

Normal Operation and Fault Conditions

REFER to: Exterior Lighting - System Operation and Component Description .

Possible Sources

- Fuse
- Wiring, terminals or connectors
- Trailer tow connector
- TRM
- Trailer concern

Visual Inspection and Diagnostic Pre-checks

- Verify the BJB fuse 36 (25A) is OK.
- Inspect the trailer tow connector for signs of corrosion or damage. Repair or install a new trailer tow connector as required.

DIAGNOSIS AND TESTING > TRAILER LAMPS > PINPOINT TESTS > PINPOINT TEST F : THE TRAILER BATTERY CHARGING IS INOPERATIVE/DOES NOT OPERATE CORRECTLY > PINPOINT TEST F : THE TRAILER BATTERY CHARGING IS INOPERATIVE/DOES NOT OPERATE CORRECTLY

F1 CHECK FOR VOLTAGE THROUGH THE TRAILER TOW CONNECTOR

Disconnect: Trailer.

Ignition ON.

Using a diagnostic scan tool, view the TRM Parameter Identifications (PIDs).

Select the TRM Point Output Relay (PWR_PT_RLY) active command.

Command the Power Point Output Relay active command ON.

Measure:

Positive Lead	Measurement / Action	Negative Lead
7-Pin Connector, Pin 5		Ground

Is the voltage greater than 11 volts?

Yes	The vehicle is operating correctly. SEND the trailer to an authorized camper/trailer repair facility.
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No	GO to F2
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F2 CHECK FOR VOLTAGE TO THE TRAILER TOW CONNECTOR (VEHICLE HARNESS)

Ignition OFF.

Disconnect: Trailer Tow C4099 .

Ignition ON.

Using a diagnostic scan tool, view the TRM Parameter Identifications (PIDs).

Select the TRM Point Output Relay (PWR_PT_RLY) active command.

Command the Power Point Output Relay active command ON.

Measure:

Positive Lead	Measurement / Action	Negative Lead
C4099-5		Ground

Is the voltage greater than 11 volts?

Yes	INSTALL a new trailer tow connector. TEST the system for normal operation.
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No	GO to F3
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F3 CHECK FOR CHARGING VOLTAGE TO THE TRM (TRAILER MODULE)

Ignition OFF.

Disconnect: TRM C2498A .

Measure:

Positive Lead	Measurement / Action	Negative Lead
C2498A-1		Ground

Is the voltage greater than 11 volts?

Yes	GO to F4
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No	VERIFY the BJB fuse 36 (25A) is OK. If OK, REPAIR the circuit. If not OK, REFER to the OEM WIRING DIAGRAMS to identify the possible causes of the circuit short.
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F4 CHECK THE TRAILER TOW BATTERY CHARGE CIRCUIT FOR AN OPEN