

## SUBJECT

**2000 TO 2002 DODGE  
ECM BYPASS**

## PART NUMBER

**C12015**

## APPLICATION

**C14000/C14000AT  
Exhaust Brakes Only**

Dodge Ram diesel trucks have a 2-second delay in activating the exhaust brake circuit. The delay is designed into the exhaust brake activation circuit of the engine ECM (pin 20).

Pacbrake has a mechanical throttle switch kit, which bypasses the engine ECM and eliminates the delay in exhaust brake activation. Manual transmission equipped vehicles require a relay be installed to disable the cruise when the exhaust brake is in use, automatic transmission equipped vehicles do not need the relay. This ECM bypass kit includes a throttle switch, relay, terminals and wire to disable the cruise control when the exhaust brake dash switch is turned on.

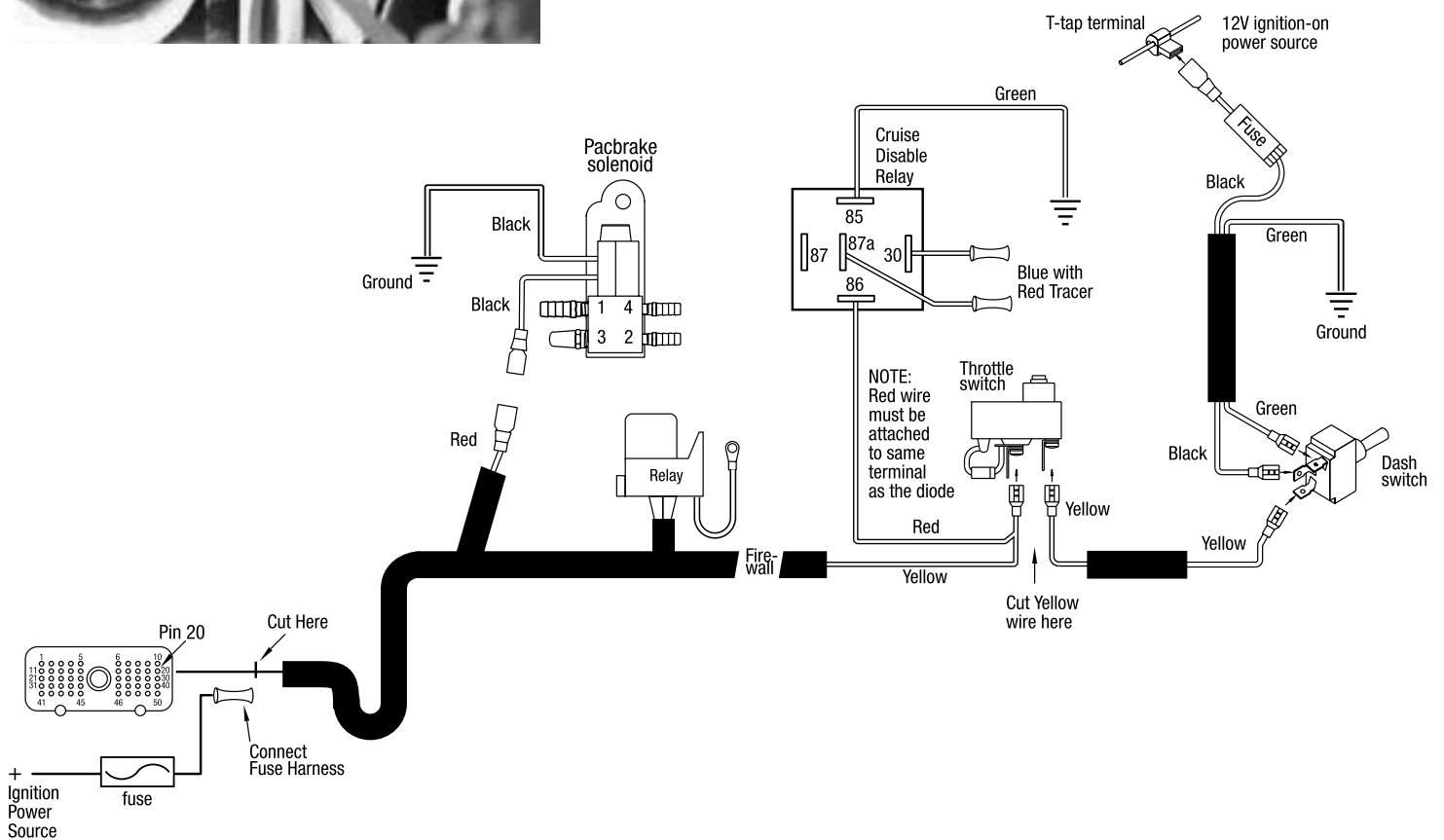
Follow the instruction steps 6, 7 and 8 below for the relay installation on manual transmission vehicles only.

- 1 At the engine ECM, locate the Pacbrake black wire in pin 20. Cut this wire at least 6" from the ECU, tape the ECU side of the wire to protect it. Route the black wire of the Pacbrake harness to a fused ignition power source.
- 2 In the cab, locate the stud shown in the photo by an arrow and remove the nut.
- 3 Install the throttle switch assembly with the switch arm horizontal and behind the throttle lever. Tighten the nut.
- 4 Adjust the throttle switch by loosening the screws and positioning it to "CLICK" as the throttle pedal returns to it's released position. Cycle the throttle pedal and listen for the "CLICK" each time the throttle returns to idle.
- 5 Locate the yellow wire originating at the Pacbrake dash switch, cut this wire and connect the switch side to the terminal at the throttle switch without the diode. Connect the other end of the yellow wire to the terminal with the diode.
- 6 At the brake light switch, locate the BLUE with RED trace wire in pin #4 of the 6 pin brake light connector. Cut this wire in a convenient location and attach the 2 red push on terminals. Connect one of the BLUE with RED trace wires on terminal 30 of the cruise relay supplied and the other on terminal 87a.
- 7 Connect the green wire supplied on terminal 85 of the cruise relay and the end with the eye terminal to a good vehicle ground.
- 8 Using the length of red wire supplied, connect one end to the Pacbrake solenoid and route the other end through the firewall to the throttle switch. Cut a short piece off the red wire, to connect the remaining terminal at the throttle switch to both the cruise relay terminal 86 and the remaining terminal at the throttle switch.

# INSTALLATION PROCEDURE



## VACUUM OPERATED EXHAUST BRAKE APPLICATION ONLY



### Testing the cruise disable relay, both manual and automatic transmission vehicles

On vehicle road test, with the Pacbrake switch in the off position set the cruise control to the desired speed. Then switch the Pacbrake switch to on, the exhaust brake should apply and the cruise control should go into coast. Then turn the Pacbrake switch to off and press resume on the cruise and the cruise should operate normally.