

Electric Trailer Brake Controller (ITBC) Wiring and Auxiliary 12-V Feed to Trailer

Applies to the following 2008 Full-Size Utilities and Pickups:

- 2008 Cadillac Escalade, Escalade ESV, Escalade EXT
- 2008 Chevrolet Avalanche, Silverado, Suburban, Tahoe
- 2008 GMC Sierra, Yukon, Yukon Denali, Yukon XL, Yukon Denali XL

The Following Step-by-Step Explanations Describe Installation of an Electric Trailer Brake Controller and Auxiliary 12-Volt Feed to Trailer

Starting with new 2008 full size utilities and pickups, a separate electric trailer brake controller pigtail harness is no longer provided. The trailer brake controller wiring is now part of the Instrument Panel (IP) wiring harness, and the blunt cut wires are located under the left side of the IP, behind the DataLink connector.

Note: *These instructions do not apply to vehicles with Option JL1 (Integrated Trailer Brake Controls) available on 2008 H.D. trucks; or trucks with Option TP2 (H.D. availability) that already have the 12V battery Trailer Feed used as part of the RPO.*

The explanation on Pages A-4 and A-5 shows how to locate the correct portion of the IP wiring harness and install a typical Trailer Brake Controller in a 2008 Chevrolet Silverado or GMC Sierra Pickup.

The explanation and photos on Page A-7 show how to install an Auxiliary 12V Feed to the Trailer in the same vehicles.

Installing Electric Trailer Brake Controller Wiring



Figure 1

1. Locate the trailer brake control circuits looped and taped to the main harness under the IP (Fig. 1)

NOTE

The vehicle owner's manual (page 483) refers to 4 wires, but there are 5 wires looped back in the IP harness. The fifth wire is not required with most systems (see table below).

Match functions: The color of wires that are joined together may not match.



Figure 2

2. Pull the trailing harness wire down (Fig. 2)

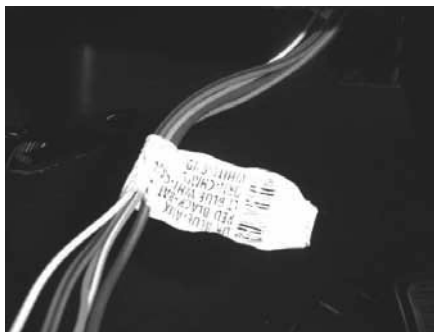


Figure 3

3. Match vehicle harness label circuit functions to the trailer brake controller jumper harness functions (Fig. 3)

| Wire Color | Circuit # | Function |
|------------------------------|-----------|--|
| Dark Blue | 47 | Switched power from controller to trailer brakes |
| Red with Black Stripe | 242 | Fused vehicle power to electrical brake controller - 12-volt (30A stud #2) |
| Light Blue with White Stripe | 6311 | Brake switch input to power electric brake controller |
| White | 22 | Ground |
| Orange | -- | CHMSL (not required with most systems) |

(continued on next page)

Installing Electric Trailer Brake Controller Wiring (cont'd)



Figure 4

4. After completing the under-IP connections to the electric brake controller, open the hood and locate the red wire taped to the harness between the under-hood electrical center and the driver-side front fender (Fig. 4)

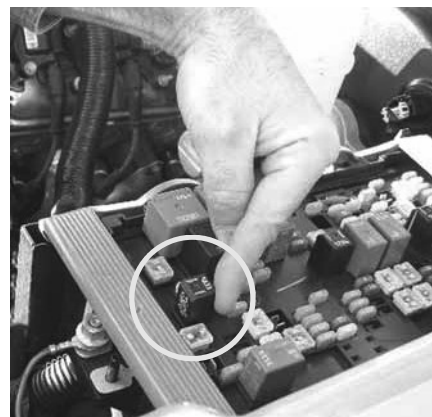


Figure 6

NOTE



The fuse for the trailer brake controller circuit is factory-installed on the under-hood electrical center (Fig. 6)

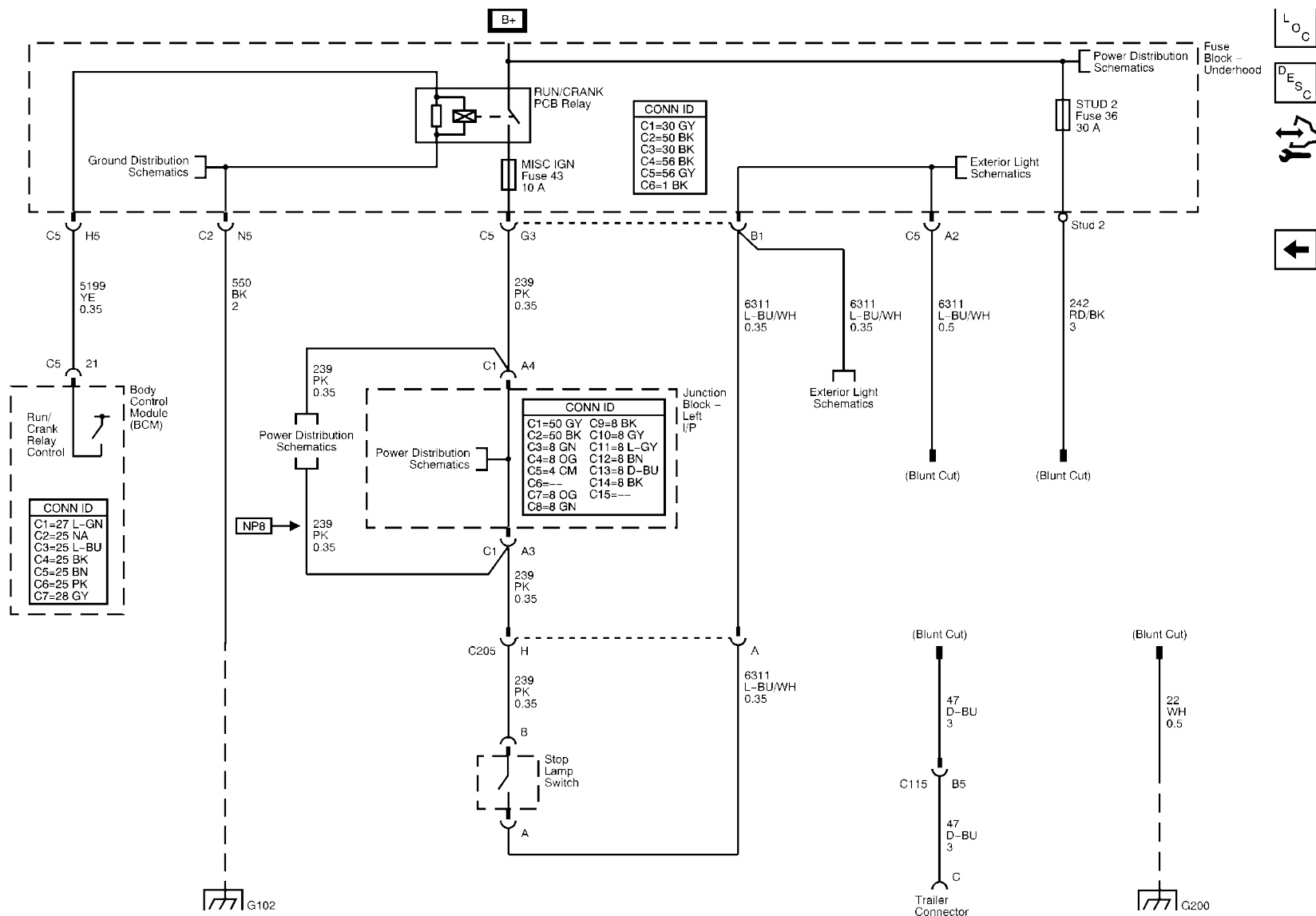


Figure 5

5. Break the tape on the red wire and pull the wire toward the front of the vehicle
6. Remove the cover from the under-hood electrical center
7. Place the terminal on the larger of the two studs at the front of the under-hood electrical center and secure with an M8 nut (Fig. 5)

Electric Trailer Brake Wiring

Electric Trailer Brake Wiring Schematic



Installing Auxiliary 12-Volt Feed to Trailer

NOTE

This hookup is used to provide power for 12-Volt DC electrical devices in the trailer (example: lights, refrigerator or battery charger).

Devices powered by this circuit will drain the vehicle's battery if left connected while the engine/alternator is not operating.



Figure 1



Figure 2

1. Locate the red wire looped and taped to the chassis harness below the brake master cylinder (Fig. 1)
2. Break the tape and route the wire to the front of the vehicle's under-hood electrical center
3. Place the terminal on the smaller of the two studs (Fig. 2) in front of the under-hood electrical center and secure with an M6 fastener



Figure 3

4. Install a 40-amp fuse to power the circuit (Fig. 3)