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AP Products 157-LR

Starlights 157-LR Load Resistor User Manual

Model: 157-LR | Brand: AP Products

1. Product Overview

The Starlights 157-LR Load Resistor is an essential component designed to resolve hyper-flashing or 'bulb-out' warning messages that can occur when upgrading traditional incandescent turn signal or license plate lights to LED bulbs. LEDs draw significantly less power than incandescent bulbs, which can cause the vehicle's flasher relay or onboard computer to detect a fault, resulting in rapid flashing. This load resistor simulates the electrical load of a standard filament bulb, ensuring the turn signals flash at the correct rate.
Key features include:

- Simulates a filament bulb load to correct turn signal flash rates.
- Constructed from quality materials for durability.
- Designed for use with LED turn signal or license plate lights.

2. What's in the Box

Your package should contain the following items:

- 1 x AP Products 016-157LR Star Lights Load Resistor

3. Installation Guide

Proper installation of the load resistor is crucial for its functionality and safety. It is recommended to have this product installed by a qualified automotive technician.

3.1. General Wiring Diagram

The load resistor must be wired in parallel with each LED turn signal bulb. This means one resistor is typically required for each LED bulb that is causing hyper-flashing.



Image: Starlights 157-LR Load Resistor with included quick-splice connectors.

3.2. Installation Steps

1. **Safety First:** Disconnect the vehicle's battery before beginning any electrical work to prevent short circuits or electrical shock.
2. **Identify Wires:** Locate the positive (+) and ground (-) wires for the turn signal circuit you are modifying. These are typically the two wires leading to the turn signal bulb socket.
3. **Connect Resistor:** Using the included quick-splice connectors or by soldering, connect one wire from the load resistor to the positive (+) wire of the turn signal circuit. Connect the other wire from the load resistor to the ground (-) wire of the turn signal circuit. The resistor does not have a specific polarity, so either wire can connect to positive or ground.
4. **Secure Resistor:** Load resistors generate heat during operation. Mount the resistor to a metal surface away from plastic components, wiring, or other heat-sensitive materials using screws or high-temperature adhesive. Ensure adequate airflow around the resistor.
5. **Test Functionality:** Reconnect the vehicle's battery and test the turn signals to ensure they flash at the correct rate.
6. **Repeat as Necessary:** If you are installing LED bulbs for both front and rear turn signals, you may need a resistor for each corner, depending on your vehicle's wiring.

Important Note: Please confirm item will fit your specific vehicle application before ordering and installation.

4. Operation

The Starlights 157-LR Load Resistor operates passively. Once correctly installed in parallel with your LED turn signal or license plate light, it automatically draws the necessary current to simulate the load of an incandescent bulb. This corrects the vehicle's electrical system detection, allowing the turn signals to flash at their normal, intended rate without any user intervention.

5. Maintenance

The Starlights 157-LR Load Resistor is designed to be maintenance-free. Once installed, no regular servicing or adjustments are required. Periodically inspect the wiring connections and mounting location to ensure they remain secure and free from corrosion or damage, especially if the vehicle operates in harsh environments.

6. Troubleshooting

If you encounter issues after installing the load resistor, consider the following:

- **Hyper-Flashing Persists:**
  - Ensure the resistor is wired in parallel with the LED bulb, not in series.
  - Verify that the connections are secure and making good electrical contact.
  - Confirm that the resistor's wattage and resistance (50W 6 Ohm) are appropriate for your specific LED bulb and vehicle's electrical system. Some vehicles may require different resistor values.
  - Check if a resistor is needed for each LED bulb in the circuit (e.g., one for front left, one for front right, etc.).
- **Resistor Overheating/Melting:**
  - Ensure the resistor is mounted to a metal surface that can dissipate heat effectively.
  - Verify that there is adequate airflow around the resistor.
  - Confirm the resistor is correctly rated for the current draw of your LED setup.
- **No Turn Signal Function:**
  - Check all wiring connections for looseness or incorrect wiring.
  - Inspect the LED bulb itself to ensure it is functioning correctly.
  - Check vehicle fuses related to the turn signal circuit.

7. Specifications

Attribute	Detail
Brand	AP Products
Model Number	157-LR (also 016-157LR)
Resistance	6 Ohm
Power Rating	50 Watts
Color	Red (Resistor body: Gold)
Specific Uses For Product	Number Plates, Turn Signals
Vehicle Service Type	Motorcycle (and other vehicles with 12V systems)
Special Feature	Waterproof
Item Dimensions (L x W x H)	1 x 0.02 x 5.75 inches
Item Weight	0.32 ounces
UPC	834760041023

Attribute	Detail
Assembly Required	No (wiring connections required)

8. Warranty and Support

The Starlights 157-LR Load Resistor includes a one-year limited warranty. This warranty covers defects in materials and workmanship under normal use. For warranty claims or technical support, please contact AP Products customer service. Keep your proof of purchase for warranty validation.

9. Important Safety Information

Warning: This product may contain materials cautioned by California Proposition 65. For more information, visit www.P65Warnings.ca.gov.

Always exercise caution when working with vehicle electrical systems. Disconnect the battery before installation. Ensure all connections are secure and insulated to prevent short circuits. Load resistors generate heat; mount them in a location where heat can dissipate safely and away from flammable materials. If you are unsure about any installation steps, consult a professional automotive technician.

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