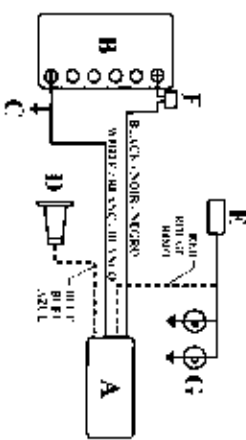


Wiring Instructions for Electronic Brake Controls

READ THIS FIRST:

Read and follow all instructions carefully before wiring brake control. Keep these instructions with the brake control for future reference.

Generic Wiring Diagram



- Brake Control
- ABS
- Trailer Connector
- Stoplight Switch
- Automatic Reverse Cruise Breaker
- Turn / Brake Lights

Important Facts to Remember

- The brake control must be installed with a 12 volt negative ground system. *(Do not install with a positive ground system see Takeaway Training Systems PWS 4991)*
- Reversing BR+VCK and WHITE wires on improper wiring will damage or destroy brake control.
- Be sure to securely terminate all four wires or brake control will not function properly.
- Soldering is recommended on crimp-on butt connectors as a suitable substitution.
- Remove all voltage or fuses from the brake system as possible to reduce AM interference.
- Use of proper gauge wire when installing the brake control is CRITICAL. Serial or gauge wire may result in less than efficient braking. Aluminum wire gauges are as follows:
 - 1-2 axle applications - 14 GA.
 - 3-4 axle applications - 12 GA.
- Collection of water inside the trailer connection mounted on the tow vehicle will reduce the life of the connector. To minimize corrosion build up inside the connector:
 - Connector terminals should be constantly covered with dielectric compound (*Dielectric Footing Systems PWS 2736*).
- Mount trailer connector such that the brake line and ground terminals are not located near the 6 or 10 clock position.
- Technical Assistance Call Toll-Free: 1-800-766-7066

Generic Wiring Instructions

NOTE: Please review your vehicle's Specific Wiring Section before continuing with the following Generic Instructions.

Wiring Legend

- BLACK Wire (Positive Battery)
- WHITE Wire (Negative Battery)
- RED Wire (could side of stoplight switch)
- BLUE Wire (brake output to trailer)
- WHITE Wire (could side of stoplight switch)
- YELLOW Wire (could side of stoplight switch)

NOTE:

- Depending on any other location than the negative terminal of the battery, any reverse direction braking or lack of sufficient voltage to trailer brakes, DO NOT ground the WHITE wire to the dash or other terminal surfaces.
- Connect BL+VCK (+) wire through an automatic reset circuit breaker (20 amp for 1-2 axles, 30 amp for 3 axles) to the POSITIVE (+) terminal of the battery. The BL+VCK wire is the power supply line to the brake control.
- The RED (stoplight) wire must be connected to the cold side of the brake pedal stoplight system. Splice down a line from the switch; TWO NOT (dash) the position of the switch.
- The BLUE (brake output) wire must be connected to the trailer connector's "brake" wire.

Specific Wiring Instructions for Daimler Chrysler Tow Vehicles

NOTE:

- For all Dodge tow vehicles equipped with the factory Tow Trailer Brake Connector, the 15 amp fuse power line will not be sufficient for 3 and 4 axle applications. 1 or 3 and 4 axle applications, a separate power wire should be connected to the POSITIVE (+) terminal of the battery with a 30 amp automatic reset circuit breaker (fuse is required for the connector) in the BR+VCK (+) wire of the brake control.

- 1988-1993 D and W Series:**
The brake control's RED (stoplight) wire splices into the WHITE wire on the cold side of stoplight switch.
- 1994-1995 D and W Series and 1995-1996 Ram Van:**
The brake control's RED (stoplight) wire splices into the WHITE WITTIAN TRUCKER wire on the cold side of the stoplight switch.
- 1996-1999 Dodge Rams / Dakotas and 1999 Durango:**
The Ram Tow Package has a pin connector located on the steering column to set the dash. Follow factory supplied wiring instructions. If you experience intermittent or permanent loss of dash lights on brake control, call Customer Support at 1-800-STD-TRUCK or a Dodge Ground Address Upgrade Kit. This kit will improve your Dodge Tow Vehicle's grounding capabilities.
- 1988-1994 Jeeps:**
The brake control's RED (stoplight) wire splices into the LIGHT BLUET WILD BLACK JACKER wire on the cold side of the stoplight switch.
- 1991-1993 Jeeps:**
The brake control's RED (stoplight) wire splices into the WHITE WITTIAN TRUCKER wire on the cold side of the stoplight switch.

Specific Wiring Instructions for 1994 and Newer Jeeps: Conquest Jeep Models

NOTE:

- From 1992, the Ford Trailer Tow Package (DOTS) NOT include the stoplight wire when the brake control's RED (stoplight) wire splices into.
- For all Ford tow vehicles equipped with the factory Low Package Brake Connector, the 20 and 4 axle power line will not be sufficient for 3 and 4 axle applications. For 3 and 4 axle applications, a separate power wire should be connected to the POSITIVE (+) terminal of the battery with a 30 amp automatic reset circuit breaker (fuse is required for the connector) in the BL+VCK (+) wire of the brake control.

Explorer, Ranger and Aerostar:

- The brake control's RED (stoplight) wire splices into the cold side of the stoplight switch.
- 1989-1991 E and F Series:**
The brake control's RED (stoplight) wire must splice into the stoplight line via the turn signal harness. The turn signal harness is a crescent shaped connector attached to the steering column. The connector has two rows of four positions on the inner row and seven positions on the outer row. The wire, which needs to be spliced into, is LIGHT GREEN in color and is located at the second position of the outer row of seven.
- 1992-1993 E and F Series:**
The brake control's RED (stoplight) wire splices into the Ford 6-pin connector (LIGHT GREEN) for F Series or LIGHT GREEN WITH RED TRACER for E Series. The connector is located at the bottom of the instrument panel, directly below the radio, for F Series, and near the "brake" signal support arm for E Series.
- 1994-1999 E and F Series & 1997-1999 Expeditions and Navigators:**
The brake control's RED (stoplight) wire splices into the Ford 6-pin connector (LIGHT GREEN) wire. The connector is attached to the computer module access located just right of the steering column.
- 1999 F 250-F 350:**
The 6-pin connector is located behind the fuse panel just under the steering column (C).

- Remove fuse panel (FD), just to the right of the center 2: a vertical panel and a 6-pin connector (A).
 - There is an access hole (B) the power right corner of this panel. Feed the connector, supplied with your Tow Package, through this hole and up to the five (5) connector mounted on panel.
 - Connect the brake control's wires to the connector's pins following Tow Package Instructions.
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Specific Wiring Instructions for GM Tow Vehicles

1988-1993 S, T, G, K and G Series 1994 S, J and Suburban Series

- The brake control's RED (stoplight) wire splices into the WHITE wire on the cold side of the stoplight switch.
- 1994 C, K and G Series:**
The brake control's RED (stoplight) wire splices into the WHITE WITTIAN TRUCKER wire on the cold side of the stoplight switch.
- 1995-1996 All GM Tow Vehicles:**
The brake control's RED (stoplight) wire splices into a specific WHITE wire on the cold side of the stoplight switch. This connector is located to the left of the steering column. It is coming from the main beam of wires going into the instrument panel. The connectors WHITE and its wrapped with gray foam tape; it will have two WHITE wires exiting the connector. The correct wire is the WHITE wire located in center (F) position of the connector. Splicing into this specific wire will eliminate any problems with electrical circuits associated with ABS or the cruise control.
- 1997 GM Full Size Trucks:**
Locate the convenience center at the firewall just under the emergency brake pedal.
- Remove 6" of tape covering main beam of 20+ wires.
- You will find:
 - 3 WHITE Wires
 - 4 light gauge wires (16 GA.)
 - heavy gauge wire (14 GA.)
 - Multiple wires wrapped with YELLOW tape. (DO NOT DISTURB AIR BAG SENSOR WIRES.)
- Re-wrap remaining wires.
- Re-wrap remaining wires.

Old Style Convenience Center

- Probe the 4 light gauge wires with a test light.
 - The wire that is cold until brake pedal is depressed and does not flash with hazard flashers is dressed in the correct wire. Splice that wire into the brake control's RED (stoplight) wire.
 - Locate the convenience center at the firewall just under the emergency brake pedal.
 - At the bottom of the convenience center is a wire (the bottom row of cartons marked:
 - DRK GRN (Rectangular Shaped)
 - NAT (Square Shaped)
 - Inside the small square cavity (NAT) are two non-splice terminals. The eye de terminal on the right is the Stoplight Feed (A).
 - Connect an INSULATED USE™ female splice terminal to the brake control's RED (stoplight) wire. Connect the female splice terminal to the male terminal specified in STEP 2.
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