vehicle's battery. Install an inline fuse holder (not included) with the specified fuse (usually 15A, one is included) as close to the battery as possible. Connect the power wire to the positive (+) battery terminal.
 - Connect the ModuLite's ground wire (typically white) to a clean, unpainted metal surface on the vehicle chassis, ensuring a solid electrical connection. Use the provided ring terminal or a suitable crimp connector.
4. **Attach Current Sensors:** For each identified vehicle light wire (tail, stop, left turn, right turn), snap the corresponding current sensor over the wire. Ensure the wire passes through the sensor in the correct direction as indicated by an arrow on the sensor. If the sensor does not work, reverse its direction or loop the wire through twice if the signal is weak.
5. **Connect 4-Pin Trailer Connector:** Connect the 4-pin trailer wiring harness from the ModuLite module to the location where your trailer connector will be accessed. This typically involves routing it to the exterior of the vehicle near the hitch.
6. **Mount the Module:** Securely mount the ModuLite module in the chosen dry location using zip ties or other appropriate mounting hardware. Ensure it is protected from moisture and physical damage.
7. **Test the System:** Reconnect the vehicle battery. Connect a trailer or a trailer light tester to the 4-pin connector. Test all trailer light functions: tail lights, brake lights, left turn signal, and right turn signal.

TEKONSHA® | FEATURES AND BENEFITS

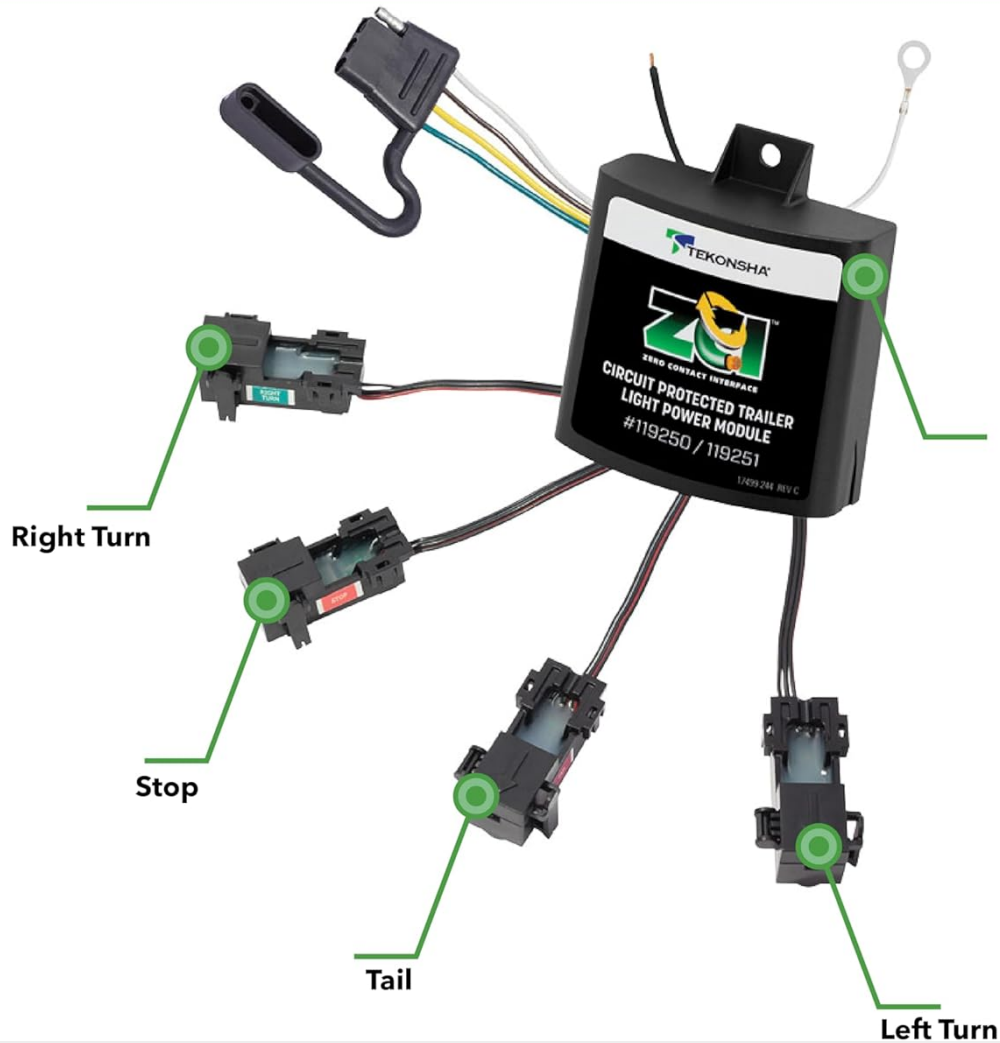


Image: An overhead view of the Tekonsha 119250 ZCI ModuLite, showing the main module connected to four current sensors, each labeled for Right Turn, Stop, Tail, and Left Turn signals. The 4-pin trailer connector is also visible.



Smart Signal Sensing

The ModuLite 119191 uses less than 5mA of the vehicle's circuit to activate trailer functions, ensuring minimal electrical draw and efficient operation.

Image: A close-up view demonstrating the 'Smart Signal Sensing' feature, showing a vehicle wire passing through a current sensor, with an indicator light on the sensor. This illustrates the non-invasive method of detecting electrical signals.

TEKONSHA® | INCLUDED HARDWARE

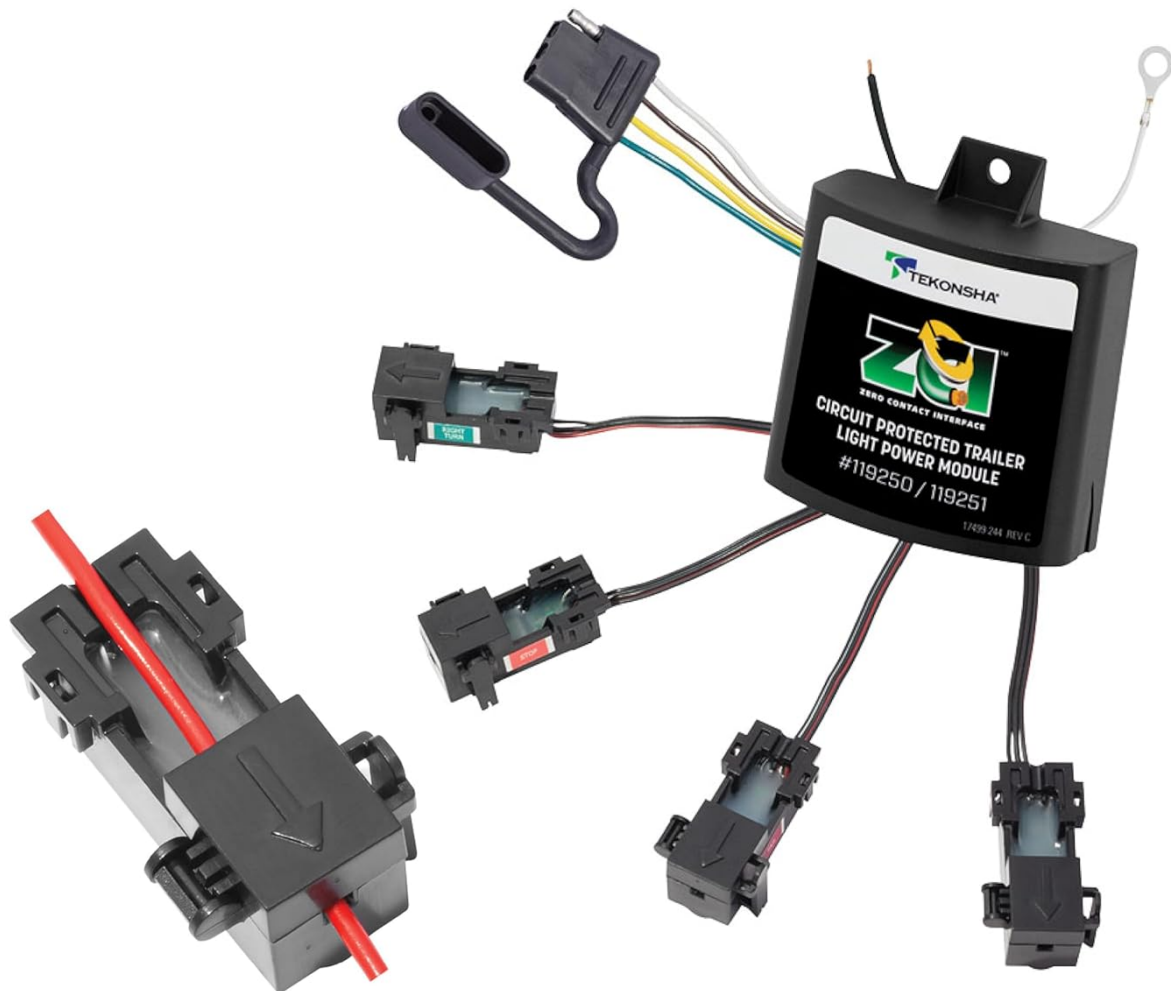


Image: A detailed view of the Tekonsha 119250 ZCI ModuLite's included hardware, featuring the main module, multiple current sensors, and the 4-pin trailer connector. A separate red wire with a sensor is also shown, highlighting the components for installation.

OPERATION

Once properly installed, the Tekonsha 119250 ZCI ModuLite operates automatically. When the vehicle's lights (tail, stop, turn signals) are activated, the current sensors detect the electrical flow in the vehicle's wiring. The ModuLite then draws power directly from the vehicle's battery (via the dedicated power wire) to illuminate the corresponding trailer lights. This ensures that the trailer lights receive full brightness and do not interfere with the vehicle's sensitive electrical systems or 'lamp out' sensors.

- The module is compatible with both LED and incandescent bulbs on both the tow vehicle and the trailer.
- It adapts 3-wire vehicle systems (separate turn and stop lights) to standard 2-wire trailer taillight wiring.



Additional features



CIRCUIT PROTECTION



RATED:
UP TO 4.2 AMPS TURN/STOP
UP TO 7.5 AMPS TAIL LIGHT



NO CUTTING
OR SPLICING



BATTERY POWERED

Image: A graphic highlighting additional features of the ModuLite ZCI, including circuit protection, ratings of up to 4.2 amps for turn/stop and 7.5 amps for tail lights, the 'no cutting or splicing' installation method, and its battery-powered operation.

TROUBLESHOOTING

• No Trailer Lights or Incorrect Function:

- **Check Power and Ground:** Ensure the power wire is securely connected to the battery (with fuse) and the ground wire has a solid connection to the chassis.
- **Verify Sensor Placement:** Confirm that each current sensor is correctly snapped over the intended vehicle wire and that the wire passes through in the direction indicated by any arrows on the sensor. Try reversing the sensor or looping the wire through twice if the signal is weak.
- **Inspect Fuse:** Check the inline fuse on the power wire. Replace if blown.
- **Trailer Connection:** Ensure the 4-pin trailer connector is properly connected to the trailer or tester.

• Trailer Lights Remain On After Vehicle is Off (Battery Drain):

- This indicates the module is still receiving a signal or power when it shouldn't. Re-verify all sensor connections and ensure no vehicle wires are inadvertently providing a constant signal.
- Ensure the power wire is connected to a constant 12V source that is not switched by the ignition, as the

module is designed to be battery-powered. The issue might stem from a vehicle's residual power or a faulty sensor connection.

- If the problem persists, consider installing a manual on/off switch on the power line to the ModuLite module to prevent battery drain when not in use.

• **Power Wires Reversed (as reported by some users):**

- If initial testing shows the trailer ground pin has voltage and light wires are grounded, it's possible the power and ground wires from the module are reversed. Carefully verify the polarity of your connections using a voltmeter before connecting to a trailer.

MAINTENANCE

The Tekonsha 119250 ZCI ModuLite requires minimal maintenance. Periodically inspect the following:



- **Wiring and Connections:** Check all wires for signs of wear, fraying, or damage. Ensure all electrical connections, especially the power and ground connections, remain secure and free of corrosion.
- **Module Mounting:** Verify that the module is still securely mounted and protected from environmental elements.
- **Current Sensors:** Ensure the current sensors remain properly clipped onto the vehicle wires and have not shifted.
- **4-Pin Connector:** Keep the 4-pin trailer connector clean and free of debris. Use a dielectric grease to protect the terminals from corrosion if exposed to the elements.




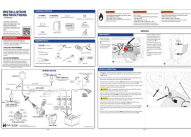
WARRANTY AND SUPPORT

The Tekonsha 119250 ZCI ModuLite is backed by Tekonsha, a trusted name in towing safety. For specific warranty details, claims, or technical assistance, please refer to the official Tekonsha website or contact their customer support directly. Keep your purchase receipt as proof of purchase for any warranty claims.

For additional information and support, you may visit the official Tekonsha store or website:[Tekonsha Store](#)

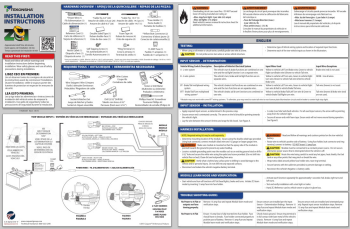
Related Documents - 119250

	<p>Toyota Corolla Cross T-One® Connector Installation Guide</p> <p>Detailed installation instructions for the Tekonsha T-One® Connector harness (Part # 118864-037) on a Toyota Corolla Cross. Covers tools, safety, and step-by-step wiring and mounting procedures.</p>
	<p>Tekonsha T-One® Connector Installation Guide for Honda HR-V</p> <p>Step-by-step installation instructions for the Tekonsha T-One® Connector (118877-037) on a Honda HR-V. Includes tools, safety warnings, and wiring details for a 4-way flat trailer connection.</p>

	<p>Tekonsha T-One Trailer Hitch Wiring Harness Installation for Mercedes Sprinter and Freightliner Sprinter</p> <p>Step-by-step installation guide for the Tekonsha T-One T-Connector harness (118876-037) for Mercedes Sprinter and Freightliner Sprinter vehicles. Includes tools required, safety warnings, and detailed instructions for connecting the wiring harness to the vehicle's taillight system and battery.</p>
	<p>Tekonsha 7-Way Vehicle Complete Kit Installation Guide for Ford Bronco</p> <p>This guide provides detailed installation instructions for the Tekonsha 7-Way Vehicle Complete Kit, designed for Ford Bronco models equipped with LED tail lights. It covers hardware overview, required tools, step-by-step installation procedures for vehicle preparation, module connection, harness routing, and completion, along with a troubleshooting guide.</p>
	<p>Tekonsha Electronic Brake Control Installation and User Guide</p> <p>Comprehensive guide for installing and operating the Tekonsha Electronic Brake Control, covering components, wiring, adjustments, troubleshooting, and trailer brake maintenance.</p>
	<p>Ford Maverick Tow Harness Installation Instructions</p> <p>Step-by-step guide for installing a Tekonsha 7-way tow harness on a Ford Maverick, including hardware overview, required tools, wiring details, and troubleshooting.</p>

Documents - Tekonsha – 119250

[\[pdf\]](#) User Manual Installation Guide Instructions

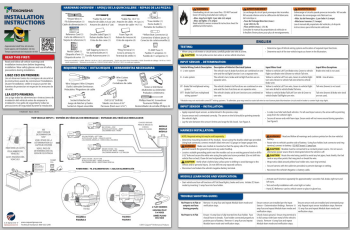


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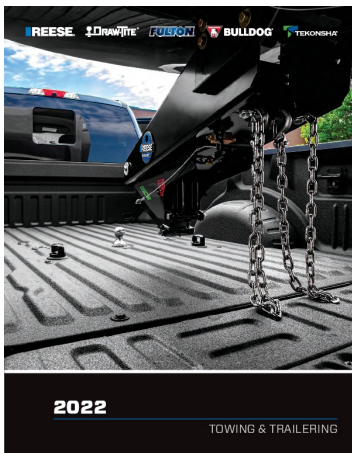
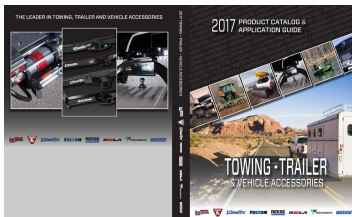
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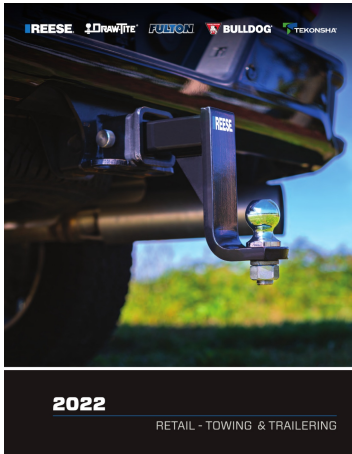
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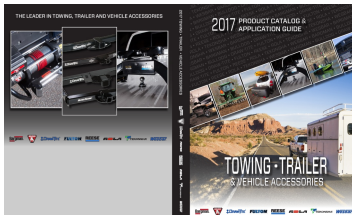
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