

OVERVIEW

The ProMaster does not have the option to get an integrated trailer brake module or a factory installed connector for aftermarket trailer brake controller installation. However, aftermarket trailer brake controllers can be installed.

Please review and become familiar with the installation instructions supplied with the trailer brake controller. These instructions will provide detailed information about the trailer brake controller. Follow their recommendations for any fuse and wire size requirements. If no wire sizes are given, use the same or larger size wire than what is on the controller.

BRAKE SWITCH CIRCUIT

The trailer brake controller typically requires an active high brake switch input. In other words, the wire from the brake switch that goes from zero volts with the service brake released to battery voltage when the service brake is pressed. That circuit is most easily accessed at the brake switch connector. The brake switch is located on the bracket above the brake pedal. See Figure 1.

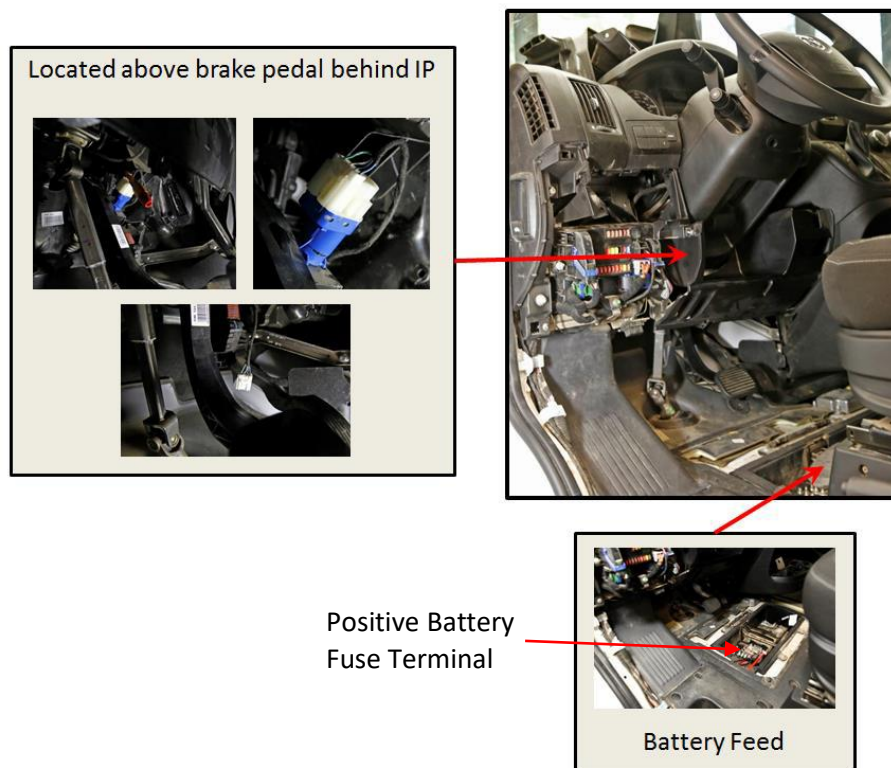


Figure 1

ProMaster Trailer Brake Controller Installation

Below, in Figure 2, are images of the brake switch connector. These are views of the wire entry side of the harness connector. The brake switch wire coming from the brake controller can have different names and wire colors depending on the manufacturer of the controller. Typically, the brake switch circuit is a smaller gage red wire called something like “stop lamp switch” or “brake switch.” Splice the wire from the trailer brake controller into the wire coming out of pin 4. It is a green wire with a white tracer.

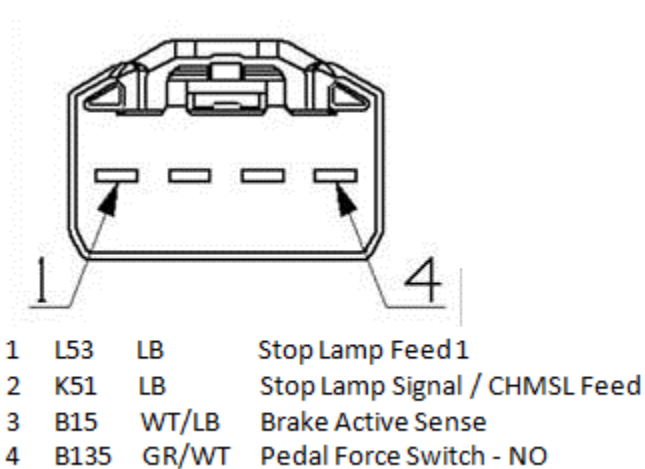


Figure 2

BATTERY FEED

A connection for the battery feed for the brake controller is most easily found on one of the terminals on the positive battery fuse terminal. See Figure 1. The best recommendation would be to connect to the fuse output (blue stud) for either F71 or F72, whichever is the least utilized. See Figure 3. F71 feeds the accessory power connector found at the base of the passenger side B pillar and F72 feeds the aux switch outputs. However, power from any other convenient location can be used providing it is capable of delivering the amount of current required by the brake controller. Once again, wire names and colors may vary depending on the brake controller manufacturer. Typically, the battery feed is a larger gage black wire. It is recommended that an auto resetting circuit breaker be used in the battery input circuit. Please see brake controller guidelines for circuit breaker rating, wire size and current requirements. Typically, this should be in the area of 25 amps and 12 AWG.

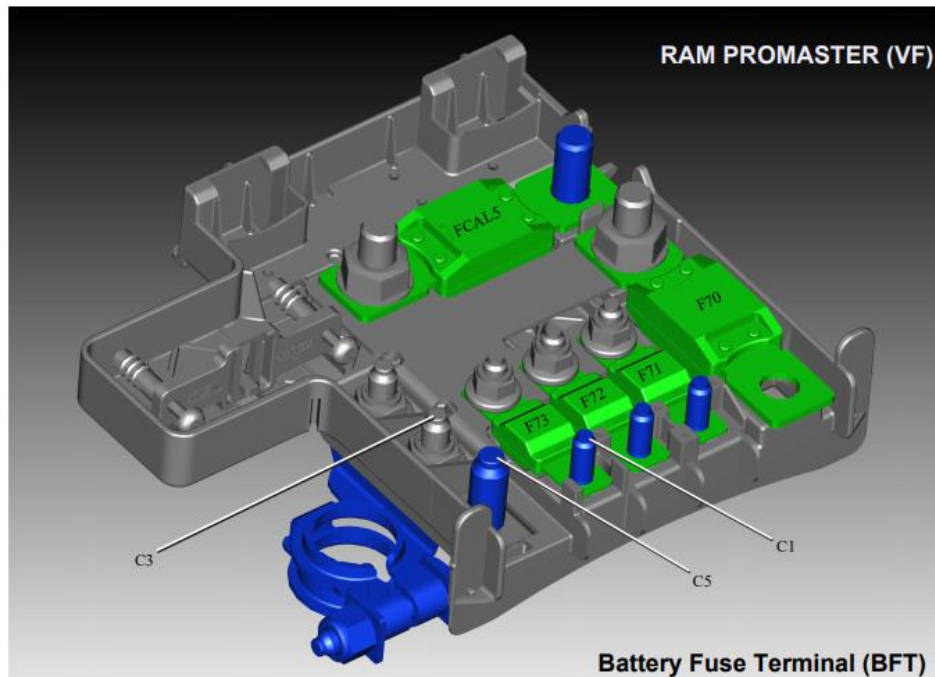


Figure 3

GROUND

A ground point for the brake controller can be any well suited chassis ground or the negative terminal of the battery. For the brake controller, this is typically a white larger gage wire. Should additional wire length be needed, use the wire size recommendations of the brake controller. Once again, this should around 12 AWG wire.

BRAKE OUTPUT

The brake output wire going from the brake controller to the trailer brakes is typically a larger gage blue wire. This circuit should be routed to one of the 2 locations in the vehicle where the trailer brake blunt cut circuit will be located. See brake controller guidelines for wire size. Typically, this should be around 12 AWG.

If the vehicle is equipped with factory trailer tow (Sales Code XFH) the brake output circuit will be located in the passenger side foot well. Remove the foot well trim panel to access the circuit. See Figure 4.



Figure 4

If the vehicle was not equipped with the factory trailer tow lighting package, there is a MOPAR kit available that will add it. The part number is 82213930AG. The kit will supply everything needed for trailer lighting including the circular 7 pin “POLLAK” trailer connector that snaps into the mounting bracket that is on the MOPAR hitch. See Figure 5.

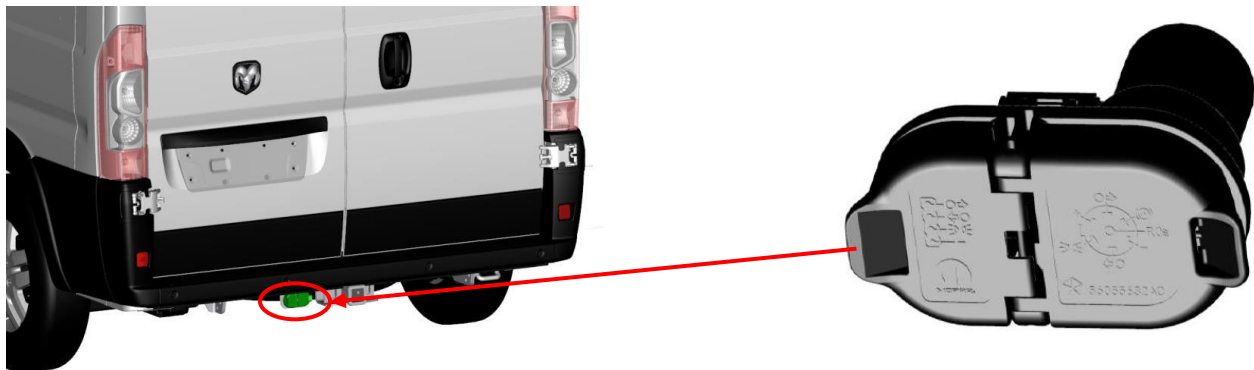


Figure 5

Once the trailer lighting harness is installed per the instructions that came with the kit, the brake output circuit will be located in the battery tray. See Figure 6.

ProMaster Trailer Brake Controller Installation

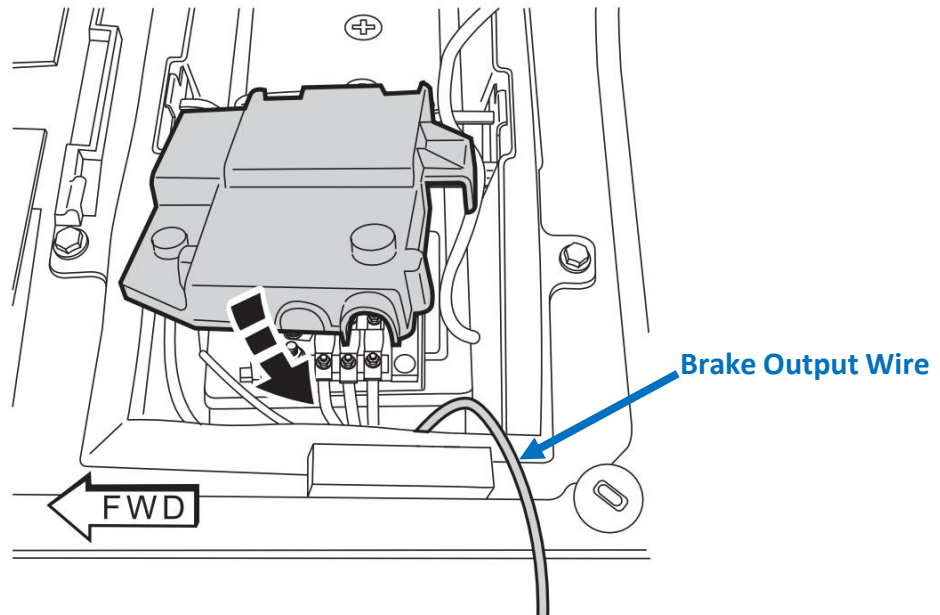


Figure 6

Connect the brake output wire of the trailer brake controller to the blue brake output wire found in one of the 2 locations in the vehicle specified above.

FINISHING UP

Mount the trailer brake controller in a convenient location somewhere near the driver. Some systems require that the brake controller be level others do not. You will want the controller to be in a location where the driver can easily access the manual trailer brake control. Mount the controller per the guidelines for the trailer brake controller.