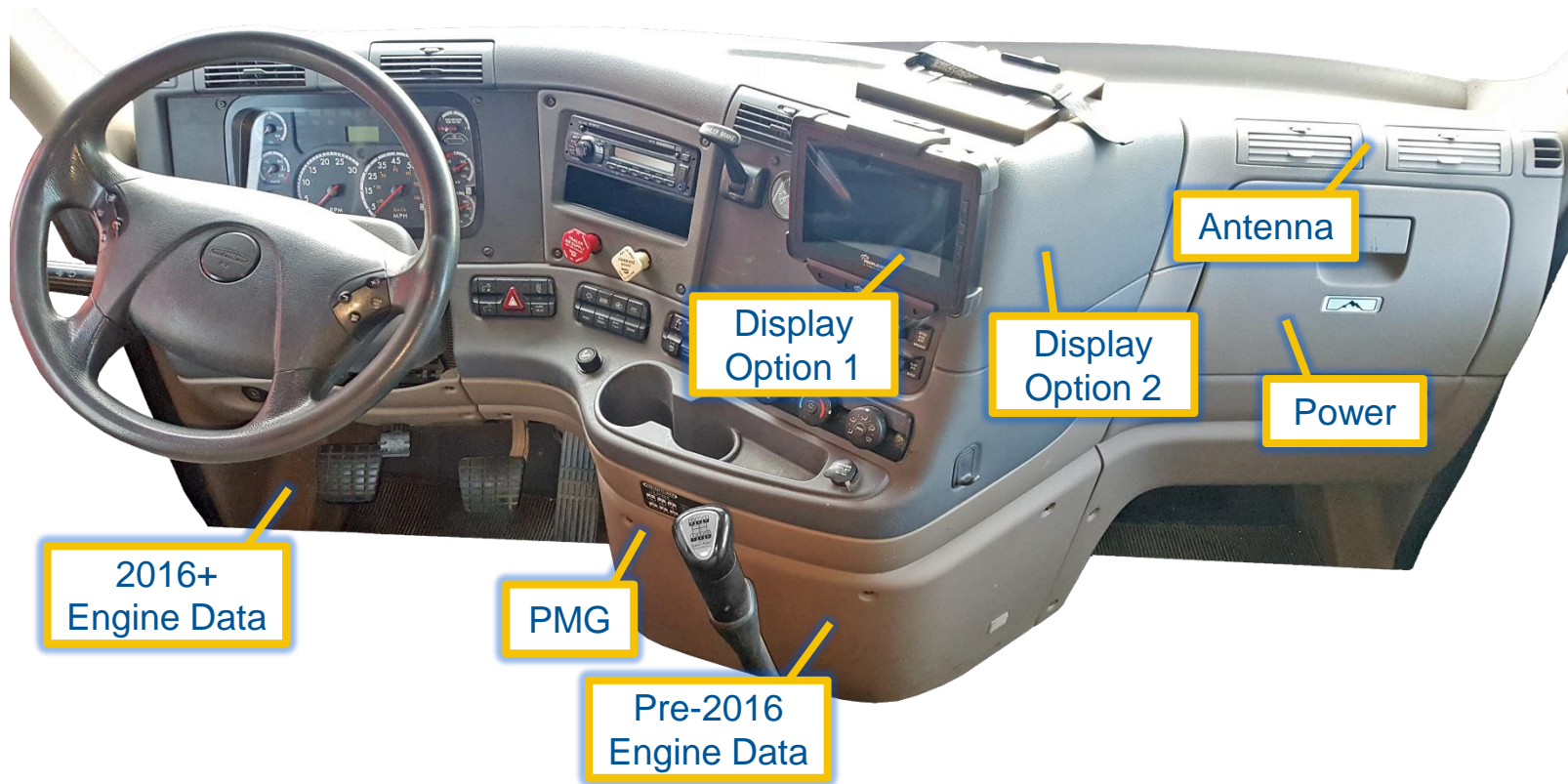


Freightliner pre-2018 Cascadia PeopleNet Mobile Gateway® Install Guide

Installation Overview



Special Parts Recommendations

Pins are needed to utilize the power spares in the dash. These can be purchased from Trimble or by searching the pin number below.

Power Connection Pin: Option 1
TE Connectivity Part 1-968851-1



This pin crimps to the Trimble Power Assembly, allowing direct connection to the vehicle power spares.

Power Connector: Option 2
Trimble Part L-016-0537



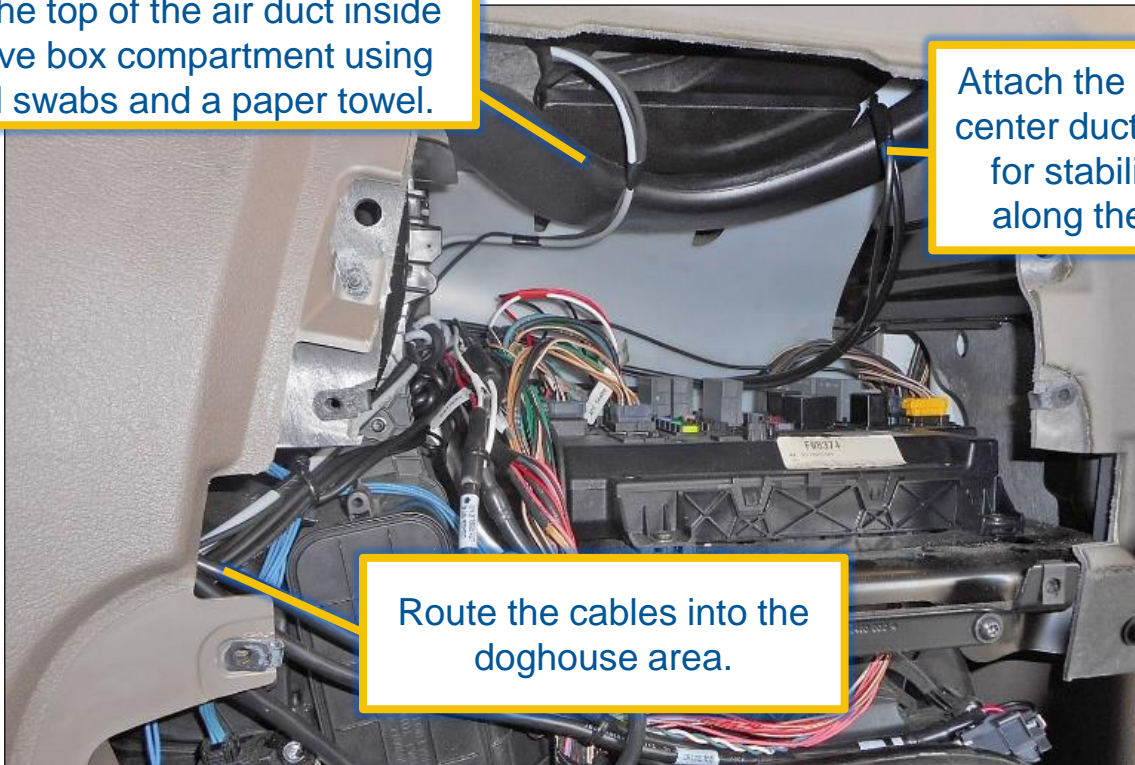
This assembly includes the same pins as Option 1 but they are already crimped to power leads. These are available from Trimble.

Antenna

Clean the top of the air duct inside the glove box compartment using alcohol swabs and a paper towel.

Attach the PMG antenna to the right center duct area. Tie the cable down for stability; then route the cable along the back of the glove box.

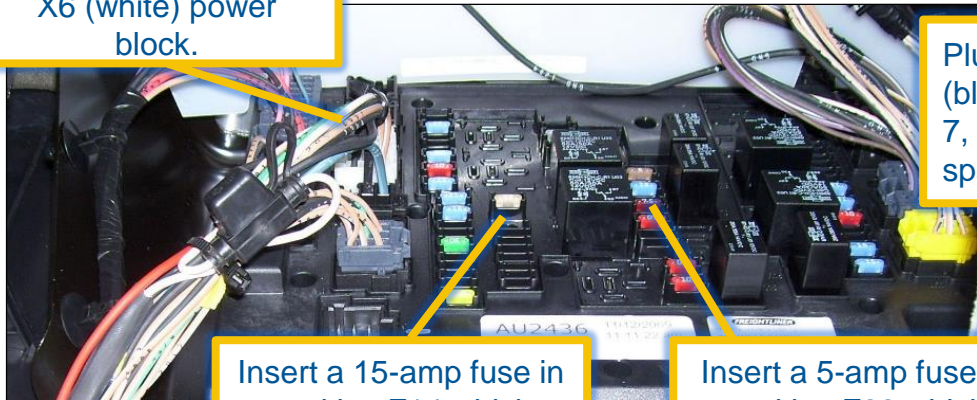
Route the cables into the doghouse area.



Power Connections

If the locations below are unavailable refer to the following page for an alternate location.

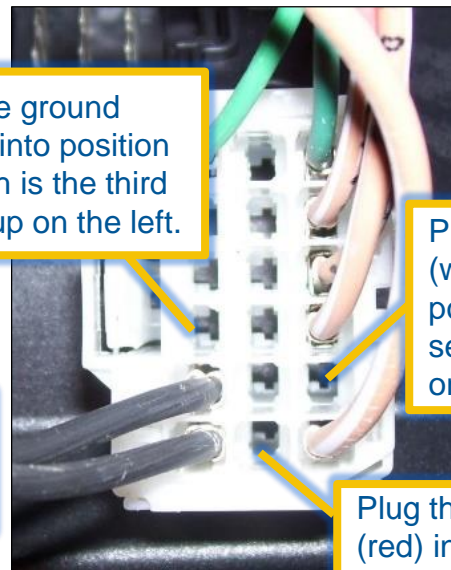
Unplug the vehicle's
X6 (white) power
block.



Insert a 15-amp fuse in
position F14 which
feeds the power port.

Insert a 5-amp fuse in
position F23 which
feeds the ignition port.

Plug the ground
(black) into position
7, which is the third
space up on the left.

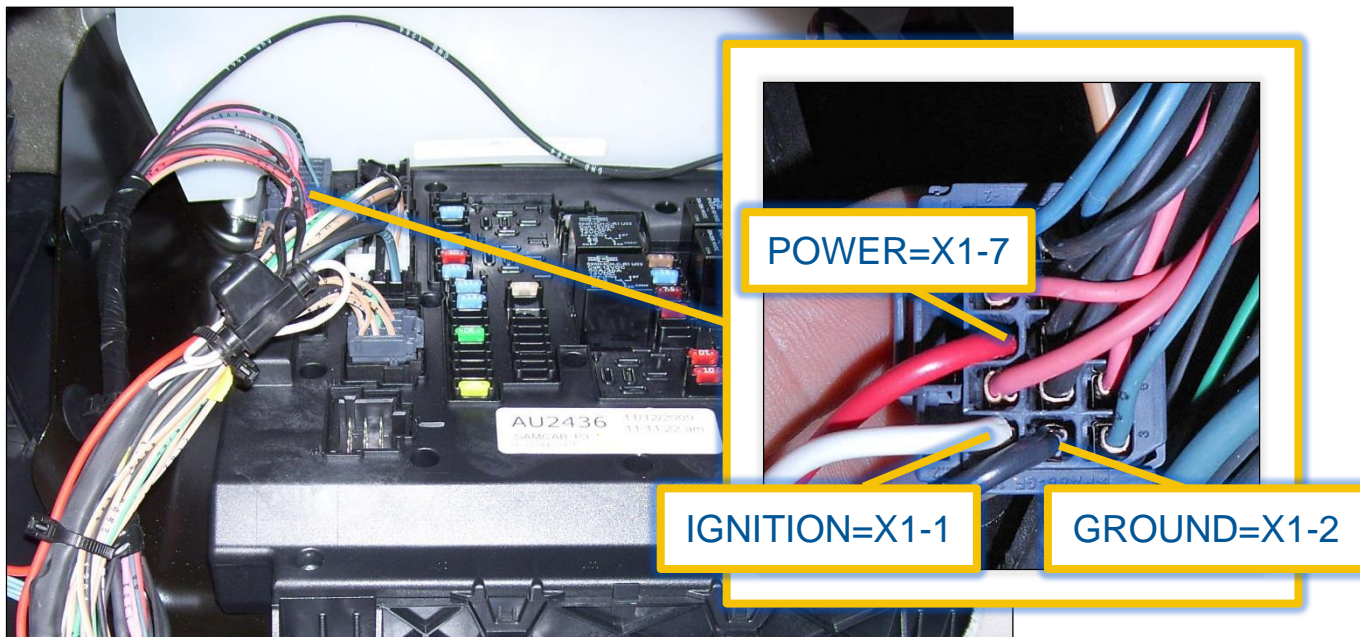


Plug the ignition
(white) into
position 6, the
second space up
on the right.

Plug the power
(red) into position 2,
the center space in
the bottom row.

Power Connections

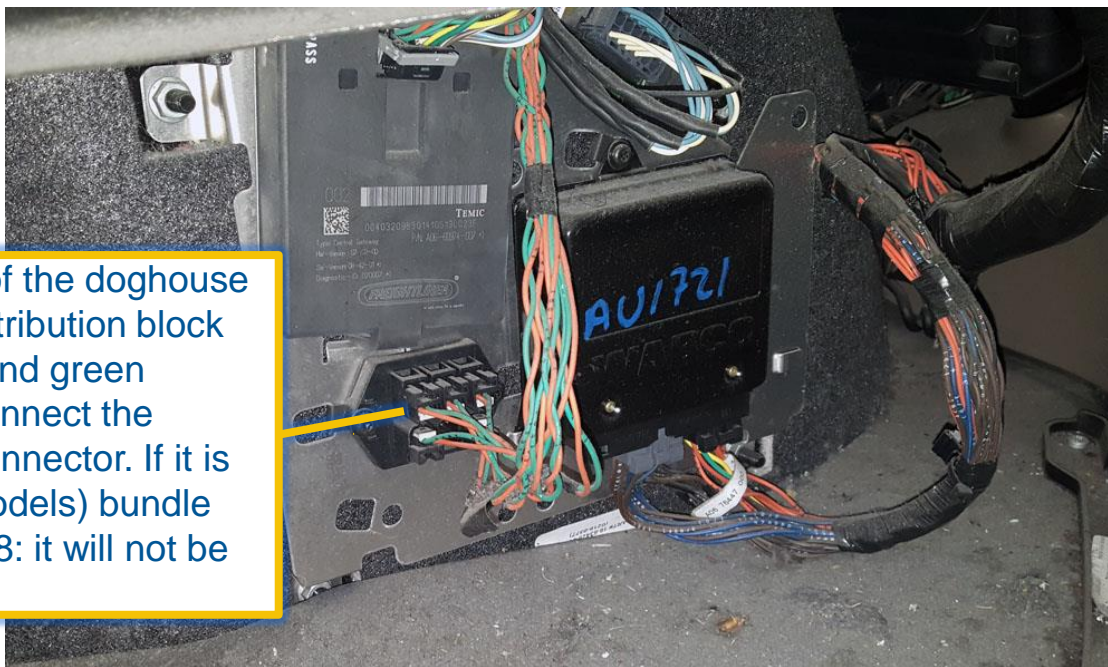
If the X6 positions from the previous page are unavailable, use these positions from X1, which is the connector on the driver's side forward of the panel.



J1708 Data Connection

The J1708 signal line was the original primary data circuit. It was phased out over time but should be connected any time the distribution block is available as a complement and backup to the newer J1939 circuit.

Check the left side of the doghouse area for a J1708 distribution block (black with orange and green wires.) If present, connect the PMG/MBA J1708 connector. If it is not present (later models) bundle the PMG/MBA J1708: it will not be used.



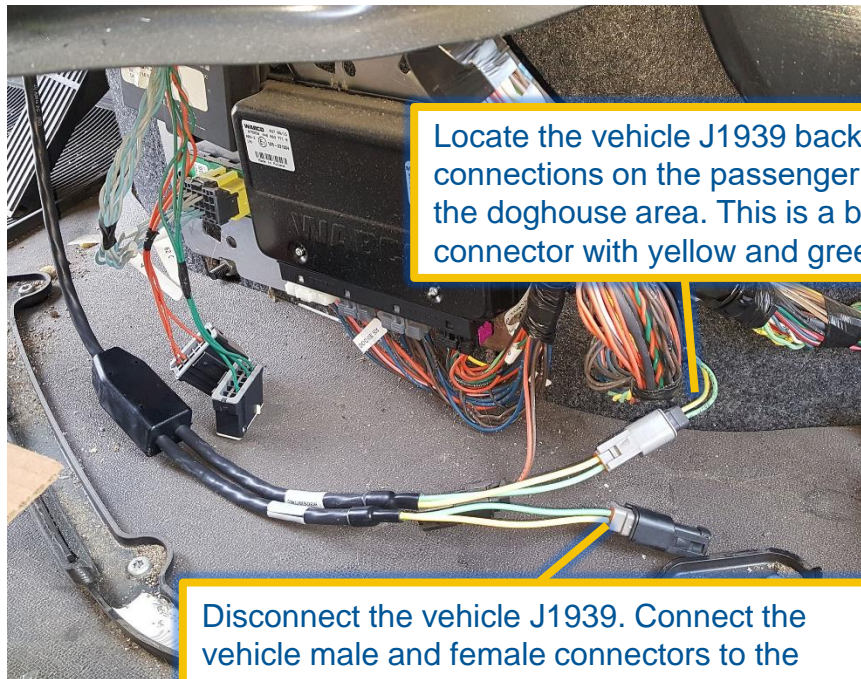
J1939 Data Connection: pre-2016

NOTE: there may be multiple vehicle J1939 connectors available in the noted location. Any of those can be used.

Replace the orange guide pins in the PMG J1939 connectors with the black guide pins from the L-016-0153 kit.



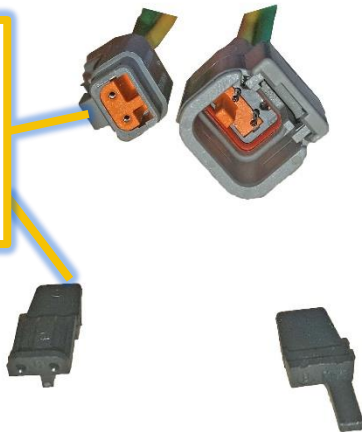
Locate the vehicle J1939 backbone connections on the passenger's side of the doghouse area. This is a black connector with yellow and green wires.



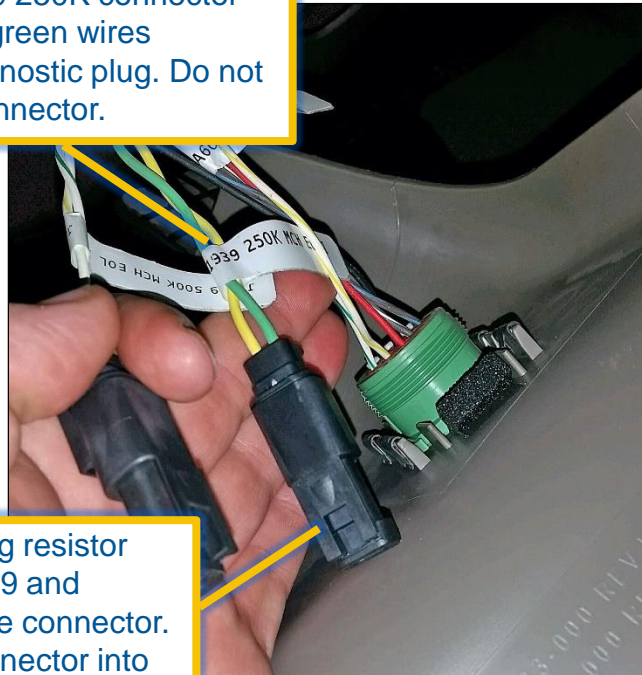
Disconnect the vehicle J1939. Connect the vehicle male and female connectors to the PeopleNet female and male connectors.

J1939 Data Connection: Years 2016+

Replace the orange guide pins in the PMG J1939 connectors with the black guide pins from the L-016-0153 kit.



Locate the J1939 250K connector with yellow and green wires beneath the diagnostic plug. Do not use the 500K connector.



Disconnect the terminating resistor cap from the vehicle J1939 and connect it to the PMGmale connector. Plug the vehicle male connector into the PMG female, creating a full circuit.

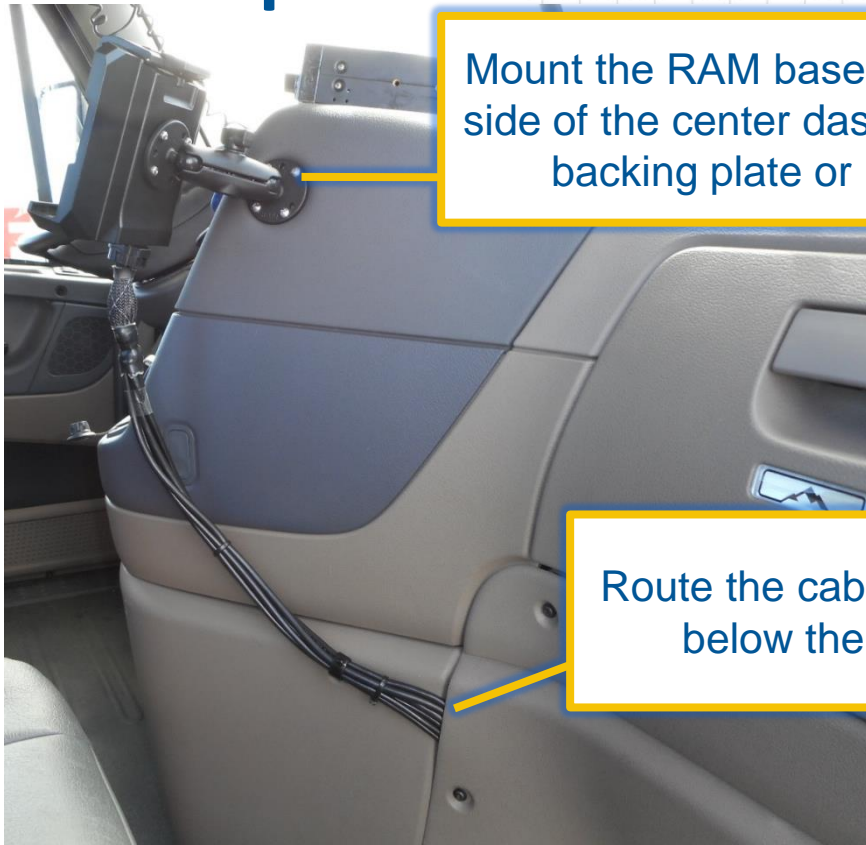
Display Mount Option 1



Mount the RAM base to the rectangular dash piece using 4 bolts with large washers.

Drill a 1" hole in the plate for the display cable or route it into the dash below the glove box.

Display Mount Option 2



PMG Mount

Mount the PMG in the doghouse area using 2-sided tape and/ties, depending on the layout, making sure the module is off the floor.

Secure the PMG cables, making sure there's no tension on the connectors.

