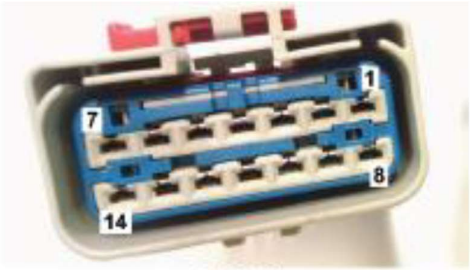
Cascadia Wiring

Revision A – Thursday, 1sh April, 2021
Note: All specifications *are subject to* change *without* notice

Third (3rd) Party Accessory Connector

The RP1226 vehicle accessory connector is a standardised non-OEM specific vehicle accessory connector. This connector allows aftermarket electronic devices to access the vehicle databus, 12V power and ground. The connectors will source serial data from the J1939 databus backbone.

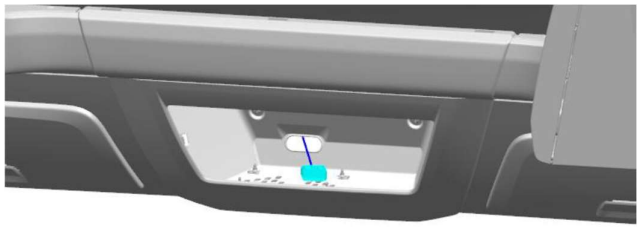


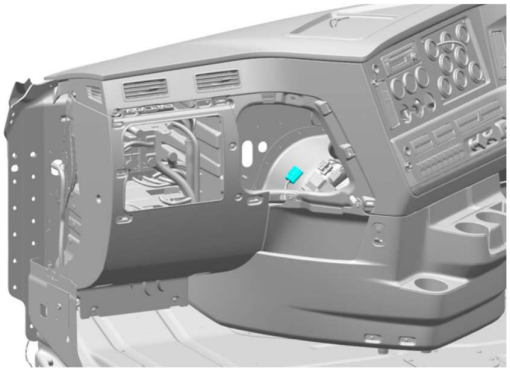
OEM side

Vendor side

Pin #	Signal	Signal Function	Comments
1	SW_BATT	Switched Battery	+12VDC if switched to ON position, floating if not. Fused to 10A (shared between both accessory connectors)
2	CAN_1_H	CAN 1 High	J1939 – 500K High
3	RES1	Reserved 1	Unconnected
4	CAN_2_H	CAN 2 High	Unconnected
5	OEM1	OEM Reserved 1	Unconnected
6	J1708+	J1708+	Unconnected
7	IGN	Ignition	+12VDC if switched to IGN position, floating if not. Fused to 10A (shared between both accessory connectors)
8	GND	Ground	Electrical ground
9	CAN_1_L	CAN 1 Low	J1939 – 500K Low
10	RES2	Reserved 2	Unconnected
11	CAN_2_L	CAN 2 Low	Unconnected
12	OEM2	OEM Reserved 2	Unconnected
13	J1708-	J1708-	Unconnected
14	BATT	Battery	+12VDC Continuous. Fused to 10A (shared between both accessory connectors)

There will be two RP1226 accessory connectors. One of these will be in the overhead console, with the other behind the dash B-panel.

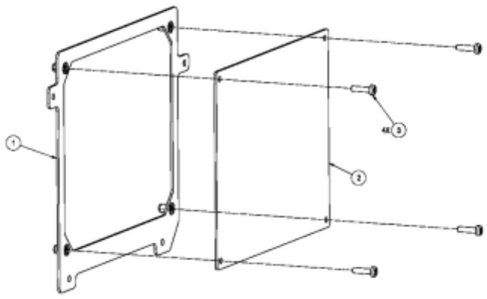




The accessory side connector is available to order through the Daimler Truck and Bus Australia Pacific parts department.

Part		Part Number	Quantity Required
Connector		FCI 54201416	1 per connector
Terminals	0.5-0.8mm^2	FCI 10762775	Up to 6 per connector Quantity depends on circuits required Size depends on wire gauge
	1-2mm^2	23-13211-011	

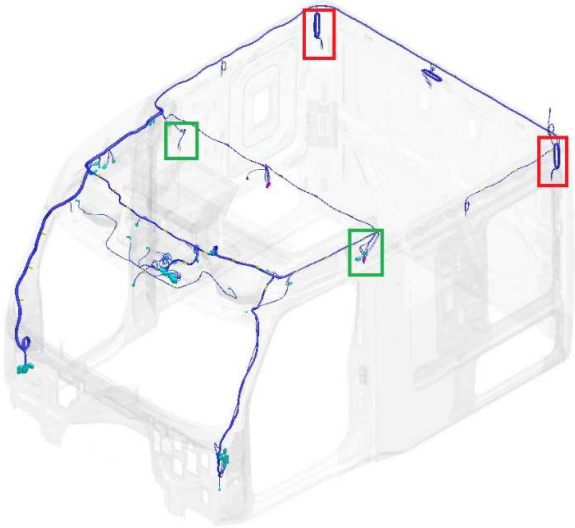
Cascadia's can be ordered with a blank aluminium dash panel. This will allow customers to fit their own telematics display unit (if they would like to). This is easy to modify to suit various telematics devices.



Beacon Lights

A dash mounted switch for beacon lights will be in every Cascadia. The wiring for the beacon lights will be routed overhead along the roof, terminating at the back wall. To gain access to the wiring, the

respective interior panels need to be removed. There are no provisions for cab pass-throughs. As a result, holes and grommets will need to be drilled and applied.

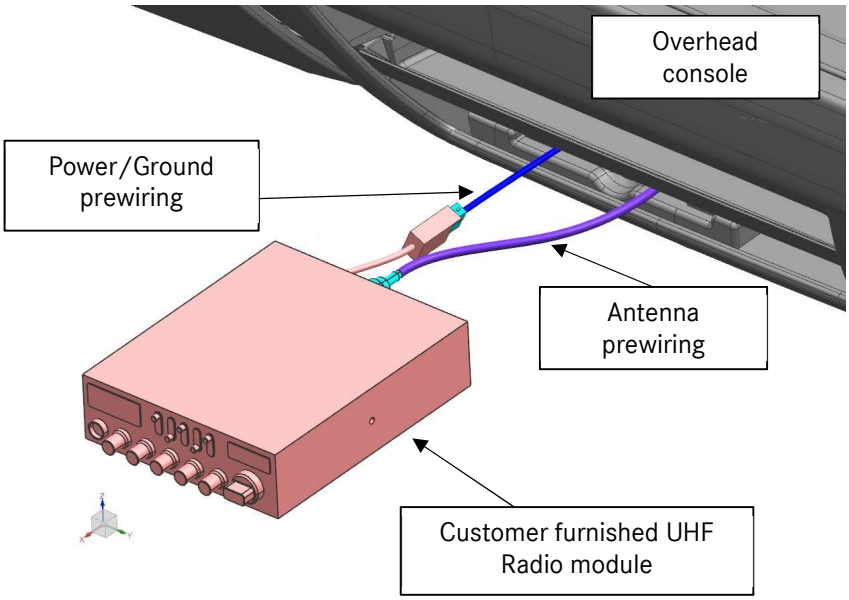


= The terminating location for sleeper cabs

= The terminating location for day cabs

The terminating ends will be blunt cut 1mm^2 wires with heat shrink applied.
The components of this circuity is rated to 10A (shared between both LHS and RHS).

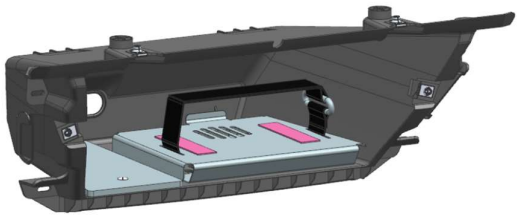
UHF Radios



Prewiring for UHF radios will be routed into the overhead console. There will be wiring for power, ground and the antenna connection. A mounting plate provided will also be provided.

- Power and Ground
  - Fused to 25A (VPDM J6/B2)
  - 1mm^2 wire
  - Wires will be terminated with inline splice connector, accepts 14-16AWG (1-2mm^2) wire

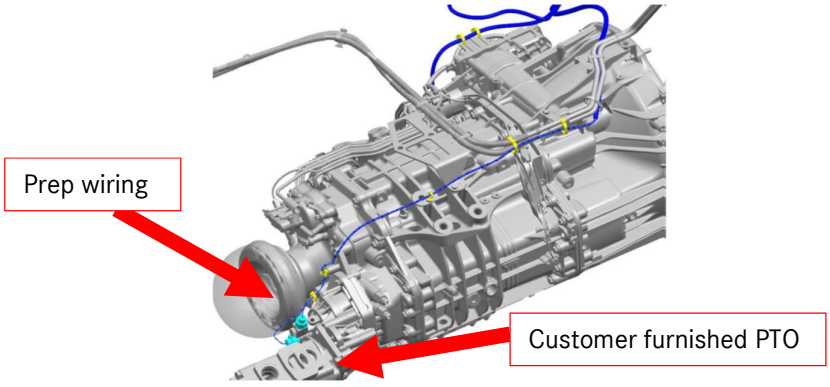
- Antenna
  - To radio module
    - PL259 connector
  - To antenna
    - Mini-UHF male connector
    - Routed to external LH B-Pillar
    - **<u>Important note:</u>** The existing antenna is for CB radios. Remove and replace with the UHF antenna
- Mounting plate
  - A mounting plate with rubber pads will be provided on the bottom shelf of the overhead console. The UHF module can be tightened down with a strap



PTO Prep Kit

This kit will provide a single dash mounted switch. This will actuate a switch and solenoid mounted on the rear of the DT12 Transmission.

Various PTO settings can be altered with the parameters.



Driving lamps

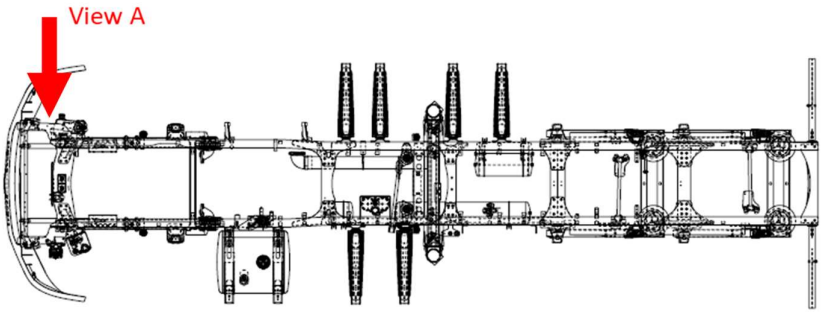
Prewiring for customer furnished driving lamps are available as an option.

To identify whether or not this option has been selected on your vehicle, look for an ‘AUX HIGH’ switch on the dash.

If the switch is present, the wiring will already be routed towards the front of the chassis. You should be able to find two connectors bundled right behind the bumper.

This wiring is limited to a 4.5A capacity per side.

The connector is designed to plug into factory fog lamps, there is no matching connector available. Please replace this connector with the connector of your choice.



Left: View A of the plug and front bumper bracket
Right: Overview of location