

TEKONSHA 119251

TEKONSHA 119251 ZCI Zero Contact Interface Universal ModuLite & Installation Kit

Model: 119251 | Brand: TEKONSHA

1. INTRODUCTION

The Tekonsha 119251 ZCI Zero Contact Interface Universal ModuLite is a power module designed to activate a trailer's stop, turn, tail, and running lights. This system operates by directly connecting to the tow vehicle's battery, utilizing sensors that snap over existing vehicle wires to detect electrical current. This design ensures absolutely zero contact with the tow vehicle's electrical system, eliminating the need for cutting or splicing wires. It is suitable for 12-volt vehicle systems only and works with both 2-wire and 3-wire vehicle systems.



Image: The Tekonsha 119251 ZCI ModuLite kit, showing the main module, wiring harness, and current sensors, alongside its packaging.

2. KEY FEATURES

- **Zero Contact Interface:** Activates trailer lights without cutting or splicing into the vehicle's wiring system, using snap-on current sensors.
- **Universal Compatibility:** Works with all vehicle types, including standard, PWM, and multiplex systems, ensuring full brightness of trailer lights. Compatible with 2-wire or 3-wire systems and 12-volt vehicle systems only.
- **Overload Protection:** Features integrated, re-settable short circuit and overload protection, safeguarding the module and tow vehicle. Rated at 4.2 amps for turn/stop circuits and 7.5 amps for the taillight circuit.
- **Versatile Mounting:** Robust design allows for both interior or exterior mounting.
- **Recommended Uses:** Ideal for trailers with multiple light assemblies, when towing various trailers, or with

vehicles having 'lamp out' sensors or sensitive electronics.

TEKONSHA® | FEATURES AND BENEFITS

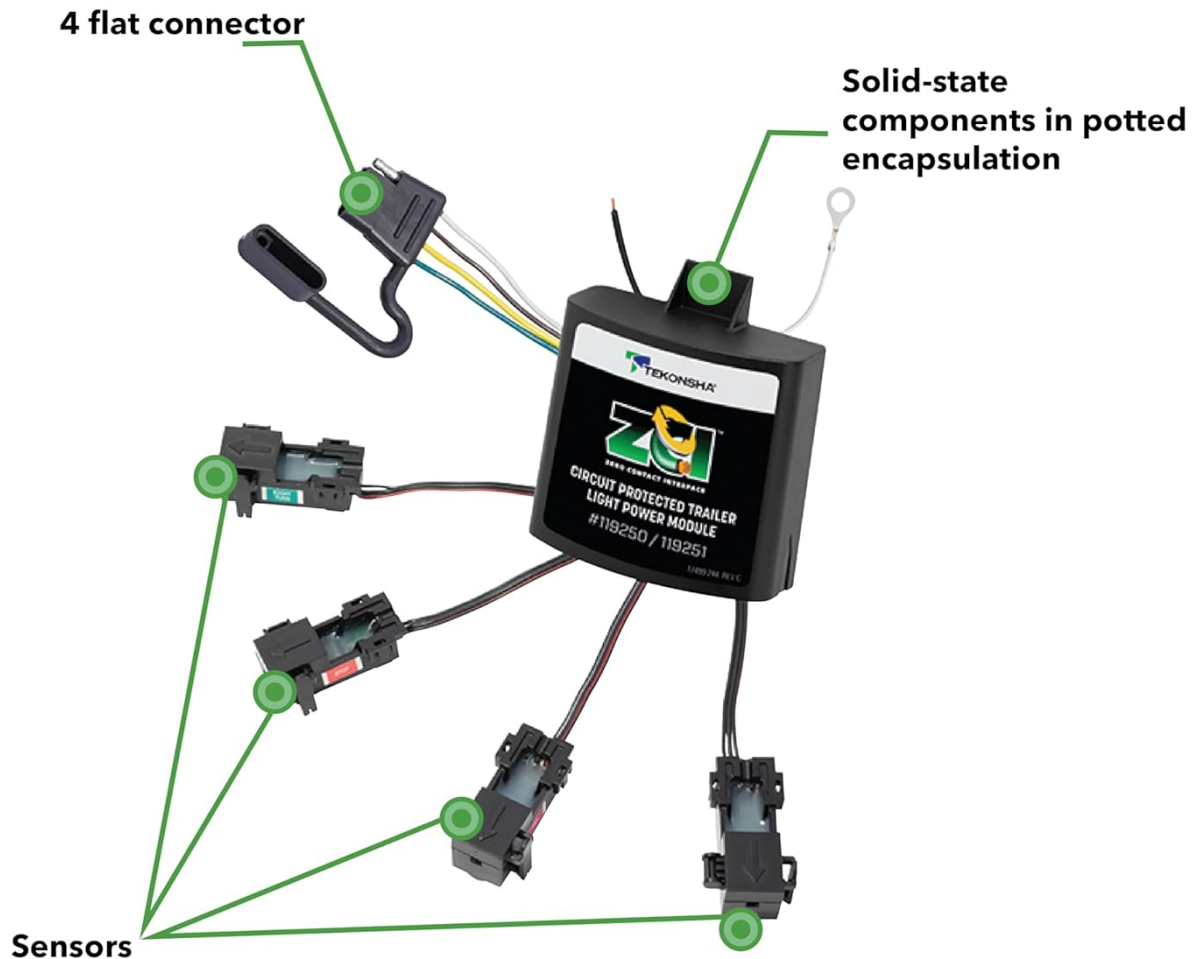


Image: A diagram highlighting the key components and features of the Tekonsha ZCI ModuLite, such as the 4-flat connector, solid-state components, and the current sensors.

3. WHAT'S IN THE BOX

The Tekonsha 119251 ZCI Zero Contact Interface Universal ModuLite & Installation Kit includes:

- Tekonsha Zero Contact Interface T-Connector Trailer Light Power Module
- Wiring Kit (includes various connectors, zip ties, and mounting hardware)

TEKONSHA® | INCLUDED HARDWARE



Image: A complete view of all components included in the Tekonsha 119251 kit, such as the main module, wiring, fuse, connectors, zip ties, and mounting pads.

4. SETUP AND INSTALLATION

Installation of the Tekonsha 119251 ModuLite involves connecting the module to your vehicle's battery and attaching current sensors to the vehicle's existing wiring. This process avoids cutting or splicing, preserving your vehicle's electrical integrity.

4.1. General Installation Steps:

1. **Identify Vehicle Wires:** Locate the vehicle's tail light, brake light, and turn signal wires. A multimeter can be used to identify the correct wires by testing for voltage changes when respective lights are activated.
2. **Attach Current Sensors:** Snap the provided current sensors over the identified vehicle wires. Ensure the sensors are oriented correctly as per the detailed instructions provided in the product's full installation manual. Incorrect orientation may lead to improper function.
3. **Connect to Vehicle Battery:** Connect the module's power wire directly to the vehicle's 12-volt battery, typically

through a fused connection. Connect the ground wire to a suitable vehicle ground point.

4. **Mount the Module:** Securely mount the ModuLite module in a suitable location, either inside or outside the vehicle, using the provided mounting hardware. Ensure it is protected from excessive moisture and heat.
5. **Connect Trailer Wiring:** Plug your trailer's 4-flat connector into the output of the ModuLite module.
6. **Test Functionality:** After installation, test all trailer light functions (tail lights, brake lights, left turn, right turn) to ensure proper operation.

For detailed, step-by-step instructions, refer to the comprehensive installation manual provided with your product. The process is designed to be straightforward, even for those without extensive electrical engineering experience.

TEKONSHA® | FEATURES AND BENEFITS



NO CUTTING OR SPLICING

The T-Connector Trailer Light Power Module activates a trailer's stop/turn/tail/running lights without cutting or splicing into your vehicle's wiring system; simply snap on included current sensors.

Image: A vehicle towing a trailer, illustrating the application of the Tekonsha ZCI ModuLite, with a clear emphasis on its non-invasive installation method.

5. OPERATION

Once installed, the Tekonsha 119251 ModuLite operates automatically. The current sensors detect when the

vehicle's lights (stop, turn, tail, running) are activated. Upon detection, the module draws power directly from the vehicle's battery to illuminate the corresponding trailer lights. This ensures that the trailer lights receive sufficient power for full brightness, regardless of the vehicle's electrical system load or sensitivity.

The module also adapts import and domestic vehicles with separate turn and stop lights (3-wire system) to standard trailer taillight wiring (2-wire system), simplifying compatibility. It is compatible with both LED and incandescent bulbs on both the tow vehicle and the trailer.

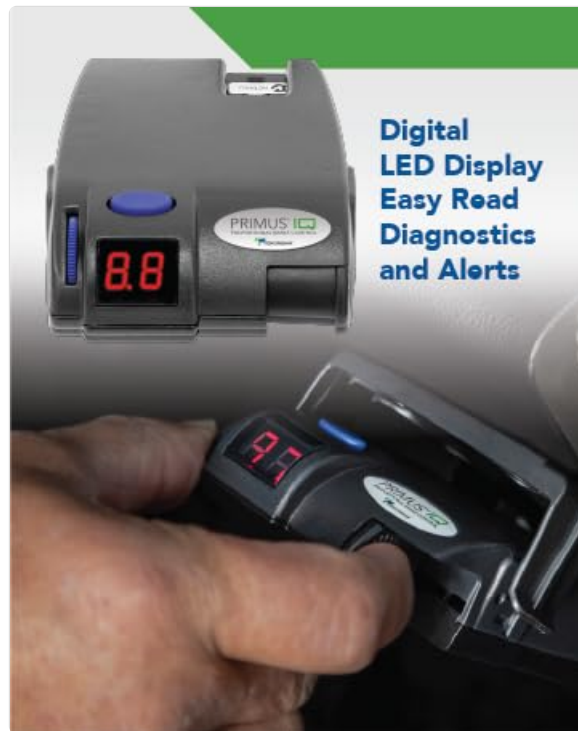


Image: A white van towing a small utility trailer, showcasing the practical application of the Tekonsha ZCI ModuLite for trailer lighting.

6. MAINTENANCE

The Tekonsha 119251 ModuLite is designed for durability and minimal maintenance. Regular checks can help ensure continued reliable operation:

- **Inspect Connections:** Periodically check all wiring connections, especially the battery and ground connections, for corrosion or looseness. Ensure the current sensors remain securely snapped onto the vehicle wires.
- **Module Condition:** Inspect the module for any signs of physical damage. The robust design allows for interior or exterior mounting, but protection from extreme elements is always recommended.
- **Overload Protection:** The module features re-settable short circuit and overload protection. In case of an overload, the module will temporarily cease operation to protect itself and the vehicle. Once the fault is cleared, it should reset automatically.

7. TROUBLESHOOTING

7.1. Trailer Lights Remain On After Vehicle is Off

Some vehicle electrical systems may continue to provide a residual current, or the module may draw a small constant current, which can keep trailer lights illuminated or slowly drain the vehicle battery if left connected for extended periods.

- **Solution:** To prevent battery drain, it is recommended to disconnect the 4-pin trailer connector from the module when the trailer is not in use. Alternatively, consider installing an inline switch on the module's power wire or removing the fuse when the vehicle is parked for long durations.

7.2. Trailer Lights Not Functioning or Incorrectly

If trailer lights are not working as expected (e.g., no lights, incorrect signals, dim lights), check the following:

- **Sensor Placement and Orientation:** Ensure each current sensor is correctly snapped onto the designated vehicle wire and that its orientation is correct. Refer to the installation manual for specific guidance on sensor direction.
- **Power and Ground Connections:** Verify that the module's power wire is securely connected to the vehicle's 12-volt battery and that the ground wire has a solid connection to the vehicle chassis.
- **Fuse Check:** Inspect the fuse on the module's power wire. Replace if blown.
- **Trailer Wiring:** Ensure the trailer's wiring and lights are in good working condition and that the 4-flat connector is properly seated.
- **Vehicle System Compatibility:** Confirm your vehicle is a 12-volt system. While the module is universal, ensure no other vehicle-specific electrical issues are present.

8. SPECIFICATIONS

Model	119251
Item Weight	1.86 pounds
Product Dimensions	48 x 5 x 3.75 inches
Turn/Stop Circuit Rating	Up to 4.2 amps
Taillight Circuit Rating	Up to 7.5 amps
Vehicle System Compatibility	12-Volt Vehicle Systems Only









Image: Approximate dimensions of the Tekonsha 119251 ModuLite packaging, indicating its compact size.

9. WARRANTY AND SUPPORT

The Tekonsha 119251 ZCI Zero Contact Interface Universal ModuLite is backed by Tekonsha, a trusted name in towing safety. For specific warranty details, terms, and conditions, please refer to the documentation included with your product or visit the official Tekonsha website.

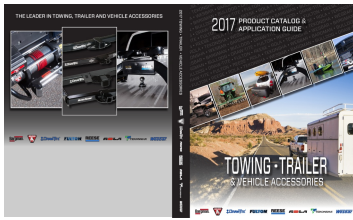
For technical assistance, troubleshooting beyond this manual, or to inquire about warranty claims, please contact Tekonsha customer support directly. Contact information can typically be found on the product packaging or the manufacturer's website.

Related Documents - 119251

	<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>
	<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 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>Horizon Global 2022 Towing & Trailering Catalog: REESE, Draw-Tite, Tekonsha, Bulldog, Fulton</p> <p>Explore the comprehensive 2022 towing and trailering catalog from Horizon Global, featuring a wide range of hitches, brake controllers, and accessories from leading brands like REESE, DRAW-TITE, TEKONSHA, BULLDOG, and FULTON. Find vehicle-specific application guides and product information.</p>
	<p>AL-KO ESC Electric Brake Controller Compatibility Guide</p> <p>Official compatibility status for electric brake controllers with the AL-KO ESC system, listing approved and not approved models, along with essential compatibility statements and conditions.</p>
	<p>IKEA ALEX Drawer Unit Assembly Instructions</p> <p>This document provides step-by-step assembly instructions for the IKEA ALEX drawer unit, a versatile storage solution for home and office.</p>

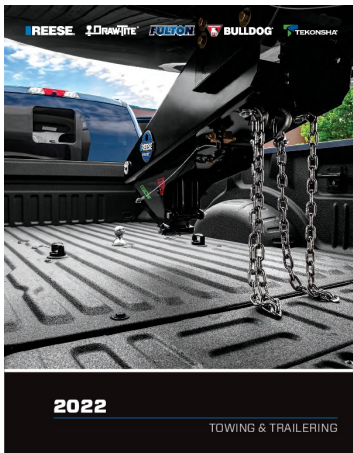
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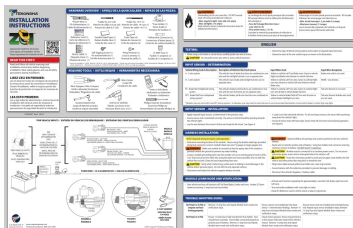
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[\[pdf\]](#) User Manual Installation Guide Instructions

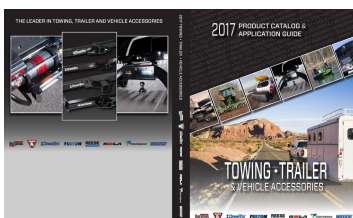
TEKONSHA 119251 ZCI Zero Contact Interface Universal ModuLite Installation Kit Wiring Harness Circuit Protected Works with 2 or 3 Wire Systems 12 Volt Vehicle Only119251 Manual TEKONSHA Tekonsha Only B01CKQJCBYA1XK853BCXSm media amazon images I A1XK853BCXS B01CKQJCBYTekonsha Tail Light Converter Elite RVm A1XK853BCXSvehiclepartimages PMDT TEK InstallationInstructions ||| **HARDWARE OVERVIEW / APERU DE LA QUINCAILLERIE / REPASO DE LAS PIEZAS: INSTALLATION INSTRUCTIONS** *Power Wire 1 *Cable Tie, 8.5 20 *Cable Tie, 14.5 1 Fil d alimentation 1 Attache de cble, 8.5 po 20 Attache de cble, 14.5 po 1 *Fuse Holder 1 Cable de alimentacin 1 Amarre de cable...



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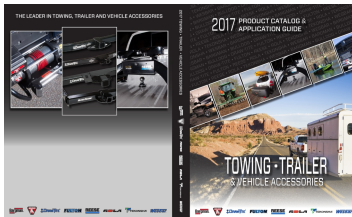
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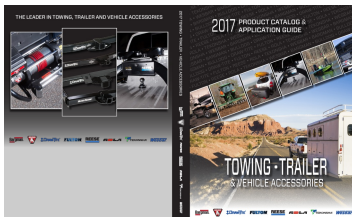


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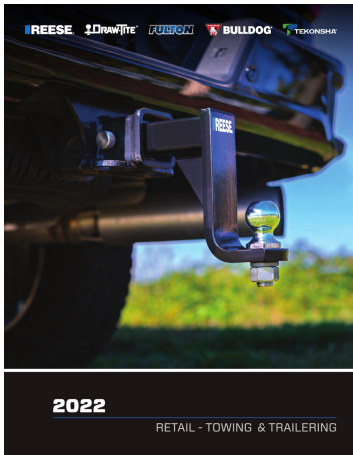
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